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Identification_Information:
        Citation:
                Citation_Information:
                        Originator: James S. Richmond(comp.)
                        Originator: SFWMD(ed.)
                        Publication_Date: Unknown
                        Publication_Time: Unknown
                        Title: Souther Golden Gate Estates Restoration - Monitoring Well Survey
                        Edition: 1
                        Series_Information:
                        Publication_Information:
                                Publication_Place: Not published
                                Publisher: None
                        Online_Linkage: jsrsmtinc@earthlink.net
                        Larger_Work_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
        Description:
                Abstract:
                        South Florida Water Management District
                        Southern Golden Gate Estates Water Monitoring Wells
                Purpose:
                        To establish NAVD 88 / NGVD 29 elevations
                        on SFWMD Water Monitoring Wells
                        Also establish a nearby site benchmark or temporary
                        benchmark for each Well.
        Time_Period_of_Content:
                Time_Period_Information:
                        Single_Date/Time:
                                Calendar_Date: 20041220
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
                Currentness_Reference: Date of Field Work
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -81°35'12.74"
                        East_Bounding_Coordinate: -81°26'28.35"
                        North_Bounding_Coordinate: 26°08'49.83"
                        South_Bounding_Coordinate: 26°00'12.80"
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Record Survey
                        Theme_Keyword: Southern Golden Gate Estates Monitoring Wells
                Place:
                Stratum:
                Temporal:
        Access_Constraints:
                Access to the wells is through a Pad Lock.
                The Keys to these Locks are owned by SFWMD.
        Use_Constraints: None
        Point_of_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Elvie D. Ebanks
                                Contact_Organization: South Florida Water Management District
                        Contact_Organization_Primary:
                        Contact_Position: Professional Surveyor & Mapper
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address: 8894 Belvedere Road
                                City: West Palm Beach
                                State_or_Province: Florida
                                Postal_Code: 33411
                                Country: USA
                        Contact_Voice_Telephone: (561) 686-8800, Ext. 4717
                        Contact_Facsimile_Telephone: (561) 791-4093
                        Contact_Electronic_Mail_Address: eebanks@sfwmd.gov
```

James S. Richmond
Southern Mapping
Technology Inc.

Purpose

Survey Date

Last Field Date 16-dec-04 (FB65 Page 44)

Elvie Ebanks
SFWMD

```
                        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:
                        This survey was prepared using GPS and Leveling
                        instruments. The horizontal location of the monitoring
                        equipment and benchmark was performed using GPS.
                        The vertical data was collected using a Trimble Dini
                        22 digital level.
                        Coordinates are based on the Florida State Plane
                        Coordinate System, West Zone, NAD 83/99.
                        Elevations are based on NAVD 88 and NGVD 29.
        Logical_Consistency_Report:
                Horizontal data was established using WAAS.
                Vertical data was established using the following
                50281829247
                51280629248
                51283019249
                H598
                J598
                L598
                P598
                R598
                Coll0026
        Completeness_Report:
                Horizontal and Vertical locations were taken on top of
                each Bench Mark.
                The Elevations on the wells were taken in each Well Case
                on the top of a PVC pipe, on a Ink mark that was
                previously made by SFWMD.
        Positional_Accuracy:
                Horizontal_Positional_Accuracy:
                        Horizontal_Positional_Accuracy_Report:
                                The Horizontal positions of the Benchmarks were
                                established using a Trimble 5800 GPS in WAAS mode.
                        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:
                        Vertical_Positional_Accuracy_Report:
                                The Elevations were conducted with a Trimble DiNi 22
                                Digital Level.
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: Third Order Level Runs
                                Vertical_Positional_Accuracy_Explanation: This Survey requires
Level Runs to meet third order
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                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 a Trimble GPS
                                5800 unit. WAAS methodology was used.
                                The level line was performed using a Trimble Dini 22 digital
```

Equipment Used

Horizontal

Level Line

```
                                level.
                        Process_Date: 20050103
                        Process_Contact:
                                Contact_Information:
                                        Contact_Person_Primary:
                                        Contact_Organization_Primary:
                                        Contact_Address:
Spatial_Data_Organization_Information:
        Spatial_Reference_Information:
                Horizontal_Coordinate_System_Definition:
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                        Planar:
                                Map_Projection:
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                                        Azimuthal_Equidistant:
                                        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:
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                                        Distance_and_Bearing_Representation:
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                        Geodetic_Model:
                Vertical_Coordinate_System_Definition:
                        Altitude_System_Definition:
                        Depth_System_Definition:
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                        Attribute_Domain_Values:
                        Attribute_Value_Accuracy_Information:
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                        Contact_Person_Primary:
                        Contact_Organization_Primary:
                        Contact_Address:
```

```
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                                                Dialup_Instructions:
                                OffLine_Option:
                                        Recording_Capacity:
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                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
Metadata_Reference_Information:
        Metadata_Date: 20050103
        Metadata_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Jim S. Richmond
                                Contact_Organization: Southern Mapping Technology, INC.
                        Contact_Organization_Primary:
                        Contact_Position: Project Surveyor
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address:
                                        4376 Corporate Square
                                        No. 1
                                City: Naples
                                State_or_Province: Florida
                                Postal_Code: 34104
                                Country: USA
                        Contact_Voice_Telephone: (239) 643-2911
                        Contact_Facsimile_Telephone: (239) 263-9099
                        Contact_Electronic_Mail_Address: jsrsmtinc@earthlink.net
                        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_Security_Information:
```

```
Identification_Information:
        Citation:
                Citation_Information:
                        Originator: James S. Richmond(comp.)
                        Originator: SFWMD(ed.)
                        Publication_Date: Unknown
                        Publication_Time: Unknown
                        Title: Souther Golden Gate Estates Restoration - Monitoring Well Survey
                        Edition: 1
                        Series_Information:
                        Publication_Information:
                                Publication_Place: Not published
                                Publisher: None
                        Online_Linkage: jsrsmtinc@earthlink.net
                        Larger_Work_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
        Description:
                Abstract:
                        South Florida Water Management District
                        Southern Golden Gate Estates Water Monitoring Wells
                Purpose:
                        To establish NAVD 88 / NGVD 29 elevations
                        on SFWMD Water Monitoring Wells
                        Also establish a nearby site benchmark or temporary
                        benchmark for each Well.
        Time_Period_of_Content:
                Time_Period_Information:
                        Single_Date/Time:
                                Calendar_Date: 20041220
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
                Currentness_Reference: Date of Field Work
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -81°35'12.74"
                        East_Bounding_Coordinate: -81°26'28.35"
                        North_Bounding_Coordinate: 26°08'49.83"
                        South_Bounding_Coordinate: 26°00'12.80"
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Record Survey
                        Theme_Keyword: Southern Golden Gate Estates Monitoring Wells
                Place:
                Stratum:
                Temporal:
        Access_Constraints:
                Access to the wells is through a Pad Lock.
                The Keys to these Locks are owned by SFWMD.
        Use_Constraints: None
        Point_of_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Elvie D. Ebanks
                                Contact_Organization: South Florida Water Management District
                        Contact_Organization_Primary:
                        Contact_Position: Professional Surveyor & Mapper
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address: 8894 Belvedere Road
                                City: West Palm Beach
                                State_or_Province: Florida
                                Postal_Code: 33411
                                Country: USA
                        Contact_Voice_Telephone: (561) 686-8800, Ext. 4717
                        Contact_Facsimile_Telephone: (561) 791-4093
                        Contact_Electronic_Mail_Address: eebanks@sfwmd.gov
```

**James S. Richmond**
**Southern Mapping Technology Inc.**

**Purpose**

**Survey Date**

**Elvie Ebanks**
**SFWMD**

```
                        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 location of the monitoring
                        equipment and benchmark was performed using GPS.
                        The vertical data was collected using a Trimble Dini
                        22 digital level.
                        Coordinates are based on the Florida State Plane
                        Coordinate System, West Zone, NAD 83/99.
                        Elevations are based on NAVD 88 and NGVD 29.
        Logical_Consistency_Report:
                Horizontal data was established using WAAS.
                Vertical data was established using the following
                50281829247
                51280629248
                51283019249
                H598
                J598
                L598
                P598
                R598
                Coll0026
        Completeness_Report:
```

**Project Results**

```
                Horizontal and Vertical locations were taken on top of
                each Bench Mark.
                The Elevations on the wells were taken in each Well Case
                on the top of a PVC pipe, on a Ink mark that was
                previously made by SFWMD.
        Positional_Accuracy:
                Horizontal_Positional_Accuracy:
```

**Horizontal**

```
                        Horizontal_Positional_Accuracy_Report:
                                The Horizontal positions of the Benchmarks were
                                established using a Trimble 5800 GPS in WAAS mode.
                        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:
                                The Elevations were conducted with a Trimble DiNi 22
                                Digital Level.
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: Third Order Level Runs
                                Vertical_Positional_Accuracy_Explanation: This Survey requires
Level Runs to meet third order
        Lineage:
                Source_Information:
                        Source_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
                                        Larger_Work_Citation:
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                                                        Publication_Information:
                        Source_Time_Period_of_Content:
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                                        Single_Date/Time:
                                        Range_of_Dates/Times:
                                        Multiple_Dates/Times:
                Process_Step:
                        Process_Description:
                                The horizontal work was performed using a Trimble GPS
                                5800 unit. WAAS methodology was used.
                                The level line was performed using a Trimble Dini 22 digital
```

```
                                        level.
                                Process_Date: 20050103
                                Process_Contact:
                                        Contact_Information:
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                                                Contact_Organization_Primary:
                                                Contact_Address:
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                        Planar:
                                Map_Projection:
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                                        Azimuthal_Equidistant:
                                        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:
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                                        Universal_Polar_Stereographic:
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                                        State_Plane_Coordinate_System:
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                                                Oblique_Mercator:
                                                        Oblique_Line_Point:
                                                Polyconic:
                                        ARC_Coordinate_System:
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                                        Distance_and_Bearing_Representation:
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                        Geodetic_Model:
                Vertical_Coordinate_System_Definition:
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Distribution_Information:
        Distributor:
                Contact_Information:
                        Contact_Person_Primary:
                        Contact_Organization_Primary:
                        Contact_Address:
```

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        Standard_Order_Process:
                Digital_Form:
                        Digital_Transfer_Information:
                        Digital_Transfer_Option:
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                                                Network_Address:
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                                OffLine_Option:
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                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
Metadata_Reference_Information:
        Metadata_Date: 20050103
        Metadata_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Jim S. Richmond
                                Contact_Organization: Southern Mapping Technology, INC.
                        Contact_Organization_Primary:
                        Contact_Position: Project Surveyor
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address:
                                        4376 Corporate Square
                                        No. 1
                                City: Naples
                                State_or_Province: Florida
                                Postal_Code: 34104
                                Country: USA
                        Contact_Voice_Telephone: (239) 643-2911
                        Contact_Facsimile_Telephone: (239) 263-9099
                        Contact_Electronic_Mail_Address: jsrsmtinc@earthlink.net
                        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_Security_Information:
```

03041 13 OCT 04
SFWMD
SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL BENCH MARKS

WELL NO. SGT 1 W5

BENCHMARK - ALUMINUM DISK SET IN
CAP ROCK
SPC 658 030 N
502 053 E

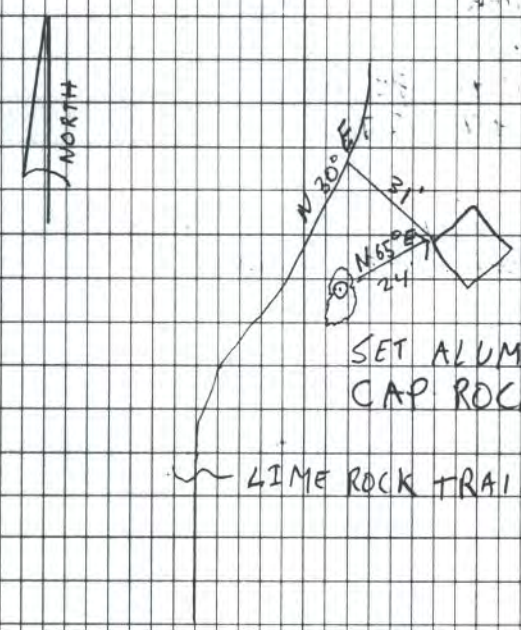
THE STEM OF THE ALUMINUM DISK IS INSERTED INTO A HOLE DRILLED IN THE TOP OF A CAP ROCK AN ANCHOR CEMENT IS USED TO ADHERE THE DISK TO THE ROCK

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.59 | | | | |
| WELL | | | 0.50 | | |
| | 0.42 | | | | |
| S.S. | | | 4.15 | | DISK ON PAD |
| BM | | | 4.51 | | |

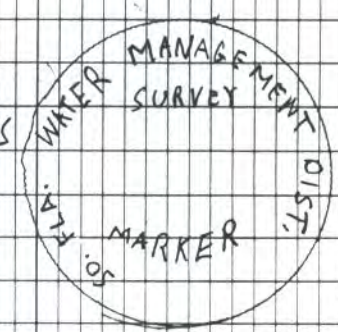
PHOTO 874

D. RICHMOND 65/01
F. LEWIS
E. BLAND

SPC = STATE PLANE COORDINATES
BM = BENCH MARK
SS = SIDE SHOT ELEV.




ALUM DISK SET IN
BENCH MARK MONUMENTS



03041 13 OCT 04
SFWMD
SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL

WELL NO. SGT 2W4

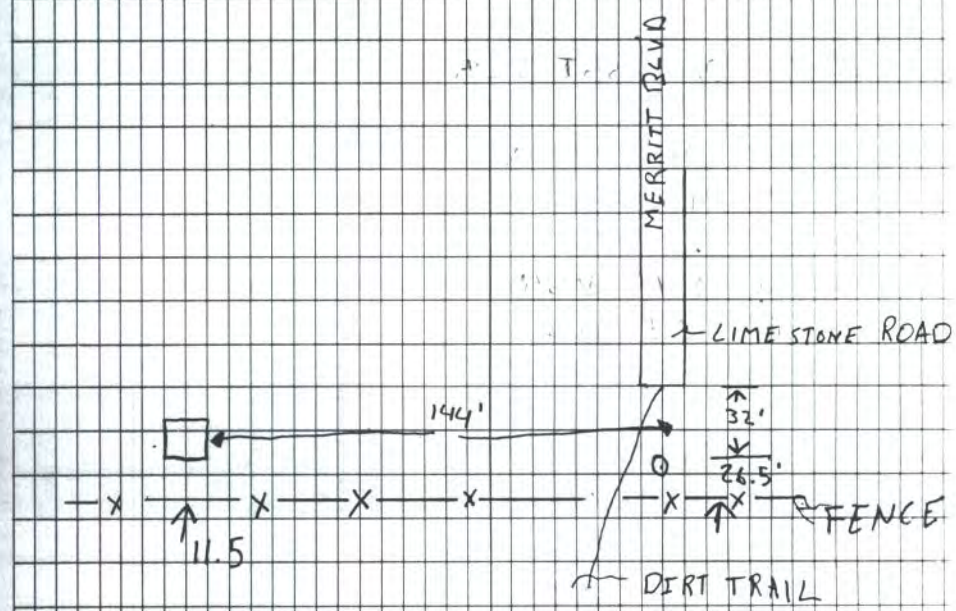
BENCH MARK - ALUM DISK SET IN
CAP ROCK

SPC N 645 804
E 493 373

| STA. | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.20 | | | | |
| WELL | | | 0.51 | | |
| | 0.43 | | | | |
| S.S. | | | 4.39 | | DISK ON PAD |
| BM | | | 4.12 | | |

PHOTO 873





03041 CONT. 13 OCT 04
SFWMD

WELL NO. SGT 2W5

BENCH MARK: SET ALUM. DISK IN POURED IN PLACE CONCRETE MONUMENT AT NORTH EDGE OF 70 AVE. S.E 0.2 MILE EAST OF PATTERSON BLVD.

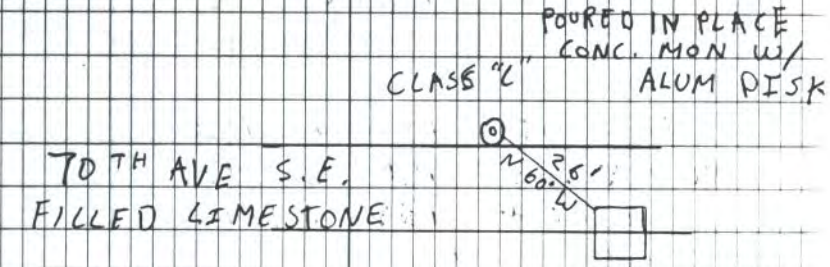
SPC. 645 966
499 850

ADDED "DEEPONE" MAGNET

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 5.15 | | | |
| WELL | | | 0.12 | |
| | 0.05 | | | |
| BM. | | | 5.08 | |

PHOTO 875






DISK IN PAD IS RECESSED UNTIL ABLE TO GET ELEVATION

03041 CONT. 13 OCT 04
SFWMD

WELL NO SGT 2W6

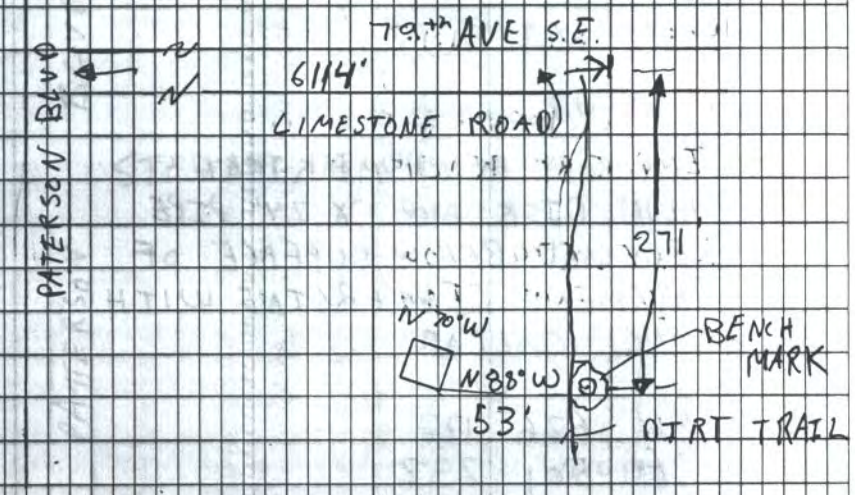
BENCH MARK - SET ALUM. DISC
IN CAP ROCK

SPC: N 639 795
E 504 936

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 4.96 | | | |
| WELL | | | 0.12 | |
| | 0.28 | | | |
| SS | | | 4.42 | |
| BM | | | 5.12 | |

PHOTO 876

65/04



03 041 CONT 13 OCT 04

WELL SGT 3W5

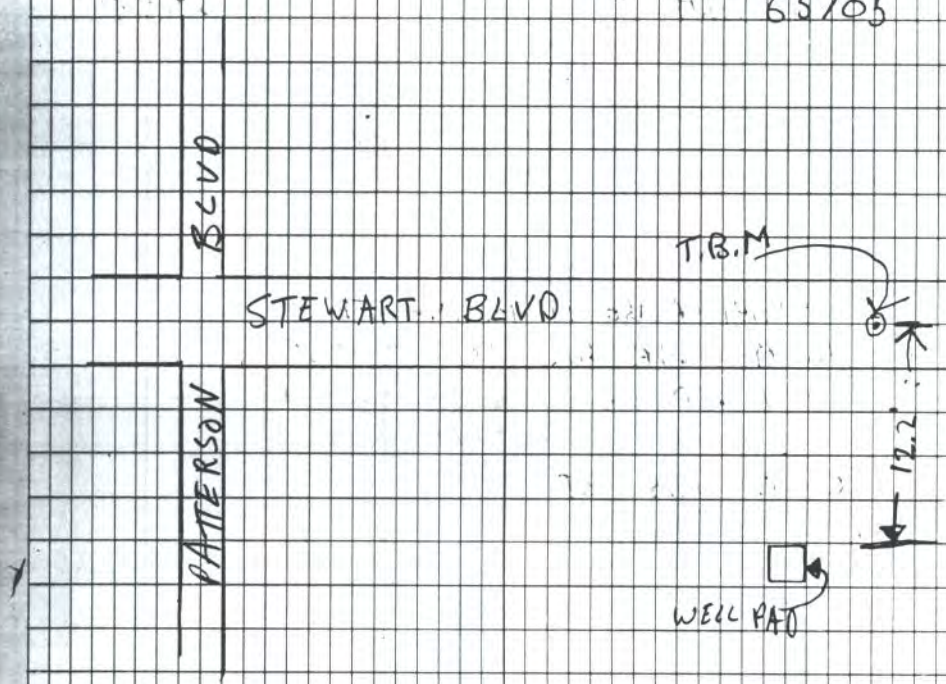
TEMPORARY BENCH MARK SET
ALUM. DISK ATOP "X 24" PIPE
RECESSED BELOW SURFACE OF
PAVEMENT CENTERLINE WITH
CONC. COLLAR

| | | | |
|---|---|---|---|
| SPC | N | 626 | 172 |
| | E | 501 | 232 |

| STA | BS | HI | FS | ELEV |
|---|---|---|---|---|
| TBM | | | | |
| | 3.83 | | | |
| WELL | | | 0.00 | |
| | 0.11 | | | |
| SS | | | 3.98 | |
| TBM | | | 3.94 | |

PHOTO 878

65/05



63041 CONT. 14 OCT 04

SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL BENCH MARKS

WELL NO. SGT 1W1

BENCH MARK - SET ALUM DISC
IN POURED IN PLACE CLASS "C"
CONC. MON

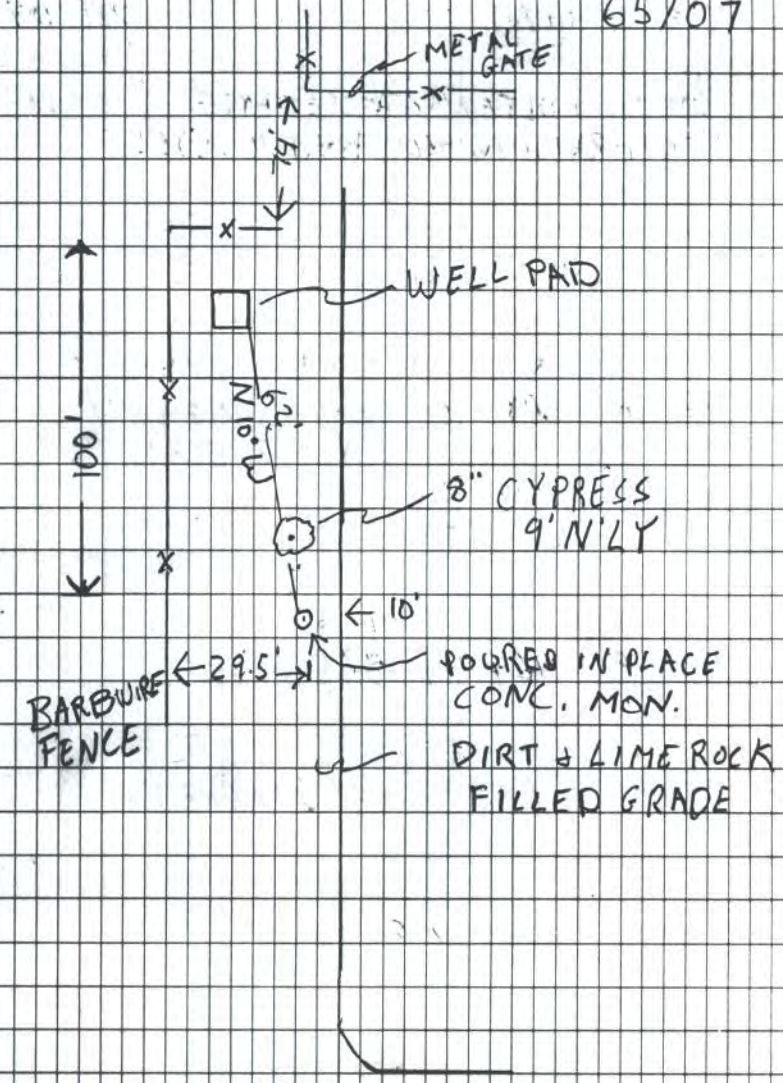
| | | | |
|---|---|---|---|
| SPC | N | 659 | 092 |
| | E | 466 | 136 |

ADDED "DEEP ONE" MAG NET

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 4.52 | | | |
| WELL | | | 0.04 | |
| | 0.17 | | | |
| BM | | | 4.65 | |

PHOTO 870

65/07



03041 CONT. 14 OCT 04

SOUTH GOLDEN GATE ESTATES
RESTORATION MONITORING WELL
BENCH MARKS

WELL NO. SGT 1W2

BENCH MARK - SET ALUM. DISC IN
TOP OF POURED IN PLACE CLASS "C"
CONC. MON

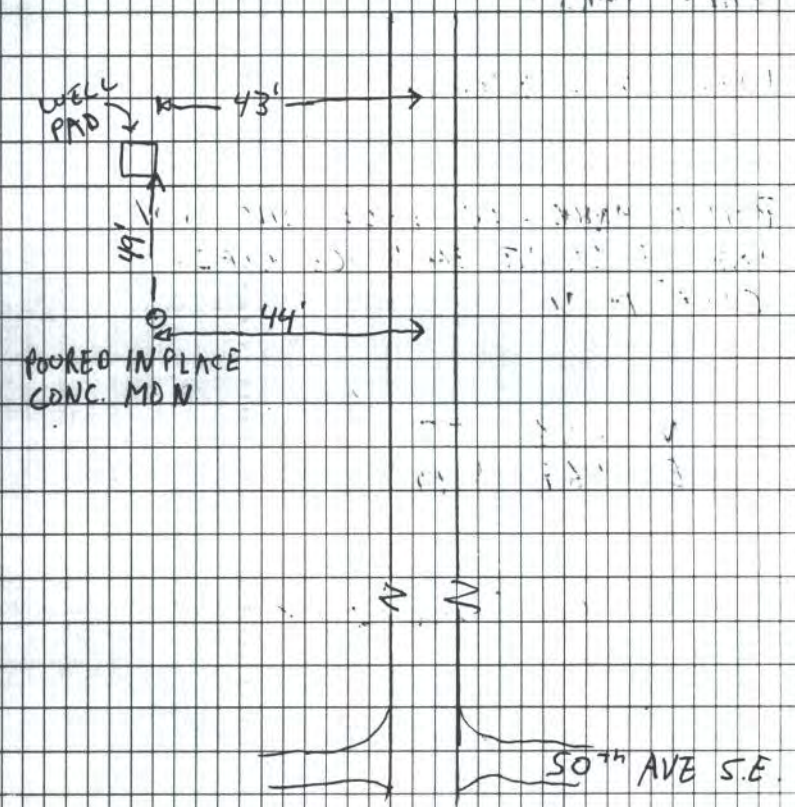
SPC N 659 589
E 469 910

ADDED "DEEP ONE" MAGNET

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 4.85 | | | |
| WELL | | | 0.24 | |
| | 0.17 | | | |
| B.M. | | | 4.78 | |
| | PHOTO | | 871 | |

J RICHMOND
F LEWIS
E BLAND

65108

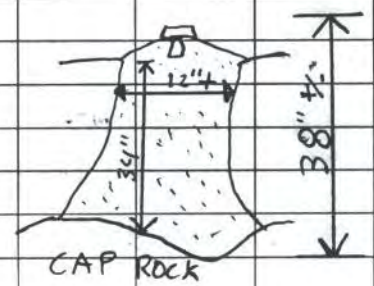


03041 CONT. 15 OCT 04

SOUTH GOLDEN GATE ESTATES
RESTORATION MONITORING WELL
BENCH MARKS

WELL NO. SGT 2W1

BENCH MARK - SET ALUM. DISK IN
TOP OF POURED IN PLACE CONC. MON.
LARGE ROCK AT 34" - CLEARED
DIRT FROM TOP & SIDE OF ROCK




| | | | |
|---|---|---|---|
| SPC | N | 646 | 574 |
| | E | 463 | 588 |

ADDED "DEEP ONE" MAG.

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 3.98 | | | |
| WELL | | | 0.06 | |
| | 0.23 | | | |
| SS | | | 3.92 | |
| BM | | | 4.15 | |

J. RICHMOND
F. LEWIS
E. BLANO

65/09

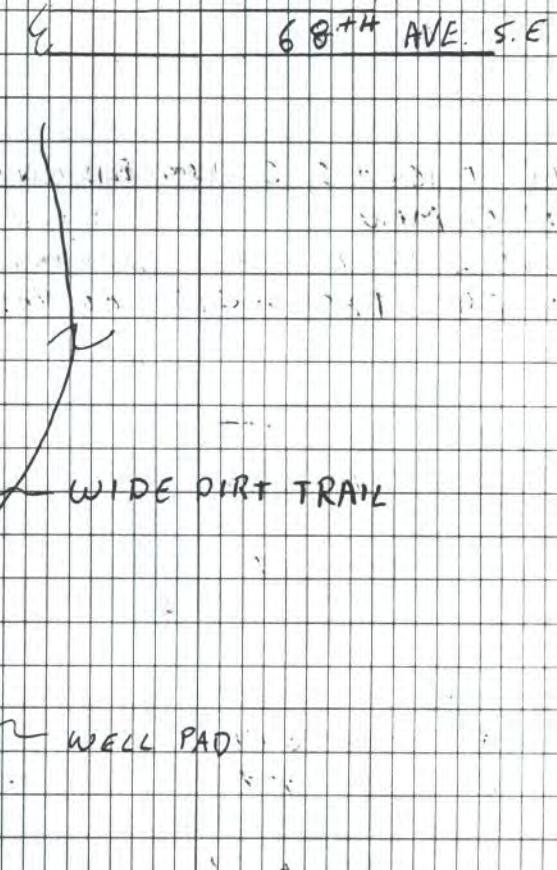



PHOTO 892

03041 CONT. 15 OCT 04

SOUTH GGES RESTORAITION MONITORING
WELL BENCH MARKS

WELL NO SGT 2W2

BENCH MARK - SET ALUM DISK IN
TOP OF CLASS "C" POURED IN PLACE
CONC. MON

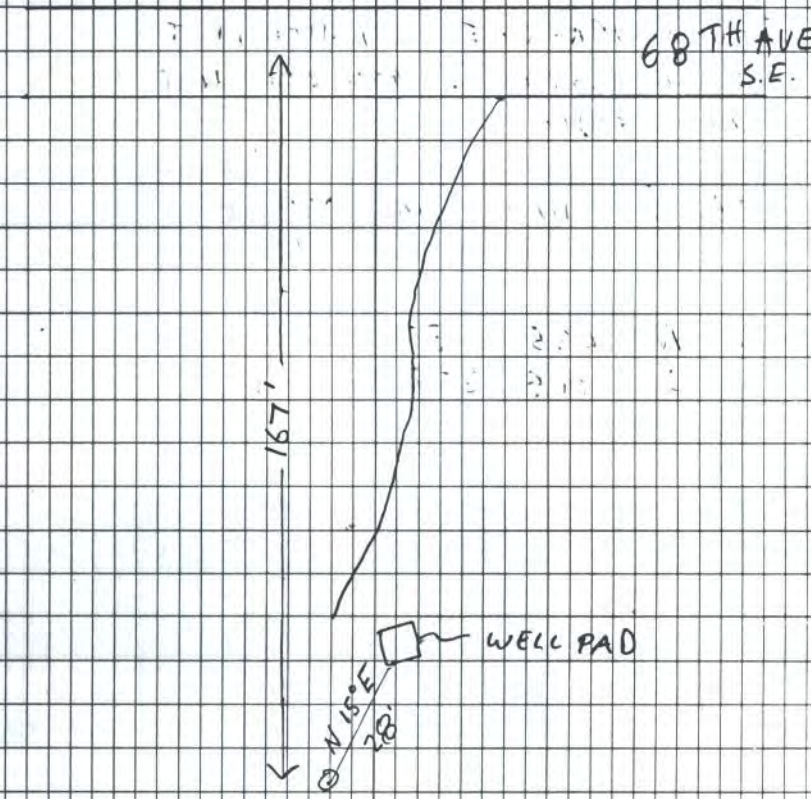
ADDED "DEEP ONE" MAGNET

| | | | | | |
|---|---|---|---|---|---|
| SPC | N | 646 | 777 | | |
| | E | 468 | 532 | | |

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 5.10 | | | | |
| WELL | | | 0.17 | | |
| | 0.30 | | | | |
| SS | | | 4.92 | | DISK ON PAD |
| BM | | | 5.23 | | |

PHOTO 893

65/10



03041. CONT. 15 OCT 04

SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL BENCH MARKS

WELL NO. SGT 3W1

BENCH MARK - SET ALUM. DISK IN TOP
OF A CLASS "C" POURED IN PLACE
CONC. MON.
DIRT & STONE MIX FILLED AREA

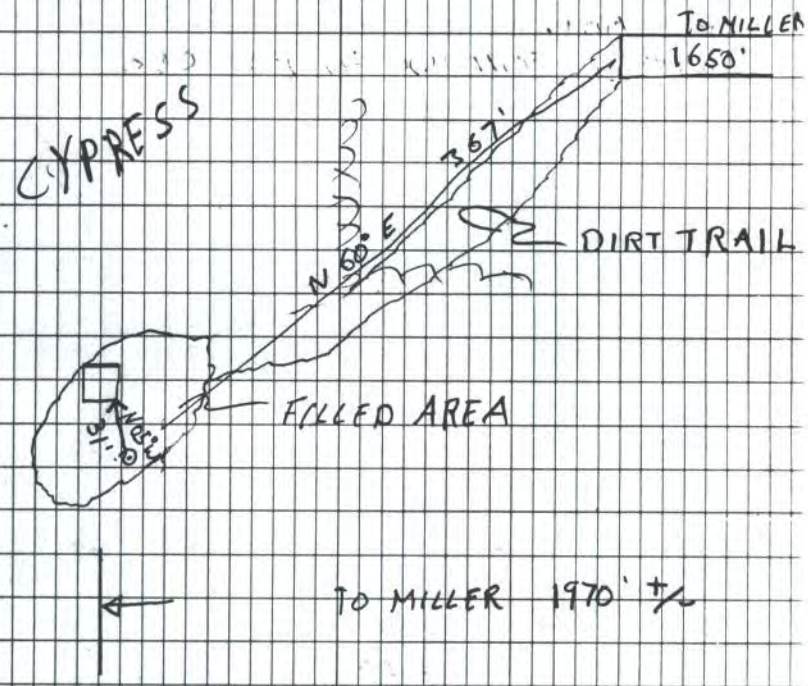
APPED "DEEP ONE" MAGNET

SPC N 625 653
E 468 279

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.32 | | | | |
| WELL | | | 0.08 | | |
| | 0.33 | | | | |
| SS | | | 4.38 | | DISK ON PAD |
| BM | | | 4.57 | | |

PHOTO 888





03OHI, CONT 18 OCT 04

SOUTH GGE RESTORATION MONITORING
WELL BENCH MARKS

WELL NO SGT 2W3

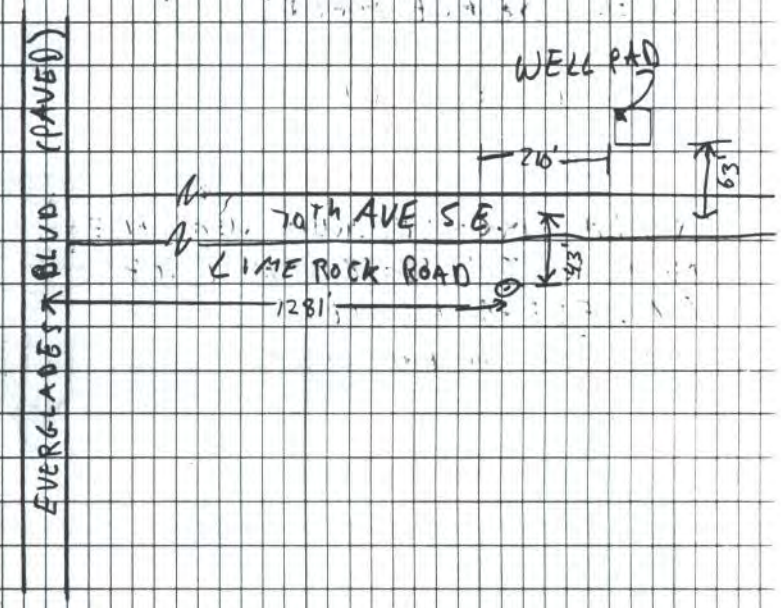
BENCH MARK - SET ALUM DISK IN TOP OF CLASS "C" POURED IN PLACE CONCRETE MON WITH "DEEP ONE" MAGNET IN THE MON.

SW COR OF WELL PAD
SPC N 645 798
E 479 521

BENCH MARK
SPC N 645 691
E 479 311

INTERSECTION OF ROADS EVERGLADES & 70TH
SPC N 645 723
E 478 030

J. RICHMOND 65/12
F. LEWIS
E. BLAND




| STA | BS | HI | FS | ELEV | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.69 | | | | |
| WELL | | | 1.17 | | |
| | 0.89 | | | | |
| SS | | | 3.59 | | DISK ON PAD |
| BM | | | 4.41 | | |

PHOTO 891

03041 CONT. 18 OCT 04

SOUTH GGE RESTORATION MONITORING
WELL BENCH MARKS

WELL NO. SGT 3W2

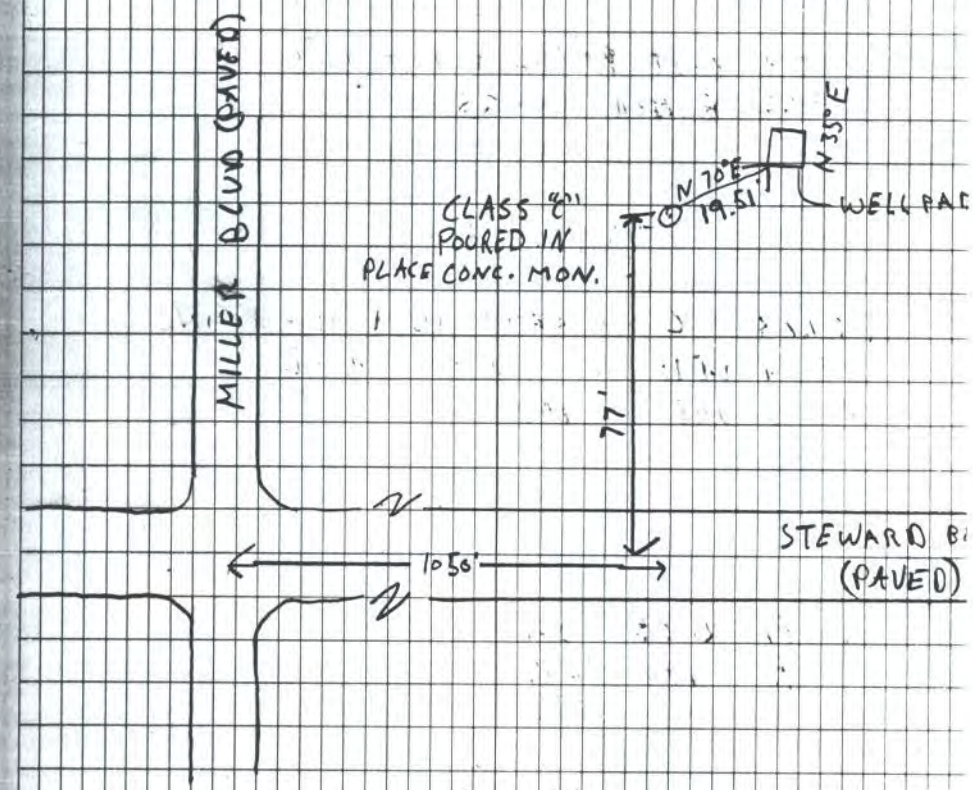
BENCH MARK: SET ALUM DISK IN TOP OF A CLASS "C", POURED IN PLACE CONC. MON. WITH "DEEP ONE" MAGNET EMBEDDED IN MON.

SPC N 625 932
E 471 299

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 3.25 | | | | |
| WELL | | | 0.36 | | |
| | 0.27 | | | | |
| SS | | | 3.88 | | DISK ON PAD |
| BM | | | 3.16 | | |

PHOTO 889





03041 CONT. 18 OCT 04

SOUTH G.G.E RESTORATION MONITORING WELL BENCH MARKS

WELL NO SGT 3W3

BENCH MARK - SET ALUM DISK IN CAP ROCK

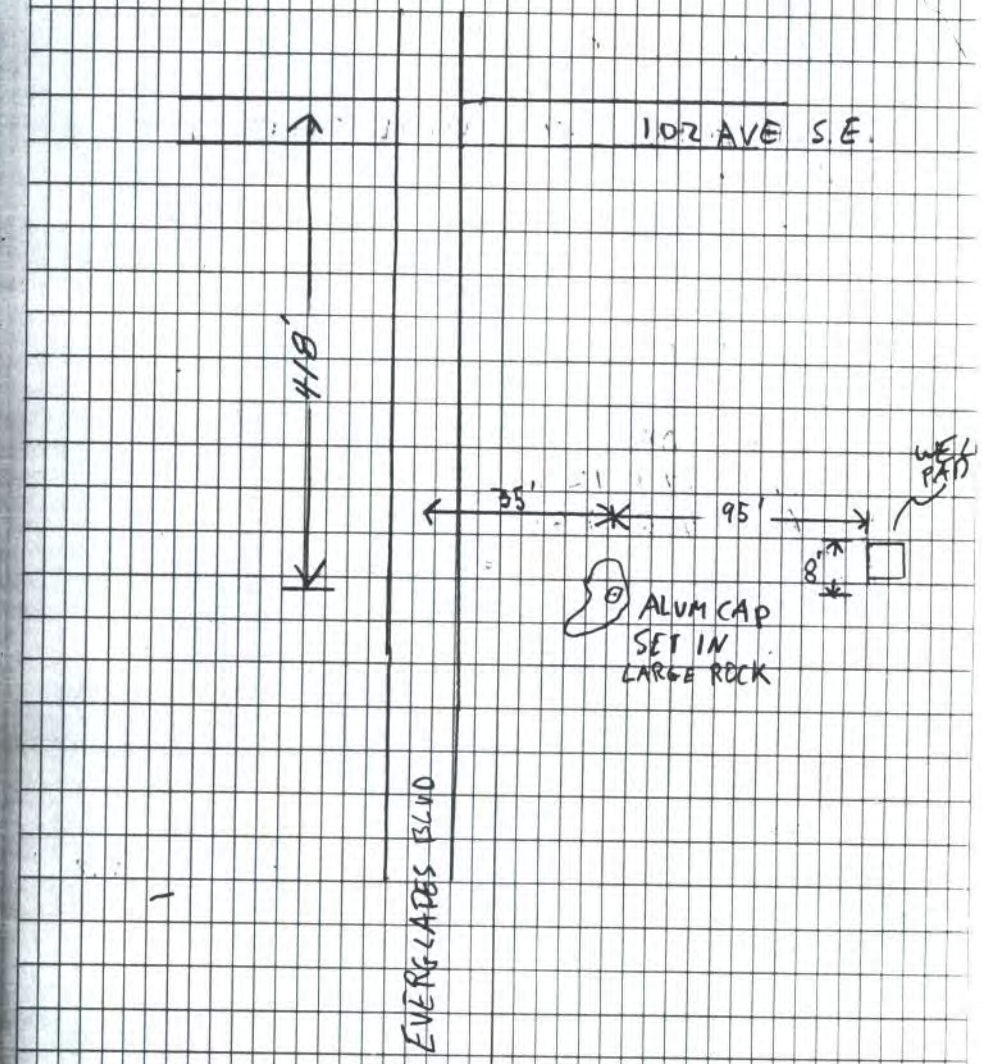
BENCH MARK
SPC N 624 128
E 478 254

NW COR OF WELL PAD
SPC N 624 136
E 478 349

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.46 | | | | |
| WELL | | | 0.10 | | |
| | 0.38 | | | | |
| SS | | | 4.12 | | DISK ON PAD |
| BM | | | 4.74 | | |

PHOTO 890





03041 CONT 20 OCT 04

SOUTH GOLDEN GATE ESTATES
RESTORATION MONITORING
WELL BENCH MARKS

WELL NO. SGT 3W4

BENCH MARK - SET ALUM DISK IN TOP OF A CLASS "C" POURED IN PLACE CONC. MON WITH "DEEP ONE" MAGNET EMBEDDED IN MON

BENCHMARK
SPC N 626 110.0
E 492 399.5

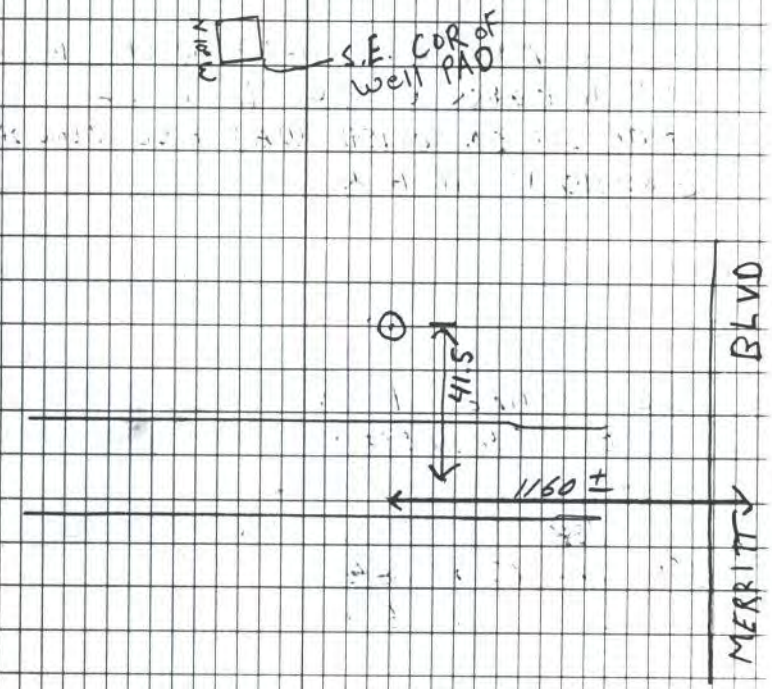
S.E. COR OF WELL PAD
SPC N 626 168
E 492 374

| STA | BS | HI | FS | ELEV |
|---|---|---|---|---|
| BM | | | | |
| | 5.62 | | | |
| WELL | | | 0.44 | |
| | 0.18 | | | |
| SS | | | 4.47 | DISK ON PAD |
| BM | | | 5.36 | |

PHOTO 877

J RICHMOND
F LEWIS
E BLAND

65/15



03041 CONT. 20 OCT 04

SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL BENCH MARKS

WELL NO. SGT 3WT

BENCH MARK
HOLE IN EXPANDED ROAD FILL BELOW ORIGINAL GROUND TO LARGE ROCKS - EXPANDED BELL OVER ROCK & CENTER OF HOLE PAST ROCKS TO DEPTH OF 2.5' +- WATER LEVEL A 1.2'

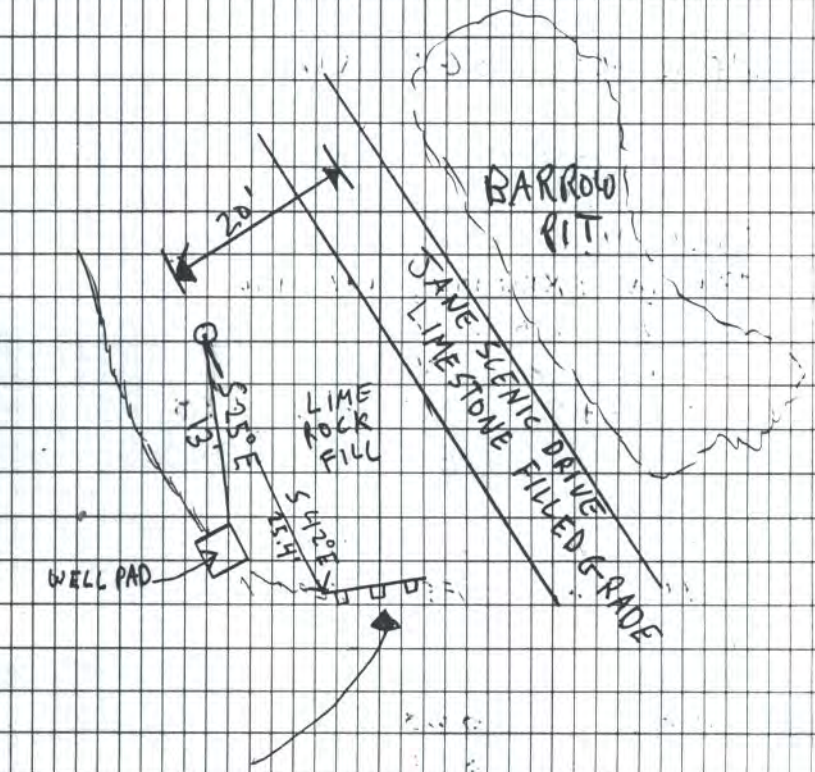
SET ALUM DISK IN POUR IN PLACE CONC. MON. EMBEDDED "DEEP ONE" MAGNET

MARK SPC N 623 352
E 511 310

| STA | BS | HI | FS | ELEV | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.90 | | | | |
| WELL | | | 0.27 | | |
| | 0.18 | | | | |
| SS | | | 4.44 | | DISK ON PAD |
| BM | | | 4.81 | | |

PHOTO # 880






4' X 10' METAL SIGN ON THREE (3) 6" X 6" WOOD POST

FAKAHATCHEE STRAND
PRESERVE STATE PARK

03041 CONT 20 OCT 04

WELL NO. SGT 4W1

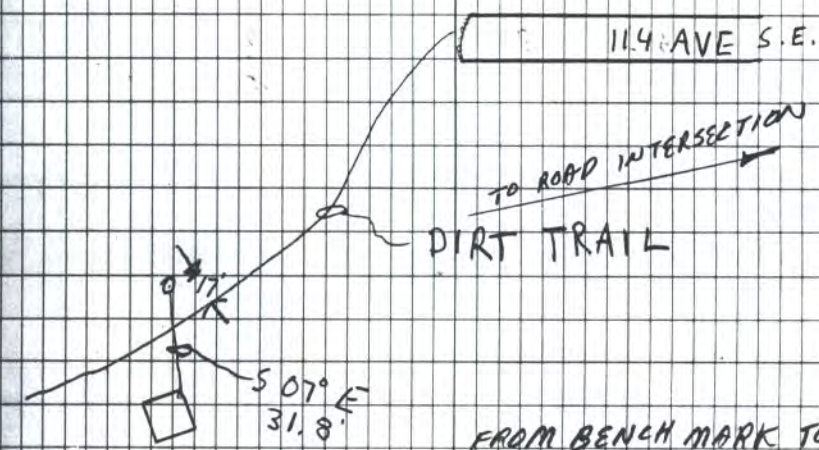
BENCH MARK - SET ALUM DISK IN TOP OF CLASS "C" POURED IN PLACE CONC. MON. WITH "DEEP ONE" MAGNET EMBEDDED IN MON.

| MARK | SPC | | |
|---|---|---|---|
| | N | 616 | 463 |
| | E | 468 | 340 |

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.24 | | | | |
| WELL | | | 0.08 | | |
| | 0.31 | | | | |
| SS | | | 3.94 | | DISK ON PAD |
| BM | | | 4.47 | | |

PHOTO 887

65/117




FROM BENCH MARK TO ROAD INTERSECTION OF MILLER BLVD & 114 TH AVE S.E.

N 87°E 1995'

03041 28 OCT 04

SOUTH GOLDEN GATE ESTATES RESTORATION
MONITORING WELL BENCH MARKS

WELL NO. SGT 3W6

BENCH MARK - SET ALUM DISK ATOP
CAP ROCK

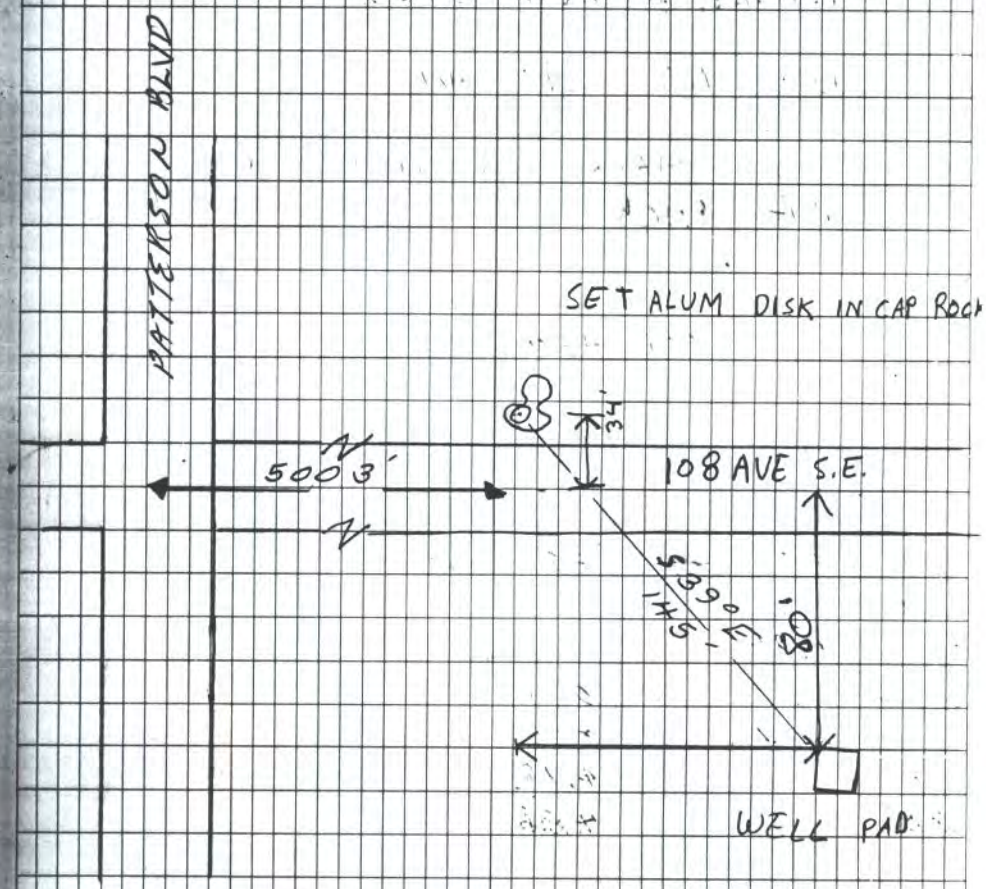
SPC N 620 919
E 504 010

| STA | BS | HI | FS | ELEV. |
|---|---|---|---|---|
| BM | | | | |
| | 4.90 | | | |
| WELL | | | 0.10 | |
| | 0.06 | | ~~4.~~ | |
| SS | | | 4.18 | |
| BM | | | 4.86 | |

PHOTO 881

F. LEWIS
E. BLAND

65/18



03041 28 OCT 04

SGGE RESTORATION MONITORING
WELL BENCH MARKS

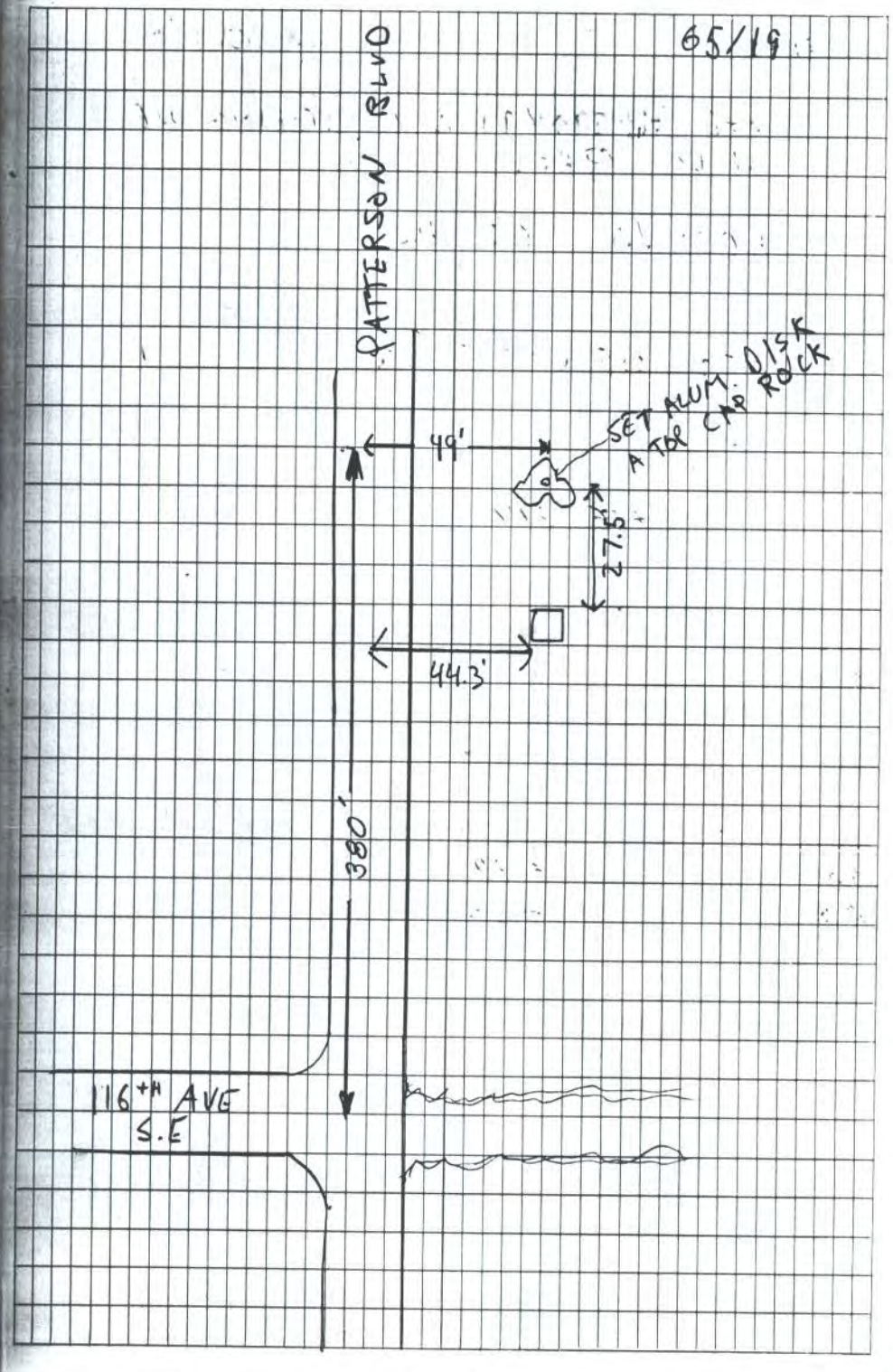
WELL NO. SGT 4W6

BENCH MARK - SET ALUM DISK IN
TOP OF CAP ROCK

SPC N 615 917
E 499 097

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 4.35 | | | | |
| WELL | | | 0.16 | | |
| | 0.19 | | | | |
| SS | | | 4.19 | | DISK ON PAD |
| BM | | | 4.38 | | |

PHOTO 882



03041 28 OCT 04

SGGE RESTORATION MONITORING WELL
BENCH MARKS

WELL NO. SGT 4W5

BENCH MARK - SET ALUM DISK
IN TOP OF CAP ROCK

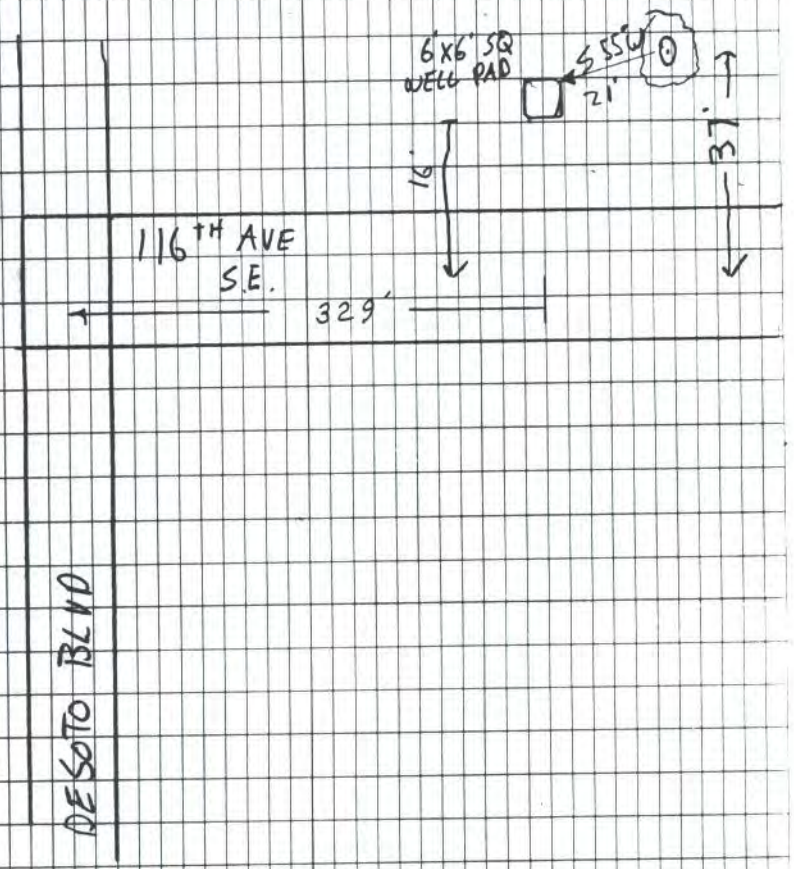
| | | | | |
|---|---|---|---|---|
| SPC | N | 615 | 454 | |
| | E | 488 | 340 | |

| STA | BS | HI | FS | ELEV | |
|---|---|---|---|---|---|
| BM | | | | | |
| | 5.48 | | | | |
| WELL | | | 0.35 | | |
| | 0.20 | | | | |
| SS | | | 4.27 | | DISK ON PAD |
| BM | | | 5.33 | | |

PHOTO 883

F. LEWIS
E. BLAND

65/20



03041 - 2 NOV 04

SGGE RESTORATION MONITORING:
WELL BENCH MARKS

BENCH RUN - LINE 1
STEWARD BLVD. SOUTH TO 106TH ON
EVERGLADES BLVD

TP5 = BM 3W3 Z=5.652

TP11 = BM P598 Z=4.652
KNOWN ELEVATION=4.647

F. LEWIS
E. BLAND

65/21

HGT DIFF - 0.804
Z DIFF - 0.005
B DIST - 2013.78
F DIST - 2015.94

03041

SGGE RESTORATION MONITORING WELL
BENCH MARKS

LEVEL RUN LINE 2
FROM DENI MON. 9249 @ LYNCH +
EVERGLADES WEST TO BRIDGE @
MILLER CANAL BM COLL 0026

TP5 = BM SGT 4W3 Z = 4.554

TP10 = BM COLL 0026

F. LEWIS
E. BLAND

65/22

Z = 9.327 DB = 1946.52
PUBEL = 9.345 DF = 1929.85

0 3041 CONT. 08 NOV 04

RAN LEVEL ADJUSTMENT
BENCH RUN LINE 0003

START AT CERP BENCH R 598
RUN WEST ON 120TH AVE S.E.

BENCH ELEV. 4.469 NAVD

TURNING POINT 19 - 5.231 T/ROCK

TURNING POINT 19 - 4.633 CUT NAIL

09 NOV 04

CONTINUE LEVEL RUN 0003
FROM TP 19 NORTH ALONG
MILLER BLVD WITH TURNS NEAR
EAST EDGE OF PAVEMENT

TP 23 = SET 4W2

TP - 27 EAST EDGE OF MILLER AT

TP - 32 = SET 4W1

TP - 37 : END LINE
TP - 37 : START NEW LINE 0004

F. LEWIS
E BLAND

65/23

EAST SIDE OF MILLER CANAL

EAST EDGE OF MILLER @ 120TH AVE S.E

114TH AVE S.E.

03041 CONT. 10 NOV 04
MID 70's AM
CLEAR LIGHT BREEZE

F LEWIS
E BLAND
J. RICHMOND

65/24

CONTINUE LINE 0004 NORTH
ALONG MILLER BLVD TO
STEWART BLVD THEN WESTERLY

TP 21 S'LY EDGE OF PAVEMENT ON
230' WEST OF MILLER BLVD

STEWART BLVD

TP 26 = SET 3W1

CONTINUE LINE 0004 EAST ON
STEWART BLVD ALONG N'LY EDGE

TP 32 CUT NAIL 225' EAST OF

MILLER BLVD

TP 35 = SET 3W2 BENCH MARK

CONTINE RUN EASTERLY ON
STEWART
NOON
PT. CLOUDY
80° ±

TP-45 CUT NAIL S'LY EDGE @1=1

STEWART BLVD

TP-51 = BM 9248 5.456
sh - 0.499
dz 0.010
Pb 10639.22
DF 10795.58

9248 5.456

030 44 - CONT. 10 NOV. 04

RAN LEVEL ADJUSTMENT
ΔC = 4.7"

START BENCH RUN LINE 0005
BM 924B 5.456

EASTERLY ALONG S'LY EDGE OF
STEWART BLVD

AT TP 09 STOPPED BENCH
RUN DUE TO WINDY CONDITIONS

11 NOV 04
CONTINUE LEVEL RUN LINE 0005
EAST ALONG STEWART BLVD.
@ TP 09

TP 14 = C.O.E. BENCH "COLL 0024"
ON BRIDGE DECK AT FAKA UNION
CANAL & STEWART BLVD

TP 21 CUT NAIL STEWART BLVD
NEAR S. EDGE OF PAVEMENT
200' WEST OF DeSOTO BLVD

TP 22 CUT NAIL STEWART BLVD
NEAR S. EDGE OF PAVEMENT
250' EAST OF DeSOTO BLVD

J. RICHMOND 65/85
F LEWIS
E BLAND

70°
MOSTLY CLEAR

03041 17 NOV 04

SGGE RESTORATION MONITORING WELL
BENCH MARK LEVEL RUN
CONT. LINE 0005

J. RICHMOND
E. LEWIS
E. BLAND

65126

| | | |
|---|---|---|
| TP 26 | CUT NAIL @ S. EDGE OF PAVEMENT & YELLOW PAINT MARK | |
| TP 32 = | SGT 3W4 NORTH OF | STEWART BLVD |
| TP 35 | CUT NAIL @ S. EDGE OF PAVE 110' WEST OF MERRITT BLVD | |
| TP 36 | CUT NAIL @ SOUTH E.O.P. 335' EAST OF MERRITT BLVD | |
| TP 39 | CUT NAIL 3' SOUTH OF NORTH EOP EAST END OF MERRITT CANAL BRIDGE | |
| TP 48 | DENI GPS MON 9252 POURED IN PLACE 16" DIA. CONC. MON @ S.E. QUAD OF PATTERSON BLVD & STEWARD BLVD | Z = 6.707<br>ADJ ELEV = 6.728 |
| TP 53 | SGT 3W5 | |
| TP 62 | CUT NAIL @ S. EDGE OF PAVEMENT 400'± WEST OF JANE SCENIC DRIVE | |
| TP 63 | CUT NAIL @ INTERSECTION OF ~~EXERC~~ STEWART & JANES SCENIC | |

D3041 11 NOV 04

TP 64 CUT NAIL @ EAST SIDE OF JANES SCENIC @ NORTH-SOUTH SECTION OF JANES

TP 65 CUT NAIL @ SOUTH WEST SIDE OF JANES SCENIC @ CURVE BEFORE THE ROAD GOES DIRECTLY EAST

TP 66 C-987 ELEV IN LEVEL 7.957

CONTINUED IS NOV OK CLEAR 70°+-

START LEVEL LOOP FROM C-987 CANAL & JANES MEMORIAL SGT 3W7 (SW 1/4 OF FILLED

TP 81 = BM SET 3W7

TP 96 = C-987

TP 107 SET 5/8" x 24' IRON @

J. RICHMOND
F. LEWIS
E BLAND

65/27

F. LEWIS
E BLAND

- DISK SET IN EAST WALL OF RIVER AT PRAIRIE SCENIC DRIVE SOUTHEASTERLY TO ROAD GRADE)

Z = 8.785

Z = 7.961

EAST END OF 108 TH AVE S.E Z = 7.065

03041 16 NOV 04
SGGE 75°
BENCH MARKS CONT. CLEAR

WEST ON 108TH AVE. S.E.
FROM TP 107

| | | | |
|---|---|---|---|
| TP 112 = | BM SET 3W6 | | |
| TP 123 | TOP OF ROCK IN ℄ 108TH AVE 20' EAST OF PATTERSON BLVD. | S.E. | |

THEN SOUTH WITH CUT NAIL TURNING POINTS ALONG THE EAST EDGE OF PATTERSON BLVD. PAVEMENT

| | | | |
|---|---|---|---|
| TP 135 = | BM SET 4W6 | Z = 5.850 | |
| TP 136 | TOP OF ~~PAVEP~~ REFLECTOR ℄ 45' WEST OF PATTERSON | 116TH AVE SE BLVD | |
| TP 149 | CUT NAIL WEST EDGE OF 80' SOUTH OF 116TH AVE | MERRITT BLVD S.E. | |

F. LEWIS ✝ ◫ 65/28
E BLAND ⊼

03041 17 NOV 04
SGGE
BENCH MARKS CONT.

FROM TP 149 SOUTHERLY ON
MERRITT BLVD

TP 158 EAST SIDE OF MERRITT
265' SOUTH OF 122ND AVE

TP 166 FOUND P.K NAIL & DISK
WEST EDGE OF MERRITT

WEST ALONG LYNCH BLVD

TP 178 CUT NAIL SOUTH SIDE OF LYNCH
120' EAST OF INTERSECTION OF
DESOTO + LYNCH Z=4.555

TP 179 CUT NAIL EAST SIDE OF DESOTO
125' NORTH OF INTERSECTION OF
DESOTO + LYNCH Z=4.496



J RICHMOND
F LEWIS
E BLAND

Z = 6.098

BLVD
S.E.

CEC LB-2464
BLVD @ CENTER OF LYNCH BLVD

Z=4.555

03041 18 NOV 04
SGGE
BENCH MARKS CONT.

FROM TP 179 NORTH ON DESOTO BLVD

TP 187 CUTNAIL - EAST SIDE OF DESOTO
70' SOUTH OF 122nd AVE S.E.

TP 190 CUT NAIL - EAST SIDE OF DESOTO
35' NORTH OF 120th AVE S.E.

TP 196 FOUND PK/ALUM DISK IN AIRIAL
TARGET @ INTERSECTION OF
DESOTO + 116th AVE. S.E.

TP 197 = BM SGT 4W5 Z = 4.458

FROM TP 215 WEST ON LYNCH BLVD

TP 222 CUT NAIL - SOUTH SIDE OF LYNCH BLVD

TP 236 = BM 9249 Z = 3.680

SH -1.776
dZ 0.086
DB 51034.61
DF 51652.38

J. RICHMOND
F. LEWIS
E. BLAND

65/3C

"SMT 6627"

(NOR 1015)

@ EAST SIDE OF BRIDGE

check 3.766
3.680
0.086

03041 CONT. 22 NOV 04
SGGE RESTORATION CLEAR
BENCH MARKS 70°

RAN LEVEL ADJUSTMENT

AC_ : -1.3"

AC_ : -0.0"

START LINE 0006 @ 9252
AT PATTERSON & STEART BLVDS
RUN NORTH ALONG PATTERSON

TP 09 CUT NAIL NEAR EAST EDGE OF
PAVEMENT 30' NORTH OF 94TH

TP 26 CUT NAIL CENTER OF PATTERSON
AT 82 ND AVE S.E.

TP 29 FOUND PK NAIL & TISK STAMPED
WEST EDGE OF PATTERSON BLVD
50' NORTH OF 80TH AVE S.E.

AT 79 TH AVE S.E. RAN BENCH
LOOP EAST

J RICHMOND
F LEWIS
E BLAND

65/31

PENI GPS MON. 9252
ARV ELEV. 6.728

Z = 7.460
AVE. S.E.

BLVD

"Z 2489 34-5"

0304 CONT. 22 NOV 04

BENCH MARKS

TP 35 FOUND IRON PIN W/ LATH MARKED "Z-2849 34.2 #1004" AT SOUTH EDGE OF TRAVELED ROAD (79TH AVE S.E.)

TP 45 = SGT 2W6 Z = 8.664'

TP 60 FOUND PK NAIL & BRASS DISC at INTERSECTION OF PATTERSON & 79th AVE. DISC STAMPED S.F.W.M.D

23 NOV 04

CONTINUED NORTH ON PATTERSON BLVD

TP 73 CUT NAIL WEST EDGE OF PAVE AT 70TH AVE S.E.

RUN EAST ON 70TH AVE S.E.

TP 76 = SGT 2W5 Z = 9.418

RUN WEST ON 70TH AVE S.E. THEN NORTH ON PATTERSON BLVD

TP 85 DENI GPS MON. 9253 Z = 9.277'



J. RICHMOND
F LEWIS
E BLAND

Z = 7.874'

F. LEWIS

ON PATTERSON BLVD
Z = 9.624

0304 CONT. 23 NOV 04

CONTINUE LEVEL RUN NORTH
ON PATTERSON BLVD

TP 101 CUT NAIL WEST EDGE
OF PATTERSON BLVD AT 55TH AVE S.E.

24 NOV 04

CONTINUE LEVEL RUN EAST ON 55TH

TP 114 = SGT IW5 Z = 10,871

TP 127 CUT NAIL @ 55TH &
PATTERSON

E. BLANA &
F. LEWIS II



DIST B 22182.64
Z = 11,188 DIST F 22373.84

75°
AVE S.E.

DB = 24786.96
DF = 24990.07

Z = 11,189 DB = 27379.84
DF = 27565.46

03041 29 NOV 04

SGGE RESTORATION MONITORING WELL
BENCH MARKS

TP 191 CUT NAIL ± 215' WEST OF MERRITT ON THE NORTH SIDE OF 52nd AVE. SE

TP 204 60d SPIKE ± 200' EAST OF DESOTO ON THE NORTH SIDE OF 52nd AVE. SE

LINE 0006 30 NOV 04

CONTINUE LEVEL RUN NORTH ON DESOTO BLVD

TP 208 CUT NAIL @ WEST EDGE OF PAVEMENT ON DESOTO BLVD 292' NORTH OF 50TH AVE

TP 209 = SGT 1W 4

TURN SOUTH TO 50TH AVE S.E. THEN WEST ON SAME

TP 218 BASS DISK @ WEST END C.O.E. BM "COLL 0018"

CONTINUE WEST ON 50TH AVE.

TP 232 CUT NAIL IN LIME ROCK 175' EAST OF EVERGLADES BLVD



Z = 10.858 DB 43 614.25
DF 43 894.33

F. LEWIS
E. BLAND

Z = 10.099 DB 44619.0
DF 44898.8

Z = 10.661 DB 46 405.0
DF 46 701.3

30 NOV 04

SOUTH ON EVERGLADES TO
BENCH MARK 185' SOUTH OF
BENSON BLVD (52ND)

TP 236 = J598 Z= 9.156

01 DEC 04

RUN LEVED ADJUSTMENT

PREV. ADJUSTMENT C_ : 19.6"
CURVATURE OFF
REFRACTION OFF

A C _ : 4.0"

C_ : 23.7"

RERUN A C _ : -1.3"
REPEAT A C _ : -0.7"

C_ : 23.0"



PUB. ELEV. 9.234 DB 50444.8
DF 50731.4
DIF 0.078

03044 01 DEC 04
SGGE RESTORATION MONITORING
WELL BENCH MARKS

LINE 0007 NORTH ON EVERGLADES BLVD @ 76 AVE S.E.
CERP BENCH MARK L-598 ELEV. 6.472 NAVD
POURED IN PLACE MONUMENT WITH
BRASS DISK

EAST ON 70TH AVE S.E.

TP 12 = SGT 2W3 — Z = 7.210 — DB 2594.1 DF 2582.1

WEST ON 70TH AVE S.E.

TP 15 CUT NAIL EAST EDGE OF PAVE ON EVERGLADES BLVD @ 70TH AVE — Z = 8.505 — DB 3235.5 DF 3215.4

TP 18 = CERP BENCH ELEV. 8.092
DENI GPS MON. 9247 — Z = 8.075 — DB 3887.7 DF 3860.9

~~TP 19~~ ~~Z = 8.311~~
DELETE ADRESSES 778-780
ENTERED WRONG POINT NAME FOR TURN

START LINE 0008 — BM 9247 ELEV 8.092
LEVEL RUN WEST ON 68TH AVE

TP 9 60d NAIL IN LIME ROCK ROAD ON 68 AVE S.E ~~ON~~ 125' WEST OF MILLER CANAL — Z = 9.674 — DB 2081.1 DF 2077.9

03044 02 DEC 04

SGGE RESTORATION
BENCH MARKS
CONTINUE LINE 0008
FROM TP 9 WEST ON 68 TH AVE
AT MILLER CANAL

F. LEWIS 65/38
E. BLAND

| | | | |
|---|---|---|---|
| TP 18 | MAG NAIL ℄ 68 TH AVE @ WEST EDGE OF PAVEMENT OF MILLER BLVD | Z = 8.861 | DB 3986.5<br>DF 3985.8 |
| TP 22 | = BM SET 2 W2 | Z = 9.270 | DB 4815.5<br>DF 4815.0 |
| TP 35 | = BM SET 2W 1 | Z = 9.555 | DB 7504.1<br>DF 7510.9 |
| TP 36 | HIGH POINT OF CAP ROCK @ WEST END OF 68TH AVE S.E. | | |
| TP 40 | CHECK READING | Z = 9.623 | |
| TP 50 | MAG NAIL WEST EDGE OF MILLER BLVD @ 68 TH AVE | Z = 8.855 | DB 10 893.3<br>DF 10 897.5 |

03041 06 DEC 04
SF WMP CLEAR/WARM
SGEE RESTORATION MONITORING
WELL BENCH MARKS

CONTINUE LINE 0008 WITH
DINI 22 DIGITAL LEVEL
FROM TP 50 NORTH ON MILLER

TP 59 MAG NAIL @ WEST EDGE OF
210' NORTH OF 62ND AVE. S.E.

TP 70 CUT NAIL NEAR WEST EDGE OF
MILLER BLVD PAVEMENT AT
CENTER OF 54TH AVE S.E.

WEST ON 54TH AVE. S.E.

THEN NORTH ON FILLED GRADE

TP 85 = BM SGT 1W1

THEN RETURNED ALONG SAME ROUTE
TO MILLER BLVD

TP 91 CUT NAIL @ X 54TH AVE
& FILLED GRADE NORTH

TP 100 CUT NAIL @ MILLER BLVD
& 54TH AVE S.E

F. LEWIS 65/39
E. BLAND

PAVEMENT DB 12 979.9
Z = 8.578 DF 12 983.3

Z = 10.902 DB 15 512.2
DF 15 506.0

Z = 9.236 DB 18 699.4
DF 18 703.0

Z = 10.245

Z = 10.897 DB 21 901.8
DF 21 901.9

030471 07 RECOH
CONTINUED CLEAR 74°
BENCH RUN LINE 0008

FROM TP 100 NORTH ALONG
MILLER BLVD.

TP 108 = BM SGT 1W2 — Z = 10.196 — DB 23 603.9 / DF 23.603.8

TP 108 MAG NAIL NEAR WEST EDGE OF PAVEMENT OF MILLER BLVD 187' SOUTH OF 48TH AVE S.E. — Z = 10.254

THEN EAST ON 48TH AVE

TP 118 1/2" x 6" STEEL BLOT 10' WEST OF MILLER CANAL — Z = 10.671 — DB 25 826.8 / DF 25 826.3

NOON 80°
MOSTLY CLOUDY

CONTINUE EAST ON 48TH AVE S.E.

TP 128 = BM H598 PUBLISHED — Z = 11.266 — DB 27 924.9
ELEV. = 11.267 — DF 27 930.4

SH = 3.174
DZ = 0.001

03041 14 DEC 04

SFWMD

SGGE RESTORATION MONITORING WELL BENCH MARKS

WELL NO SGT 1W4

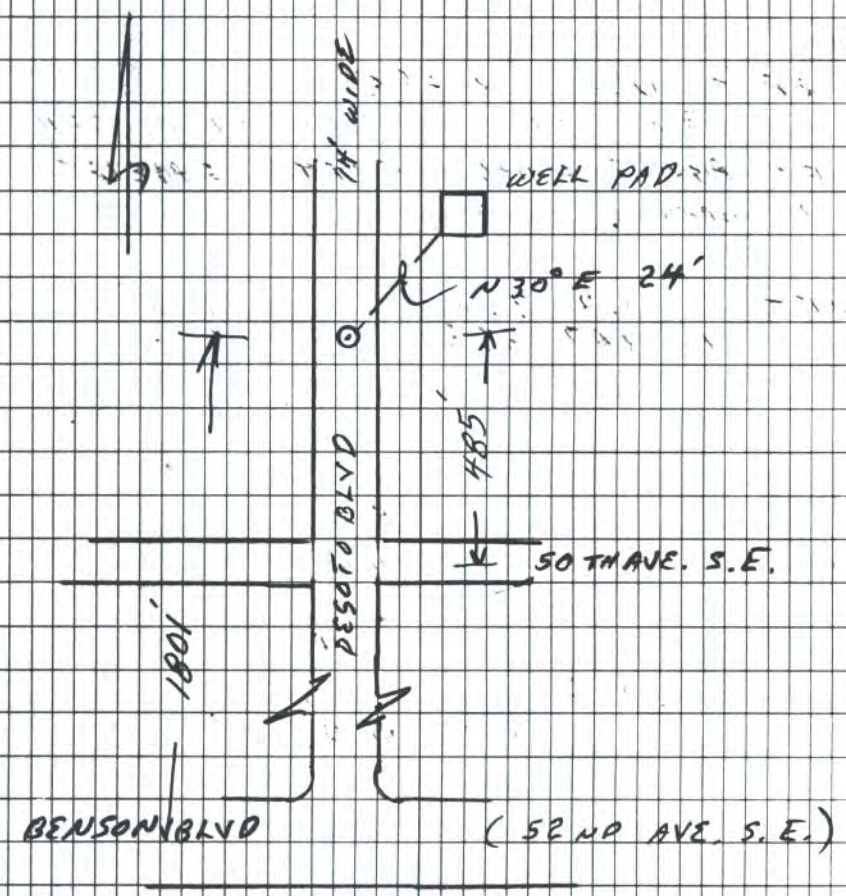
TEMP BENCH MARK
SET 3/4" x 24" IRON ROD IN CENTER OF PAVED ROAD WITH CEMENT COLLAR

SPC N 659 481
E 487 599

| STA | BS | HI | FS | ELEV |
|---|---|---|---|---|
| TBM | | | | 10.17 |
| | 4.80 | 14.97 | | |
| WELL | | | 0.73 | 14.24 |
| | 0.68 | 14.92 | | |
| TBM | | | 4.75 | 10.17 |

PHOTO 872

A. LEWIS 05/41



03041 16 DEC 04

SFWMD

SGGE RESTORATION MONITORING

WELL BENCH MARKS

WELL SET 4W4

CERP BENCH R 598

INFO PER SFWMD DATA SHEET

& PRELIMINARY VERTICAL DATA

VERT. 1.36224 M 4.469' NAVD

SPC 612 731.807

478 281.190

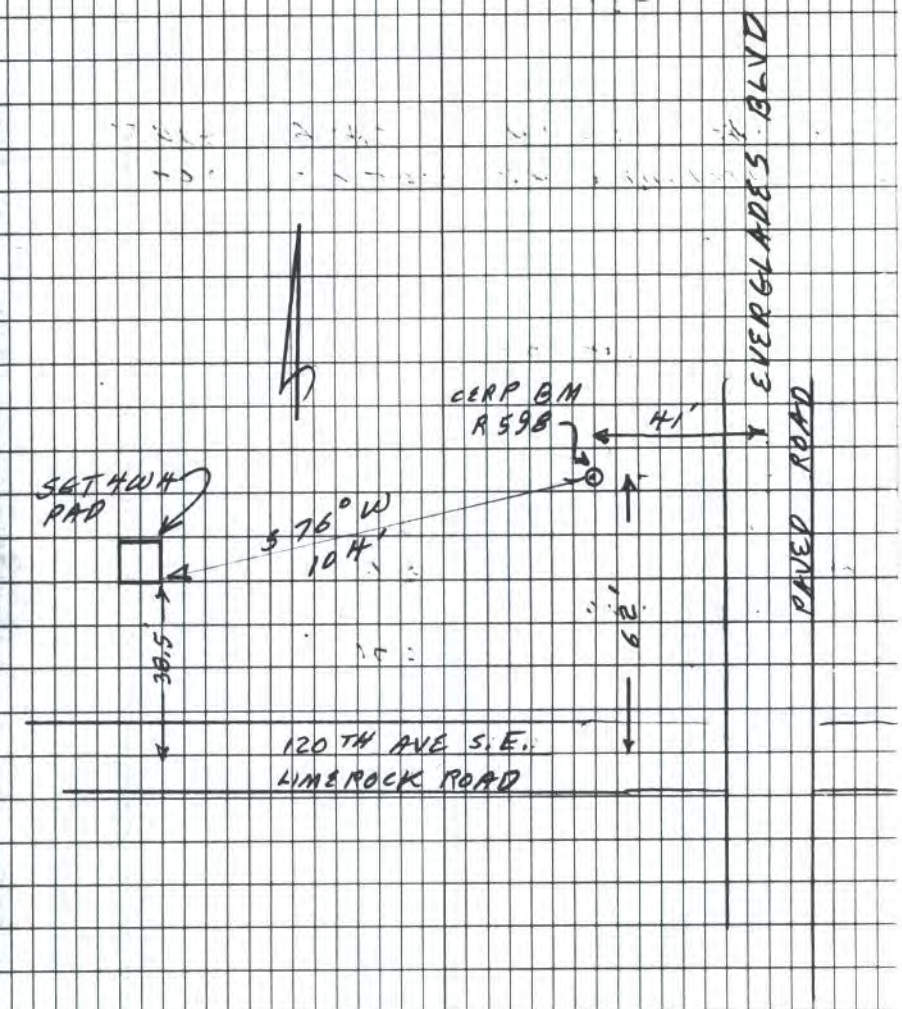
| STA | BS | HI | FS | ELEV | |
|---|---|---|---|---|---|
| BM | | | | 4.47 | |
| | 5.22 | 9.69 | | | |
| WELL | | | 0.895 | 9.795 | |
| | 0.485 | 9.28 | | | |
| SS | | | 4.27 | 5.01 | DISK ON PAD |
| BM | | | 4.81 | 4.47 | |

PHOTO 884

F LEWIS

E BLAND

65/42



03041 CONT. 16 DEC 04
SFWMD
SGGE

SET 4W3

BENCH MARK: ALUMINUM SFWMD DISK SET IN CAPROCK AT SOUTHERLY SHOULDER OF ROAD - LYNCH BLVD

| | | | | | |
|---|---|---|---|---|---|
| SPC | N | 607 | 359 | | |
| | E | 476 | 522 | | |
| STA | BS | HI | FS | ELEV. | |
| BM | | | | 4.56 | |
| | 3.21 | 7.77 | | | |
| WELL | | | 0.86 | 6.91 | |
| | 0.71 | 7.62 | | | |
| SS | | | 3.81 | 3.81 | DISK ON PAD |
| BM | | | 3.06 | 4.56 | |



F. LEWIS
E BLAND

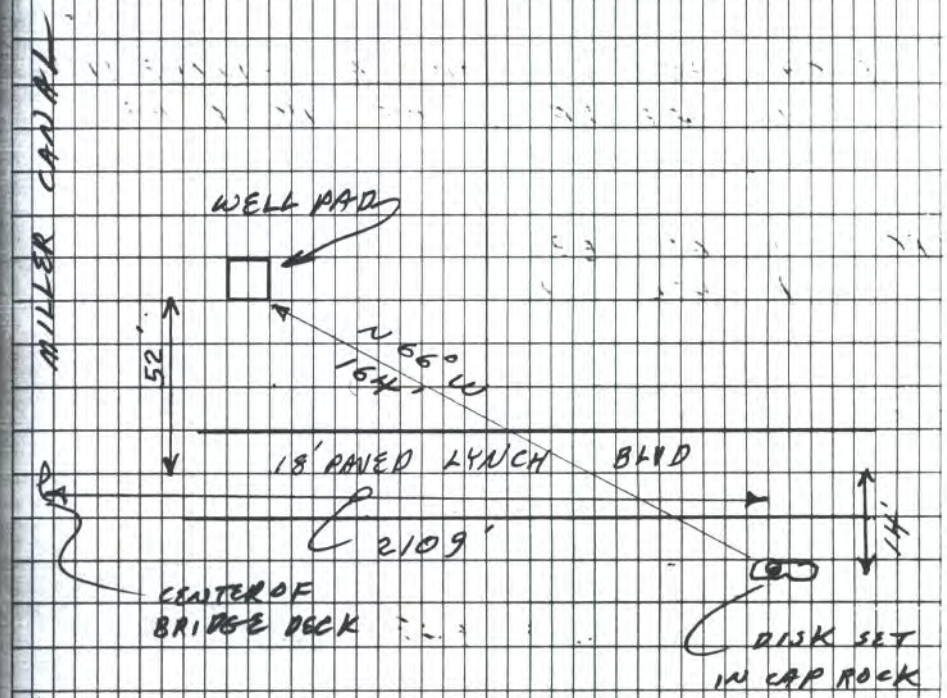



PHOTO 8 & 5

03041 CONT. 16 DEC 04

SGT 4W2

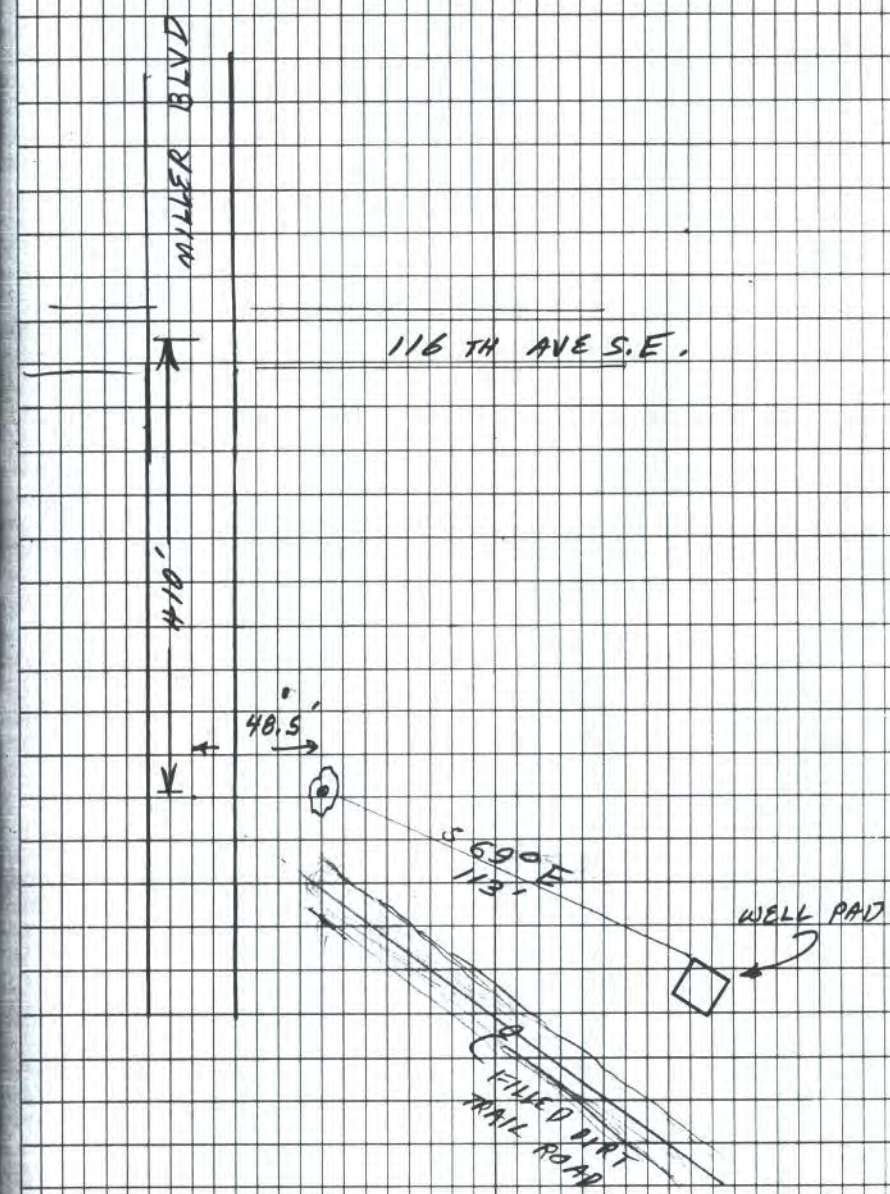
BENCH MARK - ALUMINUM SFWMD DISK SET IN CAP ROCK AT THE EDGE OF THE EASTERLY ROADSIDE SWALE

SPC N 614 839
E 470 396

| STA | BS | HI | FS | ELEV. | |
|---|---|---|---|---|---|
| BM | | | | 5.73 | |
| | 3.95 | 9.68 | | | |
| WELL | | | 0.34 | 9.34 | |
| | 0.58 | 9.92 | | | |
| SS | | | 4.45 | 5.47 | DISK ON RAD |
| BM | | | 4.19 | 5.73 | |

PHOTO 886





# South Florida Water Management District
## Benchmark Database

*Report run on: January 10, 2005 10:49 AM*

Designation: SGT1W1
County: COLLIER
USGS Quad: BELLE MEADE NE
Project: SGT1W1 WELL SITE

Sec: 2 Twp: 50 Rge: 27

Status:

**NAD 1927 Coordinates:**
N =
E =
Adjustment:

**NAD 1983 Coordinates:**
X =
Y =
Adjustment:
Order:
Class:

Latitude: 260844.700 Scaled values only
Longitude: 813445.400
Monument By: SMT
Year: 2004
Type: V
Stamping: SGT1W1
Party Chief:
Field Book 65
Page: 7

**NGVD 1929**
Elevation: 10.570
Order: 3
Class:

**NAVD 1988**
Elevation: 9.230 9.233
Order: 3
Class:

Description:

FROM THE INTERSECTION OF INTERSTATE 75 AND EVERGLADES BOULEVARD (BLVD.), GO SOUTH APPROXIMATELY 0.75 MILES TO BERSON BLVD. THEN GO WEST ON BERSON BLVD. APPROXIMATELY 1.5 MILES TO MILLER BLVD. FROM THE INTERSECTION OF MILLER BLVD. & BERSON BLVD. GO SOUTH ON MILLER BLVD. 0.25 MILES TO 54TH AVE S.E. THEN GO WEST ON 54TH AVE S.E. AND CONTINUE TO FOLLOW THE ROAD WHEN IT BECOMES A TRAIL ROAD. THE TRAIL WILL GO NORTH A FEW HUNDRED FEET THEN WEST ABOUT 0.5 MILES THEN GO NORTH ABOUT 0.5 OF A MILE.

THE MONITORING WELL WILL BE OFF TO THE WEST. THE BENCH MARK IS LOCATED 62 FEET S^10 E FROM THE SOUTHEAST CORNER OF THE WELL PAD.

THE BENCH MARK IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) 2-INCH ALUMINUM DISK SET IN TOP OF A CLASS "C" POURED IN PLACE CONCRETE MONUMENT.

WELL HEAD EL. 13.71 NAVD 1988
EL. 15.05 NGVD 1929

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 1W2 |
| **Southern Golden Gate Estates** Unit 98 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Northeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 8 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 469910 | **Y (Northing)** 659589 | **EL.** = 10.20 (NAVD 88)<br>**EL.** = 11.54 (NGVD 29) |
|---|---|---|---|

**LATITUDE:** 26°08'49.83" N **LONGITUDE:** 81°34'04.04" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.75 Miles to Berson Blvd.
Then go West on Berson Blvd. Approximately 1.5 Miles to Miller Blvd.
From the Intersection of Miller Blvd. & Berson Blvd. Go North on Miller Blvd. Approximately .35 Miles.
Then from the Centerline of Miller Blvd go West 44 feet to the Bench Mark.
The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


SOUTH FLA. WATER MANAGEMENT DIST.
SURVEY
MARKER
S GT 1W2

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 1W4 |
| **Southern Golden Gate Estates Unit** 113 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Northeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 41 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| | | | |
|---|---|---|---|
| **STATE PLANE COORDINATES** Feet | **X (Easting)** 487599 | **Y(Northing)** 659481 | **EL.** = 10.17 (NAVD 88)<br>**EL.** = 11.51 (NGVD 29) |
| **LATITUDE:** 26°08'49.49" N | **LONGITUDE:** 81°30'49.89" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.7 Miles to Berson Blvd.

From the Intersection of Everglades Blvd. & Berson Blvd. Go Approximately 1.8 Miles to Desoto Blvd.

From the Intersection of Berson Blvd. & Desoto Blvd. go 1801feet to the Bench Mark in the Center of Desoto Blvd.

The Bench Mark is a Temporary Bench Mark.

The Mark is a Set ¾" X 24" Iron Rod in Center of Paved Road with Cement Collar.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 1W5 |
| **Section** 1 (The Boot) | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Catherine Island | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 1 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 502053 | **Y (Northing)** 658030 | **EL.** = 10.92 (NAVD 88)<br>**EL.** = 12.26 (NGVD 29) |
|---|---|---|---|
| **LATITUDE:** 26°08'35.66" N | **LONGITUDE:** 81°28'11.22" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.75 miles to Berson Blvd.

Then go East on Berson Blvd. Approximately 2.9 Miles to Merritt Blvd.

The go South on Merritt Blvd. Approximately 2 miles to 68th Ave S.E.

Then go East on 68th Ave S.E. Approximately 1 mile to Patterson Blvd.

Then go North on Patterson Blvd. Approximately 1.66 miles to 55 Ave S.E.

Then follow 55 Ave S.E. West. When it ends continue to follow the Lime Rock Trail North to the Monitoring Well.

The Bench Mark is 24 feet S 65° W from the East most corner of the Monitoring Well Pad.

The Bench Mark is a SFWMD 2" Aluminum disk set in Cap rock.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT1W5
MARKER
SO

# South Florida Water Management District
## Benchmark Database

*Report run on: July 6, 2007 3:25 PM*

Designation: SGT2W1
County: COLLIER
USGS Quad BELLE MEADE SE
Project: SGT2W1 WELL SITE

Sec: 14 Twp: 50 Rge: 27

Status:

**NAD 1927 Coordinates:**
N =
E =
Adjustment:

**NAD 1983 Coordinates:**
X =
Y =
Adjustment:
Order:
Class:

Latitude: 260640.600 Scaled values only
Longitude: 813512.700
Monument By: SOUTHERN MAPPING TECHLOGY
Year: 2004
Type: V
Stamping: SGT2W1
Party Chief:
Field Book 65
Page: 9

**NGVD 1929**
Elevation: 10.900
Order: 3
Class:

**NAVD 1988**
Elevation: 9.560
Order: 3
Class:

Description:

FROM THE INTERSECTION OF I-75 AND EVERGLADES BLVD. GO SOUTH APPROXIMATELY 2.7 MILES TO 68TH AVE S.E.
THEN FROM THE INTERSECTION OF EVERGLADES BLVD. & 68TH AVE S.E. GO WEST APPROXIMATELY 1.5 MILES TO MILLER BLVD.
THEN AT THE INTERSECTION OF 68TH AVE S.E. & MILLER BLVD. CONTINUE WEST ON 68TH AVE S.E. APPROXIMATELY 1.25MILES.
THIS WILL TAKE YOU TO A WIDE DIRT TRAIL THAT RUNS SOUTH. TAKE THAT TRAIL SOUTH APPROXIMATELY 342 FEET TO THE BENCH.
THE BENCH MARK IS 11 FEET FROM A BARB WIRE FENCE.
THE BENCH MARK IS A SFWMD 2" ALUMINUM DISK SET IN TOP OF A CLASS "C" POURED IN PLACE CONCRETE MONUMENT.

WELL HEAD EL. 13.48 NAVD 1988
EL. 14.82 NGVD 1929

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 2W2 |
| **Southern Golden Gates Estates** Unit 104 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 10 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 468532 | **Y (Northing)** 646777 | **EL.** = 9.27 (NAVD 88)<br>**EL.** = 10.61 (NGVD 29) |
|---|---|---|---|

**LATITUDE:** 26°06'42.87" N **LONGITUDE:** 81°34'18.52" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 2.7 miles to 68th Ave S.E.

Then from the Intersection of Everglades Blvd. & 68th Ave S.E. go West Approximately 1.5 miles to Miller Blvd.

Then at the Intersection of 68th Ave S.E. & Miller Blvd. Continue West on 68th Ave S.E. Approximately 0.25miles.

Then from the Centerline of 68th Ave S.E. go South 167 feet to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


SO. FLA. WATER MANAGEMENT DIST.
SURVEY
SGT2W2
MARKER

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 2W3 |
| **Southern Golden Gate Estates Unit** 121 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 12 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 479311 | **Y (Northing)** 645691 | **EL.** = 7.22 (NAVD 88)<br>**EL.** = 8.56 (NGVD 29) |
|---|---|---|---|

**LATITUDE:** 26°06'32.57" N **LONGITUDE:** 81°32'20.22" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 3 miles to 70th Ave S.E.

From the Intersection of Everglades Blvd. & 70th Ave S.E. go East on 70th Ave S.E. for 1281 feet.

Then from the Centerline of 70th Ave S.E. go South 43 feet to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT2W3
MARKER
OS

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 2W4 |
| **Section** 22 (HITD) | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake South West | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 2 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 493373 | **Y (Northing)** 645804 | **EL.** = 9.76 (NAVD 88)<br>**EL.** = 11.10 (NGVD 29) |
|---|---|---|---|
| **LATITUDE:** 26°06'34.25" N | **LONGITUDE:** 81°29'45.96" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.75 miles to Berson Blvd.

Then go East on Berson Blvd. Approximately 2.9 Miles to Merritt Blvd.

The go South on Merritt Blvd. Approximately 2.25 miles the end of Merritt Blvd.(end of Limestone Road).

Then go South 32 feet from the end of Merritt Blvd. To the Bench Mark.

The Bench Mark is SFWMD 2" Aluminum Disk set in Cap Rock.


WATER MANAGEMENT DIST.
SGT 2W4
SUPVR.
PLAT
SO. TAMPA

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 2W5 |
| **Southern Golden Gate Estates** Unit 124 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake South West | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 3 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 499850 | **Y (Northing)** 645966 | **EL.** = 9.44 (NAVD) **EL.** = 10.78 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°06'36.09" N **LONGITUDE:** 81°28'34.91" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.75 miles to Berson Blvd.
Then go East on Berson Blvd. Approximately 2.9 Miles to Merritt Blvd.
The go South on Merritt Blvd. Approximately 2 miles to 68th Ave S.E.
Then go East on 68th Ave S.E. Approximately 1 mile to Patterson Blvd.
Then go South on Patterson 0.25 Miles to 70th Ave S.E.
Then go East on 70th Ave S.E. Approximately 1.1 Miles. The Bench Mark is to the North of the Road.
The Bench Mark 26 feet N 60° W from the Northwest corner of the Well Pad
The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


SO. FLA. WATER MANAGEMENT DISTRICT
SURVEY
S GT 2W5
MARKER

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 2W6 |
| **Southern Golden Gate Estates** Unit 135 | **TOWNSHIP** 50 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake South West | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 4 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 504936 | **Y (Northing)** 639795 | **EL. =** 8.68 (NAVD) **EL.** = 10.02 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°05'35.15" N **LONGITUDE:** 81°27'38.87" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 0.75 miles to Berson Blvd.
Then go East on Berson Blvd. Approximately 2.9 Miles to Merritt Blvd.
The go South on Merritt Blvd. Approximately 2 miles to 68th Ave S.E.
Then go East on 68th Ave S.E. Approximately 1 mile to Patterson Blvd.
Then go South on Patterson Blvd. Approximately 1.38 miles to 79th Ave S.E.
The go East on 79th Ave S.E. 6114 feet. Then from the Centerline go 271 feet South to the Bench Mark.
The Bench Mark is a SFWMD 2" Aluminum Disk set in Cap Rock.


WATER MANAGEMENT
SURVEY
SGT2W6
MARKER
FLA. SO. DIST.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W1 |
| **Section** 2 (Belle Meade) | **TOWNSHIP** 51 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 11 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 468279 | **Y (Northing)** 625653 | **EL.** = 5.49 (NAVD)<br>**EL.** = 6.83 (NGVD) |
|---|---|---|---|
| **LATITUDE:** 26°03'13.64" N | **LONGITUDE:** 81°34'20.27" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.

Then go West on Steward Blvd. Approximately 1.8 miles to the end Steward Blvd.

Then take a Dirt Trail Road 367 feet S 60° W to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


WATER MANAGEMENT DIST.
SURVEY
SGT3W1
MARKER
FLA.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W2 |
| **Southern Golden Gate Estates Unit** 141 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 13 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 471299 | **Y (Northing)** 625932 | **EL.** = 6.32 (NAVD)<br>**EL.** = 7.66 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°03'16.54" N **LONGITUDE:** 81°33'47.17" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.
Then go west on Steward Blvd. Approximately 1.5 miles to Miller Blvd.
At the Intersection of Steward Blvd. & Miller Blvd. Go East on Steward for 1050 feet.
Then from the Centerline of Steward Blvd. Go North 77 feet to the Bench Mark.
The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT 3W2
MARKER
SO
US

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W3 |
| **Southern Golden Gate Estates Unit** 142 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 14 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 478254 | **Y (Northing)** 624128 | **EL.** = 5.65 (NAVD)<br>**EL.** = 6.99 (NGVD) |
|---|---|---|---|

| | |
|---|---|
| **LATITUDE:** 26°02'58.96" N | **LONGITUDE:** 81°32'30.83" W |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.9 miles to 102nd Ave S.E.

From the Intersection of Everglades Blvd. & 102nd Ave S.E. go 418 feet South on Everglades Blvd.

Then from the Centerline of Everglades Blvd. Go East 35 feet to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum disk set in Cap Rock


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT3W3
MARKER

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W4 |
| **Southern Golden Gate Estates Unit** 145 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake South | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 15 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 492399 | **Y (Northing)** 626110 | **EL.** = 6.86 (NAVD)<br>**EL.** = 8.20 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°03'19.15" N **LONGITUDE:** 81°29'55.81" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.

Then go East on Steward Blvd. Approximately 2.9 miles to the Intersection of Steward Blvd. & Merritt Blvd.

Then go West on Steward Blvd. Approximately 1160 feet.

Then from the Centerline of Steward Blvd. Go 41.5 feet North to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum disk set in top of a Class "C" Poured in Place Concrete Monument.


WATER MANAGEMENT DIST.
SURVEY
SGT3W4
FLA.
MARKER
U.S.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W5 |
| **Southern Golden Gate Estates** Unit 147 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake South West | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 5 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 501232 | **Y (Northing)** 626172 | **EL.** = 7.58 (NAVD) **EL.** = 8.92 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°03'20.09" N **LONGITUDE:** 81°28'18.96" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.
Then go East on Steward Blvd. Approximately 3.9 Miles to the Intersection of Steward Blvd. & Patterson Blvd.
Then Continue East on Steward Blvd. Approximately 0.45 Miles up to the Bench Mark in the middle of the Road.
The Temporary Bench Mark is 12.2 feet North of the Well Pad.
The Temporary Bench Mark is a 2" SFWMD disk set on top a 24" Pipe recessed Below Surface of Pavement Centerline with Concrete Collar.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT3W5
MARKER

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W6 |
| **Southern Golden Gate Estates Unit** 154 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake Southwest | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 18 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 504010 | **Y(Northing)** 620919 | **EL.** = 6.77 (NAVD)<br>**EL.** = 8.11 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°02'28.16" N **LONGITUDE:** 81°27'48.29" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.

Then go East on Steward Blvd. Approximately 3.9 Miles to the Intersection of Steward Blvd. & Patterson Blvd.

Then go South on Patterson Blvd. Approximately 1 mile to the Intersection of Patterson Blvd. And 108th Ave S.E.

Then go East on 108th Ave S.E. 5003 feet. From the Centerline of 108th Ave S.E. go North 34 feet to the Bench .

The Bench Mark is a SFWMD 2" Aluminum Disk set in Cap Rock.


ELP. WATER MANAGEMENT DIST.
SURVEY
SGT3W6
MARKER
SO.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 3W7 |
| **Section** 7 (Fakahatchee)) | **TOWNSHIP** 51 **SOUTH** | **RANGE** 29 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** _____S.M.T._____ | **NAME OF QUADRANGLE:** Deep Lake Southwest | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 16 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 511310 | **Y (Northing)** 623352 | **EL. =** 8.82 (NAVD) **EL.** = 10.16 (NGVD) |
|---|---|---|---|

| | |
|---|---|
| **LATITUDE:** 26°02'52.51" N | **LONGITUDE:** 81°26'28.35" W |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.
Then go East on Steward Blvd. Approximately 5.2 miles to Janes Scenic Drive.
Take Janes Scenic Drive to the Boundary of Southern Golden Gate Estates Approximately 1377.91 feet.
Continue East on Janes Scenic Drive Approximately 1 Mile to a 4' X 10' Metal Sign on the South West Side of the Road and reads "Fakahatchee Strand Preserve State Park".
The Bench Mark is 25.4 feet N 42° W from the Western edge of the Sign.
The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT3W7
MARKER
SO

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W1 |
| **Section** 14 (Belle Meade) | **TOWNSHIP** 51 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 17 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 468340 | **Y(Northing)** 616463 | **EL.** = 4.81 (NAVD) **EL.** = 6.15 (NGVD) |
|---|---|---|---|
| **LATITUDE:** 26°01'42.63" N | **LONGITUDE:** 81°34'19.16" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.

Then go West on Steward blvd. Approximately 1.5 Miles to Miller Blvd.

Then go South on Miller Blvd. Approximately 1.75 Miles to 114th Ave S.E.

Go West on 114th Ave S.E. to the end of the Road. Then follow the Dirt Trail off to the Southwest.

Take the Dirt Trail up to where the Water Monitoring Well is, which is South of the Trail.

The Bench Mark is located 31.8 feet N 07° W off the Northeast Corner of the Well Pad.

The Bench Mark is a SFWMD 2" Aluminum Disk set in top of a Class "C" Poured in Place Concrete Monument.


WATER MANAGEMENT DIST.
SURVEY
SGT 4W1
MARKER
FLA.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W2 |
| **Southern Golden Gate Estates Unit** 161 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 27 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 44 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 470396 | **Y(Northing)** 614839 | **EL.** = 5.73 (NAVD)<br>**EL.** = 7.07 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°01'26.63" N **LONGITUDE:** 81°33'56.55" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.
Then go West on Steward Blvd. Approximately 1.5 miles to Miller Blvd.
Then go South Approximately 2 miles to 116th Ave S.E.
Then go South on Miller Blvd. 410 feet. The Bench is located 48.5 feet East of the Centerline of Miller Blvd.
The Mark is a SFWMD 2" Aluminum disk set in Cap Rock.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT4W2
MARKER

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W3 |
| **Southern Golden Gate Estates Unit** 163 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 43 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 476522 | **Y(Northing)** 607359 | **EL. =** 4.56 (NAVD) **EL.** = 5.90 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°00'12.80" N **LONGITUDE:** 81°32'49.05" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 10.2 miles to Lynch Blvd.

Then go West on Lynch Approximately 1821 feet.

The Bench is set 14 feet South of The Centerline of Lynch Blvd.

The Mark is a SFWMD 2" aluminum disk set in Cap Rock.


WATER MANAGEMENT
SURVEY
TBM
SGT4W3
MARKER
DS

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W4 |
| **Southern Golden Gates Estates Unit** 163 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 42 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 478281 | **Y(Northing)** 612732 | **EL.** = 4.47 (NAVD)<br>**EL.** = 5.81 (NGVD) |
|---|---|---|---|
| **LATITUDE:** 26°01'06.09" N | **LONGITUDE:** 81°32'30.01" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 9.2 miles to 120th Ave S.E.

At the Intersection of Everglades Blvd. & 120th Ave S.E. go North 62 feet.

The Bench Mark is 41 feet West of the Centerline of Everglades Blvd.

The Mark is CERP Monument R 598, which is a Steel Rod in a Monument Case with a Lid.


GEODETIC CONTROL MARK
PROPERTY OF CHURCH
U.S. INTERCHANGE OF U.S. 81
DIRECTOR NATIONAL GEODETIC SURVEY
CHURCH PARK
WASHINGTON, D.C.

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W5 |
| **Southern Golden Gate Estates Unit** 158 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Belle Meade Southeast | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 20 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| **STATE PLANE COORDINATES** Feet | **X (Easting)** 488340 | **Y(Northing)** 615454 | **EL.** = 4.53 (NAVD)<br>**EL.** = 5.87 (NGVD) |
|---|---|---|---|

**LATITUDE:** 26°01'33.45" N **LONGITUDE:** 81°30'39.86" W

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 Miles to Steward Blvd.

Then go East on Steward Blvd. Approximately 1.8 Miles to Desoto Blvd.

At the Intersection of Steward Blvd. & Desoto Blvd. Go South on Desoto Approximately 2 Miles to 116th Ave S.E.

At the Intersection of Desoto Blvd. & 116th Ave S.E. go East on 116th Ave Approximately 350 feet.

Then go North 37 feet from the Centerline of 116th Ave. S.E. to the Bench Mark.

The Mark is a SFWMD 2" Aluminum disk set in Cap Rock.


FLA. WATER MANAGEMENT DIST.
SURVEY
SGT4W5
MARKER
SO

*SOUTH FLORIDA WATER MANAGEMENT DISTRICT*

| | | |
|---|---|---|
| **COUNTY:** Collier | **PROJECT:** South Golden Gate Estates | **DESIGNATION:** SGT 4W6 |
| **Southern Golden Gate Estates Unit** 156 | **TOWNSHIP** 51 **SOUTH** | **RANGE** 28 **EAST** |
| **GEOGRAPHIC INDEX OF QUAD:** Florida | | |
| **Established by** S.M.T. | **NAME OF QUADRANGLE:** Deep Lake Southwest | |
| **SURVEYOR:** Jim S. Richmond **DATE:** 12/20/04 | **FIELD BOOK:** 65 **PAGE:** 19 | |
| **HORIZONTAL DATUM**: 83/90 **ZONE**: East | | |
| **VERTICAL DATUM:** NAVD 88 & NGVD 29 (Superseded) | | |
| **CONTROL ACCURACY: HORIZONTAL** WAAS **VERTICAL 1 2 (3)** | | |

| | | | |
|---|---|---|---|
| **STATE PLANE COORDINATES** Feet | **X (Easting)** 499097 | **Y(Northing)** 615917 | **EL.** = 5.91' (NAVD)<br>**EL. =** 7.25' (NGVD) |
| **LATITUDE:** 26°01'38.44" N | **LONGITUDE:** 81°28'41.96" W | | |

**DESCRIPTION**

From the Intersection of I-75 and Everglades Blvd. Go South Approximately 6.7 miles to Steward Blvd.

Then go East on Steward Blvd. Approximately 3.9 Miles to the Intersection of Steward Blvd. & Patterson Blvd.

Then go South on Patterson Blvd. Approximately 2 miles to the Intersection of Patterson Blvd. & 116th Ave S.E.

Then go North 380 feet. From the Centerline of Patterson Blvd. Go East 49 feet to the Bench Mark.

The Bench Mark is a SFWMD 2" Aluminum Disk set in Cap Rock.


WATER MANAGEMENT
SURVEY
SGT 4 W6
MARKER
DIST.
BLM

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1         National Geodetic Survey,   Retrieval Date = MAY  4, 2016
 AD8641 ***********************************************************************
 AD8641  DESIGNATION -  5028 182 9247
 AD8641  PID         -  AD8641
 AD8641  STATE/COUNTY-  FL/COLLIER
 AD8641  COUNTRY     -  US
 AD8641  USGS QUAD   -  BELLE MEADE SE (1973)
 AD8641
 AD8641                        *CURRENT SURVEY CONTROL
 AD8641  ___________________________________________________________________
 AD8641* NAD 83(2011) POSITION- 26 06 45.63869(N) 081 32 34.25191(W)   ADJUSTED
 AD8641* NAD 83(2011) ELLIP HT-   -21.313 (meters)        (06/27/12)   ADJUSTED
 AD8641* NAD 83(2011) EPOCH   -  2010.00
 AD8641* NAVD 88 ORTHO HEIGHT -     2.466 (meters)        8.09  (feet) ADJUSTED
 AD8641  ___________________________________________________________________
 AD8641  NAD 83(2011) X  -    842,830.260 (meters)                     COMP
 AD8641  NAD 83(2011) Y  - -5,668,503.750 (meters)                     COMP
 AD8641  NAD 83(2011) Z  -  2,790,267.185 (meters)                     COMP
 AD8641  LAPLACE CORR    -         -1.65  (seconds)                    DEFLEC12B
 AD8641  GEOID HEIGHT    -        -23.785 (meters)                     GEOID12B
 AD8641  DYNAMIC HEIGHT  -          2.462 (meters)        8.08  (feet) COMP
 AD8641  MODELED GRAVITY -    979,041.5   (mgal)                      NAVD 88
 AD8641
 AD8641  VERT ORDER      -  SECOND    CLASS I
 AD8641
 AD8641  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AD8641  Standards:
 AD8641         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AD8641            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 AD8641  ------------------------------------------------------------------
 AD8641  NETWORK    1.00   1.96           0.36   0.45   1.00     -0.09552391
 AD8641  ------------------------------------------------------------------
 AD8641  Click here for local accuracies and other accuracy information.
 AD8641
 AD8641
 AD8641.The horizontal coordinates were established by GPS observations
 AD8641.and adjusted by the National Geodetic Survey in June 2012.
 AD8641
 AD8641.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AD8641.frame has been affixed to the stable North American tectonic plate. See
 AD8641.NA2011 for more information.
 AD8641
 AD8641.The horizontal coordinates are valid at the epoch date displayed above
 AD8641.which is a decimal equivalence of Year/Month/Day.
 AD8641
 AD8641.The orthometric height was determined by differential leveling and
 AD8641.adjusted by the NATIONAL GEODETIC SURVEY
 AD8641.in January 2008.
 AD8641
 AD8641.Significant digits in the geoid height do not necessarily reflect accuracy.
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AD8641.GEOID12B height accuracy estimate available here.
AD8641
AD8641.Photographs are available for this station.
AD8641
AD8641.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AD8641
AD8641.The Laplace correction was computed from DEFLEC12B derived deflections.
AD8641
AD8641.The ellipsoidal height was determined by GPS observations
AD8641.and is referenced to NAD 83.
AD8641
AD8641.The dynamic height is computed by dividing the NAVD 88
AD8641.geopotential number by the normal gravity value computed on the
AD8641.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8641.degrees latitude (g = 980.6199 gals.).
AD8641
AD8641.The modeled gravity was interpolated from observed gravity values.
AD8641
AD8641. The following values were computed from the NAD 83(2011) position.
AD8641
AD8641;                     North         East     Units Scale Factor Converg.
AD8641;SPC FL E     -   197,210.722   145,705.969   MT  0.99997756   -0 14 20.2
AD8641;SPC FL E     -   647,015.51    478,037.00   sFT  0.99997756   -0 14 20.2
AD8641;UTM  17      - 2,888,275.416   445,724.494   MT  0.99963637   -0 14 20.2
AD8641
AD8641!             -  Elev Factor  x  Scale Factor =   Combined Factor
AD8641!SPC FL E     -   1.00000335  x   0.99997756  =   0.99998091
AD8641!UTM  17      -   1.00000335  x   0.99963637  =   0.99963972
AD8641
AD8641                          SUPERSEDED SURVEY CONTROL
AD8641
AD8641  NAD 83(2007)-  26 06 45.63881(N)    081 32 34.25270(W) AD(2002.00) 0
AD8641  ELLIP H (02/10/07)  -21.288  (m)                       GP(2002.00)
AD8641  NAD 83(1999)-  26 06 45.63822(N)    081 32 34.25352(W) AD(       ) 1
AD8641  ELLIP H (05/31/01)  -21.231  (m)                       GP(       ) 4 1
AD8641  NAD 83(1990)-  26 06 45.63639(N)    081 32 34.25342(W) AD(       ) 1
AD8641  ELLIP H (08/02/93)  -21.266  (m)                       GP(       ) 4 1
AD8641  NAVD 88 (12/01/04)    2.5    (m)  GEOID03 model used   GPS OBS
AD8641  NAVD 88 (08/02/93)    2.5    (m)  GEOID93 model used   GPS OBS
AD8641
AD8641.Superseded values are not recommended for survey control.
AD8641
AD8641.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8641.See file dsdata.txt to determine how the superseded data were derived.
AD8641
AD8641_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4572488275(NAD 83)
AD8641
AD8641_MARKER: DD = SURVEY DISK
AD8641_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD8641_STAMPING: 5028-182 9247 1992
AD8641_MARK LOGO: DENI
AD8641_PROJECTION: FLUSH
AD8641_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
AD8641_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD8641+STABILITY: SURFACE MOTION
AD8641_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8641+SATELLITE: SATELLITE OBSERVATIONS - December 01, 2004
AD8641
AD8641  HISTORY     - Date     Condition        Report By
AD8641  HISTORY     - 1992     MONUMENTED       DENI
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AD8641  HISTORY     - 20040123 GOOD             FLDEP
AD8641  HISTORY     - 20041201 GOOD             INDIV
AD8641
AD8641                          STATION DESCRIPTION
AD8641
AD8641'DESCRIBED BY DENI ASSOCIATES INCORPORATED 1992
AD8641'STATION IS LOCATED IN THE SOUTHEAST QUARTER OF SECTION 18, TWP 50S,
AD8641'RGE 28E, 15.8 MI (25.4 KM) EAST SOUTHEAST OF NAPLES.  TO REACH FROM
AD8641'THE JUNCTION OF I-75/STATE ROUTE 84 AND CO.ROAD 951, EXIT 15, 6.8 MI
AD8641'(10.9 KM) EAST OF NAPLES, GO NORTH ON CO.ROAD 951 FOR 4.7 MI
AD8641'(7.6 KM) TO GOLDEN GATE BLVD, THEN EAST FOR 8.9 MI (14.3 KM) TO
AD8641'EVERGLADES BLVD, THEN SOUTH FOR 5.3 MI (8.5 KM) ON EVERGLADES BLVD TO
AD8641'THE OVERPASS OF I-75/STATE ROUTE 84 (NO EXIT), THEN CONTINUE SOUTH
AD8641'2.8 MI (4.5 KM) TO 68TH AVE AND THE STATION IN THE SOUTHEAST QUADRANT
AD8641'OF THE INTERSECTION.
AD8641'STATION IS 21.5 FEET EAST OF THE CENTERLINE OF EVERGLADES BLVD, 18.4
AD8641'FT (5.6 M) SOUTH OF THE CENTER OF 68TH STREET (GRAVEL), 28.0 FT
AD8641'(8.5 M) SOUTHEAST OF THE CENTERLINE INTERSECTION.
AD8641'STATION MARK IS A DENI ASSOC 3.25 INCH ALUMINIUM GPS SURVEY MARK DISK
AD8641'SET IN TOP OF 8 INCH ROUND CONCRETE MONUMENT, 2 INCHES BELOW GROUND
AD8641'LEVEL. NO WITNESS POST SET DUE TO VANDALISM IN AREA.
AD8641
AD8641                          STATION RECOVERY (2004)
AD8641
AD8641'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (BPJ)
AD8641'THE MARK IS ABOUT 15.8 MI EAST-SOUTHEAST OF NAPLES, ESTIMATED SECTION
AD8641'18, TOWNSHIP 50  SOUTH, RANGE 28 EAST.
AD8641'
AD8641'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
AD8641'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
AD8641'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
AD8641'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
AD8641'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
AD8641'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
AD8641'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
AD8641'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
AD8641'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
AD8641'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
AD8641'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
AD8641'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 2.8 MI TO
AD8641'THE INTERSECTION OF 68TH AVENUE  SE AND THE MARK ON THE LEFT, AN
AD8641'ALUMINUM DISK SET IN THE TOP OF A ROUND CONCRETE  MONUMENT, FLUSH WITH
AD8641'GROUND AND LEVEL WITH EVERGLADES BOULEVARD.
AD8641'
AD8641'LOCATED 21.5 FT EAST OF THE APPROXIMATE CENTERLINE OF EVERGLADES
AD8641'BOULEVARD, 18.4 FT  SOUTH OF THE APPROXIMATE CENTERLINE OF 68TH AVENUE
AD8641'AND 3.0 FT WEST OF A CARSONITE  WITNESS POST.
AD8641
AD8641                          STATION RECOVERY (2004)
AD8641
AD8641'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2004 (FWL)
AD8641'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:03
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# The NGS Data Sheet

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 AD8642 ***********************************************************************
 AD8642  DESIGNATION -  5128 022 9252
 AD8642  PID         -  AD8642
 AD8642  STATE/COUNTY-  FL/COLLIER
 AD8642  USGS QUAD   -  DEEP LAKE SW (1973)
 AD8642
 AD8642                         *CURRENT SURVEY CONTROL
 AD8642  ______________________________________________________________________
 AD8642* NAD 83(1999)-  26 03 19.49820(N)    081 28 43.71422(W)     ADJUSTED
 AD8642* NAVD 88     -         2.1    (meters)       7.     (feet)  GPS OBS
 AD8642  ______________________________________________________________________
 AD8642  X           -     849,578.557 (meters)                     COMP
 AD8642  Y           -  -5,670,316.410 (meters)                     COMP
 AD8642  Z           -   2,784,569.231 (meters)                     COMP
 AD8642  LAPLACE CORR-          -2.20  (seconds)                    DEFLEC99
 AD8642  ELLIP HEIGHT-         -21.70  (meters)          (05/31/01) GPS OBS
 AD8642  GEOID HEIGHT-         -23.76  (meters)                     GEOID03
 AD8642
 AD8642  HORZ ORDER  -  FIRST
 AD8642  ELLP ORDER  -  FOURTH    CLASS I
 AD8642
 AD8642.The horizontal coordinates were established by GPS observations
 AD8642.and adjusted by the National Geodetic Survey in May 2001.
 AD8642
 AD8642.The orthometric height was determined by GPS observations and a
 AD8642.high-resolution geoid model.
 AD8642
 AD8642.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AD8642
 AD8642.The Laplace correction was computed from DEFLEC99 derived deflections.
 AD8642
 AD8642.The ellipsoidal height was determined by GPS observations
 AD8642.and is referenced to NAD 83.
 AD8642
 AD8642.The geoid height was determined by GEOID03.
 AD8642
 AD8642;                    North         East     Units Scale Factor Converg.
 AD8642;SPC FL E     -   190,841.891   152,087.674   MT  0.99996951   -0 12 37.1
 AD8642;UTM  17      - 2,881,908.758   452,104.021   MT  0.99962832   -0 12 37.1
 AD8642
 AD8642!             -  Elev Factor  x  Scale Factor =   Combined Factor
 AD8642!SPC FL E     -   1.00000341  x   0.99996951  =   0.99997292
 AD8642!UTM  17      -   1.00000341  x   0.99962832  =   0.99963173
 AD8642
 AD8642                          SUPERSEDED SURVEY CONTROL
 AD8642
 AD8642  NAD 83(1990)-  26 03 19.49598(N)    081 28 43.71394(W) AD(       ) 1
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AD8642  ELLIP H (08/02/93)  -21.74   (m)                        GP(       ) 4 1
AD8642
AD8642.Superseded values are not recommended for survey control.
AD8642.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8642.See file dsdata.txt to determine how the superseded data were derived.
AD8642
AD8642_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ5210481909(NAD 83)
AD8642_MARKER: DD = SURVEY DISK
AD8642_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD8642_STAMPING: 5128-022 9252 1992
AD8642_MARK LOGO: DENI
AD8642_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
AD8642_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD8642+STABILITY: SURFACE MOTION
AD8642_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8642+SATELLITE: SATELLITE OBSERVATIONS - 1992
AD8642
AD8642  HISTORY     - Date     Condition        Report By
AD8642  HISTORY     - 1992     MONUMENTED       DENI
AD8642
AD8642                          STATION DESCRIPTION
AD8642
AD8642'DESCRIBED BY DENI ASSOCIATES INCORPORATED 1992
AD8642'STATION IS LOCATED IN THE SOUTHEAST QUARTER OF SEC.2, TWP 51S, RGE
AD8642'28E, 20.6 MI (33.2 KM) SOUTHEAST OF NAPLES. TO REACH FROM THE
AD8642'JUNCTION OF I-75 AND CO.ROAD 951, EXIT 15, 6.8 MI (10.9 KM) EAST OF
AD8642'NAPLES, GO NORTH ON CO.ROAD 951 FOR 4.7 MI (7.6 KM) TO GOLDEN GATE
AD8642'BLVD, THEN EAST FOR 8.9 MI (14.3 KM) TO EVERGLADES BLVD, THEN SOUTH
AD8642'FOR 5.3 MI (8.5 KM) ON EVERGLADES BLVD TO THE OVERPASS OF I-75/STATE
AD8642'ROUTE 84 (NO EXIT), THEN CONTINUE SOUTH 6.8 MI (10.9 KM) TO 100TH
AD8642'AVE/STEWART BLVD, THEN EAST FOR 3.9 MI (6.3 KM) TO PATTERSON BLVD AND
AD8642'STATION IN THE SOUTHEAST QUADRANT OF INTERSECTION.
AD8642'STATION IS 18.7 FT (5.7 M) EAST OF CENTERLINE OF PATTERSON BLVD, 22.8
AD8642'FT (6.9 M) SOUTH OF CENTERLINE OF STEWART BLVD, 28.7 FT (8.7 M)
AD8642'SOUTHEAST OF CENTERLINE INTERSECTION.
AD8642'STATION MARK IS A DENI ASSOC 3.25 INCH ALUMINUM GPS SURVEY MARK DISK
AD8642'SET IN TOP OF 8 INCH ROUND CONCRETE MONUMENT, 4 INCHES BELOW GROUND
AD8642'LEVEL. VANDAL HAMMER DAMAGE TO DISK, WITNESS POST NOT SET.

*** retrieval complete.
Elapsed Time = 00:00:01
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# The NGS Data Sheet

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 AD8643 ***********************************************************************
 AD8643  DESIGNATION -  5128 062 9248
 AD8643  PID         -  AD8643
 AD8643  STATE/COUNTY-  FL/COLLIER
 AD8643  USGS QUAD   -  BELLE MEADE SE (1973)
 AD8643
 AD8643                        *CURRENT SURVEY CONTROL
 AD8643  ______________________________________________________________________
 AD8643* NAD 83(1999)-  26 03 16.39139(N)    081 32 31.18294(W)      ADJUSTED
 AD8643* NAVD 88     -         1.62   (meters)       5.3    (feet)   GPS OBS
 AD8643  ______________________________________________________________________
 AD8643  X           -     843,330.963 (meters)                      COMP
 AD8643  Y           -  -5,671,291.193 (meters)                      COMP
 AD8643  Z           -   2,784,483.227 (meters)                      COMP
 AD8643  LAPLACE CORR-          -2.07  (seconds)                     DEFLEC99
 AD8643  ELLIP HEIGHT-         -21.95  (meters)          (05/31/01) GPS OBS
 AD8643  GEOID HEIGHT-         -23.64  (meters)                     GEOID03
 AD8643
 AD8643  HORZ ORDER  -  FIRST
 AD8643  ELLP ORDER  -  FOURTH    CLASS I
 AD8643
 AD8643.The horizontal coordinates were established by GPS observations
 AD8643.and adjusted by the National Geodetic Survey in May 2001.
 AD8643
 AD8643.The orthometric height was determined by GPS observations and a
 AD8643.high-resolution geoid model using precise GPS observation and
 AD8643.processing techniques.
 AD8643
 AD8643.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AD8643
 AD8643.The Laplace correction was computed from DEFLEC99 derived deflections.
 AD8643
 AD8643.The ellipsoidal height was determined by GPS observations
 AD8643.and is referenced to NAD 83.
 AD8643
 AD8643.The geoid height was determined by GEOID03.
 AD8643
 AD8643;                    North         East     Units Scale Factor Converg.
 AD8643;SPC FL E     -   190,771.024   145,764.450   MT  0.99997748   -0 14 17.0
 AD8643;UTM  17      - 2,881,837.915   445,782.955   MT  0.99963629   -0 14 17.0
 AD8643
 AD8643!             -  Elev Factor  x  Scale Factor =   Combined Factor
 AD8643!SPC FL E     -   1.00000345  x   0.99997748  =   0.99998093
 AD8643!UTM  17      -   1.00000345  x   0.99963629  =   0.99963974
 AD8643
 AD8643                         SUPERSEDED SURVEY CONTROL
 AD8643
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AD8643  NAD 83(1990)-  26 03 16.38934(N)    081 32 31.18285(W) AD(       ) 1
AD8643  ELLIP H (08/02/93)  -22.01   (m)                       GP(       ) 4 1
AD8643
AD8643.Superseded values are not recommended for survey control.
AD8643.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8643.See file dsdata.txt to determine how the superseded data were derived.
AD8643
AD8643_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4578381838(NAD 83)
AD8643_MARKER: DD = SURVEY DISK
AD8643_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD8643_STAMPING: 5128-062 9248 1992
AD8643_MARK LOGO: DENI
AD8643_PROJECTION: RECESSED 5 CENTIMETERS
AD8643_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
AD8643_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD8643+STABILITY: SURFACE MOTION
AD8643_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8643+SATELLITE: SATELLITE OBSERVATIONS - January 23, 2004
AD8643
AD8643  HISTORY     - Date     Condition        Report By
AD8643  HISTORY     - 1992     MONUMENTED       DENI
AD8643  HISTORY     - 20040123 GOOD             FLDEP
AD8643
AD8643                          STATION DESCRIPTION
AD8643
AD8643'DESCRIBED BY DENI ASSOCIATES INCORPORATED 1992
AD8643'STATION IS LOCATED IN THE SOUTHEAST QUARTER OF SEC.6, TWP 51S, RGE
AD8643'28E, 16.8 MI (27.0 KM) SOUTHEAST OF NAPLES.  TO REACH FROM THE
AD8643'JUNCTION OF I-75/STATE ROUTE 84 AND CO.ROAD 951, EXIT 15, 6.8 MI
AD8643'(10.9 KM) EAST OF NAPLES, GO NORTH ON CO.ROAD 951 FOR 4.7 MI
AD8643'(7.6 KM) TO GOLDEN GATE BLVD, THEN EAST FOR 8.9 MI (14.3 KM) TO
AD8643'EVERGLADES BLVD, THEN SOUTH FOR 5.3 MI (8.5 KM) ON EVERGLADES BLVD TO
AD8643'THE OVERPASS OF I-75/STATE ROUTE 84 (NO EXIT), THEN CONTINUE SOUTH
AD8643'6.8 MI (10.9 KM) TO 100TH AVE AND THE STATION IN THE SOUTHEAST
AD8643'QUADRANT OF THE INTERSECTION.
AD8643'STATION IS 22.8 FT (6.9 M) EAST OF THE CENTERLINE OF EVERGLADES BLVD,
AD8643'26.3 FEET SOUTH OF THE CENTERLINE OF 100TH AVE, 35.4 FT (10.8 M)
AD8643'SOUTHEAST OF THE CENTERLINE INTERSECTION.
AD8643'STATION MARK IS A DENI ASSOC 3.25 INCH ALUMINUM GPS SURVEY MARK DISK
AD8643'SET IN TOP OF 9 INCH ROUND CONCRETE MONUMENT, 1 INCH BELOW GROUND
AD8643'LEVEL. VANDAL HAMMER DAMAGE TO DISK, WITNESS POST NOT SET.
AD8643
AD8643                          STATION RECOVERY (2004)
AD8643
AD8643'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (BPJ)
AD8643'THE MARK IS ABOUT 16.0 MI SOUTHEAST OF NAPLES, IN SECTION 6, TOWNSHIP
AD8643'51 SOUTH, RANGE 28  EAST.
AD8643'
AD8643'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
AD8643'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
AD8643'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
AD8643'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
AD8643'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
AD8643'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
AD8643'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
AD8643'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
AD8643'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
AD8643'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
AD8643'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
AD8643'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 6.8 MI TO
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AD8643'THE INTERSECTION OF 100TH AVENUE  SE AND THE MARK ON THE LEFT, AN
AD8643'ALUMINUM DISK SET IN THE TOP OF A ROUND CONCRETE  MONUMENT RECESSED
AD8643'0.2 FT BELOW THE LEVEL OF THE GROUND AND BELOW THE LEVEL OF
AD8643'EVERGLADES BOULEVARD.
AD8643'
AD8643'LOCATED 26.3 FT SOUTH OF THE APPROXIMATE CENTERLINE OF 100TH AVENUE
AD8643'SE, 22.8 FT EAST OF  THE APPROXIMATE CENTERLINE OF EVERGLADES
AD8643'BOULEVARD, 3.0 FT NORTH OF A STOP SIGN AND 2.8  FT WEST OF A CARSONITE
AD8643'WITNESS POST.

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

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 AD8645 ***********************************************************************
 AD8645  DESIGNATION -  5128 301 9249
 AD8645  PID         -  AD8645
 AD8645  STATE/COUNTY-  FL/COLLIER
 AD8645  USGS QUAD   -  BELLE MEADE SE (1973)
 AD8645
 AD8645                        *CURRENT SURVEY CONTROL
 AD8645  ______________________________________________________________________
 AD8645* NAD 83(1999)-  26 00 12.86267(N)    081 32 29.08578(W)      ADJUSTED
 AD8645* NAVD 88     -         1.10   (meters)       3.6    (feet)   GPS OBS
 AD8645  ______________________________________________________________________
 AD8645  X           -     843,753.142 (meters)                      COMP
 AD8645  Y           -  -5,673,733.779 (meters)                      COMP
 AD8645  Z           -   2,779,407.913 (meters)                      COMP
 AD8645  LAPLACE CORR-          -2.10  (seconds)                     DEFLEC99
 AD8645  ELLIP HEIGHT-         -22.37  (meters)          (05/31/01) GPS OBS
 AD8645  GEOID HEIGHT-         -23.55  (meters)                     GEOID03
 AD8645
 AD8645  HORZ ORDER  -  FIRST
 AD8645  ELLP ORDER  -  FOURTH    CLASS I
 AD8645
 AD8645.The horizontal coordinates were established by GPS observations
 AD8645.and adjusted by the National Geodetic Survey in May 2001.
 AD8645
 AD8645.The orthometric height was determined by GPS observations and a
 AD8645.high-resolution geoid model using precise GPS observation and
 AD8645.processing techniques.
 AD8645
 AD8645.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AD8645
 AD8645.The Laplace correction was computed from DEFLEC99 derived deflections.
 AD8645
 AD8645.The ellipsoidal height was determined by GPS observations
 AD8645.and is referenced to NAD 83.
 AD8645
 AD8645.The geoid height was determined by GEOID03.
 AD8645
 AD8645;                    North         East     Units Scale Factor Converg.
 AD8645;SPC FL E     -   185,122.941   145,799.324   MT  0.99997744   -0 14 14.6
 AD8645;UTM  17      - 2,876,191.760   445,817.817   MT  0.99963625   -0 14 14.6
 AD8645
 AD8645!             -  Elev Factor  x  Scale Factor =   Combined Factor
 AD8645!SPC FL E     -   1.00000351  x   0.99997744  =   0.99998095
 AD8645!UTM  17      -   1.00000351  x   0.99963625  =   0.99963976
 AD8645
 AD8645                          SUPERSEDED SURVEY CONTROL
 AD8645
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AD8645  NAD 83(1990)-  26 00 12.86047(N)    081 32 29.08578(W) AD(       ) 1
AD8645  ELLIP H (08/02/93)  -22.46   (m)                       GP(       ) 4 1
AD8645
AD8645.Superseded values are not recommended for survey control.
AD8645.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8645.See file dsdata.txt to determine how the superseded data were derived.
AD8645
AD8645_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4581876192(NAD 83)
AD8645_MARKER: DD = SURVEY DISK
AD8645_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD8645_STAMPING: 5128-301 9249 1992
AD8645_MARK LOGO: DENI
AD8645_PROJECTION: RECESSED 10 CENTIMETERS
AD8645_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
AD8645_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD8645+STABILITY: SURFACE MOTION
AD8645_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8645+SATELLITE: SATELLITE OBSERVATIONS - January 23, 2004
AD8645
AD8645  HISTORY     - Date     Condition        Report By
AD8645  HISTORY     - 1992     MONUMENTED       DENI
AD8645  HISTORY     - 20040123 GOOD             FLDEP
AD8645
AD8645                          STATION DESCRIPTION
AD8645
AD8645'DESCRIBED BY DENI ASSOCIATES INCORPORATED 1992
AD8645'STATION IS LOCATED IN THE NORTHEAST QUARTER OF SEC.30, TWP 51S, RGE
AD8645'28E, 18.5 MI (29.8 KM) SOUTHEAST OF NAPLES.  TO REACH FROM THE
AD8645'JUNCTION OF I-75 AND CO.ROAD 951, EXIT 15, 6.8 MI (10.9 KM) EAST OF
AD8645'NAPLES, GO NORTH ON CO.ROAD 951 FOR 4.7 MI (7.6 KM) TO GOLDEN GATE
AD8645'BLVD, THEN EAST FOR 8.9 MI (14.3 KM) TO EVERGLADES BLVD, THEN SOUTH
AD8645'FOR 5.3 MI (8.5 KM) ON EVERGLADES BLVD TO THE OVERPASS OF I-75/STATE
AD8645'ROUTE 84 (NO EXIT), THEN CONTINUE SOUTH 10.3 MI (16.6 KM) TO LYNCH
AD8645'BLVD AND STATION IN THE SOUTHWEST QUADRANT OF THE INTERSECTION.
AD8645'STATION IS 26.6 FT (8.1 M) WEST OF THE CENTERLINE OF EVERGLADES BLVD,
AD8645'31.0 FEET SOUTH OF THE CENTERLINE OF LYNCH BLVD, 41.0 FEET SOUTHWEST
AD8645'OF THE CENTERLINE INTERSECTION.
AD8645'STATION MARK IS A DENI ASSOC 3.25 INCH ALUMINUM GPS SURVEY MARK DISK
AD8645'SET IN TOP OF 8 INCH ROUND CONCRETE MONUMENT, 1 INCH BELOW GROUND
AD8645'LEVEL. NO WITNESS POST SET DUE TO VANDALISM IN AREA.
AD8645
AD8645                          STATION RECOVERY (2004)
AD8645
AD8645'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (BPJ)
AD8645'THE MARK IS ABOUT 16.0 MI SOUTHEAST OF NAPLES, IN SECTION 30, TOWNSHIP
AD8645'51 SOUTH, RANGE 28  EAST.
AD8645'
AD8645'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
AD8645'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
AD8645'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
AD8645'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
AD8645'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
AD8645'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
AD8645'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
AD8645'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
AD8645'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
AD8645'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
AD8645'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
AD8645'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 10.3 MI TO
AD8645'THE INTERSECTION OF LYNCH  BOULEVARD AND THE MARK ON THE RIGHT, AN
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AD8645'ALUMINUM DISK SET IN THE TOP OF A ROUND  CONCRETE MONUMENT RECESSED
AD8645'0.4 FT BELOW THE LEVEL OF THE GROUND AND ABOUT 0.8 FT  BELOW THE LEVEL
AD8645'OF EVERGLADES BOULEVARD.
AD8645'
AD8645'LOCATED 50.2 FT NORTH OF A DEAD END SIGN ON THE WEST SIDE OF
AD8645'EVERGLADES BOULEVARD, 31.0  FT SOUTH OF THE APPROXIMATE CENTERLINE OF
AD8645'LYNCH BOULEVARD, 26.6 FT WEST OF THE  APPROXIMATE CENTERLINE OF
AD8645'EVERGLADES BOULEVARD AND 6.7 FT SOUTH-SOUTHEAST OF A STOP  SIGN.

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

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

```
PROGRAM = datasheet95, VERSION = 8.11
1         National Geodetic Survey,   Retrieval Date = JANUARY 19, 2017
 DG8595 ***********************************************************************
 DG8595  DESIGNATION -  COLL 0026
 DG8595  PID         -  DG8595
 DG8595  STATE/COUNTY-  FL/COLLIER
 DG8595  COUNTRY     -  US
 DG8595  USGS QUAD   -  BELLE MEADE SE (1973)
 DG8595
 DG8595                        *CURRENT SURVEY CONTROL
 DG8595  ___________________________________________________________________
 DG8595* NAD 83(2011) POSITION- 26 00 12.54776(N) 081 33 11.60169(W)   ADJUSTED
 DG8595* NAD 83(2011) ELLIP HT-   -20.748 (meters)        (06/27/12)   ADJUSTED
 DG8595* NAD 83(2011) EPOCH   -  2010.00
 DG8595* NAVD 88 ORTHO HEIGHT -     2.854 (meters)        9.36  (feet) ADJUSTED
 DG8595  ___________________________________________________________________
 DG8595  GEOID HEIGHT    -        -23.590 (meters)                     GEOID12B
 DG8595  NAD 83(2011) X  -    842,584.476 (meters)                     COMP
 DG8595  NAD 83(2011) Y  - -5,673,913.220 (meters)                     COMP
 DG8595  NAD 83(2011) Z  -  2,779,399.914 (meters)                     COMP
 DG8595  LAPLACE CORR    -         -1.91  (seconds)                    DEFLEC12B
 DG8595  DYNAMIC HEIGHT  -          2.850 (meters)        9.35  (feet) COMP
 DG8595  MODELED GRAVITY -    979,035.1   (mgal)                       NAVD 88
 DG8595
 DG8595  VERT ORDER      -  SECOND    CLASS I
 DG8595
 DG8595  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 DG8595  Standards:
 DG8595         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 DG8595            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 DG8595  ------------------------------------------------------------------
 DG8595  NETWORK    1.05   2.12           0.38   0.47   1.08     -0.08302875
 DG8595  ------------------------------------------------------------------
 DG8595  Click here for local accuracies and other accuracy information.
 DG8595
 DG8595
 DG8595.The horizontal coordinates were established by GPS observations
 DG8595.and adjusted by the National Geodetic Survey in June 2012.
 DG8595
 DG8595.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 DG8595.been affixed to the stable North American tectonic plate. See
 DG8595.NA2011 for more information.
 DG8595
 DG8595.The horizontal coordinates are valid at the epoch date displayed above
 DG8595.which is a decimal equivalence of Year/Month/Day.
 DG8595
 DG8595.The orthometric height was determined by differential leveling and
 DG8595.adjusted by the NATIONAL GEODETIC SURVEY
 DG8595.in January 2008.
 DG8595
 DG8595.Significant digits in the geoid height do not necessarily reflect accuracy.
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DG8595.GEOID12B height accuracy estimate available here.
DG8595
DG8595.Photographs are available for this station.
DG8595
DG8595.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DG8595
DG8595.The Laplace correction was computed from DEFLEC12B derived deflections.
DG8595
DG8595.The ellipsoidal height was determined by GPS observations
DG8595.and is referenced to NAD 83.
DG8595
DG8595.The dynamic height is computed by dividing the NAVD 88
DG8595.geopotential number by the normal gravity value computed on the
DG8595.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG8595.degrees latitude (g = 980.6199 gals.).
DG8595
DG8595.The modeled gravity was interpolated from observed gravity values.
DG8595
DG8595. The following values were computed from the NAD 83(2011) position.
DG8595
DG8595;                     North         East     Units Scale Factor Converg.
DG8595;SPC FL E     -   185,118.202   144,616.967   MT  0.99997903   -0 14 33.2
DG8595;SPC FL E     -   607,341.97    474,464.17   sFT  0.99997903   -0 14 33.2
DG8595;UTM  17      - 2,876,187.022   444,635.864   MT  0.99963785   -0 14 33.2
DG8595
DG8595!             -  Elev Factor  x  Scale Factor =   Combined Factor
DG8595!SPC FL E     -   1.00000326  x   0.99997903  =   0.99998229
DG8595!UTM  17      -   1.00000326  x   0.99963785  =   0.99964111
DG8595
DG8595_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4463576187(NAD 83)
DG8595
DG8595                          SUPERSEDED SURVEY CONTROL
DG8595
DG8595  NAD 83(2007)-  26 00 12.54799(N)    081 33 11.60243(W) AD(2002.00) 0
DG8595  ELLIP H (02/10/07)  -20.713  (m)                       GP(2002.00)
DG8595  NAD 83(1999)-  26 00 12.54779(N)    081 33 11.60322(W) AD(       ) 1
DG8595  ELLIP H (12/01/04)  -20.641  (m)                       GP(       ) 3 1
DG8595  NAVD 88 (12/01/04)    2.8    (m)  GEOID03 model used   GPS OBS
DG8595
DG8595.Superseded values are not recommended for survey control.
DG8595
DG8595.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DG8595.See file dsdata.txt to determine how the superseded data were derived.
DG8595
DG8595_MARKER: DD = SURVEY DISK
DG8595_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DG8595_SP_SET: BRIDGE CURB
DG8595_STAMPING: COLL 0026 JAX FLA 2002
DG8595_MARK LOGO: USE
DG8595_MAGNETIC: N = NO MAGNETIC MATERIAL
DG8595_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DG8595_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8595+SATELLITE: SATELLITE OBSERVATIONS - February 17, 2004
DG8595
DG8595  HISTORY     - Date     Condition        Report By
DG8595  HISTORY     - 2002     MONUMENTED       USE
DG8595  HISTORY     - 20040123 GOOD             FLDEP
DG8595  HISTORY     - 20040217 GOOD             FLDEP
DG8595
DG8595                          STATION DESCRIPTION
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DG8595
DG8595'DESCRIBED BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8595'THE MARK IS ABOUT 15.6 MI SOUTHEAST OF NAPLES, IN SECTION 30, TOWNSHIP
DG8595'51 SOUTH, RANGE 28  EAST.
DG8595'
DG8595'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8595'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8595'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8595'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8595'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8595'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8595'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8595'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8595'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8595'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8595'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8595'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 10.3 MI TO
DG8595'THE INTERSECTION OF LYNCH  BOULEVARD, TURN RIGHT ON LYNCH BOULEVARD
DG8595'AND GO WEST FOR 0.75 MI TO THE MARK ON THE  LEFT, SET FLUSH IN THE TOP
DG8595'OF THE SOUTHEAST CORNER OF THE CONCRETE BRIDGE CURB, 0.5 FT  ABOVE THE
DG8595'LEVEL OF LYNCH BOULEVARD.
DG8595'
DG8595'LOCATED 13.8 FT SOUTH OF THE APPROXIMATE CENTERLINE OF LYNCH
DG8595'BOULEVARD, 4.8 FT WEST OF  THE EAST END OF THE BRIDGE GUARDRAIL AND
DG8595'3.3 FT EAST OF THE EAST END OF THE BRIDGE.
DG8595
DG8595                          STATION RECOVERY (2004)
DG8595
DG8595'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8595'RECOVERED AS DESCRIBED.

*** 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.**

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PROGRAM = datasheet95, VERSION = 8.8
1         National Geodetic Survey,   Retrieval Date = MAY  4, 2016
 DG8586 ***********************************************************************
 DG8586  DESIGNATION -  H 598
 DG8586  PID         -  DG8586
 DG8586  STATE/COUNTY-  FL/COLLIER
 DG8586  COUNTRY     -  US
 DG8586  USGS QUAD   -  BELLE MEADE NE (1973)
 DG8586
 DG8586                        *CURRENT SURVEY CONTROL
 DG8586  ___________________________________________________________________
 DG8586* NAD 83(2011) POSITION- 26 08 59.65022(N) 081 32 36.92663(W)   ADJUSTED
 DG8586* NAD 83(2011) ELLIP HT-   -20.408 (meters)        (06/27/12)   ADJUSTED
 DG8586* NAD 83(2011) EPOCH   -  2010.00
 DG8586* NAVD 88 ORTHO HEIGHT -     3.432 (meters)       11.26  (feet) ADJUSTED
 DG8586  ___________________________________________________________________
 DG8586  NAD 83(2011) X  -    842,489.757 (meters)                     COMP
 DG8586  NAD 83(2011) Y  - -5,666,718.815 (meters)                     COMP
 DG8586  NAD 83(2011) Z  -  2,793,970.230 (meters)                     COMP
 DG8586  LAPLACE CORR    -         -1.50  (seconds)                    DEFLEC12B
 DG8586  GEOID HEIGHT    -        -23.850 (meters)                     GEOID12B
 DG8586  DYNAMIC HEIGHT  -          3.426 (meters)       11.24  (feet) COMP
 DG8586  MODELED GRAVITY -    979,042.9   (mgal)                      NAVD 88
 DG8586
 DG8586  VERT ORDER      -  SECOND    CLASS I
 DG8586
 DG8586  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 DG8586  Standards:
 DG8586         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 DG8586            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 DG8586  ------------------------------------------------------------------
 DG8586  NETWORK    0.95   1.88           0.35   0.42   0.96     -0.10645546
 DG8586  ------------------------------------------------------------------
 DG8586  Click here for local accuracies and other accuracy information.
 DG8586
 DG8586
 DG8586.The horizontal coordinates were established by GPS observations
 DG8586.and adjusted by the National Geodetic Survey in June 2012.
 DG8586
 DG8586.NAD 83(2011) refers to NAD 83 coordinates where the reference
 DG8586.frame has been affixed to the stable North American tectonic plate. See
 DG8586.NA2011 for more information.
 DG8586
 DG8586.The horizontal coordinates are valid at the epoch date displayed above
 DG8586.which is a decimal equivalence of Year/Month/Day.
 DG8586
 DG8586.The orthometric height was determined by differential leveling and
 DG8586.adjusted by the NATIONAL GEODETIC SURVEY
 DG8586.in January 2008.
 DG8586
 DG8586.Significant digits in the geoid height do not necessarily reflect accuracy.
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```
DG8586.GEOID12B height accuracy estimate available here.
DG8586
DG8586.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DG8586
DG8586.The Laplace correction was computed from DEFLEC12B derived deflections.
DG8586
DG8586.The ellipsoidal height was determined by GPS observations
DG8586.and is referenced to NAD 83.
DG8586
DG8586.The dynamic height is computed by dividing the NAVD 88
DG8586.geopotential number by the normal gravity value computed on the
DG8586.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG8586.degrees latitude (g = 980.6199 gals.).
DG8586
DG8586.The modeled gravity was interpolated from observed gravity values.
DG8586
DG8586. The following values were computed from the NAD 83(2011) position.
DG8586
DG8586;                    North         East     Units Scale Factor Converg.
DG8586;SPC FL E     -   201,335.109   145,648.890   MT  0.99997764   -0 14 22.5
DG8586;SPC FL E     -   660,546.94    477,849.73   sFT  0.99997764   -0 14 22.5
DG8586;UTM  17      - 2,892,398.396   445,667.434   MT  0.99963645   -0 14 22.5
DG8586
DG8586!             -  Elev Factor  x  Scale Factor =   Combined Factor
DG8586!SPC FL E     -   1.00000321  x   0.99997764  =   0.99998085
DG8586!UTM  17      -   1.00000321  x   0.99963645  =   0.99963966
DG8586
DG8586:                Primary Azimuth Mark                     Grid Az
DG8586:SPC FL E     -  U 526                                    333 56 44.9
DG8586:UTM  17      -  U 526                                    333 56 44.9
DG8586
DG8586|---------------------------------------------------------------------|
DG8586| PID    Reference Object                     Distance      Geod. Az  |
DG8586|                                                           dddmmss.s |
DG8586| AJ6591 U 526                              409.378 METERS 3334222.4 |
DG8586|---------------------------------------------------------------------|
DG8586
DG8586                          SUPERSEDED SURVEY CONTROL
DG8586
DG8586  NAD 83(2007)-  26 08 59.65036(N)    081 32 36.92741(W) AD(2002.00) 0
DG8586  ELLIP H (02/10/07)  -20.383  (m)                       GP(2002.00)
DG8586  NAD 83(1999)-  26 08 59.65056(N)    081 32 36.92826(W) AD(       ) 1
DG8586  ELLIP H (12/01/04)  -20.302  (m)                       GP(       ) 3 1
DG8586  NAVD 88 (12/01/04)    3.4    (m)  GEOID03 model used   GPS OBS
DG8586
DG8586.Superseded values are not recommended for survey control.
DG8586
DG8586.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DG8586.See file dsdata.txt to determine how the superseded data were derived.
DG8586
DG8586_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4566792398(NAD 83)
DG8586
DG8586_MARKER: F = FLANGE-ENCASED ROD
DG8586_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DG8586_STAMPING: H 598 2004
DG8586_MARK LOGO: NGS
DG8586_PROJECTION: RECESSED 5 CENTIMETERS
DG8586_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG8586_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DG8586_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
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DG8586+SATELLITE: SATELLITE OBSERVATIONS - August 05, 2008
DG8586_ROD/PIPE-DEPTH: 14.5 meters
DG8586
DG8586  HISTORY     - Date     Condition        Report By
DG8586  HISTORY     - 20040204 MONUMENTED       FLDEP
DG8586  HISTORY     - 20040123 GOOD             FLDEP
DG8586  HISTORY     - 20080805 GOOD             PICKET
DG8586
DG8586                          STATION DESCRIPTION
DG8586
DG8586'DESCRIBED BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8586'THE MARK IS ABOUT 16.0 MI EAST OF NAPLES, ESTIMATED SECTION 6,
DG8586'TOWNSHIP 50 SOUTH, RANGE 28  EAST.
DG8586'
DG8586'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8586'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8586'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8586'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8586'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8586'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8586'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8586'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8586'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8586'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8586'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8586'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 0.2 MI TO
DG8586'THE MARK ON THE RIGHT, A  STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A
DG8586'DEPTH OF 47.5 FT WITH A NGS LOGO CAP  RECESSED 0.2 FT BELOW THE LEVEL
DG8586'OF THE GROUND AND ABOUT 0.6 FT BELOW THE LEVEL OF  EVERGLADES
DG8586'BOULEVARD, THE DATUM POINT IS RECESSED 0.4 FT BELOW THE LEVEL OF THE
DG8586'NGS  LOGO CAP.
DG8586'
DG8586'LOCATED APPROXIMATELY 513.0 FT SOUTH OF THE SOUTH END OF THE GUARDRAIL
DG8586'ON THE WEST  SIDE OF EVERGLADES BOULEVARD, 64.0 FT EAST OF THE
DG8586'CENTERLINE OF A NORTH-SOUTH PAVED  ROAD, 43.0 FT WEST OF THE
DG8586'CENTERLINE OF EVERGLADES BOULEVARD, 4.5 FT SOUTHEAST OF THE  SOUTHWEST
DG8586'CORNER OF A PICAYUNE STATE FOREST SIGN AND 0.7 FT SOUTH OF A CARSONITE
DG8586'WITNESS POST.
DG8586'
DG8586'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.
DG8586'
DG8586'NOTE A MAGNET WAS PLACED INSIDE OF THE NGS LOGO CAP.
DG8586
DG8586                          STATION RECOVERY (2004)
DG8586
DG8586'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8586'RECOVERED AS DESCRIBED.
DG8586
DG8586                          STATION RECOVERY (2008)
DG8586
DG8586'RECOVERY NOTE BY PICKETT AND ASSOCIATES 2008 (JM)
DG8586'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.**

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 DG8587 ***********************************************************************
 DG8587  DESIGNATION -  J 598
 DG8587  PID         -  DG8587
 DG8587  STATE/COUNTY-  FL/COLLIER
 DG8587  USGS QUAD   -  BELLE MEADE NE (1973)
 DG8587
 DG8587                        *CURRENT SURVEY CONTROL
 DG8587  ______________________________________________________________________
 DG8587* NAD 83(1999)-  26 08 28.55496(N)    081 32 36.23734(W)      ADJUSTED
 DG8587* NAVD 88     -         2.81   (meters)        9.2    (feet)  GPS OBS
 DG8587  ______________________________________________________________________
 DG8587  X           -     842,570.641 (meters)                      COMP
 DG8587  Y           -  -5,667,132.655 (meters)                      COMP
 DG8587  Z           -   2,793,110.971 (meters)                      COMP
 DG8587  LAPLACE CORR-          -1.71  (seconds)                     DEFLEC99
 DG8587  ELLIP HEIGHT-         -20.91  (meters)          (12/01/04) GPS OBS
 DG8587  GEOID HEIGHT-         -23.79  (meters)                      GEOID03
 DG8587
 DG8587  HORZ ORDER  -  FIRST
 DG8587  ELLP ORDER  -  THIRD     CLASS I
 DG8587
 DG8587.The horizontal coordinates were established by GPS observations
 DG8587.and adjusted by the FL DEPT OF ENV PRO in December 2004.
 DG8587
 DG8587.The orthometric height was determined by GPS observations and a
 DG8587.high-resolution geoid model using precise GPS observation and
 DG8587.processing techniques.
 DG8587
 DG8587.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 DG8587
 DG8587.The Laplace correction was computed from DEFLEC99 derived deflections.
 DG8587
 DG8587.The ellipsoidal height was determined by GPS observations
 DG8587.and is referenced to NAD 83.
 DG8587
 DG8587.The geoid height was determined by GEOID03.
 DG8587
 DG8587;                    North         East     Units Scale Factor Converg.
 DG8587;SPC FL E     -   200,378.100   145,664.035   MT  0.99997762   -0 14 21.9
 DG8587;UTM  17      - 2,891,441.713   445,682.574   MT  0.99963643   -0 14 21.9
 DG8587
 DG8587!             -  Elev Factor  x  Scale Factor =   Combined Factor
 DG8587!SPC FL E     -   1.00000329  x   0.99997762  =   0.99998091
 DG8587!UTM  17      -   1.00000329  x   0.99963643  =   0.99963971
 DG8587
 DG8587                         SUPERSEDED SURVEY CONTROL
 DG8587
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DG8587.No superseded survey control is available for this station.
DG8587
DG8587_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4568391442(NAD 83)
DG8587_MARKER: DD = SURVEY DISK
DG8587_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG8587_STAMPING: J 598 2004
DG8587_MARK LOGO: FLDEP
DG8587_PROJECTION: RECESSED 5 CENTIMETERS
DG8587_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG8587_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG8587+STABILITY: SURFACE MOTION
DG8587_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8587+SATELLITE: SATELLITE OBSERVATIONS - February 04, 2004
DG8587
DG8587  HISTORY     - Date     Condition        Report By
DG8587  HISTORY     - 20040204 MONUMENTED       FLDEP
DG8587
DG8587                          STATION DESCRIPTION
DG8587
DG8587'DESCRIBED BY FL DEPT OF ENV PRO 2004 (PBM)
DG8587'THE MARK IS ABOUT 16.0 MI EAST OF NAPLES, ESTIMATED SECTION 6,
DG8587'TOWNSHIP 50 SOUTH, RANGE 28  EAST.
DG8587'
DG8587'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8587'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8587'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8587'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8587'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8587'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8587'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8587'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8587'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8587'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8587'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8587'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 0.8 MI TO
DG8587'THE MARK ON THE RIGHT, SET IN THE  TOP OF A ROUND CONCRETE MONUMENT
DG8587'RECESSED 0.2 FT BELOW THE LEVEL OF THE GROUND AND  ABOUT 0.8 FT BELOW
DG8587'THE LEVEL OF EVERGLADES BOULEVARD.
DG8587'
DG8587'LOCATED 185.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF AN EAST-WEST
DG8587'LIMEROCK ROAD,  27.0 FT WEST OF THE APPROXIMATE CENTERLINE OF
DG8587'EVERGLADES BOULEVARD AND 1.8 FT EAST OF A  CARSONITE WITNESS POST.
DG8587'
DG8587'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DG8587'MONUMENT.

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

# The NGS Data Sheet

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1        National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 DG8589 ***********************************************************************
 DG8589  DESIGNATION -  L 598
 DG8589  PID         -  DG8589
 DG8589  STATE/COUNTY-  FL/COLLIER
 DG8589  USGS QUAD   -  BELLE MEADE SE (1973)
 DG8589
 DG8589                        *CURRENT SURVEY CONTROL
 DG8589  ______________________________________________________________________
 DG8589* NAD 83(1999)-  26 05 54.01843(N)    081 32 33.41105(W)     ADJUSTED
 DG8589* NAVD 88     -         1.96   (meters)       6.4    (feet)  GPS OBS
 DG8589  ______________________________________________________________________
 DG8589  X           -     842,956.127 (meters)                     COMP
 DG8589  Y           -  -5,669,191.403 (meters)                     COMP
 DG8589  Z           -   2,788,840.477 (meters)                     COMP
 DG8589  LAPLACE CORR-          -1.91  (seconds)                    DEFLEC99
 DG8589  ELLIP HEIGHT-         -21.69  (meters)          (12/01/04) GPS OBS
 DG8589  GEOID HEIGHT-         -23.71  (meters)                     GEOID03
 DG8589
 DG8589  HORZ ORDER  -  FIRST
 DG8589  ELLP ORDER  -  THIRD     CLASS I
 DG8589
 DG8589.The horizontal coordinates were established by GPS observations
 DG8589.and adjusted by the FL DEPT OF ENV PRO in December 2004.
 DG8589
 DG8589.The orthometric height was determined by GPS observations and a
 DG8589.high-resolution geoid model using precise GPS observation and
 DG8589.processing techniques.
 DG8589
 DG8589.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 DG8589
 DG8589.The Laplace correction was computed from DEFLEC99 derived deflections.
 DG8589
 DG8589.The ellipsoidal height was determined by GPS observations
 DG8589.and is referenced to NAD 83.
 DG8589
 DG8589.The geoid height was determined by GEOID03.
 DG8589
 DG8589;                    North         East     Units Scale Factor Converg.
 DG8589;SPC FL E     -   195,622.066   145,722.710   MT  0.99997754   -0 14 19.4
 DG8589;UTM  17      - 2,886,687.302   445,741.229   MT  0.99963635   -0 14 19.4
 DG8589
 DG8589!             -  Elev Factor  x  Scale Factor =   Combined Factor
 DG8589!SPC FL E     -   1.00000341  x   0.99997754  =   0.99998095
 DG8589!UTM  17      -   1.00000341  x   0.99963635  =   0.99963976
 DG8589
 DG8589                         SUPERSEDED SURVEY CONTROL
 DG8589
```

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DG8589.No superseded survey control is available for this station.
DG8589
DG8589_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4574186687(NAD 83)
DG8589_MARKER: DD = SURVEY DISK
DG8589_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG8589_STAMPING: L 598 2004
DG8589_MARK LOGO: FLDEP
DG8589_PROJECTION: RECESSED 10 CENTIMETERS
DG8589_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG8589_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG8589+STABILITY: SURFACE MOTION
DG8589_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8589+SATELLITE: SATELLITE OBSERVATIONS - February 04, 2004
DG8589
DG8589  HISTORY     - Date     Condition        Report By
DG8589  HISTORY     - 20040204 MONUMENTED       FLDEP
DG8589
DG8589                          STATION DESCRIPTION
DG8589
DG8589'DESCRIBED BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8589'THE MARK IS ABOUT 16.0 MI SOUTHEAST OF NAPLES, ESTIMATED SECTION 19,
DG8589'TOWNSHIP 50 SOUTH,  RANGE 28 EAST.
DG8589'
DG8589'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8589'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8589'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8589'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8589'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8589'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8589'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8589'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8589'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8589'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8589'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8589'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 3.8 MI TO
DG8589'THE INTERSECTION OF 76TH AVENUE  SE AND THE MARK ON THE LEFT, SET IN
DG8589'THE TOP OF A ROUND CONCRETE MONUMENT, RECESSED 0.4  FT BELOW THE LEVEL
DG8589'OF THE GROUND AND 1.0 FT BELOW THE LEVEL OF EVERGLADES BOULEVARD.
DG8589'
DG8589'LOCATED 49.5 FT NORTH OF THE APPROXIMATE CENTERLINE OF 76TH AVENUE SE,
DG8589'29.0 FT EAST OF  THE APPROXIMATE CENTERLINE OF EVERGLADES BOULEVARD
DG8589'AND 2.0 FT WEST OF A CARSONITE  WITNESS POST.
DG8589'
DG8589'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DG8589'MONUMENT.

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

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 DG8592 ***********************************************************************
 DG8592  DESIGNATION -  P 598
 DG8592  PID         -  DG8592
 DG8592  STATE/COUNTY-  FL/COLLIER
 DG8592  USGS QUAD   -  BELLE MEADE SE (1973)
 DG8592
 DG8592                        *CURRENT SURVEY CONTROL
 DG8592  ___________________________________________________________________
 DG8592* NAD 83(1999)-  26 02 36.68244(N)    081 32 30.66505(W)      ADJUSTED
 DG8592* NAVD 88     -         1.37   (meters)       4.5    (feet)   GPS OBS
 DG8592  ___________________________________________________________________
 DG8592  X           -     843,424.105 (meters)                      COMP
 DG8592  Y           -  -5,671,819.675 (meters)                      COMP
 DG8592  Z           -   2,783,385.236 (meters)                      COMP
 DG8592  LAPLACE CORR-          -2.08  (seconds)                     DEFLEC99
 DG8592  ELLIP HEIGHT-         -22.18  (meters)          (12/01/04) GPS OBS
 DG8592  GEOID HEIGHT-         -23.62  (meters)                     GEOID03
 DG8592
 DG8592  HORZ ORDER  -  FIRST
 DG8592  ELLP ORDER  -  THIRD     CLASS I
 DG8592
 DG8592.The horizontal coordinates were established by GPS observations
 DG8592.and adjusted by the FL DEPT OF ENV PRO in December 2004.
 DG8592
 DG8592.The orthometric height was determined by GPS observations and a
 DG8592.high-resolution geoid model using precise GPS observation and
 DG8592.processing techniques.
 DG8592
 DG8592.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 DG8592
 DG8592.The Laplace correction was computed from DEFLEC99 derived deflections.
 DG8592
 DG8592.The ellipsoidal height was determined by GPS observations
 DG8592.and is referenced to NAD 83.
 DG8592
 DG8592.The geoid height was determined by GEOID03.
 DG8592
 DG8592;                    North         East     Units Scale Factor Converg.
 DG8592;SPC FL E     -   189,548.973   145,773.771   MT  0.99997747   -0 14 16.5
 DG8592;UTM  17      - 2,880,616.281   445,792.273   MT  0.99963628   -0 14 16.5
 DG8592
 DG8592!             -  Elev Factor  x  Scale Factor =   Combined Factor
 DG8592!SPC FL E     -   1.00000348  x   0.99997747  =   0.99998095
 DG8592!UTM  17      -   1.00000348  x   0.99963628  =   0.99963976
 DG8592
 DG8592                          SUPERSEDED SURVEY CONTROL
 DG8592
```

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DG8592.No superseded survey control is available for this station.
DG8592
DG8592_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4579280616(NAD 83)
DG8592_MARKER: DD = SURVEY DISK
DG8592_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG8592_STAMPING: P 598 2004
DG8592_MARK LOGO: FLDEP
DG8592_PROJECTION: RECESSED 15 CENTIMETERS
DG8592_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG8592_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG8592+STABILITY: SURFACE MOTION
DG8592_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8592+SATELLITE: SATELLITE OBSERVATIONS - February 04, 2004
DG8592
DG8592  HISTORY     - Date     Condition        Report By
DG8592  HISTORY     - 20040204 MONUMENTED       FLDEP
DG8592
DG8592                          STATION DESCRIPTION
DG8592
DG8592'DESCRIBED BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8592'THE MARK IS ABOUT 16.0 MI SOUTHEAST OF NAPLES, IN SECTION 7, TOWNSHIP
DG8592'51 SOUTH, RANGE 28  EAST.
DG8592'
DG8592'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8592'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8592'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8592'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8592'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8592'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8592'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8592'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8592'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8592'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8592'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8592'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 7.55 MI TO
DG8592'THE INTERSECTION OF 106TH  AVENUE SE AND THE MARK ON THE LEFT, SET IN
DG8592'THE TOP OF A ROUND CONCRETE MONUMENT  RECESSED 0.6 FT BELOW THE LEVEL
DG8592'OF THE GROUND AND 0.6 FT BELOW THE LEVEL OF EVERGLADES  BOULEVARD.
DG8592'
DG8592'LOCATED 36.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF 106TH AVENUE
DG8592'SE, 19.2 FT EAST OF  THE APPROXIMATE CENTERLINE OF EVERGLADES
DG8592'BOULEVARD AND 1.4 FT WEST OF A CARSONITE  WITNESS POST.
DG8592'
DG8592'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DG8592'MONUMENT.

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

# The NGS Data Sheet

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

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DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10
1         National Geodetic Survey,   Retrieval Date = JANUARY 10, 2005
 DG8594 ***********************************************************************
 DG8594  DESIGNATION -  R 598
 DG8594  PID         -  DG8594
 DG8594  STATE/COUNTY-  FL/COLLIER
 DG8594  USGS QUAD   -  BELLE MEADE SE (1973)
 DG8594
 DG8594                        *CURRENT SURVEY CONTROL
 DG8594  ___________________________________________________________________
 DG8594* NAD 83(1999)-  26 01 06.08960(N)    081 32 30.01057(W)      ADJUSTED
 DG8594* NAVD 88     -         1.32   (meters)       4.3    (feet)   GPS OBS
 DG8594  ___________________________________________________________________
 DG8594  X           -     843,622.068 (meters)                      COMP
 DG8594  Y           -  -5,673,027.199 (meters)                      COMP
 DG8594  Z           -   2,780,880.107 (meters)                      COMP
 DG8594  LAPLACE CORR-          -2.09  (seconds)                     DEFLEC99
 DG8594  ELLIP HEIGHT-         -22.18  (meters)          (12/01/04) GPS OBS
 DG8594  GEOID HEIGHT-         -23.58  (meters)                     GEOID03
 DG8594
 DG8594  HORZ ORDER  -  FIRST
 DG8594  ELLP ORDER  -  THIRD     CLASS I
 DG8594
 DG8594.The horizontal coordinates were established by GPS observations
 DG8594.and adjusted by the FL DEPT OF ENV PRO in December 2004.
 DG8594
 DG8594.The orthometric height was determined by GPS observations and a
 DG8594.high-resolution geoid model using precise GPS observation and
 DG8594.processing techniques.
 DG8594
 DG8594.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 DG8594
 DG8594.The Laplace correction was computed from DEFLEC99 derived deflections.
 DG8594
 DG8594.The ellipsoidal height was determined by GPS observations
 DG8594.and is referenced to NAD 83.
 DG8594
 DG8594.The geoid height was determined by GEOID03.
 DG8594
 DG8594;                    North         East     Units Scale Factor Converg.
 DG8594;SPC FL E     -   186,761.028   145,780.398   MT  0.99997746   -0 14 15.4
 DG8594;UTM  17      - 2,877,829.288   445,798.898   MT  0.99963627   -0 14 15.4
 DG8594
 DG8594!             -  Elev Factor  x  Scale Factor =   Combined Factor
 DG8594!SPC FL E     -   1.00000348  x   0.99997746  =   0.99998094
 DG8594!UTM  17      -   1.00000348  x   0.99963627  =   0.99963975
 DG8594
 DG8594                          SUPERSEDED SURVEY CONTROL
 DG8594
```

```
DG8594.No superseded survey control is available for this station.
DG8594
DG8594_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ4579977829(NAD 83)
DG8594_MARKER: F = FLANGE-ENCASED ROD
DG8594_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DG8594+WITH SETTING: INFORMATION.
DG8594_STAMPING: R 598 2004
DG8594_MARK LOGO: NGS
DG8594_PROJECTION: RECESSED 3 CENTIMETERS
DG8594_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG8594_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DG8594_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8594+SATELLITE: SATELLITE OBSERVATIONS - February 04, 2004
DG8594_ROD/PIPE-DEPTH:  2.4 meters
DG8594
DG8594  HISTORY     - Date     Condition        Report By
DG8594  HISTORY     - 20040204 MONUMENTED       FLDEP
DG8594
DG8594                          STATION DESCRIPTION
DG8594
DG8594'DESCRIBED BY FL DEPT OF ENV PRO 2004 (BPJ)
DG8594'THE MARK IS ABOUT 16.0 MI EAST OF NAPLES, IN SECTION 19, TOWNSHIP 51
DG8594'SOUTH, RANGE 28 EAST.
DG8594'
DG8594'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 75 AND COUNTY
DG8594'ROAD 951 (EXIT 101,  COLLIER BOULEVARD) ON THE EAST SIDE OF NAPLES, GO
DG8594'NORTH ON COUNTY ROAD 951 (COLLIER  BOULEVARD) FOR 3.6 MI TO THE
DG8594'JUNCTION OF COUNTY ROAD 896 (PINE RIDGE ROAD) ON THE LEFT  AND WHITE
DG8594'BOULEVARD ON THE RIGHT, CONTINUE NORTH ON COUNTY ROAD 951 (COLLIER
DG8594'BOULEVARD) FOR 1.2 MI TO THE JUNCTION OF GOLDEN GATE BOULEVARD (COUNTY
DG8594'ROAD 876) ON THE  RIGHT, TURN RIGHT ON GOLDEN GATE BOULEVARD (COUNTY
DG8594'ROAD 876) AND GO EAST FOR 5.0 MI TO  THE INTERSECTION OF WILSON
DG8594'BOULEVARD, CONTINUE EAST ON GOLDEN GATE BOULEVARD  (COUNTY ROAD 876)
DG8594'FOR 3.85 MI TO THE INTERSECTION OF EVERGLADES BOULEVARD, TURN RIGHT
DG8594'ON EVERGLADES BOULEVARD AND GO SOUTH FOR 5.3 MI TO THE UNDERPASS OF
DG8594'INTERSTATE 75,  CONTINUE SOUTH ON EVERGLADES BOULEVARD FOR 9.3 MI TO
DG8594'THE MARK ON THE RIGHT, A  STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A
DG8594'DEPTH OF 7.8 FT WITH A NGS LOGO CAP  RECESSED 0.1 FT BELOW THE LEVEL
DG8594'OF THE GROUND AND ABOUT 0.5 FT ABOVE THE LEVEL OF  EVERGLADES
DG8594'BOULEVARD, THE DATUM POINT IS RECESSED 0.1 FT BELOW THE LEVEL OF THE
DG8594'NGS  LOGO CAP.
DG8594'
DG8594'LOCATED 62.3 FT NORTH OF THE APPROXIMATE CENTERLINE OF 120TH AVENUE
DG8594'SE, 41.5 FT WEST OF  THE APPROXIMATE CENTERLINE OF EVERGLADES
DG8594'BOULEVARD AND 1.5 FT EAST-SOUTHEAST OF A  CARSONITE WITNESS POST.
DG8594'
DG8594'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.
DG8594'
DG8594'NOTE A MAGNET WAS PLACED INSIDE OF THE NGS LOGO CAP.

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

# Points

### *Project : LINE1*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 8:51:56 AM 12/23/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD'88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| 9248 | ? | ? | 5.456 | |
| 1 | ? | ? | 6.059 | |
| 2 | ? | ? | 5.977 | |
| 3 | ? | ? | 6.198 | |
| 4 | ? | ? | 6.065 | |
| SGT3W3 | ? | ? | 5.650 | |
| 6 | ? | ? | 6.157 | |
| 7 | ? | ? | 6.165 | |
| 8 | ? | ? | 6.292 | |
| 9 | ? | ? | 6.284 | |
| 10 | ? | ? | 5.935 | |
| P598 | ? | ? | 4.647 | |

Back to top

# Level Report *(0001.DAT)*

## Contents



Back to top

## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| ✓9248 | 5.043sft | | | &nbsp5.456sft | 104.990sft | BM 48 1L-1 | |
| ✓1 | | | 4.440sft | 6.059sft | 94.420sft | BM 48 1L-1 | |
| | 5.026sft | | | | 208.100sft | BM 48 1L-1 | |
| ✓2 | | | 5.107sft | 5.978sft | 209.810sft | BM 48 1L-1 | |
| | 5.101sft | | | | 204.660sft | BM 48 1L-1 | |
| ✓3 | | | 4.880sft | 6.199sft | 207.550sft | BM 48 1L-1 | |
| | 4.827sft | | | | 204.490sft | BM 48 1L-1 | |
| ✓4 | | | 4.960sft | 6.066sft | 196.160sft | BM 48 1L-1 | |
| | 4.905sft | | | | 177.300sft | BM 48 1L-1 | |
| ✓SGT3W3 | | | 5.319sft | 5.652sft | 168.670sft | BM 48 1L-1 | |
| | 5.460sft | | | | 196.230sft | BM 48 1L-1 | |
| ✓6 | | | 4.953sft | 6.159sft | 199.210sft | BM 48 1L-1 | |
| | 4.906sft | | | | 206.200sft | BM 48 1L-1 | |
| ✓7 | | | 4.897sft | 6.168sft | 208.860sft | BM 48 1L-1 | |
| | 5.070sft | | | | 226.740sft | BM 48 1L-1 | |
| ✓8 | | | 4.943sft | 6.295sft | 238.060sft | BM 48 1L-1 | |
| | 4.360sft | | | | 199.470sft | BM 48 1L-1 | |
| ✓9 | | | 4.368sft | 6.287sft | 197.050sft | BM 48 1L-1 | |
| | 4.753sft | | | | 192.680sft | BM 48 1L-1 | |
| ✓10 | | | 5.101sft | 5.939sft | 195.410sft | BM 48 1L-1 | |
| | 4.410sft | | | | 92.910sft | BM 48 1L-1 | |
| ✓P598 | | | 5.698sft | 4.651sft | 100.750sft | BM 48 1L-1 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | 9248 | 1 | | 0.603sft |
| LR2 | 1 | 2 | | -0.081sft |
| LR3 | 2 | 3 | | 0.221sft |
| LR4 | 3 | 4 | | -0.133sft |
| LR5 | 4 | SGT3W3 | | -0.414sft |
| LR6 | SGT3W3 | 6 | | 0.507sft |
| LR7 | 6 | 7 | | 0.009sft |
| LR8 | 7 | 8 | | 0.127sft |
| LR9 | 8 | 9 | | -0.008sft |
| LR10 | 9 | 10 | | -0.348sft |
| LR11 | 10 | P598 | | -1.288sft |

Back to top

# Network Adjustment Report

***Project : LINE1***

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 8:42:15 AM 12/23/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD'88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

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## Adjustment Style Settings - 95% Confidence Limits

### Residual Tolerances

**To End Iterations** : 0.000033sft
**Final Convergence Cutoff** : 0.016404sft

### Covariance Display

**Horizontal**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96

**Three-Dimensional**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96
**Elevation Errors were used in the calculations.**

### Adjustment Controls

**Compute Correlations for Geoid** : False
**Horizontal and Vertical adjustment performed**

### Set-up Errors

**Terrestrial**
**Error in Height of Instrument** : 0.000sft
**Centering Error** : 0.000sft

Back to top

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## Statistical Summary

**Successful Adjustment in 1 iteration(s)**

**Network Reference Factor** : 0.17
**Chi Square Test (α=95%)** : PASS
**Degrees of Freedom** : 1.00

## Terrestrial Observation Statistics

**Reference Factor** : 0.17
**Redundancy Number (r)** : 1.00

**ΔElevations:** Reference Factor: 0.17 **(r):** 1.00

## Weighting Strategies

## Terrestrial Observations

**Default Scalar Applied to All Observations**

**Scalar** : 1.00

Back to top

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# Adjusted Coordinates

## Adjustment performed in WGS-84

**Number of Points** : 12
**Number of Constrained Points** : 2
**Elevation Only** : 2

## Adjusted Grid Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Northing | N error | Easting | E error | Elevation | e error | Fix |
|---|---|---|---|---|---|---|---|
| 9248 | N/A | N/A | N/A | N/A | 5.456sft | 0.000sft | e |
| 1 | N/A | N/A | N/A | N/A | 6.059sft | 0.002sft | |
| 2 | N/A | N/A | N/A | N/A | 5.977sft | 0.003sft | |
| 3 | N/A | N/A | N/A | N/A | 6.198sft | 0.003sft | |
| 4 | N/A | N/A | N/A | N/A | 6.065sft | 0.004sft | |
| SGT3W3 | N/A | N/A | N/A | N/A | 5.650sft | 0.004sft | |
| 6 | N/A | N/A | N/A | N/A | 6.157sft | 0.004sft | |
| 7 | N/A | N/A | N/A | N/A | 6.165sft | 0.004sft | |
| 8 | N/A | N/A | N/A | N/A | 6.292sft | 0.003sft | |
| 9 | N/A | N/A | N/A | N/A | 6.284sft | 0.003sft | |
| 10 | N/A | N/A | N/A | N/A | 5.935sft | 0.002sft | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P598 | N/A | N/A | N/A | N/A | 4.647sft | 0.000sft | e |

## Adjusted Geodetic Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Latitude | N error | Longitude | E error | Height | h error | Fix |
|---|---|---|---|---|---|---|---|
| 9248 | N/A | N/A | N/A | N/A | N/A | N/A | e |
| 1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 2 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT3W3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 6 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 7 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10 | N/A | N/A | N/A | N/A | N/A | N/A | |
| P598 | N/A | N/A | N/A | N/A | N/A | N/A | e |

## Coordinate Deltas

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight | ΔGeoid Separation |
|---|---|---|---|---|---|
| 9248 | N/A | N/A | 0.000sft | N/A | N/A |
| 1 | N/A | N/A | 0.000sft | N/A | N/A |
| 2 | N/A | N/A | -0.001sft | N/A | N/A |
| 3 | N/A | N/A | -0.001sft | N/A | N/A |
| 4 | N/A | N/A | -0.001sft | N/A | N/A |
| SGT3W3 | N/A | N/A | -0.002sft | N/A | N/A |
| 6 | N/A | N/A | -0.002sft | N/A | N/A |
| 7 | N/A | N/A | -0.003sft | N/A | N/A |
| 8 | N/A | N/A | -0.003sft | N/A | N/A |
| 9 | N/A | N/A | -0.003sft | N/A | N/A |
| 10 | N/A | N/A | -0.004sft | N/A | N/A |
| P598 | N/A | N/A | 0.000sft | N/A | N/A |

Back to top

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# Control Coordinate Comparisons

**Values shown are control coord minus adjusted coord.**

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight |
|---|---|---|---|---|
| 9248 | N/A | N/A | N/A | N/A |
| P598 | N/A | N/A | N/A | N/A |

Back to top

# Adjusted Observations

## Adjustment performed in WGS-84

## Terrestrial Observations

**Terrestrial Transformation Group**: <Terr. Default>

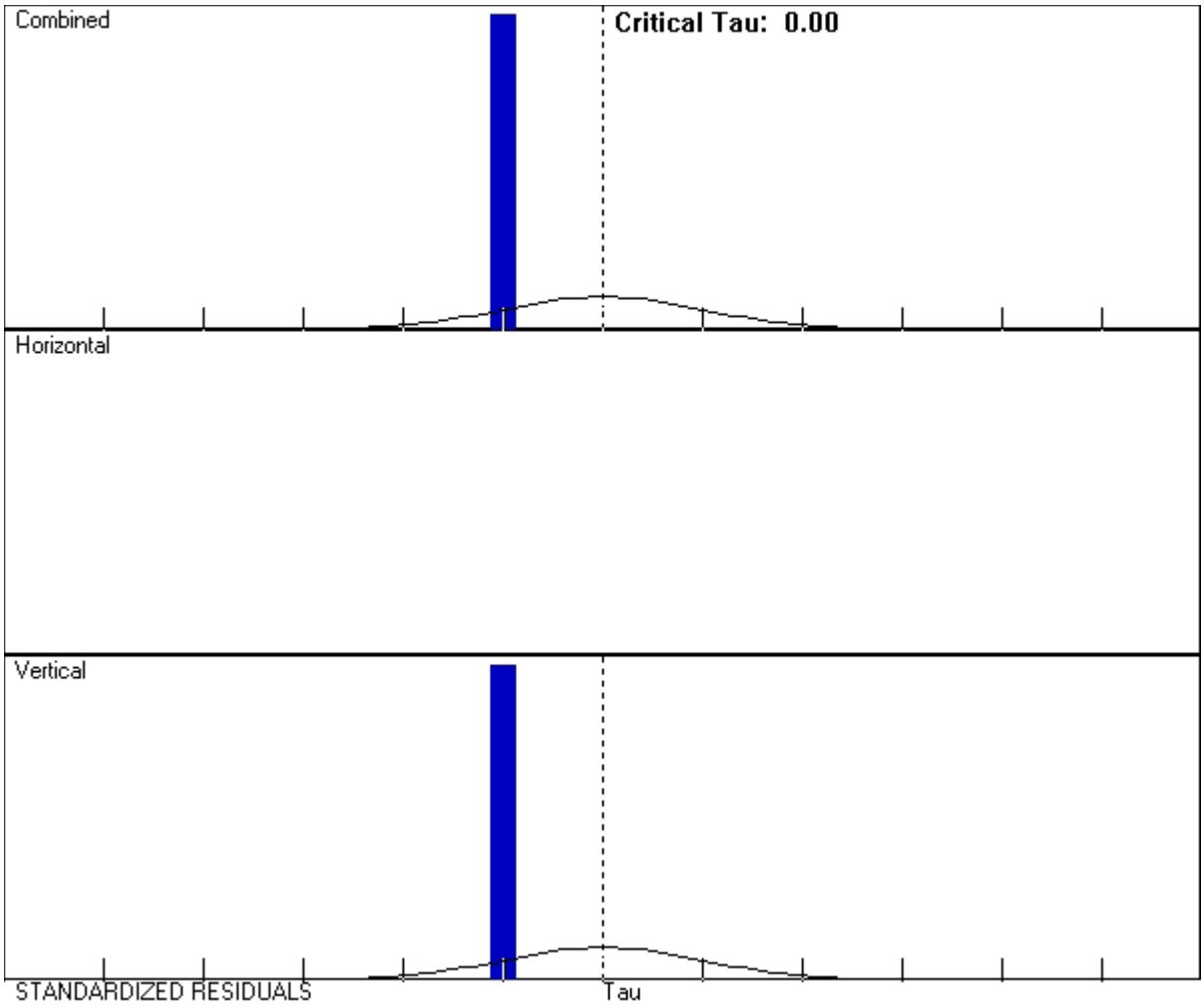
**Number of Observations** : 11
**Number of Outliers** : 11

**Observation Adjustment (Critical Tau = 0.00). Any outliers are in red.**

| Obs. ID | From | To | | Observation | A-posteriori Error (1.96σ) | Residual | Stand. Resid. |
|---|---|---|---|---|---|---|---|
| LR14 | 2 | 3 | ΔElev. | 0.221sft | 0.002sft | 0.000sft | -1.00 |
| LR17 | SGT3W3 | 6 | ΔElev. | 0.507sft | 0.002sft | 0.000sft | -1.00 |
| LR12 | 9248 | 1 | ΔElev. | 0.603sft | 0.002sft | 0.000sft | -1.00 |
| LR13 | 1 | 2 | ΔElev. | -0.081sft | 0.002sft | 0.000sft | -1.00 |
| LR16 | 4 | SGT3W3 | ΔElev. | -0.414sft | 0.002sft | 0.000sft | -1.00 |
| LR18 | 6 | 7 | ΔElev. | 0.009sft | 0.002sft | 0.000sft | -1.00 |
| LR21 | 9 | 10 | ΔElev. | -0.348sft | 0.002sft | 0.000sft | -1.00 |
| LR15 | 3 | 4 | ΔElev. | -0.133sft | 0.002sft | 0.000sft | -1.00 |
| LR19 | 7 | 8 | ΔElev. | 0.127sft | 0.002sft | 0.000sft | -1.00 |
| LR20 | 8 | 9 | ΔElev. | -0.008sft | 0.002sft | 0.000sft | -1.00 |
| LR22 | 10 | P598 | ΔElev. | -1.288sft | 0.002sft | 0.000sft | -1.00 |

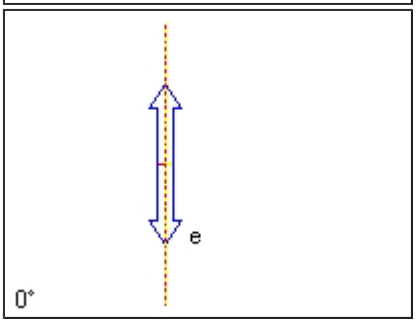
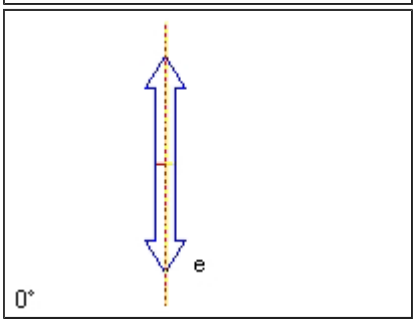
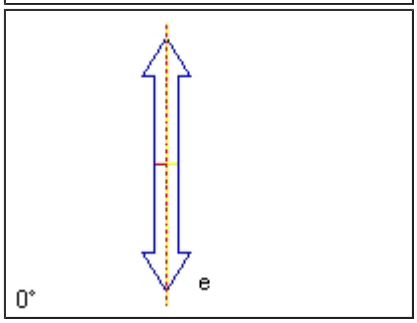
Back to top

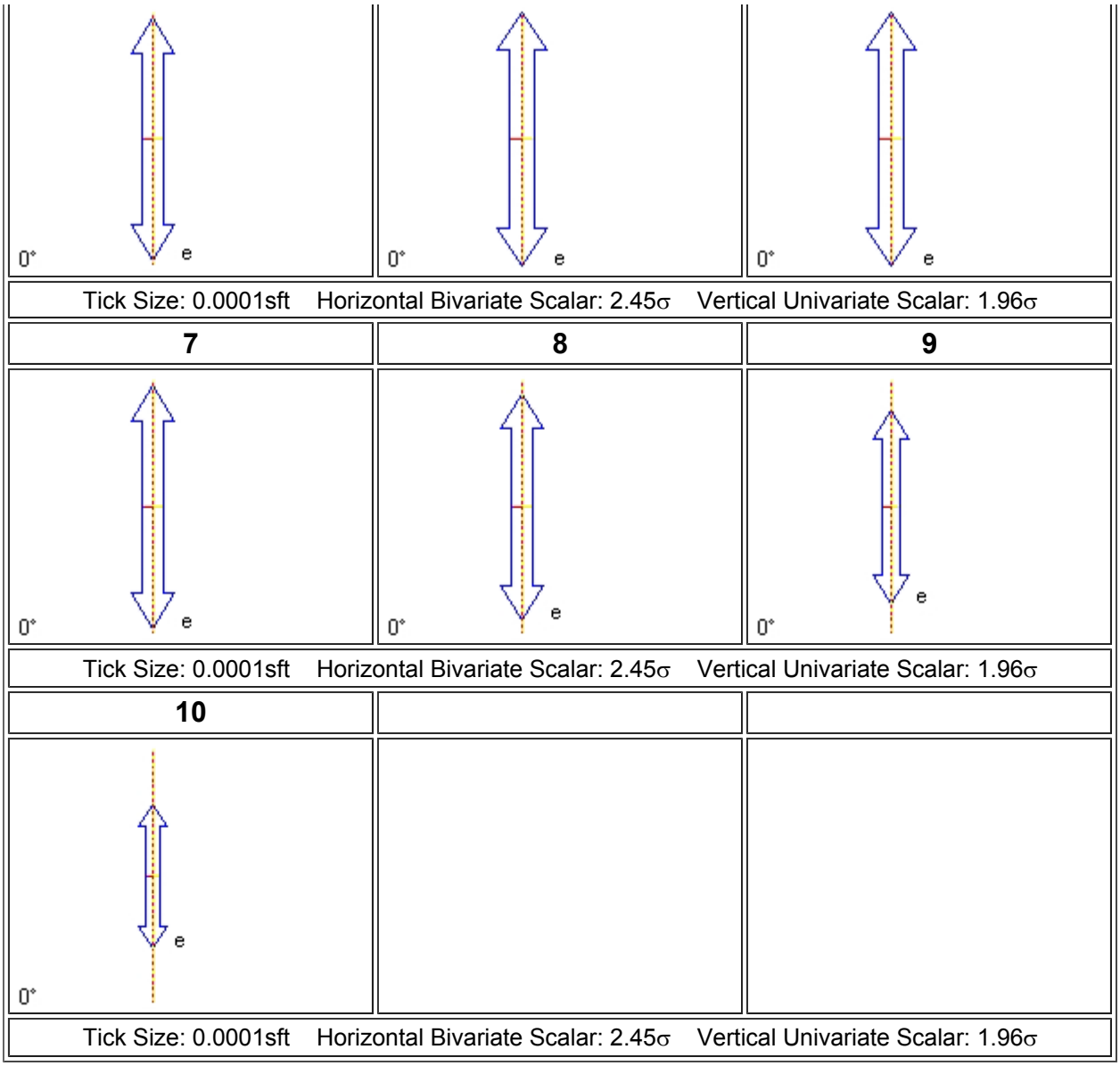
# Histograms of Standardized Residuals




Back to top

# Point Error Ellipses

| 1 | 2 | 3 |
|---|---|---|
|   |   |   |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **4** | **SGT3W3** | **6** |
| | | |




Back to top

# Covariant Terms

## Adjustment performed in WGS-84

| From Point | To Point | | Components | A-posteriori Error (1.96σ) | Horiz. Precision (Ratio) | 3D Precision (Ratio) |
|---|---|---|---|---|---|---|
| 9248 | 1 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.603sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.081sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 2 | 3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.221sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 3 | 4 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.133sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 4 | SGT3W3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.414sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| SGT3W3 | 6 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.507sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 6 | 7 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.009sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 7 | 8 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.127sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 8 | 9 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.008sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 9 | 10 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **ΔElev.** | -0.348sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |
| 10 | P598 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -1.288sft | 0.002sft | | |
| | | **Dist.** | ? | ? | | |

Back to top

# Points

### *Project : LINE 0002*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 12:58:01 PM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | California Zone 3 0403 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD-88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| 9249 | ? | ? | 3.766 | |
| 1 | ? | ? | 4.752 | |
| 2 | ? | ? | 4.541 | |
| 3 | ? | ? | 4.548 | |
| 4 | ? | ? | 4.724 | |
| SGT4W3 | ? | ? | 4.564 | |
| 6 | ? | ? | 4.634 | |
| 7 | ? | ? | 4.604 | |
| 8 | ? | ? | 4.378 | |
| 9 | ? | ? | 5.091 | |
| COLL0026 | ? | ? | 9.345 | |

Back to top

# Network Adjustment Report

***Project : Bench Test***

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 12:50:13 PM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | California Zone 3 0403 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD-88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

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## Adjustment Style Settings - 95% Confidence Limits

### Residual Tolerances

**To End Iterations** : 0.000033sft
**Final Convergence Cutoff** : 0.016404sft

### Covariance Display

**Horizontal**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96

**Three-Dimensional**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96
**Elevation Errors were used in the calculations.**

### Adjustment Controls

**Compute Correlations for Geoid** : False
**Horizontal and Vertical adjustment performed**

### Set-up Errors

**Terrestrial**
**Error in Height of Instrument** : 0.00000sft
**Centering Error** : 0.00000sft

Back to top

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## Statistical Summary

**Successful Adjustment in 1 iteration(s)**

**Network Reference Factor** : 0.77
**Chi Square Test (α=95%)** : PASS
**Degrees of Freedom** : 1.00

## Terrestrial Observation Statistics

**Reference Factor** : 0.77
**Redundancy Number (r)** : 1.00

**ΔElevations:** Reference Factor: 0.77 **(r):** 1.00

## Weighting Strategies

## Terrestrial Observations

**Default Scalar Applied to All Observations**

**Scalar** : 1.00

Back to top

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# Adjusted Coordinates

## Adjustment performed in WGS-84

**Number of Points** : 11
**Number of Constrained Points** : 2
**Elevation Only** : 2

## Adjusted Grid Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Northing | N error | Easting | E error | Elevation | e error | Fix |
|---|---|---|---|---|---|---|---|
| 9249 | N/A | N/A | N/A | N/A | 3.76599sft | 0.00000sft | e |
| 1 | N/A | N/A | N/A | N/A | 4.75169sft | 0.01001sft | |
| 2 | N/A | N/A | N/A | N/A | 4.54139sft | 0.01334sft | |
| 3 | N/A | N/A | N/A | N/A | 4.54810sft | 0.01528sft | |
| 4 | N/A | N/A | N/A | N/A | 4.72380sft | 0.01634sft | |
| SGT4W3 | N/A | N/A | N/A | N/A | 4.56350sft | 0.01668sft | |
| 6 | N/A | N/A | N/A | N/A | 4.63420sft | 0.01634sft | |
| 7 | N/A | N/A | N/A | N/A | 4.60390sft | 0.01528sft | |
| 8 | N/A | N/A | N/A | N/A | 4.37761sft | 0.01334sft | |
| 9 | N/A | N/A | N/A | N/A | 5.09131sft | 0.01001sft | |
| COLL0026 | N/A | N/A | N/A | N/A | 9.34500sft | 0.00000sft | e |

## Adjusted Geodetic Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Latitude | N error | Longitude | E error | Height | h error | Fix |
|---|---|---|---|---|---|---|---|
| 9249 | N/A | N/A | N/A | N/A | N/A | N/A | e |
| 1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 2 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT4W3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 6 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 7 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9 | N/A | N/A | N/A | N/A | N/A | N/A | |
| COLL0026 | N/A | N/A | N/A | N/A | N/A | N/A | e |

## Coordinate Deltas

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight | ΔGeoid Separation |
|---|---|---|---|---|---|
| 9249 | N/A | N/A | 0.00000sft | N/A | N/A |
| 1 | N/A | N/A | 0.00170sft | N/A | N/A |
| 2 | N/A | N/A | 0.00340sft | N/A | N/A |
| 3 | N/A | N/A | 0.00511sft | N/A | N/A |
| 4 | N/A | N/A | 0.00681sft | N/A | N/A |
| SGT4W3 | N/A | N/A | 0.00851sft | N/A | N/A |
| 6 | N/A | N/A | 0.01021sft | N/A | N/A |
| 7 | N/A | N/A | 0.01191sft | N/A | N/A |
| 8 | N/A | N/A | 0.01361sft | N/A | N/A |
| 9 | N/A | N/A | 0.01532sft | N/A | N/A |
| COLL0026 | N/A | N/A | 0.00000sft | N/A | N/A |

Back to top

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# Control Coordinate Comparisons

**Values shown are control coord minus adjusted coord.**

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight |
|---|---|---|---|---|
| 9249 | N/A | N/A | N/A | N/A |
| COLL0026 | N/A | N/A | N/A | N/A |

Back to top

# Adjusted Observations

## Adjustment performed in WGS-84

## Terrestrial Observations

**Terrestrial Transformation Group**: <Terr. Default>

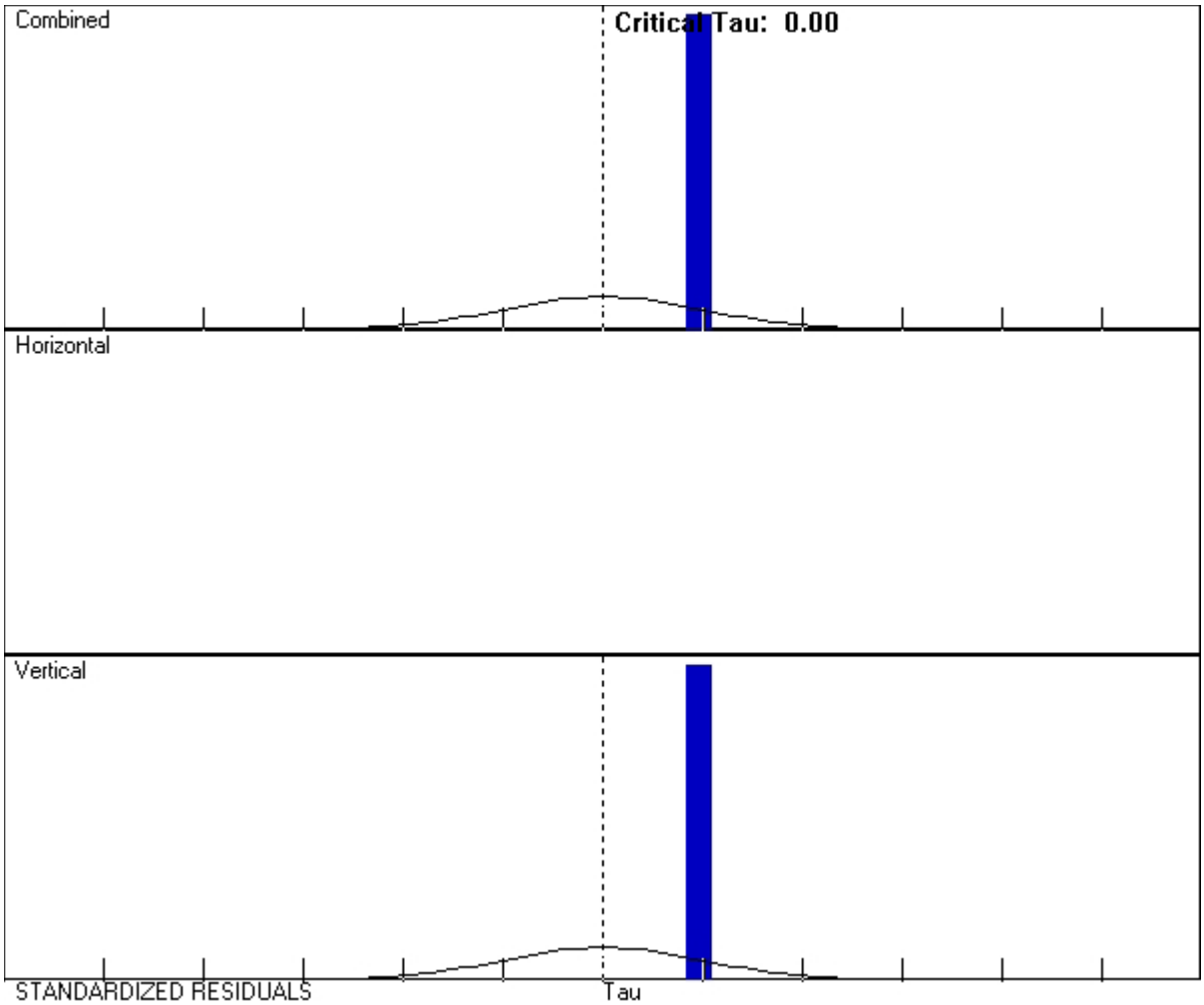
**Number of Observations** : 10
**Number of Outliers** : 10

**Observation Adjustment (Critical Tau = 0.00). Any outliers are in red.**

| Obs. ID | From | To | | Observation | A-posteriori Error (1.96σ) | Residual | Stand. Resid. |
|---|---|---|---|---|---|---|---|
| LR103 | 3 | 4 | ΔElev. | 0.17570sft | 0.01001sft | 0.00170sft | 1.00 |
| LR101 | 1 | 2 | ΔElev. | -0.21030sft | 0.01001sft | 0.00170sft | 1.00 |
| LR102 | 2 | 3 | ΔElev. | 0.00670sft | 0.01001sft | 0.00170sft | 1.00 |
| LR106 | 6 | 7 | ΔElev. | -0.03030sft | 0.01001sft | 0.00170sft | 1.00 |
| LR109 | 9 | COLL0026 | ΔElev. | 4.25369sft | 0.01001sft | 0.00170sft | 1.00 |
| LR100 | 9249 | 1 | ΔElev. | 0.98570sft | 0.01001sft | 0.00170sft | 1.00 |
| LR104 | 4 | SGT4W3 | ΔElev. | -0.16030sft | 0.01001sft | 0.00170sft | 1.00 |
| LR105 | SGT4W3 | 6 | ΔElev. | 0.07070sft | 0.01001sft | 0.00170sft | 1.00 |
| LR107 | 7 | 8 | ΔElev. | -0.22630sft | 0.01001sft | 0.00170sft | 1.00 |
| LR108 | 8 | 9 | ΔElev. | 0.71370sft | 0.01001sft | 0.00170sft | 1.00 |

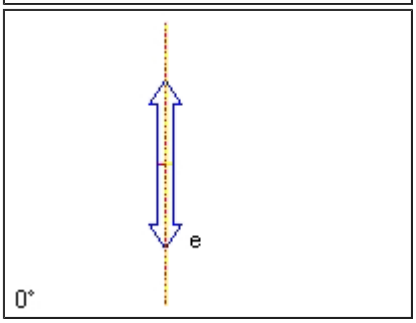
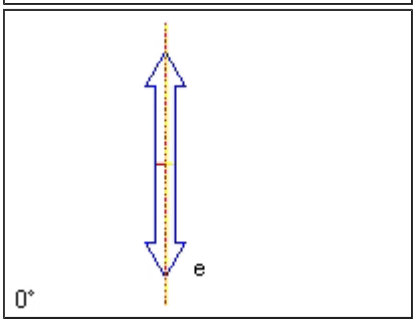
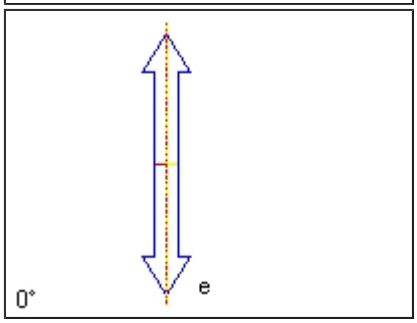
Back to top

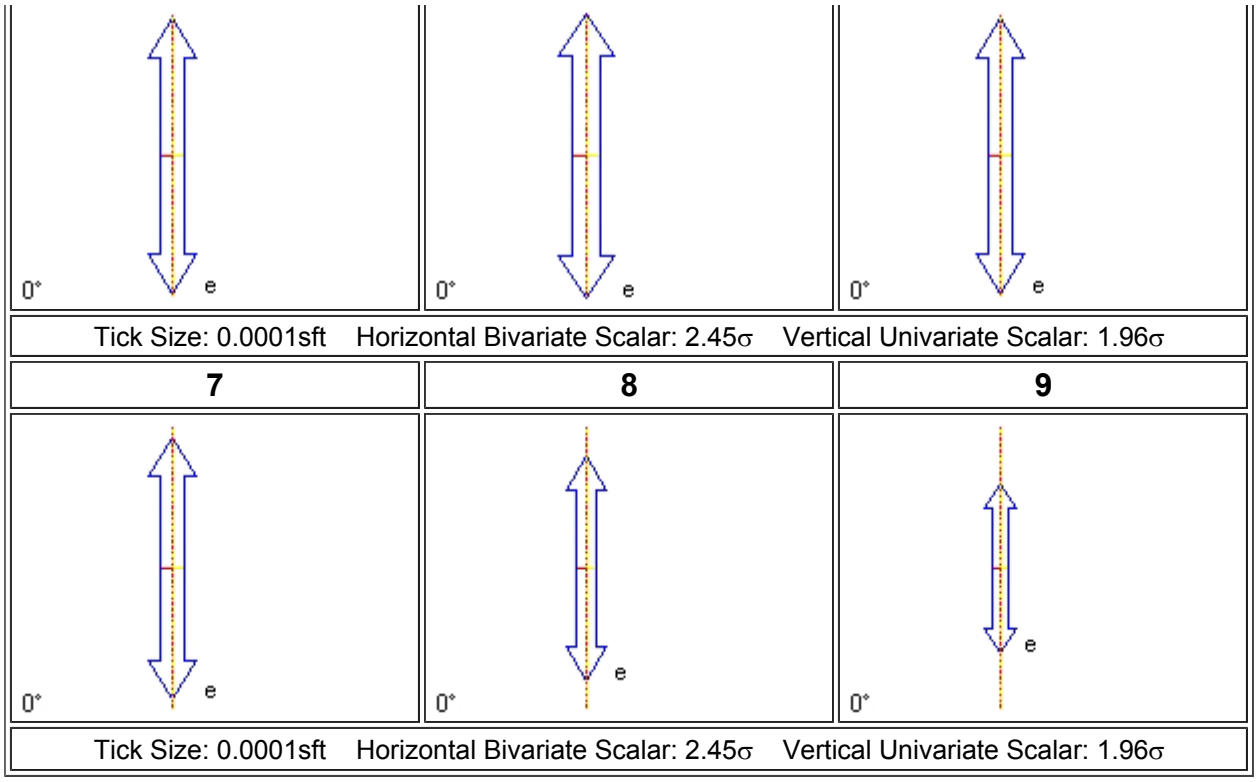
# Histograms of Standardized Residuals




Back to top

# Point Error Ellipses

| 1 | 2 | 3 |
|---|---|---|
|   |   |   |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **4** | **SGT4W3** | **6** |
| | | |




Back to top

# Covariant Terms

## Adjustment performed in WGS-84

| From Point | To Point | | Components | A-posteriori Error (1.96σ) | Horiz. Precision (Ratio) | 3D Precision (Ratio) |
|---|---|---|---|---|---|---|
| 9249 | 1 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.98570sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 1 | 2 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.21030sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 2 | 3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.00670sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 4 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.17570sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 4 | SGT4W3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.16030sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| SGT4W3 | 6 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.07070sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 6 | 7 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.03030sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 7 | 8 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.22630sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 8 | 9 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.71370sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |
| 9 | COLL0026 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 4.25369sft | 0.01001sft | | |
| | | **Dist.** | ? | ? | | |

Back to top

# Points

### *Project : LINE3*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 2:18:10 PM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| R598 | ? | ? | 4.469 | |
| A1 | ? | ? | 4.751 | |
| A2 | ? | ? | 4.716 | |
| A3 | ? | ? | 4.728 | |
| A4 | ? | ? | 4.792 | |
| A5 | ? | ? | 4.510 | |
| A6 | ? | ? | 4.664 | |
| A7 | ? | ? | 4.396 | |
| A8 | ? | ? | 4.983 | |
| A9 | ? | ? | 5.233 | |
| A10 | ? | ? | 4.392 | |
| A11 | ? | ? | 4.442 | |
| A12 | ? | ? | 4.461 | |
| A13 | ? | ? | 4.714 | |
| A14 | ? | ? | 4.225 | |
| A15 | ? | ? | 4.455 | |
| A16 | ? | ? | 4.055 | |
| A17 | ? | ? | 4.645 | |
| A18 | ? | ? | 4.634 | |
| A19 | ? | ? | 4.420 | |
| A20 | ? | ? | 4.373 | |
| A21 | ? | ? | 4.643 | |
| A22 | ? | ? | 4.493 | |
| SGT4W2 | ? | ? | 5.730 | |
| A24 | ? | ? | 5.346 | |
| A25 | ? | ? | 4.900 | |
| A26 | ? | ? | 4.942 | |
| A27 | ? | ? | 4.931 | |
| A28 | ? | ? | 4.740 | |
| A29 | ? | ? | 4.354 | |
| A30 | ? | ? | 4.439 | |
| A31 | ? | ? | 4.439 | |
| SGT4W1 | ? | ? | 4.808 | |
| A33 | ? | ? | 4.441 | |
| A34 | ? | ? | 4.447 | |
| A35 | ? | ? | 4.361 | |
| A36 | ? | ? | 4.751 | |
| A37 | ? | ? | 4.949 | |
| A38 | ? | ? | 4.820 | |
| 1 | ? | ? | 5.063 | |
| 2 | ? | ? | 5.290 | |

| | | | |
|---|---|---|---|
| 3 | ? | ? | 5.326 |
| 4 | ? | ? | 5.412 |
| 5 | ? | ? | 5.300 |
| 6 | ? | ? | 5.230 |
| 7 | ? | ? | 5.378 |
| 8 | ? | ? | 5.432 |
| 9 | ? | ? | 5.716 |
| 10 | ? | ? | 5.486 |
| 11 | ? | ? | 5.507 |
| 12 | ? | ? | 5.622 |
| 13 | ? | ? | 5.747 |
| 14 | ? | ? | 6.072 |
| 15 | ? | ? | 6.109 |
| 16 | ? | ? | 6.443 |
| 17 | ? | ? | 6.544 |
| 18 | ? | ? | 6.390 |
| 19 | ? | ? | 6.224 |
| 20 | ? | ? | 6.252 |
| 21 | ? | ? | 6.668 |
| 22 | ? | ? | 7.009 |
| 23 | ? | ? | 6.678 |
| 24 | ? | ? | 5.301 |
| 25 | ? | ? | 6.749 |
| SGT3W1 | ? | ? | 5.491 |
| 27 | ? | ? | 6.724 |
| 28 | ? | ? | 7.175 |
| 29 | ? | ? | 6.675 |
| 30 | ? | ? | 6.373 |
| 31 | ? | ? | 6.419 |
| 32 | ? | ? | 6.456 |
| 33 | ? | ? | 6.314 |
| 34 | ? | ? | 6.730 |
| SGT3W2 | ? | ? | 6.320 |
| 36 | ? | ? | 6.374 |
| 37 | ? | ? | 6.233 |
| 38 | ? | ? | 6.310 |
| 39 | ? | ? | 6.284 |
| 40 | ? | ? | 6.292 |
| 41 | ? | ? | 9.030 |
| 42 | ? | ? | 7.021 |
| 43 | ? | ? | 6.036 |
| 44 | ? | ? | 6.139 |
| 45 | ? | ? | 6.231 |
| 46 | ? | ? | 6.169 |
| 47 | ? | ? | 6.520 |
| 48 | ? | ? | 6.287 |
| 49 | ? | ? | 6.106 |
| 9248 | ? | ? | 5.456 |

**Back to top**

# Level Report *(03-4.DAT)*

## Contents



Back to top

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## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| R598 | 5.286sft | | | &nbsp4.469sft | 160.270sft | BM 1000 | |
| A1 | | | 5.004sft | 4.751sft | 162.370sft | BM 1000 | |
| | 4.710sft | | | | 229.690sft | BM 1000 | |
| A2 | | | 4.745sft | 4.716sft | 215.220sft | BM 1000 | |
| | 4.584sft | | | | 224.310sft | BM 1000 | |
| A3 | | | 4.572sft | 4.728sft | 225.330sft | BM 1000 | |
| | 4.918sft | | | | 223.590sft | BM 1000 | |
| A4 | | | 4.854sft | 4.792sft | 220.410sft | BM 1000 | |
| | 4.539sft | | | | 230.050sft | BM 1000 | |
| A5 | | | 4.822sft | 4.509sft | 227.070sft | BM 1000 | |
| | 5.134sft | | | | 227.460sft | BM 1000 | |
| A6 | | | 4.980sft | 4.663sft | 222.800sft | BM 1000 | |
| | 4.636sft | | | | 229.690sft | BM 1000 | |
| A7 | | | 4.904sft | 4.395sft | 229.200sft | BM 1000 | |
| | 5.311sft | | | | 224.280sft | BM 1000 | |
| A8 | | | 4.724sft | 4.982sft | 225.920sft | BM 1000 | |
| | 4.788sft | | | | 203.410sft | BM 1000 | |
| A9 | | | 4.538sft | 5.232sft | 205.770sft | BM 1000 | |
| | 3.999sft | | | | 223.560sft | BM 1000 | |
| A10 | | | 4.840sft | 4.391sft | 229.130sft | BM 1000 | |
| | 4.768sft | | | | 225.750sft | BM 1000 | |
| A11 | | | 4.718sft | 4.441sft | 222.340sft | BM 1000 | |
| | 4.889sft | | | | 229.130sft | BM 1000 | |
| A12 | | | 4.870sft | 4.460sft | 230.250sft | BM 1000 | |
| | 5.055sft | | | | 223.790sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A13 | | | 4.802sft | 4.713sft | 229.170sft | BM 1000 | |
| | 4.622sft | | | | 229.460sft | BM 1000 | |
| A14 | | | 5.111sft | 4.224sft | 228.580sft | BM 1000 | |
| | 5.174sft | | | | 223.790sft | BM 1000 | |
| A15 | | | 4.945sft | 4.453sft | 223.260sft | BM 1000 | |
| | 4.395sft | | | | 221.690sft | BM 1000 | |
| A16 | | | 4.795sft | 4.053sft | 223.260sft | BM 1000 | |
| | 5.366sft | | | | 216.310sft | BM 1000 | |
| A17 | | | 4.776sft | 4.643sft | 219.750sft | BM 1000 | |
| | 5.140sft | | | | 185.500sft | BM 1000 | |
| A18 | | | 5.151sft | 4.632sft | 237.400sft | BM 1000 | |
| | 4.185sft | | | | 239.300sft | BM 1000 | |
| A19 | | | 4.399sft | 4.418sft | 234.710sft | BM 1000 | |
| | 4.701sft | | | | 224.340sft | BM 1000 | |
| A20 | | | 4.748sft | 4.371sft | 228.540sft | BM 1000 | |
| | 4.748sft | | | | 225.850sft | BM 1000 | |
| A21 | | | 4.478sft | 4.641sft | 225.430sft | BM 1000 | |
| | 4.634sft | | | | 226.120sft | BM 1000 | |
| A22 | | | 4.784sft | 4.491sft | 224.080sft | BM 1000 | |
| | 5.051sft | | | | 205.770sft | BM 1000 | |
| SGT4W2 | | | 3.814sft | 5.728sft | 202.820sft | BM 1000 | |
| | 4.038sft | | | | 227.590sft | BM 1000 | |
| A24 | | | 4.422sft | 5.344sft | 223.390sft | BM 1000 | |
| | 4.362sft | | | | 221.750sft | BM 1000 | |
| A25 | | | 4.809sft | 4.897sft | 220.340sft | BM 1000 | |
| | 4.671sft | | | | 210.500sft | BM 1000 | |
| A26 | | | 4.629sft | 4.939sft | 206.890sft | BM 1000 | |
| | 4.366sft | | | | 203.480sft | BM 1000 | |
| A27 | | | 4.377sft | 4.928sft | 211.060sft | BM 1000 | |
| | 4.911sft | | | | 231.990sft | BM 1000 | |
| A28 | | | 5.102sft | 4.737sft | 231.860sft | BM 1000 | |
| | 4.898sft | | | | 224.930sft | BM 1000 | |
| A29 | | | 5.284sft | 4.351sft | 224.240sft | BM 1000 | |
| | 5.100sft | | | | 223.390sft | BM 1000 | |
| A30 | | | 5.015sft | 4.436sft | 227.720sft | BM 1000 | |
| | 5.078sft | | | | 227.990sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A31 | | | 5.078sft | 4.436sft | 225.520sft | BM 1000 | |
| | 4.567sft | | | | 106.430sft | BM 1000 | |
| SGT4W1 | | | 4.198sft | 4.805sft | 96.190sft | BM 1000 | |
| | 4.242sft | | | | 96.060sft | BM 1000 | |
| A33 | | | 4.609sft | 4.438sft | 106.270sft | BM 1000 | |
| | 5.087sft | | | | 226.610sft | BM 1000 | |
| A34 | | | 5.081sft | 4.444sft | 228.080sft | BM 1000 | |
| | 4.998sft | | | | 226.870sft | BM 1000 | |
| A35 | | | 5.085sft | 4.357sft | 224.240sft | BM 1000 | |
| | 5.180sft | | | | 224.740sft | BM 1000 | |
| A36 | | | 4.790sft | 4.747sft | 224.900sft | BM 1000 | |
| | 5.176sft | | | | 232.870sft | BM 1000 | |
| A37 | | | 4.978sft | 4.945sft | 228.770sft | BM 1000 | |
| | 4.484sft | | | | 227.950sft | BM 1000 | |
| A38 | | | 4.613sft | 4.816sft | 219.490sft | BM 1000 | |
| | 4.931sft | | | | 230.120sft | BM 1000 | |
| 1 | | | 4.688sft | 5.059sft | 215.090sft | BM 1000 | |
| | 4.499sft | | | | 223.230sft | BM 1000 | |
| 2 | | | 4.272sft | 5.286sft | 226.970sft | BM 1000 | |
| | 4.607sft | | | | 229.000sft | BM 1000 | |
| 3 | | | 4.571sft | 5.322sft | 227.200sft | BM 1000 | |
| | 4.874sft | | | | 228.670sft | BM 1000 | |
| 4 | | | 4.788sft | 5.408sft | 225.160sft | BM 1000 | |
| | 4.632sft | | | | 222.210sft | BM 1000 | |
| 5 | | | 4.744sft | 5.296sft | 223.360sft | BM 1000 | |
| | 4.737sft | | | | 236.220sft | BM 1000 | |
| 6 | | | 4.807sft | 5.226sft | 234.650sft | BM 1000 | |
| | 4.840sft | | | | 232.480sft | BM 1000 | |
| 7 | | | 4.693sft | 5.373sft | 233.140sft | BM 1000 | |
| | 5.095sft | | | | 225.920sft | BM 1000 | |
| 8 | | | 5.041sft | 5.427sft | 233.430sft | BM 1000 | |
| | 5.424sft | | | | 224.150sft | BM 1000 | |
| 9 | | | 5.140sft | 5.711sft | 226.310sft | BM 1000 | |
| | 5.199sft | | | | 229.690sft | BM 1000 | |
| 10 | | | 5.429sft | 5.481sft | 230.680sft | BM 1000 | |
| | 5.124sft | | | | 224.080sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | | | 5.103sft | 5.502sft | 231.460sft | BM 1000 | |
| | 5.458sft | | | | 218.960sft | BM 1000 | |
| 12 | | | 5.343sft | 5.617sft | 212.240sft | BM 1000 | |
| | 5.348sft | | | | 224.930sft | BM 1000 | |
| 13 | | | 5.223sft | 5.742sft | 225.720sft | BM 1000 | |
| | 5.436sft | | | | 225.360sft | BM 1000 | |
| 14 | | | 5.111sft | 6.067sft | 225.820sft | BM 1000 | |
| | 5.262sft | | | | 220.140sft | BM 1000 | |
| 15 | | | 5.225sft | 6.104sft | 230.350sft | BM 1000 | |
| | 5.332sft | | | | 222.770sft | BM 1000 | |
| 16 | | | 4.999sft | 6.437sft | 226.740sft | BM 1000 | |
| | 5.442sft | | | | 220.310sft | BM 1000 | |
| 17 | | | 5.341sft | 6.538sft | 229.690sft | BM 1000 | |
| | 5.128sft | | | | 218.800sft | BM 1000 | |
| 18 | | | 5.282sft | 6.384sft | 219.290sft | BM 1000 | |
| | 5.270sft | | | | 216.040sft | BM 1000 | |
| 19 | | | 5.436sft | 6.218sft | 233.860sft | BM 1000 | |
| | 5.551sft | | | | 215.810sft | BM 1000 | |
| 20 | | | 5.523sft | 6.246sft | 231.760sft | BM 1000 | |
| | 5.377sft | | | | 220.310sft | BM 1000 | |
| 21 | | | 4.961sft | 6.662sft | 221.360sft | BM 1000 | |
| | 5.390sft | | | | 215.710sft | BM 1000 | |
| 22 | | | 5.049sft | 7.003sft | 215.450sft | BM 1000 | |
| | 4.917sft | | | | 218.500sft | BM 1000 | |
| 23 | | | 5.248sft | 6.672sft | 227.890sft | BM 1000 | |
| | 4.768sft | | | | 155.310sft | BM 1000 | |
| 24 | | | 6.145sft | 5.295sft | 158.690sft | BM 1000 | |
| | 5.466sft | | | | 87.730sft | BM 1000 | |
| 25 | | | 4.018sft | 6.743sft | 69.290sft | BM 1000 | |
| | 4.094sft | | | | 69.360sft | BM 1000 | |
| SGT3W1 | | | 5.353sft | 5.484sft | 83.400sft | BM 1000 | |
| | 6.000sft | | | | 164.340sft | BM 1000 | |
| 27 | | | 4.767sft | 6.717sft | 154.890sft | BM 1000 | |
| | 5.242sft | | | | 226.250sft | BM 1000 | |
| 28 | | | 4.791sft | 7.168sft | 225.130sft | BM 1000 | |
| | 4.895sft | | | | 220.440sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 29 | | | 5.395sft | 6.668sft | 229.130sft | BM 1000 | |
| | 5.053sft | | | | 217.420sft | BM 1000 | |
| 30 | | | 5.355sft | 6.366sft | 225.160sft | BM 1000 | |
| | 5.435sft | | | | 221.260sft | BM 1000 | |
| 31 | | | 5.389sft | 6.412sft | 225.130sft | BM 1000 | |
| | 5.410sft | | | | 221.590sft | BM 1000 | |
| 32 | | | 5.373sft | 6.449sft | 226.280sft | BM 1000 | |
| | 5.376sft | | | | 117.750sft | BM 1000 | |
| 33 | | | 5.518sft | 6.307sft | 114.240sft | BM 1000 | |
| | 5.183sft | | | | 130.280sft | BM 1000 | |
| 34 | | | 4.767sft | 6.723sft | 83.630sft | BM 1000 | |
| | 4.869sft | | | | 83.170sft | BM 1000 | |
| SGT3W2 | | | 5.279sft | 6.313sft | 87.070sft | BM 1000 | |
| | 5.203sft | | | | 234.190sft | BM 1000 | |
| 36 | | | 5.150sft | 6.366sft | 232.550sft | BM 1000 | |
| | 5.091sft | | | | 214.240sft | BM 1000 | |
| 37 | | | 5.232sft | 6.225sft | 221.360sft | BM 1000 | |
| | 5.230sft | | | | 217.750sft | BM 1000 | |
| 38 | | | 5.153sft | 6.302sft | 234.220sft | BM 1000 | |
| | 5.424sft | | | | 230.150sft | BM 1000 | |
| 39 | | | 5.450sft | 6.276sft | 241.170sft | BM 1000 | |
| | 5.361sft | | | | 219.260sft | BM 1000 | |
| 40 | | | 5.353sft | 6.284sft | 226.570sft | BM 1000 | |
| | 5.456sft | | | | 224.150sft | BM 1000 | |
| 41 | | | 2.718sft | 9.022sft | 221.650sft | BM 1000 | |
| | 5.238sft | | | | 217.320sft | BM 1000 | |
| 42 | | | 7.247sft | 7.013sft | 230.910sft | BM 1000 | |
| | 4.222sft | | | | 216.040sft | BM 1000 | |
| 43 | | | 5.207sft | 6.028sft | 222.970sft | BM 1000 | |
| | 5.202sft | | | | 223.260sft | BM 1000 | |
| 44 | | | 5.099sft | 6.131sft | 233.630sft | BM 1000 | |
| | 5.222sft | | | | 224.670sft | BM 1000 | |
| 45 | | | 5.130sft | 6.223sft | 226.840sft | BM 1000 | |
| | 5.147sft | | | | 226.670sft | BM 1000 | |
| 46 | | | 5.210sft | 6.160sft | 230.120sft | BM 1000 | |
| | 5.146sft | | | | 218.470sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 47 | | | 4.795sft | 6.511sft | 231.500sft | BM 1000 | |
| | 4.748sft | | | | 229.400sft | BM 1000 | |
| 48 | | | 4.981sft | 6.278sft | 222.970sft | BM 1000 | |
| | 4.875sft | | | | 220.470sft | BM 1000 | |
| 49 | | | 5.056sft | 6.097sft | 227.950sft | BM 1000 | |
| | 5.340sft | | | | 236.910sft | BM 1000 | |
| 9248 | | | 5.990sft | 5.447sft | 282.049sft | BM 1000 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | R598 | A1 | | 0.282sft |
| LR2 | A1 | A2 | | -0.035sft |
| LR3 | A2 | A3 | | 0.012sft |
| LR4 | A3 | A4 | | 0.064sft |
| LR5 | A4 | A5 | | -0.283sft |
| LR6 | A5 | A6 | | 0.154sft |
| LR7 | A6 | A7 | | -0.268sft |
| LR8 | A7 | A8 | | 0.587sft |
| LR9 | A8 | A9 | | 0.250sft |
| LR10 | A9 | A10 | | -0.841sft |
| LR11 | A10 | A11 | | 0.050sft |
| LR12 | A11 | A12 | | 0.019sft |
| LR13 | A12 | A13 | | 0.253sft |
| LR14 | A13 | A14 | | -0.489sft |
| LR15 | A14 | A15 | | 0.229sft |
| LR16 | A15 | A16 | | -0.400sft |
| LR17 | A16 | A17 | | 0.590sft |
| LR18 | A17 | A18 | | -0.011sft |
| LR19 | A18 | A19 | | -0.214sft |
| LR20 | A19 | A20 | | -0.047sft |
| LR21 | A20 | A21 | | 0.270sft |
| LR22 | A21 | A22 | | -0.150sft |
| LR23 | A22 | SGT4W2 | | 1.237sft |
| LR24 | SGT4W2 | A24 | | -0.384sft |
| LR25 | A24 | A25 | | -0.447sft |
| | | | | |

| | | | | |
|---|---|---|---|---|
| LR26 | A25 | A26 | | 0.042sft |
| LR27 | A26 | A27 | | -0.011sft |
| LR28 | A27 | A28 | | -0.191sft |
| LR29 | A28 | A29 | | -0.386sft |
| LR30 | A29 | A30 | | 0.085sft |
| LR31 | A30 | A31 | | 0.000sft |
| LR32 | A31 | SGT4W1 | | 0.369sft |
| LR33 | SGT4W1 | A33 | | -0.367sft |
| LR34 | A33 | A34 | | 0.006sft |
| LR35 | A34 | A35 | | -0.087sft |
| LR36 | A35 | A36 | | 0.390sft |
| LR37 | A36 | A37 | | 0.198sft |
| LR38 | A37 | A38 | | -0.129sft |
| LR39 | A38 | 1 | | 0.243sft |
| LR40 | 1 | 2 | | 0.227sft |
| LR41 | 2 | 3 | | 0.036sft |
| LR42 | 3 | 4 | | 0.086sft |
| LR43 | 4 | 5 | | -0.112sft |
| LR44 | 5 | 6 | | -0.070sft |
| LR45 | 6 | 7 | | 0.147sft |
| LR46 | 7 | 8 | | 0.054sft |
| LR47 | 8 | 9 | | 0.284sft |
| LR48 | 9 | 10 | | -0.230sft |
| LR49 | 10 | 11 | | 0.021sft |
| LR50 | 11 | 12 | | 0.115sft |
| LR51 | 12 | 13 | | 0.125sft |
| LR52 | 13 | 14 | | 0.325sft |
| LR53 | 14 | 15 | | 0.037sft |
| LR54 | 15 | 16 | | 0.333sft |
| LR55 | 16 | 17 | | 0.101sft |
| LR56 | 17 | 18 | | -0.154sft |
| LR57 | 18 | 19 | | -0.166sft |
| LR58 | 19 | 20 | | 0.028sft |
| LR59 | 20 | 21 | | 0.416sft |
| LR60 | 21 | 22 | | 0.341sft |
| LR61 | 22 | 23 | | -0.331sft |
| LR62 | 23 | 24 | | -1.377sft |
| LR63 | 24 | 25 | | 1.448sft |
| | | | | |

| | | | | |
|---|---|---|---|---|
| LR64 | 25 | SGT3W1 | | -1.259sft |
| LR65 | SGT3W1 | 27 | | 1.233sft |
| LR66 | 27 | 28 | | 0.451sft |
| LR67 | 28 | 29 | | -0.500sft |
| LR68 | 29 | 30 | | -0.302sft |
| LR69 | 30 | 31 | | 0.046sft |
| LR70 | 31 | 32 | | 0.037sft |
| LR71 | 32 | 33 | | -0.142sft |
| LR72 | 33 | 34 | | 0.416sft |
| LR73 | 34 | SGT3W2 | | -0.410sft |
| LR74 | SGT3W2 | 36 | | 0.053sft |
| LR75 | 36 | 37 | | -0.141sft |
| LR76 | 37 | 38 | | 0.077sft |
| LR77 | 38 | 39 | | -0.026sft |
| LR78 | 39 | 40 | | 0.008sft |
| LR79 | 40 | 41 | | 2.738sft |
| LR80 | 41 | 42 | | -2.009sft |
| LR81 | 42 | 43 | | -0.985sft |
| LR82 | 43 | 44 | | 0.103sft |
| LR83 | 44 | 45 | | 0.092sft |
| LR84 | 45 | 46 | | -0.063sft |
| LR85 | 46 | 47 | | 0.351sft |
| LR86 | 47 | 48 | | -0.233sft |
| LR87 | 48 | 49 | | -0.181sft |
| LR88 | 49 | 9248 | | -0.650sft |

**Back to top**

# Points

### *Project : LINE5*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 11:24:08 AM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD 88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| 9248 | ? | ? | 5.456 | |
| 1 | ? | ? | 6.232 | |
| 2 | ? | ? | 6.223 | |
| 3 | ? | ? | 6.632 | |
| 4 | ? | ? | 6.542 | |
| 5 | ? | ? | 6.488 | |
| 6 | ? | ? | 6.686 | |
| 7 | ? | ? | 6.811 | |
| 8 | ? | ? | 6.577 | |
| 9 | ? | ? | 6.307 | |
| 10 | ? | ? | 6.486 | |
| 11 | ? | ? | 6.647 | |
| 12 | ? | ? | 6.288 | |
| 13 | ? | ? | 7.068 | |
| COLL0024 | ? | ? | 9.247 | |
| 15 | ? | ? | 6.372 | |
| 16 | ? | ? | 6.965 | |
| 17 | ? | ? | 7.118 | |
| 18 | ? | ? | 7.077 | |
| 19 | ? | ? | 7.763 | |
| 20 | ? | ? | 7.501 | |
| 21 | ? | ? | 7.345 | |
| 22 | ? | ? | 6.670 | |
| 23 | ? | ? | 6.534 | |
| 24 | ? | ? | 6.779 | |
| 25 | ? | ? | 6.636 | |
| 26 | ? | ? | 6.717 | |
| 27 | ? | ? | 6.881 | |
| 28 | ? | ? | 6.807 | |
| 29 | ? | ? | 6.578 | |
| 30 | ? | ? | 6.976 | |
| 31 | ? | ? | 7.522 | |
| SGT3W4 | ? | ? | 6.863 | |
| 33 | ? | ? | 7.610 | |
| 34 | ? | ? | 7.649 | |
| 35 | ? | ? | 7.663 | |
| 36 | ? | ? | 7.839 | |
| 37 | ? | ? | 7.766 | |
| 38 | ? | ? | 7.905 | |

| | | | |
|---|---|---|---|
| 39 | ? | ? | 10.536 |
| 40 | ? | ? | 7.846 |
| 41 | ? | ? | 6.940 |
| 42 | ? | ? | 7.697 |
| 43 | ? | ? | 7.479 |
| 44 | ? | ? | 7.239 |
| 45 | ? | ? | 6.965 |
| 46 | ? | ? | 6.956 |
| 47 | ? | ? | 7.564 |
| 9252 | ? | ? | 6.728 |
| 49 | ? | ? | 7.141 |
| 50 | ? | ? | 7.319 |
| 51 | ? | ? | 7.741 |
| 52 | ? | ? | 7.567 |
| SGT3W5 | ? | ? | 7.577 |
| 54 | ? | ? | 7.664 |
| 55 | ? | ? | 7.935 |
| 56 | ? | ? | 7.935 |
| 57 | ? | ? | 8.014 |
| 58 | ? | ? | 7.355 |
| 59 | ? | ? | 7.657 |
| 60 | ? | ? | 7.825 |
| 61 | ? | ? | 7.894 |
| 62 | ? | ? | 7.674 |
| 63 | ? | ? | 7.648 |
| 64 | ? | ? | 7.850 |
| 65 | ? | ? | 7.716 |
| C-987 | ? | ? | 7.985 |
| 67 | ? | ? | 8.724 |
| 68 | ? | ? | 8.610 |
| 69 | ? | ? | 8.870 |
| 70 | ? | ? | 9.048 |
| 71 | ? | ? | 8.635 |
| 72 | ? | ? | 8.822 |
| 73 | ? | ? | 8.364 |
| 74 | ? | ? | 8.441 |
| 75 | ? | ? | 8.528 |
| 76 | ? | ? | 8.776 |
| 77 | ? | ? | 8.390 |
| 78 | ? | ? | 8.787 |
| 79 | ? | ? | 8.905 |
| 80 | ? | ? | 9.114 |
| SGT3W7 | ? | ? | 8.820 |
| 82 | ? | ? | 9.205 |
| 83 | ? | ? | 8.445 |
| 84 | ? | ? | 8.672 |
| 85 | ? | ? | 8.241 |
| 86 | ? | ? | 8.632 |
| 87 | ? | ? | 8.859 |
| 88 | ? | ? | 8.672 |
| 89 | ? | ? | 8.472 |
| 90 | ? | ? | 8.760 |
| 91 | ? | ? | 8.394 |
| 92 | ? | ? | 8.653 |
| 93 | ? | ? | 8.654 |
| 94 | ? | ? | 8.487 |
| 95 | ? | ? | 8.691 |
| C-987A | ? | ? | 8.003 |
| 97 | ? | ? | 8.135 |
| 98 | ? | ? | 9.012 |

| | | | |
|---|---|---|---|
| 99 | ? | ? | 8.552 |
| 100 | ? | ? | 8.782 |
| 101 | ? | ? | 7.907 |
| 102 | ? | ? | 9.186 |
| 103 | ? | ? | 7.317 |
| 104 | ? | ? | 7.814 |
| 105 | ? | ? | 8.300 |
| 106 | ? | ? | 8.395 |
| 107 | ? | ? | 7.111 |
| 108 | ? | ? | 7.311 |
| 109 | ? | ? | 7.534 |
| 110 | ? | ? | 7.366 |
| 111 | ? | ? | 7.660 |
| SGT3W6 | ? | ? | 6.773 |
| 113 | ? | ? | 7.794 |
| 114 | ? | ? | 7.934 |
| 115 | ? | ? | 7.637 |
| 116 | ? | ? | 7.972 |
| 117 | ? | ? | 7.770 |
| 118 | ? | ? | 7.528 |
| 119 | ? | ? | 7.488 |
| 120 | ? | ? | 7.389 |
| 121 | ? | ? | 7.090 |
| 122 | ? | ? | 7.461 |
| 123 | ? | ? | 7.387 |
| 124 | ? | ? | 7.038 |
| 125 | ? | ? | 6.748 |
| 126 | ? | ? | 6.835 |
| 127 | ? | ? | 6.204 |
| 128 | ? | ? | 6.056 |
| 129 | ? | ? | 6.568 |
| 130 | ? | ? | 6.903 |
| 131 | ? | ? | 6.403 |
| 132 | ? | ? | 5.990 |
| 133 | ? | ? | 6.250 |
| 134 | ? | ? | 6.029 |
| SGT4W6 | ? | ? | 5.905 |
| 136 | ? | ? | 6.172 |
| 137 | ? | ? | 6.412 |
| 138 | ? | ? | 6.181 |
| 139 | ? | ? | 6.005 |
| 140 | ? | ? | 6.382 |
| 141 | ? | ? | 6.289 |
| 142 | ? | ? | 5.978 |
| 143 | ? | ? | 6.192 |
| 144 | ? | ? | 7.773 |
| 145 | ? | ? | 6.835 |
| 146 | ? | ? | 5.454 |
| 147 | ? | ? | 6.046 |
| 148 | ? | ? | 6.165 |
| 149 | ? | ? | 6.159 |
| 150 | ? | ? | 6.014 |
| 151 | ? | ? | 5.833 |
| 152 | ? | ? | 6.064 |
| 153 | ? | ? | 5.920 |
| 154 | ? | ? | 5.592 |
| 155 | ? | ? | 5.538 |
| 156 | ? | ? | 5.515 |
| 157 | ? | ? | 5.259 |
| 158 | ? | ? | 4.999 |

| | | | |
|---|---|---|---|
| 159 | ? | ? | 4.999 |
| 160 | ? | ? | 4.853 |
| 161 | ? | ? | 4.769 |
| 162 | ? | ? | 4.910 |
| 163 | ? | ? | 4.971 |
| 164 | ? | ? | 5.146 |
| 165 | ? | ? | 4.790 |
| 166 | ? | ? | 4.887 |
| 167 | ? | ? | 4.831 |
| 168 | ? | ? | 5.091 |
| 169 | ? | ? | 4.546 |
| 170 | ? | ? | 4.939 |
| 171 | ? | ? | 4.540 |
| 172 | ? | ? | 4.666 |
| 173 | ? | ? | 4.621 |
| 174 | ? | ? | 4.625 |
| 175 | ? | ? | 4.681 |
| 176 | ? | ? | 4.556 |
| 177 | ? | ? | 4.625 |
| 178 | ? | ? | 4.621 |
| 179 | ? | ? | 4.562 |
| 180 | ? | ? | 4.702 |
| 181 | ? | ? | 4.590 |
| 182 | ? | ? | 4.733 |
| 183 | ? | ? | 4.509 |
| 184 | ? | ? | 4.561 |
| 185 | ? | ? | 4.879 |
| 186 | ? | ? | 4.605 |
| 187 | ? | ? | 4.828 |
| 188 | ? | ? | 5.249 |
| 189 | ? | ? | 5.316 |
| 190 | ? | ? | 5.448 |
| 191 | ? | ? | 5.335 |
| 192 | ? | ? | 5.545 |
| 193 | ? | ? | 5.911 |
| 194 | ? | ? | 5.541 |
| 195 | ? | ? | 5.636 |
| 196 | ? | ? | 5.673 |
| SGT4W5 | ? | ? | 4.530 |
| 198 | ? | ? | 5.579 |
| 199 | ? | ? | 5.708 |
| 200 | ? | ? | 5.884 |
| 201 | ? | ? | 5.762 |
| 202 | ? | ? | 5.568 |
| 203 | ? | ? | 5.001 |
| 204 | ? | ? | 5.592 |
| 205 | ? | ? | 5.356 |
| 206 | ? | ? | 5.229 |
| 207 | ? | ? | 4.506 |
| 208 | ? | ? | 4.809 |
| 209 | ? | ? | 4.916 |
| 210 | ? | ? | 4.355 |
| 211 | ? | ? | 4.555 |
| 212 | ? | ? | 4.661 |
| 213 | ? | ? | 4.644 |
| 214 | ? | ? | 4.670 |
| 215 | ? | ? | 4.726 |
| 216 | ? | ? | 4.657 |
| 217 | ? | ? | 4.625 |
| 218 | ? | ? | 5.036 |

| | | | |
|---|---|---|---|
| 219 | ? | ? | 4.750 |
| 220 | ? | ? | 4.707 |
| 221 | ? | ? | 4.572 |
| 222 | ? | ? | 7.048 |
| 223 | ? | ? | 6.282 |
| 224 | ? | ? | 5.101 |
| 225 | ? | ? | 5.121 |
| 226 | ? | ? | 5.226 |
| 227 | ? | ? | 4.992 |
| 228 | ? | ? | 4.991 |
| 229 | ? | ? | 5.227 |
| 230 | ? | ? | 5.239 |
| 231 | ? | ? | 5.227 |
| 232 | ? | ? | 5.203 |
| 233 | ? | ? | 5.024 |
| 234 | ? | ? | 4.809 |
| 235 | ? | ? | 5.113 |
| 9249 | ? | ? | 3.766 |

Back to top

# Level Report *(File 0005.DAT)*

## Contents



Back to top

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## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| 9248 | 5.719sft | | | &nbsp5.456sft | 222.600sft | BM 1000 | |
| 1 | | | 4.943sft | 6.232sft | 218.770sft | BM 1000 | |
| | 4.957sft | | | | 224.240sft | BM 1000 | |
| 2 | | | 4.967sft | 6.222sft | 231.430sft | BM 1000 | |
| | 4.940sft | | | | 225.160sft | BM 1000 | |
| 3 | | | 4.531sft | 6.631sft | 223.850sft | BM 1000 | |
| | 4.751sft | | | | 230.450sft | BM 1000 | |
| 4 | | | 4.841sft | 6.541sft | 228.280sft | BM 1000 | |
| | 5.114sft | | | | 222.440sft | BM 1000 | |
| 5 | | | 5.169sft | 6.486sft | 226.440sft | BM 1000 | |
| | 5.255sft | | | | 224.410sft | BM 1000 | |
| 6 | | | 5.057sft | 6.684sft | 227.560sft | BM 1000 | |
| | 4.791sft | | | | 229.230sft | BM 1000 | |
| 7 | | | 4.667sft | 6.808sft | 228.250sft | BM 1000 | |
| | 4.585sft | | | | 224.840sft | BM 1000 | |
| 8 | | | 4.819sft | 6.574sft | 225.980sft | BM 1000 | |
| | 4.144sft | | | | 228.610sft | BM 1000 | |
| 9 | | | 4.414sft | 6.304sft | 221.980sft | BM 1000 | |
| | 5.381sft | | | | 219.030sft | BM 1000 | |
| 10 | | | 5.203sft | 6.482sft | 223.330sft | BM 1000 | |
| | 5.246sft | | | | 217.550sft | BM 1000 | |
| 11 | | | 5.085sft | 6.643sft | 227.000sft | BM 1000 | |
| | 5.220sft | | | | 214.830sft | BM 1000 | |
| 12 | | | 5.579sft | 6.284sft | 225.290sft | BM 1000 | |
| | 5.226sft | | | | 220.600sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| - 13 | | | 4.447sft | - 7.063sft | 226.710sft | BM 1000 | |
| | 6.028sft | | | - | 219.260sft | BM 1000 | |
| - COLL0024 | | | 3.849sft | - 9.242sft | 258.199sft | BM 1000 | |
| | 3.524sft | | | - | 222.310sft | BM 1000 | |
| - 15 | | | 6.400sft | - 6.366sft | 224.800sft | BM 1000 | |
| | 5.166sft | | | - | 225.620sft | BM 1000 | |
| - 16 | | | 4.573sft | - 6.959sft | 222.340sft | BM 1000 | |
| | 5.426sft | | | - | 226.050sft | BM 1000 | |
| - 17 | | | 5.273sft | - 7.112sft | 220.960sft | BM 1000 | |
| | 5.189sft | | | - | 229.530sft | BM 1000 | |
| - 18 | | | 5.231sft | - 7.070sft | 229.330sft | BM 1000 | |
| | 5.373sft | | | - | 225.430sft | BM 1000 | |
| - 19 | | | 4.687sft | - 7.756sft | 228.710sft | BM 1000 | |
| | 5.170sft | | | - | 223.790sft | BM 1000 | |
| - 20 | | | 5.432sft | - 7.494sft | 232.970sft | BM 1000 | |
| | 5.059sft | | | - | 218.440sft | BM 1000 | |
| - 21 | | | 5.216sft | - 7.337sft | 224.770sft | BM 1000 | |
| | 5.096sft | | | - | 217.220sft | BM 1000 | |
| - 22 | | | 5.771sft | - 6.662sft | 227.070sft | BM 1000 | |
| | 4.983sft | | | - | 224.510sft | BM 1000 | |
| - 23 | | | 5.119sft | - 6.526sft | 227.590sft | BM 1000 | |
| | 5.240sft | | | - | 221.330sft | BM 1000 | |
| - 24 | | | 4.996sft | - 6.770sft | 223.720sft | BM 1000 | |
| | 4.893sft | | | - | 226.480sft | BM 1000 | |
| - 25 | | | 5.036sft | - 6.627sft | 230.280sft | BM 1000 | |
| | 5.298sft | | | - | 228.610sft | BM 1000 | |
| - 26 | | | 5.218sft | - 6.707sft | 230.080sft | BM 1000 | |
| | 5.273sft | | | - | 223.820sft | BM 1000 | |
| - 27 | | | 5.109sft | - 6.871sft | 224.470sft | BM 1000 | |
| | 5.065sft | | | - | 219.850sft | BM 1000 | |
| - 28 | | | 5.139sft | - 6.797sft | 222.770sft | BM 1000 | |
| | 4.857sft | | | - | 231.460sft | BM 1000 | |
| - 29 | | | 5.087sft | - 6.567sft | 218.210sft | BM 1000 | |
| | 5.384sft | | | - | 216.080sft | BM 1000 | |
| - 30 | | | 4.986sft | - 6.965sft | 223.460sft | BM 1000 | |
| | 5.426sft | | | - | 228.810sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| - 31 | | | 4.880sft | - 7.511sft | 227.660sft | BM 1000 | |
| | 5.128sft | | | - | 105.180sft | BM 1000 | |
| - SGT3W4 | | | 5.788sft | - 6.851sft | 92.060sft | BM 1000 | |
| | 5.947sft | | | - | 83.140sft | BM 1000 | |
| - 33 | | | 5.200sft | - 7.598sft | 88.120sft | BM 1000 | |
| | 5.155sft | | | - | 221.460sft | BM 1000 | |
| - 34 | | | 5.117sft | - 7.636sft | 225.330sft | BM 1000 | |
| | 5.004sft | | | - | 218.410sft | BM 1000 | |
| - 35 | | | 4.990sft | - 7.650sft | 225.620sft | BM 1000 | |
| | 5.176sft | | | - | 221.330sft | BM 1000 | |
| - 36 | | | 5.000sft | - 7.826sft | 223.690sft | BM 1000 | |
| | 4.937sft | | | - | 219.590sft | BM 1000 | |
| - 37 | | | 5.011sft | - 7.752sft | 224.340sft | BM 1000 | |
| | 5.202sft | | | - | 220.900sft | BM 1000 | |
| - 38 | | | 5.063sft | - 7.891sft | 231.760sft | BM 1000 | |
| | 6.167sft | | | - | 218.140sft | BM 1000 | |
| - 39 | | | 3.536sft | - 10.522sft | 261.909sft | BM 1000 | |
| | 2.919sft | | | - | 229.860sft | BM 1000 | |
| - 40 | | | 5.610sft | - 7.831sft | 227.100sft | BM 1000 | |
| | 4.367sft | | | - | 211.090sft | BM 1000 | |
| - 41 | | | 5.273sft | - 6.925sft | 221.650sft | BM 1000 | |
| | 5.521sft | | | - | 223.490sft | BM 1000 | |
| - 42 | | | 4.764sft | - 7.682sft | 222.900sft | BM 1000 | |
| | 5.015sft | | | - | 219.490sft | BM 1000 | |
| - 43 | | | 5.234sft | - 7.463sft | 225.230sft | BM 1000 | |
| | 4.596sft | | | - | 223.590sft | BM 1000 | |
| - 44 | | | 4.836sft | - 7.223sft | 226.080sft | BM 1000 | |
| | 5.110sft | | | - | 215.710sft | BM 1000 | |
| - 45 | | | 5.385sft | - 6.948sft | 245.310sft | BM 1000 | |
| | 4.986sft | | | - | 222.470sft | BM 1000 | |
| - 46 | | | 4.995sft | - 6.939sft | 229.560sft | BM 1000 | |
| | 5.360sft | | | - | 217.680sft | BM 1000 | |
| - 47 | | | 4.752sft | - 7.547sft | 219.450sft | BM 1000 | |
| | 5.144sft | | | - | 61.190sft | BM 1000 | |
| - 9252 | | | 5.981sft | - 6.710sft | 55.180sft | BM 1000 | |
| | 5.519sft | | | - | 233.990sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | | | 5.106sft | 7.123sft | 232.320sft | BM 1000 | |
| | 5.246sft | | | - | 216.990sft | BM 1000 | |
| 50 | | | 5.068sft | 7.301sft | 220.080sft | BM 1000 | |
| | 5.128sft | | | - | 228.080sft | BM 1000 | |
| 51 | | | 4.707sft | 7.722sft | 231.130sft | BM 1000 | |
| | 4.991sft | | | - | 220.210sft | BM 1000 | |
| 52 | | | 5.165sft | 7.548sft | 224.610sft | BM 1000 | |
| | 4.751sft | | | - | 215.880sft | BM 1000 | |
| SGT3W5 | | | 4.742sft | 7.557sft | 234.020sft | BM 1000 | |
| | 4.798sft | | | - | 216.210sft | BM 1000 | |
| 54 | | | 4.711sft | 7.644sft | 215.190sft | BM 1000 | |
| | 4.964sft | | | - | 211.970sft | BM 1000 | |
| 55 | | | 4.693sft | 7.915sft | 214.730sft | BM 1000 | |
| | 4.918sft | | | - | 214.210sft | BM 1000 | |
| 56 | | | 4.919sft | 7.914sft | 210.790sft | BM 1000 | |
| | 4.885sft | | | - | 219.060sft | BM 1000 | |
| 57 | | | 4.806sft | 7.993sft | 224.080sft | BM 1000 | |
| | 4.893sft | | | - | 218.900sft | BM 1000 | |
| 58 | | | 5.552sft | 7.334sft | 218.600sft | BM 1000 | |
| | 5.335sft | | | - | 208.330sft | BM 1000 | |
| 59 | | | 5.034sft | 7.635sft | 214.010sft | BM 1000 | |
| | 5.545sft | | | - | 220.960sft | BM 1000 | |
| 60 | | | 5.377sft | 7.803sft | 220.670sft | BM 1000 | |
| | 5.209sft | | | - | 213.350sft | BM 1000 | |
| 61 | | | 5.140sft | 7.872sft | 216.670sft | BM 1000 | |
| | 5.227sft | | | - | 215.680sft | BM 1000 | |
| 62 | | | 5.448sft | 7.651sft | 210.600sft | BM 1000 | |
| | 5.455sft | | | - | 216.800sft | BM 1000 | |
| 63 | | | 5.481sft | 7.625sft | 223.720sft | BM 1000 | |
| | 4.772sft | | | - | 215.880sft | BM 1000 | |
| 64 | | | 4.571sft | 7.826sft | 235.860sft | BM 1000 | |
| | 4.993sft | | | - | 214.010sft | BM 1000 | |
| 65 | | | 5.127sft | 7.692sft | 214.700sft | BM 1000 | |
| | 6.297sft | | | - | 217.810sft | BM 1000 | |
| C-987 | | | 6.028sft | 7.961sft | 236.220sft | BM 1000 | |
| | 6.026sft | | | - | 171.880sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| - 67 | | | 5.288sft | - 8.699sft | 182.710sft | BM 1000 | |
| | 5.259sft | | | - | 211.840sft | BM 1000 | |
| - 68 | | | 5.373sft | - 8.585sft | 220.440sft | BM 1000 | |
| | 5.185sft | | | - | 223.000sft | BM 1000 | |
| - 69 | | | 4.925sft | - 8.845sft | 225.950sft | BM 1000 | |
| | 4.858sft | | | - | 225.790sft | BM 1000 | |
| - 70 | | | 4.681sft | - 9.022sft | 228.900sft | BM 1000 | |
| | 4.559sft | | | - | 214.700sft | BM 1000 | |
| - 71 | | | 4.972sft | - 8.609sft | 216.670sft | BM 1000 | |
| | 5.426sft | | | - | 219.130sft | BM 1000 | |
| - 72 | | | 5.240sft | - 8.795sft | 192.720sft | BM 1000 | |
| | 4.891sft | | | - | 219.160sft | BM 1000 | |
| - 73 | | | 5.349sft | - 8.337sft | 221.130sft | BM 1000 | |
| | 5.612sft | | | - | 204.630sft | BM 1000 | |
| - 74 | | | 5.535sft | - 8.414sft | 221.520sft | BM 1000 | |
| | 5.426sft | | | - | 220.700sft | BM 1000 | |
| - 75 | | | 5.340sft | - 8.500sft | 222.110sft | BM 1000 | |
| | 4.869sft | | | - | 227.200sft | BM 1000 | |
| - 76 | | | 4.621sft | - 8.748sft | 224.380sft | BM 1000 | |
| | 4.961sft | | | - | 223.650sft | BM 1000 | |
| - 77 | | | 5.347sft | - 8.362sft | 227.990sft | BM 1000 | |
| | 5.361sft | | | - | 219.520sft | BM 1000 | |
| - 78 | | | 4.965sft | - 8.758sft | 226.610sft | BM 1000 | |
| | 4.611sft | | | - | 223.230sft | BM 1000 | |
| - 79 | | | 4.493sft | - 8.876sft | 221.260sft | BM 1000 | |
| | 5.317sft | | | - | 228.810sft | BM 1000 | |
| - 80 | | | 5.108sft | - 9.085sft | 226.150sft | BM 1000 | |
| | 4.765sft | | | - | 36.090sft | BM 1000 | |
| - SGT3W7 | | | 5.060sft | - 8.790sft | 23.390sft | BM 1000 | |
| | 5.718sft | | | - | 68.210sft | BM 1000 | |
| - 82 | | | 5.333sft | - 9.175sft | 74.840sft | BM 1000 | |
| | 5.080sft | | | - | 190.120sft | BM 1000 | |
| - 83 | | | 5.841sft | - 8.414sft | 189.170sft | BM 1000 | |
| | 5.326sft | | | - | 218.370sft | BM 1000 | |
| - 84 | | | 5.099sft | - 8.641sft | 217.520sft | BM 1000 | |
| | 5.244sft | | | - | 217.650sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 85 | | | 5.675sft | - 8.210sft | 220.050sft | BM 1000 | |
| | 5.504sft | | | - | 220.900sft | BM 1000 | |
| - 86 | | | 5.114sft | - 8.600sft | 220.180sft | BM 1000 | |
| | 5.029sft | | | - | 223.290sft | BM 1000 | |
| - 87 | | | 4.802sft | - 8.827sft | 216.900sft | BM 1000 | |
| | 4.687sft | | | - | 219.190sft | BM 1000 | |
| - 88 | | | 4.874sft | - 8.640sft | 218.370sft | BM 1000 | |
| | 5.066sft | | | - | 210.990sft | BM 1000 | |
| - 89 | | | 5.267sft | - 8.439sft | 212.730sft | BM 1000 | |
| | 5.458sft | | | - | 224.210sft | BM 1000 | |
| - 90 | | | 5.170sft | - 8.727sft | 222.510sft | BM 1000 | |
| | 5.359sft | | | - | 219.360sft | BM 1000 | |
| - 91 | | | 5.726sft | - 8.360sft | 217.950sft | BM 1000 | |
| | 6.206sft | | | - | 221.920sft | BM 1000 | |
| - 92 | | | 5.947sft | - 8.619sft | 223.200sft | BM 1000 | |
| | 5.565sft | | | - | 230.380sft | BM 1000 | |
| - 93 | | | 5.564sft | - 8.620sft | 233.070sft | BM 1000 | |
| | 5.233sft | | | - | 225.460sft | BM 1000 | |
| - 94 | | | 5.401sft | - 8.452sft | 232.550sft | BM 1000 | |
| | 5.572sft | | | - | 215.350sft | BM 1000 | |
| - 95 | | | 5.368sft | - 8.656sft | 218.270sft | BM 1000 | |
| | 5.167sft | | | - | 107.610sft | BM 1000 | |
| - C-987A | | | 5.855sft | - 7.968sft | 110.500sft | BM 1000 | |
| | 5.379sft | | | - | 114.600sft | BM 1000 | |
| - 97 | | | 5.248sft | - 8.099sft | 117.190sft | BM 1000 | |
| | 5.168sft | | | - | 202.490sft | BM 1000 | |
| - 98 | | | 4.291sft | - 8.976sft | 212.040sft | BM 1000 | |
| | 6.934sft | | | - | 208.600sft | BM 1000 | |
| - 99 | | | 7.394sft | - 8.516sft | 209.050sft | BM 1000 | |
| | 5.039sft | | | - | 214.110sft | BM 1000 | |
| - 100 | | | 4.810sft | - 8.745sft | 215.490sft | BM 1000 | |
| | 5.163sft | | | - | 216.730sft | BM 1000 | |
| - 101 | | | 6.038sft | - 7.870sft | 219.160sft | BM 1000 | |
| | 5.583sft | | | - | 215.850sft | BM 1000 | |
| - 102 | | | 4.305sft | - 9.148sft | 212.890sft | BM 1000 | |
| | 3.586sft | | | - | 211.810sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 103 | | | 5.455sft | - 7.279sft | 227.990sft | BM 1000 | |
| | 6.071sft | | | - | 213.520sft | BM 1000 | |
| - 104 | | | 5.574sft | - 7.776sft | 206.920sft | BM 1000 | |
| | 6.025sft | | | - | 223.690sft | BM 1000 | |
| - 105 | | | 5.540sft | - 8.261sft | 218.500sft | BM 1000 | |
| | 5.377sft | | | - | 225.390sft | BM 1000 | |
| - 106 | | | 5.282sft | - 8.356sft | 224.470sft | BM 1000 | |
| | 5.616sft | | | - | 190.120sft | BM 1000 | |
| - 107 | | | 6.900sft | - 7.072sft | 137.340sft | BM 1000 | |
| | 5.284sft | | | - | 194.850sft | BM 1000 | |
| - 108 | | | 5.085sft | - 7.271sft | 220.570sft | BM 1000 | |
| | 5.710sft | | | - | 215.060sft | BM 1000 | |
| - 109 | | | 5.487sft | - 7.494sft | 227.300sft | BM 1000 | |
| | 5.351sft | | | - | 220.640sft | BM 1000 | |
| - 110 | | | 5.520sft | - 7.325sft | 221.550sft | BM 1000 | |
| | 5.779sft | | | - | 221.190sft | BM 1000 | |
| - 111 | | | 5.485sft | - 7.619sft | 220.700sft | BM 1000 | |
| | 5.429sft | | | - | 87.500sft | BM 1000 | |
| SGT3W6 | | | 6.316sft | - 6.732sft | 95.440sft | BM 1000 | |
| | 6.495sft | | | - | 219.160sft | BM 1000 | |
| - 113 | | | 5.475sft | - 7.752sft | 215.320sft | BM 1000 | |
| | 5.432sft | | | - | 227.360sft | BM 1000 | |
| - 114 | | | 5.292sft | - 7.892sft | 228.410sft | BM 1000 | |
| | 5.629sft | | | - | 227.490sft | BM 1000 | |
| - 115 | | | 5.926sft | - 7.595sft | 226.570sft | BM 1000 | |
| | 5.205sft | | | - | 225.890sft | BM 1000 | |
| - 116 | | | 4.871sft | - 7.929sft | 225.070sft | BM 1000 | |
| | 5.082sft | | | - | 226.640sft | BM 1000 | |
| - 117 | | | 5.284sft | - 7.727sft | 226.120sft | BM 1000 | |
| | 5.415sft | | | - | 225.590sft | BM 1000 | |
| - 118 | | | 5.657sft | - 7.485sft | 226.740sft | BM 1000 | |
| | 5.496sft | | | - | 233.430sft | BM 1000 | |
| - 119 | | | 5.537sft | - 7.444sft | 237.470sft | BM 1000 | |
| | 5.432sft | | | - | 227.390sft | BM 1000 | |
| - 120 | | | 5.531sft | - 7.345sft | 227.430sft | BM 1000 | |
| | 4.783sft | | | - | 224.210sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 121 | | | 5.083sft | - 7.045sft | 222.930sft | BM 1000 | |
| | 5.699sft | | | - | 226.770sft | BM 1000 | |
| - 122 | | | 5.328sft | - 7.416sft | 227.030sft | BM 1000 | |
| | 5.938sft | | | - | 228.250sft | BM 1000 | |
| - 123 | | | 6.012sft | - 7.342sft | 228.580sft | BM 1000 | |
| | 4.885sft | | | - | 210.430sft | BM 1000 | |
| - 124 | | | 5.235sft | - 6.992sft | 210.170sft | BM 1000 | |
| | 5.574sft | | | - | 221.520sft | BM 1000 | |
| - 125 | | | 5.864sft | - 6.702sft | 222.410sft | BM 1000 | |
| | 5.732sft | | | - | 233.140sft | BM 1000 | |
| - 126 | | | 5.645sft | - 6.789sft | 233.140sft | BM 1000 | |
| | 5.172sft | | | - | 223.230sft | BM 1000 | |
| - 127 | | | 5.804sft | - 6.157sft | 225.520sft | BM 1000 | |
| | 5.664sft | | | - | 229.460sft | BM 1000 | |
| - 128 | | | 5.812sft | - 6.009sft | 228.120sft | BM 1000 | |
| | 6.045sft | | | - | 224.770sft | BM 1000 | |
| - 129 | | | 5.534sft | - 6.520sft | 225.460sft | BM 1000 | |
| | 5.837sft | | | - | 225.920sft | BM 1000 | |
| - 130 | | | 5.502sft | - 6.855sft | 226.050sft | BM 1000 | |
| | 5.426sft | | | - | 230.640sft | BM 1000 | |
| - 131 | | | 5.926sft | - 6.355sft | 230.310sft | BM 1000 | |
| | 5.281sft | | | - | 218.370sft | BM 1000 | |
| - 132 | | | 5.695sft | - 5.941sft | 221.620sft | BM 1000 | |
| | 5.793sft | | | - | 214.830sft | BM 1000 | |
| - 133 | | | 5.533sft | - 6.201sft | 223.330sft | BM 1000 | |
| | 5.682sft | | | - | 233.530sft | BM 1000 | |
| - 134 | | | 5.903sft | - 5.980sft | 220.640sft | BM 1000 | |
| | 5.643sft | | | - | 54.950sft | BM 1000 | |
| - SGT4W6 | | | 5.768sft | - 5.855sft | 51.440sft | BM 1000 | |
| | 5.843sft | | | - | 185.040sft | BM 1000 | |
| - 136 | | | 5.576sft | - 6.122sft | 199.470sft | BM 1000 | |
| | 5.519sft | | | - | 212.860sft | BM 1000 | |
| - 137 | | | 5.279sft | - 6.362sft | 224.110sft | BM 1000 | |
| | 5.298sft | | | - | 235.990sft | BM 1000 | |
| - 138 | | | 5.530sft | - 6.130sft | 237.370sft | BM 1000 | |
| | 5.433sft | | | - | 221.820sft | BM 1000 | |

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| - 139 | | | 5.609sft | - 5.954sft | 237.660sft | BM 1000 | |
| | 5.573sft | | | - | 223.790sft | BM 1000 | |
| - 140 | | | 5.197sft | - 6.330sft | 226.640sft | BM 1000 | |
| | 5.353sft | | | - | 217.260sft | BM 1000 | |
| - 141 | | | 5.446sft | - 6.237sft | 219.590sft | BM 1000 | |
| | 5.358sft | | | - | 207.350sft | BM 1000 | |
| - 142 | | | 5.669sft | - 5.926sft | 202.260sft | BM 1000 | |
| | 5.975sft | | | - | 227.950sft | BM 1000 | |
| - 143 | | | 5.762sft | - 6.139sft | 230.180sft | BM 1000 | |
| | 5.142sft | | | - | 203.940sft | BM 1000 | |
| - 144 | | | 3.561sft | - 7.720sft | 211.060sft | BM 1000 | |
| | 6.276sft | | | - | 178.410sft | BM 1000 | |
| - 145 | | | 7.214sft | - 6.782sft | 188.390sft | BM 1000 | |
| | 4.405sft | | | - | 227.130sft | BM 1000 | |
| - 146 | | | 5.787sft | - 5.400sft | 222.110sft | BM 1000 | |
| | 5.463sft | | | - | 226.210sft | BM 1000 | |
| - 147 | | | 4.871sft | - 5.992sft | 227.760sft | BM 1000 | |
| | 5.291sft | | | - | 227.720sft | BM 1000 | |
| - 148 | | | 5.173sft | - 6.110sft | 223.230sft | BM 1000 | |
| | 5.653sft | | | - | 85.560sft | BM 1000 | |
| - 149 | | | 5.659sft | - 6.104sft | 87.400sft | BM 1000 | |
| | 5.065sft | | | - | 228.150sft | BM 1000 | |
| - 150 | | | 5.210sft | - 5.959sft | 228.150sft | BM 1000 | |
| | 5.083sft | | | - | 232.410sft | BM 1000 | |
| - 151 | | | 5.265sft | - 5.777sft | 232.640sft | BM 1000 | |
| | 5.261sft | | | - | 223.160sft | BM 1000 | |
| - 152 | | | 5.030sft | - 6.008sft | 229.230sft | BM 1000 | |
| | 5.100sft | | | - | 227.530sft | BM 1000 | |
| - 153 | | | 5.244sft | - 5.864sft | 234.350sft | BM 1000 | |
| | 5.137sft | | | - | 234.650sft | BM 1000 | |
| - 154 | | | 5.466sft | - 5.535sft | 233.560sft | BM 1000 | |
| | 4.889sft | | | - | 224.150sft | BM 1000 | |
| - 155 | | | 4.943sft | - 5.481sft | 239.600sft | BM 1000 | |
| | 5.033sft | | | - | 226.050sft | BM 1000 | |
| - 156 | | | 5.057sft | - 5.457sft | 237.400sft | BM 1000 | |
| | 4.783sft | | | - | 220.370sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 157 | | | 5.039sft | - 5.201sft | 227.200sft | BM 1000 | |
| | 5.291sft | | | - | 227.360sft | BM 1000 | |
| - 158 | | | 5.551sft | - 4.941sft | 233.790sft | BM 1000 | |
| | 5.034sft | | | - | 232.450sft | BM 1000 | |
| - 159 | | | 5.035sft | - 4.940sft | 227.850sft | BM 1000 | |
| | 4.987sft | | | - | 231.590sft | BM 1000 | |
| - 160 | | | 5.133sft | - 4.794sft | 236.090sft | BM 1000 | |
| | 4.825sft | | | - | 228.210sft | BM 1000 | |
| - 161 | | | 4.909sft | - 4.710sft | 232.640sft | BM 1000 | |
| | 5.049sft | | | - | 234.380sft | BM 1000 | |
| - 162 | | | 4.909sft | - 4.850sft | 233.690sft | BM 1000 | |
| | 5.027sft | | | - | 230.450sft | BM 1000 | |
| - 163 | | | 4.966sft | - 4.911sft | 227.920sft | BM 1000 | |
| | 4.859sft | | | - | 233.330sft | BM 1000 | |
| - 164 | | | 4.684sft | - 5.086sft | 233.140sft | BM 1000 | |
| | 4.743sft | | | - | 225.200sft | BM 1000 | |
| - 165 | | | 5.100sft | - 4.729sft | 229.690sft | BM 1000 | |
| | 5.243sft | | | - | 222.740sft | BM 1000 | |
| - 166 | | | 5.146sft | - 4.826sft | 229.820sft | BM 1000 | |
| | 4.860sft | | | - | 234.250sft | BM 1000 | |
| - 167 | | | 4.917sft | - 4.769sft | 236.120sft | BM 1000 | |
| | 4.926sft | | | - | 223.590sft | BM 1000 | |
| - 168 | | | 4.666sft | - 5.029sft | 227.590sft | BM 1000 | |
| | 4.500sft | | | - | 235.430sft | BM 1000 | |
| - 169 | | | 5.045sft | - 4.484sft | 242.320sft | BM 1000 | |
| | 5.157sft | | | - | 229.560sft | BM 1000 | |
| - 170 | | | 4.765sft | - 4.876sft | 233.530sft | BM 1000 | |
| | 4.699sft | | | - | 224.440sft | BM 1000 | |
| - 171 | | | 5.098sft | - 4.477sft | 233.270sft | BM 1000 | |
| | 5.219sft | | | - | 225.230sft | BM 1000 | |
| - 172 | | | 5.093sft | - 4.603sft | 231.200sft | BM 1000 | |
| | 5.073sft | | | - | 223.200sft | BM 1000 | |
| - 173 | | | 5.119sft | - 4.557sft | 237.270sft | BM 1000 | |
| | 4.935sft | | | - | 230.450sft | BM 1000 | |
| - 174 | | | 4.931sft | - 4.561sft | 232.320sft | BM 1000 | |
| | 4.892sft | | | - | 224.080sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 175 | | | 4.837sft | - 4.616sft | 231.330sft | BM 1000 | |
| | 4.943sft | | | - | 230.580sft | BM 1000 | |
| - 176 | | | 5.068sft | - 4.491sft | 223.230sft | BM 1000 | |
| | 5.049sft | | | - | 221.520sft | BM 1000 | |
| - 177 | | | 4.980sft | - 4.560sft | 226.570sft | BM 1000 | |
| | 4.769sft | | | - | 219.750sft | BM 1000 | |
| - 178 | | | 4.774sft | - 4.555sft | 232.220sft | BM 1000 | |
| | 4.904sft | | | - | 125.390sft | BM 1000 | |
| - 179 | | | 4.963sft | - 4.496sft | 125.300sft | BM 1000 | |
| | 4.984sft | | | - | 234.280sft | BM 1000 | |
| - 180 | | | 4.844sft | - 4.636sft | 242.950sft | BM 1000 | |
| | 4.658sft | | | - | 231.890sft | BM 1000 | |
| - 181 | | | 4.771sft | - 4.523sft | 239.630sft | BM 1000 | |
| | 5.274sft | | | - | 226.180sft | BM 1000 | |
| - 182 | | | 5.131sft | - 4.666sft | 235.100sft | BM 1000 | |
| | 4.814sft | | | - | 225.460sft | BM 1000 | |
| - 183 | | | 5.038sft | - 4.442sft | 242.220sft | BM 1000 | |
| | 4.805sft | | | - | 242.450sft | BM 1000 | |
| - 184 | | | 4.754sft | - 4.493sft | 238.650sft | BM 1000 | |
| | 5.215sft | | | - | 211.650sft | BM 1000 | |
| - 185 | | | 4.897sft | - 4.811sft | 223.130sft | BM 1000 | |
| | 4.900sft | | | - | 236.680sft | BM 1000 | |
| - 186 | | | 5.175sft | - 4.536sft | 234.740sft | BM 1000 | |
| | 4.995sft | | | - | 239.110sft | BM 1000 | |
| - 187 | | | 4.772sft | - 4.759sft | 239.830sft | BM 1000 | |
| | 5.307sft | | | - | 247.770sft | BM 1000 | |
| - 188 | | | 4.886sft | - 5.180sft | 242.360sft | BM 1000 | |
| | 5.026sft | | | - | 226.610sft | BM 1000 | |
| - 189 | | | 4.960sft | - 5.246sft | 229.360sft | BM 1000 | |
| | 5.360sft | | | - | 231.690sft | BM 1000 | |
| - 190 | | | 5.228sft | - 5.378sft | 239.830sft | BM 1000 | |
| | 4.937sft | | | - | 227.260sft | BM 1000 | |
| - 191 | | | 5.050sft | - 5.265sft | 237.730sft | BM 1000 | |
| | 5.173sft | | | - | 238.680sft | BM 1000 | |
| - 192 | | | 4.964sft | - 5.474sft | 239.400sft | BM 1000 | |
| | 5.386sft | | | - | 243.800sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 193 | | | 5.020sft | - 5.840sft | 240.780sft | BM 1000 | |
| | 4.936sft | | | - | 239.600sft | BM 1000 | |
| - 194 | | | 5.307sft | - 5.469sft | 241.400sft | BM 1000 | |
| | 5.071sft | | | - | 218.080sft | BM 1000 | |
| - 195 | | | 4.976sft | - 5.564sft | 225.390sft | BM 1000 | |
| | 5.138sft | | | - | 129.560sft | BM 1000 | |
| - 196 | | | 5.101sft | - 5.601sft | 124.570sft | BM 1000 | |
| | 4.773sft | | | - | 236.710sft | BM 1000 | |
| - SGT4W5 | | | 5.917sft | - 4.457sft | 98.260sft | BM 1000 | |
| | 5.695sft | | | - | 98.950sft | BM 1000 | |
| - 198 | | | 4.646sft | - 5.506sft | 209.420sft | BM 1000 | |
| | 5.133sft | | | - | 232.510sft | BM 1000 | |
| - 199 | | | 5.004sft | - 5.635sft | 233.890sft | BM 1000 | |
| | 4.989sft | | | - | 228.120sft | BM 1000 | |
| - 200 | | | 4.814sft | - 5.810sft | 228.740sft | BM 1000 | |
| | 4.833sft | | | - | 233.920sft | BM 1000 | |
| - 201 | | | 4.955sft | - 5.688sft | 234.350sft | BM 1000 | |
| | 4.647sft | | | - | 193.600sft | BM 1000 | |
| - 202 | | | 4.841sft | - 5.494sft | 202.330sft | BM 1000 | |
| | 4.913sft | | | - | 234.650sft | BM 1000 | |
| - 203 | | | 5.481sft | - 4.926sft | 237.500sft | BM 1000 | |
| | 5.220sft | | | - | 247.149sft | BM 1000 | |
| - 204 | | | 4.629sft | - 5.517sft | 248.520sft | BM 1000 | |
| | 4.962sft | | | - | 227.490sft | BM 1000 | |
| - 205 | | | 5.199sft | - 5.280sft | 229.300sft | BM 1000 | |
| | 4.957sft | | | - | 234.870sft | BM 1000 | |
| - 206 | | | 5.084sft | - 5.153sft | 237.930sft | BM 1000 | |
| | 4.790sft | | | - | 236.380sft | BM 1000 | |
| - 207 | | | 5.513sft | - 4.430sft | 240.850sft | BM 1000 | |
| | 5.093sft | | | - | 262.169sft | BM 1000 | |
| - 208 | | | 4.791sft | - 4.732sft | 249.380sft | BM 1000 | |
| | 4.992sft | | | - | 222.740sft | BM 1000 | |
| - 209 | | | 4.885sft | - 4.839sft | 230.220sft | BM 1000 | |
| | 4.801sft | | | - | 234.940sft | BM 1000 | |
| - 210 | | | 5.362sft | - 4.278sft | 238.650sft | BM 1000 | |
| | 4.959sft | | | - | 235.470sft | BM 1000 | |

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|---|---|---|---|---|---|---|---|
| - 211 | | | 4.760sft | - 4.477sft | 234.580sft | BM 1000 | |
| | 4.991sft | | | - | 228.350sft | BM 1000 | |
| - 212 | | | 4.885sft | - 4.583sft | 219.520sft | BM 1000 | |
| | 4.948sft | | | - | 229.790sft | BM 1000 | |
| - 213 | | | 4.966sft | - 4.565sft | 227.200sft | BM 1000 | |
| | 5.117sft | | | - | 220.730sft | BM 1000 | |
| - 214 | | | 5.091sft | - 4.591sft | 237.790sft | BM 1000 | |
| | 4.887sft | | | - | 237.570sft | BM 1000 | |
| - 215 | | | 4.831sft | - 4.647sft | 239.660sft | BM 1000 | |
| | 4.697sft | | | - | 241.730sft | BM 1000 | |
| - 216 | | | 4.767sft | - 4.577sft | 221.060sft | BM 1000 | |
| | 4.837sft | | | - | 231.790sft | BM 1000 | |
| - 217 | | | 4.869sft | - 4.545sft | 227.130sft | BM 1000 | |
| | 4.939sft | | | - | 232.780sft | BM 1000 | |
| - 218 | | | 4.528sft | - 4.956sft | 223.850sft | BM 1000 | |
| | 4.690sft | | | - | 231.990sft | BM 1000 | |
| - 219 | | | 4.977sft | - 4.669sft | 235.470sft | BM 1000 | |
| | 4.599sft | | | - | 225.820sft | BM 1000 | |
| - 220 | | | 4.642sft | - 4.626sft | 233.530sft | BM 1000 | |
| | 4.792sft | | | - | 240.650sft | BM 1000 | |
| - 221 | | | 4.927sft | - 4.491sft | 228.080sft | BM 1000 | |
| | 5.107sft | | | - | 235.700sft | BM 1000 | |
| - 222 | | | 2.632sft | - 6.966sft | 223.490sft | BM 1000 | |
| | 5.313sft | | | - | 227.030sft | BM 1000 | |
| - 223 | | | 6.079sft | - 6.200sft | 223.390sft | BM 1000 | |
| | 4.141sft | | | - | 227.230sft | BM 1000 | |
| - 224 | | | 5.323sft | - 5.018sft | 224.410sft | BM 1000 | |
| | 4.950sft | | | - | 228.710sft | BM 1000 | |
| - 225 | | | 4.930sft | - 5.038sft | 228.740sft | BM 1000 | |
| | 5.009sft | | | - | 230.080sft | BM 1000 | |
| - 226 | | | 4.904sft | - 5.143sft | 232.380sft | BM 1000 | |
| | 4.829sft | | | - | 234.940sft | BM 1000 | |
| - 227 | | | 5.064sft | - 4.908sft | 235.630sft | BM 1000 | |
| | 5.019sft | | | - | 218.470sft | BM 1000 | |
| - 228 | | | 5.020sft | - 4.907sft | 219.160sft | BM 1000 | |
| | 5.216sft | | | - | 228.610sft | BM 1000 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| - 229 | | | 4.980sft | - 5.143sft | 233.330sft | BM 1000 | |
| | 5.078sft | | | - | 228.210sft | BM 1000 | |
| - 230 | | | 5.067sft | - 5.154sft | 229.360sft | BM 1000 | |
| | 4.828sft | | | - | 225.950sft | BM 1000 | |
| - 231 | | | 4.840sft | - 5.142sft | 226.080sft | BM 1000 | |
| | 4.899sft | | | - | 231.400sft | BM 1000 | |
| - 232 | | | 4.924sft | - 5.117sft | 231.660sft | BM 1000 | |
| | 4.678sft | | | - | 227.620sft | BM 1000 | |
| - 233 | | | 4.857sft | - 4.938sft | 228.900sft | BM 1000 | |
| | 5.055sft | | | - | 221.590sft | BM 1000 | |
| - 234 | | | 5.270sft | - 4.723sft | 223.230sft | BM 1000 | |
| | 4.993sft | | | - | 227.430sft | BM 1000 | |
| - 235 | | | 4.690sft | - 5.026sft | 226.280sft | BM 1000 | |
| | 4.826sft | | | - | 244.290sft | BM 1000 | |
| - 9249 | | | 6.173sft | - 3.679sft | 324.049sft | BM 1000 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | 9248 | 1 | - | 0.776sft |
| LR2 | 1 | 2 | - | -0.010sft |
| LR3 | 2 | 3 | - | 0.409sft |
| LR4 | 3 | 4 | - | -0.090sft |
| LR5 | 4 | 5 | - | -0.055sft |
| LR6 | 5 | 6 | - | 0.198sft |
| LR7 | 6 | 7 | - | 0.124sft |
| LR8 | 7 | 8 | - | -0.234sft |
| LR9 | 8 | 9 | - | -0.270sft |
| LR10 | 9 | 10 | - | 0.178sft |
| LR11 | 10 | 11 | - | 0.161sft |
| LR12 | 11 | 12 | - | -0.359sft |
| LR13 | 12 | 13 | - | 0.779sft |
| LR14 | 13 | 14 | - | 2.179sft |
| LR15 | 14 | 15 | - | -2.876sft |
| LR16 | 15 | 16 | - | 0.593sft |
| LR17 | 16 | 17 | - | 0.153sft |

| | | | | |
|---|---|---|---|---|
| LR18 | 17 | 18 | - | -0.042sft |
| LR19 | 18 | 19 | - | 0.686sft |
| LR20 | 19 | 20 | - | -0.262sft |
| LR21 | 20 | 21 | - | -0.157sft |
| LR22 | 21 | 22 | - | -0.675sft |
| LR23 | 22 | 23 | - | -0.136sft |
| LR24 | 23 | 24 | - | 0.244sft |
| LR25 | 24 | 25 | - | -0.143sft |
| LR26 | 25 | 26 | - | 0.080sft |
| LR27 | 26 | 27 | - | 0.164sft |
| LR28 | 27 | 28 | - | -0.074sft |
| LR29 | 28 | 29 | - | -0.230sft |
| LR30 | 29 | 30 | - | 0.398sft |
| LR31 | 30 | 31 | - | 0.546sft |
| LR32 | 31 | 32 | - | -0.660sft |
| LR33 | 32 | 33 | - | 0.747sft |
| LR34 | 33 | 34 | - | 0.038sft |
| LR35 | 34 | 35 | - | 0.014sft |
| LR36 | 35 | 36 | - | 0.176sft |
| LR37 | 36 | 37 | - | -0.074sft |
| LR38 | 37 | 38 | - | 0.139sft |
| LR39 | 38 | 39 | - | 2.631sft |
| LR40 | 39 | 40 | - | -2.691sft |
| LR41 | 40 | 41 | - | -0.906sft |
| LR42 | 41 | 42 | - | 0.757sft |
| LR43 | 42 | 43 | - | -0.219sft |
| LR44 | 43 | 44 | - | -0.240sft |
| LR45 | 44 | 45 | - | -0.275sft |
| LR46 | 45 | 46 | - | -0.009sft |
| LR47 | 46 | 47 | - | 0.608sft |
| LR48 | 47 | 48 | - | -0.837sft |
| LR49 | 48 | 49 | - | 0.413sft |
| LR50 | 49 | 50 | - | 0.178sft |
| LR51 | 50 | 51 | - | 0.421sft |
| LR52 | 51 | 52 | - | -0.174sft |
| LR53 | 52 | 53 | - | 0.009sft |
| LR54 | 53 | 54 | - | 0.087sft |
| LR55 | 54 | 55 | - | 0.271sft |
| | | | - | |

| | | | | |
|---|---|---|---|---|
| LR56 | 55 | 56 | | -0.001sft |
| LR57 | 56 | 57 | - | 0.079sft |
| LR58 | 57 | 58 | - | -0.659sft |
| LR59 | 58 | 59 | - | 0.301sft |
| LR60 | 59 | 60 | - | 0.168sft |
| LR61 | 60 | 61 | - | 0.069sft |
| LR62 | 61 | 62 | - | -0.221sft |
| LR63 | 62 | 63 | - | -0.026sft |
| LR64 | 63 | 64 | - | 0.201sft |
| LR65 | 64 | 65 | - | -0.134sft |
| LR66 | 65 | 66 | - | 0.269sft |
| LR67 | 66 | 67 | - | 0.738sft |
| LR68 | 67 | 68 | - | -0.114sft |
| LR69 | 68 | 69 | - | 0.260sft |
| LR70 | 69 | 70 | - | 0.177sft |
| LR71 | 70 | 71 | - | -0.413sft |
| LR72 | 71 | 72 | - | 0.186sft |
| LR73 | 72 | 73 | - | -0.458sft |
| LR74 | 73 | 74 | - | 0.077sft |
| LR75 | 74 | 75 | - | 0.086sft |
| LR76 | 75 | 76 | - | 0.248sft |
| LR77 | 76 | 77 | - | -0.386sft |
| LR78 | 77 | 78 | - | 0.396sft |
| LR79 | 78 | 79 | - | 0.118sft |
| LR80 | 79 | 80 | - | 0.209sft |
| LR81 | 80 | 81 | - | -0.295sft |
| LR82 | 81 | 82 | - | 0.385sft |
| LR83 | 82 | 83 | - | -0.761sft |
| LR84 | 83 | 84 | - | 0.227sft |
| LR85 | 84 | 85 | - | -0.431sft |
| LR86 | 85 | 86 | - | 0.390sft |
| LR87 | 86 | 87 | - | 0.227sft |
| LR88 | 87 | 88 | - | -0.187sft |
| LR89 | 88 | 89 | - | -0.201sft |
| LR90 | 89 | 90 | - | 0.288sft |
| LR91 | 90 | 91 | - | -0.367sft |
| LR92 | 91 | 92 | - | 0.259sft |
| LR93 | 92 | 93 | - | 0.001sft |
| | | | - | |

| | | | | |
|---|---|---|---|---|
| LR94 | 93 | 94 | | -0.168sft |
| LR95 | 94 | 95 | - | 0.204sft |
| LR96 | 95 | 96 | - | -0.688sft |
| LR97 | 96 | 97 | - | 0.131sft |
| LR98 | 97 | 98 | - | 0.877sft |
| LR99 | 98 | 99 | - | -0.460sft |
| LR100 | 99 | 100 | - | 0.229sft |
| LR101 | 100 | 101 | - | -0.875sft |
| LR102 | 101 | 102 | - | 1.278sft |
| LR103 | 102 | 103 | - | -1.869sft |
| LR104 | 103 | 104 | - | 0.497sft |
| LR105 | 104 | 105 | - | 0.485sft |
| LR106 | 105 | 106 | - | 0.095sft |
| LR107 | 106 | 107 | - | -1.284sft |
| LR108 | 107 | 108 | - | 0.199sft |
| LR109 | 108 | 109 | - | 0.223sft |
| LR110 | 109 | 110 | - | -0.169sft |
| LR111 | 110 | 111 | - | 0.294sft |
| LR112 | 111 | 112 | - | -0.887sft |
| LR113 | 112 | 113 | - | 1.020sft |
| LR114 | 113 | 114 | - | 0.140sft |
| LR115 | 114 | 115 | - | -0.297sft |
| LR116 | 115 | 116 | - | 0.334sft |
| LR117 | 116 | 117 | - | -0.202sft |
| LR118 | 117 | 118 | - | -0.242sft |
| LR119 | 118 | 119 | - | -0.041sft |
| LR120 | 119 | 120 | - | -0.099sft |
| LR121 | 120 | 121 | - | -0.300sft |
| LR122 | 121 | 122 | - | 0.371sft |
| LR123 | 122 | 123 | - | -0.074sft |
| LR124 | 123 | 124 | - | -0.350sft |
| LR125 | 124 | 125 | - | -0.290sft |
| LR126 | 125 | 126 | - | 0.087sft |
| LR127 | 126 | 127 | - | -0.632sft |
| LR128 | 127 | 128 | - | -0.148sft |
| LR129 | 128 | 129 | - | 0.511sft |
| LR130 | 129 | 130 | - | 0.335sft |
| LR131 | 130 | 131 | - | -0.500sft |
| | | | - | |

| | | | | |
|---|---|---|---|---|
| LR132 | 131 | 132 | | -0.414sft |
| LR133 | 132 | 133 | - | 0.260sft |
| LR134 | 133 | 134 | - | -0.221sft |
| LR135 | 134 | 135 | - | -0.125sft |
| LR136 | 135 | 136 | - | 0.267sft |
| LR137 | 136 | 137 | - | 0.240sft |
| LR138 | 137 | 138 | - | -0.232sft |
| LR139 | 138 | 139 | - | -0.176sft |
| LR140 | 139 | 140 | - | 0.376sft |
| LR141 | 140 | 141 | - | -0.093sft |
| LR142 | 141 | 142 | - | -0.311sft |
| LR143 | 142 | 143 | - | 0.213sft |
| LR144 | 143 | 144 | - | 1.581sft |
| LR145 | 144 | 145 | - | -0.938sft |
| LR146 | 145 | 146 | - | -1.382sft |
| LR147 | 146 | 147 | - | 0.592sft |
| LR148 | 147 | 148 | - | 0.118sft |
| LR149 | 148 | 149 | - | -0.006sft |
| LR150 | 149 | 150 | - | -0.145sft |
| LR151 | 150 | 151 | - | -0.182sft |
| LR152 | 151 | 152 | - | 0.231sft |
| LR153 | 152 | 153 | - | -0.144sft |
| LR154 | 153 | 154 | - | -0.329sft |
| LR155 | 154 | 155 | - | -0.054sft |
| LR156 | 155 | 156 | - | -0.024sft |
| LR157 | 156 | 157 | - | -0.256sft |
| LR158 | 157 | 158 | - | -0.260sft |
| LR159 | 158 | 159 | - | -0.001sft |
| LR160 | 159 | 160 | - | -0.146sft |
| LR161 | 160 | 161 | - | -0.084sft |
| LR162 | 161 | 162 | - | 0.140sft |
| LR163 | 162 | 163 | - | 0.061sft |
| LR164 | 163 | 164 | - | 0.175sft |
| LR165 | 164 | 165 | - | -0.357sft |
| LR166 | 165 | 166 | - | 0.097sft |
| LR167 | 166 | 167 | - | -0.057sft |
| LR168 | 167 | 168 | - | 0.260sft |
| LR169 | 168 | 169 | - | -0.545sft |
| | | | - | |

| | | | | |
|---|---|---|---|---|
| LR170 | 169 | 170 | | 0.392sft |
| LR171 | 170 | 171 | - | -0.399sft |
| LR172 | 171 | 172 | - | 0.126sft |
| LR173 | 172 | 173 | - | -0.046sft |
| LR174 | 173 | 174 | - | 0.004sft |
| LR175 | 174 | 175 | - | 0.055sft |
| LR176 | 175 | 176 | - | -0.125sft |
| LR177 | 176 | 177 | - | 0.069sft |
| LR178 | 177 | 178 | - | -0.005sft |
| LR179 | 178 | 179 | - | -0.059sft |
| LR180 | 179 | 180 | - | 0.140sft |
| LR181 | 180 | 181 | - | -0.113sft |
| LR182 | 181 | 182 | - | 0.143sft |
| LR183 | 182 | 183 | - | -0.224sft |
| LR184 | 183 | 184 | - | 0.051sft |
| LR185 | 184 | 185 | - | 0.318sft |
| LR186 | 185 | 186 | - | -0.275sft |
| LR187 | 186 | 187 | - | 0.223sft |
| LR188 | 187 | 188 | - | 0.421sft |
| LR189 | 188 | 189 | - | 0.066sft |
| LR190 | 189 | 190 | - | 0.132sft |
| LR191 | 190 | 191 | - | -0.113sft |
| LR192 | 191 | 192 | - | 0.209sft |
| LR193 | 192 | 193 | - | 0.366sft |
| LR194 | 193 | 194 | - | -0.371sft |
| LR195 | 194 | 195 | - | 0.095sft |
| LR196 | 195 | 196 | - | 0.037sft |
| LR197 | 196 | 197 | - | -1.144sft |
| LR198 | 197 | 198 | - | 1.049sft |
| LR199 | 198 | 199 | - | 0.129sft |
| LR200 | 199 | 200 | - | 0.175sft |
| LR201 | 200 | 201 | - | -0.122sft |
| LR202 | 201 | 202 | - | -0.194sft |
| LR203 | 202 | 203 | - | -0.568sft |
| LR204 | 203 | 204 | - | 0.591sft |
| LR205 | 204 | 205 | - | -0.237sft |
| LR206 | 205 | 206 | - | -0.127sft |
| LR207 | 206 | 207 | - | -0.723sft |
| | | | - | |

| | | | | |
|---|---|---|---|---|
| LR208 | 207 | 208 | | 0.302sft |
| LR209 | 208 | 209 | - | 0.107sft |
| LR210 | 209 | 210 | - | -0.561sft |
| LR211 | 210 | 211 | - | 0.199sft |
| LR212 | 211 | 212 | - | 0.106sft |
| LR213 | 212 | 213 | - | -0.018sft |
| LR214 | 213 | 214 | - | 0.026sft |
| LR215 | 214 | 215 | - | 0.056sft |
| LR216 | 215 | 216 | - | -0.070sft |
| LR217 | 216 | 217 | - | -0.032sft |
| LR218 | 217 | 218 | - | 0.411sft |
| LR219 | 218 | 219 | - | -0.287sft |
| LR220 | 219 | 220 | - | -0.043sft |
| LR221 | 220 | 221 | - | -0.135sft |
| LR222 | 221 | 222 | - | 2.475sft |
| LR223 | 222 | 223 | - | -0.766sft |
| LR224 | 223 | 224 | - | -1.182sft |
| LR225 | 224 | 225 | - | 0.020sft |
| LR226 | 225 | 226 | - | 0.105sft |
| LR227 | 226 | 227 | - | -0.235sft |
| LR228 | 227 | 228 | - | -0.001sft |
| LR229 | 228 | 229 | - | 0.236sft |
| LR230 | 229 | 230 | - | 0.011sft |
| LR231 | 230 | 231 | - | -0.012sft |
| LR232 | 231 | 232 | - | -0.025sft |
| LR233 | 232 | 233 | - | -0.179sft |
| LR234 | 233 | 234 | - | -0.215sft |
| LR235 | 234 | 235 | - | 0.303sft |
| LR236 | 235 | 236 | - | -1.347sft |

**Back to top**

# Points

### *Project : LINE6*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 3:09:01 PM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD 88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| 9252 | ? | ? | 6.728 | |
| 1 | ? | ? | 7.228 | |
| 2 | ? | ? | 7.006 | |
| 3 | ? | ? | 6.852 | |
| 4 | ? | ? | 7.125 | |
| 5 | ? | ? | 7.252 | |
| 6 | ? | ? | 7.368 | |
| 7 | ? | ? | 7.456 | |
| 8 | ? | ? | 7.268 | |
| 9 | ? | ? | 7.463 | |
| 10 | ? | ? | 7.852 | |
| 11 | ? | ? | 8.201 | |
| 12 | ? | ? | 8.497 | |
| 13 | ? | ? | 7.899 | |
| 14 | ? | ? | 7.959 | |
| 15 | ? | ? | 7.896 | |
| 16 | ? | ? | 8.020 | |
| 17 | ? | ? | 7.743 | |
| 18 | ? | ? | 8.089 | |
| 19 | ? | ? | 7.793 | |
| 20 | ? | ? | 7.865 | |
| 21 | ? | ? | 8.049 | |
| 22 | ? | ? | 8.251 | |
| 23 | ? | ? | 8.552 | |
| 24 | ? | ? | 8.202 | |
| 25 | ? | ? | 8.361 | |
| 26 | ? | ? | 8.686 | |
| 27 | ? | ? | 8.240 | |
| 28 | ? | ? | 8.004 | |
| 29 | ? | ? | 7.864 | |
| 30 | ? | ? | 7.894 | |
| 31 | ? | ? | 7.810 | |
| 32 | ? | ? | 7.829 | |
| 33 | ? | ? | 7.618 | |
| 34 | ? | ? | 7.902 | |
| 35 | ? | ? | 8.109 | |
| 36 | ? | ? | 8.390 | |
| 37 | ? | ? | 7.923 | |
| 38 | ? | ? | 7.836 | |
| 39 | ? | ? | 9.315 | |
| 40 | ? | ? | 9.108 | |

| | | | |
|---|---|---|---|
| 41 | ? | ? | 9.484 |
| 42 | ? | ? | 8.790 |
| 43 | ? | ? | 8.985 |
| 44 | ? | ? | 9.001 |
| SGT2W6 | ? | ? | 8.678 |
| 46 | ? | ? | 8.981 |
| 47 | ? | ? | 8.566 |
| 48 | ? | ? | 9.015 |
| 49 | ? | ? | 9.307 |
| 50 | ? | ? | 9.054 |
| 51 | ? | ? | 8.908 |
| 52 | ? | ? | 8.001 |
| 53 | ? | ? | 7.794 |
| 54 | ? | ? | 8.299 |
| 55 | ? | ? | 7.990 |
| 56 | ? | ? | 7.811 |
| 57 | ? | ? | 7.609 |
| 58 | ? | ? | 7.934 |
| 59 | ? | ? | 7.813 |
| 60 | ? | ? | 7.894 |
| 61 | ? | ? | 8.163 |
| 62 | ? | ? | 8.351 |
| 63 | ? | ? | 8.323 |
| 64 | ? | ? | 8.174 |
| 65 | ? | ? | 8.726 |
| 66 | ? | ? | 8.971 |
| 67 | ? | ? | 8.935 |
| 68 | ? | ? | 8.673 |
| 69 | ? | ? | 8.644 |
| 70 | ? | ? | 8.753 |
| 71 | ? | ? | 8.906 |
| 72 | ? | ? | 8.998 |
| 73 | ? | ? | 9.649 |
| 74 | ? | ? | 9.497 |
| 75 | ? | ? | 9.618 |
| SGT2W5 | ? | ? | 9.444 |
| 77 | ? | ? | 9.472 |
| 78 | ? | ? | 9.313 |
| 79 | ? | ? | 9.513 |
| 80 | ? | ? | 9.545 |
| 81 | ? | ? | 8.879 |
| 82 | ? | ? | 8.856 |
| 83 | ? | ? | 8.947 |
| 84 | ? | ? | 9.337 |
| A9253 | ? | ? | 9.307 |
| 86 | ? | ? | 10.092 |
| 87 | ? | ? | 10.630 |
| 88 | ? | ? | 10.516 |
| 89 | ? | ? | 10.546 |
| 90 | ? | ? | 10.564 |
| 91 | ? | ? | 11.123 |
| 92 | ? | ? | 10.895 |
| 93 | ? | ? | 10.381 |
| 94 | ? | ? | 10.250 |
| 95 | ? | ? | 10.548 |
| 96 | ? | ? | 10.679 |
| 97 | ? | ? | 10.470 |
| 98 | ? | ? | 10.130 |
| 99 | ? | ? | 10.352 |
| 100 | ? | ? | 10.955 |

| | | | |
|---|---|---|---|
| 101 | ? | ? | 11.225 |
| 102 | ? | ? | 11.007 |
| 103 | ? | ? | 11.128 |
| 104 | ? | ? | 11.480 |
| 105 | ? | ? | 11.367 |
| 106 | ? | ? | 10.922 |
| 107 | ? | ? | 10.875 |
| 108 | ? | ? | 11.008 |
| 109 | ? | ? | 10.692 |
| 110 | ? | ? | 10.952 |
| 111 | ? | ? | 10.722 |
| 112 | ? | ? | 10.880 |
| 113 | ? | ? | 11.418 |
| SGT1W5 | ? | ? | 10.916 |
| 115 | ? | ? | 10.963 |
| 116 | ? | ? | 11.037 |
| 117 | ? | ? | 11.015 |
| 118 | ? | ? | 10.739 |
| 119 | ? | ? | 11.024 |
| 120 | ? | ? | 11.231 |
| 121 | ? | ? | 11.095 |
| 122 | ? | ? | 10.338 |
| 123 | ? | ? | 11.635 |
| 124 | ? | ? | 11.781 |
| 125 | ? | ? | 10.855 |
| 126 | ? | ? | 10.800 |
| 127 | ? | ? | 11.236 |
| 128 | ? | ? | 10.985 |
| 129 | ? | ? | 10.298 |
| 130 | ? | ? | 10.262 |
| 131 | ? | ? | 10.637 |
| 132 | ? | ? | 10.839 |
| 133 | ? | ? | 10.798 |
| 134 | ? | ? | 10.374 |
| 135 | ? | ? | 10.457 |
| 136 | ? | ? | 10.973 |
| 137 | ? | ? | 11.272 |
| 138 | ? | ? | 10.670 |
| 139 | ? | ? | 10.674 |
| 140 | ? | ? | 10.643 |
| 141 | ? | ? | 10.777 |
| 142 | ? | ? | 10.099 |
| B9253 | ? | ? | 9.319 |
| 144 | ? | ? | 9.281 |
| 145 | ? | ? | 9.162 |
| 146 | ? | ? | 9.170 |
| 147 | ? | ? | 8.822 |
| 148 | ? | ? | 8.962 |
| 149 | ? | ? | 9.621 |
| 150 | ? | ? | 9.413 |
| 151 | ? | ? | 9.225 |
| 152 | ? | ? | 9.875 |
| 153 | ? | ? | 10.243 |
| 154 | ? | ? | 10.668 |
| 155 | ? | ? | 10.114 |
| 156 | ? | ? | 10.288 |
| 157 | ? | ? | 10.336 |
| 158 | ? | ? | 9.850 |
| 159 | ? | ? | 9.728 |
| 160 | ? | ? | 9.531 |

| | | | |
|---|---|---|---|
| SGT2W4 | ? | ? | 9.762 |
| 162 | ? | ? | 9.487 |
| 163 | ? | ? | 9.678 |
| 164 | ? | ? | 9.622 |
| 165 | ? | ? | 9.591 |
| 166 | ? | ? | 9.892 |
| 167 | ? | ? | 9.940 |
| 168 | ? | ? | 9.826 |
| 169 | ? | ? | 9.933 |
| 170 | ? | ? | 10.014 |
| 171 | ? | ? | 10.589 |
| 172 | ? | ? | 10.786 |
| 173 | ? | ? | 10.254 |
| 174 | ? | ? | 10.210 |
| 175 | ? | ? | 9.770 |
| 176 | ? | ? | 10.330 |
| 177 | ? | ? | 10.192 |
| 178 | ? | ? | 9.627 |
| 179 | ? | ? | 9.793 |
| 180 | ? | ? | 10.230 |
| 181 | ? | ? | 9.977 |
| 182 | ? | ? | 9.829 |
| 183 | ? | ? | 10.351 |
| 184 | ? | ? | 10.947 |
| 185 | ? | ? | 11.001 |
| 186 | ? | ? | 10.586 |
| 187 | ? | ? | 10.541 |
| 188 | ? | ? | 10.517 |
| 189 | ? | ? | 11.169 |
| 190 | ? | ? | 11.086 |
| 191 | ? | ? | 11.227 |
| 192 | ? | ? | 11.039 |
| 193 | ? | ? | 10.623 |
| 194 | ? | ? | 10.747 |
| 195 | ? | ? | 10.449 |
| 196 | ? | ? | 10.404 |
| 197 | ? | ? | 11.264 |
| 198 | ? | ? | 11.082 |
| 199 | ? | ? | 10.848 |
| 200 | ? | ? | 10.953 |
| 201 | ? | ? | 11.463 |
| 202 | ? | ? | 11.115 |
| 203 | ? | ? | 11.374 |
| 204 | ? | ? | 10.928 |
| 205 | ? | ? | 10.915 |
| 206 | ? | ? | 11.097 |
| 207 | ? | ? | 10.570 |
| 208 | ? | ? | 9.807 |
| SGT1W4 | ? | ? | 10.169 |
| 210 | ? | ? | 10.976 |
| 211 | ? | ? | 10.837 |
| 212 | ? | ? | 10.888 |
| 213 | ? | ? | 11.249 |
| 214 | ? | ? | 11.497 |
| 215 | ? | ? | 11.283 |
| 216 | ? | ? | 10.649 |
| 217 | ? | ? | 10.795 |
| COLL0018 | ? | ? | 10.734 |
| 219 | ? | ? | 10.358 |
| 220 | ? | ? | 10.331 |

| | | | |
|---|---|---|---|
| 221 | ? | ? | 10.648 |
| 222 | ? | ? | 10.692 |
| 223 | ? | ? | 9.960 |
| 224 | ? | ? | 9.601 |
| 225 | ? | ? | 9.739 |
| 226 | ? | ? | 10.049 |
| 227 | ? | ? | 10.225 |
| 228 | ? | ? | 10.383 |
| 229 | ? | ? | 10.470 |
| 230 | ? | ? | 10.293 |
| 231 | ? | ? | 10.382 |
| 232 | ? | ? | 10.256 |
| 233 | ? | ? | 10.606 |
| 234 | ? | ? | 10.900 |
| 235 | ? | ? | 10.942 |
| J598 | ? | ? | 9.234 |

**Back to top**

# Level Report *(0006.DAT)*

## Contents



Back to top

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## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| 9252 | 5.965sft | | | 6.728sft | 175.070sft | BM 1 | |
| 1 | | | 5.465sft | 7.228sft | 173.690sft | BM 1 | |
| | 5.384sft | | | | 226.800sft | BM 1 | |
| 2 | | | 5.607sft | 7.005sft | 232.150sft | BM 1 | |
| | 5.057sft | | | | 192.910sft | BM 1 | |
| 3 | | | 5.211sft | 6.851sft | 193.500sft | BM 1 | |
| | 5.645sft | | | | 204.720sft | BM 1 | |
| 4 | | | 5.372sft | 7.124sft | 209.650sft | BM 1 | |
| | 5.347sft | | | | 246.000sft | BM 1 | |
| 5 | | | 5.221sft | 7.250sft | 261.119sft | BM 1 | |
| | 5.145sft | | | | 236.970sft | BM 1 | |
| 6 | | | 5.029sft | 7.366sft | 240.160sft | BM 1 | |
| | 5.758sft | | | | 237.300sft | BM 1 | |
| 7 | | | 5.670sft | 7.454sft | 238.980sft | BM 1 | |
| | 5.197sft | | | | 225.660sft | BM 1 | |
| | | | 5.386sft | | 239.860sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 8 | | | | 7.265sft | | | |
| | 5.537sft | | | | 246.360sft | BM 1 | |
| 9 | | | 5.342sft | 7.460sft | 240.290sft | BM 1 | |
| | 5.668sft | | | | 226.020sft | BM 1 | |
| 10 | | | 5.279sft | 7.849sft | 229.720sft | BM 1 | |
| | 5.342sft | | | | 232.610sft | BM 1 | |
| 11 | | | 4.994sft | 8.197sft | 234.550sft | BM 1 | |
| | 5.676sft | | | | 226.840sft | BM 1 | |
| 12 | | | 5.380sft | 8.493sft | 237.170sft | BM 1 | |
| | 5.187sft | | | | 225.330sft | BM 1 | |
| 13 | | | 5.785sft | 7.895sft | 233.300sft | BM 1 | |
| | 5.412sft | | | | 239.730sft | BM 1 | |
| 14 | | | 5.352sft | 7.955sft | 232.870sft | BM 1 | |
| | 5.276sft | | | | 205.770sft | BM 1 | |
| 15 | | | 5.340sft | 7.891sft | 215.290sft | BM 1 | |
| | 5.562sft | | | | 232.640sft | BM 1 | |
| 16 | | | 5.438sft | 8.015sft | 237.660sft | BM 1 | |
| | 5.531sft | | | | 218.110sft | BM 1 | |
| 17 | | | 5.808sft | 7.738sft | 225.230sft | BM 1 | |
| | 5.397sft | | | | 242.720sft | BM 1 | |
| 18 | | | 5.052sft | 8.083sft | 241.400sft | BM 1 | |
| | 5.391sft | | | | 223.390sft | BM 1 | |
| 19 | | | 5.687sft | 7.787sft | 233.230sft | BM 1 | |
| | 5.273sft | | | | 225.850sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 20 | | | 5.201sft | 7.859sft | 235.500sft | BM 1 | |
| | 5.780sft | | | | 229.820sft | BM 1 | |
| 21 | | | 5.597sft | 8.042sft | 253.149sft | BM 1 | |
| | 5.745sft | | | | 227.390sft | BM 1 | |
| 22 | | | 5.543sft | 8.244sft | 233.330sft | BM 1 | |
| | 5.515sft | | | | 238.550sft | BM 1 | |
| 23 | | | 5.214sft | 8.545sft | 233.560sft | BM 1 | |
| | 5.166sft | | | | 243.630sft | BM 1 | |
| 24 | | | 5.517sft | 8.194sft | 240.260sft | BM 1 | |
| | 5.395sft | | | | 223.750sft | BM 1 | |
| 25 | | | 5.236sft | 8.353sft | 234.740sft | BM 1 | |
| | 5.598sft | | | | 229.100sft | BM 1 | |
| 26 | | | 5.273sft | 8.678sft | 228.580sft | BM 1 | |
| | 5.044sft | | | | 206.760sft | BM 1 | |
| 27 | | | 5.491sft | 8.231sft | 210.140sft | BM 1 | |
| | 5.293sft | | | | 238.090sft | BM 1 | |
| 28 | | | 5.529sft | 7.995sft | 231.760sft | BM 1 | |
| | 5.120sft | | | | 230.380sft | BM 1 | |
| 29 | | | 5.260sft | 7.855sft | 252.759sft | BM 1 | |
| | 5.321sft | | | | 243.010sft | BM 1 | |
| 30 | | | 5.292sft | 7.884sft | 221.000sft | BM 1 | |
| | 5.310sft | | | | 148.650sft | BM 1 | |
| 31 | | | 5.394sft | 7.800sft | 155.050sft | BM 1 | |
| | 5.175sft | | | | 219.650sft | BM 1 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 32 | | | 5.156sft | 7.819sft | 222.570sft | BM 1 | |
| | 5.378sft | | | | 228.740sft | BM 1 | |
| 33 | | | 5.590sft | 7.607sft | 233.790sft | BM 1 | |
| | 5.619sft | | | | 227.200sft | BM 1 | |
| 34 | | | 5.335sft | 7.891sft | 228.640sft | BM 1 | |
| | 5.438sft | | | | 241.080sft | BM 1 | |
| 35 | | | 5.231sft | 8.098sft | 255.739sft | BM 1 | |
| | 5.615sft | | | | 226.180sft | BM 1 | |
| 36 | | | 5.335sft | 8.378sft | 231.300sft | BM 1 | |
| | 5.111sft | | | | 240.650sft | BM 1 | |
| 37 | | | 5.578sft | 7.911sft | 224.180sft | BM 1 | |
| | 5.344sft | | | | 237.470sft | BM 1 | |
| 38 | | | 5.431sft | 7.824sft | 250.429sft | BM 1 | |
| | 5.640sft | | | | 230.640sft | BM 1 | |
| 39 | | | 4.162sft | 9.302sft | 236.610sft | BM 1 | |
| | 5.020sft | | | | 233.100sft | BM 1 | |
| 40 | | | 5.227sft | 9.095sft | 240.520sft | BM 1 | |
| | 5.195sft | | | | 244.980sft | BM 1 | |
| 41 | | | 4.819sft | 9.471sft | 232.090sft | BM 1 | |
| | 5.010sft | | | | 240.490sft | BM 1 | |
| 42 | | | 5.705sft | 8.776sft | 248.690sft | BM 1 | |
| | 4.516sft | | | | 229.460sft | BM 1 | |
| 43 | | | 4.321sft | 8.971sft | 233.040sft | BM 1 | |
| | 5.156sft | | | | 140.810sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 44 | | | 5.140sft | 8.987sft | 128.440sft | BM 1 | |
| | 4.518sft | | | | 132.870sft | BM 1 | |
| SGT2W6 | | | 4.841sft | 8.664sft | 141.830sft | BM 1 | |
| | 4.911sft | | | | 140.390sft | BM 1 | |
| 46 | | | 4.609sft | 8.966sft | 129.200sft | BM 1 | |
| | 5.242sft | | | | 222.640sft | BM 1 | |
| 47 | | | 5.657sft | 8.551sft | 222.970sft | BM 1 | |
| | 5.267sft | | | | 222.830sft | BM 1 | |
| 48 | | | 4.818sft | 9.000sft | 224.340sft | BM 1 | |
| | 5.139sft | | | | 224.380sft | BM 1 | |
| 49 | | | 4.848sft | 9.291sft | 232.680sft | BM 1 | |
| | 4.923sft | | | | 221.000sft | BM 1 | |
| 50 | | | 5.176sft | 9.038sft | 224.440sft | BM 1 | |
| | 5.521sft | | | | 221.160sft | BM 1 | |
| 51 | | | 5.667sft | 8.892sft | 224.020sft | BM 1 | |
| | 4.237sft | | | | 223.100sft | BM 1 | |
| 52 | | | 5.145sft | 7.984sft | 227.390sft | BM 1 | |
| | 5.368sft | | | | 231.630sft | BM 1 | |
| 53 | | | 5.575sft | 7.777sft | 224.080sft | BM 1 | |
| | 5.371sft | | | | 235.990sft | BM 1 | |
| 54 | | | 4.866sft | 8.282sft | 227.790sft | BM 1 | |
| | 5.136sft | | | | 216.600sft | BM 1 | |
| 55 | | | 5.446sft | 7.972sft | 236.320sft | BM 1 | |
| | 5.030sft | | | | 237.630sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 56 | | | 5.209sft | 7.793sft | 229.000sft | BM 1 | |
| | 5.426sft | | | | 225.790sft | BM 1 | |
| 57 | | | 5.628sft | 7.591sft | 236.650sft | BM 1 | |
| | 5.317sft | | | | 232.780sft | BM 1 | |
| 58 | | | 4.993sft | 7.915sft | 225.690sft | BM 1 | |
| | 4.847sft | | | | 227.720sft | BM 1 | |
| 59 | | | 4.968sft | 7.794sft | 216.990sft | BM 1 | |
| | 5.227sft | | | | 89.210sft | BM 1 | |
| 60 | | | 5.146sft | 7.875sft | 90.350sft | BM 1 | |
| | 5.042sft | | | | 235.470sft | BM 1 | |
| 61 | | | 4.774sft | 8.143sft | 235.040sft | BM 1 | |
| | 5.006sft | | | | 228.250sft | BM 1 | |
| 62 | | | 4.818sft | 8.331sft | 229.660sft | BM 1 | |
| | 5.075sft | | | | 240.880sft | BM 1 | |
| 63 | | | 5.103sft | 8.303sft | 244.680sft | BM 1 | |
| | 4.837sft | | | | 223.850sft | BM 1 | |
| 64 | | | 4.987sft | 8.153sft | 225.590sft | BM 1 | |
| | 5.210sft | | | | 232.710sft | BM 1 | |
| 65 | | | 4.658sft | 8.705sft | 213.550sft | BM 1 | |
| | 4.888sft | | | | 229.300sft | BM 1 | |
| 66 | | | 4.643sft | 8.950sft | 229.300sft | BM 1 | |
| | 4.930sft | | | | 230.380sft | BM 1 | |
| 67 | | | 4.967sft | 8.913sft | 229.990sft | BM 1 | |
| | 4.906sft | | | | 231.660sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 68 | | | 5.168sft | 8.651sft | 230.180sft | BM 1 | |
| | 5.097sft | | | | 222.240sft | BM 1 | |
| 69 | | | 5.126sft | 8.622sft | 226.180sft | BM 1 | |
| | 4.971sft | | | | 243.310sft | BM 1 | |
| 70 | | | 4.863sft | 8.730sft | 240.980sft | BM 1 | |
| | 4.827sft | | | | 230.080sft | BM 1 | |
| 71 | | | 4.674sft | 8.883sft | 230.280sft | BM 1 | |
| | 4.915sft | | | | 227.300sft | BM 1 | |
| 72 | | | 4.823sft | 8.975sft | 226.540sft | BM 1 | |
| | 5.081sft | | | | 229.920sft | BM 1 | |
| 73 | | | 4.430sft | 9.626sft | 177.100sft | BM 1 | |
| | 4.599sft | | | | 161.290sft | BM 1 | |
| 74 | | | 4.752sft | 9.473sft | 227.000sft | BM 1 | |
| | 4.897sft | | | | 228.120sft | BM 1 | |
| 75 | | | 4.776sft | 9.594sft | 226.610sft | BM 1 | |
| | 5.004sft | | | | 116.210sft | BM 1 | |
| SGT2W5 | | | 5.178sft | 9.420sft | 133.730sft | BM 1 | |
| | 4.940sft | | | | 198.160sft | BM 1 | |
| 77 | | | 4.913sft | 9.447sft | 198.650sft | BM 1 | |
| | 4.864sft | | | | 225.660sft | BM 1 | |
| 78 | | | 5.023sft | 9.288sft | 229.460sft | BM 1 | |
| | 5.168sft | | | | 241.800sft | BM 1 | |
| 79 | | | 4.968sft | 9.488sft | 231.500sft | BM 1 | |
| | 4.840sft | | | | 222.510sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 80 | | | 4.809sft | 9.519sft | 225.160sft | BM 1 | |
| | 4.483sft | | | | 223.920sft | BM 1 | |
| 81 | | | 5.149sft | 8.853sft | 226.440sft | BM 1 | |
| | 4.911sft | | | | 226.840sft | BM 1 | |
| 82 | | | 4.934sft | 8.830sft | 227.200sft | BM 1 | |
| | 4.941sft | | | | 232.180sft | BM 1 | |
| 83 | | | 4.851sft | 8.920sft | 233.300sft | BM 1 | |
| | 4.949sft | | | | 200.950sft | BM 1 | |
| 84 | | | 4.559sft | 9.310sft | 206.040sft | BM 1 | |
| | 4.863sft | | | | 75.390sft | BM 1 | |
| A9253 | | | 4.893sft | 9.280sft | 80.380sft | BM 1 | |
| | 5.664sft | | | | 218.800sft | BM 1 | |
| 86 | | | 4.880sft | 10.064sft | 226.050sft | BM 1 | |
| | 5.355sft | | | | 231.760sft | BM 1 | |
| 87 | | | 4.817sft | 10.602sft | 231.590sft | BM 1 | |
| | 4.905sft | | | | 236.520sft | BM 1 | |
| 88 | | | 5.019sft | 10.488sft | 233.370sft | BM 1 | |
| | 5.078sft | | | | 229.920sft | BM 1 | |
| 89 | | | 5.049sft | 10.517sft | 229.030sft | BM 1 | |
| | 5.125sft | | | | 234.580sft | BM 1 | |
| 90 | | | 5.107sft | 10.535sft | 234.420sft | BM 1 | |
| | 5.075sft | | | | 225.690sft | BM 1 | |
| 91 | | | 4.516sft | 11.094sft | 225.100sft | BM 1 | |
| | 4.638sft | | | | 223.880sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 92 | | | 4.867sft | 10.865sft | 227.530sft | BM 1 | |
| | 4.833sft | | | | 243.770sft | BM 1 | |
| 93 | | | 5.347sft | 10.351sft | 240.710sft | BM 1 | |
| | 5.092sft | | | | 208.730sft | BM 1 | |
| 94 | | | 5.223sft | 10.220sft | 204.860sft | BM 1 | |
| | 5.140sft | | | | 231.730sft | BM 1 | |
| 95 | | | 4.843sft | 10.517sft | 233.370sft | BM 1 | |
| | 4.926sft | | | | 226.480sft | BM 1 | |
| 96 | | | 4.795sft | 10.648sft | 225.750sft | BM 1 | |
| | 4.723sft | | | | 228.050sft | BM 1 | |
| 97 | | | 4.932sft | 10.439sft | 228.250sft | BM 1 | |
| | 5.071sft | | | | 220.240sft | BM 1 | |
| 98 | | | 5.412sft | 10.098sft | 221.160sft | BM 1 | |
| | 4.983sft | | | | 228.020sft | BM 1 | |
| 99 | | | 4.761sft | 10.320sft | 226.150sft | BM 1 | |
| | 5.401sft | | | | 224.410sft | BM 1 | |
| 100 | | | 4.798sft | 10.923sft | 225.230sft | BM 1 | |
| | 5.171sft | | | | 215.620sft | BM 1 | |
| 101 | | | 4.902sft | 11.192sft | 217.320sft | BM 1 | |
| | 4.422sft | | | | 225.290sft | BM 1 | |
| 102 | | | 4.640sft | 10.974sft | 226.610sft | BM 1 | |
| | 4.705sft | | | | 227.230sft | BM 1 | |
| 103 | | | 4.584sft | 11.095sft | 229.460sft | BM 1 | |
| | 5.577sft | | | | 216.440sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 104 | | | 5.225sft | 11.447sft | 219.000sft | BM 1 | |
| | 4.923sft | | | | 213.320sft | BM 1 | |
| 105 | | | 5.037sft | 11.333sft | 215.580sft | BM 1 | |
| | 4.050sft | | | | 227.560sft | BM 1 | |
| 106 | | | 4.495sft | 10.888sft | 230.120sft | BM 1 | |
| | 4.836sft | | | | 161.350sft | BM 1 | |
| 107 | | | 4.883sft | 10.841sft | 156.430sft | BM 1 | |
| | 5.185sft | | | | 228.540sft | BM 1 | |
| 108 | | | 5.053sft | 10.973sft | 238.320sft | BM 1 | |
| | 4.660sft | | | | 221.520sft | BM 1 | |
| 109 | | | 4.976sft | 10.657sft | 221.460sft | BM 1 | |
| | 5.050sft | | | | 120.730sft | BM 1 | |
| 110 | | | 4.790sft | 10.917sft | 124.310sft | BM 1 | |
| | 5.051sft | | | | 232.280sft | BM 1 | |
| 111 | | | 5.282sft | 10.686sft | 230.120sft | BM 1 | |
| | 5.252sft | | | | 231.100sft | BM 1 | |
| 112 | | | 5.094sft | 10.844sft | 228.210sft | BM 1 | |
| | 5.102sft | | | | 185.600sft | BM 1 | |
| 113 | | | 4.564sft | 11.382sft | 177.530sft | BM 1 | |
| | 5.177sft | | | | 113.350sft | BM 1 | |
| SGT1W5 | | | 5.680sft | 10.879sft | 119.090sft | BM 1 | |
| | 5.799sft | | | | 225.390sft | BM 1 | |
| 115 | | | 5.752sft | 10.926sft | 225.950sft | BM 1 | |
| | 4.864sft | | | | 227.360sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 116 | | | 4.790sft | 11.000sft | 224.380sft | BM 1 | |
| | 4.668sft | | | | 226.870sft | BM 1 | |
| 117 | | | 4.691sft | 10.977sft | 226.310sft | BM 1 | |
| | 4.881sft | | | | 166.470sft | BM 1 | |
| 118 | | | 5.157sft | 10.701sft | 176.640sft | BM 1 | |
| | 5.310sft | | | | 234.510sft | BM 1 | |
| 119 | | | 5.025sft | 10.986sft | 199.050sft | BM 1 | |
| | 4.579sft | | | | 108.690sft | BM 1 | |
| 120 | | | 4.373sft | 11.192sft | 113.320sft | BM 1 | |
| | 4.746sft | | | | 229.920sft | BM 1 | |
| 121 | | | 4.882sft | 11.056sft | 230.640sft | BM 1 | |
| | 4.741sft | | | | 142.550sft | BM 1 | |
| 122 | | | 5.498sft | 10.299sft | 138.750sft | BM 1 | |
| | 5.889sft | | | | 229.490sft | BM 1 | |
| 123 | | | 4.593sft | 11.595sft | 231.040sft | BM 1 | |
| | 4.928sft | | | | 229.300sft | BM 1 | |
| 124 | | | 4.782sft | 11.741sft | 229.990sft | BM 1 | |
| | 4.472sft | | | | 228.250sft | BM 1 | |
| 125 | | | 5.398sft | 10.815sft | 230.640sft | BM 1 | |
| | 5.215sft | | | | 230.020sft | BM 1 | |
| 126 | | | 5.271sft | 10.759sft | 230.120sft | BM 1 | |
| | 5.097sft | | | | 114.040sft | BM 1 | |
| 127 | | | 4.661sft | 11.195sft | 118.570sft | BM 1 | |
| | 4.834sft | | | | 227.760sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 128 | | | 5.085sft | 10.944sft | 233.170sft | BM 1 | |
| | 4.719sft | | | | 225.850sft | BM 1 | |
| 129 | | | 5.407sft | 10.256sft | 227.850sft | BM 1 | |
| | 5.098sft | | | | 231.070sft | BM 1 | |
| 130 | | | 5.134sft | 10.220sft | 232.940sft | BM 1 | |
| | 5.616sft | | | | 191.830sft | BM 1 | |
| 131 | | | 5.241sft | 10.595sft | 195.050sft | BM 1 | |
| | 4.920sft | | | | 229.820sft | BM 1 | |
| 132 | | | 4.718sft | 10.797sft | 229.170sft | BM 1 | |
| | 4.820sft | | | | 225.950sft | BM 1 | |
| 133 | | | 4.862sft | 10.755sft | 226.120sft | BM 1 | |
| | 4.658sft | | | | 227.920sft | BM 1 | |
| 134 | | | 5.082sft | 10.331sft | 231.690sft | BM 1 | |
| | 5.320sft | | | | 230.310sft | BM 1 | |
| 135 | | | 5.237sft | 10.414sft | 229.630sft | BM 1 | |
| | 5.416sft | | | | 228.150sft | BM 1 | |
| 136 | | | 4.901sft | 10.929sft | 227.660sft | BM 1 | |
| | 5.026sft | | | | 229.490sft | BM 1 | |
| 137 | | | 4.727sft | 11.228sft | 231.660sft | BM 1 | |
| | 4.502sft | | | | 227.000sft | BM 1 | |
| 138 | | | 5.104sft | 10.626sft | 229.430sft | BM 1 | |
| | 5.212sft | | | | 229.560sft | BM 1 | |
| 139 | | | 5.209sft | 10.629sft | 229.860sft | BM 1 | |
| | 4.897sft | | | | 226.510sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 140 | | | 4.928sft | 10.598sft | 227.430sft | BM 1 | |
| | 5.090sft | | | | 226.570sft | BM 1 | |
| 141 | | | 4.956sft | 10.732sft | 231.990sft | BM 1 | |
| | 4.719sft | | | | 228.080sft | BM 1 | |
| 142 | | | 5.398sft | 10.053sft | 230.610sft | BM 1 | |
| | 5.063sft | | | | 208.400sft | BM 1 | |
| B9253 | | | 5.843sft | 9.273sft | 258.559sft | BM 1 | |
| | 4.978sft | | | | 209.250sft | BM 1 | |
| 144 | | | 5.016sft | 9.235sft | 209.780sft | BM 1 | |
| | 4.725sft | | | | 229.360sft | BM 1 | |
| 145 | | | 4.845sft | 9.115sft | 230.680sft | BM 1 | |
| | 4.675sft | | | | 209.510sft | BM 1 | |
| 146 | | | 4.667sft | 9.123sft | 211.420sft | BM 1 | |
| | 4.405sft | | | | 227.300sft | BM 1 | |
| 147 | | | 4.753sft | 8.775sft | 225.980sft | BM 1 | |
| | 4.749sft | | | | 221.620sft | BM 1 | |
| 148 | | | 4.610sft | 8.914sft | 221.160sft | BM 1 | |
| | 5.569sft | | | | 228.610sft | BM 1 | |
| 149 | | | 4.910sft | 9.573sft | 227.100sft | BM 1 | |
| | 4.958sft | | | | 224.840sft | BM 1 | |
| 150 | | | 5.166sft | 9.365sft | 226.120sft | BM 1 | |
| | 4.228sft | | | | 226.870sft | BM 1 | |
| 151 | | | 4.417sft | 9.176sft | 227.660sft | BM 1 | |
| | 5.040sft | | | | 227.720sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 152 | | | 4.390sft | 9.826sft | 229.200sft | BM 1 | |
| | 4.590sft | | | | 226.020sft | BM 1 | |
| 153 | | | 4.222sft | 10.194sft | 227.000sft | BM 1 | |
| | 5.510sft | | | | 228.350sft | BM 1 | |
| 154 | | | 5.086sft | 10.618sft | 226.940sft | BM 1 | |
| | 4.452sft | | | | 220.900sft | BM 1 | |
| 155 | | | 5.006sft | 10.064sft | 223.720sft | BM 1 | |
| | 4.888sft | | | | 229.100sft | BM 1 | |
| 156 | | | 4.714sft | 10.238sft | 228.670sft | BM 1 | |
| | 4.560sft | | | | 228.510sft | BM 1 | |
| 157 | | | 4.513sft | 10.285sft | 227.390sft | BM 1 | |
| | 4.677sft | | | | 198.590sft | BM 1 | |
| 158 | | | 5.163sft | 9.799sft | 198.750sft | BM 1 | |
| | 4.582sft | | | | 227.300sft | BM 1 | |
| 159 | | | 4.704sft | 9.677sft | 227.850sft | BM 1 | |
| | 4.878sft | | | | 227.590sft | BM 1 | |
| 160 | | | 5.076sft | 9.479sft | 227.620sft | BM 1 | |
| | 4.957sft | | | | 214.370sft | BM 1 | |
| SGT2W4 | | | 4.726sft | 9.710sft | 215.810sft | BM 1 | |
| | 4.672sft | | | | 216.110sft | BM 1 | |
| 162 | | | 4.947sft | 9.435sft | 216.700sft | BM 1 | |
| | 5.249sft | | | | 208.300sft | BM 1 | |
| 163 | | | 5.058sft | 9.626sft | 210.300sft | BM 1 | |
| | 4.677sft | | | | 205.480sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 164 | | | 4.734sft | 9.569sft | 205.640sft | BM 1 | |
| | 4.690sft | | | | 206.200sft | BM 1 | |
| 165 | | | 4.721sft | 9.538sft | 204.890sft | BM 1 | |
| | 4.893sft | | | | 202.720sft | BM 1 | |
| 166 | | | 4.592sft | 9.839sft | 203.610sft | BM 1 | |
| | 4.888sft | | | | 201.900sft | BM 1 | |
| 167 | | | 4.841sft | 9.886sft | 202.760sft | BM 1 | |
| | 4.804sft | | | | 202.990sft | BM 1 | |
| 168 | | | 4.918sft | 9.772sft | 204.490sft | BM 1 | |
| | 4.878sft | | | | 202.070sft | BM 1 | |
| 169 | | | 4.771sft | 9.879sft | 202.530sft | BM 1 | |
| | 5.032sft | | | | 201.250sft | BM 1 | |
| 170 | | | 4.952sft | 9.959sft | 201.480sft | BM 1 | |
| | 5.079sft | | | | 198.200sft | BM 1 | |
| 171 | | | 4.504sft | 10.534sft | 200.660sft | BM 1 | |
| | 5.025sft | | | | 195.670sft | BM 1 | |
| 172 | | | 4.828sft | 10.731sft | 197.470sft | BM 1 | |
| | 4.923sft | | | | 200.000sft | BM 1 | |
| 173 | | | 5.456sft | 10.198sft | 200.330sft | BM 1 | |
| | 5.035sft | | | | 198.390sft | BM 1 | |
| 174 | | | 5.079sft | 10.154sft | 202.330sft | BM 1 | |
| | 4.595sft | | | | 200.030sft | BM 1 | |
| 175 | | | 5.035sft | 9.714sft | 201.480sft | BM 1 | |
| | 5.382sft | | | | 198.460sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 176 | | | 4.823sft | 10.273sft | 197.340sft | BM 1 | |
| | 5.067sft | | | | 197.540sft | BM 1 | |
| 177 | | | 5.205sft | 10.135sft | 197.310sft | BM 1 | |
| | 4.829sft | | | | 198.390sft | BM 1 | |
| 178 | | | 5.394sft | 9.570sft | 198.200sft | BM 1 | |
| | 4.952sft | | | | 199.970sft | BM 1 | |
| 179 | | | 4.787sft | 9.735sft | 200.260sft | BM 1 | |
| | 5.336sft | | | | 200.430sft | BM 1 | |
| 180 | | | 4.899sft | 10.172sft | 200.330sft | BM 1 | |
| | 4.904sft | | | | 200.070sft | BM 1 | |
| 181 | | | 5.157sft | 9.919sft | 200.520sft | BM 1 | |
| | 4.726sft | | | | 198.690sft | BM 1 | |
| 182 | | | 4.875sft | 9.770sft | 198.290sft | BM 1 | |
| | 5.068sft | | | | 199.570sft | BM 1 | |
| 183 | | | 4.546sft | 10.292sft | 200.330sft | BM 1 | |
| | 5.141sft | | | | 198.690sft | BM 1 | |
| 184 | | | 4.545sft | 10.888sft | 199.470sft | BM 1 | |
| | 4.507sft | | | | 199.410sft | BM 1 | |
| 185 | | | 4.454sft | 10.941sft | 200.070sft | BM 1 | |
| | 4.563sft | | | | 197.280sft | BM 1 | |
| 186 | | | 4.978sft | 10.526sft | 196.260sft | BM 1 | |
| | 4.938sft | | | | 200.690sft | BM 1 | |
| 187 | | | 4.983sft | 10.481sft | 197.740sft | BM 1 | |
| | 5.130sft | | | | 199.440sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 188 | | | 5.155sft | 10.456sft | 200.100sft | BM 1 | |
| | 5.291sft | | | | 200.100sft | BM 1 | |
| 189 | | | 4.639sft | 11.108sft | 201.710sft | BM 1 | |
| | 4.660sft | | | | 199.610sft | BM 1 | |
| 190 | | | 4.743sft | 11.025sft | 199.180sft | BM 1 | |
| | 4.632sft | | | | 205.710sft | BM 1 | |
| 191 | | | 4.492sft | 11.165sft | 203.740sft | BM 1 | |
| | 4.721sft | | | | 203.810sft | BM 1 | |
| 192 | | | 4.909sft | 10.977sft | 203.710sft | BM 1 | |
| | 4.883sft | | | | 199.700sft | BM 1 | |
| 193 | | | 5.299sft | 10.561sft | 196.650sft | BM 1 | |
| | 5.178sft | | | | 201.510sft | BM 1 | |
| 194 | | | 5.054sft | 10.685sft | 203.900sft | BM 1 | |
| | 4.974sft | | | | 201.440sft | BM 1 | |
| 195 | | | 5.273sft | 10.386sft | 202.560sft | BM 1 | |
| | 5.271sft | | | | 200.330sft | BM 1 | |
| 196 | | | 5.316sft | 10.341sft | 200.520sft | BM 1 | |
| | 5.415sft | | | | 199.380sft | BM 1 | |
| 197 | | | 4.555sft | 11.201sft | 198.650sft | BM 1 | |
| | 4.829sft | | | | 199.770sft | BM 1 | |
| 198 | | | 5.012sft | 11.018sft | 196.920sft | BM 1 | |
| | 5.200sft | | | | 197.800sft | BM 1 | |
| 199 | | | 5.434sft | 10.784sft | 201.380sft | BM 1 | |
| | 5.199sft | | | | 198.790sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 200 | | | 5.094sft | 10.889sft | 196.880sft | BM 1 | |
| | 5.546sft | | | | 200.690sft | BM 1 | |
| 201 | | | 5.037sft | 11.398sft | 200.660sft | BM 1 | |
| | 4.575sft | | | | 199.770sft | BM 1 | |
| 202 | | | 4.923sft | 11.050sft | 197.470sft | BM 1 | |
| | 4.948sft | | | | 199.180sft | BM 1 | |
| 203 | | | 4.689sft | 11.309sft | 200.030sft | BM 1 | |
| | 4.934sft | | | | 198.850sft | BM 1 | |
| 204 | | | 5.381sft | 10.862sft | 198.390sft | BM 1 | |
| | 4.793sft | | | | 223.950sft | BM 1 | |
| 205 | | | 4.806sft | 10.849sft | 226.710sft | BM 1 | |
| | 5.124sft | | | | 225.750sft | BM 1 | |
| 206 | | | 4.942sft | 11.031sft | 222.900sft | BM 1 | |
| | 4.868sft | | | | 225.130sft | BM 1 | |
| 207 | | | 5.396sft | 10.503sft | 225.390sft | BM 1 | |
| | 5.119sft | | | | 231.630sft | BM 1 | |
| 208 | | | 5.882sft | 9.740sft | 231.430sft | BM 1 | |
| | 5.058sft | | | | 98.290sft | BM 1 | |
| SGT1W4 | | | 4.696sft | 10.102sft | 98.000sft | BM 1 | |
| | 4.904sft | | | | 228.900sft | BM 1 | |
| 210 | | | 4.098sft | 10.908sft | 243.730sft | BM 1 | |
| | 4.980sft | | | | 191.010sft | BM 1 | |
| 211 | | | 5.119sft | 10.769sft | 193.240sft | BM 1 | |
| | 5.090sft | | | | 195.540sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 212 | | | 5.039sft | 10.820sft | 194.750sft | BM 1 | |
| | 5.363sft | | | | 229.170sft | BM 1 | |
| 213 | | | 5.003sft | 11.180sft | 229.070sft | BM 1 | |
| | 5.210sft | | | | 228.940sft | BM 1 | |
| 214 | | | 4.962sft | 11.428sft | 229.070sft | BM 1 | |
| | 4.448sft | | | | 235.700sft | BM 1 | |
| 215 | | | 4.662sft | 11.214sft | 236.740sft | BM 1 | |
| | 4.696sft | | | | 224.150sft | BM 1 | |
| 216 | | | 5.331sft | 10.579sft | 222.900sft | BM 1 | |
| | 5.356sft | | | | 119.720sft | BM 1 | |
| 217 | | | 5.210sft | 10.725sft | 120.700sft | BM 1 | |
| | 4.058sft | | | | 132.870sft | BM 1 | |
| COLL0018 | | | 4.119sft | 10.664sft | 132.350sft | BM 1 | |
| | 5.065sft | | | | 228.840sft | BM 1 | |
| 219 | | | 5.442sft | 10.287sft | 228.970sft | BM 1 | |
| | 5.431sft | | | | 229.590sft | BM 1 | |
| 220 | | | 5.458sft | 10.260sft | 229.430sft | BM 1 | |
| | 5.407sft | | | | 233.300sft | BM 1 | |
| 221 | | | 5.090sft | 10.577sft | 231.230sft | BM 1 | |
| | 5.169sft | | | | 226.120sft | BM 1 | |
| 222 | | | 5.125sft | 10.621sft | 226.020sft | BM 1 | |
| | 4.765sft | | | | 223.950sft | BM 1 | |
| 223 | | | 5.498sft | 9.888sft | 223.850sft | BM 1 | |
| | 4.739sft | | | | 229.660sft | BM 1 | |

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|---|---|---|---|---|---|---|---|---|
| | 224 | | | 5.098sft | 9.529sft | 228.840sft | BM 1 | |
| | | 5.082sft | | | | 230.080sft | BM 1 | |
| | 225 | | | 4.944sft | 9.667sft | 229.400sft | BM 1 | |
| | | 5.351sft | | | | 235.530sft | BM 1 | |
| | 226 | | | 5.042sft | 9.976sft | 233.400sft | BM 1 | |
| | | 5.110sft | | | | 223.920sft | BM 1 | |
| | 227 | | | 4.934sft | 10.152sft | 224.020sft | BM 1 | |
| | | 5.028sft | | | | 225.160sft | BM 1 | |
| | 228 | | | 4.870sft | 10.310sft | 225.100sft | BM 1 | |
| | | 5.079sft | | | | 230.350sft | BM 1 | |
| | 229 | | | 4.993sft | 10.396sft | 230.050sft | BM 1 | |
| | | 4.994sft | | | | 232.320sft | BM 1 | |
| | 230 | | | 5.171sft | 10.219sft | 229.720sft | BM 1 | |
| | | 5.304sft | | | | 228.580sft | BM 1 | |
| | 231 | | | 5.215sft | 10.308sft | 227.620sft | BM 1 | |
| | | 5.002sft | | | | 226.670sft | BM 1 | |
| | 232 | | | 5.129sft | 10.181sft | 226.900sft | BM 1 | |
| | | 5.576sft | | | | 164.270sft | BM 1 | |
| | 233 | | | 5.226sft | 10.531sft | 163.580sft | BM 1 | |
| | | 4.555sft | | | | 224.770sft | BM 1 | |
| | 234 | | | 4.261sft | 10.825sft | 223.260sft | BM 1 | |
| | | 4.638sft | | | | 226.940sft | BM 1 | |
| | 235 | | | 4.597sft | 10.866sft | 227.000sft | BM 1 | |
| | | 4.466sft | | | | 219.750sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| J598 | | | 6.174sft | 9.158sft | 221.650sft | BM 1 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | 9252 | 1 | | 0.500sft |
| LR2 | 1 | 2 | | -0.223sft |
| LR3 | 2 | 3 | | -0.154sft |
| LR4 | 3 | 4 | | 0.273sft |
| LR5 | 4 | 5 | | 0.126sft |
| LR6 | 5 | 6 | | 0.116sft |
| LR7 | 6 | 7 | | 0.088sft |
| LR8 | 7 | 8 | | -0.189sft |
| LR9 | 8 | 9 | | 0.195sft |
| LR10 | 9 | 10 | | 0.389sft |
| LR11 | 10 | 11 | | 0.348sft |
| LR12 | 11 | 12 | | 0.296sft |
| LR13 | 12 | 13 | | -0.598sft |
| LR14 | 13 | 14 | | 0.060sft |
| LR15 | 14 | 15 | | -0.064sft |
| LR16 | 15 | 16 | | 0.124sft |
| LR17 | 16 | 17 | | -0.277sft |
| LR18 | 17 | 18 | | 0.345sft |
| LR19 | 18 | 19 | | -0.296sft |
| LR20 | 19 | 20 | | 0.072sft |
| LR21 | 20 | 21 | | 0.183sft |
| LR22 | 21 | 22 | | 0.202sft |

| | | | | |
|---|---|---|---|---|
| LR23 | 22 | 23 | | 0.301sft |
| LR24 | 23 | 24 | | -0.351sft |
| LR25 | 24 | 25 | | 0.159sft |
| LR26 | 25 | 26 | | 0.325sft |
| LR27 | 26 | 27 | | -0.447sft |
| LR28 | 27 | 28 | | -0.236sft |
| LR29 | 28 | 29 | | -0.140sft |
| LR30 | 29 | 30 | | 0.029sft |
| LR31 | 30 | 31 | | -0.084sft |
| LR32 | 31 | 32 | | 0.019sft |
| LR33 | 32 | 33 | | -0.212sft |
| LR34 | 33 | 34 | | 0.284sft |
| LR35 | 34 | 35 | | 0.207sft |
| LR36 | 35 | 36 | | 0.280sft |
| LR37 | 36 | 37 | | -0.467sft |
| LR38 | 37 | 38 | | -0.087sft |
| LR39 | 38 | 39 | | 1.478sft |
| LR40 | 39 | 40 | | -0.207sft |
| LR41 | 40 | 41 | | 0.376sft |
| LR42 | 41 | 42 | | -0.695sft |
| LR43 | 42 | 43 | | 0.195sft |
| LR44 | 43 | 44 | | 0.016sft |
| LR45 | 44 | SGT2W6 | | -0.323sft |
| LR46 | SGT2W6 | 46 | | 0.302sft |
| LR47 | 46 | 47 | | -0.415sft |
| LR48 | 47 | 48 | | 0.449sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR49 | 48 | 49 | | 0.291sft |
| LR50 | 49 | 50 | | -0.253sft |
| LR51 | 50 | 51 | | -0.146sft |
| LR52 | 51 | 52 | | -0.908sft |
| LR53 | 52 | 53 | | -0.207sft |
| LR54 | 53 | 54 | | 0.505sft |
| LR55 | 54 | 55 | | -0.310sft |
| LR56 | 55 | 56 | | -0.179sft |
| LR57 | 56 | 57 | | -0.202sft |
| LR58 | 57 | 58 | | 0.324sft |
| LR59 | 58 | 59 | | -0.121sft |
| LR60 | 59 | 60 | | 0.081sft |
| LR61 | 60 | 61 | | 0.268sft |
| LR62 | 61 | 62 | | 0.188sft |
| LR63 | 62 | 63 | | -0.028sft |
| LR64 | 63 | 64 | | -0.150sft |
| LR65 | 64 | 65 | | 0.552sft |
| LR66 | 65 | 66 | | 0.245sft |
| LR67 | 66 | 67 | | -0.037sft |
| LR68 | 67 | 68 | | -0.262sft |
| LR69 | 68 | 69 | | -0.029sft |
| LR70 | 69 | 70 | | 0.108sft |
| LR71 | 70 | 71 | | 0.153sft |
| LR72 | 71 | 72 | | 0.092sft |
| LR73 | 72 | 73 | | 0.651sft |
| LR74 | 73 | 74 | | -0.153sft |

| | | | | |
|---|---|---|---|---|
| LR75 | 74 | 75 | | 0.121sft |
| LR76 | 75 | SGT2W5 | | -0.174sft |
| LR77 | SGT2W5 | 77 | | 0.027sft |
| LR78 | 77 | 78 | | -0.159sft |
| LR79 | 78 | 79 | | 0.200sft |
| LR80 | 79 | 80 | | 0.031sft |
| LR81 | 80 | 81 | | -0.666sft |
| LR82 | 81 | 82 | | -0.023sft |
| LR83 | 82 | 83 | | 0.090sft |
| LR84 | 83 | 84 | | 0.390sft |
| LR85 | 84 | A9253 | | -0.030sft |
| LR86 | A9253 | 86 | | 0.784sft |
| LR87 | 86 | 87 | | 0.538sft |
| LR88 | 87 | 88 | | -0.114sft |
| LR89 | 88 | 89 | | 0.029sft |
| LR90 | 89 | 90 | | 0.018sft |
| LR91 | 90 | 91 | | 0.559sft |
| LR92 | 91 | 92 | | -0.229sft |
| LR93 | 92 | 93 | | -0.514sft |
| LR94 | 93 | 94 | | -0.131sft |
| LR95 | 94 | 95 | | 0.297sft |
| LR96 | 95 | 96 | | 0.131sft |
| LR97 | 96 | 97 | | -0.209sft |
| LR98 | 97 | 98 | | -0.341sft |
| LR99 | 98 | 99 | | 0.222sft |
| LR100 | 99 | 100 | | 0.603sft |

| | | | | |
|---|---|---|---|---|
| LR101 | 100 | 101 | | 0.269sft |
| LR102 | 101 | 102 | | -0.218sft |
| LR103 | 102 | 103 | | 0.121sft |
| LR104 | 103 | 104 | | 0.352sft |
| LR105 | 104 | 105 | | -0.114sft |
| LR106 | 105 | 106 | | -0.445sft |
| LR107 | 106 | 107 | | -0.047sft |
| LR108 | 107 | 108 | | 0.132sft |
| LR109 | 108 | 109 | | -0.316sft |
| LR110 | 109 | 110 | | 0.260sft |
| LR111 | 110 | 111 | | -0.231sft |
| LR112 | 111 | 112 | | 0.158sft |
| LR113 | 112 | 113 | | 0.538sft |
| LR114 | 113 | SGT1W5 | | -0.503sft |
| LR115 | SGT1W5 | 115 | | 0.047sft |
| LR116 | 115 | 116 | | 0.074sft |
| LR117 | 116 | 117 | | -0.023sft |
| LR118 | 117 | 118 | | -0.276sft |
| LR119 | 118 | 119 | | 0.285sft |
| LR120 | 119 | 120 | | 0.206sft |
| LR121 | 120 | 121 | | -0.136sft |
| LR122 | 121 | 122 | | -0.757sft |
| LR123 | 122 | 123 | | 1.296sft |
| LR124 | 123 | 124 | | 0.146sft |
| LR125 | 124 | 125 | | -0.926sft |
| LR126 | 125 | 126 | | -0.056sft |

| | | | | |
|---|---|---|---|---|
| LR127 | 126 | 127 | | 0.436sft |
| LR128 | 127 | 128 | | -0.251sft |
| LR129 | 128 | 129 | | -0.688sft |
| LR130 | 129 | 130 | | -0.036sft |
| LR131 | 130 | 131 | | 0.375sft |
| LR132 | 131 | 132 | | 0.202sft |
| LR133 | 132 | 133 | | -0.042sft |
| LR134 | 133 | 134 | | -0.424sft |
| LR135 | 134 | 135 | | 0.083sft |
| LR136 | 135 | 136 | | 0.515sft |
| LR137 | 136 | 137 | | 0.299sft |
| LR138 | 137 | 138 | | -0.602sft |
| LR139 | 138 | 139 | | 0.003sft |
| LR140 | 139 | 140 | | -0.031sft |
| LR141 | 140 | 141 | | 0.134sft |
| LR142 | 141 | 142 | | -0.679sft |
| LR143 | 142 | B9253 | | -0.780sft |
| LR144 | B9253 | 144 | | -0.038sft |
| LR145 | 144 | 145 | | -0.120sft |
| LR146 | 145 | 146 | | 0.008sft |
| LR147 | 146 | 147 | | -0.348sft |
| LR148 | 147 | 148 | | 0.139sft |
| LR149 | 148 | 149 | | 0.659sft |
| LR150 | 149 | 150 | | -0.208sft |
| LR151 | 150 | 151 | | -0.189sft |
| LR152 | 151 | 152 | | 0.650sft |

| | | | | |
|---|---|---|---|---|
| LR153 | 152 | 153 | | 0.368sft |
| LR154 | 153 | 154 | | 0.424sft |
| LR155 | 154 | 155 | | -0.554sft |
| LR156 | 155 | 156 | | 0.174sft |
| LR157 | 156 | 157 | | 0.047sft |
| LR158 | 157 | 158 | | -0.486sft |
| LR159 | 158 | 159 | | -0.122sft |
| LR160 | 159 | 160 | | -0.198sft |
| LR161 | 160 | SGT2W4 | | 0.231sft |
| LR162 | SGT2W4 | 162 | | -0.275sft |
| LR163 | 162 | 163 | | 0.191sft |
| LR164 | 163 | 164 | | -0.057sft |
| LR165 | 164 | 165 | | -0.031sft |
| LR166 | 165 | 166 | | 0.301sft |
| LR167 | 166 | 167 | | 0.047sft |
| LR168 | 167 | 168 | | -0.114sft |
| LR169 | 168 | 169 | | 0.107sft |
| LR170 | 169 | 170 | | 0.080sft |
| LR171 | 170 | 171 | | 0.575sft |
| LR172 | 171 | 172 | | 0.197sft |
| LR173 | 172 | 173 | | -0.533sft |
| LR174 | 173 | 174 | | -0.044sft |
| LR175 | 174 | 175 | | -0.440sft |
| LR176 | 175 | 176 | | 0.559sft |
| LR177 | 176 | 177 | | -0.138sft |
| LR178 | 177 | 178 | | -0.565sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR179 | 178 | 179 | | 0.165sft |
| LR180 | 179 | 180 | | 0.437sft |
| LR181 | 180 | 181 | | -0.253sft |
| LR182 | 181 | 182 | | -0.149sft |
| LR183 | 182 | 183 | | 0.522sft |
| LR184 | 183 | 184 | | 0.596sft |
| LR185 | 184 | 185 | | 0.053sft |
| LR186 | 185 | 186 | | -0.415sft |
| LR187 | 186 | 187 | | -0.045sft |
| LR188 | 187 | 188 | | -0.025sft |
| LR189 | 188 | 189 | | 0.652sft |
| LR190 | 189 | 190 | | -0.083sft |
| LR191 | 190 | 191 | | 0.140sft |
| LR192 | 191 | 192 | | -0.188sft |
| LR193 | 192 | 193 | | -0.416sft |
| LR194 | 193 | 194 | | 0.124sft |
| LR195 | 194 | 195 | | -0.299sft |
| LR196 | 195 | 196 | | -0.045sft |
| LR197 | 196 | 197 | | 0.860sft |
| LR198 | 197 | 198 | | -0.183sft |
| LR199 | 198 | 199 | | -0.234sft |
| LR200 | 199 | 200 | | 0.105sft |
| LR201 | 200 | 201 | | 0.509sft |
| LR202 | 201 | 202 | | -0.348sft |
| LR203 | 202 | 203 | | 0.259sft |
| LR204 | 203 | 204 | | -0.447sft |

| | | | | |
|---|---|---|---|---|
| LR205 | 204 | 205 | | -0.013sft |
| LR206 | 205 | 206 | | 0.182sft |
| LR207 | 206 | 207 | | -0.528sft |
| LR208 | 207 | 208 | | -0.763sft |
| LR209 | 208 | SGT1W4 | | 0.362sft |
| LR210 | SGT1W4 | 210 | | 0.806sft |
| LR211 | 210 | 211 | | -0.139sft |
| LR212 | 211 | 212 | | 0.051sft |
| LR213 | 212 | 213 | | 0.360sft |
| LR214 | 213 | 214 | | 0.248sft |
| LR215 | 214 | 215 | | -0.214sft |
| LR216 | 215 | 216 | | -0.635sft |
| LR217 | 216 | 217 | | 0.146sft |
| LR218 | 217 | COLL0018 | | -0.061sft |
| LR219 | COLL0018 | 219 | | -0.377sft |
| LR220 | 219 | 220 | | -0.027sft |
| LR221 | 220 | 221 | | 0.317sft |
| LR222 | 221 | 222 | | 0.044sft |
| LR223 | 222 | 223 | | -0.733sft |
| LR224 | 223 | 224 | | -0.359sft |
| LR225 | 224 | 225 | | 0.138sft |
| LR226 | 225 | 226 | | 0.309sft |
| LR227 | 226 | 227 | | 0.176sft |
| LR228 | 227 | 228 | | 0.158sft |
| LR229 | 228 | 229 | | 0.086sft |
| LR230 | 229 | 230 | | -0.177sft |

| | | | | |
|---|---|---|---|---|
| | | | ☒ | |
| LR231 | 230 | 231 | ☒ | 0.089sft |
| LR232 | 231 | 232 | ☒ | -0.127sft |
| LR233 | 232 | 233 | ☒ | 0.350sft |
| LR234 | 233 | 234 | ☒ | 0.294sft |
| LR235 | 234 | 235 | ☒ | 0.041sft |
| LR236 | 235 | J598 | ☒ | -1.708sft |

**Back to top**

# Network Adjustment Report

***Project : LINE6***

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 2:57:25 PM 12/21/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD 88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

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## Adjustment Style Settings - 95% Confidence Limits

### Residual Tolerances

**To End Iterations** : 0.000033sft
**Final Convergence Cutoff** : 0.016404sft

### Covariance Display

**Horizontal**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96

**Three-Dimensional**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96
**Elevation Errors were used in the calculations.**

### Adjustment Controls

**Compute Correlations for Geoid** : False
**Horizontal and Vertical adjustment performed**

### Set-up Errors

**Terrestrial**
**Error in Height of Instrument** : 0.000sft
**Centering Error** : 0.000sft

Back to top

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## Statistical Summary

**Successful Adjustment in 1 iteration(s)**

**Network Reference Factor** : 0.71
**Chi Square Test (α=95%)** : PASS
**Degrees of Freedom** : 1.00

## Terrestrial Observation Statistics

**Reference Factor** : 0.71
**Redundancy Number (r)** : 1.00

**ΔElevations:** Reference Factor: 0.71 **(r):** 1.00

## Weighting Strategies

## Terrestrial Observations

**Default Scalar Applied to All Observations**

**Scalar** : 1.00

Back to top

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# Adjusted Coordinates

## Adjustment performed in WGS-84

**Number of Points** : 237
**Number of Constrained Points** : 2
**Elevation Only** : 2

## Adjusted Grid Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Northing | N error | Easting | E error | Elevation | e error | Fix |
|---|---|---|---|---|---|---|---|
| 9252 | N/A | N/A | N/A | N/A | 6.728sft | 0.000sft | e |
| 1 | N/A | N/A | N/A | N/A | 7.228sft | 0.010sft | |
| 2 | N/A | N/A | N/A | N/A | 7.006sft | 0.014sft | |
| 3 | N/A | N/A | N/A | N/A | 6.852sft | 0.017sft | |
| 4 | N/A | N/A | N/A | N/A | 7.125sft | 0.019sft | |
| 5 | N/A | N/A | N/A | N/A | 7.252sft | 0.021sft | |
| 6 | N/A | N/A | N/A | N/A | 7.368sft | 0.023sft | |
| 7 | N/A | N/A | N/A | N/A | 7.456sft | 0.025sft | |
| 8 | N/A | N/A | N/A | N/A | 7.268sft | 0.027sft | |
| 9 | N/A | N/A | N/A | N/A | 7.463sft | 0.029sft | |
| 10 | N/A | N/A | N/A | N/A | 7.852sft | 0.030sft | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | N/A | N/A | N/A | N/A | 8.201sft | 0.031sft | |
| 12 | N/A | N/A | N/A | N/A | 8.497sft | 0.033sft | |
| 13 | N/A | N/A | N/A | N/A | 7.899sft | 0.034sft | |
| 14 | N/A | N/A | N/A | N/A | 7.959sft | 0.035sft | |
| 15 | N/A | N/A | N/A | N/A | 7.896sft | 0.036sft | |
| 16 | N/A | N/A | N/A | N/A | 8.020sft | 0.037sft | |
| 17 | N/A | N/A | N/A | N/A | 7.743sft | 0.039sft | |
| 18 | N/A | N/A | N/A | N/A | 8.089sft | 0.040sft | |
| 19 | N/A | N/A | N/A | N/A | 7.793sft | 0.041sft | |
| 20 | N/A | N/A | N/A | N/A | 7.865sft | 0.041sft | |
| 21 | N/A | N/A | N/A | N/A | 8.049sft | 0.042sft | |
| 22 | N/A | N/A | N/A | N/A | 8.251sft | 0.043sft | |
| 23 | N/A | N/A | N/A | N/A | 8.552sft | 0.044sft | |
| 24 | N/A | N/A | N/A | N/A | 8.202sft | 0.045sft | |
| 25 | N/A | N/A | N/A | N/A | 8.361sft | 0.046sft | |
| 26 | N/A | N/A | N/A | N/A | 8.686sft | 0.047sft | |
| 27 | N/A | N/A | N/A | N/A | 8.240sft | 0.047sft | |
| 28 | N/A | N/A | N/A | N/A | 8.004sft | 0.048sft | |
| 29 | N/A | N/A | N/A | N/A | 7.864sft | 0.049sft | |
| 30 | N/A | N/A | N/A | N/A | 7.894sft | 0.050sft | |
| 31 | N/A | N/A | N/A | N/A | 7.810sft | 0.050sft | |
| 32 | N/A | N/A | N/A | N/A | 7.829sft | 0.051sft | |
| 33 | N/A | N/A | N/A | N/A | 7.618sft | 0.052sft | |
| 34 | N/A | N/A | N/A | N/A | 7.902sft | 0.052sft | |
| 35 | N/A | N/A | N/A | N/A | 8.109sft | 0.053sft | |
| 36 | N/A | N/A | N/A | N/A | 8.390sft | 0.054sft | |
| 37 | N/A | N/A | N/A | N/A | 7.923sft | 0.054sft | |
| 38 | N/A | N/A | N/A | N/A | 7.836sft | 0.055sft | |
| 39 | N/A | N/A | N/A | N/A | 9.315sft | 0.055sft | |
| 40 | N/A | N/A | N/A | N/A | 9.108sft | 0.056sft | |
| 41 | N/A | N/A | N/A | N/A | 9.484sft | 0.056sft | |
| 42 | N/A | N/A | N/A | N/A | 8.790sft | 0.057sft | |
| 43 | N/A | N/A | N/A | N/A | 8.985sft | 0.058sft | |
| 44 | N/A | N/A | N/A | N/A | 9.001sft | 0.058sft | |
| SGT2W6 | N/A | N/A | N/A | N/A | 8.678sft | 0.059sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 46 | N/A | N/A | N/A | N/A | 8.981sft | 0.059sft | |
| 47 | N/A | N/A | N/A | N/A | 8.566sft | 0.060sft | |
| 48 | N/A | N/A | N/A | N/A | 9.015sft | 0.060sft | |
| 49 | N/A | N/A | N/A | N/A | 9.307sft | 0.060sft | |
| 50 | N/A | N/A | N/A | N/A | 9.054sft | 0.061sft | |
| 51 | N/A | N/A | N/A | N/A | 8.908sft | 0.061sft | |
| 52 | N/A | N/A | N/A | N/A | 8.001sft | 0.062sft | |
| 53 | N/A | N/A | N/A | N/A | 7.794sft | 0.062sft | |
| 54 | N/A | N/A | N/A | N/A | 8.299sft | 0.063sft | |
| 55 | N/A | N/A | N/A | N/A | 7.990sft | 0.063sft | |
| 56 | N/A | N/A | N/A | N/A | 7.811sft | 0.063sft | |
| 57 | N/A | N/A | N/A | N/A | 7.609sft | 0.064sft | |
| 58 | N/A | N/A | N/A | N/A | 7.934sft | 0.064sft | |
| 59 | N/A | N/A | N/A | N/A | 7.813sft | 0.065sft | |
| 60 | N/A | N/A | N/A | N/A | 7.894sft | 0.065sft | |
| 61 | N/A | N/A | N/A | N/A | 8.163sft | 0.065sft | |
| 62 | N/A | N/A | N/A | N/A | 8.351sft | 0.066sft | |
| 63 | N/A | N/A | N/A | N/A | 8.323sft | 0.066sft | |
| 64 | N/A | N/A | N/A | N/A | 8.174sft | 0.066sft | |
| 65 | N/A | N/A | N/A | N/A | 8.726sft | 0.067sft | |
| 66 | N/A | N/A | N/A | N/A | 8.971sft | 0.067sft | |
| 67 | N/A | N/A | N/A | N/A | 8.935sft | 0.067sft | |
| 68 | N/A | N/A | N/A | N/A | 8.673sft | 0.067sft | |
| 69 | N/A | N/A | N/A | N/A | 8.644sft | 0.068sft | |
| 70 | N/A | N/A | N/A | N/A | 8.753sft | 0.068sft | |
| 71 | N/A | N/A | N/A | N/A | 8.906sft | 0.068sft | |
| 72 | N/A | N/A | N/A | N/A | 8.998sft | 0.069sft | |
| 73 | N/A | N/A | N/A | N/A | 9.649sft | 0.069sft | |
| 74 | N/A | N/A | N/A | N/A | 9.497sft | 0.069sft | |
| 75 | N/A | N/A | N/A | N/A | 9.618sft | 0.069sft | |
| SGT2W5 | N/A | N/A | N/A | N/A | 9.444sft | 0.070sft | |
| 77 | N/A | N/A | N/A | N/A | 9.472sft | 0.070sft | |
| 78 | N/A | N/A | N/A | N/A | 9.313sft | 0.070sft | |
| 79 | N/A | N/A | N/A | N/A | 9.513sft | 0.070sft | |
| 80 | N/A | N/A | N/A | N/A | 9.545sft | 0.071sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 81 | N/A | N/A | N/A | N/A | 8.879sft | 0.071sft | |
| 82 | N/A | N/A | N/A | N/A | 8.856sft | 0.071sft | |
| 83 | N/A | N/A | N/A | N/A | 8.947sft | 0.071sft | |
| 84 | N/A | N/A | N/A | N/A | 9.337sft | 0.071sft | |
| A9253 | N/A | N/A | N/A | N/A | 9.307sft | 0.072sft | |
| 86 | N/A | N/A | N/A | N/A | 10.092sft | 0.072sft | |
| 87 | N/A | N/A | N/A | N/A | 10.630sft | 0.072sft | |
| 88 | N/A | N/A | N/A | N/A | 10.516sft | 0.072sft | |
| 89 | N/A | N/A | N/A | N/A | 10.546sft | 0.072sft | |
| 90 | N/A | N/A | N/A | N/A | 10.564sft | 0.072sft | |
| 91 | N/A | N/A | N/A | N/A | 11.123sft | 0.073sft | |
| 92 | N/A | N/A | N/A | N/A | 10.895sft | 0.073sft | |
| 93 | N/A | N/A | N/A | N/A | 10.381sft | 0.073sft | |
| 94 | N/A | N/A | N/A | N/A | 10.250sft | 0.073sft | |
| 95 | N/A | N/A | N/A | N/A | 10.548sft | 0.073sft | |
| 96 | N/A | N/A | N/A | N/A | 10.679sft | 0.073sft | |
| 97 | N/A | N/A | N/A | N/A | 10.470sft | 0.073sft | |
| 98 | N/A | N/A | N/A | N/A | 10.130sft | 0.073sft | |
| 99 | N/A | N/A | N/A | N/A | 10.352sft | 0.074sft | |
| 100 | N/A | N/A | N/A | N/A | 10.955sft | 0.074sft | |
| 101 | N/A | N/A | N/A | N/A | 11.225sft | 0.074sft | |
| 102 | N/A | N/A | N/A | N/A | 11.007sft | 0.074sft | |
| 103 | N/A | N/A | N/A | N/A | 11.128sft | 0.074sft | |
| 104 | N/A | N/A | N/A | N/A | 11.480sft | 0.074sft | |
| 105 | N/A | N/A | N/A | N/A | 11.367sft | 0.074sft | |
| 106 | N/A | N/A | N/A | N/A | 10.922sft | 0.074sft | |
| 107 | N/A | N/A | N/A | N/A | 10.875sft | 0.074sft | |
| 108 | N/A | N/A | N/A | N/A | 11.008sft | 0.074sft | |
| 109 | N/A | N/A | N/A | N/A | 10.692sft | 0.074sft | |
| 110 | N/A | N/A | N/A | N/A | 10.952sft | 0.074sft | |
| 111 | N/A | N/A | N/A | N/A | 10.722sft | 0.074sft | |
| 112 | N/A | N/A | N/A | N/A | 10.880sft | 0.074sft | |
| 113 | N/A | N/A | N/A | N/A | 11.418sft | 0.074sft | |
| SGT1W5 | N/A | N/A | N/A | N/A | 10.916sft | 0.074sft | |
| 115 | N/A | N/A | N/A | N/A | 10.963sft | 0.074sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 116 | N/A | N/A | N/A | N/A | 11.037sft | 0.074sft | |
| 117 | N/A | N/A | N/A | N/A | 11.015sft | 0.074sft | |
| 118 | N/A | N/A | N/A | N/A | 10.739sft | 0.074sft | |
| 119 | N/A | N/A | N/A | N/A | 11.024sft | 0.074sft | |
| 120 | N/A | N/A | N/A | N/A | 11.231sft | 0.074sft | |
| 121 | N/A | N/A | N/A | N/A | 11.095sft | 0.074sft | |
| 122 | N/A | N/A | N/A | N/A | 10.338sft | 0.074sft | |
| 123 | N/A | N/A | N/A | N/A | 11.635sft | 0.074sft | |
| 124 | N/A | N/A | N/A | N/A | 11.781sft | 0.074sft | |
| 125 | N/A | N/A | N/A | N/A | 10.855sft | 0.074sft | |
| 126 | N/A | N/A | N/A | N/A | 10.800sft | 0.074sft | |
| 127 | N/A | N/A | N/A | N/A | 11.236sft | 0.074sft | |
| 128 | N/A | N/A | N/A | N/A | 10.985sft | 0.074sft | |
| 129 | N/A | N/A | N/A | N/A | 10.298sft | 0.074sft | |
| 130 | N/A | N/A | N/A | N/A | 10.262sft | 0.074sft | |
| 131 | N/A | N/A | N/A | N/A | 10.637sft | 0.074sft | |
| 132 | N/A | N/A | N/A | N/A | 10.839sft | 0.074sft | |
| 133 | N/A | N/A | N/A | N/A | 10.798sft | 0.074sft | |
| 134 | N/A | N/A | N/A | N/A | 10.374sft | 0.074sft | |
| 135 | N/A | N/A | N/A | N/A | 10.457sft | 0.074sft | |
| 136 | N/A | N/A | N/A | N/A | 10.973sft | 0.074sft | |
| 137 | N/A | N/A | N/A | N/A | 11.272sft | 0.074sft | |
| 138 | N/A | N/A | N/A | N/A | 10.670sft | 0.073sft | |
| 139 | N/A | N/A | N/A | N/A | 10.674sft | 0.073sft | |
| 140 | N/A | N/A | N/A | N/A | 10.643sft | 0.073sft | |
| 141 | N/A | N/A | N/A | N/A | 10.777sft | 0.073sft | |
| 142 | N/A | N/A | N/A | N/A | 10.099sft | 0.073sft | |
| B9253 | N/A | N/A | N/A | N/A | 9.319sft | 0.073sft | |
| 144 | N/A | N/A | N/A | N/A | 9.281sft | 0.073sft | |
| 145 | N/A | N/A | N/A | N/A | 9.162sft | 0.073sft | |
| 146 | N/A | N/A | N/A | N/A | 9.170sft | 0.072sft | |
| 147 | N/A | N/A | N/A | N/A | 8.822sft | 0.072sft | |
| 148 | N/A | N/A | N/A | N/A | 8.962sft | 0.072sft | |
| 149 | N/A | N/A | N/A | N/A | 9.621sft | 0.072sft | |
| 150 | N/A | N/A | N/A | N/A | 9.413sft | 0.072sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 151 | N/A | N/A | N/A | N/A | 9.225sft | 0.072sft | |
| 152 | N/A | N/A | N/A | N/A | 9.875sft | 0.071sft | |
| 153 | N/A | N/A | N/A | N/A | 10.243sft | 0.071sft | |
| 154 | N/A | N/A | N/A | N/A | 10.668sft | 0.071sft | |
| 155 | N/A | N/A | N/A | N/A | 10.114sft | 0.071sft | |
| 156 | N/A | N/A | N/A | N/A | 10.288sft | 0.071sft | |
| 157 | N/A | N/A | N/A | N/A | 10.336sft | 0.070sft | |
| 158 | N/A | N/A | N/A | N/A | 9.850sft | 0.070sft | |
| 159 | N/A | N/A | N/A | N/A | 9.728sft | 0.070sft | |
| 160 | N/A | N/A | N/A | N/A | 9.531sft | 0.070sft | |
| SGT2W4 | N/A | N/A | N/A | N/A | 9.762sft | 0.069sft | |
| 162 | N/A | N/A | N/A | N/A | 9.487sft | 0.069sft | |
| 163 | N/A | N/A | N/A | N/A | 9.678sft | 0.069sft | |
| 164 | N/A | N/A | N/A | N/A | 9.622sft | 0.069sft | |
| 165 | N/A | N/A | N/A | N/A | 9.591sft | 0.068sft | |
| 166 | N/A | N/A | N/A | N/A | 9.892sft | 0.068sft | |
| 167 | N/A | N/A | N/A | N/A | 9.940sft | 0.068sft | |
| 168 | N/A | N/A | N/A | N/A | 9.826sft | 0.067sft | |
| 169 | N/A | N/A | N/A | N/A | 9.933sft | 0.067sft | |
| 170 | N/A | N/A | N/A | N/A | 10.014sft | 0.067sft | |
| 171 | N/A | N/A | N/A | N/A | 10.589sft | 0.067sft | |
| 172 | N/A | N/A | N/A | N/A | 10.786sft | 0.066sft | |
| 173 | N/A | N/A | N/A | N/A | 10.254sft | 0.066sft | |
| 174 | N/A | N/A | N/A | N/A | 10.210sft | 0.066sft | |
| 175 | N/A | N/A | N/A | N/A | 9.770sft | 0.065sft | |
| 176 | N/A | N/A | N/A | N/A | 10.330sft | 0.065sft | |
| 177 | N/A | N/A | N/A | N/A | 10.192sft | 0.065sft | |
| 178 | N/A | N/A | N/A | N/A | 9.627sft | 0.064sft | |
| 179 | N/A | N/A | N/A | N/A | 9.793sft | 0.064sft | |
| 180 | N/A | N/A | N/A | N/A | 10.230sft | 0.063sft | |
| 181 | N/A | N/A | N/A | N/A | 9.977sft | 0.063sft | |
| 182 | N/A | N/A | N/A | N/A | 9.829sft | 0.063sft | |
| 183 | N/A | N/A | N/A | N/A | 10.351sft | 0.062sft | |
| 184 | N/A | N/A | N/A | N/A | 10.947sft | 0.062sft | |
| 185 | N/A | N/A | N/A | N/A | 11.001sft | 0.061sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 186 | N/A | N/A | N/A | N/A | 10.586sft | 0.061sft | |
| 187 | N/A | N/A | N/A | N/A | 10.541sft | 0.060sft | |
| 188 | N/A | N/A | N/A | N/A | 10.517sft | 0.060sft | |
| 189 | N/A | N/A | N/A | N/A | 11.169sft | 0.060sft | |
| 190 | N/A | N/A | N/A | N/A | 11.086sft | 0.059sft | |
| 191 | N/A | N/A | N/A | N/A | 11.227sft | 0.059sft | |
| 192 | N/A | N/A | N/A | N/A | 11.039sft | 0.058sft | |
| 193 | N/A | N/A | N/A | N/A | 10.623sft | 0.058sft | |
| 194 | N/A | N/A | N/A | N/A | 10.747sft | 0.057sft | |
| 195 | N/A | N/A | N/A | N/A | 10.449sft | 0.056sft | |
| 196 | N/A | N/A | N/A | N/A | 10.404sft | 0.056sft | |
| 197 | N/A | N/A | N/A | N/A | 11.264sft | 0.055sft | |
| 198 | N/A | N/A | N/A | N/A | 11.082sft | 0.055sft | |
| 199 | N/A | N/A | N/A | N/A | 10.848sft | 0.054sft | |
| 200 | N/A | N/A | N/A | N/A | 10.953sft | 0.054sft | |
| 201 | N/A | N/A | N/A | N/A | 11.463sft | 0.053sft | |
| 202 | N/A | N/A | N/A | N/A | 11.115sft | 0.052sft | |
| 203 | N/A | N/A | N/A | N/A | 11.374sft | 0.052sft | |
| 204 | N/A | N/A | N/A | N/A | 10.928sft | 0.051sft | |
| 205 | N/A | N/A | N/A | N/A | 10.915sft | 0.050sft | |
| 206 | N/A | N/A | N/A | N/A | 11.097sft | 0.050sft | |
| 207 | N/A | N/A | N/A | N/A | 10.570sft | 0.049sft | |
| 208 | N/A | N/A | N/A | N/A | 9.807sft | 0.048sft | |
| SGT1W4 | N/A | N/A | N/A | N/A | 10.169sft | 0.047sft | |
| 210 | N/A | N/A | N/A | N/A | 10.976sft | 0.047sft | |
| 211 | N/A | N/A | N/A | N/A | 10.837sft | 0.046sft | |
| 212 | N/A | N/A | N/A | N/A | 10.888sft | 0.045sft | |
| 213 | N/A | N/A | N/A | N/A | 11.249sft | 0.044sft | |
| 214 | N/A | N/A | N/A | N/A | 11.497sft | 0.043sft | |
| 215 | N/A | N/A | N/A | N/A | 11.283sft | 0.042sft | |
| 216 | N/A | N/A | N/A | N/A | 10.649sft | 0.041sft | |
| 217 | N/A | N/A | N/A | N/A | 10.795sft | 0.041sft | |
| COLL0018 | N/A | N/A | N/A | N/A | 10.734sft | 0.040sft | |
| 219 | N/A | N/A | N/A | N/A | 10.358sft | 0.039sft | |
| 220 | N/A | N/A | N/A | N/A | 10.331sft | 0.037sft | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 221 | N/A | N/A | N/A | N/A | 10.648sft | 0.036sft | |
| 222 | N/A | N/A | N/A | N/A | 10.692sft | 0.035sft | |
| 223 | N/A | N/A | N/A | N/A | 9.960sft | 0.034sft | |
| 224 | N/A | N/A | N/A | N/A | 9.601sft | 0.033sft | |
| 225 | N/A | N/A | N/A | N/A | 9.739sft | 0.031sft | |
| 226 | N/A | N/A | N/A | N/A | 10.049sft | 0.030sft | |
| 227 | N/A | N/A | N/A | N/A | 10.225sft | 0.029sft | |
| 228 | N/A | N/A | N/A | N/A | 10.383sft | 0.027sft | |
| 229 | N/A | N/A | N/A | N/A | 10.470sft | 0.025sft | |
| 230 | N/A | N/A | N/A | N/A | 10.293sft | 0.023sft | |
| 231 | N/A | N/A | N/A | N/A | 10.382sft | 0.021sft | |
| 232 | N/A | N/A | N/A | N/A | 10.256sft | 0.019sft | |
| 233 | N/A | N/A | N/A | N/A | 10.606sft | 0.017sft | |
| 234 | N/A | N/A | N/A | N/A | 10.900sft | 0.014sft | |
| 235 | N/A | N/A | N/A | N/A | 10.942sft | 0.010sft | |
| J598 | N/A | N/A | N/A | N/A | 9.234sft | 0.000sft | e |

## Adjusted Geodetic Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Latitude | N error | Longitude | E error | Height | h error | Fix |
|---|---|---|---|---|---|---|---|
| 9252 | N/A | N/A | N/A | N/A | N/A | N/A | e |
| 1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 2 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 6 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 7 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 11 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 12 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 13 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 14 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 15 | N/A | N/A | N/A | N/A | N/A | N/A | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 16 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 17 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 18 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 19 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 20 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 21 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 22 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 23 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 24 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 25 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 26 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 27 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 28 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 29 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 30 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 31 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 32 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 33 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 34 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 35 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 36 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 37 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 38 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 39 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 40 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 41 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 42 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 43 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 44 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT2W6 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 46 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 47 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 48 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 49 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 50 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 51 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 52 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 53 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 54 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 55 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 56 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 57 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 58 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 59 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 60 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 61 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 62 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 63 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 64 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 65 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 66 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 67 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 68 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 69 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 70 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 71 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 72 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 73 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 74 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 75 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT2W5 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 77 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 78 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 79 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 80 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 81 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 82 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 83 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 84 | N/A | N/A | N/A | N/A | N/A | N/A | |
| A9253 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 86 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 87 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 88 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 89 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 90 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 91 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 92 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 93 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 94 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 95 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 96 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 97 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 98 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 99 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 100 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 101 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 102 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 103 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 104 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 105 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 106 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 107 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 108 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 109 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 110 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 111 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 112 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 113 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT1W5 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 115 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 116 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 117 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 118 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 119 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 120 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 121 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 122 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 123 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 124 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 125 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 126 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 127 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 128 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 129 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 130 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 131 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 132 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 133 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 134 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 135 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 136 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 137 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 138 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 139 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 140 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 141 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 142 | N/A | N/A | N/A | N/A | N/A | N/A | |
| B9253 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 144 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 145 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 146 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 147 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 148 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 149 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 150 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 151 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 152 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 153 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 154 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 155 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 156 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 157 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 158 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 159 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 160 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT2W4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 162 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 163 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 164 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 165 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 166 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 167 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 168 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 169 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 170 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 171 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 172 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 173 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 174 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 175 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 176 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 177 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 178 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 179 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 180 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 181 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 182 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 183 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 184 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 185 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 186 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 187 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 188 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 189 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 190 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 191 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 192 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 193 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 194 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 195 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 196 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 197 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 198 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 199 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 200 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 201 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 202 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 203 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 204 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 205 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 206 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 207 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 208 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT1W4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 210 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 211 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 212 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 213 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 214 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 215 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 216 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 217 | N/A | N/A | N/A | N/A | N/A | N/A | |
| COLL0018 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 219 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 220 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 221 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 222 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 223 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 224 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 225 | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 226 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 227 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 228 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 229 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 230 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 231 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 232 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 233 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 234 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 235 | N/A | N/A | N/A | N/A | N/A | N/A | |
| J598 | N/A | N/A | N/A | N/A | N/A | N/A | e |

## Coordinate Deltas

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight | ΔGeoid Separation |
|---|---|---|---|---|---|
| 9252 | N/A | N/A | 0.000sft | N/A | N/A |
| 1 | N/A | N/A | 0.000sft | N/A | N/A |
| 2 | N/A | N/A | 0.001sft | N/A | N/A |
| 3 | N/A | N/A | 0.001sft | N/A | N/A |
| 4 | N/A | N/A | 0.001sft | N/A | N/A |
| 5 | N/A | N/A | 0.002sft | N/A | N/A |
| 6 | N/A | N/A | 0.002sft | N/A | N/A |
| 7 | N/A | N/A | 0.002sft | N/A | N/A |
| 8 | N/A | N/A | 0.003sft | N/A | N/A |
| 9 | N/A | N/A | 0.003sft | N/A | N/A |
| 10 | N/A | N/A | 0.003sft | N/A | N/A |
| 11 | N/A | N/A | 0.004sft | N/A | N/A |
| 12 | N/A | N/A | 0.004sft | N/A | N/A |
| 13 | N/A | N/A | 0.004sft | N/A | N/A |
| 14 | N/A | N/A | 0.005sft | N/A | N/A |
| 15 | N/A | N/A | 0.005sft | N/A | N/A |
| 16 | N/A | N/A | 0.005sft | N/A | N/A |
| 17 | N/A | N/A | 0.005sft | N/A | N/A |
| 18 | N/A | N/A | 0.006sft | N/A | N/A |
| 19 | N/A | N/A | 0.006sft | N/A | N/A |
| 20 | N/A | N/A | 0.006sft | N/A | N/A |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 21 | N/A | N/A | 0.007sft | N/A | N/A |
| 22 | N/A | N/A | 0.007sft | N/A | N/A |
| 23 | N/A | N/A | 0.007sft | N/A | N/A |
| 24 | N/A | N/A | 0.008sft | N/A | N/A |
| 25 | N/A | N/A | 0.008sft | N/A | N/A |
| 26 | N/A | N/A | 0.008sft | N/A | N/A |
| 27 | N/A | N/A | 0.009sft | N/A | N/A |
| 28 | N/A | N/A | 0.009sft | N/A | N/A |
| 29 | N/A | N/A | 0.009sft | N/A | N/A |
| 30 | N/A | N/A | 0.010sft | N/A | N/A |
| 31 | N/A | N/A | 0.010sft | N/A | N/A |
| 32 | N/A | N/A | 0.010sft | N/A | N/A |
| 33 | N/A | N/A | 0.011sft | N/A | N/A |
| 34 | N/A | N/A | 0.011sft | N/A | N/A |
| 35 | N/A | N/A | 0.011sft | N/A | N/A |
| 36 | N/A | N/A | 0.012sft | N/A | N/A |
| 37 | N/A | N/A | 0.012sft | N/A | N/A |
| 38 | N/A | N/A | 0.012sft | N/A | N/A |
| 39 | N/A | N/A | 0.013sft | N/A | N/A |
| 40 | N/A | N/A | 0.013sft | N/A | N/A |
| 41 | N/A | N/A | 0.013sft | N/A | N/A |
| 42 | N/A | N/A | 0.014sft | N/A | N/A |
| 43 | N/A | N/A | 0.014sft | N/A | N/A |
| 44 | N/A | N/A | 0.014sft | N/A | N/A |
| SGT2W6 | N/A | N/A | 0.014sft | N/A | N/A |
| 46 | N/A | N/A | 0.015sft | N/A | N/A |
| 47 | N/A | N/A | 0.015sft | N/A | N/A |
| 48 | N/A | N/A | 0.015sft | N/A | N/A |
| 49 | N/A | N/A | 0.016sft | N/A | N/A |
| 50 | N/A | N/A | 0.016sft | N/A | N/A |
| 51 | N/A | N/A | 0.016sft | N/A | N/A |
| 52 | N/A | N/A | 0.017sft | N/A | N/A |
| 53 | N/A | N/A | 0.017sft | N/A | N/A |
| 54 | N/A | N/A | 0.017sft | N/A | N/A |
| 55 | N/A | N/A | 0.018sft | N/A | N/A |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 56 | N/A | N/A | 0.018sft | N/A | N/A |
| 57 | N/A | N/A | 0.018sft | N/A | N/A |
| 58 | N/A | N/A | 0.019sft | N/A | N/A |
| 59 | N/A | N/A | 0.019sft | N/A | N/A |
| 60 | N/A | N/A | 0.019sft | N/A | N/A |
| 61 | N/A | N/A | 0.020sft | N/A | N/A |
| 62 | N/A | N/A | 0.020sft | N/A | N/A |
| 63 | N/A | N/A | 0.020sft | N/A | N/A |
| 64 | N/A | N/A | 0.021sft | N/A | N/A |
| 65 | N/A | N/A | 0.021sft | N/A | N/A |
| 66 | N/A | N/A | 0.021sft | N/A | N/A |
| 67 | N/A | N/A | 0.022sft | N/A | N/A |
| 68 | N/A | N/A | 0.022sft | N/A | N/A |
| 69 | N/A | N/A | 0.022sft | N/A | N/A |
| 70 | N/A | N/A | 0.023sft | N/A | N/A |
| 71 | N/A | N/A | 0.023sft | N/A | N/A |
| 72 | N/A | N/A | 0.023sft | N/A | N/A |
| 73 | N/A | N/A | 0.024sft | N/A | N/A |
| 74 | N/A | N/A | 0.024sft | N/A | N/A |
| 75 | N/A | N/A | 0.024sft | N/A | N/A |
| SGT2W5 | N/A | N/A | 0.024sft | N/A | N/A |
| 77 | N/A | N/A | 0.025sft | N/A | N/A |
| 78 | N/A | N/A | 0.025sft | N/A | N/A |
| 79 | N/A | N/A | 0.025sft | N/A | N/A |
| 80 | N/A | N/A | 0.026sft | N/A | N/A |
| 81 | N/A | N/A | 0.026sft | N/A | N/A |
| 82 | N/A | N/A | 0.026sft | N/A | N/A |
| 83 | N/A | N/A | 0.027sft | N/A | N/A |
| 84 | N/A | N/A | 0.027sft | N/A | N/A |
| A9253 | N/A | N/A | 0.027sft | N/A | N/A |
| 86 | N/A | N/A | 0.028sft | N/A | N/A |
| 87 | N/A | N/A | 0.028sft | N/A | N/A |
| 88 | N/A | N/A | 0.028sft | N/A | N/A |
| 89 | N/A | N/A | 0.029sft | N/A | N/A |
| 90 | N/A | N/A | 0.029sft | N/A | N/A |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 91 | N/A | N/A | 0.029sft | N/A | N/A |
| 92 | N/A | N/A | 0.030sft | N/A | N/A |
| 93 | N/A | N/A | 0.030sft | N/A | N/A |
| 94 | N/A | N/A | 0.030sft | N/A | N/A |
| 95 | N/A | N/A | 0.031sft | N/A | N/A |
| 96 | N/A | N/A | 0.031sft | N/A | N/A |
| 97 | N/A | N/A | 0.031sft | N/A | N/A |
| 98 | N/A | N/A | 0.032sft | N/A | N/A |
| 99 | N/A | N/A | 0.032sft | N/A | N/A |
| 100 | N/A | N/A | 0.032sft | N/A | N/A |
| 101 | N/A | N/A | 0.033sft | N/A | N/A |
| 102 | N/A | N/A | 0.033sft | N/A | N/A |
| 103 | N/A | N/A | 0.033sft | N/A | N/A |
| 104 | N/A | N/A | 0.034sft | N/A | N/A |
| 105 | N/A | N/A | 0.034sft | N/A | N/A |
| 106 | N/A | N/A | 0.034sft | N/A | N/A |
| 107 | N/A | N/A | 0.034sft | N/A | N/A |
| 108 | N/A | N/A | 0.035sft | N/A | N/A |
| 109 | N/A | N/A | 0.035sft | N/A | N/A |
| 110 | N/A | N/A | 0.035sft | N/A | N/A |
| 111 | N/A | N/A | 0.036sft | N/A | N/A |
| 112 | N/A | N/A | 0.036sft | N/A | N/A |
| 113 | N/A | N/A | 0.036sft | N/A | N/A |
| SGT1W5 | N/A | N/A | 0.037sft | N/A | N/A |
| 115 | N/A | N/A | 0.037sft | N/A | N/A |
| 116 | N/A | N/A | 0.037sft | N/A | N/A |
| 117 | N/A | N/A | 0.038sft | N/A | N/A |
| 118 | N/A | N/A | 0.038sft | N/A | N/A |
| 119 | N/A | N/A | 0.038sft | N/A | N/A |
| 120 | N/A | N/A | 0.039sft | N/A | N/A |
| 121 | N/A | N/A | 0.039sft | N/A | N/A |
| 122 | N/A | N/A | 0.039sft | N/A | N/A |
| 123 | N/A | N/A | 0.040sft | N/A | N/A |
| 124 | N/A | N/A | 0.040sft | N/A | N/A |
| 125 | N/A | N/A | 0.040sft | N/A | N/A |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 126 | N/A | N/A | 0.041sft | N/A | N/A |
| 127 | N/A | N/A | 0.041sft | N/A | N/A |
| 128 | N/A | N/A | 0.041sft | N/A | N/A |
| 129 | N/A | N/A | 0.042sft | N/A | N/A |
| 130 | N/A | N/A | 0.042sft | N/A | N/A |
| 131 | N/A | N/A | 0.042sft | N/A | N/A |
| 132 | N/A | N/A | 0.043sft | N/A | N/A |
| 133 | N/A | N/A | 0.043sft | N/A | N/A |
| 134 | N/A | N/A | 0.043sft | N/A | N/A |
| 135 | N/A | N/A | 0.043sft | N/A | N/A |
| 136 | N/A | N/A | 0.044sft | N/A | N/A |
| 137 | N/A | N/A | 0.044sft | N/A | N/A |
| 138 | N/A | N/A | 0.044sft | N/A | N/A |
| 139 | N/A | N/A | 0.045sft | N/A | N/A |
| 140 | N/A | N/A | 0.045sft | N/A | N/A |
| 141 | N/A | N/A | 0.045sft | N/A | N/A |
| 142 | N/A | N/A | 0.046sft | N/A | N/A |
| B9253 | N/A | N/A | 0.046sft | N/A | N/A |
| 144 | N/A | N/A | 0.046sft | N/A | N/A |
| 145 | N/A | N/A | 0.047sft | N/A | N/A |
| 146 | N/A | N/A | 0.047sft | N/A | N/A |
| 147 | N/A | N/A | 0.047sft | N/A | N/A |
| 148 | N/A | N/A | 0.048sft | N/A | N/A |
| 149 | N/A | N/A | 0.048sft | N/A | N/A |
| 150 | N/A | N/A | 0.048sft | N/A | N/A |
| 151 | N/A | N/A | 0.049sft | N/A | N/A |
| 152 | N/A | N/A | 0.049sft | N/A | N/A |
| 153 | N/A | N/A | 0.049sft | N/A | N/A |
| 154 | N/A | N/A | 0.050sft | N/A | N/A |
| 155 | N/A | N/A | 0.050sft | N/A | N/A |
| 156 | N/A | N/A | 0.050sft | N/A | N/A |
| 157 | N/A | N/A | 0.051sft | N/A | N/A |
| 158 | N/A | N/A | 0.051sft | N/A | N/A |
| 159 | N/A | N/A | 0.051sft | N/A | N/A |
| 160 | N/A | N/A | 0.052sft | N/A | N/A |
| | | | | | |

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|---|---|---|---|---|---|
| SGT2W4 | N/A | N/A | 0.052sft | N/A | N/A |
| 162 | N/A | N/A | 0.052sft | N/A | N/A |
| 163 | N/A | N/A | 0.053sft | N/A | N/A |
| 164 | N/A | N/A | 0.053sft | N/A | N/A |
| 165 | N/A | N/A | 0.053sft | N/A | N/A |
| 166 | N/A | N/A | 0.053sft | N/A | N/A |
| 167 | N/A | N/A | 0.054sft | N/A | N/A |
| 168 | N/A | N/A | 0.054sft | N/A | N/A |
| 169 | N/A | N/A | 0.054sft | N/A | N/A |
| 170 | N/A | N/A | 0.055sft | N/A | N/A |
| 171 | N/A | N/A | 0.055sft | N/A | N/A |
| 172 | N/A | N/A | 0.055sft | N/A | N/A |
| 173 | N/A | N/A | 0.056sft | N/A | N/A |
| 174 | N/A | N/A | 0.056sft | N/A | N/A |
| 175 | N/A | N/A | 0.056sft | N/A | N/A |
| 176 | N/A | N/A | 0.057sft | N/A | N/A |
| 177 | N/A | N/A | 0.057sft | N/A | N/A |
| 178 | N/A | N/A | 0.057sft | N/A | N/A |
| 179 | N/A | N/A | 0.058sft | N/A | N/A |
| 180 | N/A | N/A | 0.058sft | N/A | N/A |
| 181 | N/A | N/A | 0.058sft | N/A | N/A |
| 182 | N/A | N/A | 0.059sft | N/A | N/A |
| 183 | N/A | N/A | 0.059sft | N/A | N/A |
| 184 | N/A | N/A | 0.059sft | N/A | N/A |
| 185 | N/A | N/A | 0.060sft | N/A | N/A |
| 186 | N/A | N/A | 0.060sft | N/A | N/A |
| 187 | N/A | N/A | 0.060sft | N/A | N/A |
| 188 | N/A | N/A | 0.061sft | N/A | N/A |
| 189 | N/A | N/A | 0.061sft | N/A | N/A |
| 190 | N/A | N/A | 0.061sft | N/A | N/A |
| 191 | N/A | N/A | 0.062sft | N/A | N/A |
| 192 | N/A | N/A | 0.062sft | N/A | N/A |
| 193 | N/A | N/A | 0.062sft | N/A | N/A |
| 194 | N/A | N/A | 0.062sft | N/A | N/A |
| 195 | N/A | N/A | 0.063sft | N/A | N/A |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 196 | N/A | N/A | 0.063sft | N/A | N/A |
| 197 | N/A | N/A | 0.063sft | N/A | N/A |
| 198 | N/A | N/A | 0.064sft | N/A | N/A |
| 199 | N/A | N/A | 0.064sft | N/A | N/A |
| 200 | N/A | N/A | 0.064sft | N/A | N/A |
| 201 | N/A | N/A | 0.065sft | N/A | N/A |
| 202 | N/A | N/A | 0.065sft | N/A | N/A |
| 203 | N/A | N/A | 0.065sft | N/A | N/A |
| 204 | N/A | N/A | 0.066sft | N/A | N/A |
| 205 | N/A | N/A | 0.066sft | N/A | N/A |
| 206 | N/A | N/A | 0.066sft | N/A | N/A |
| 207 | N/A | N/A | 0.067sft | N/A | N/A |
| 208 | N/A | N/A | 0.067sft | N/A | N/A |
| SGT1W4 | N/A | N/A | 0.067sft | N/A | N/A |
| 210 | N/A | N/A | 0.068sft | N/A | N/A |
| 211 | N/A | N/A | 0.068sft | N/A | N/A |
| 212 | N/A | N/A | 0.068sft | N/A | N/A |
| 213 | N/A | N/A | 0.069sft | N/A | N/A |
| 214 | N/A | N/A | 0.069sft | N/A | N/A |
| 215 | N/A | N/A | 0.069sft | N/A | N/A |
| 216 | N/A | N/A | 0.070sft | N/A | N/A |
| 217 | N/A | N/A | 0.070sft | N/A | N/A |
| COLL0018 | N/A | N/A | 0.070sft | N/A | N/A |
| 219 | N/A | N/A | 0.071sft | N/A | N/A |
| 220 | N/A | N/A | 0.071sft | N/A | N/A |
| 221 | N/A | N/A | 0.071sft | N/A | N/A |
| 222 | N/A | N/A | 0.072sft | N/A | N/A |
| 223 | N/A | N/A | 0.072sft | N/A | N/A |
| 224 | N/A | N/A | 0.072sft | N/A | N/A |
| 225 | N/A | N/A | 0.072sft | N/A | N/A |
| 226 | N/A | N/A | 0.073sft | N/A | N/A |
| 227 | N/A | N/A | 0.073sft | N/A | N/A |
| 228 | N/A | N/A | 0.073sft | N/A | N/A |
| 229 | N/A | N/A | 0.074sft | N/A | N/A |
| 230 | N/A | N/A | 0.074sft | N/A | N/A |
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|---|---|---|---|---|---|
| 231 | N/A | N/A | 0.074sft | N/A | N/A |
| 232 | N/A | N/A | 0.075sft | N/A | N/A |
| 233 | N/A | N/A | 0.075sft | N/A | N/A |
| 234 | N/A | N/A | 0.075sft | N/A | N/A |
| 235 | N/A | N/A | 0.076sft | N/A | N/A |
| J598 | N/A | N/A | 0.000sft | N/A | N/A |

Back to top

# Control Coordinate Comparisons

**Values shown are control coord minus adjusted coord.**

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight |
|---|---|---|---|---|
| 9252 | N/A | N/A | N/A | N/A |
| J598 | N/A | N/A | N/A | N/A |

Back to top

# Adjusted Observations

## Adjustment performed in WGS-84

## Terrestrial Observations

**Terrestrial Transformation Group**: <Terr. Default>

**Number of Observations** : 236
**Number of Outliers** : 236

**Observation Adjustment (Critical Tau = 0.00). Any outliers are in red.**

| Obs. ID | From | To | | Observation | A-posteriori Error (1.96σ) | Residual | Stand. Resid. |
|---|---|---|---|---|---|---|---|
| LR129 | 128 | 129 | ΔElev. | -0.688sft | 0.010sft | 0.000sft | 1.00 |
| LR54 | 53 | 54 | ΔElev. | 0.505sft | 0.010sft | 0.000sft | 1.00 |
| LR18 | 17 | 18 | ΔElev. | 0.345sft | 0.010sft | 0.000sft | 1.00 |
| LR19 | 18 | 19 | ΔElev. | -0.296sft | 0.010sft | 0.000sft | 1.00 |
| LR16 | 15 | 16 | ΔElev. | 0.124sft | 0.010sft | 0.000sft | 1.00 |
| LR26 | 25 | 26 | ΔElev. | 0.325sft | 0.010sft | 0.000sft | 1.00 |
| LR21 | 20 | 21 | ΔElev. | 0.183sft | 0.010sft | 0.000sft | 1.00 |
| LR32 | 31 | 32 | ΔElev. | 0.019sft | 0.010sft | 0.000sft | 1.00 |

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|---|---|---|---|---|---|---|---|
| LR33 | 32 | 33 | ΔElev. | -0.212sft | 0.010sft | 0.000sft | 1.00 |
| LR35 | 34 | 35 | ΔElev. | 0.207sft | 0.010sft | 0.000sft | 1.00 |
| LR36 | 35 | 36 | ΔElev. | 0.280sft | 0.010sft | 0.000sft | 1.00 |
| LR40 | 39 | 40 | ΔElev. | -0.207sft | 0.010sft | 0.000sft | 1.00 |
| LR41 | 40 | 41 | ΔElev. | 0.376sft | 0.010sft | 0.000sft | 1.00 |
| LR42 | 41 | 42 | ΔElev. | -0.695sft | 0.010sft | 0.000sft | 1.00 |
| LR43 | 42 | 43 | ΔElev. | 0.195sft | 0.010sft | 0.000sft | 1.00 |
| LR39 | 38 | 39 | ΔElev. | 1.478sft | 0.010sft | 0.000sft | 1.00 |
| LR47 | 46 | 47 | ΔElev. | -0.415sft | 0.010sft | 0.000sft | 1.00 |
| LR50 | 49 | 50 | ΔElev. | -0.253sft | 0.010sft | 0.000sft | 1.00 |
| LR51 | 50 | 51 | ΔElev. | -0.146sft | 0.010sft | 0.000sft | 1.00 |
| LR52 | 51 | 52 | ΔElev. | -0.908sft | 0.010sft | 0.000sft | 1.00 |
| LR45 | 44 | SGT2W6 | ΔElev. | -0.323sft | 0.010sft | 0.000sft | 1.00 |
| LR53 | 52 | 53 | ΔElev. | -0.207sft | 0.010sft | 0.000sft | 1.00 |
| LR59 | 58 | 59 | ΔElev. | -0.121sft | 0.010sft | 0.000sft | 1.00 |
| LR61 | 60 | 61 | ΔElev. | 0.268sft | 0.010sft | 0.000sft | 1.00 |
| LR58 | 57 | 58 | ΔElev. | 0.324sft | 0.010sft | 0.000sft | 1.00 |
| LR57 | 56 | 57 | ΔElev. | -0.202sft | 0.010sft | 0.000sft | 1.00 |
| LR60 | 59 | 60 | ΔElev. | 0.081sft | 0.010sft | 0.000sft | 1.00 |
| LR56 | 55 | 56 | ΔElev. | -0.179sft | 0.010sft | 0.000sft | 1.00 |
| LR55 | 54 | 55 | ΔElev. | -0.310sft | 0.010sft | 0.000sft | 1.00 |
| LR63 | 62 | 63 | ΔElev. | -0.028sft | 0.010sft | 0.000sft | 1.00 |
| LR64 | 63 | 64 | ΔElev. | -0.150sft | 0.010sft | 0.000sft | 1.00 |
| LR66 | 65 | 66 | ΔElev. | 0.245sft | 0.010sft | 0.000sft | 1.00 |
| LR77 | SGT2W5 | 77 | ΔElev. | 0.027sft | 0.010sft | 0.000sft | 1.00 |
| LR75 | 74 | 75 | ΔElev. | 0.121sft | 0.010sft | 0.000sft | 1.00 |
| LR83 | 82 | 83 | ΔElev. | 0.090sft | 0.010sft | 0.000sft | 1.00 |
| LR82 | 81 | 82 | ΔElev. | -0.023sft | 0.010sft | 0.000sft | 1.00 |
| LR92 | 91 | 92 | ΔElev. | -0.229sft | 0.010sft | 0.000sft | 1.00 |
| LR91 | 90 | 91 | ΔElev. | 0.559sft | 0.010sft | 0.000sft | 1.00 |
| LR90 | 89 | 90 | ΔElev. | 0.018sft | 0.010sft | 0.000sft | 1.00 |
| LR86 | A9253 | 86 | ΔElev. | 0.784sft | 0.010sft | 0.000sft | 1.00 |
| LR84 | 83 | 84 | ΔElev. | 0.390sft | 0.010sft | 0.000sft | 1.00 |
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|---|---|---|---|---|---|---|---|
| LR94 | 93 | 94 | ΔElev. | -0.131sft | 0.010sft | 0.000sft | 1.00 |
| LR93 | 92 | 93 | ΔElev. | -0.514sft | 0.010sft | 0.000sft | 1.00 |
| LR2 | 1 | 2 | ΔElev. | -0.223sft | 0.010sft | 0.000sft | 1.00 |
| LR98 | 97 | 98 | ΔElev. | -0.341sft | 0.010sft | 0.000sft | 1.00 |
| LR97 | 96 | 97 | ΔElev. | -0.209sft | 0.010sft | 0.000sft | 1.00 |
| LR107 | 106 | 107 | ΔElev. | -0.047sft | 0.010sft | 0.000sft | 1.00 |
| LR104 | 103 | 104 | ΔElev. | 0.352sft | 0.010sft | 0.000sft | 1.00 |
| LR101 | 100 | 101 | ΔElev. | 0.269sft | 0.010sft | 0.000sft | 1.00 |
| LR1 | 9252 | 1 | ΔElev. | 0.500sft | 0.010sft | 0.000sft | 1.00 |
| LR4 | 3 | 4 | ΔElev. | 0.273sft | 0.010sft | 0.000sft | 1.00 |
| LR8 | 7 | 8 | ΔElev. | -0.189sft | 0.010sft | 0.000sft | 1.00 |
| LR7 | 6 | 7 | ΔElev. | 0.088sft | 0.010sft | 0.000sft | 1.00 |
| LR9 | 8 | 9 | ΔElev. | 0.195sft | 0.010sft | 0.000sft | 1.00 |
| LR11 | 10 | 11 | ΔElev. | 0.348sft | 0.010sft | 0.000sft | 1.00 |
| LR100 | 99 | 100 | ΔElev. | 0.603sft | 0.010sft | 0.000sft | 1.00 |
| LR103 | 102 | 103 | ΔElev. | 0.121sft | 0.010sft | 0.000sft | 1.00 |
| LR108 | 107 | 108 | ΔElev. | 0.132sft | 0.010sft | 0.000sft | 1.00 |
| LR109 | 108 | 109 | ΔElev. | -0.316sft | 0.010sft | 0.000sft | 1.00 |
| LR10 | 9 | 10 | ΔElev. | 0.389sft | 0.010sft | 0.000sft | 1.00 |
| LR14 | 13 | 14 | ΔElev. | 0.060sft | 0.010sft | 0.000sft | 1.00 |
| LR12 | 11 | 12 | ΔElev. | 0.296sft | 0.010sft | 0.000sft | 1.00 |
| LR116 | 115 | 116 | ΔElev. | 0.074sft | 0.010sft | 0.000sft | 1.00 |
| LR118 | 117 | 118 | ΔElev. | -0.276sft | 0.010sft | 0.000sft | 1.00 |
| LR113 | 112 | 113 | ΔElev. | 0.538sft | 0.010sft | 0.000sft | 1.00 |
| LR105 | 104 | 105 | ΔElev. | -0.114sft | 0.010sft | 0.000sft | 1.00 |
| LR121 | 120 | 121 | ΔElev. | -0.136sft | 0.010sft | 0.000sft | 1.00 |
| LR125 | 124 | 125 | ΔElev. | -0.926sft | 0.010sft | 0.000sft | 1.00 |
| LR110 | 109 | 110 | ΔElev. | 0.260sft | 0.010sft | 0.000sft | 1.00 |
| LR114 | 113 | SGT1W5 | ΔElev. | -0.503sft | 0.010sft | 0.000sft | 1.00 |
| LR115 | SGT1W5 | 115 | ΔElev. | 0.047sft | 0.010sft | 0.000sft | 1.00 |
| LR112 | 111 | 112 | ΔElev. | 0.158sft | 0.010sft | 0.000sft | 1.00 |
| LR132 | 131 | 132 | ΔElev. | 0.202sft | 0.010sft | 0.000sft | 1.00 |
| LR131 | 130 | 131 | ΔElev. | 0.375sft | 0.010sft | 0.000sft | 1.00 |
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|---|---|---|---|---|---|---|---|
| LR124 | 123 | 124 | ΔElev. | 0.146sft | 0.010sft | 0.000sft | 1.00 |
| LR5 | 4 | 5 | ΔElev. | 0.126sft | 0.010sft | 0.000sft | 1.00 |
| LR6 | 5 | 6 | ΔElev. | 0.116sft | 0.010sft | 0.000sft | 1.00 |
| LR3 | 2 | 3 | ΔElev. | -0.154sft | 0.010sft | 0.000sft | 1.00 |
| LR127 | 126 | 127 | ΔElev. | 0.436sft | 0.010sft | 0.000sft | 1.00 |
| LR126 | 125 | 126 | ΔElev. | -0.056sft | 0.010sft | 0.000sft | 1.00 |
| LR135 | 134 | 135 | ΔElev. | 0.083sft | 0.010sft | 0.000sft | 1.00 |
| LR147 | 146 | 147 | ΔElev. | -0.348sft | 0.010sft | 0.000sft | 1.00 |
| LR146 | 145 | 146 | ΔElev. | 0.008sft | 0.010sft | 0.000sft | 1.00 |
| LR148 | 147 | 148 | ΔElev. | 0.139sft | 0.010sft | 0.000sft | 1.00 |
| LR136 | 135 | 136 | ΔElev. | 0.515sft | 0.010sft | 0.000sft | 1.00 |
| LR138 | 137 | 138 | ΔElev. | -0.602sft | 0.010sft | 0.000sft | 1.00 |
| LR139 | 138 | 139 | ΔElev. | 0.003sft | 0.010sft | 0.000sft | 1.00 |
| LR141 | 140 | 141 | ΔElev. | 0.134sft | 0.010sft | 0.000sft | 1.00 |
| LR152 | 151 | 152 | ΔElev. | 0.650sft | 0.010sft | 0.000sft | 1.00 |
| LR150 | 149 | 150 | ΔElev. | -0.208sft | 0.010sft | 0.000sft | 1.00 |
| LR145 | 144 | 145 | ΔElev. | -0.120sft | 0.010sft | 0.000sft | 1.00 |
| LR143 | 142 | B9253 | ΔElev. | -0.780sft | 0.010sft | 0.000sft | 1.00 |
| LR144 | B9253 | 144 | ΔElev. | -0.038sft | 0.010sft | 0.000sft | 1.00 |
| LR13 | 12 | 13 | ΔElev. | -0.598sft | 0.010sft | 0.000sft | 1.00 |
| LR15 | 14 | 15 | ΔElev. | -0.064sft | 0.010sft | 0.000sft | 1.00 |
| LR17 | 16 | 17 | ΔElev. | -0.277sft | 0.010sft | 0.000sft | 1.00 |
| LR22 | 21 | 22 | ΔElev. | 0.202sft | 0.010sft | 0.000sft | 1.00 |
| LR23 | 22 | 23 | ΔElev. | 0.301sft | 0.010sft | 0.000sft | 1.00 |
| LR24 | 23 | 24 | ΔElev. | -0.351sft | 0.010sft | 0.000sft | 1.00 |
| LR28 | 27 | 28 | ΔElev. | -0.236sft | 0.010sft | 0.000sft | 1.00 |
| LR20 | 19 | 20 | ΔElev. | 0.072sft | 0.010sft | 0.000sft | 1.00 |
| LR151 | 150 | 151 | ΔElev. | -0.189sft | 0.010sft | 0.000sft | 1.00 |
| LR154 | 153 | 154 | ΔElev. | 0.424sft | 0.010sft | 0.000sft | 1.00 |
| LR31 | 30 | 31 | ΔElev. | -0.084sft | 0.010sft | 0.000sft | 1.00 |
| LR30 | 29 | 30 | ΔElev. | 0.029sft | 0.010sft | 0.000sft | 1.00 |
| LR29 | 28 | 29 | ΔElev. | -0.140sft | 0.010sft | 0.000sft | 1.00 |
| LR27 | 26 | 27 | ΔElev. | -0.447sft | 0.010sft | 0.000sft | 1.00 |
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|---|---|---|---|---|---|---|---|
| LR25 | 24 | 25 | ΔElev. | 0.159sft | 0.010sft | 0.000sft | 1.00 |
| LR156 | 155 | 156 | ΔElev. | 0.174sft | 0.010sft | 0.000sft | 1.00 |
| LR160 | 159 | 160 | ΔElev. | -0.198sft | 0.010sft | 0.000sft | 1.00 |
| LR159 | 158 | 159 | ΔElev. | -0.122sft | 0.010sft | 0.000sft | 1.00 |
| LR163 | 162 | 163 | ΔElev. | 0.191sft | 0.010sft | 0.000sft | 1.00 |
| LR166 | 165 | 166 | ΔElev. | 0.301sft | 0.010sft | 0.000sft | 1.00 |
| LR164 | 163 | 164 | ΔElev. | -0.057sft | 0.010sft | 0.000sft | 1.00 |
| LR174 | 173 | 174 | ΔElev. | -0.044sft | 0.010sft | 0.000sft | 1.00 |
| LR170 | 169 | 170 | ΔElev. | 0.080sft | 0.010sft | 0.000sft | 1.00 |
| LR167 | 166 | 167 | ΔElev. | 0.047sft | 0.010sft | 0.000sft | 1.00 |
| LR168 | 167 | 168 | ΔElev. | -0.114sft | 0.010sft | 0.000sft | 1.00 |
| LR169 | 168 | 169 | ΔElev. | 0.107sft | 0.010sft | 0.000sft | 1.00 |
| LR171 | 170 | 171 | ΔElev. | 0.575sft | 0.010sft | 0.000sft | 1.00 |
| LR192 | 191 | 192 | ΔElev. | -0.188sft | 0.010sft | 0.000sft | 1.00 |
| LR188 | 187 | 188 | ΔElev. | -0.025sft | 0.010sft | 0.000sft | 1.00 |
| LR173 | 172 | 173 | ΔElev. | -0.533sft | 0.010sft | 0.000sft | 1.00 |
| LR200 | 199 | 200 | ΔElev. | 0.105sft | 0.010sft | 0.000sft | 1.00 |
| LR189 | 188 | 189 | ΔElev. | 0.652sft | 0.010sft | 0.000sft | 1.00 |
| LR183 | 182 | 183 | ΔElev. | 0.522sft | 0.010sft | 0.000sft | 1.00 |
| LR181 | 180 | 181 | ΔElev. | -0.253sft | 0.010sft | 0.000sft | 1.00 |
| LR199 | 198 | 199 | ΔElev. | -0.234sft | 0.010sft | 0.000sft | 1.00 |
| LR182 | 181 | 182 | ΔElev. | -0.149sft | 0.010sft | 0.000sft | 1.00 |
| LR196 | 195 | 196 | ΔElev. | -0.045sft | 0.010sft | 0.000sft | 1.00 |
| LR205 | 204 | 205 | ΔElev. | -0.013sft | 0.010sft | 0.000sft | 1.00 |
| LR194 | 193 | 194 | ΔElev. | 0.124sft | 0.010sft | 0.000sft | 1.00 |
| LR203 | 202 | 203 | ΔElev. | 0.259sft | 0.010sft | 0.000sft | 1.00 |
| LR201 | 200 | 201 | ΔElev. | 0.509sft | 0.010sft | 0.000sft | 1.00 |
| LR208 | 207 | 208 | ΔElev. | -0.763sft | 0.010sft | 0.000sft | 1.00 |
| LR211 | 210 | 211 | ΔElev. | -0.139sft | 0.010sft | 0.000sft | 1.00 |
| LR218 | 217 | COLL0018 | ΔElev. | -0.061sft | 0.010sft | 0.000sft | 1.00 |
| LR217 | 216 | 217 | ΔElev. | 0.146sft | 0.010sft | 0.000sft | 1.00 |
| LR219 | COLL0018 | 219 | ΔElev. | -0.377sft | 0.010sft | 0.000sft | 1.00 |
| LR216 | 215 | 216 | ΔElev. | -0.635sft | 0.010sft | 0.000sft | 1.00 |

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|---|---|---|---|---|---|---|---|
| LR37 | 36 | 37 | ΔElev. | -0.467sft | 0.010sft | 0.000sft | 1.00 |
| LR38 | 37 | 38 | ΔElev. | -0.087sft | 0.010sft | 0.000sft | 1.00 |
| LR34 | 33 | 34 | ΔElev. | 0.284sft | 0.010sft | 0.000sft | 1.00 |
| LR44 | 43 | 44 | ΔElev. | 0.016sft | 0.010sft | 0.000sft | 1.00 |
| LR46 | SGT2W6 | 46 | ΔElev. | 0.302sft | 0.010sft | 0.000sft | 1.00 |
| LR48 | 47 | 48 | ΔElev. | 0.449sft | 0.010sft | 0.000sft | 1.00 |
| LR49 | 48 | 49 | ΔElev. | 0.291sft | 0.010sft | 0.000sft | 1.00 |
| LR62 | 61 | 62 | ΔElev. | 0.188sft | 0.010sft | 0.000sft | 1.00 |
| LR65 | 64 | 65 | ΔElev. | 0.552sft | 0.010sft | 0.000sft | 1.00 |
| LR227 | 226 | 227 | ΔElev. | 0.176sft | 0.010sft | 0.000sft | 1.00 |
| LR73 | 72 | 73 | ΔElev. | 0.651sft | 0.010sft | 0.000sft | 1.00 |
| LR68 | 67 | 68 | ΔElev. | -0.262sft | 0.010sft | 0.000sft | 1.00 |
| LR69 | 68 | 69 | ΔElev. | -0.029sft | 0.010sft | 0.000sft | 1.00 |
| LR70 | 69 | 70 | ΔElev. | 0.108sft | 0.010sft | 0.000sft | 1.00 |
| LR80 | 79 | 80 | ΔElev. | 0.031sft | 0.010sft | 0.000sft | 1.00 |
| LR78 | 77 | 78 | ΔElev. | -0.159sft | 0.010sft | 0.000sft | 1.00 |
| LR67 | 66 | 67 | ΔElev. | -0.037sft | 0.010sft | 0.000sft | 1.00 |
| LR72 | 71 | 72 | ΔElev. | 0.092sft | 0.010sft | 0.000sft | 1.00 |
| LR71 | 70 | 71 | ΔElev. | 0.153sft | 0.010sft | 0.000sft | 1.00 |
| LR74 | 73 | 74 | ΔElev. | -0.153sft | 0.010sft | 0.000sft | 1.00 |
| LR81 | 80 | 81 | ΔElev. | -0.666sft | 0.010sft | 0.000sft | 1.00 |
| LR76 | 75 | SGT2W5 | ΔElev. | -0.174sft | 0.010sft | 0.000sft | 1.00 |
| LR79 | 78 | 79 | ΔElev. | 0.200sft | 0.010sft | 0.000sft | 1.00 |
| LR85 | 84 | A9253 | ΔElev. | -0.030sft | 0.010sft | 0.000sft | 1.00 |
| LR206 | 205 | 206 | ΔElev. | 0.182sft | 0.010sft | 0.000sft | 1.00 |
| LR209 | 208 | SGT1W4 | ΔElev. | 0.362sft | 0.010sft | 0.000sft | 1.00 |
| LR207 | 206 | 207 | ΔElev. | -0.528sft | 0.010sft | 0.000sft | 1.00 |
| LR229 | 228 | 229 | ΔElev. | 0.086sft | 0.010sft | 0.000sft | 1.00 |
| LR228 | 227 | 228 | ΔElev. | 0.158sft | 0.010sft | 0.000sft | 1.00 |
| LR231 | 230 | 231 | ΔElev. | 0.089sft | 0.010sft | 0.000sft | 1.00 |
| LR226 | 225 | 226 | ΔElev. | 0.309sft | 0.010sft | 0.000sft | 1.00 |
| LR230 | 229 | 230 | ΔElev. | -0.177sft | 0.010sft | 0.000sft | 1.00 |
| LR210 | SGT1W4 | 210 | ΔElev. | 0.806sft | 0.010sft | 0.000sft | 1.00 |
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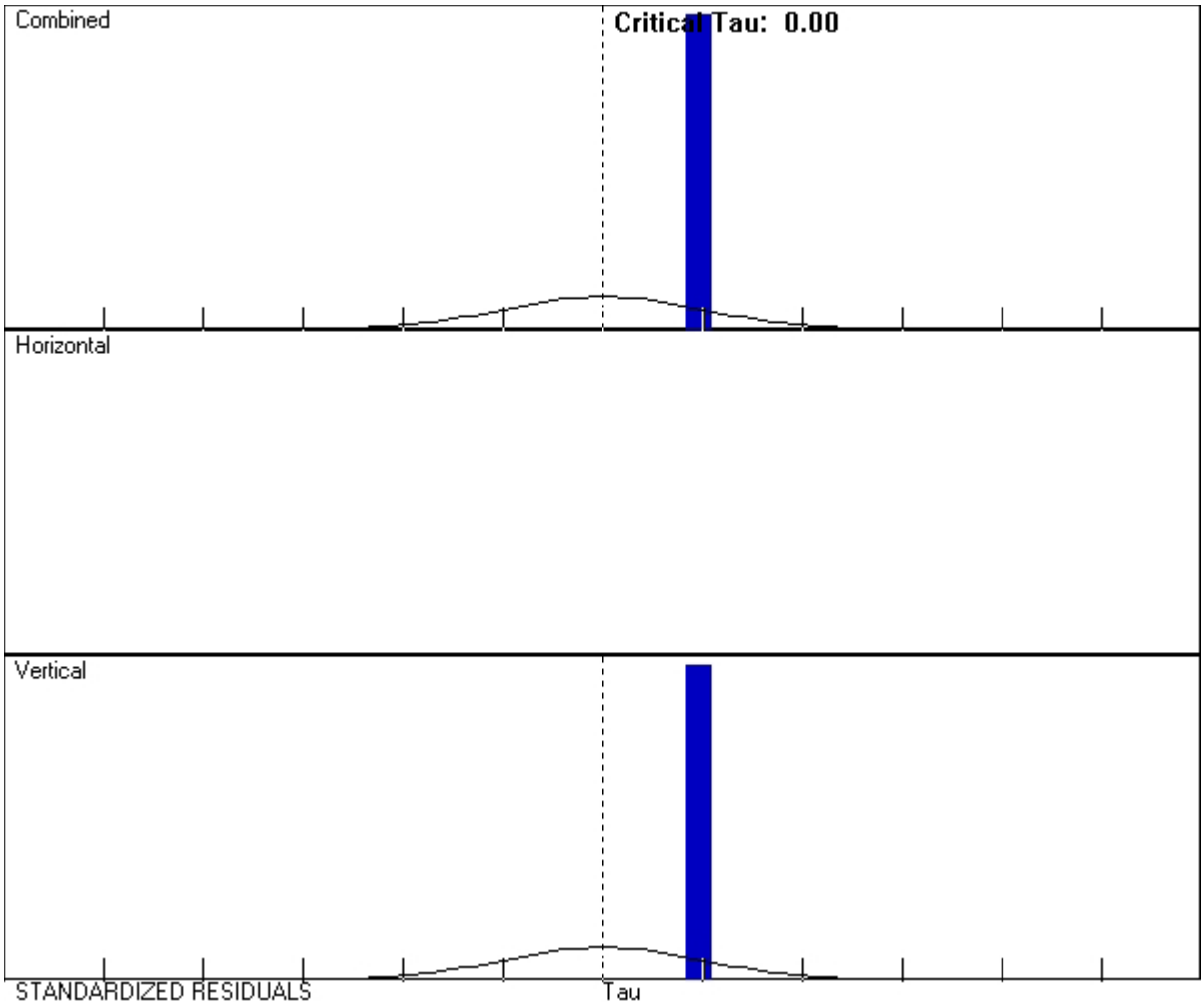
|---|---|---|---|---|---|---|---|
| LR212 | 211 | 212 | ΔElev. | 0.051sft | 0.010sft | 0.000sft | 1.00 |
| LR213 | 212 | 213 | ΔElev. | 0.360sft | 0.010sft | 0.000sft | 1.00 |
| LR214 | 213 | 214 | ΔElev. | 0.248sft | 0.010sft | 0.000sft | 1.00 |
| LR232 | 231 | 232 | ΔElev. | -0.127sft | 0.010sft | 0.000sft | 1.00 |
| LR235 | 234 | 235 | ΔElev. | 0.041sft | 0.010sft | 0.000sft | 1.00 |
| LR221 | 220 | 221 | ΔElev. | 0.317sft | 0.010sft | 0.000sft | 1.00 |
| LR233 | 232 | 233 | ΔElev. | 0.350sft | 0.010sft | 0.000sft | 1.00 |
| LR215 | 214 | 215 | ΔElev. | -0.214sft | 0.010sft | 0.000sft | 1.00 |
| LR220 | 219 | 220 | ΔElev. | -0.027sft | 0.010sft | 0.000sft | 1.00 |
| LR222 | 221 | 222 | ΔElev. | 0.044sft | 0.010sft | 0.000sft | 1.00 |
| LR224 | 223 | 224 | ΔElev. | -0.359sft | 0.010sft | 0.000sft | 1.00 |
| LR223 | 222 | 223 | ΔElev. | -0.733sft | 0.010sft | 0.000sft | 1.00 |
| LR153 | 152 | 153 | ΔElev. | 0.368sft | 0.010sft | 0.000sft | 1.00 |
| LR158 | 157 | 158 | ΔElev. | -0.486sft | 0.010sft | 0.000sft | 1.00 |
| LR155 | 154 | 155 | ΔElev. | -0.554sft | 0.010sft | 0.000sft | 1.00 |
| LR225 | 224 | 225 | ΔElev. | 0.138sft | 0.010sft | 0.000sft | 1.00 |
| LR236 | 235 | J598 | ΔElev. | -1.708sft | 0.010sft | 0.000sft | 1.00 |
| LR234 | 233 | 234 | ΔElev. | 0.294sft | 0.010sft | 0.000sft | 1.00 |
| LR157 | 156 | 157 | ΔElev. | 0.047sft | 0.010sft | 0.000sft | 1.00 |
| LR162 | SGT2W4 | 162 | ΔElev. | -0.275sft | 0.010sft | 0.000sft | 1.00 |
| LR161 | 160 | SGT2W4 | ΔElev. | 0.231sft | 0.010sft | 0.000sft | 1.00 |
| LR165 | 164 | 165 | ΔElev. | -0.031sft | 0.010sft | 0.000sft | 1.00 |
| LR177 | 176 | 177 | ΔElev. | -0.138sft | 0.010sft | 0.000sft | 1.00 |
| LR178 | 177 | 178 | ΔElev. | -0.565sft | 0.010sft | 0.000sft | 1.00 |
| LR179 | 178 | 179 | ΔElev. | 0.165sft | 0.010sft | 0.000sft | 1.00 |
| LR175 | 174 | 175 | ΔElev. | -0.440sft | 0.010sft | 0.000sft | 1.00 |
| LR172 | 171 | 172 | ΔElev. | 0.197sft | 0.010sft | 0.000sft | 1.00 |
| LR184 | 183 | 184 | ΔElev. | 0.596sft | 0.010sft | 0.000sft | 1.00 |
| LR185 | 184 | 185 | ΔElev. | 0.053sft | 0.010sft | 0.000sft | 1.00 |
| LR180 | 179 | 180 | ΔElev. | 0.437sft | 0.010sft | 0.000sft | 1.00 |
| LR198 | 197 | 198 | ΔElev. | -0.183sft | 0.010sft | 0.000sft | 1.00 |
| LR197 | 196 | 197 | ΔElev. | 0.860sft | 0.010sft | 0.000sft | 1.00 |
| LR187 | 186 | 187 | ΔElev. | -0.045sft | 0.010sft | 0.000sft | 1.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LR193 | 192 | 193 | ΔElev. | -0.416sft | 0.010sft | 0.000sft | 1.00 |
| LR176 | 175 | 176 | ΔElev. | 0.559sft | 0.010sft | 0.000sft | 1.00 |
| LR186 | 185 | 186 | ΔElev. | -0.415sft | 0.010sft | 0.000sft | 1.00 |
| LR195 | 194 | 195 | ΔElev. | -0.299sft | 0.010sft | 0.000sft | 1.00 |
| LR190 | 189 | 190 | ΔElev. | -0.083sft | 0.010sft | 0.000sft | 1.00 |
| LR191 | 190 | 191 | ΔElev. | 0.140sft | 0.010sft | 0.000sft | 1.00 |
| LR204 | 203 | 204 | ΔElev. | -0.447sft | 0.010sft | 0.000sft | 1.00 |
| LR202 | 201 | 202 | ΔElev. | -0.348sft | 0.010sft | 0.000sft | 1.00 |
| LR87 | 86 | 87 | ΔElev. | 0.538sft | 0.010sft | 0.000sft | 1.00 |
| LR88 | 87 | 88 | ΔElev. | -0.114sft | 0.010sft | 0.000sft | 1.00 |
| LR89 | 88 | 89 | ΔElev. | 0.029sft | 0.010sft | 0.000sft | 1.00 |
| LR95 | 94 | 95 | ΔElev. | 0.297sft | 0.010sft | 0.000sft | 1.00 |
| LR96 | 95 | 96 | ΔElev. | 0.131sft | 0.010sft | 0.000sft | 1.00 |
| LR106 | 105 | 106 | ΔElev. | -0.445sft | 0.010sft | 0.000sft | 1.00 |
| LR99 | 98 | 99 | ΔElev. | 0.222sft | 0.010sft | 0.000sft | 1.00 |
| LR111 | 110 | 111 | ΔElev. | -0.231sft | 0.010sft | 0.000sft | 1.00 |
| LR102 | 101 | 102 | ΔElev. | -0.218sft | 0.010sft | 0.000sft | 1.00 |
| LR117 | 116 | 117 | ΔElev. | -0.023sft | 0.010sft | 0.000sft | 1.00 |
| LR123 | 122 | 123 | ΔElev. | 1.296sft | 0.010sft | 0.000sft | 1.00 |
| LR120 | 119 | 120 | ΔElev. | 0.206sft | 0.010sft | 0.000sft | 1.00 |
| LR119 | 118 | 119 | ΔElev. | 0.285sft | 0.010sft | 0.000sft | 1.00 |
| LR122 | 121 | 122 | ΔElev. | -0.757sft | 0.010sft | 0.000sft | 1.00 |
| LR134 | 133 | 134 | ΔElev. | -0.424sft | 0.010sft | 0.000sft | 1.00 |
| LR133 | 132 | 133 | ΔElev. | -0.042sft | 0.010sft | 0.000sft | 1.00 |
| LR128 | 127 | 128 | ΔElev. | -0.251sft | 0.010sft | 0.000sft | 1.00 |
| LR140 | 139 | 140 | ΔElev. | -0.031sft | 0.010sft | 0.000sft | 1.00 |
| LR130 | 129 | 130 | ΔElev. | -0.036sft | 0.010sft | 0.000sft | 1.00 |
| LR142 | 141 | 142 | ΔElev. | -0.679sft | 0.010sft | 0.000sft | 1.00 |
| LR137 | 136 | 137 | ΔElev. | 0.299sft | 0.010sft | 0.000sft | 1.00 |
| LR149 | 148 | 149 | ΔElev. | 0.659sft | 0.010sft | 0.000sft | 1.00 |

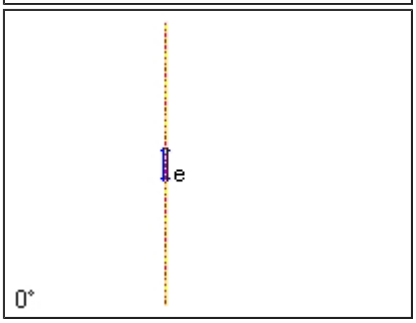
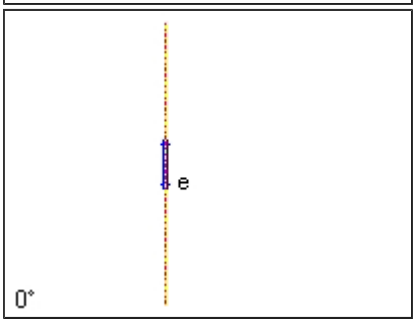
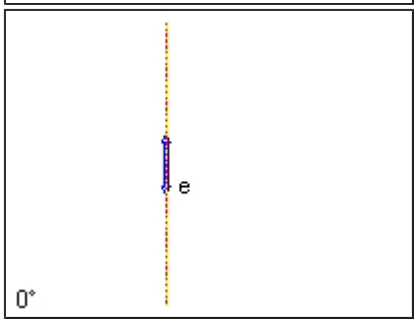
Back to top

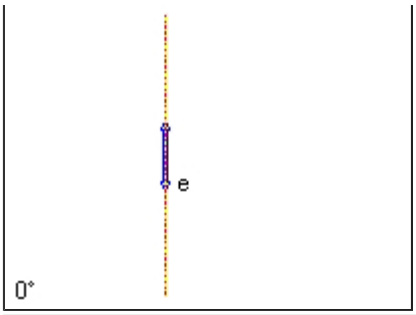
# Histograms of Standardized Residuals

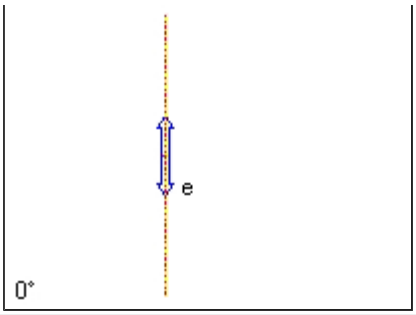


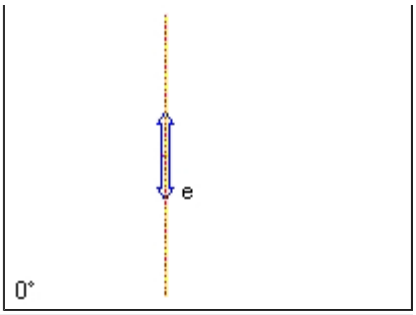

Back to top

# Point Error Ellipses

| 1 | 2 | 3 |
|---|---|---|
|   |   |   |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **4** | **5** | **6** |
| | | |

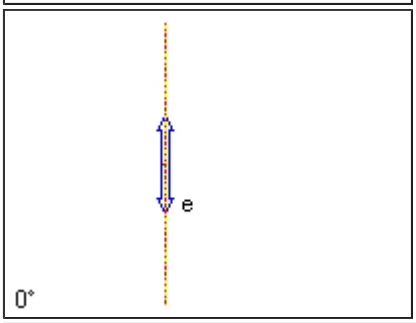


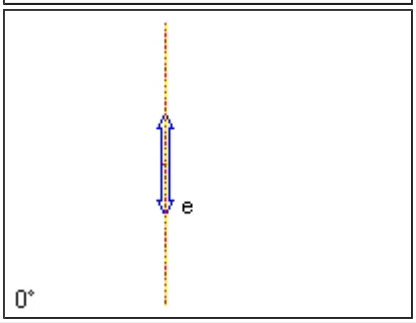



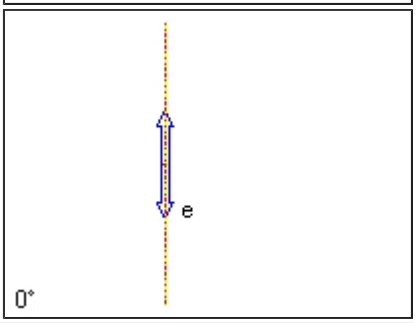




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 7 | 8 | 9 |
|---|---|---|

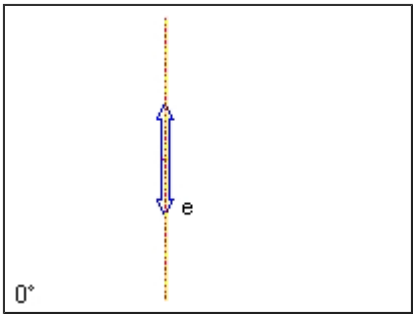


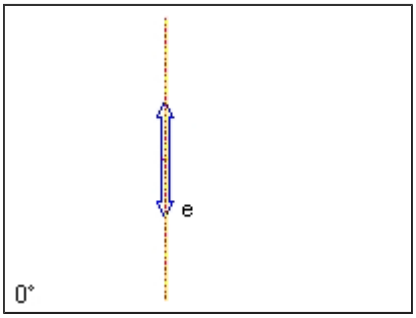



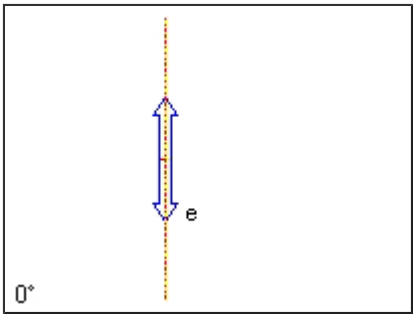




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 10 | 11 | 12 |
|---|---|---|

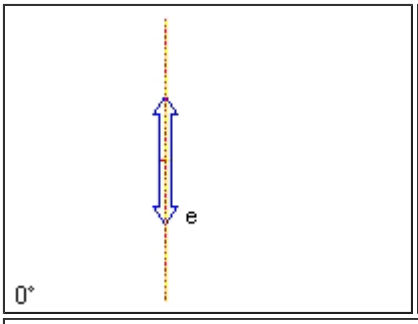


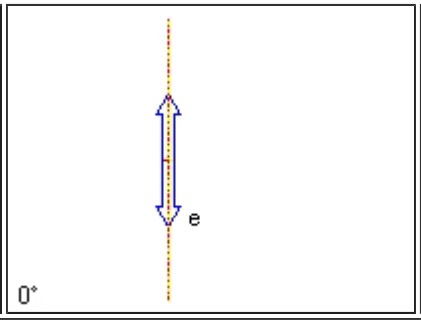



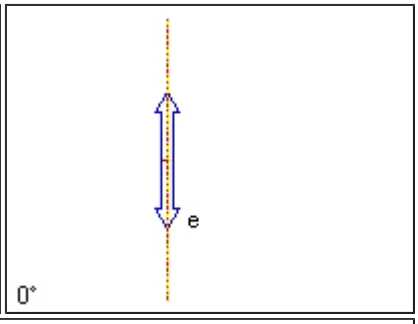




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 13 | 14 | 15 |
|---|---|---|

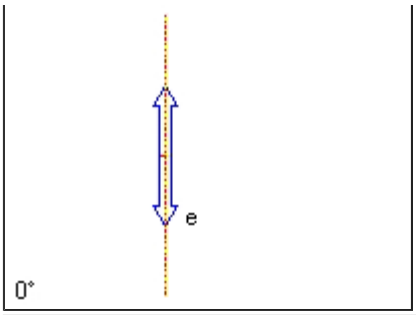


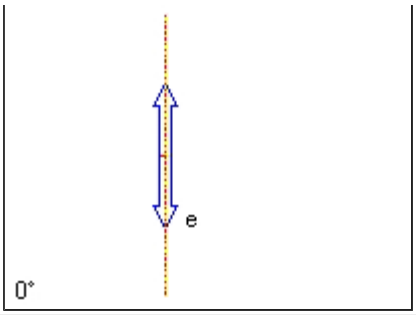



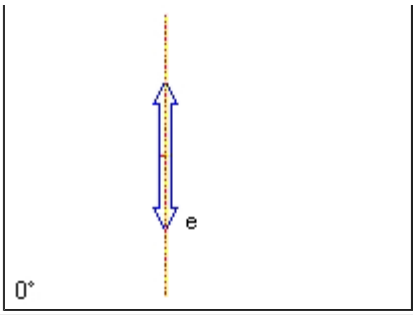




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 16 | 17 | 18 |
|---|---|---|

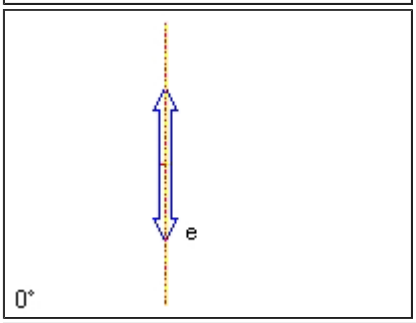


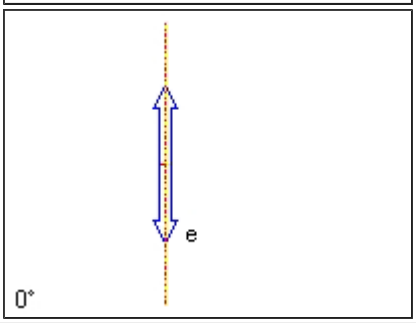



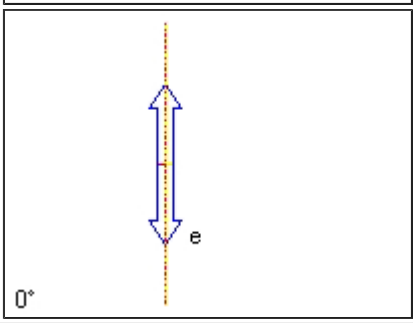




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 19 | 20 | 21 |
|---|---|---|

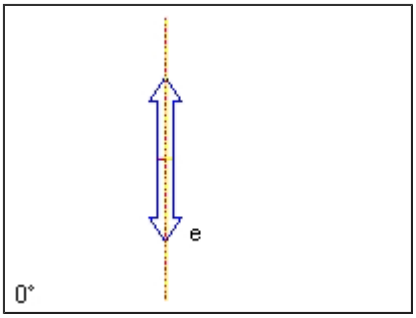


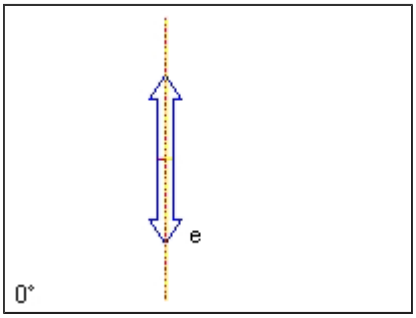



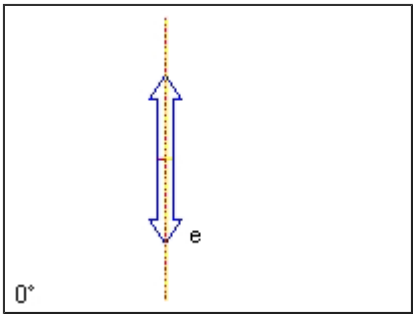




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 22 | 23 | 24 |
|---|---|---|

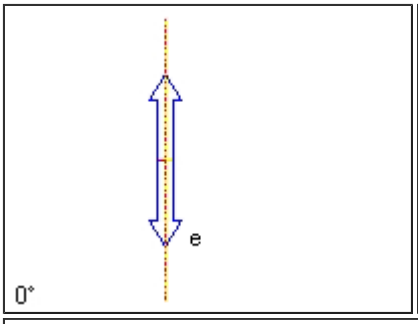


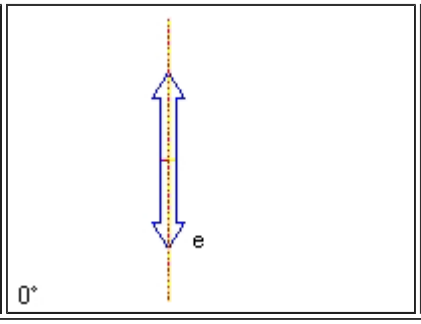



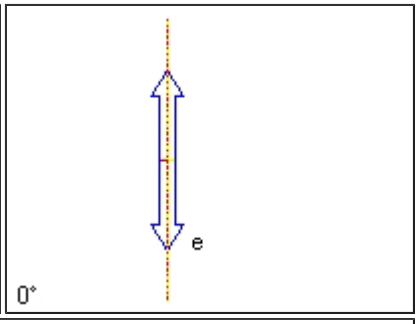




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 25 | 26 | 27 |
|---|---|---|

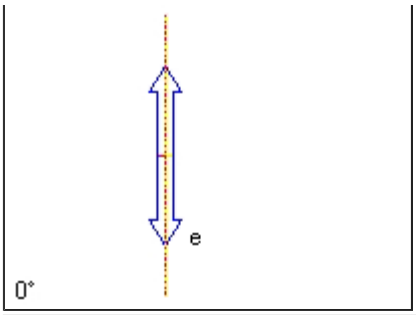


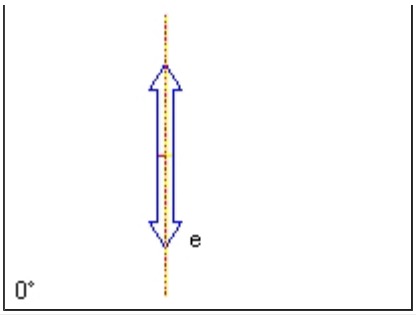



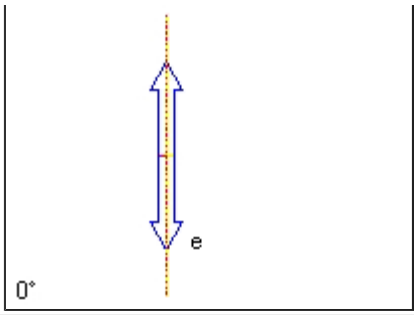




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 28 | 29 | 30 |
|---|---|---|

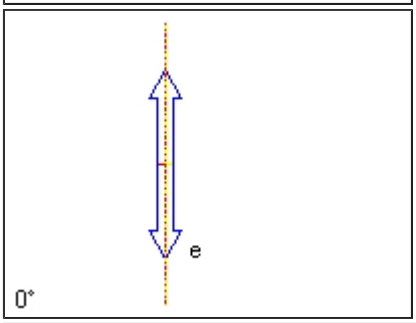


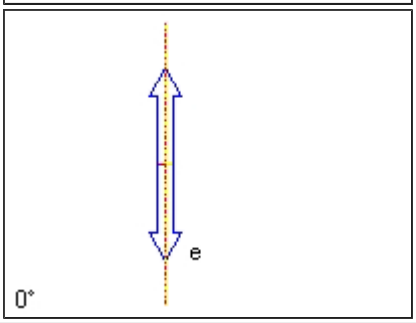



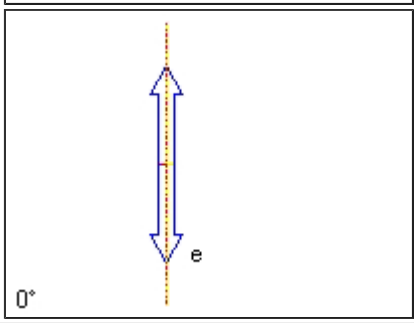




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 31 | 32 | 33 |
|---|---|---|

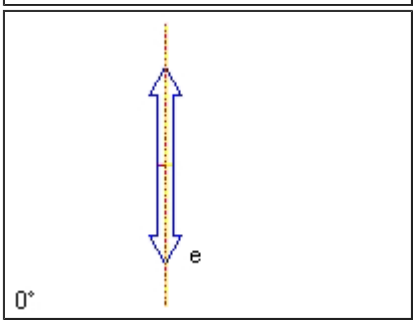


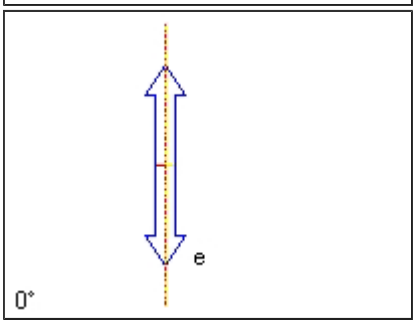



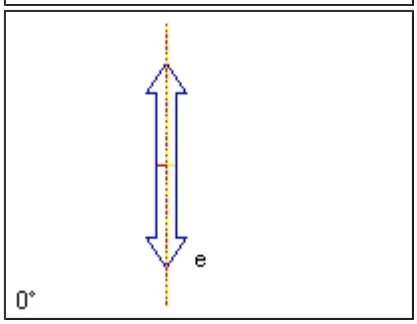




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 34 | 35 | 36 |
|---|---|---|

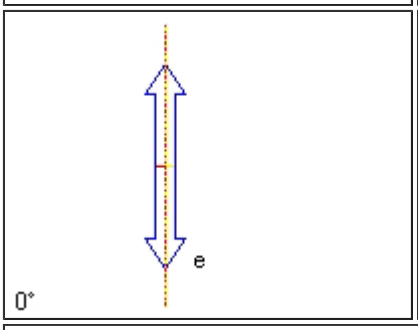


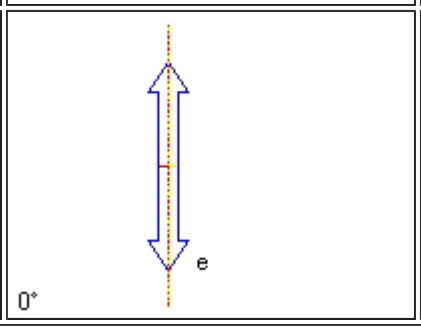



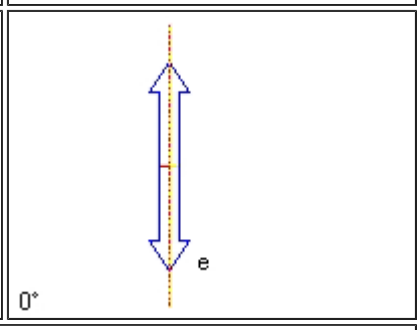




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 37 | 38 | 39 |
|---|---|---|

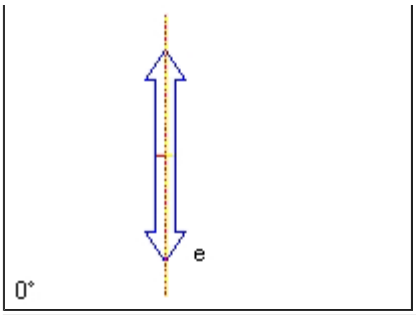


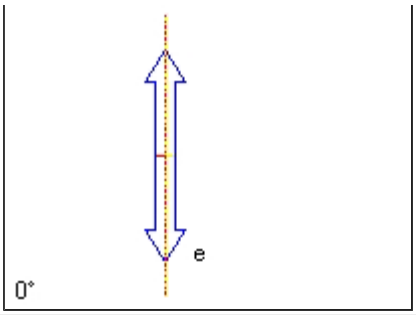



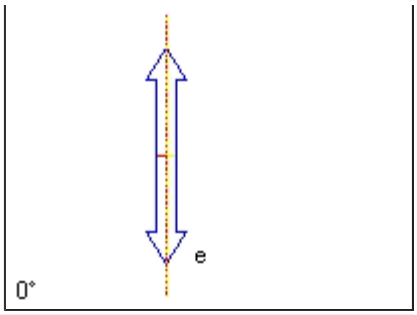




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 40 | 41 | 42 |
|---|---|---|

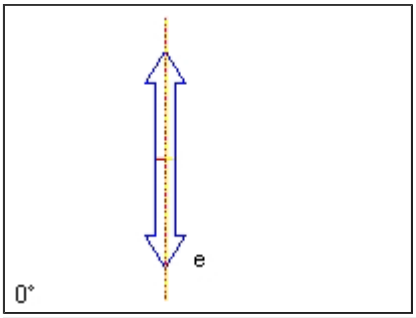


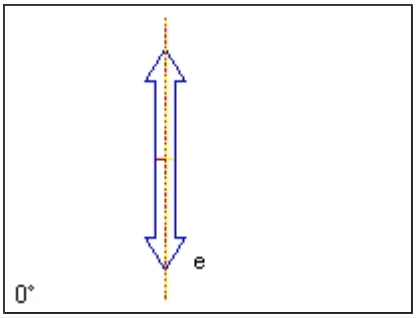



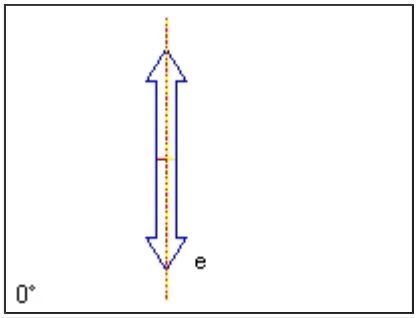




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 43 | 44 | SGT2W6 |
|---|---|---|

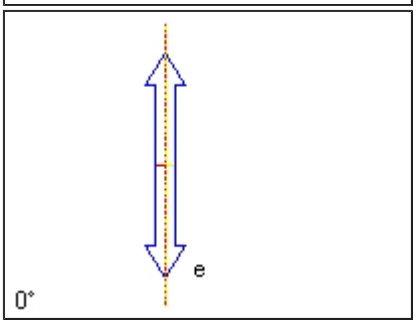


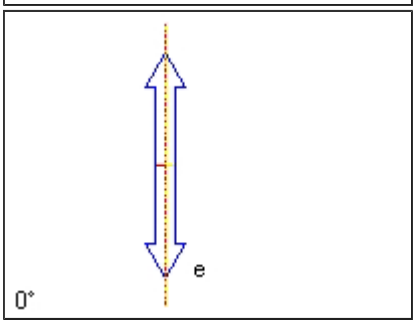



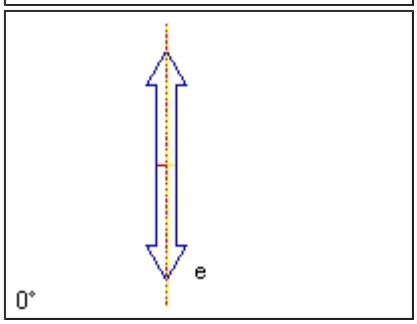




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 46 | 47 | 48 |
|---|---|---|

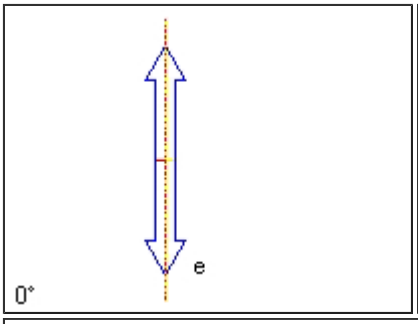


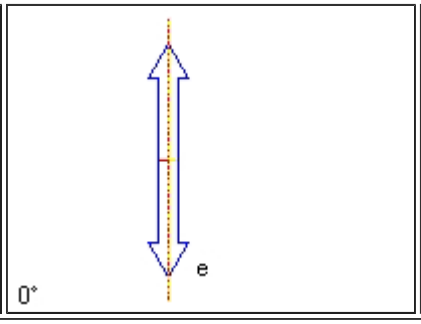



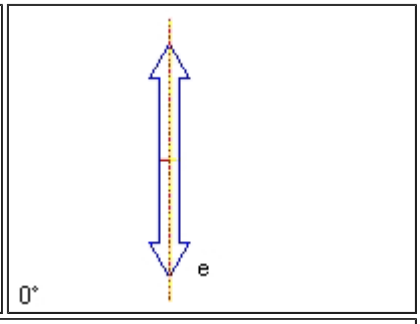




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 49 | 50 | 51 |
|---|---|---|

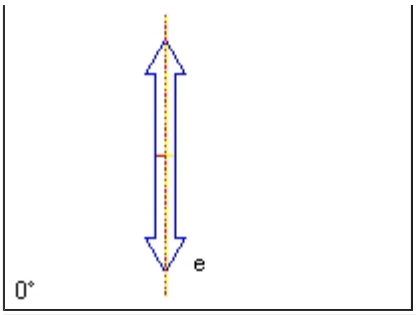


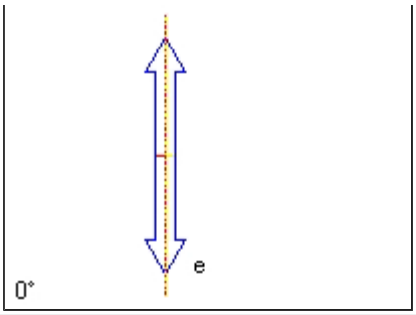



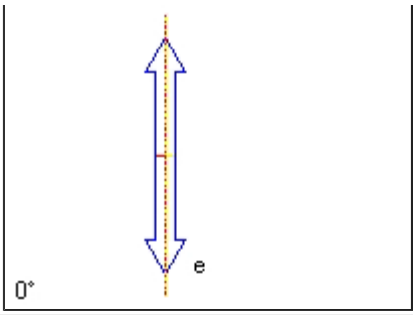




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 52 | 53 | 54 |
|---|---|---|

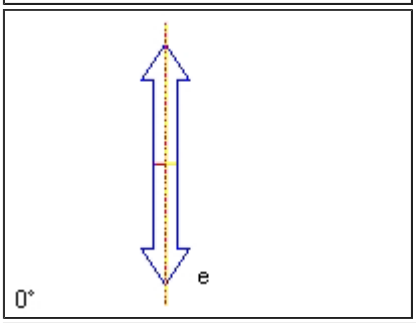


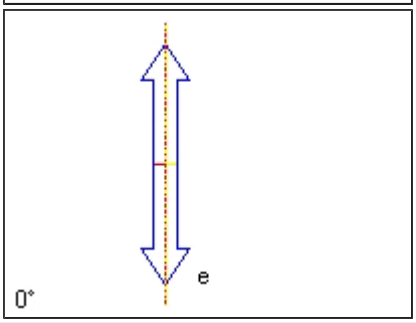



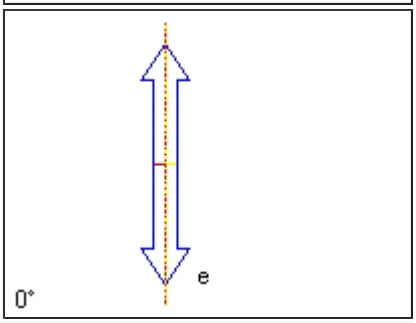




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 55 | 56 | 57 |
|---|---|---|

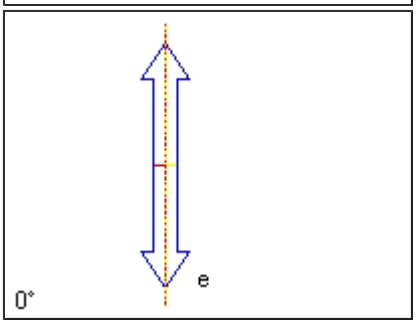


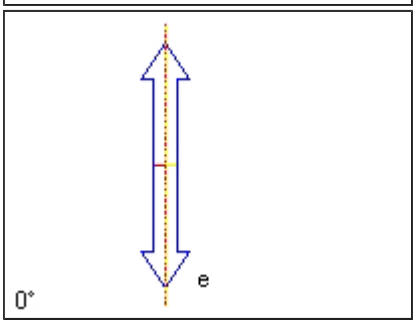



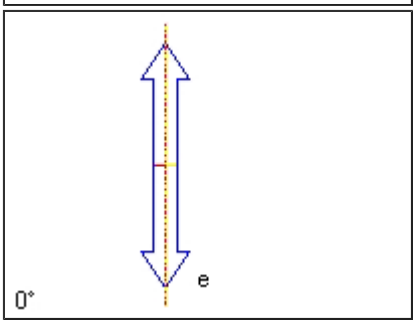




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 58 | 59 | 60 |
|---|---|---|

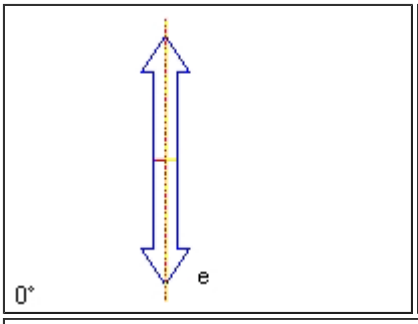


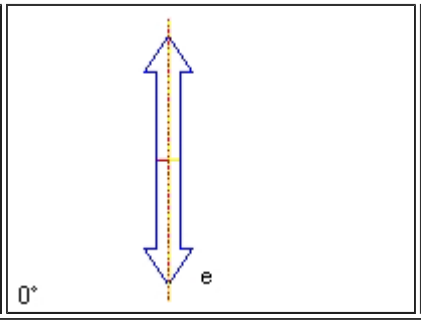



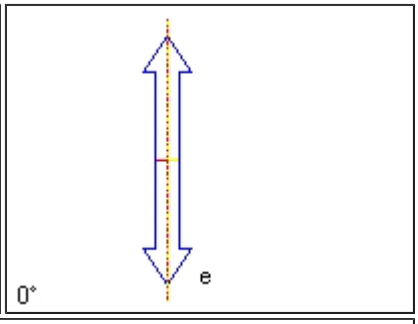




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 61 | 62 | 63 |
|---|---|---|

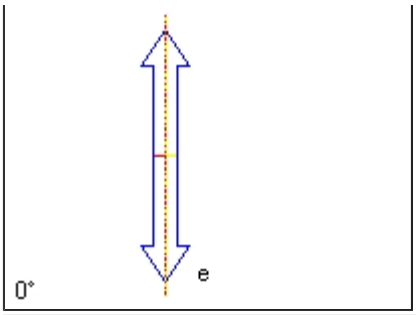


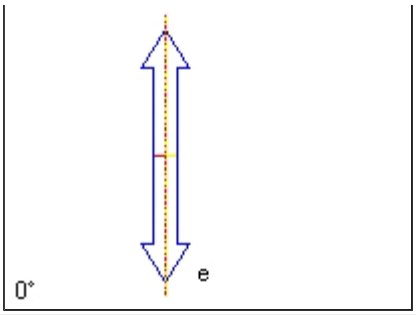



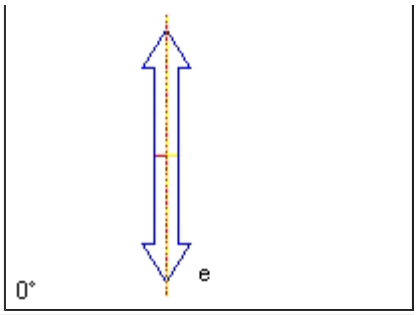




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 64 | 65 | 66 |
|---|---|---|

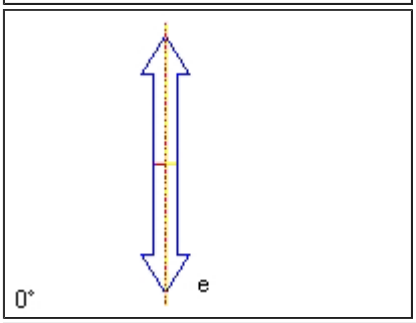


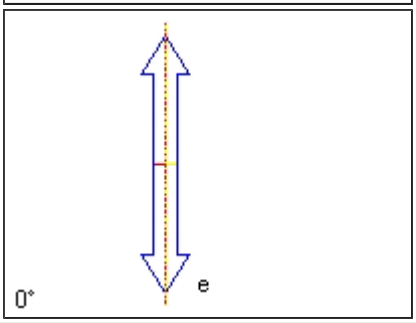



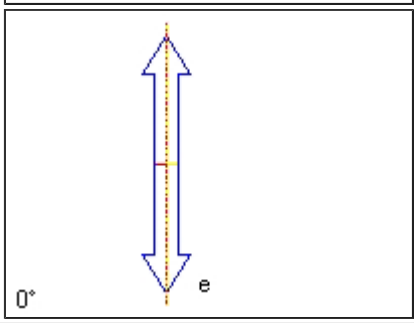




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 67 | 68 | 69 |
|---|---|---|

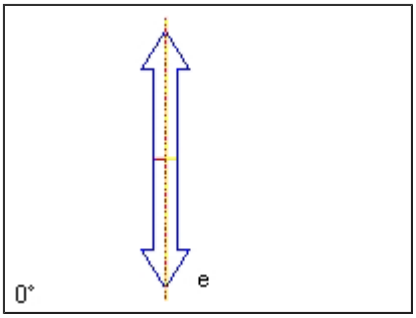


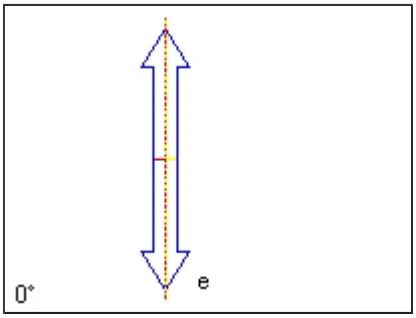



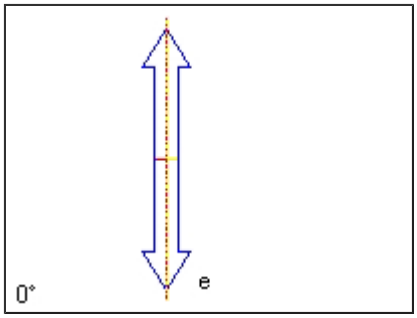




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 70 | 71 | 72 |
|---|---|---|

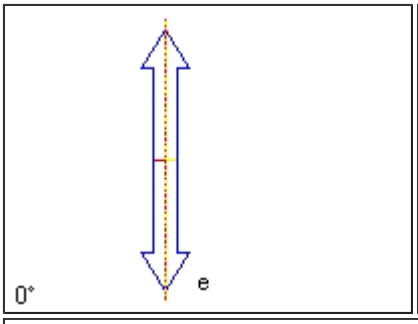


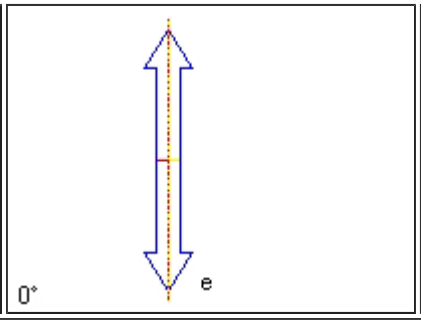



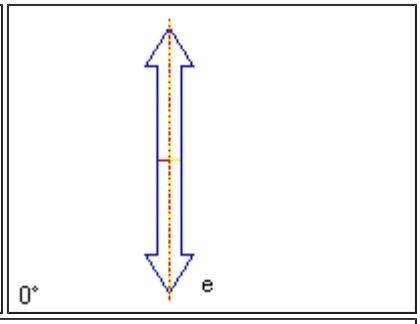




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 73 | 74 | 75 |
|---|---|---|

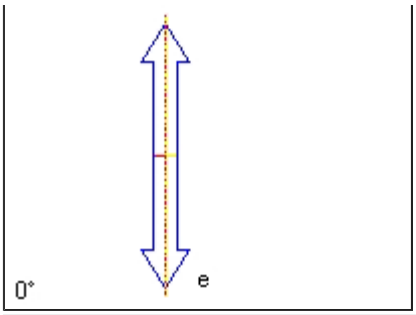


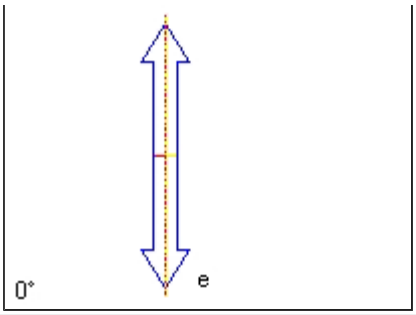



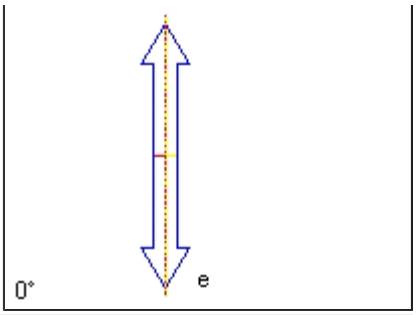




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| SGT2W5 | 77 | 78 |
|---|---|---|

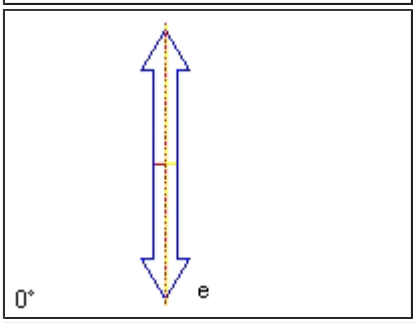


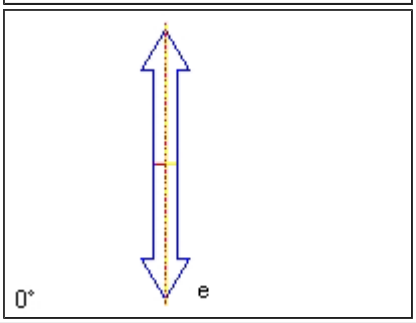



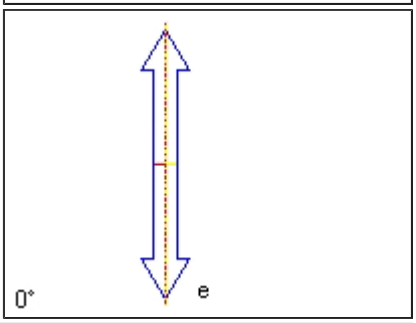




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 79 | 80 | 81 |
|---|---|---|

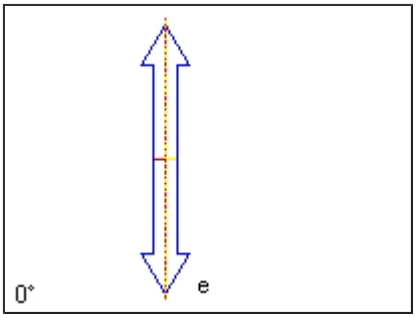


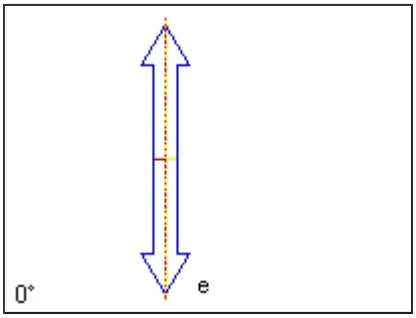



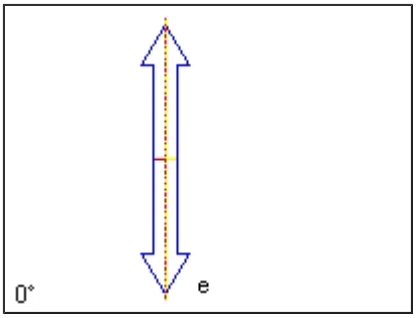




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 82 | 83 | 84 |
|---|---|---|

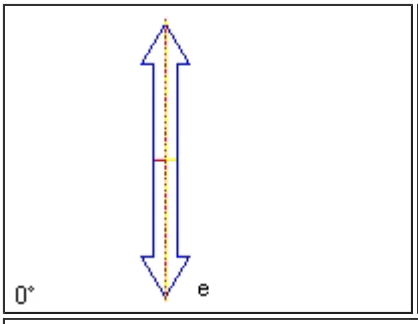


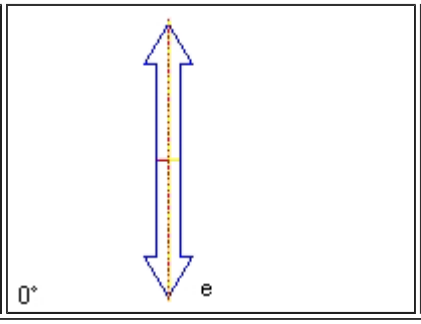



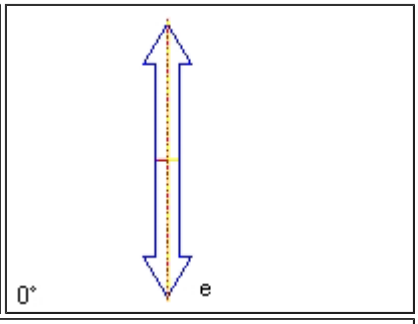




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| A9253 | 86 | 87 |
|---|---|---|

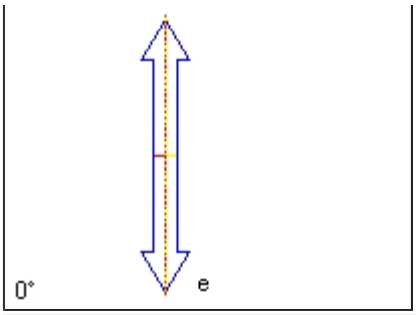


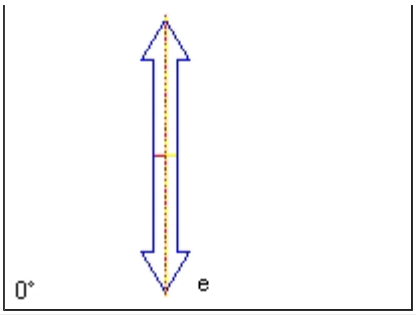



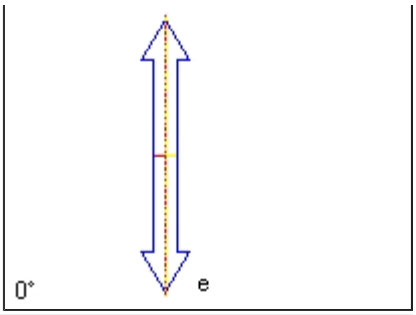




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 88 | 89 | 90 |
|---|---|---|

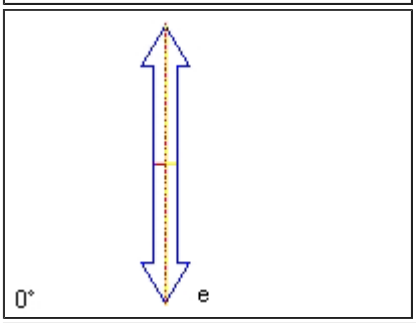


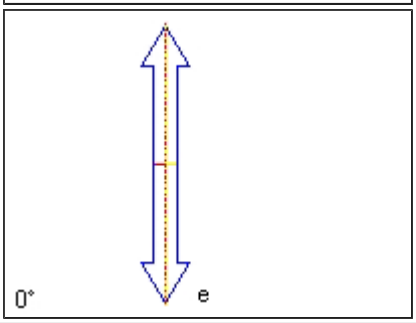



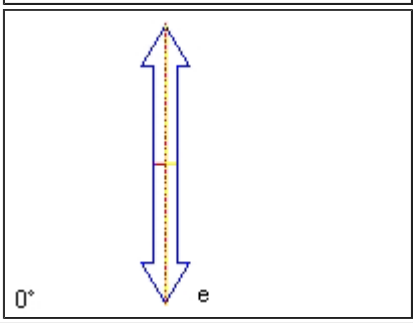




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 91 | 92 | 93 |
|---|---|---|

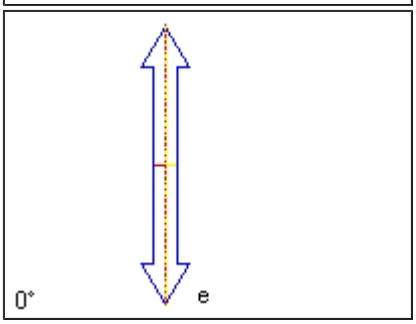


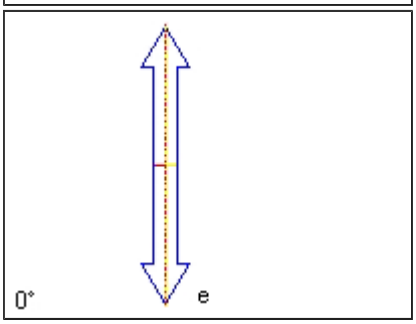



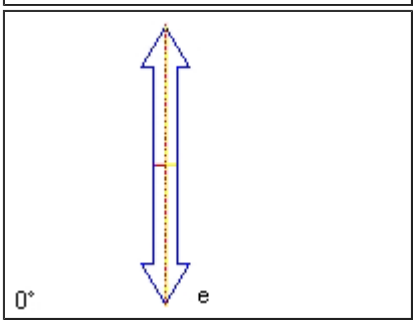




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 94 | 95 | 96 |
|---|---|---|

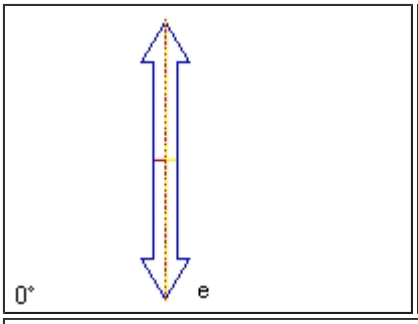


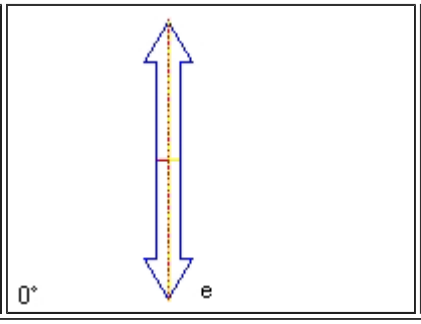



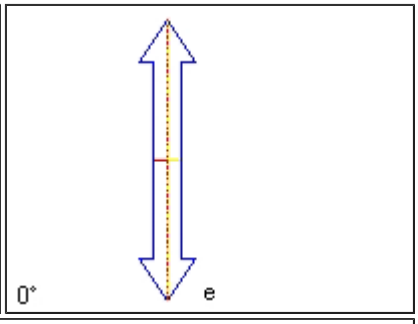




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 97 | 98 | 99 |
|---|---|---|

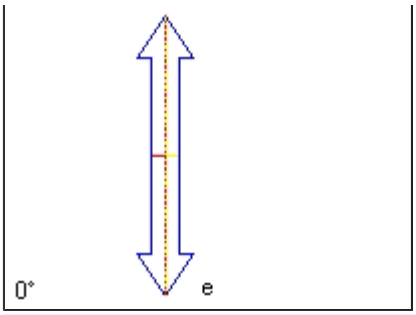


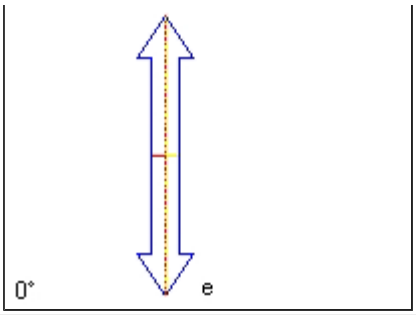



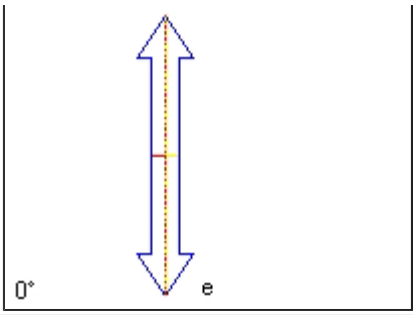




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 100 | 101 | 102 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 103 | 104 | 105 |
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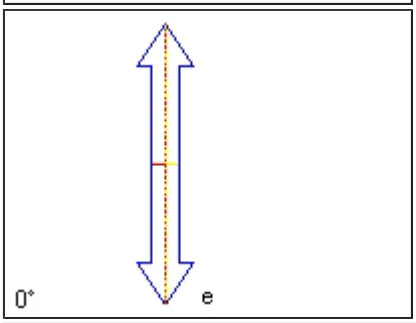


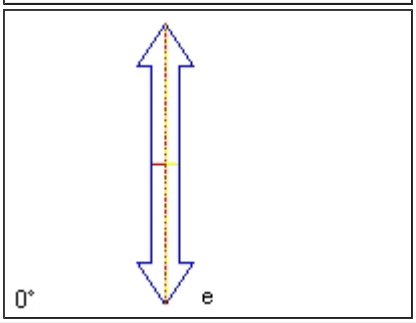


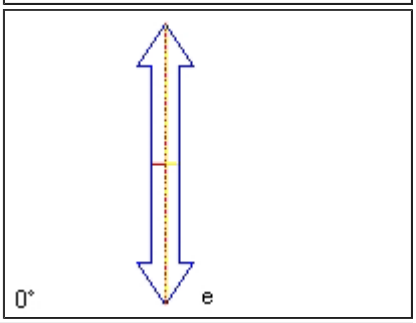


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 106 | 107 | 108 |
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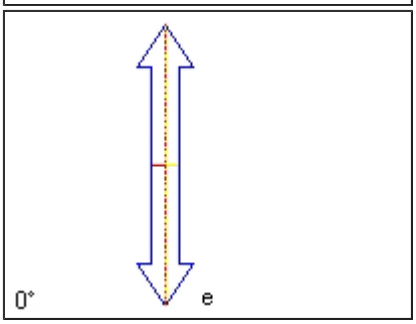


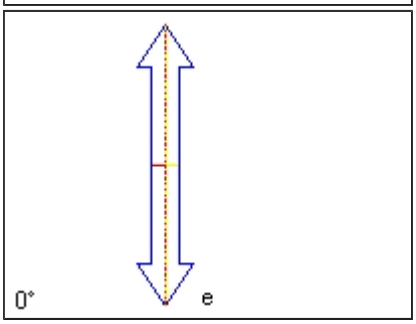


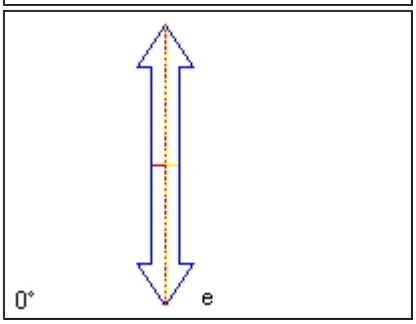


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 109 | 110 | 111 |
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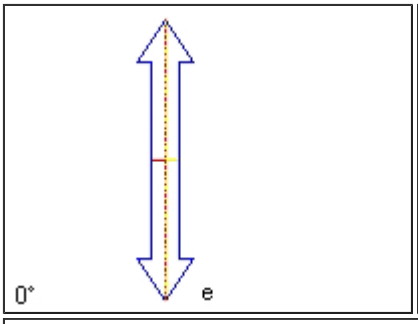


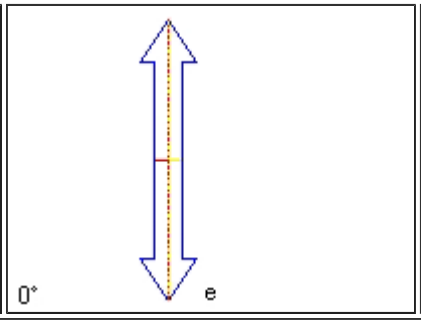


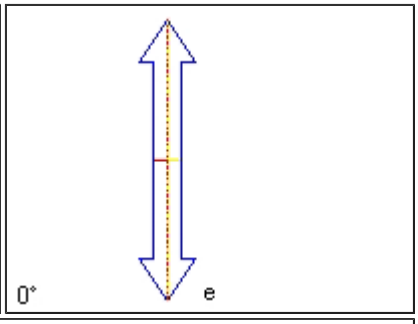


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 112 | 113 | SGT1W5 |
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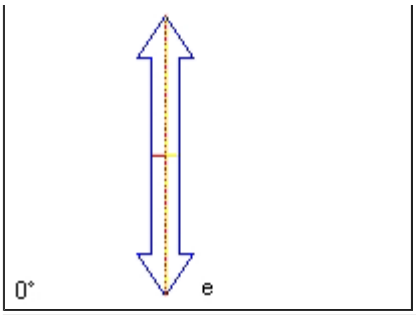


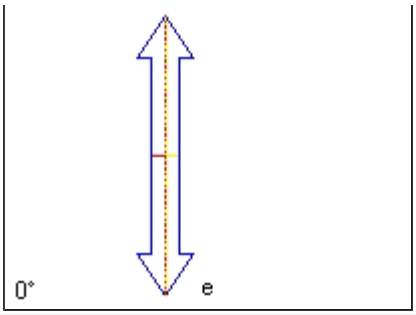


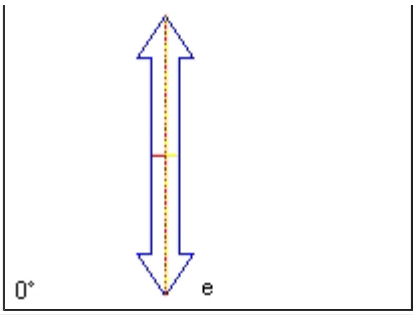


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 115 | 116 | 117 |
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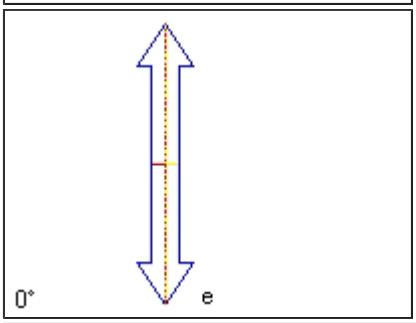


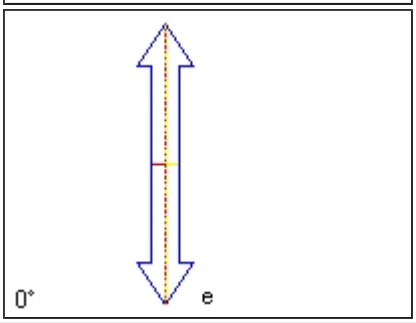


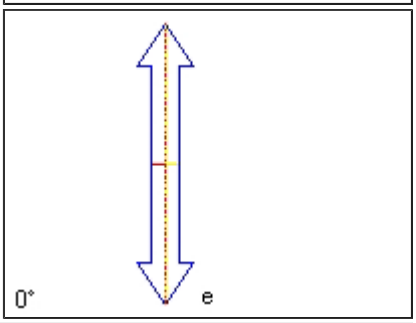


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 118 | 119 | 120 |
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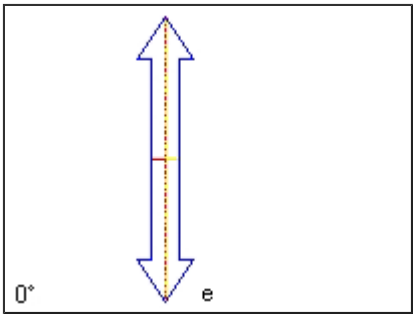


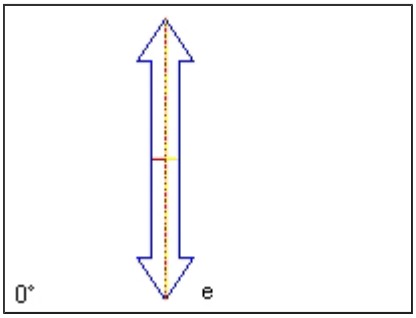


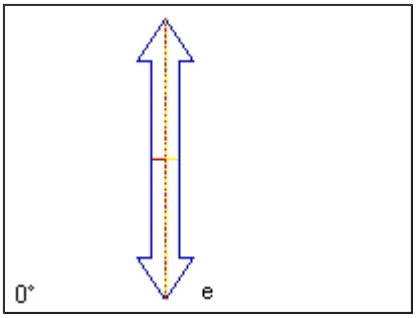


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 121 | 122 | 123 |
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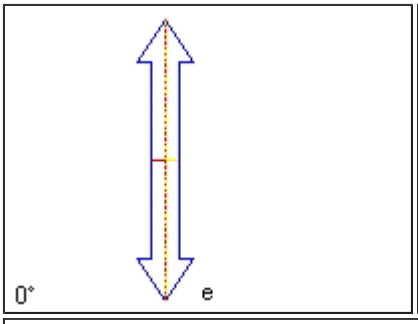
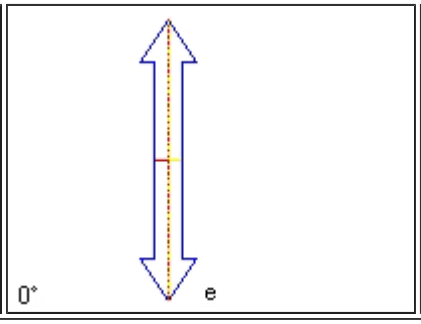
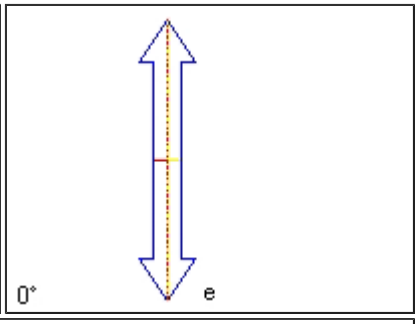
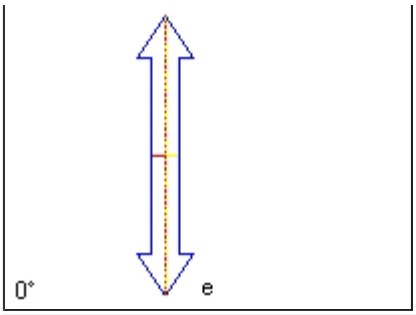


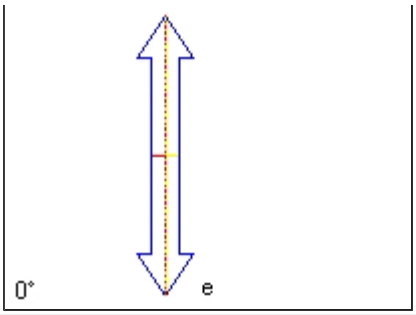



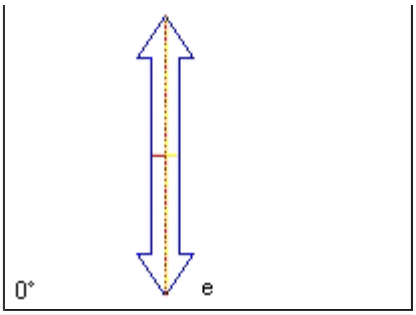




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 124 | 125 | 126 |
|---|---|---|

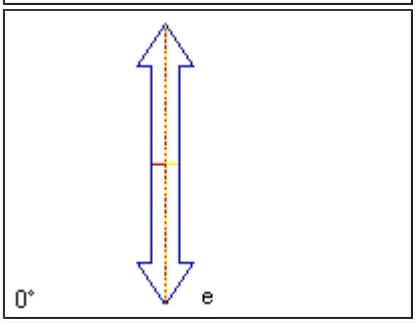


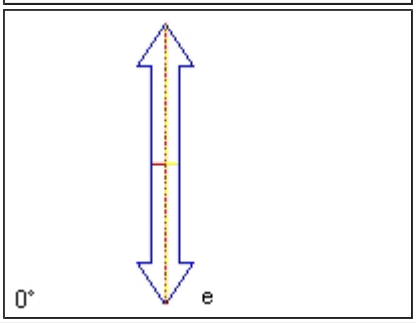



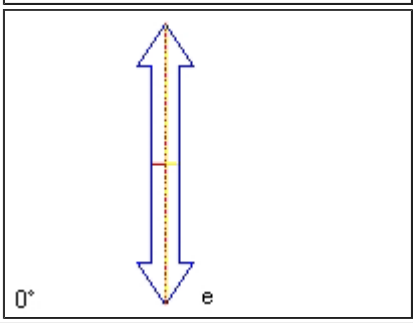




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 127 | 128 | 129 |
|---|---|---|

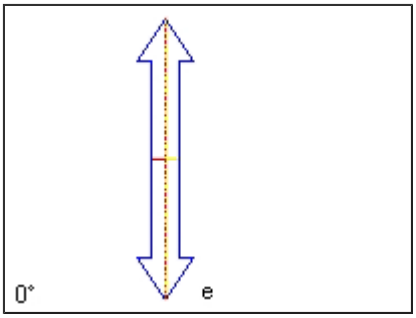


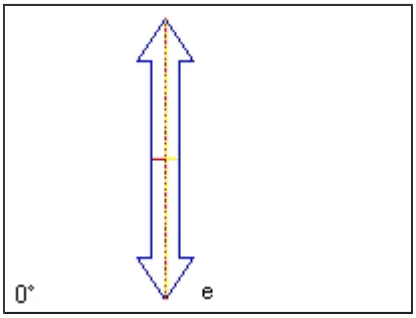



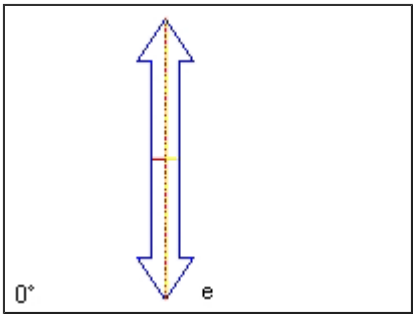




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 130 | 131 | 132 |
|---|---|---|

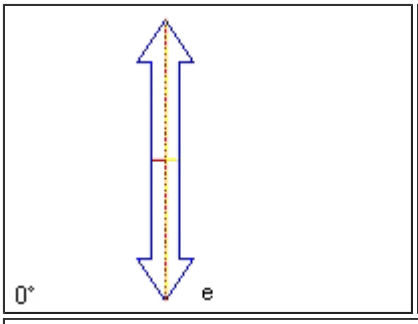


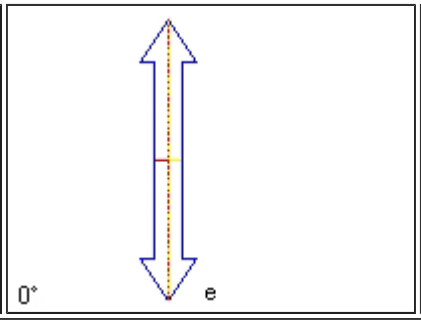



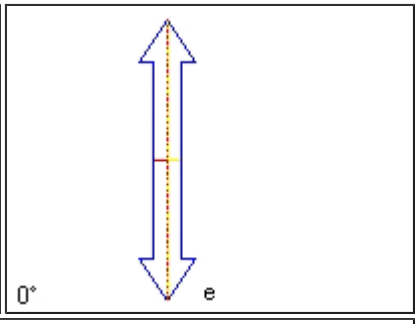




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 133 | 134 | 135 |
|---|---|---|

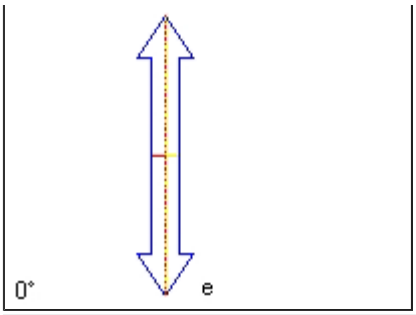


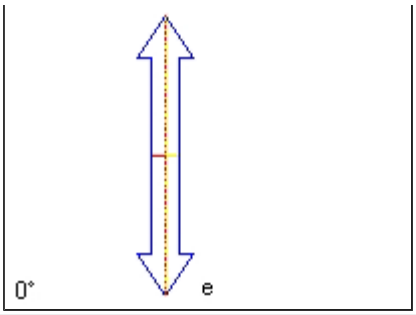



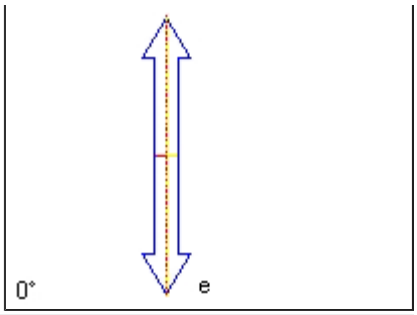




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 136 | 137 | 138 |
|---|---|---|

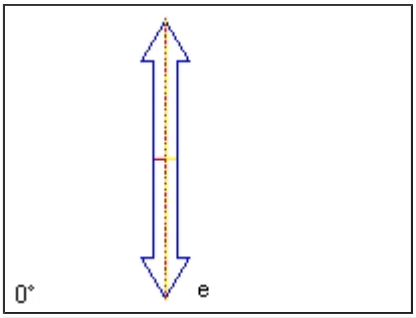


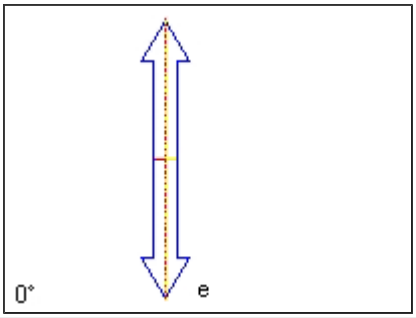



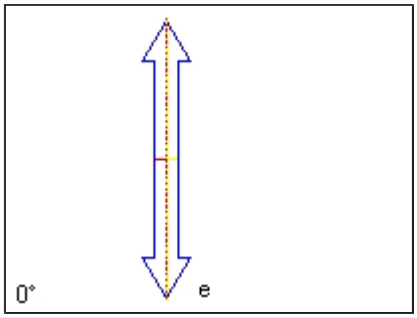




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 139 | 140 | 141 |
|---|---|---|

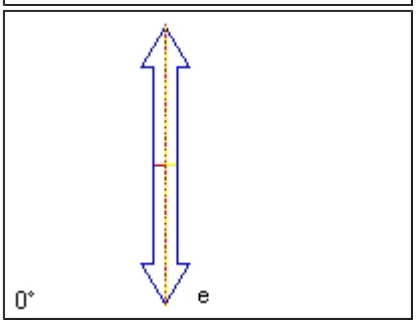


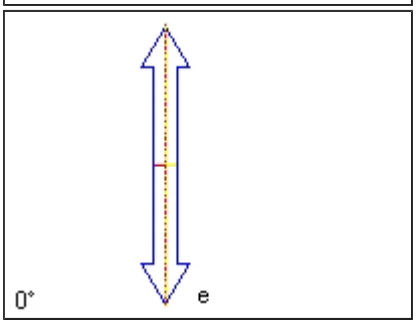



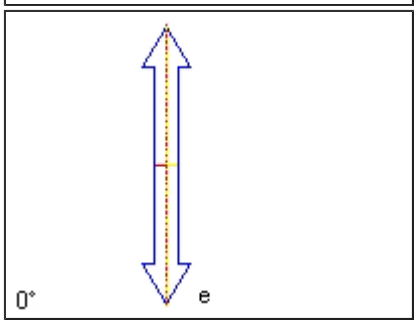




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 142 | B9253 | 144 |
|---|---|---|

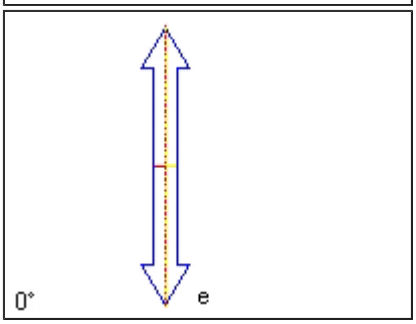


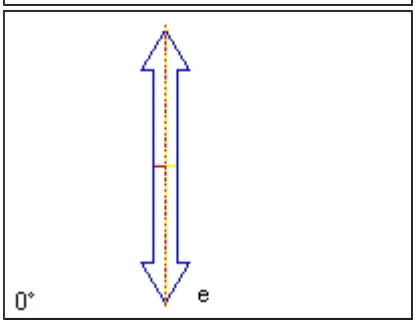



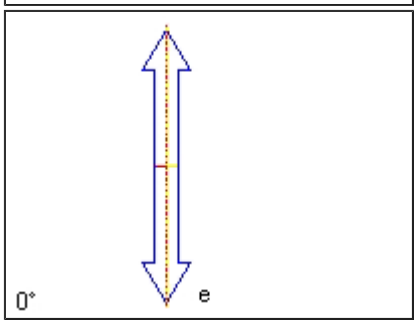




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 145 | 146 | 147 |
|---|---|---|

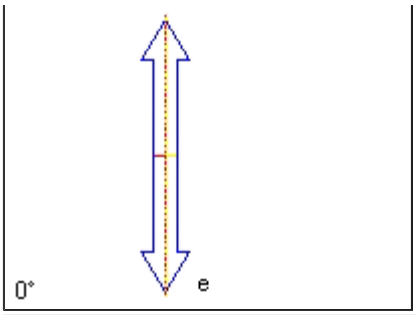


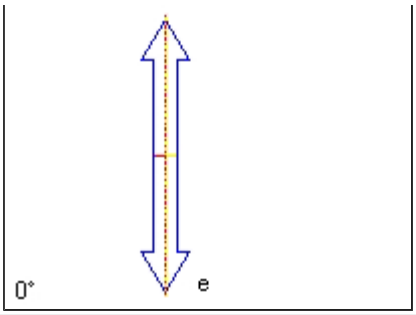



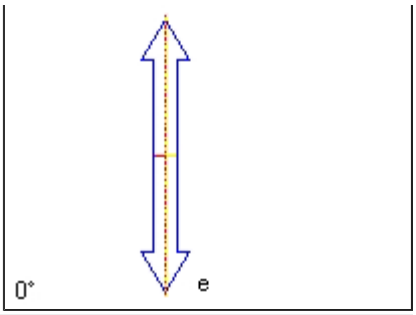




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 148 | 149 | 150 |
|---|---|---|

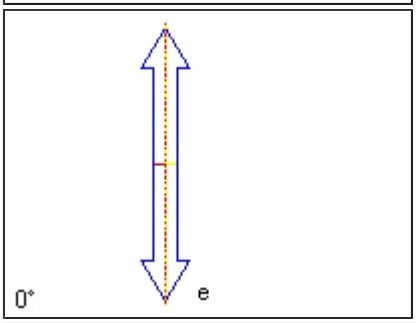


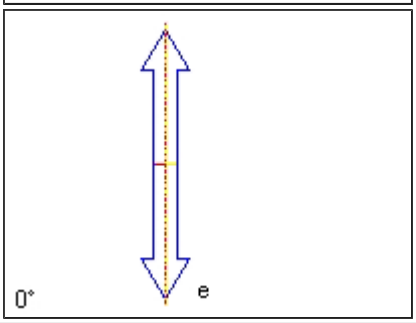



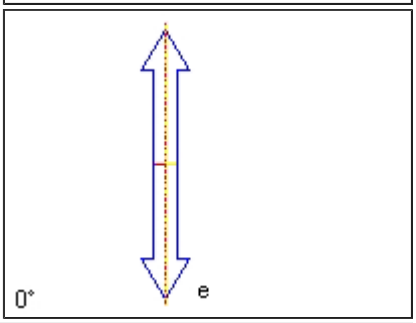




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 151 | 152 | 153 |
|---|---|---|

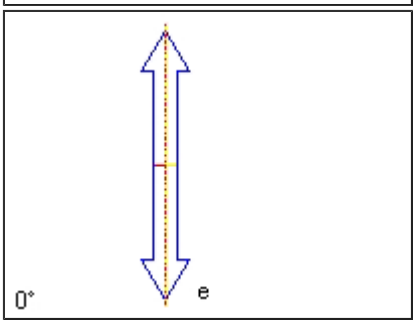


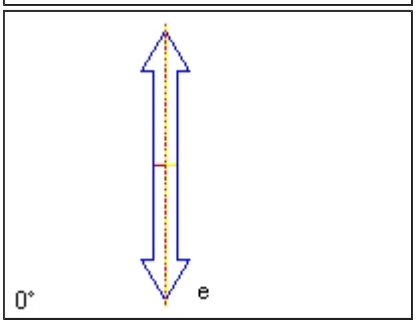



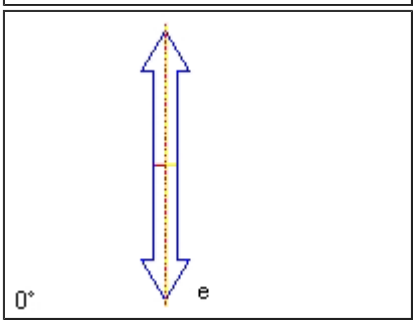




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 154 | 155 | 156 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 157 | 158 | 159 |
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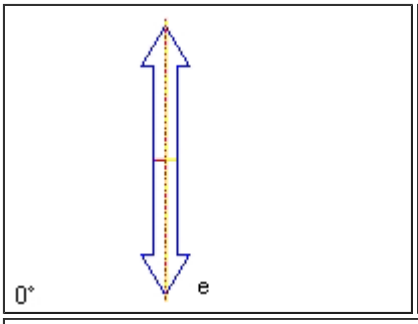
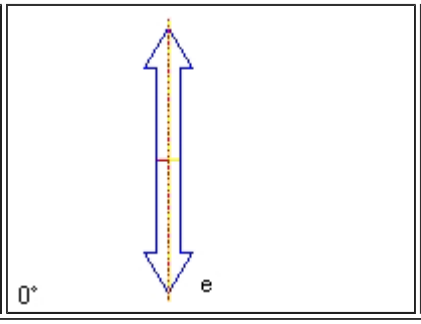
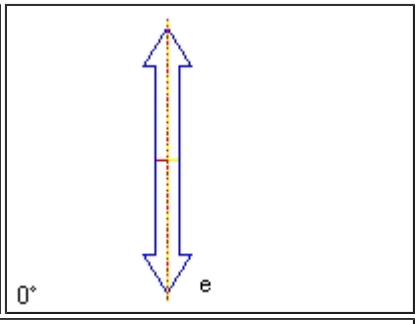
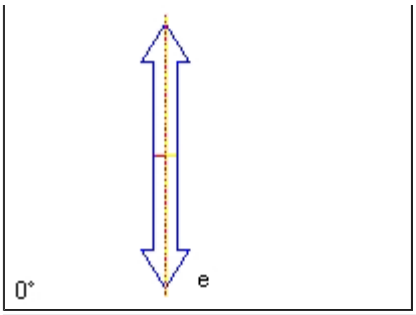


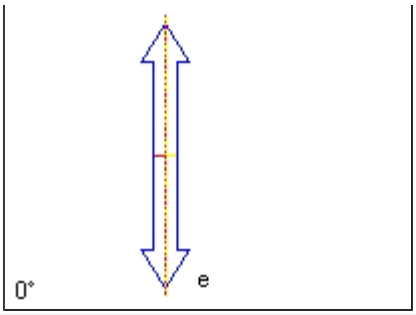



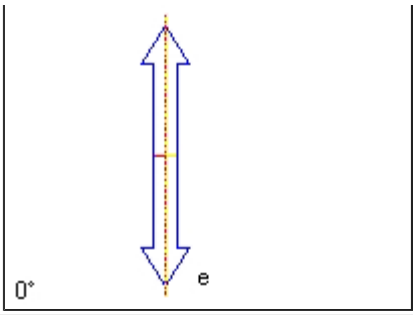




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 160 | SGT2W4 | 162 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 163 | 164 | 165 |
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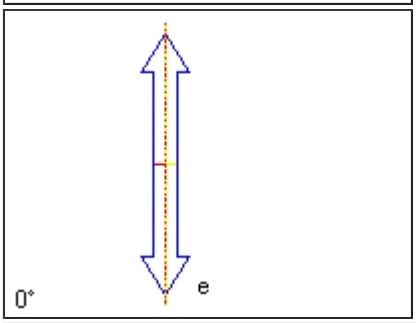
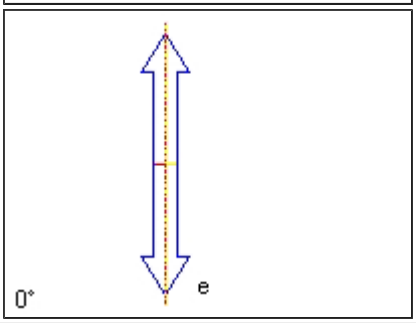
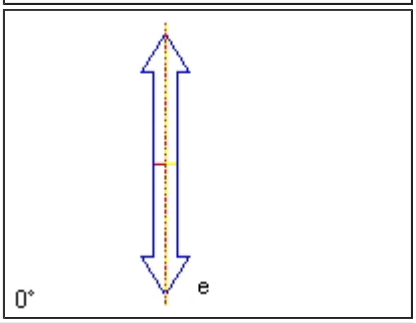
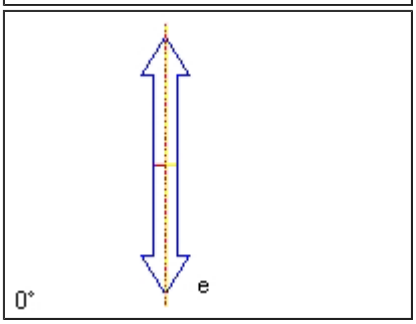


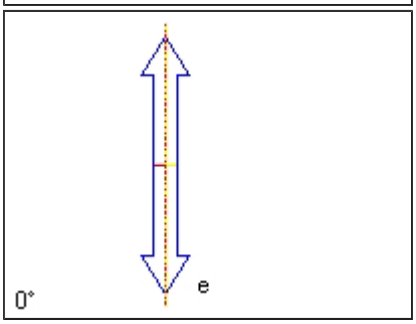



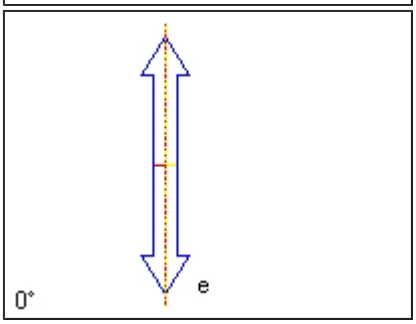




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 166 | 167 | 168 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 169 | 170 | 171 |
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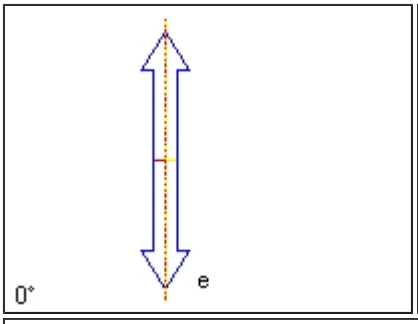
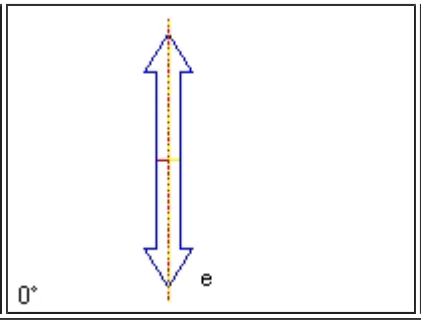
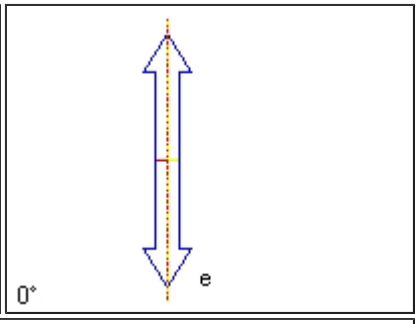
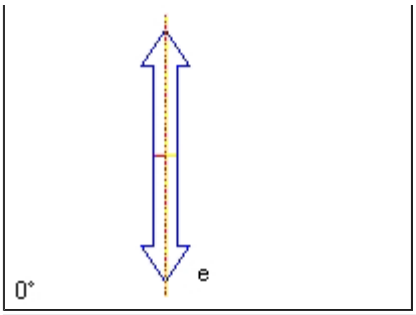


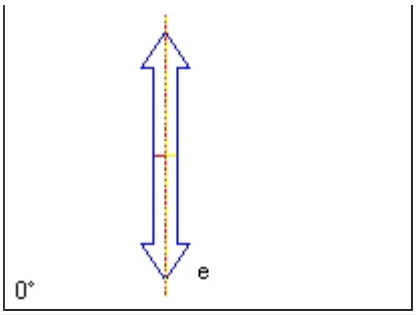



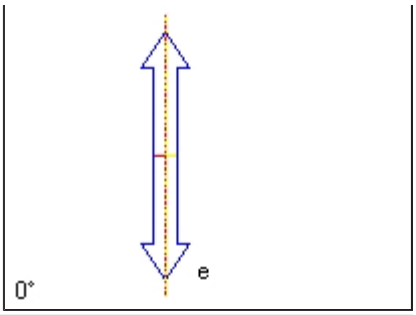




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 172 | 173 | 174 |
|---|---|---|

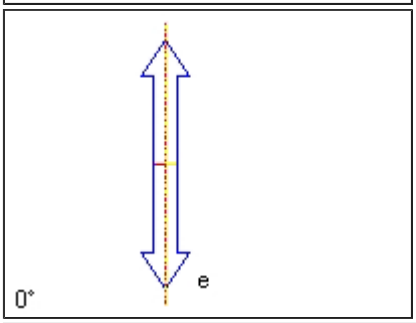


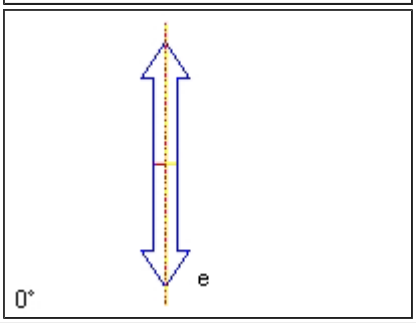



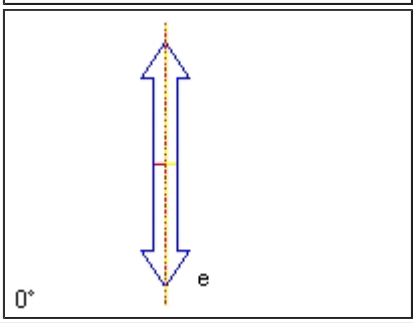




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 175 | 176 | 177 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 178 | 179 | 180 |
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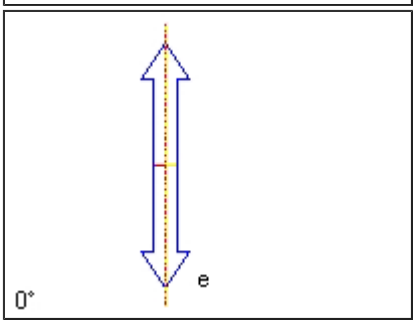


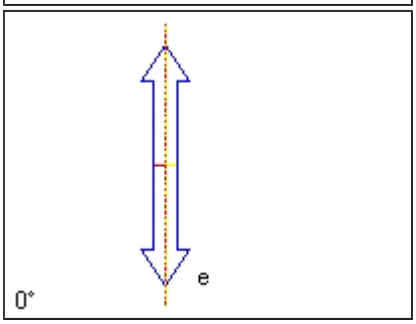


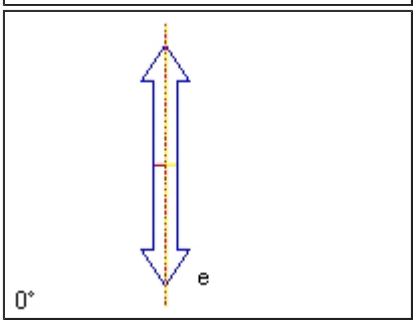


Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 181 | 182 | 183 |
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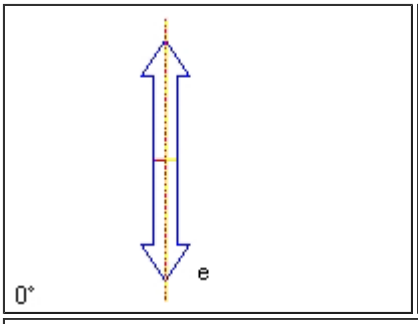
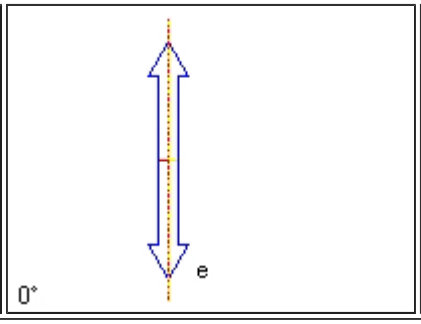
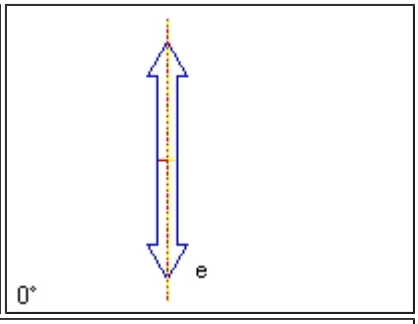
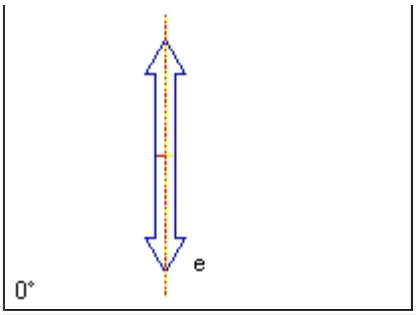


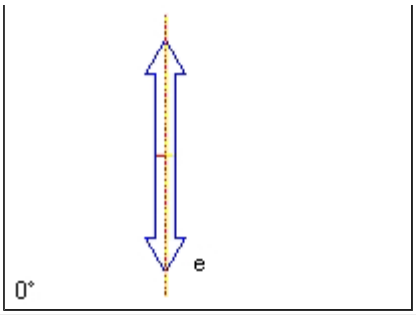



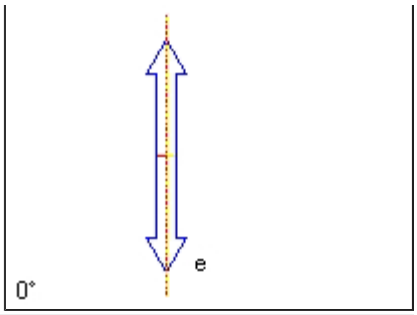




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 184 | 185 | 186 |
|---|---|---|

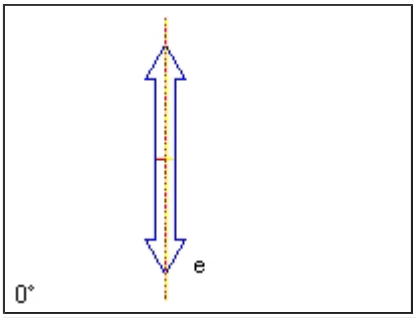


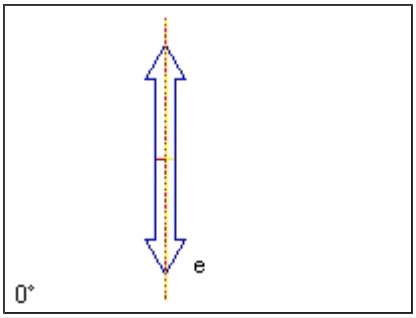



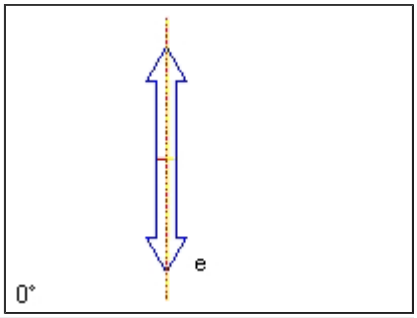




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 187 | 188 | 189 |
|---|---|---|

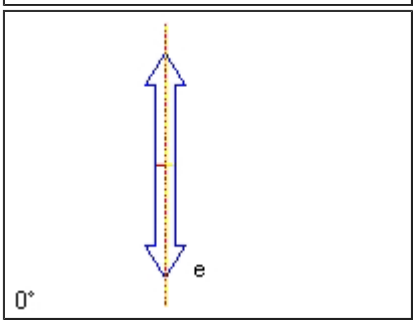


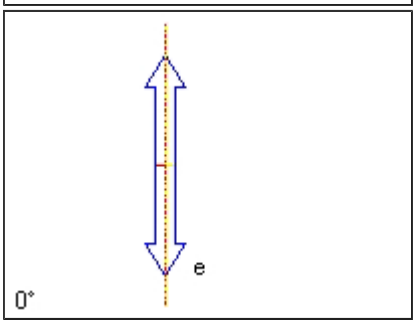



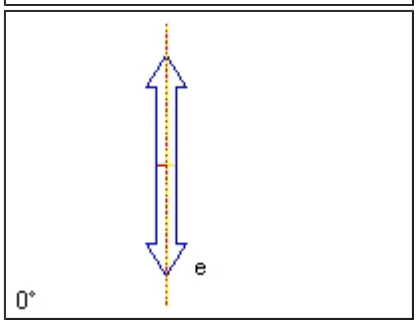




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 190 | 191 | 192 |
|---|---|---|

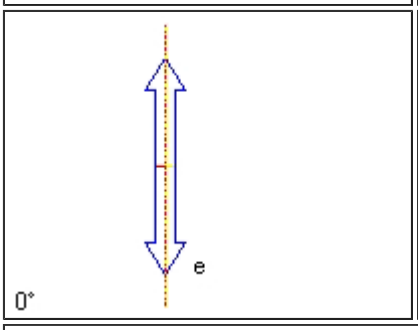


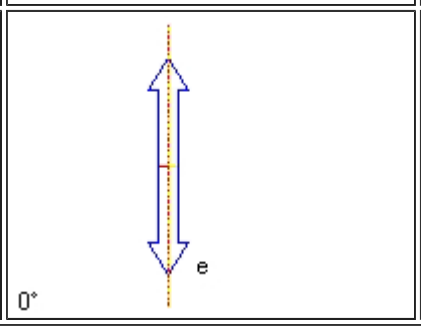



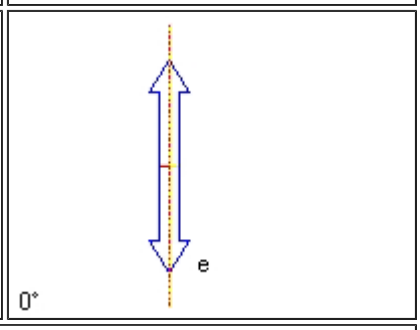




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 193 | 194 | 195 |
|---|---|---|

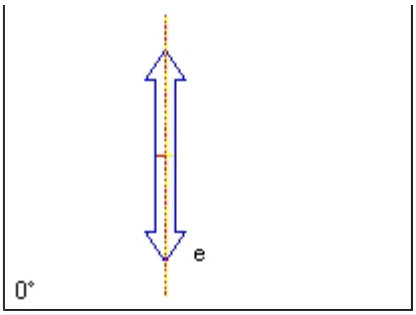


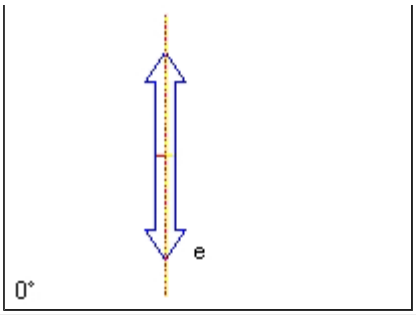



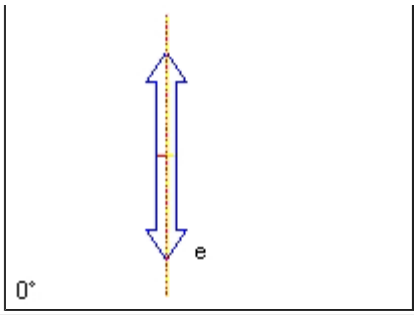




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 196 | 197 | 198 |
|---|---|---|

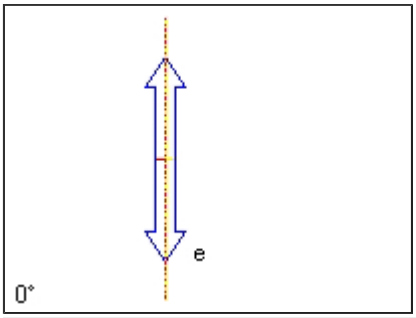


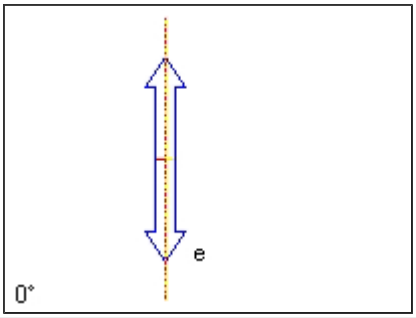



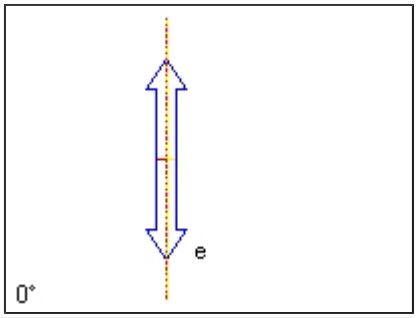




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 199 | 200 | 201 |
|---|---|---|

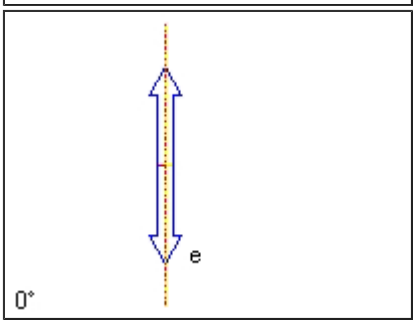


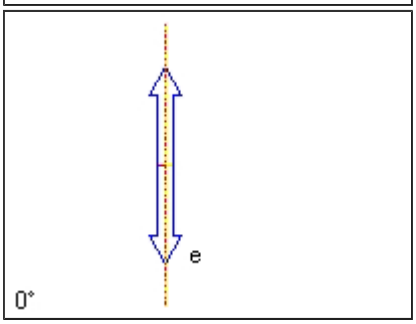



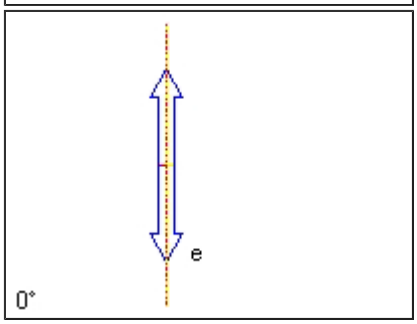




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 202 | 203 | 204 |
|---|---|---|

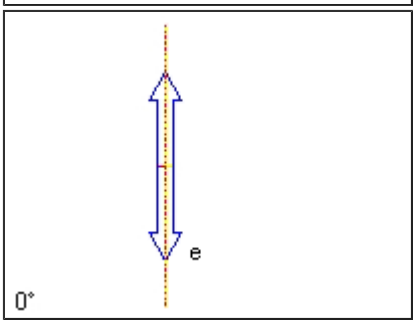


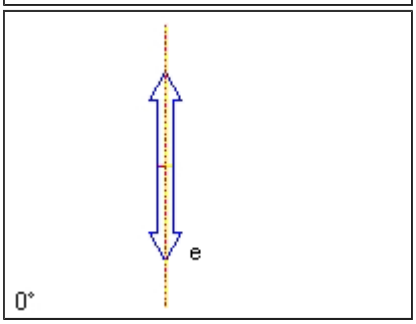



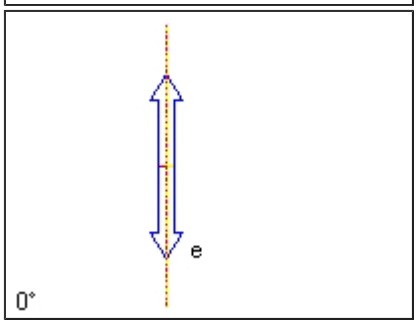




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 205 | 206 | 207 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 208 | SGT1W4 | 210 |
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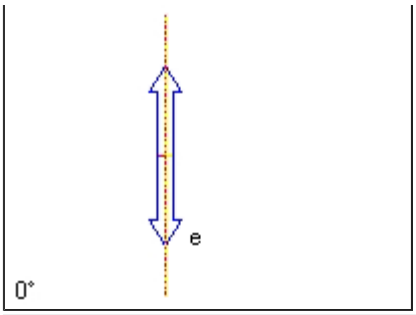
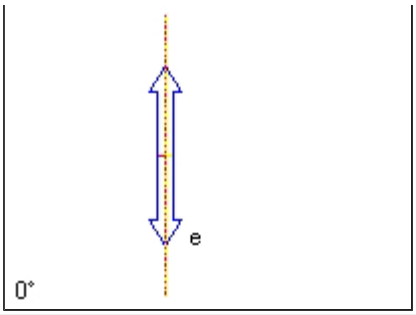
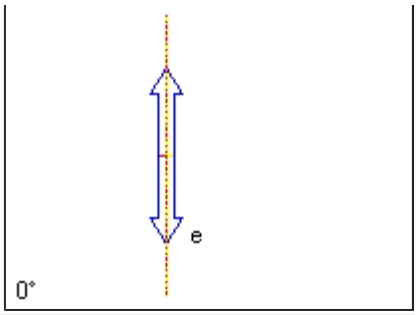
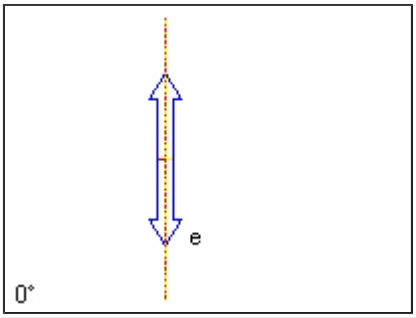


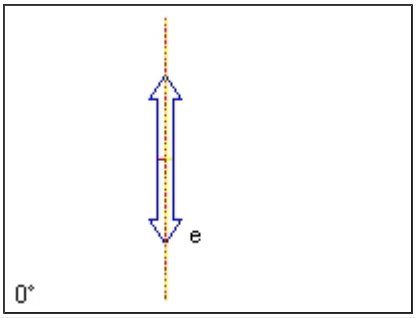



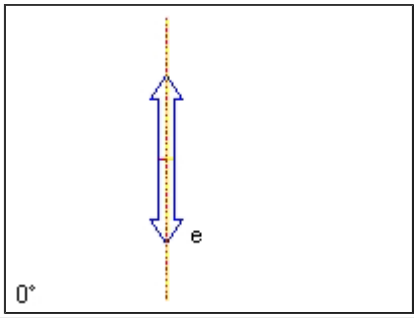




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 211 | 212 | 213 |
|---|---|---|

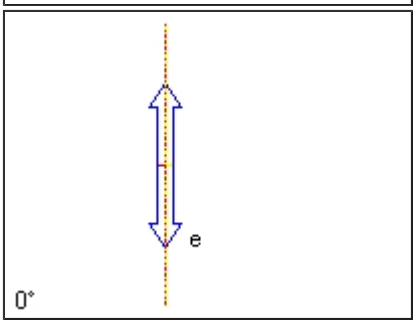


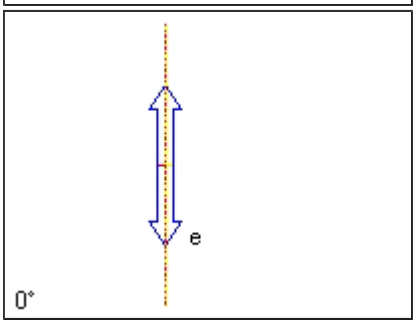



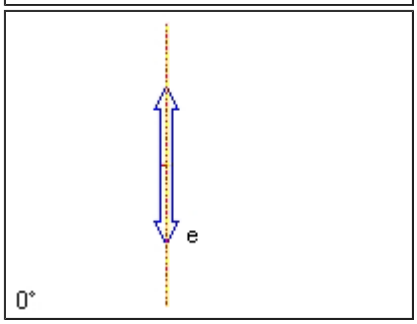




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 214 | 215 | 216 |
|---|---|---|

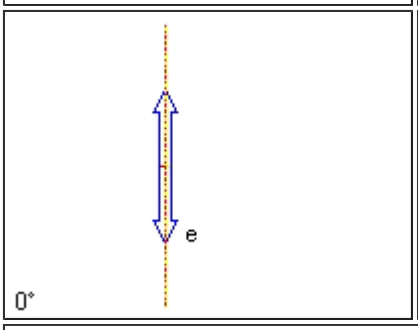


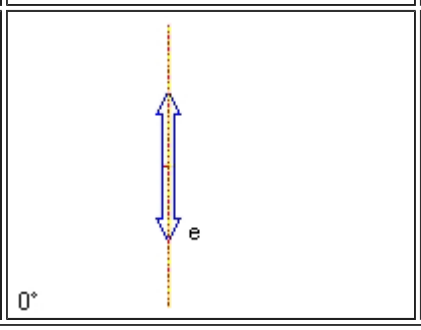



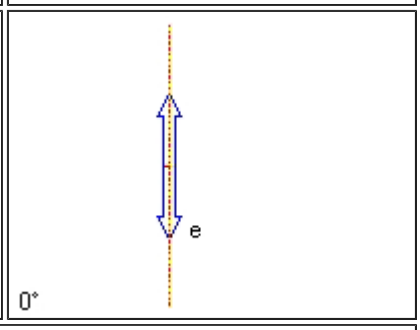




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 217 | COLL0018 | 219 |
|---|---|---|

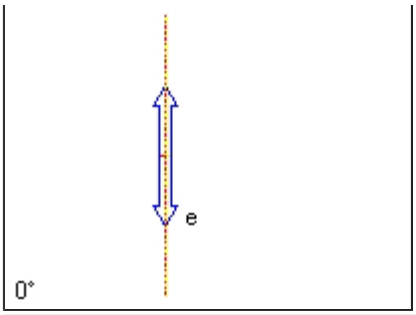


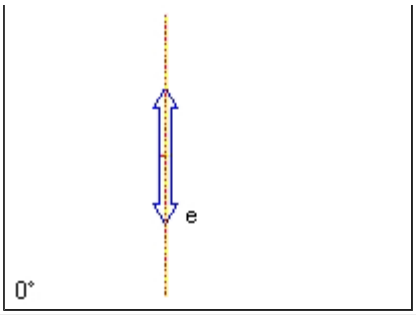



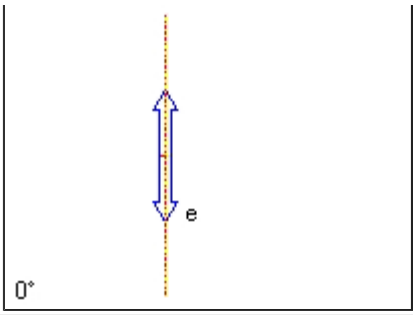




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 220 | 221 | 222 |
|---|---|---|

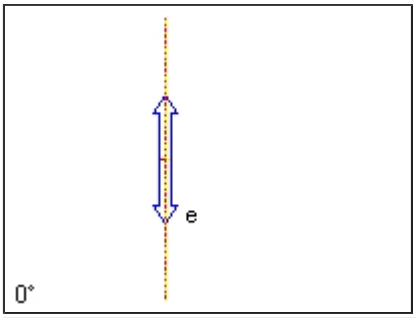


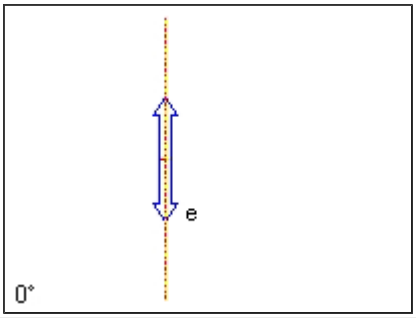



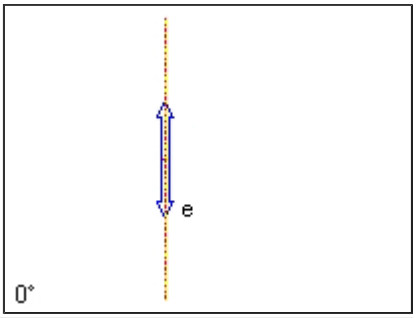




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 223 | 224 | 225 |
|---|---|---|

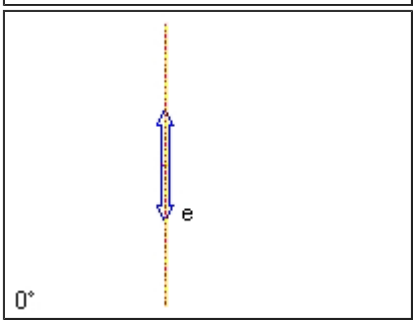


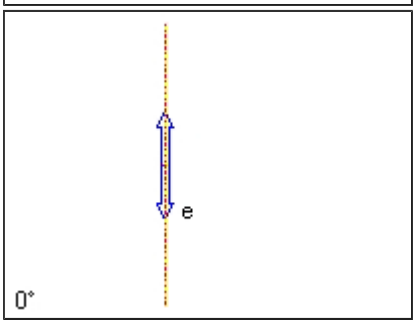



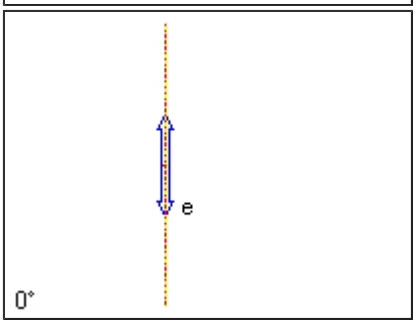




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 226 | 227 | 228 |
|---|---|---|

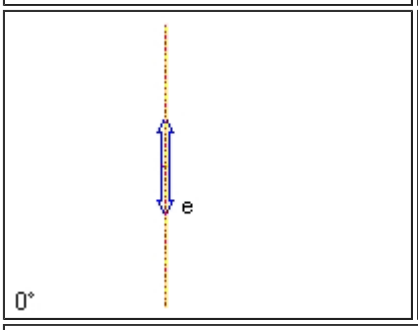


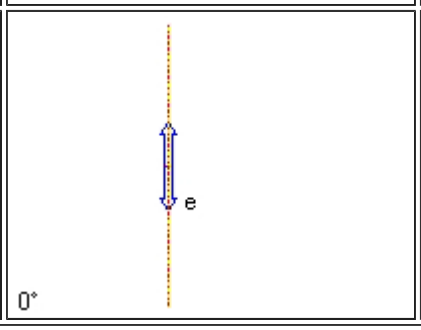



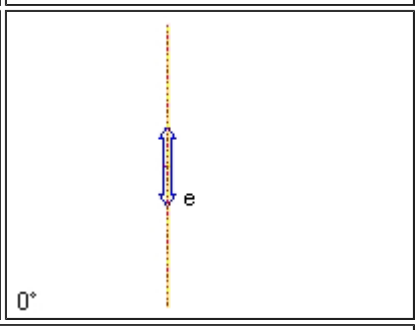




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 229 | 230 | 231 |
|---|---|---|

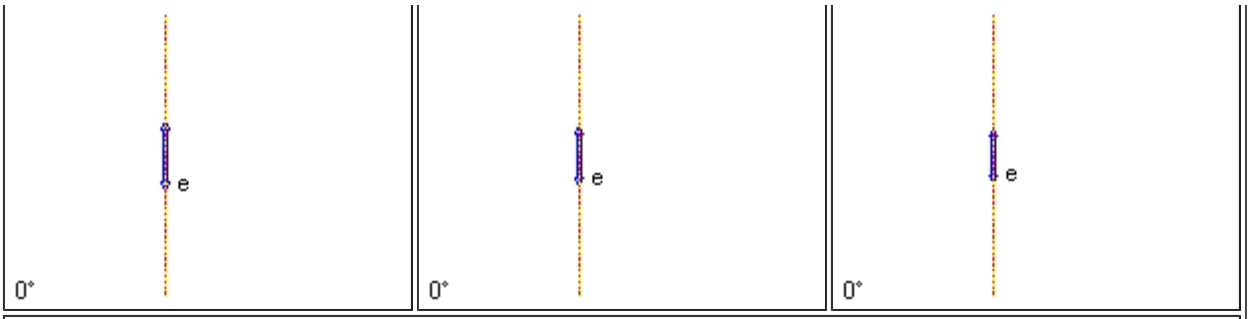


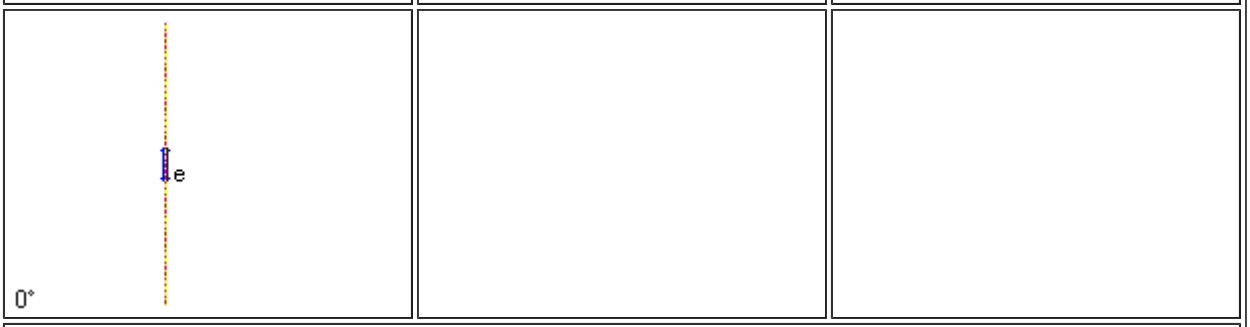

Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

| 232 | 233 | 234 |
|---|---|---|




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

**235**




Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ

Back to top

# Covariant Terms

## Adjustment performed in WGS-84

| From Point | To Point | | Components | A-posteriori Error (1.96σ) | Horiz. Precision (Ratio) | 3D Precision (Ratio) |
|---|---|---|---|---|---|---|
| 9252 | 1 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.500sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 1 | 2 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.223sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 2 | 3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.154sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 4 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.273sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 4 | 5 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.126sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 5 | 6 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.116sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 6 | 7 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.088sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 7 | 8 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.189sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 8 | 9 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.195sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 9 | 10 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.389sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 10 | 11 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.348sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 11 | 12 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 0.296sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 12 | 13 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.598sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 13 | 14 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.060sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 14 | 15 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.064sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 15 | 16 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.124sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 16 | 17 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.277sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 17 | 18 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.345sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 18 | 19 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.296sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 19 | 20 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.072sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 20 | 21 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.183sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 21 | 22 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.202sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 22 | 23 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.301sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 23 | 24 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.351sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 24 | 25 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.159sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 25 | 26 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.325sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 26 | 27 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.447sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 27 | 28 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.236sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 28 | 29 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.140sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 29 | 30 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.029sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 30 | 31 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.084sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 31 | 32 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.019sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 32 | 33 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.212sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 33 | 34 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.284sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 34 | 35 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.207sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 35 | 36 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.280sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 36 | 37 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.467sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 37 | 38 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.087sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 38 | 39 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 1.478sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 39 | 40 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.207sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 40 | 41 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.376sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 41 | 42 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.695sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 42 | 43 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.195sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 43 | 44 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.016sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 44 | SGT2W6 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.323sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| SGT2W6 | 46 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 0.302sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 46 | 47 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.415sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 47 | 48 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.449sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 48 | 49 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.291sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 49 | 50 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.253sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 50 | 51 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.146sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 51 | 52 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.908sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 52 | 53 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.207sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 53 | 54 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.505sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 54 | 55 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.310sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 55 | 56 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.179sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 56 | 57 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.202sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 57 | 58 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.324sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 58 | 59 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.121sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 59 | 60 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.081sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 60 | 61 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.268sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 61 | 62 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.188sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 62 | 63 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.028sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 63 | 64 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.150sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 64 | 65 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.552sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 65 | 66 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.245sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 66 | 67 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.037sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 67 | 68 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.262sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 68 | 69 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.029sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 69 | 70 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.108sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 70 | 71 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.153sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 71 | 72 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.092sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 72 | 73 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.651sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 73 | 74 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.153sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 74 | 75 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.121sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 75 | SGT2W5 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.174sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| SGT2W5 | 77 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.027sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 77 | 78 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.159sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 78 | 79 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.200sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 79 | 80 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 0.031sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 80 | 81 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.666sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 81 | 82 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.023sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 82 | 83 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.090sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 83 | 84 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.390sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 84 | A9253 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.030sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| A9253 | 86 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.784sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 86 | 87 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.538sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 87 | 88 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.114sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 88 | 89 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.029sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 89 | 90 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.018sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 90 | 91 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.559sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 91 | 92 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.229sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 92 | 93 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.514sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 93 | 94 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.131sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 94 | 95 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.297sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 95 | 96 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.131sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 96 | 97 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.209sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 97 | 98 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.341sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 98 | 99 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.222sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 99 | 100 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.603sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 100 | 101 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.269sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 101 | 102 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.218sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 102 | 103 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.121sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 103 | 104 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.352sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 104 | 105 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.114sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 105 | 106 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.445sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 106 | 107 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.047sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 107 | 108 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.132sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 108 | 109 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.316sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 109 | 110 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.260sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 110 | 111 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.231sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 111 | 112 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.158sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 112 | 113 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.538sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 113 | SGT1W5 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.503sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| SGT1W5 | 115 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.047sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 115 | 116 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.074sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 116 | 117 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.023sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 117 | 118 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.276sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 118 | 119 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.285sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 119 | 120 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.206sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 120 | 121 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.136sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 121 | 122 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.757sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 122 | 123 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 1.296sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 123 | 124 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.146sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 124 | 125 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.926sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 125 | 126 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.056sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 126 | 127 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.436sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 127 | 128 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.251sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 128 | 129 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.688sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 129 | 130 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.036sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 130 | 131 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 0.375sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 131 | 132 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.202sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 132 | 133 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.042sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 133 | 134 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.424sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 134 | 135 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.083sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 135 | 136 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.515sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 136 | 137 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.299sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 137 | 138 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.602sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 138 | 139 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.003sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 139 | 140 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.031sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 140 | 141 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.134sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 141 | 142 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.679sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 142 | B9253 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.780sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| B9253 | 144 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.038sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 144 | 145 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.120sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 145 | 146 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.008sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 146 | 147 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.348sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 147 | 148 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 0.139sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 148 | 149 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.659sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 149 | 150 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.208sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 150 | 151 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.189sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 151 | 152 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.650sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 152 | 153 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.368sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 153 | 154 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.424sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 154 | 155 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.554sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 155 | 156 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.174sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 156 | 157 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.047sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 157 | 158 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.486sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 158 | 159 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.122sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 159 | 160 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.198sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 160 | SGT2W4 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.231sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| SGT2W4 | 162 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.275sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 162 | 163 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.191sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 163 | 164 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.057sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 164 | 165 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.031sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 165 | 166 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.301sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 166 | 167 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.047sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 167 | 168 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.114sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 168 | 169 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.107sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 169 | 170 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.080sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 170 | 171 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.575sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 171 | 172 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.197sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 172 | 173 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.533sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 173 | 174 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.044sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 174 | 175 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.440sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 175 | 176 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.559sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 176 | 177 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.138sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 177 | 178 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.565sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 178 | 179 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.165sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 179 | 180 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.437sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 180 | 181 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.253sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 181 | 182 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.149sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 182 | 183 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.522sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 183 | 184 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.596sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 184 | 185 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.053sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 185 | 186 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.415sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 186 | 187 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.045sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 187 | 188 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.025sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 188 | 189 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.652sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 189 | 190 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.083sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 190 | 191 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.140sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 191 | 192 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.188sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 192 | 193 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.416sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 193 | 194 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.124sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 194 | 195 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.299sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 195 | 196 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.045sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 196 | 197 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.860sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 197 | 198 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.183sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 198 | 199 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.234sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 199 | 200 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.105sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 200 | 201 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.509sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 201 | 202 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.348sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 202 | 203 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.259sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 203 | 204 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.447sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 204 | 205 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.013sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 205 | 206 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.182sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 206 | 207 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.528sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 207 | 208 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.763sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 208 | SGT1W4 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.362sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| SGT1W4 | 210 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.806sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 210 | 211 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.139sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 211 | 212 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.051sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 212 | 213 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.360sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 213 | 214 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.248sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 214 | 215 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.214sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 215 | 216 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | -0.635sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 216 | 217 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.146sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 217 | COLL0018 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.061sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| COLL0018 | 219 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.377sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 219 | 220 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.027sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 220 | 221 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.317sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 221 | 222 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.044sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 222 | 223 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.733sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| 223 | 224 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.359sft | 0.010sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 224 | 225 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.138sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 225 | 226 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.309sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 226 | 227 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.176sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 227 | 228 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.158sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 228 | 229 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.086sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 229 | 230 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.177sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 230 | 231 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.089sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 231 | 232 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.127sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 232 | 233 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **ΔElev.** | 0.350sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 233 | 234 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.294sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 234 | 235 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.041sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |
| 235 | J598 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -1.708sft | 0.010sft | | |
| | | **Dist.** | ? | ? | | |

Back to top

# Points

### *Project : LINE7*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 1:56:42 PM 12/22/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD ,88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| L598 | ? | ? | 6.472 | |
| 1 | ? | ? | 7.789 | |
| 2 | ? | ? | 7.821 | |
| 3 | ? | ? | 7.783 | |
| 4 | ? | ? | 7.678 | |
| 5 | ? | ? | 8.092 | |
| 6 | ? | ? | 8.291 | |
| 7 | ? | ? | 8.102 | |
| 8 | ? | ? | 8.237 | |
| 9 | ? | ? | 8.344 | |
| 10 | ? | ? | 8.691 | |
| 11 | ? | ? | 7.672 | |
| SGT2W3 | ? | ? | 7.220 | |
| 13 | ? | ? | 8.134 | |
| 14 | ? | ? | 8.357 | |
| 15 | ? | ? | 8.518 | |
| 16 | ? | ? | 8.379 | |
| 17 | ? | ? | 8.040 | |
| 9247 | ? | ? | 8.092 | |

Back to top

# Level Report *(0007.DAT)*

## Contents



Back to top

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## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| L598 | 6.054sft | | | 6.472sft | 228.870sft | BM 1 | |
| 1 | | | 4.738sft | 7.788sft | 221.490sft | BM 1 | |
| | 4.858sft | | | | 226.800sft | BM 1 | |
| 2 | | | 4.827sft | 7.819sft | 225.230sft | BM 1 | |
| | 4.778sft | | | | 229.490sft | BM 1 | |
| 3 | | | 4.817sft | 7.780sft | 229.790sft | BM 1 | |
| | 4.661sft | | | | 233.430sft | BM 1 | |
| 4 | | | 4.767sft | 7.674sft | 232.090sft | BM 1 | |
| | 4.994sft | | | | 239.340sft | BM 1 | |
| 5 | | | 4.581sft | 8.087sft | 237.430sft | BM 1 | |
| | 5.188sft | | | | 228.510sft | BM 1 | |
| 6 | | | 4.990sft | 8.285sft | 224.570sft | BM 1 | |
| | 4.543sft | | | | 222.670sft | BM 1 | |
| 7 | | | 4.733sft | 8.095sft | 223.200sft | BM 1 | |
| | 5.076sft | | | | 229.920sft | BM 1 | |
| | | | 4.942sft | | 229.860sft | BM 1 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | | | | 8.229sft | | | |
| | 5.346sft | | | | 233.660sft | BM 1 | |
| 9 | | | 5.240sft | 8.335sft | 231.200sft | BM 1 | |
| | 4.852sft | | | | 229.030sft | BM 1 | |
| 10 | | | 4.506sft | 8.681sft | 228.540sft | BM 1 | |
| | 4.398sft | | | | 232.580sft | BM 1 | |
| 11 | | | 5.418sft | 7.661sft | 233.170sft | BM 1 | |
| | 5.407sft | | | | 59.810sft | BM 1 | |
| SGT2W3 | | | 5.860sft | 7.208sft | 65.580sft | BM 1 | |
| | 5.857sft | | | | 200.260sft | BM 1 | |
| 13 | | | 4.944sft | 8.121sft | 199.180sft | BM 1 | |
| | 5.567sft | | | | 222.240sft | BM 1 | |
| 14 | | | 5.345sft | 8.343sft | 223.230sft | BM 1 | |
| | 4.910sft | | | | 218.900sft | BM 1 | |
| 15 | | | 4.750sft | 8.503sft | 210.790sft | BM 1 | |
| | 4.700sft | | | | 226.120sft | BM 1 | |
| 16 | | | 4.840sft | 8.363sft | 225.260sft | BM 1 | |
| | 4.706sft | | | | 230.380sft | BM 1 | |
| 17 | | | 5.046sft | 8.023sft | 228.410sft | BM 1 | |
| | 5.266sft | | | | 195.640sft | BM 1 | |
| 9247 | | | 5.215sft | 8.074sft | 191.830sft | BM 1 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | L598 | 1 | ☒ | 1.316sft |
| LR2 | 1 | 2 | ☒ | 0.031sft |
| LR3 | 2 | 3 | ☒ | -0.039sft |
| LR4 | 3 | 4 | ☒ | -0.106sft |
| LR5 | 4 | 5 | ☒ | 0.413sft |
| LR6 | 5 | 6 | ☒ | 0.198sft |
| LR7 | 6 | 7 | ☒ | -0.190sft |
| LR8 | 7 | 8 | ☒ | 0.134sft |
| LR9 | 8 | 9 | ☒ | 0.106sft |
| LR10 | 9 | 10 | ☒ | 0.346sft |
| LR11 | 10 | 11 | ☒ | -1.020sft |
| LR12 | 11 | SGT2W3 | ☒ | -0.453sft |
| LR13 | SGT2W3 | 13 | ☒ | 0.913sft |
| LR14 | 13 | 14 | ☒ | 0.222sft |
| LR15 | 14 | 15 | ☒ | 0.160sft |
| LR16 | 15 | 16 | ☒ | -0.140sft |
| LR17 | 16 | 17 | ☒ | -0.340sft |
| LR18 | 17 | 9247 | ☒ | 0.051sft |

**Back to top**

# Network Adjustment Report

***Project : LINE7***

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 1:50:35 PM 12/22/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD ,88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

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## Adjustment Style Settings - 95% Confidence Limits

### Residual Tolerances

**To End Iterations** : 0.000033sft
**Final Convergence Cutoff** : 0.016404sft

### Covariance Display

**Horizontal**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96

**Three-Dimensional**
**Propagated Linear Error [E]** : U.S.
**Constant Term [C]** : 0.00000000sft
**Scale on Linear Error [S]** : 1.96
**Elevation Errors were used in the calculations.**

### Adjustment Controls

**Compute Correlations for Geoid** : False
**Horizontal and Vertical adjustment performed**

### Set-up Errors

**Terrestrial**
**Error in Height of Instrument** : 0.000sft
**Centering Error** : 0.000sft

Back to top

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## Statistical Summary

**Successful Adjustment in 1 iteration(s)**

**Network Reference Factor** : 0.61
**Chi Square Test (α=95%)** : PASS
**Degrees of Freedom** : 1.00

## Terrestrial Observation Statistics

**Reference Factor** : 0.61
**Redundancy Number (r)** : 1.00

**ΔElevations:** Reference Factor: 0.61 **(r):** 1.00

## Weighting Strategies

## Terrestrial Observations

**Default Scalar Applied to All Observations**

**Scalar** : 1.00

Back to top

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# Adjusted Coordinates

## Adjustment performed in WGS-84

**Number of Points** : 19
**Number of Constrained Points** : 2
**Elevation Only** : 2

## Adjusted Grid Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Northing | N error | Easting | E error | Elevation | e error | Fix |
|---|---|---|---|---|---|---|---|
| L598 | N/A | N/A | N/A | N/A | 6.472sft | 0.000sft | e |
| 1 | N/A | N/A | N/A | N/A | 7.789sft | 0.008sft | |
| 2 | N/A | N/A | N/A | N/A | 7.821sft | 0.011sft | |
| 3 | N/A | N/A | N/A | N/A | 7.783sft | 0.013sft | |
| 4 | N/A | N/A | N/A | N/A | 7.678sft | 0.015sft | |
| 5 | N/A | N/A | N/A | N/A | 8.092sft | 0.016sft | |
| 6 | N/A | N/A | N/A | N/A | 8.291sft | 0.017sft | |
| 7 | N/A | N/A | N/A | N/A | 8.102sft | 0.017sft | |
| 8 | N/A | N/A | N/A | N/A | 8.237sft | 0.018sft | |
| 9 | N/A | N/A | N/A | N/A | 8.344sft | 0.018sft | |
| 10 | N/A | N/A | N/A | N/A | 8.691sft | 0.018sft | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | N/A | N/A | N/A | N/A | 7.672sft | 0.017sft | |
| SGT2W3 | N/A | N/A | N/A | N/A | 7.220sft | 0.017sft | |
| 13 | N/A | N/A | N/A | N/A | 8.134sft | 0.016sft | |
| 14 | N/A | N/A | N/A | N/A | 8.357sft | 0.015sft | |
| 15 | N/A | N/A | N/A | N/A | 8.518sft | 0.013sft | |
| 16 | N/A | N/A | N/A | N/A | 8.379sft | 0.011sft | |
| 17 | N/A | N/A | N/A | N/A | 8.040sft | 0.008sft | |
| 9247 | N/A | N/A | N/A | N/A | 8.092sft | 0.000sft | e |

## Adjusted Geodetic Coordinates

**Errors are reported using 1.96σ.**

| Point Name | Latitude | N error | Longitude | E error | Height | h error | Fix |
|---|---|---|---|---|---|---|---|
| L598 | N/A | N/A | N/A | N/A | N/A | N/A | e |
| 1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 2 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 6 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 7 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 11 | N/A | N/A | N/A | N/A | N/A | N/A | |
| SGT2W3 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 13 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 14 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 15 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 16 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 17 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9247 | N/A | N/A | N/A | N/A | N/A | N/A | e |

## Coordinate Deltas

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight | ΔGeoid Separation |
|---|---|---|---|---|---|
| L598 | N/A | N/A | 0.000sft | N/A | N/A |
| 1 | N/A | N/A | 0.001sft | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| 2 | N/A | N/A | 0.002sft | N/A | N/A |
| 3 | N/A | N/A | 0.003sft | N/A | N/A |
| 4 | N/A | N/A | 0.004sft | N/A | N/A |
| 5 | N/A | N/A | 0.005sft | N/A | N/A |
| 6 | N/A | N/A | 0.006sft | N/A | N/A |
| 7 | N/A | N/A | 0.007sft | N/A | N/A |
| 8 | N/A | N/A | 0.008sft | N/A | N/A |
| 9 | N/A | N/A | 0.009sft | N/A | N/A |
| 10 | N/A | N/A | 0.010sft | N/A | N/A |
| 11 | N/A | N/A | 0.011sft | N/A | N/A |
| SGT2W3 | N/A | N/A | 0.012sft | N/A | N/A |
| 13 | N/A | N/A | 0.013sft | N/A | N/A |
| 14 | N/A | N/A | 0.014sft | N/A | N/A |
| 15 | N/A | N/A | 0.015sft | N/A | N/A |
| 16 | N/A | N/A | 0.016sft | N/A | N/A |
| 17 | N/A | N/A | 0.017sft | N/A | N/A |
| 9247 | N/A | N/A | 0.000sft | N/A | N/A |

Back to top

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# Control Coordinate Comparisons

**Values shown are control coord minus adjusted coord.**

| Point Name | ΔNorthing | ΔEasting | ΔElevation | ΔHeight |
|---|---|---|---|---|
| L598 | N/A | N/A | N/A | N/A |
| 9247 | N/A | N/A | N/A | N/A |

Back to top

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# Adjusted Observations

## Adjustment performed in WGS-84

## Terrestrial Observations

**Terrestrial Transformation Group**: <Terr. Default>

**Number of Observations** : 18
**Number of Outliers** : 18

**Observation Adjustment (Critical Tau = 0.00). Any outliers are in red.**

| Obs. ID | From | To | | Observation | A-posteriori Error (1.96σ) | Residual | Stand. Resid. |
|---|---|---|---|---|---|---|---|
| LR2 Outlier | 1 | 2 | ΔElev. | 0.032sft | 0.008sft | 0.001sft | 1.00 |
| LR12 Outlier | 11 | SGT2W3 | ΔElev. | -0.452sft | 0.008sft | 0.001sft | 1.00 |
| LR15 Outlier | 14 | 15 | ΔElev. | 0.161sft | 0.008sft | 0.001sft | 1.00 |
| LR3 Outlier | 2 | 3 | ΔElev. | -0.038sft | 0.008sft | 0.001sft | 1.00 |
| LR1 Outlier | L598 | 1 | ΔElev. | 1.317sft | 0.008sft | 0.001sft | 1.00 |
| LR4 Outlier | 3 | 4 | ΔElev. | -0.105sft | 0.008sft | 0.001sft | 1.00 |
| LR11 Outlier | 10 | 11 | ΔElev. | -1.019sft | 0.008sft | 0.001sft | 1.00 |
| LR5 Outlier | 4 | 5 | ΔElev. | 0.414sft | 0.008sft | 0.001sft | 1.00 |
| LR6 Outlier | 5 | 6 | ΔElev. | 0.199sft | 0.008sft | 0.001sft | 1.00 |
| LR8 Outlier | 7 | 8 | ΔElev. | 0.135sft | 0.008sft | 0.001sft | 1.00 |
| LR9 Outlier | 8 | 9 | ΔElev. | 0.107sft | 0.008sft | 0.001sft | 1.00 |
| LR14 Outlier | 13 | 14 | ΔElev. | 0.223sft | 0.008sft | 0.001sft | 1.00 |
| LR13 Outlier | SGT2W3 | 13 | ΔElev. | 0.914sft | 0.008sft | 0.001sft | 1.00 |
| LR10 Outlier | 9 | 10 | ΔElev. | 0.347sft | 0.008sft | 0.001sft | 1.00 |
| LR17 Outlier | 16 | 17 | ΔElev. | -0.339sft | 0.008sft | 0.001sft | 1.00 |
| LR18 Outlier | 17 | 9247 | ΔElev. | 0.052sft | 0.008sft | 0.001sft | 1.00 |
| LR7 Outlier | 6 | 7 | ΔElev. | -0.189sft | 0.008sft | 0.001sft | 1.00 |
| LR16 Outlier | 15 | 16 | ΔElev. | -0.139sft | 0.008sft | 0.001sft | 1.00 |

Back to top

# Histograms of Standardized Residuals

Histogram for C:\Trimble Geomatics Office\Projects\LINE7

Back to top

# Point Error Ellipses

| 1 | 2 | 3 |
|---|---|---|
| Error Ellipse for 1 | Error Ellipse for 2 | Error Ellipse for 3 |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **4** | **5** | **6** |
| Error Ellipse for 4 | Error Ellipse for 5 | Error Ellipse for 6 |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **7** | **8** | **9** |
| Error Ellipse for 7 | Error Ellipse for 8 | Error Ellipse for 9 |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **10** | **11** | **SGT2W3** |
| Error Ellipse for 10 | Error Ellipse for 11 | Error Ellipse for SGT2W3 |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **13** | **14** | **15** |
| Error Ellipse for 13 | Error Ellipse for 14 | Error Ellipse for 15 |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |
| **16** | **17** | |
| Error Ellipse for 16 | Error Ellipse for 17 | Error Ellipse for |
| Tick Size: 0.0001sft Horizontal Bivariate Scalar: 2.45σ Vertical Univariate Scalar: 1.96σ | | |

Back to top

# Covariant Terms

## Adjustment performed in WGS-84

| From Point | To Point | | Components | A-posteriori Error (1.96σ) | Horiz. Precision (Ratio) | 3D Precision (Ratio) |
|---|---|---|---|---|---|---|
| L598 | 1 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ΔElev. | 1.317sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 1 | 2 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.032sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 2 | 3 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.038sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 3 | 4 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.105sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 4 | 5 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.414sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 5 | 6 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.199sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 6 | 7 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | -0.189sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 7 | 8 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.135sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| 8 | 9 | Az. | ? | ? | 1:0 | 1:0 |
| | | ΔHt. | ? | ? | | |
| | | ΔElev. | 0.107sft | 0.008sft | | |
| | | Dist. | ? | ? | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | 10 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.347sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 10 | 11 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -1.019sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 11 | SGT2W3 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.452sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| SGT2W3 | 13 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.914sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 13 | 14 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.223sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 14 | 15 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | 0.161sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 15 | 16 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.139sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 16 | 17 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | **ΔElev.** | -0.339sft | 0.008sft | | |
| | | **Dist.** | ? | ? | | |
| 17 | 9247 | **Az.** | ? | ? | 1:0 | 1:0 |
| | | **ΔHt.** | ? | ? | | |
| | | | | | | |

| | | | | |
|---|---|---|---|---|
| | | **ΔElev.** | 0.052sft | 0.008sft |
| | | **Dist.** | ? | ? |

Back to top

# Points

### *Project : LINE8*

| | | | |
|---|---|---|---|
| **User name** | Fred | **Date & Time** | 3:49:41 PM 12/22/2004 |
| **Coordinate System** | US State Plane 1983 | **Zone** | Florida East 0901 |
| **Project Datum** | NAD 1983 (Conus) | | |
| **Vertical Datum** | NAVD '88 | **Geoid Model** | GEOID99 (Conus) |
| **Coordinate Units** | US survey feet | | |
| **Distance Units** | US survey feet | | |
| **Height Units** | US survey feet | | |

Point listing

| Name | Northing | Easting | Adjusted Elevation | Feature Code |
|---|---|---|---|---|
| 9247 | ? | ? | 8.092 | |
| 1 | ? | ? | 8.347 | |
| 2 | ? | ? | 8.363 | |
| 3 | ? | ? | 8.672 | |
| 4 | ? | ? | 8.846 | |
| 5 | ? | ? | 8.828 | |
| 6 | ? | ? | 8.732 | |
| 7 | ? | ? | 8.416 | |
| 8 | ? | ? | 8.767 | |
| 9 | ? | ? | 9.674 | |
| 10 | ? | ? | 9.348 | |
| 11 | ? | ? | 8.923 | |
| 12 | ? | ? | 8.792 | |
| 13 | ? | ? | 8.338 | |
| 14 | ? | ? | 8.749 | |
| 15 | ? | ? | 8.917 | |
| 16 | ? | ? | 9.149 | |
| 17 | ? | ? | 8.682 | |
| 18 | ? | ? | 8.862 | |
| 19 | ? | ? | 9.073 | |
| 20 | ? | ? | 8.593 | |
| 21 | ? | ? | 8.607 | |
| SGT2W2 | ? | ? | 9.271 | |
| 23 | ? | ? | 8.909 | |
| 24 | ? | ? | 8.787 | |
| 25 | ? | ? | 8.715 | |
| 26 | ? | ? | 8.915 | |
| 27 | ? | ? | 9.369 | |
| 28 | ? | ? | 9.574 | |
| 29 | ? | ? | 9.535 | |
| 30 | ? | ? | 9.725 | |
| 31 | ? | ? | 9.584 | |
| 32 | ? | ? | 9.400 | |
| 33 | ? | ? | 9.902 | |
| 34 | ? | ? | 8.892 | |
| SGT2W1 | ? | ? | 9.555 | |
| 36 | ? | ? | 9.203 | |
| 37 | ? | ? | 9.561 | |
| 38 | ? | ? | 9.308 | |
| 39 | ? | ? | 9.849 | |
| 40 | ? | ? | 9.624 | |
| 41 | ? | ? | 9.562 | |
| 42 | ? | ? | 9.308 | |
| 43 | ? | ? | 9.095 | |
| 44 | ? | ? | 8.903 | |
| 45 | ? | ? | 9.230 | |
| 46 | ? | ? | 9.165 | |
| 47 | ? | ? | 8.680 | |
| 48 | ? | ? | 8.705 | |
| 49 | ? | ? | 9.070 | |
| 50 | ? | ? | 8.858 | |
| 51 | ? | ? | 9.226 | |
| 52 | ? | ? | 9.436 | |
| 53 | ? | ? | 9.730 | |
| 54 | ? | ? | 9.547 | |
| 55 | ? | ? | 9.338 | |
| 56 | ? | ? | 8.949 | |

| | | | |
|---|---|---|---|
| 57 | ? | ? | 8.546 |
| 58 | ? | ? | 8.603 |
| 59 | ? | ? | 8.580 |
| 60 | ? | ? | 8.586 |
| 61 | ? | ? | 8.458 |
| 62 | ? | ? | 8.656 |
| 63 | ? | ? | 8.896 |
| 64 | ? | ? | 9.158 |
| 65 | ? | ? | 9.579 |
| 66 | ? | ? | 9.598 |
| 67 | ? | ? | 9.658 |
| 68 | ? | ? | 9.986 |
| 69 | ? | ? | 10.084 |
| 70 | ? | ? | 10.901 |
| 71 | ? | ? | 9.795 |
| 72 | ? | ? | 9.260 |
| 73 | ? | ? | 9.155 |
| 74 | ? | ? | 9.128 |
| 75 | ? | ? | 10.098 |
| 76 | ? | ? | 9.789 |
| 77 | ? | ? | 10.571 |
| 78 | ? | ? | 9.915 |
| 79 | ? | ? | 10.208 |
| 80 | ? | ? | 9.842 |
| 81 | ? | ? | 9.901 |
| 82 | ? | ? | 8.863 |
| 83 | ? | ? | 9.509 |
| 84 | ? | ? | 9.209 |
| SGT1W1 | ? | ? | 9.233 |
| 86 | ? | ? | 9.256 |
| 87 | ? | ? | 9.483 |
| 88 | ? | ? | 8.908 |
| 89 | ? | ? | 9.836 |
| 90 | ? | ? | 9.788 |
| 91 | ? | ? | 10.243 |
| 92 | ? | ? | 9.485 |
| 93 | ? | ? | 10.014 |
| 94 | ? | ? | 9.886 |
| 95 | ? | ? | 10.331 |
| 96 | ? | ? | 9.514 |
| 97 | ? | ? | 9.164 |
| 98 | ? | ? | 9.429 |
| 99 | ? | ? | 9.949 |
| 100 | ? | ? | 10.896 |
| 101 | ? | ? | 10.188 |
| 102 | ? | ? | 10.227 |
| 103 | ? | ? | 10.183 |
| 104 | ? | ? | 10.276 |
| 105 | ? | ? | 10.028 |
| 106 | ? | ? | 10.096 |
| 107 | ? | ? | 10.206 |
| SGT1W2 | ? | ? | 10.197 |
| 109 | ? | ? | 10.255 |
| 110 | ? | ? | 10.271 |
| 111 | ? | ? | 10.181 |
| 112 | ? | ? | 10.065 |
| 113 | ? | ? | 10.178 |
| 114 | ? | ? | 9.811 |
| 115 | ? | ? | 9.480 |
| 116 | ? | ? | 9.595 |
| 117 | ? | ? | 9.970 |
| 118 | ? | ? | 10.672 |
| 119 | ? | ? | 10.214 |
| 120 | ? | ? | 10.213 |
| 121 | ? | ? | 9.940 |
| 122 | ? | ? | 10.350 |
| 123 | ? | ? | 10.723 |
| 124 | ? | ? | 10.761 |
| 125 | ? | ? | 10.947 |
| 126 | ? | ? | 11.273 |
| 127 | ? | ? | 11.843 |
| H598 | ? | ? | 11.267 |

**Back to top**

# Level Report *(0008.DAT)*

## Contents



Back to top

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## Leveling Data

| Station Points | BS | IS | FS | Elevation | Distance | Description | Stakeout Deltas |
|---|---|---|---|---|---|---|---|
| 9247 | 5.220sft | | | 8.092sft | 230.740sft | BM 1 | |
| 1 | | | 4.965sft | 8.347sft | 230.020sft | BM 1 | |
| | 4.844sft | | | | 235.400sft | BM 1 | |
| 2 | | | 4.828sft | 8.363sft | 236.450sft | BM 1 | |
| | 4.644sft | | | | 232.640sft | BM 1 | |
| 3 | | | 4.335sft | 8.672sft | 231.330sft | BM 1 | |
| | 4.831sft | | | | 231.400sft | BM 1 | |
| 4 | | | 4.657sft | 8.846sft | 229.300sft | BM 1 | |
| | 5.108sft | | | | 229.130sft | BM 1 | |
| 5 | | | 5.126sft | 8.828sft | 229.490sft | BM 1 | |
| | 5.029sft | | | | 230.580sft | BM 1 | |
| 6 | | | 5.125sft | 8.732sft | 230.080sft | BM 1 | |
| | 5.187sft | | | | 230.940sft | BM 1 | |
| 7 | | | 5.503sft | 8.416sft | 230.510sft | BM 1 | |
| | 5.184sft | | | | 228.740sft | BM 1 | |
| | | | 4.833sft | | 229.430sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 8 | | | | 8.767sft | | | |
| | 5.821sft | | | | 231.500sft | BM 1 | |
| 9 | | | 4.914sft | 9.674sft | 230.770sft | BM 1 | |
| | 4.864sft | | | | 230.350sft | BM 1 | |
| 10 | | | 5.190sft | 9.348sft | 230.350sft | BM 1 | |
| | 5.097sft | | | | 224.210sft | BM 1 | |
| 11 | | | 5.522sft | 8.923sft | 224.870sft | BM 1 | |
| | 4.842sft | | | | 231.430sft | BM 1 | |
| 12 | | | 4.973sft | 8.792sft | 231.200sft | BM 1 | |
| | 4.836sft | | | | 247.670sft | BM 1 | |
| 13 | | | 5.290sft | 8.338sft | 247.340sft | BM 1 | |
| | 5.171sft | | | | 235.100sft | BM 1 | |
| 14 | | | 4.760sft | 8.749sft | 234.840sft | BM 1 | |
| | 4.947sft | | | | 225.820sft | BM 1 | |
| 15 | | | 4.779sft | 8.917sft | 227.460sft | BM 1 | |
| | 4.806sft | | | | 227.160sft | BM 1 | |
| 16 | | | 4.574sft | 9.149sft | 227.590sft | BM 1 | |
| | 4.766sft | | | | 229.860sft | BM 1 | |
| 17 | | | 5.233sft | 8.682sft | 229.590sft | BM 1 | |
| | 5.003sft | | | | 53.810sft | BM 1 | |
| 18 | | | 4.823sft | 8.862sft | 55.120sft | BM 1 | |
| | 4.789sft | | | | 234.550sft | BM 1 | |
| 19 | | | 4.578sft | 9.073sft | 232.840sft | BM 1 | |
| | 5.052sft | | | | 232.870sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 20 | | | 5.532sft | 8.593sft | 232.410sft | BM 1 | |
| | 4.564sft | | | | 223.330sft | BM 1 | |
| 21 | | | 4.550sft | 8.607sft | 222.570sft | BM 1 | |
| | 3.880sft | | | | 138.320sft | BM 1 | |
| SGT2W2 | | | 3.216sft | 9.271sft | 141.370sft | BM 1 | |
| | 4.738sft | | | | 161.580sft | BM 1 | |
| 23 | | | 5.100sft | 8.909sft | 160.830sft | BM 1 | |
| | 5.126sft | | | | 232.610sft | BM 1 | |
| 24 | | | 5.248sft | 8.787sft | 231.660sft | BM 1 | |
| | 5.280sft | | | | 234.420sft | BM 1 | |
| 25 | | | 5.352sft | 8.715sft | 231.820sft | BM 1 | |
| | 5.049sft | | | | 224.150sft | BM 1 | |
| 26 | | | 4.849sft | 8.915sft | 223.720sft | BM 1 | |
| | 5.081sft | | | | 227.200sft | BM 1 | |
| 27 | | | 4.627sft | 9.369sft | 227.560sft | BM 1 | |
| | 4.944sft | | | | 226.670sft | BM 1 | |
| 28 | | | 4.739sft | 9.574sft | 226.210sft | BM 1 | |
| | 4.746sft | | | | 219.620sft | BM 1 | |
| 29 | | | 4.785sft | 9.535sft | 221.060sft | BM 1 | |
| | 5.222sft | | | | 219.190sft | BM 1 | |
| 30 | | | 5.032sft | 9.725sft | 218.630sft | BM 1 | |
| | 5.214sft | | | | 226.020sft | BM 1 | |
| 31 | | | 5.355sft | 9.584sft | 226.280sft | BM 1 | |
| | 4.754sft | | | | 224.930sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 32 | | | 4.938sft | 9.400sft | 222.830sft | BM 1 | |
| | 5.224sft | | | | 224.180sft | BM 1 | |
| 33 | | | 4.722sft | 9.902sft | 224.080sft | BM 1 | |
| | 3.717sft | | | | 219.360sft | BM 1 | |
| 34 | | | 4.727sft | 8.892sft | 223.950sft | BM 1 | |
| | 5.128sft | | | | 48.590sft | BM 1 | |
| SGT2W1 | | | 4.465sft | 9.555sft | 57.320sft | BM 1 | |
| | 4.696sft | | | | 170.730sft | BM 1 | |
| 36 | | | 5.048sft | 9.203sft | 175.430sft | BM 1 | |
| | 5.851sft | | | | 226.150sft | BM 1 | |
| 37 | | | 5.493sft | 9.561sft | 226.440sft | BM 1 | |
| | 4.969sft | | | | 233.230sft | BM 1 | |
| 38 | | | 5.222sft | 9.308sft | 234.190sft | BM 1 | |
| | 5.218sft | | | | 235.330sft | BM 1 | |
| 39 | | | 4.677sft | 9.849sft | 231.790sft | BM 1 | |
| | 4.910sft | | | | 199.900sft | BM 1 | |
| 40 | | | 5.135sft | 9.624sft | 202.790sft | BM 1 | |
| | 4.944sft | | | | 231.300sft | BM 1 | |
| 41 | | | 5.006sft | 9.562sft | 226.050sft | BM 1 | |
| | 5.015sft | | | | 238.060sft | BM 1 | |
| 42 | | | 5.269sft | 9.308sft | 238.350sft | BM 1 | |
| | 5.003sft | | | | 236.910sft | BM 1 | |
| 43 | | | 5.216sft | 9.095sft | 233.530sft | BM 1 | |
| | 5.166sft | | | | 236.880sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 44 | | | 5.358sft | 8.903sft | 235.600sft | BM 1 | |
| | 5.091sft | | | | 233.890sft | BM 1 | |
| 45 | | | 4.764sft | 9.230sft | 234.250sft | BM 1 | |
| | 4.766sft | | | | 235.990sft | BM 1 | |
| 46 | | | 4.831sft | 9.165sft | 234.450sft | BM 1 | |
| | 5.022sft | | | | 234.780sft | BM 1 | |
| 47 | | | 5.507sft | 8.680sft | 233.860sft | BM 1 | |
| | 4.808sft | | | | 232.580sft | BM 1 | |
| 48 | | | 4.783sft | 8.705sft | 232.780sft | BM 1 | |
| | 5.306sft | | | | 226.340sft | BM 1 | |
| 49 | | | 4.941sft | 9.070sft | 225.750sft | BM 1 | |
| | 4.618sft | | | | 217.130sft | BM 1 | |
| 50 | | | 4.830sft | 8.858sft | 221.290sft | BM 1 | |
| | 5.231sft | | | | 231.760sft | BM 1 | |
| 51 | | | 4.863sft | 9.226sft | 232.180sft | BM 1 | |
| | 4.838sft | | | | 229.660sft | BM 1 | |
| 52 | | | 4.628sft | 9.436sft | 229.720sft | BM 1 | |
| | 4.795sft | | | | 239.600sft | BM 1 | |
| 53 | | | 4.501sft | 9.730sft | 239.860sft | BM 1 | |
| | 4.623sft | | | | 233.730sft | BM 1 | |
| 54 | | | 4.806sft | 9.547sft | 232.640sft | BM 1 | |
| | 4.591sft | | | | 234.050sft | BM 1 | |
| 55 | | | 4.800sft | 9.338sft | 233.630sft | BM 1 | |
| | 4.707sft | | | | 228.770sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 56 | | | 5.096sft | 8.949sft | 229.530sft | BM 1 | |
| | 4.755sft | | | | 229.490sft | BM 1 | |
| 57 | | | 5.158sft | 8.546sft | 228.210sft | BM 1 | |
| | 4.976sft | | | | 229.920sft | BM 1 | |
| 58 | | | 4.919sft | 8.603sft | 229.690sft | BM 1 | |
| | 5.335sft | | | | 229.690sft | BM 1 | |
| 59 | | | 5.358sft | 8.580sft | 230.410sft | BM 1 | |
| | 4.947sft | | | | 233.400sft | BM 1 | |
| 60 | | | 4.941sft | 8.586sft | 231.230sft | BM 1 | |
| | 4.956sft | | | | 230.180sft | BM 1 | |
| 61 | | | 5.084sft | 8.458sft | 229.230sft | BM 1 | |
| | 5.281sft | | | | 230.740sft | BM 1 | |
| 62 | | | 5.083sft | 8.656sft | 231.270sft | BM 1 | |
| | 5.188sft | | | | 233.140sft | BM 1 | |
| 63 | | | 4.948sft | 8.896sft | 233.690sft | BM 1 | |
| | 5.021sft | | | | 230.020sft | BM 1 | |
| 64 | | | 4.759sft | 9.158sft | 229.330sft | BM 1 | |
| | 5.093sft | | | | 224.870sft | BM 1 | |
| 65 | | | 4.672sft | 9.579sft | 223.420sft | BM 1 | |
| | 4.963sft | | | | 224.310sft | BM 1 | |
| 66 | | | 4.944sft | 9.598sft | 224.510sft | BM 1 | |
| | 5.068sft | | | | 226.800sft | BM 1 | |
| 67 | | | 5.008sft | 9.658sft | 225.360sft | BM 1 | |
| | 5.305sft | | | | 229.660sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 68 | | | 4.977sft | 9.986sft | 228.050sft | BM 1 | |
| | 5.123sft | | | | 228.670sft | BM 1 | |
| 69 | | | 5.025sft | 10.084sft | 226.710sft | BM 1 | |
| | 4.847sft | | | | 240.490sft | BM 1 | |
| 70 | | | 4.030sft | 10.901sft | 239.830sft | BM 1 | |
| | 3.976sft | | | | 221.980sft | BM 1 | |
| 71 | | | 5.082sft | 9.795sft | 221.590sft | BM 1 | |
| | 4.523sft | | | | 224.670sft | BM 1 | |
| 72 | | | 5.058sft | 9.260sft | 225.200sft | BM 1 | |
| | 4.816sft | | | | 131.530sft | BM 1 | |
| 73 | | | 4.921sft | 9.155sft | 131.790sft | BM 1 | |
| | 4.822sft | | | | 193.410sft | BM 1 | |
| 74 | | | 4.849sft | 9.128sft | 195.050sft | BM 1 | |
| | 5.060sft | | | | 232.510sft | BM 1 | |
| 75 | | | 4.090sft | 10.098sft | 232.180sft | BM 1 | |
| | 4.873sft | | | | 227.590sft | BM 1 | |
| 76 | | | 5.182sft | 9.789sft | 227.360sft | BM 1 | |
| | 5.157sft | | | | 228.580sft | BM 1 | |
| 77 | | | 4.375sft | 10.571sft | 229.790sft | BM 1 | |
| | 4.679sft | | | | 233.040sft | BM 1 | |
| 78 | | | 5.335sft | 9.915sft | 233.460sft | BM 1 | |
| | 5.024sft | | | | 226.510sft | BM 1 | |
| 79 | | | 4.731sft | 10.208sft | 227.690sft | BM 1 | |
| | 4.848sft | | | | 185.560sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 80 | | | 5.214sft | 9.842sft | 185.700sft | BM 1 | |
| | 4.681sft | | | | 224.340sft | BM 1 | |
| 81 | | | 4.622sft | 9.901sft | 222.180sft | BM 1 | |
| | 4.242sft | | | | 225.520sft | BM 1 | |
| 82 | | | 5.280sft | 8.863sft | 224.380sft | BM 1 | |
| | 5.274sft | | | | 224.640sft | BM 1 | |
| 83 | | | 4.628sft | 9.509sft | 224.510sft | BM 1 | |
| | 5.021sft | | | | 222.970sft | BM 1 | |
| 84 | | | 5.321sft | 9.209sft | 223.590sft | BM 1 | |
| | 4.881sft | | | | 184.380sft | BM 1 | |
| SGT1W1 | | | 4.857sft | 9.233sft | 192.550sft | BM 1 | |
| | 5.045sft | | | | 190.090sft | BM 1 | |
| 86 | | | 5.022sft | 9.256sft | 189.630sft | BM 1 | |
| | 4.935sft | | | | 228.810sft | BM 1 | |
| 87 | | | 4.708sft | 9.483sft | 227.560sft | BM 1 | |
| | 4.481sft | | | | 229.490sft | BM 1 | |
| 88 | | | 5.056sft | 8.908sft | 229.460sft | BM 1 | |
| | 5.466sft | | | | 227.260sft | BM 1 | |
| 89 | | | 4.538sft | 9.836sft | 224.970sft | BM 1 | |
| | 4.988sft | | | | 224.770sft | BM 1 | |
| 90 | | | 5.036sft | 9.788sft | 225.490sft | BM 1 | |
| | 5.144sft | | | | 167.360sft | BM 1 | |
| 91 | | | 4.689sft | 10.243sft | 166.010sft | BM 1 | |
| | 4.089sft | | | | 232.810sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 92 | | | 4.847sft | 9.485sft | 232.250sft | BM 1 | |
| | 5.573sft | | | | 229.890sft | BM 1 | |
| 93 | | | 5.044sft | 10.014sft | 229.530sft | BM 1 | |
| | 4.610sft | | | | 230.910sft | BM 1 | |
| 94 | | | 4.738sft | 9.886sft | 229.890sft | BM 1 | |
| | 4.781sft | | | | 230.680sft | BM 1 | |
| 95 | | | 4.336sft | 10.331sft | 231.170sft | BM 1 | |
| | 4.436sft | | | | 229.460sft | BM 1 | |
| 96 | | | 5.253sft | 9.514sft | 230.410sft | BM 1 | |
| | 4.467sft | | | | 222.510sft | BM 1 | |
| 97 | | | 4.817sft | 9.164sft | 221.330sft | BM 1 | |
| | 4.750sft | | | | 216.440sft | BM 1 | |
| 98 | | | 4.485sft | 9.429sft | 216.240sft | BM 1 | |
| | 5.525sft | | | | 224.410sft | BM 1 | |
| 99 | | | 5.005sft | 9.949sft | 224.670sft | BM 1 | |
| | 5.167sft | | | | 117.450sft | BM 1 | |
| 100 | | | 4.220sft | 10.896sft | 120.310sft | BM 1 | |
| | 4.464sft | | | | 229.890sft | BM 1 | |
| 101 | | | 5.172sft | 10.188sft | 230.150sft | BM 1 | |
| | 4.914sft | | | | 229.660sft | BM 1 | |
| 102 | | | 4.875sft | 10.227sft | 230.250sft | BM 1 | |
| | 4.688sft | | | | 231.820sft | BM 1 | |
| 103 | | | 4.732sft | 10.183sft | 231.500sft | BM 1 | |
| | 5.180sft | | | | 234.680sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 104 | | | 5.087sft | 10.276sft | 235.170sft | BM 1 | |
| | 4.928sft | | | | 228.210sft | BM 1 | |
| 105 | | | 5.176sft | 10.028sft | 227.890sft | BM 1 | |
| | 5.012sft | | | | 226.740sft | BM 1 | |
| 106 | | | 4.944sft | 10.096sft | 224.640sft | BM 1 | |
| | 5.104sft | | | | 231.270sft | BM 1 | |
| 107 | | | 4.994sft | 10.206sft | 231.100sft | BM 1 | |
| | 4.901sft | | | | 89.830sft | BM 1 | |
| SGT1W2 | | | 4.910sft | 10.197sft | 91.170sft | BM 1 | |
| | 5.000sft | | | | 193.540sft | BM 1 | |
| 109 | | | 4.942sft | 10.255sft | 192.720sft | BM 1 | |
| | 5.312sft | | | | 201.480sft | BM 1 | |
| 110 | | | 5.296sft | 10.271sft | 201.740sft | BM 1 | |
| | 5.054sft | | | | 225.690sft | BM 1 | |
| 111 | | | 5.144sft | 10.181sft | 224.180sft | BM 1 | |
| | 5.138sft | | | | 227.620sft | BM 1 | |
| 112 | | | 5.254sft | 10.065sft | 228.380sft | BM 1 | |
| | 5.190sft | | | | 230.020sft | BM 1 | |
| 113 | | | 5.077sft | 10.178sft | 230.970sft | BM 1 | |
| | 4.927sft | | | | 231.430sft | BM 1 | |
| 114 | | | 5.294sft | 9.811sft | 230.250sft | BM 1 | |
| | 4.866sft | | | | 231.730sft | BM 1 | |
| 115 | | | 5.197sft | 9.480sft | 233.400sft | BM 1 | |
| | 4.940sft | | | | 227.790sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 116 | | | 4.825sft | 9.595sft | 228.080sft | BM 1 | |
| | 5.500sft | | | | 234.510sft | BM 1 | |
| 117 | | | 5.125sft | 9.970sft | 234.350sft | BM 1 | |
| | 4.556sft | | | | 219.130sft | BM 1 | |
| 118 | | | 3.854sft | 10.672sft | 218.470sft | BM 1 | |
| | 4.651sft | | | | 229.200sft | BM 1 | |
| 119 | | | 5.109sft | 10.214sft | 230.640sft | BM 1 | |
| | 4.776sft | | | | 232.910sft | BM 1 | |
| 120 | | | 4.777sft | 10.213sft | 231.560sft | BM 1 | |
| | 5.018sft | | | | 231.270sft | BM 1 | |
| 121 | | | 5.291sft | 9.940sft | 231.760sft | BM 1 | |
| | 5.045sft | | | | 229.860sft | BM 1 | |
| 122 | | | 4.635sft | 10.350sft | 231.560sft | BM 1 | |
| | 5.023sft | | | | 224.900sft | BM 1 | |
| 123 | | | 4.650sft | 10.723sft | 224.670sft | BM 1 | |
| | 4.994sft | | | | 232.250sft | BM 1 | |
| 124 | | | 4.956sft | 10.761sft | 230.540sft | BM 1 | |
| | 5.038sft | | | | 229.400sft | BM 1 | |
| 125 | | | 4.852sft | 10.947sft | 229.400sft | BM 1 | |
| | 5.253sft | | | | 226.020sft | BM 1 | |
| 126 | | | 4.927sft | 11.273sft | 227.070sft | BM 1 | |
| | 4.846sft | | | | 193.010sft | BM 1 | |
| 127 | | | 4.276sft | 11.843sft | 193.730sft | BM 1 | |
| | 4.272sft | | | | 69.290sft | BM 1 | |

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|---|---|---|---|---|---|---|---|
| 128 | | | 4.848sft | 11.267sft | 73.130sft | BM 1 | |

Back to top

## Leveling Observations

| ID | From Pt | To Point | Quality | Δ Elevation |
|---|---|---|---|---|
| LR1 | 9247 | 1 | | 0.255sft |
| LR2 | 1 | 2 | | 0.016sft |
| LR3 | 2 | 3 | | 0.309sft |
| LR4 | 3 | 4 | | 0.174sft |
| LR5 | 4 | 5 | | -0.018sft |
| LR6 | 5 | 6 | | -0.096sft |
| LR7 | 6 | 7 | | -0.316sft |
| LR8 | 7 | 8 | | 0.351sft |
| LR9 | 8 | 9 | | 0.907sft |
| LR10 | 9 | 10 | | -0.326sft |
| LR11 | 10 | 11 | | -0.425sft |
| LR12 | 11 | 12 | | -0.131sft |
| LR13 | 12 | 13 | | -0.454sft |
| LR14 | 13 | 14 | | 0.411sft |
| LR15 | 14 | 15 | | 0.168sft |
| LR16 | 15 | 16 | | 0.232sft |
| LR17 | 16 | 17 | | -0.467sft |
| LR18 | 17 | 18 | | 0.180sft |
| LR19 | 18 | 19 | | 0.211sft |
| LR20 | 19 | 20 | | -0.480sft |
| LR21 | 20 | 21 | | 0.014sft |
| LR22 | 21 | SGT2W2 | | 0.664sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR23 | SGT2W2 | 23 | | -0.362sft |
| LR24 | 23 | 24 | | -0.122sft |
| LR25 | 24 | 25 | | -0.072sft |
| LR26 | 25 | 26 | | 0.200sft |
| LR27 | 26 | 27 | | 0.454sft |
| LR28 | 27 | 28 | | 0.205sft |
| LR29 | 28 | 29 | | -0.039sft |
| LR30 | 29 | 30 | | 0.190sft |
| LR31 | 30 | 31 | | -0.141sft |
| LR32 | 31 | 32 | | -0.184sft |
| LR33 | 32 | 33 | | 0.502sft |
| LR34 | 33 | 34 | | -1.010sft |
| LR35 | 34 | SGT2W1 | | 0.663sft |
| LR36 | SGT2W1 | 36 | | -0.352sft |
| LR37 | 36 | 37 | | 0.358sft |
| LR38 | 37 | 38 | | -0.253sft |
| LR39 | 38 | 39 | | 0.541sft |
| LR40 | 39 | 40 | | -0.225sft |
| LR41 | 40 | 41 | | -0.062sft |
| LR42 | 41 | 42 | | -0.254sft |
| LR43 | 42 | 43 | | -0.213sft |
| LR44 | 43 | 44 | | -0.192sft |
| LR45 | 44 | 45 | | 0.327sft |
| LR46 | 45 | 46 | | -0.065sft |
| LR47 | 46 | 47 | | -0.485sft |
| LR48 | 47 | 48 | | 0.025sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR49 | 48 | 49 | | 0.365sft |
| LR50 | 49 | 50 | | -0.212sft |
| LR51 | 50 | 51 | | 0.368sft |
| LR52 | 51 | 52 | | 0.210sft |
| LR53 | 52 | 53 | | 0.294sft |
| LR54 | 53 | 54 | | -0.183sft |
| LR55 | 54 | 55 | | -0.209sft |
| LR56 | 55 | 56 | | -0.389sft |
| LR57 | 56 | 57 | | -0.403sft |
| LR58 | 57 | 58 | | 0.057sft |
| LR59 | 58 | 59 | | -0.023sft |
| LR60 | 59 | 60 | | 0.006sft |
| LR61 | 60 | 61 | | -0.128sft |
| LR62 | 61 | 62 | | 0.198sft |
| LR63 | 62 | 63 | | 0.240sft |
| LR64 | 63 | 64 | | 0.262sft |
| LR65 | 64 | 65 | | 0.421sft |
| LR66 | 65 | 66 | | 0.019sft |
| LR67 | 66 | 67 | | 0.060sft |
| LR68 | 67 | 68 | | 0.328sft |
| LR69 | 68 | 69 | | 0.098sft |
| LR70 | 69 | 70 | | 0.817sft |
| LR71 | 70 | 71 | | -1.106sft |
| LR72 | 71 | 72 | | -0.535sft |
| LR73 | 72 | 73 | | -0.105sft |
| LR74 | 73 | 74 | | -0.027sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR75 | 74 | 75 | | 0.970sft |
| LR76 | 75 | 76 | | -0.309sft |
| LR77 | 76 | 77 | | 0.782sft |
| LR78 | 77 | 78 | | -0.656sft |
| LR79 | 78 | 79 | | 0.293sft |
| LR80 | 79 | 80 | | -0.366sft |
| LR81 | 80 | 81 | | 0.059sft |
| LR82 | 81 | 82 | | -1.038sft |
| LR83 | 82 | 83 | | 0.646sft |
| LR84 | 83 | 84 | | -0.300sft |
| LR85 | 84 | SGT1W1 | | 0.024sft |
| LR86 | SGT1W1 | 86 | | 0.023sft |
| LR87 | 86 | 87 | | 0.227sft |
| LR88 | 87 | 88 | | -0.575sft |
| LR89 | 88 | 89 | | 0.928sft |
| LR90 | 89 | 90 | | -0.048sft |
| LR91 | 90 | 91 | | 0.455sft |
| LR92 | 91 | 92 | | -0.758sft |
| LR93 | 92 | 93 | | 0.529sft |
| LR94 | 93 | 94 | | -0.128sft |
| LR95 | 94 | 95 | | 0.445sft |
| LR96 | 95 | 96 | | -0.817sft |
| LR97 | 96 | 97 | | -0.350sft |
| LR98 | 97 | 98 | | 0.265sft |
| LR99 | 98 | 99 | | 0.520sft |
| LR100 | 99 | 100 | | 0.947sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR101 | 100 | 101 | | -0.708sft |
| LR102 | 101 | 102 | | 0.039sft |
| LR103 | 102 | 103 | | -0.044sft |
| LR104 | 103 | 104 | | 0.093sft |
| LR105 | 104 | 105 | | -0.248sft |
| LR106 | 105 | 106 | | 0.068sft |
| LR107 | 106 | 107 | | 0.110sft |
| LR108 | 107 | SGT1W2 | | -0.009sft |
| LR109 | SGT1W2 | 109 | | 0.058sft |
| LR110 | 109 | 110 | | 0.016sft |
| LR111 | 110 | 111 | | -0.090sft |
| LR112 | 111 | 112 | | -0.116sft |
| LR113 | 112 | 113 | | 0.113sft |
| LR114 | 113 | 114 | | -0.367sft |
| LR115 | 114 | 115 | | -0.331sft |
| LR116 | 115 | 116 | | 0.115sft |
| LR117 | 116 | 117 | | 0.375sft |
| LR118 | 117 | 118 | | 0.702sft |
| LR119 | 118 | 119 | | -0.458sft |
| LR120 | 119 | 120 | | -0.001sft |
| LR121 | 120 | 121 | | -0.273sft |
| LR122 | 121 | 122 | | 0.410sft |
| LR123 | 122 | 123 | | 0.373sft |
| LR124 | 123 | 124 | | 0.038sft |
| LR125 | 124 | 125 | | 0.186sft |
| LR126 | 125 | 126 | | 0.326sft |

| | | | | |
|---|---|---|---|---|
| | | | | |
| LR127 | 126 | 127 | | 0.570sft |
| LR128 | 127 | 128 | | -0.576sft |

**Back to top**

## Southern Golden Gate Estates Restoration
## Monitoring Well Bench Mark Elevations

| Well & Bench Names | Bench Mark Elevation | Well Head Elevations |
|---|---|---|
| | NAVD 88 | NAVD 88 |
| SGT1W1 | 9.23 | 13.71 |
| SGT1W2 | 10.20 | 14.81 |
| SGT1W4 | 10.17 | 14.24 |
| SGT1W5 | 10.92 | 15.01 |
| SGT2W1 | 9.56 | 13.48 |
| SGT2W2 | 9.27 | 14.20 |
| SGT2W3 | 7.22 | 10.74 |
| SGT2W4 | 9.76 | 13.45 |
| SGT2W5 | 9.44 | 14.47 |
| SGT2W6 | 8.68 | 13.52 |
| SGT3W1 | 5.49 | 9.73 |
| SGT3W2 | 6.32 | 9.21 |
| SGT3W3 | 5.65 | 10.01 |
| SGT3W4 | 6.86 | 12.04 |
| SGT3W5 | 7.58 | 11.41 |
| SGT3W6 | 6.77 | 11.57 |
| SGT3W7 | 8.82 | 13.45 |
| SGT4W1 | 4.81 | 8.97 |
| SGT4W2 | 5.73 | 9.34 |
| SGT4W3 | 4.56 | 6.91 |
| SGT4W4(R598)* | 4.47 | 9.80 |
| SGT4W5 | 4.53 | 9.66 |
| SGT4W6 | 5.91 | 10.10 |

All Elevations are NAVD 88

* This Bench Mark is a previously set CERP Monument and does not have a SGT stamping