NGS DATA SHEETS
for reference only
with adjustment notes
at top of page

Appendix F
### The NGS Data Sheet

**DATABASE** = Sybase, **PROGRAM** = datasheet, **VERSION** = 5.60

Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

**AQ2645**

<table>
<thead>
<tr>
<th>AQ2645</th>
<th>DESCRIPTION</th>
<th>VALUE</th>
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</thead>
<tbody>
<tr>
<td>CBN</td>
<td>This is a Cooperative Base Network Control Station.</td>
<td></td>
</tr>
<tr>
<td>DESIGNATION</td>
<td>FL/GPS 30</td>
<td></td>
</tr>
<tr>
<td>PID</td>
<td>AQ2645</td>
<td></td>
</tr>
<tr>
<td>STATE/COUNTY</td>
<td>FL/ST JOHNS</td>
<td></td>
</tr>
<tr>
<td>USGS QUAD</td>
<td>ST AUGUSTINE BEACH</td>
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</table>

**AQ2645**

<table>
<thead>
<tr>
<th>AQ2645*</th>
<th>NAD 83(1990)</th>
<th>29 45 15.84144(N)</th>
<th>081 20 56.61220(W)</th>
<th>ADJUSTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVD 88</td>
<td>-</td>
<td>12.83 (meters)</td>
<td>42.1 (feet)</td>
<td>LEVELING</td>
</tr>
</tbody>
</table>

| AQ2645 | X            | 833,567.092 (meters) | COMP |
|        | Y            | -5,478,755.758 (meters) | COMP |
|        | Z            | 3,146,759.356 (meters) | COMP |
|        | LAPLACE CORR- | -0.56 (seconds) | DEFLEC96 |
|        | ELLIP HEIGHT- | -15.92 (meters) | GPS OBS |
|        | EGOID HEIGHT- | -28.69 (meters) | GEOID96 |

**AQ2645**

HORZ ORDER = B

VERT ORDER = THIRD

ELLIP ORDER = FOURTH

CLASS I

**AQ2645**

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.

AQ2645. The orthometric height was determined by differential leveling.

AQ2645. The vertical network tie was performed by a horz. field party for horz. obs reductions. Reset procedures were used to establish the elevation.

AQ2645. The X, Y, and Z were computed from the position and the ellipsoidal ht.

AQ2645. The Laplace correction was computed from DEFLEC96 derived deflections.

AQ2645. The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

AQ2645. The geoid height was determined by GEOID96.

**AQ2645**

<table>
<thead>
<tr>
<th>AQ2645; SPC FL E</th>
<th>North</th>
<th>East</th>
<th>Units</th>
<th>Scale</th>
<th>Converg.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>600,695.427</td>
<td>166,239.858</td>
<td>MT</td>
<td>0.99995523</td>
<td>-0 10 23.6</td>
</tr>
<tr>
<td>UTM 17</td>
<td>3,291,622.454</td>
<td>466,251.377</td>
<td>MT</td>
<td>0.99961405</td>
<td>-0 10 23.6</td>
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</tbody>
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**AQ2645**

SUPERSEDED SURVEY CONTROL

| AQ2645 NGVD 29 | 13.1 (meters) | 43. (feet) | GPS OBS |

**AQ2645**

Superseded values are not recommended for survey control.

AQ2645. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AQ2645. See file format.dat to determine how the superseded data were derived.

**AQ2645**

MARKER: I = METAL ROD

SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

STAMPING: FLGPS 30 1988

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ2645  PROJECT:  FLUSH
AQ2645  STABILITY:  B = PROBABLY HOLD POSITION/ELEVATION WELL
AQ2645  SATELLITE:  THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AQ2645  SATELLITE OBSERVATIONS - January 10, 1995
AQ2645  ROD/PIPE-DEPTH:  13.0 meters
AQ2645  SLEEVE-DEPTH :  0.91 meters
AQ2645
AQ2645  HISTORY - Date    Condition     Recov. By
AQ2645  HISTORY - 1988    MONUMENTED   NGS
AQ2645  HISTORY - 19890425 GOOD
AQ2645  HISTORY - 19890529 GOOD
AQ2645  HISTORY - 19950110 GOOD    KEISCH
AQ2645
AQ2645  STATION DESCRIPTION
AQ2645
AQ2645  DESCRIBED BY NATIONAL GEODETIC SURVEY 1988
AQ2645  THE STATION IS LOCATED ABOUT 33.80 KM (21.00 MI) NORTHEAST OF PALATKA,
AQ2645  15.29 KM (9.50 MI) SOUTHWEST OF ST. AUGUSTINE, IN THE MEDIAN OF
AQ2645  INTERSTATE HIGHWAY 95. OWNERSHIP--HIGHWAY RIGHT-OF-WAY.
AQ2645  TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 95
AQ2645  AND STATE ROAD 206, ABOUT 16.09 KM (10.00 MI) SOUTH-SOUTHWEST OF ST.
AQ2645  AUGUSTINE, GO NORTH FOR 0.72 KM (0.45 MI) ON INTERSTATE HIGHWAY 95 TO
AQ2645  THE STATION ON LEFT.
AQ2645  THE STATION IS RECESSED 9 CM BELOW GROUND. LOCATED 7.01 M (23.0 FT)
AQ2645  EAST-NORtheast FROM THE CENTER OF THE DITCH IN HIGHWAY MEDIAN, 6.40 M
AQ2645  (21.0 FT) WEST-SOUTHWEST FROM THE APPROXIMATE CENTER OF THE NORTHBOUND
AQ2645  LANES OF HIGHWAY AND 6.34 M (20.8 FT) EAST FROM A CARSONITE WITNESS
AQ2645  POST. NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
AQ2645  DESCRIBED BY R.L. MALLOY.
AQ2645
AQ2645  STATION RECOVERY (1989)
AQ2645
AQ2645  RECOVERED 1989
AQ2645  RECOVERED IN GOOD CONDITION.
AQ2645
AQ2645  STATION RECOVERY (1989)
AQ2645
AQ2645  RECOVERED 1989
AQ2645  RECOVERED IN GOOD CONDITION.
AQ2645
AQ2645  STATION RECOVERY (1995)
AQ2645
AQ2645  RECOVERY NOTE BY KEITH AND SCHNARS - LAKELAND 1995 (JFO)
AQ2645  RECOVERED AS DESCRIBED.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey,  Retrieval Date = JUNE  5, 1998
AQ2646  ************************************************************
AQ2646  CBN - This is a Cooperative Base Network Control Station.
AQ2646  DESIGNATION - FLGPS 31
AQ2646  PID - AQ2646
AQ2646  STATE/COUNTY- FL/CLAY
AQ2646  USGS QUAD - PENNEY FARMS (1993)
AQ2646
AQ2646  ***************************************** CURRENT SURVEY CONTROL
AQ2646  NAD 83(1990)-  29 58 59.99424(N)  081 45 05.91908(W)  ADJUSTED
AQ2646  NAVD 88 - 20.736  (meters)  68.03  (feet)  ADJUSTED
AQ2646
AQ2646  X - 793,238.632  (meters)  COMP
AQ2646  Y - -5,471,977.370  (meters)  COMP
AQ2646  Z - 3,166,769.753  (meters)  COMP
AQ2646  LAPLACE CORR- -0.90  (seconds)  DBFLEC96
AQ2646  ELLIP HEIGHT- -7.36  (meters)  GPS OBS
AQ2646  GEOID HEIGHT- -28.09  (meters)  GEOID96
AQ2646  DYNAMIC HT - 20.709  (meters)  67.94  (feet)  COMP
AQ2646  MODELED GRAV- 979,335.3  (mgal)  NAVD 88
AQ2646
AQ2646  HORZ ORDER - B
AQ2646  VERT ORDER - FIRST  CLASS II
AQ2646  ELLIP ORDER - FOURTH  CLASS I
AQ2646
AQ2646. The horizontal coordinates were established by GPS observations
AQ2646. and adjusted by the National Geodetic Survey in September 1990.
AQ2646
AQ2646. The orthometric height was determined by differential leveling
AQ2646. and adjusted by the National Geodetic Survey in March 1997.
AQ2646
AQ2646. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AQ2646
AQ2646. The Laplace correction was computed from DBFLEC96 derived deflections.
AQ2646
AQ2646. The ellipsoidal height was determined by GPS observations
AQ2646. and is referenced to NAD 83.
AQ2646
AQ2646. The geoid height was determined by GEOID96.
AQ2646
AQ2646. The dynamic height is computed by dividing the NAVD 88
AQ2646. geopotential number by the normal gravity value computed on the
AQ2646. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ2646. degrees latitude (G = 980.6199 gals.).
AQ2646
AQ2646. The modeled gravity was interpolated from observed gravity values.
AQ2646
AQ2646;  
AQ2646:SPC FL E - 626,257.760 127,467.749 MT 1.00000066 -0 22 32.3
AQ2646:UTM 17 - 3,317,176.065 427,492.497 MT 0.99966486 -0 22 32.3
AQ2646
AQ2646:  Primary Azimuth Mark  Grid Az
AQ2646:SPC FL E - FLGPS 31 AZ MK  267 51 07.6
AQ2646:UTM 17 - FLGPS 31 AZ MK  267 51 07.6

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ2646

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<th>PID</th>
<th>Reference Object</th>
<th>Distance</th>
<th>Geod. Az</th>
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<tr>
<td>AQ2646</td>
<td>FLGPS 31 AZ MK</td>
<td>APPROX. 1.0 KM 2672835.3</td>
<td>dddmss.s</td>
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SUPERSEDED SURVEY CONTROL

AQ2646 Superseded values are not recommended for survey control.
AQ2646 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ2646 See file format.dat to determine how the superseded data were derived.

AQ2646 MARKER: I = METAL ROD
AQ2646 SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT. +)
AQ2646 STAMPING: FLGPS 31 1988
AQ2646 PROJECTION: FLUSH
AQ2646 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AQ2646 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AQ2646 SATELLITE OBSERVATIONS - February 18, 1996
AQ2646 ROD/PIPE-DEPTH: 24.4 meters
AQ2646 SLEEVE-DEPTH : 0.91 meters

AQ2646 HISTORY - Date Condition Recov. By
AQ2646 HISTORY - 1988 MONUMENTED NGS
AQ2646 HISTORY - 19890424 GOOD
AQ2646 HISTORY - 19890530 GOOD
AQ2646 HISTORY - 19931014 GOOD NGS
AQ2646 HISTORY - 19950110 GOOD KEISCH
AQ2646 HISTORY - 19960218 GOOD FLDEP

AQ2646 STATION DESCRIPTION

AQ2646 DESCRIBED BY NATIONAL GEODETIC SURVEY 1988
AQ2646 THE STATION IS LOCATED ABOUT 41.03 KM (25.50 MI) SOUTH-SOUTHWEST OF
AQ2646 JACKSONVILLE, 7.00 KM (4.35 MI) WEST OF GREEN COVE SPRINGS, ALONG
AQ2646 STATE ROAD 16. OWNERSHIP--STATE ROAD RIGHT-OF-WAY.
AQ2646 TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 17 AND
AQ2646 STATE ROAD 16 IN GREEN COVE SPRINGS, GO WEST FOR 5.15 KM (3.20 MI) ON
AQ2646 STATE ROAD 16 TO THE JUNCTION OF COUNTY ROAD 315 NORTH. CONTINUE
AQ2646 AHEAD FOR 1.85 KM (1.15 MI) ON STATE ROAD 16 TO THE STATION ON RIGHT.
AQ2646 THE STATION IS RECESSED 10 CM BELOW GROUND. LOCATED 48.68 M
AQ2646 (159.7 FT) WEST FROM A STOP SIGN AT RON ROAD, 6.40 M (21.0 FT) NORTH
AQ2646 FROM THE APPROXIMATE CENTER OF STATE ROAD 16 AND 12.34 M (40.5 FT)
AQ2646 SOUTH FROM A CARSONITE WITNESS POST. NOTE--ACCESS TO DATUM POINT IS
AQ2646 HAD THROUGH A 5-INCH LOGO CAP.
AQ2646 DESCRIBED BY R.L. MALLOY.

AQ2646 STATION RECOVERY (1989)

AQ2646 RECOVERED 1989
AQ2646 RECOVERED IN GOOD CONDITION.

AQ2646 STATION RECOVERY (1989)

AQ2646 RECOVERED 1989
AQ2646 RECOVERED IN GOOD CONDITION.
AQ2646  STATION RECOVERY (1993)

AQ2646  RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993 (RLT)
AQ2646  THE STATION IS ABOUT 25.5 MI (41.0 KM) SOUTH-SOUTHWEST OF
AQ2646  JACKSONVILLE, 4.35 MI (7.00 KM) WEST OF GREEN COVE SPRINGS IN SECTION
AQ2646  12, TOWNSHIP 6 SOUTH, RANGE 25 EAST. OWNERSHIP--STATE ROAD 16
AQ2646  RIGHT-OF-WAY. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY
AQ2646  17 (ORANGE AVENUE) AND STATE ROAD 16 (FERRIS STREET) IN GREEN COVE
AQ2646  SPRINGS, GO WEST ON STATE ROAD 16 (FERRIS STREET) FOR 3.25 MI (5.23
AQ2646  KM) TO THE JUNCTION OF COUNTY ROAD 315 NORTH ON THE RIGHT, CONTINUE
AQ2646  WEST ON STATE ROAD 16 FOR 0.50 MI (0.80 KM) TO THE JUNCTION OF COUNTY
AQ2646  ROAD 315 SOUTH ON THE LEFT, CONTINUE WEST ON STATE ROAD 16 FOR 0.70 MI
AQ2646  (1.13 KM) TO THE STATION ON THE RIGHT, RECESSED 0.8 FT (24.4 CM) BELOW
AQ2646  THE LEVEL OF THE GROUND. LOCATED 159.7 FT (48.7 M) WEST OF THE STOP
AQ2646  SIGN AT RON ROAD, 41.0 FT (12.5 M) SOUTH OF THE WOOD FENCE, 40.5 FT
AQ2646  (12.3 M) SOUTH OF A CARSONITE WITNESS POST AND 20.6 FT (6.3 M) NORTH
AQ2646  OF THE APPROXIMATE CENTERLINE OF STATE ROAD 16. NOTE--ACCESS TO DATUM
AQ2646  POINT IS HAD THROUGH A 5-INCH LOGO CAP.

AQ2646

AQ2646  STATION RECOVERY (1995)

AQ2646  RECOVERY NOTE BY KEITH AND SCHNARS - LAKELAND 1995 (JPO)
AQ2646  RECOVERED AS DESCRIBED.

AQ2646

AQ2646  STATION RECOVERY (1996)

AQ2646  RECOVERY NOTE BY FL DEPT OF ENV PRO 1996 (JLM)
AQ2646  THE STATION IS ABOUT 8.6 MI (13.8 KM) SOUTHEAST OF MIDDLEBURG, 4.4 MI
AQ2646  (7.1 KM) WEST OF GREEN COVE SPRINGS, 3.6 MI (5.8 KM) EAST OF PENNY
AQ2646  FARMS ON STATE ROAD 16 IN SECTION 12, TOWNSHIP 6 SOUTH, RANGE 25 EAST.
AQ2646  TO REACH THE STATION FROM THE POST OFFICE ON LEWIS AVENUE IN PENNY
AQ2646  FARMS, GO NORTH ON LEWIS AVENUE FOR 0.2 MI (0.3 KM) TO THE JUNCTION OF
AQ2646  STATE ROAD 16, TURN RIGHT ON STATE ROAD 16 AND GO EAST FOR 3.55 MI
AQ2646  (5.71 KM) TO THE STATION ON THE RIGHT, RECESSED 0.4 FT (12.2 CM) BELOW
AQ2646  THE GROUND. THE STATION CAN ALSO BE REACHED FROM THE INTERSECTION OF
AQ2646  U.S. HIGHWAY 17 AND STATE ROAD 16 IN GREEN COVE SPRINGS, GO WEST ON
AQ2646  STATE ROAD 16 FOR 3.2 MI (5.1 KM) TO THE JUNCTION OF COUNTY ROAD 315
AQ2646  NORTH, CONTINUE WEST ON STATE ROAD 16 FOR 1.15 MI (1.85 KM) TO THE
AQ2646  STATION ON THE RIGHT. LOCATED 159.7 FT (48.7 M) WEST OF A STOP SIGN AT
AQ2646  RON ROAD, 40.5 FT (12.3 M) SOUTH OF A CARSONITE WITNESS POST AND 21.0
AQ2646  FT (6.4 M) NORTH OF THE APPROXIMATE CENTERLINE OF STATE ROAD 16, NOTE
AQ2646  ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

**The NGS Data Sheet**

*CURRENT SURVEY CONTROL*

**National Geodetic Survey, Retrieval Date = JUNE 5, 1998**

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<th>BC2487</th>
<th><strong>NAD 83(1990)</strong></th>
<th>30 20 09.31499(N)</th>
<th>081 30 51.55660(W)</th>
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<tr>
<td>BC2487</td>
<td><strong>NAVD 88</strong></td>
<td>12.06 (meters)</td>
<td>39.6 (feet)</td>
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<table>
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<th><strong>X</strong></th>
<th>812,998.154 (meters)</th>
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<td><strong>Y</strong></td>
<td>-5,449,214.569 (meters)</td>
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<tr>
<td>-------</td>
<td>-------</td>
<td>----------------------</td>
<td>------</td>
</tr>
<tr>
<td>BC2487</td>
<td><strong>Z</strong></td>
<td>3,202,560.168 (meters)</td>
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<th><strong>LAPLACE CORR</strong></th>
<th>-1.49 (seconds)</th>
<th>DEFLFC96</th>
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<tbody>
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<td>BC2487</td>
<td><strong>ELLIP HEIGHT</strong></td>
<td>-16.58 (meters)</td>
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<td>------------------</td>
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<td>----------</td>
</tr>
<tr>
<td>BC2487</td>
<td><strong>GEOID HEIGHT</strong></td>
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<th><strong>HORIZ ORDER</strong></th>
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<td>BC2487</td>
<td><strong>ELLIP ORDER</strong></td>
<td>FOURTH</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------</td>
<td>------</td>
</tr>
<tr>
<td>BC2487</td>
<td><strong>CLASS I</strong></td>
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This mark is at Craig Municipal Airport (CGR). The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990. The orthometric height was determined by GPS observations. GPS derived orthometric heights for airport stations designated as PACS or SACS are published to 2 decimal places. This maintains centimeter relative accuracy between the PACS and SACS. It does not indicate centimeter accuracy relative to other marks which are part of the NAVD 88 network. The X, Y, and Z were computed from the position and the ellipsoidal ht. The Laplace correction was computed from DEFLFC96 derived deflections. The ellipsoidal height was determined by GPS observations and is referenced to NAD 83. The geoid height was determined by GEOID96.

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http://www.ngs.noaa.gov/cgi-bin/env_cgi
<table>
<thead>
<tr>
<th>PID</th>
<th>Reference Object</th>
<th>Distance</th>
<th>Geod. Az</th>
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</thead>
<tbody>
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<td>AE7446 CRG AP STA B</td>
<td>387.774 METERS</td>
<td>09351</td>
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<td>BC2487</td>
<td>AD9134 CRG A</td>
<td>APPROX. 0.6 KM</td>
<td>2100857.9</td>
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**SUPERSEDED SURVEY CONTROL**

BC2487. Superseded values are not recommended for survey control.

BC2487. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

BC2487. See file format.dat to determine how the superseded data were derived.

BC2487

**MARKER: DT = TOPOGRAPHIC STATION DISK**

**SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)**

**STAMING: ARP CRG 1971**

**STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO**

**SURFACE MOTION**

**SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR**

**SATELLITE: SATELLITE OBSERVATIONS - December 04, 1995**

BC2487

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<th>Date</th>
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<th>Recov. By</th>
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<td>1971</td>
<td>MONUMENTED</td>
<td>NGS</td>
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<tr>
<td>BC2487</td>
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<td>GOOD</td>
<td>NGS</td>
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<tr>
<td>BC2487</td>
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</tr>
<tr>
<td>BC2487</td>
<td>19951204</td>
<td>GOOD</td>
<td>NGS</td>
</tr>
</tbody>
</table>

**STATION DESCRIPTION**

**DESCRIBED BY NATIONAL GEODETIC SURVEY 1988**

**THE STATION IS LOCATED ON THE EAST SIDE OF JACKSONVILLE, AT THE CRAIG**

**MUNICIPAL AIRPORT, ON THE SOUTH SIDE OF AN ASPHALT APRON ADJACENT TO**

**THE FAA BUILDING. OWNERSHIP-PORT OF JACKSONVILLE, P.O. BOX 18097,**

**JACKSONVILLE FL 32229, BOB BALL - AVIATION DIRECTOR, PHONE**

**904-741-2014, CHARLES HARDICK - OPERATIONS MANAGER, AL GULAMALI -**

**OPERATIONS SPECIALIST, PHONE 741-2000, ANDY ANDREWS - AIRFIELD**

**COORDINATOR, PHONE 641-8969. NOTE-PERMISSION MUST BE OBTAINED BEFORE**

**ENTERING AIRPORT.**

**TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 10**

**AND ST. JOHNS BLUFF RD, ON THE EAST SIDE OF**

**JACKSONVILLE, GO NORTH FOR 1.29 KM (0.80 MI) ON ST. JOHNS BLUFF RD TO**

**A PAVED ROAD RIGHT AND AIRPORT SIGN. TURN RIGHT AND GO EAST FOR 0.16**

**KM (0.10 MI) ON THE PAVED ROAD TO A GATE. PASS THROUGH GATE, CONTINUE**

**STRAIGHT AHEAD AND GO EAST FOR 0.56 KM (0.35 MI) ON THE PAVED ROAD TO**

**THE END OF ROAD AT FAA PARKING LOT. CONTINUE AHEAD AND GO EASTERNLY**

**FOR 0.08 KM (0.05 MI) THROUGH THE PARKING LOT TO A CABLE GATE, NEAR**

**THE NORTHEAST END OF THE FAA BUILDING. PASS THROUGH GATE AND GO**

**EASTERLY FOR 20 M (65.6 FT) TO AN ASPHALT APRON, TURN RIGHT AND GO**

**SOUTH-SOUTHEAST FOR 0.08 KM (0.05 MI) ON THE APRON TO THE STATION.**

**THE STATION IS RECESSED 4 CM BELOW GROUND. LOCATED 55.93 M**

**183.5 FT) EAST-SOUTHEAST FROM THE SOUTH CORNER OF THE FAA BUILDING,**

**48.62 M (159.5 FT) SOUTHEAST FROM THE NORTH CORNER OF THE FAA**

**BUILDING, 27.13 M (89.0 FT) WEST-NORTHWEST FROM THE APPROXIMATE CENTER**

**OF A TAXIWAY AND 14.51 M (47.6 FT) SOUTH FROM THE SOUTH EDGE OF THE**

**ASPHALT APRON.**

**DESCRIBED BY D.P. CALLAHAN.**

BC2487
Data Sheet Retrieval

BC2487  STATION RECOVERY (1989)
BC2487
BC2487 'RECOVERED 1989
BC2487 'RECOVERED IN GOOD CONDITION.
BC2487
BC2487
BC2487  STATION RECOVERY (1994)
BC2487
BC2487
BC2487 'RECOVERY NOTE BY NATIONAL OCEAN SURVEY 1994 (JDR)
BC2487 'RECOVERED AS DESCRIBED.
BC2487
BC2487
BC2487  STATION RECOVERY (1995)
BC2487
BC2487
BC2487 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
BC2487 'THE STATION IS LOCATED ABOUT 6.0 MI (9.7 KM) WEST OF ATLANTIC BEACH,
BC2487 'ON THE EAST SIDE OF JACKSONVILLE, AT THE CRAIG MUNICIPAL AIRPORT AND
BC2487 'NEAR THE APRON AT THE FAA BUILDING. OWNERSHIP -- JACKSONVILLE AIRPORT
BC2487 'AUTHORITY, P.O. BOX 3005, JACKSONVILLE, FL 32206. ASSISTANT AIRPORT
BC2487 'OPERATIONS MANAGER, AL GULAMALI, PHONE (904) 741-2000. AT THE AIRPORT
BC2487 'CONTACT TERRY BIGGERSTAFF, PHONE (904) 642-4001 OR KRIS WEST,
BC2487 'MAINTENANCE, (904) 641-7666. THIS AIRPORT HAS A CONTROL TOWER BUT CAN
BC2487 'BE DOUN WITHOUT ESCORT IF THE TRUCK IS TWO-WAY RADIO EQUIPPED. TO
BC2487 'REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 10 (ATLANTIC
BC2487 'BOULEVARD) AND ST JOHNS BLUFF ROAD ON THE EAST SIDE OF JACKSONVILLE,
BC2487 'GO NORTH ON ST JOHNS BLUFF ROAD FOR 0.8 MI (1.3 KM) TO A PAVED ROAD
BC2487 'RIGHT AND AN AIRPORT SIGN. TURN RIGHT AND GO EAST ON THE AIRPORT
BC2487 'ENTRANCE ROAD FOR 0.45 MI (0.72 KM) TO A PARKING LOT. BEAR LEFT AND
BC2487 'GO NORTHEAST ACROSS THE PARKING LOT TO A GATE NEAR THE NORTHEAST END
BC2487 'OF A FAA BUILDING. PASS THROUGH GATE, CONTINUE AHEAD AND GO EAST FOR
BC2487 'ABOUT 65 FT (19.8 M) TO THE APRON. TURN RIGHT AND GO SOUTH-SOUTHEAST
BC2487 'ACROSS THE APRON FOR 0.05 MI (0.08 KM) TO THE APRONS SOUTH EDGE AND
BC2487 'THE STATION JUST AHEAD IN THE GRASS. THE STATION IS RECESSSED 4 CM
BC2487 'BELOW THE GROUND. THE STATION IS LOCATED 183.5 FT (55.9 M)
BC2487 'EAST-SOUTHEAST OF THE SOUTH CORNER OF THE FAA BUILDING, 159.5 FT (48.6
BC2487 'M) SOUTHEAST OF THE EAST CORNER OF THE FAA BUILDING, 86.4 FT (26.3 M)
BC2487 'WEST-NORTHWEST OF THE TAXIWAY CENTER, 47.9 FT (14.6 M) SOUTH OF THE
BC2487 'SOUTH EDGE OF THE APRON, 28.5 FT (8.7 M) SOUTHWEST OF THE SOUTHWEST
BC2487 'CORNER OF A CONCRETE PAD FOR A TAXIWAY IDENTIFIER SIGN AND 1.0 FT
BC2487 'NORTH OF A WITNESS POST. NOTE -- THE STATION IS AN AREA NAVIGATION
BC2487 'APPROACH SECONDARY AIRPORT CONTROL STATION.
BC2487
BC2487
BC2487 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
BC2487 'THE STATION IS LOCATED ABOUT 6.0 MI (9.7 KM) WEST OF ATLANTIC BEACH,
BC2487 'ON THE EAST SIDE OF JACKSONVILLE, AT THE CRAIG MUNICIPAL AIRPORT AND
BC2487 'NEAR THE APRON AT THE FAA BUILDING. OWNERSHIP--JACKSONVILLE AIRPORT
BC2487 'AUTHORITY, PO BOX 3005, JACKSONVILLE, FL 32206. ASSISTANT AIRPORT
BC2487 'OPERATIONS MANAGER, AL GULAMALI, PHONE (904) 741-2000. AT THE AIRPORT
BC2487 'CONTACT TERRY BIGGERSTAFF, PHONE (904) 642-4001 OR CHRIS WEST,
BC2487 'MAINTENANCE, (904) 641-7666. THIS AIRPORT HAS A CONTROL TOWER BUT CAN
BC2487 'BE DONE WITHOUT ESCORT IF THE TRUCK IS TWO-WAY RADIO EQUIPPED. TO
BC2487 'REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 10 (ATLANTIC
BC2487 'BOULEVARD) AND ST JOHNS BLUFF ROAD ON THE EAST SIDE OF JACKSONVILLE,
BC2487 'GO NORTH ON ST JOHNS BLUFF ROAD FOR 0.8 MI (1.3 KM) TO A PAVED ROAD
BC2487 'RIGHT AND A AIRPORT SIGN, TURN RIGHT AND GO EAST ON THE AIRPORT
BC2487 'ENTRANCE ROAD FOR 0.45 MI (0.72 KM) TO A PARKING LOT, BEAR LEFT AND GO
BC2487 'NORTHEAST ACROSS THE PARKING LOT TO A GATE NEAR THE NORTHEAST END OF A
BC2487 'FAA BUILDING. RADIO TOWER TO OPEN THE GATE, PASS THROUGH GATE,
BC2487 'CONTINUE AHEAD AND GO EAST FOR ABOUT 65 FT (19.8 M) TO THE APRON, TURN
BC2487 'RIGHT AND GO SOUTH-SOUTHEAST ACROSS THE APRON FOR 0.05 MI (0.08 KM) TO

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
THE APRONS SOUTH EDGE AND THE STATION JUST AHEAD IN THE GRASS. THE
STATION IS RECESSSED 4 CM, 183.5 FT (55.9 M) EAST-SOUTHEAST OF THE
SOUTH CORNER OF THE FAA BUILDING, 159.5 FT (48.6 M) SOUTHEAST OF THE
EAST CORNER OF THE FAA BUILDING, 86.4 FT (26.3 M) WEST-NORTHWEST OF
THE TAXIWAY CENTER, 47.9 FT (14.6 M) SOUTH OF THE SOUTH EDGE OF THE
APRON, 28.5 FT (8.7 M) SOUTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE
PAD FOR A TAXIWAY IDENTIFIER SIGN AND 1.0 FT NORTH OF A WITNESS POST.
THIS IS THE PRIMARY AIRPORT CONTROL STATION. DRL.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

AQ2650 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
AQ2650 ********************************************
AQ2650 FBN - This is a Candidate for Federal Base Network Control.
AQ2650 DESIGNATION - PALAPORT
AQ2650 PID - AQ2650
AQ2650 STATE/COUNTY - FL/PUTNAM
AQ2650 USGS QUAD - PALATKA (1992)

*CURRENT SURVEY CONTROL

AQ2650

| NAD 83(1990) - 29 39 41.46083(N) 081 41 18.40176(W) | ADJUSTED |
| NAVD 88 - 8.1 (meters) 27. (feet) | GPS OBS |

| X | 801,836.813 (meters) | COMP |
| Y | -5,488,642.214 (meters) | COMP |
| Z | 3,137,814.560 (meters) | COMP |
| LAPLACE CORR- | -1.87 (seconds) | DEFLEC96 |
| ELLIP HEIGHT- | -20.32 (meters) | GPS OBS |
| GEOID HEIGHT- | -28.36 (meters) | GEOID96 |

HORZ ORDER - B
ELLP ORDER - THIRD CLASS I

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.

The orthometric height was determined by GPS observations.

The X, Y, and Z were computed from the position and the ellipsoidal ht.

The Laplace correction was computed from DEFLEC96 derived deflections.

The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

The geoid height was determined by GEOID96.

AQ2650; SPC FL E - 590,547.243 133,353.342 MT 0.99999596 -0 20 26.5
AQ2650; UTM 17 - 3,281,477.732 433,376.082 MT 0.99965477 -0 20 26.5

Primary Azimuth Mark
GRID AZ

AQ2650; SPC FL E - PALAPORT AZ MK 123 12 56.0
AQ2650; UTM 17 - PALAPORT AZ MK 123 12 56.0

Superseceded Survey Control

NGVD 29 - 8.5 (meters) 28. (feet) GPS OBS

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ2650. Superseded values are not recommended for survey control.
AQ2650. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ2650. See file format.dat to determine how the superseded data were derived.
AQ2650
AQ2650_MARKER: I = METAL ROD
AQ2650_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AQ2650_STAMPING: PALAPORT 1988
AQ2650_PROJECTION: FLUSH
AQ2650_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AQ2650_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AQ2650+ SATELLITE: SATELLITE OBSERVATIONS - December 05, 1995
AQ2650_ROD/PIPE-DEPTH: 25.5 meters
AQ2650_SLEEVE-DEPTH : 0.91 meters
AQ2650
AQ2650 HISTORY - Date Condition Recov. By
AQ2650 HISTORY - 1988 MONUMENTED NGS
AQ2650 HISTORY - 19890425 GOOD
AQ2650 HISTORY - 19890523 GOOD
AQ2650 HISTORY - 19951205 GOOD NGS
AQ2650
AQ2650 STATION DESCRIPTION
AQ2650
AQ2650 DESCRIBED BY NATIONAL GEODETIC SURVEY 1988
AQ2650 THE STATION IS LOCATED ABOUT 4.18 KM (2.60 MI) NORTHWEST OF PALATKA,
AQ2650 AT THE KAY LARKIN AIRPORT, 0.16 KM (0.10 MI) SOUTH OF THE AIRPORT
AQ2650 BUILDING, BETWEEN RUNWAY 12-30 AND A TAXIWAY, IN SECTION 3, T 10 S, R
AQ2650 26 E. OWNERSHIP--CITY OF PALATKA, 201 N. SECOND STREET, PALATKA FL
AQ2650 32077, AL BUSH - CITY MANAGER, PHONE 904-329-0100, FIXED BASE
AQ2650 OPERATION -- CITY OF PALATKA, LESTER RUSSELL, ROBIN FLEMING, PHONE
AQ2650 329-0148, 329-0149. NOTE—PERMISSION MUST BE OBTAINED BEFORE ENTERING
AQ2650 AIRPORT.
AQ2650 TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAYS 19 AND
AQ2650 100 ON THE NORTHWEST SIDE OF PALATKA, GO WEST-NORTHWEST FOR 2.01 KM
AQ2650 (1.25 MI) ON HIGHWAY 100 TO A PAVED ROAD LEFT AND AIRPORT SIGN. TURN
AQ2650 LEFT AND GO SOUTH-SOUTHWEST FOR 0.16 KM (0.10 MI) ON THE PAVED ROAD TO
AQ2650 A GATE ON RIGHT, ON THE SOUTH SIDE OF A MAINTENANCE HANGAR (AIRPORT
AQ2650 BUILDING STRAIGHT AHEAD). TURN RIGHT, PASS THROUGH GATE, BEAR LEFT
AQ2650 AND GO SOUTHERLY FOR ABOUT 60 M (196.8 FT) ON AN APRON TO A RAMP. BEAR
AQ2650 LEFT AND GO SOUTHWESTERLY FOR ABOUT 50 M (164.0 FT) ON THE RAMP TO A
AQ2650 TAXIWAY. CONTINUE STRAIGHT AHEAD AND GO SOUTHWEST FOR 0.16 KM
AQ2650 (0.10 MI) ACROSS TAXIWAY, AIRCRAFT PARKING AREA AND ON A TAXIWAY TO
AQ2650 THE STATION ON LEFT.
AQ2650 THE STATION IS RECESSED 10 CM BELOW GROUND. LOCATED 71.17 M
AQ2650 (233.5 FT) SOUTH-SOUTHWEST FROM THE SOUTH-SOUTHWEST EDGE OF A TAXIWAY,
AQ2650 38.25 M (125.5 FT) EAST-NORtheast FROM THE APPROXIMATE CENTER OF A
AQ2650 TAXIWAY, 33.19 M (108.9 FT) SOUTH FROM THE SOUTHEASTERN CORNER OF A
AQ2650 0.91 M (3.0 FT) BY 1.22 M (4.0 FT) CONCRETE STORM DRAIN, 29.57 M
AQ2650 (97.0 FT) NORTH-NORtheast FROM THE NORTH CORNER OF A 0.91 M (3.0 FT)
AQ2650 SQUARE CONCRETE STORM DRAIN AND 29.57 M (97.0 FT) EAST FROM A BLUE
AQ2650 TAXIWAY LIGHT. NOTE—ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH
AQ2650 LOGO CAP.
AQ2650 DESCRIBED BY D.F. CALLAHAN.
AQ2650
AQ2650 STATION RECOVERY (1989)
AQ2650
AQ2650 RECOVERED 1989
AQ2650 RECOVERED IN GOOD CONDITION.
AQ2650
AQ2650 STATION RECOVERY (1989)
AQ2650 RECOVERED 1989
AQ2650 RECOVERED IN GOOD CONDITION.
AQ2650
AQ2650 STATION RECOVERY (1995)
AQ2650
AQ2650 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (NGS)
AQ2650 THE STATION IS LOCATED ABOUT 2.6 MI (4.2 KM) NORTHWEST OF PALATKA, AT
AQ2650 THE KAY LARKIN AIRPORT, ABOUT 0.1 MI (0.2 KM) SOUTH OF THE AIRPORT
AQ2650 BUILDING, IN THE TOP OF A SMALL MOUND SOUTHWEST OF A TIE DOWN AREA.
AQ2650 OWNERSHIP -- CITY OF PALATKA, 201 NORTH SECOND STREET, PALATKA, FL
AQ2650 32177, ALLEN BUSH - CITY MANAGER, TELEPHONE (904) 329-0100. FIXED
AQ2650 BASE OPERATION -- CITY OF PALATKA, BOB STURM - SUPERVISOR, KAY LARKIN
AQ2650 MUNICIPAL AIRPORT, ROUTE 1, BOX 8344, PALATKA, FL 32177, TELEPHONE
AQ2650 (904) 329-0148 OR 329-0149. NOTE -- PERMISSION MUST BE OBTAINED
AQ2650 BEFORE ENTERING AIRPORT. TO REACH THE STATION FROM THE INTERSECTION
AQ2650 OF STATE HIGHWAYS 19 AND 100 ON THE NORTHWEST SIDE OF PALATKA, GO
AQ2650 NORTHWEST FOR 1.2 MI (1.9 KM) ON STATE HIGHWAY 100 TO A SIDE ROAD LEFT
AQ2650 AND ENTRANCE TO THE AIRPORT. TURN LEFT AND GO SOUTHWEST FOR 0.15 MI
AQ2650 (0.24 KM) TO GATE ON RIGHT SIDE OF AIRPORT BUILDING. PASS THROUGH
AQ2650 GATE FOR ABOUT 25.9 M (85.0 FT) TO EDGE OF APRON AND TAXIWAY. BEAR
AQ2650 LEFT AND GO SOUTH ACROSS TAXIWAY AND AIRPLANE TIE DOWN AREA FOR 0.05
AQ2650 MI (0.08 KM) TO SOUTHERN EDGE OF TIE DOWN AREA AND THE STATION. THE
AQ2650 STATION IS SETTING ON TOP OF A MOUND ABOUT 0.46 M (1.51 FT) HIGHER
AQ2650 THAN THE SURROUNDING DRAINAGE AREA. IT IS 38.35 M (125.82 FT) EAST
AQ2650 FROM THE APPROXIMATE CENTER OF A TAXIWAY, 29.55 M (96.95 FT)
AQ2650 NORTH-NORTHEAST FROM THE NORTHWEST CORNER OF A 0.9 M (3.0 FT) SQUARE
AQ2650 CONCRETE STORM DRAIN, 29.6 M (97.1 FT) EAST FROM A BLUE TAXIWAY LIGHT,
AQ2650 13.37 M (43.86 FT) SOUTHWEST OF SOUTHERN EDGE OF TIE DOWN AREA, 12.4 M
AQ2650 (40.7 FT) WEST OF WEST CORNER OF A 0.6 M (2.0 FT) SQUARE CONCRETE
AQ2650 CABLE MARKER, AND 0.22 M (0.72 FT) EAST-SOUTHEAST OF A WITNESS POST.
AQ2650 NOTE -- A SHORT SECTION OF REBAR HAS BEEN PLACED INSIDE THE PVC PIPE.
AQ2650 NOTE -- ACCESS COVER LID IS BROKEN OFF BUT STILL COVERS THE MARK. THE
AQ2650 STATION IS AN AREA NAVIGATION APPROACH PRIMARY AIRPORT CONTROL
AQ2650 STATION.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

BC2491 *****************************************************
BC2491 CBN - This is a Cooperative Base Network Control Station.
BC2491 DESIGNATION - FLGPS 32
BC2491 PID - BC2491
BC2491 STATE/COUNTY- FL/DUVAL
BC2491 USGS QUAD - BAYARD (1993)

*CURRENT SURVEY CONTROL

BC2491

| NAD 83(1990) | 30 13 14.04589(N) 081 34 15.87654(W) | ADJUSTED
|---------------|-----------------------------------|---------
| NAVD 88       | 12.9 (meters) 42. (feet)           | GPS OBS |

BC2491

| X       | 808,545.156 (meters) | COMP |
| Y       | -5,456,396.056 (meters) | COMP |
| Z       | 3,191,517.512 (meters) | COMP |
| LAPLACE CORR- | -1.10 (seconds) | DEFLRC96 |
| ELLIP HEIGHT- | -15.46 (meters) | GPS OBS |
| GEOID HEIGHT- | -28.34 (meters) | GEOID96 |

| HORIZ ORDER | B |
| ELLP ORDER | FOURTH CLASS I |

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.

The orthometric height was determined by GPS observations.

The X, Y, and Z were computed from the position and the ellipsoidal ht.

The Laplace correction was computed from DEFLRC96 derived deflections.

The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

The geoid height was determined by GEOID96.

| SPC FL E | 652,455.009 145,023.963 MT 0.99997845 -0 17 14.8 |
| UTM 17 | 3,343,364.375 445,042.721 MT 0.99963726 -0 17 14.8 |

Primary Azimuth Mark

BC2491: SPC FL E - FLGPS 32 AZ MK
BC2491: UTM 17 - FLGPS 32 AZ MK

Reference Object

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SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/env.cgi

6/5/98
Data Sheet Retrieval

BC2491. Superseded values are not recommended for survey control.
BC2491. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC2491. See file format.dat to determine how the superseded data were derived.

BC2491
BC2491_MARKER: I = METAL ROD
BC2491_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
BC2491_STAMPING: FLGPS 32 1988
BC2491_PROJECTION: FLUSH
BC2491_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
BC2491_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
BC2491+SATELLITE: SATELLITE OBSERVATIONS - May 17, 1989
BC2491_ROD/PIPE-DEPTH: 25.4 meters
BC2491_SLEEVE-DEPTH : 0.91 meters

BC2491
BC2491_HISTORY - Date Condition Recov. By
BC2491_HISTORY - 1988 MONUMENTED NGS
BC2491_HISTORY - 19890426 GOOD
BC2491_HISTORY - 19890517 GOOD

BC2491

STATION DESCRIPTION

BC2491' DESCRIBED BY NATIONAL GEOFETIC SURVEY 1988
BC2491' THE STATION IS LOCATED IN THE SOUTHEAST PART OF JACKSONVILLE, AT THE
BC2491' INTERSECTION OF INTERSTATE HIGHWAY 95 AND STATE ROD 152, ON THE
BC2491' SOUTH-SOUTHEAST SIDE OF THE INTERSTATE HIGHWAY OVERPASS, IN THE
BC2491' INTERSTATE HIGHWAY MEDIAN. OWNERSHIP--HIGHWAY RIGHT-OF-WAY.
BC2491' THE STATION IS RECESSSED 10 CM BELOW GROUND. LOCATED 12.10 M
BC2491' (39.7 FT) WEST FROM THE GUARDRAIL ON THE WEST SIDE OF THE NORTHBOUND
BC2491' LANES OF INTERSTATE HIGHWAY, 5.64 M (18.5 FT) EAST-NORTHEAST FROM THE
BC2491' EAST EDGE OF PAVEMENT OF THE SOUTHBOUND LANES OF INTERSTATE HIGHWAY,
BC2491' 2.99 M (9.8 FT) SOUTH-SOUTHEAST FROM A CONCRETE GUARD WALL AND 2.80 M
BC2491' (9.2 FT) SOUTH FROM A CARSONITE WITNESS POST. NOTE--ACCESS TO DATUM
BC2491' POINT IS HAD THROUGH A 5-INCH LOGO CAP.
BC2491' DESCRIBED BY R.L. MALLOY.

BC2491

STATION RECOVERY (1989)

BC2491
BC2491'RECOVERED 1989
BC2491'RECOVERED IN GOOD CONDITION.

BC2491
BC2491
BC2491'RECOVERED 1989
BC2491'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:01

http://www.ngs.noaa.gov/cgi-bin/env_cgi
## The NGS Data Sheet

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

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AO0346.The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.  
AO0346.The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in May 1994.  
AO0346.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
AO0346.The Laplace correction was computed from DEFLEC96 derived deflections.  
AO0346.The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.  
AO0346.The geoid height was determined by GEOID96.  
AO0346.The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).  
AO0346.The modeled gravity was interpolated from observed gravity values.

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AO0346.SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
AQ0346 Superseded values are not recommended for survey control.
AQ0346 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0346 See file format.dat to determine how the superseded data were derived.

| AQ0346 | MARKER: DB = BENCH MARK DISK |
| AQ0346 | SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND) |
| AQ0346 | STAMPING: D 322 1970 |
| AQ0346 | STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO |
| AQ0346 | STABILITY: SURFACE MOTION |
| AQ0346 | SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR |
| AQ0346 | SATELLITE: SATELLITE OBSERVATIONS - March 24, 1991 |

| AQ0346 | HISTORY | Date | Condition | Recov. By |
| AQ0346 | HISTORY | 1970 | MONUMENTED | NGS |
| AQ0346 | HISTORY | 1978 | GOOD | FLDR |
| AQ0346 | HISTORY | 19881110 | GOOD | NGS |
| AQ0346 | HISTORY | 1989 | GOOD | USPSQD |
| AQ0346 | HISTORY | 1990 | GOOD | USPSQD |
| AQ0346 | HISTORY | 19910324 | GOOD | NGS |

AQ0346 STATION DESCRIPTION

AQ0346 DESCRIBED BY NATIONAL GEOFETIC SURVEY 1970
AQ0346 AT ST AUGUSTINE BEACH.
AQ0346 AT ST AUGUSTINE BEACH, ABOUT 200 YARDS NORTHEAST OF THE ST
AQ0346 AUGUSTINE BEACH FIRE DEPT. STATION, IN SECTION 34, R 30 E,
AQ0346 T 7 S, SET IN THE EAST END OF A MEDIAN STRIP AT NORTH EDGE OF A
AQ0346 LARGE PARKING LOT FOR THE ST. AUGUSTINE FISHING PIER, 120.0 FEET
AQ0346 NORTHWEST OF THE WEST END OF THE FISHING PIER, 80.7 FEET WEST OF
AQ0346 A NORTH-SOUTH CONCRETE SEAWALL, ABOUT 0.1 MILE EAST OF STATE
AQ0346 HIGHWAY A 1 A, 10 FEET WEST OF THE EAST END OF THE MEDIAN STRIP,
AQ0346 11/2 FEET EAST OF A LIGHTPOLE, ABOUT LEVEL WITH THE HIGHWAY AND
AQ0346 SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.

AQ0346 STATION RECOVERY (1978)

AQ0346 RECOVERY NOTE BY FL DEPT OF NAT RES 1978
AQ0346 RECOVERED IN GOOD CONDITION.

AQ0346 STATION RECOVERY (1988)

AQ0346 RECOVERY NOTE BY NATIONAL GEOFETIC SURVEY 1988
AQ0346 THE STATION IS LOCATED AT THE NORTH SIDE OF ST. AUGUSTINE BEACH, IN
AQ0346 THE EAST END OF A MEDIAN STRIP AT THE NORTH EDGE OF A LARGE PARKING
AQ0346 LOT FOR THE ST. JOHNS COUNTY FISHING PIER. OWNERSHIP--COUNTY OF ST.
AQ0346 JOHNS.
AQ0346 TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 1 (ponce De
AQ0346 Leon Blvd) AND STATE ROAD 312 ON THE SOUTH SIDE OF ST. AUGUSTINE, GO
AQ0346 EAST FOR 4.18 KM (2.60 MI) ON STATE ROAD 312, PASSING OVER THE
AQ0346 Intracoastal Waterway, TO THE INTERSECTION OF STATE ROADS 3 AND A1A.
AQ0346 CONTINUE STRAIGHT AHEAD FOR 1.93 KM (1.20 MI) ON STATE ROAD 312
AQ0346 (BECOMES STATE ROAD A1A) TO THE ST. JOHNS COUNTY FISHING PIER PARKING
AQ0346 LOT ON LEFT. TURN LEFT AND GO 0.16 KM (0.10 MI) TO THE EXTREME EAST
AQ0346 END OF THE PARKING LOT AND THE STATION ON LEFT, BETWEEN TWO HANDICAP
AQ0346 PARKING SIGNS, IN THE EAST END OF A MEDIAN STRIP THAT IS NORTHEAST OF
AQ0346 THE SNACK SHOP AND REST ROOMS.
AQ0346 LOCATED 24.60 M (80.7 FT) WEST FROM THE EAST EDGE OF SEAWALL, 24.38 M
AQ0346 (80.0 FT) SOUTHWEST FROM A CONCRETE LIGHT POLE, 21.00 M (68.9 FT)
AQ0346 NORTHWEST FROM THE NORTHWEST CORNER OF FISHING PIER, 12.59 M
AQ0346' (41.3 FT) EAST FROM A CONCRETE LIGHT POLE AND 7.32 M (24.0 FT) WEST 
AQ0346' FROM THE EASTERNMOST EDGE OF CURB FOR MEDIAN. 
AQ0346' DESCRIBED BY J.A. FERGUSON. 
AQ0346 
AQ0346' STATION RECOVERY (1989) 
AQ0346 
AQ0346' RECOVERY NOTE BY US POWER SQUADRON 1989 (JD) 
AQ0346' RECOVERED IN GOOD CONDITION. 
AQ0346 
AQ0346' STATION RECOVERY (1990) 
AQ0346 
AQ0346' RECOVERY NOTE BY US POWER SQUADRON 1990 (JD) 
AQ0346' RECOVERED IN GOOD CONDITION. 
AQ0346 
AQ0346' STATION RECOVERY (1991) 
AQ0346 
AQ0346' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991 
AQ0346' 9.8 KM (6.1 MI) NORTHERLY ALONG STATE HIGHWAY A1A (OCEAN SHORE 
AQ0346' BOULEVARD) FROM THE JUNCTION OF STATE HIGHWAY 206 IN CRESCENT BEACH, 
AQ0346' THEN 0.2 KM (0.1 MI) EASTERLY ALONG THE ENTRANCE ROAD TO THE SAINT 
AQ0346' JOHN'S COUNTY FISHING PIER, NEAR THE EAST END OF A GRASS MEDIAN, 21.0 
AQ0346' M (68.9 FT) NORTHWEST OF THE NORTHWEST CORNER OF THE PIER, 13.0 M 
AQ0346' (42.7 FT) EAST OF A UTILITY POLE, 10.5 M (34.4 FT) NORTH OF THE ROAD 
AQ0346' CENTER, 8.0 M (26.2 FT) WEST OF THE EAST END OF THE MEDIAN, 1.6 M 
AQ0346' (5.2 FT) SOUTH OF THE NORTH CURB OF THE MEDIAN, 1.5 M (4.9 FT) NORTH 
AQ0346' OF THE SOUTH CURB OF THE MEDIAN, 0.4 M (1.3 FT) EAST OF A WITNESS 
AQ0346' POST, 0.3 M (1.0 FT) ABOVE THE LEVEL OF THE ROAD, AND THE MONUMENT IS 
AQ0346' FLUSH WITH THE GROUND SURFACE. 

*** retrieval complete. 
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The NGS Data Sheet

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1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

BC0581 CBN - This is a Cooperative Base Network Control Station.
BC0581 DESIGNATION - DURBIN 2
BC0581 PID - BC0581
BC0581 STATE/COUNTY - FL/ST JOHNS
BC0581 USGS QUAD - DURBIN (1972)

BC0581

*CURRENT SURVEY CONTROL

| NAD 83(1990) | 30 05 19.83929(N) | 081 27 47.51758(W) | ADJUSTED |
| NAVD 88     | 17.357 (meters)  | 56.95 (feet)       | ADJUSTED |

BC0581

| X | 819,906.564 (meters) |
| Y | -5,462,121.830 (meters) |
| Z | 3,178,893.600 (meters) |

| LAPLACE CORR- | -1.23 (seconds) |
| ELLIP HEIGHT- | -10.99 (meters) |
| GEOID HEIGHT- | -28.35 (meters) |
| DYNAMIC HT   | 17.334 (meters) 65.87 (feet) |

| MODELED GRAV- | 979,343.2 (mgal) |
| HORZ ORDER   | B |
| VERT ORDER   | FIRST CLASS I |
| ELLIP ORDER  | FOURTH CLASS I |

BC0581. The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.

BC0581. The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

BC0581. The X, Y, and Z were computed from the position and the ellipsoidal ht.

BC0581. The Laplace correction was computed from DEFLEC96 derived deflections.

BC0581. The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

BC0581. The geoid height was determined by GEOID96.

BC0581. The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).

BC0581. The modeled gravity was interpolated from observed gravity values.

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**SUPERSEDED SURVEY CONTROL**

BC0581.Superseded values are not recommended for survey control.
BC0581.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC0581.See file format.dat to determine how the superseded data were derived.

**BC0581_MARKER**: DS = TRIANGULATION STATION DISK
**BC0581_SETTING**: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
**BC0581_STAMPING**: DURBIN 2 1972
**BC0581_STABILITY**: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
**BC0581+SATellite**: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
**BC0581+SATELLITE**: SATELLITE OBSERVATIONS - April 14, 1991

**BC0581_HISTORY** - Date  Condition     Recov. By
BC0581_HISTORY - 1972  MONUMENTED   NGS
BC0581_HISTORY - 1972  GOOD         NGS
BC0581_HISTORY - 1973  SEE DESCRIPTION NGS
BC0581_HISTORY - 1982  GOOD         LOCSUR
BC0581_HISTORY - 19881117 GOOD       NGS
BC0581_HISTORY - 19890426 GOOD       NGS
BC0581_HISTORY - 19910414 GOOD       NGS

**BC0581_STATION DESCRIPTION**

BC0581'DESCRIBED BY NATIONAL GEODETIC SURVEY 1972 (LPS)
BC0581'STATION IS ABOUT 15-1/2 MILES NORTHWEST OF SAINT AUGUSTINE,
BC0581'20-1/2 MILES SOUTHEAST OF JACKSONVILLE, 15 MILES NORTHEAST OF
BC0581'GREEN COVE SPRINGS, 5-1/2 MILES SOUTHEAST OF THE SMALL TOWN OF
BC0581'BOYARD, 3/4 MILE NORTHWEST OF THE SMALL SETTLEMENT OF DURBIN
BC0581'AND ON PROPERTY OF THE FLORIDA EAST COAST RAILWAY.

BC0581'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 1 AND
BC0581'STATE HIGHWAY 16 IN THE NORTH EDGE OF SAINT AUGUSTINE, GO
BC0581'NORTH AND NORTHWEST ON U.S. HIGHWAY 1 FOR 13.9 MILES TO THE
BC0581'JUNCTION OF STATE ROAD 210 IN DURBIN. CONTINUE NORTHWEST ON
BC0581'U.S. HIGHWAY 1 FOR 0.35 MILE TO THE DURBIN FOREST SERVICE TOWER
BC0581'ON RIGHT AND THE AZIMUTH MARK ON LEFT. CONTINUE NORTHWEST ON
BC0581'U.S. HIGHWAY 1 FOR 0.35 MILE TO STATION ON LEFT.

BC0581'STATION MARKS ARE STANDARD DISKS STAMPED DURBIN 2 1972. THE
BC0581'SURFACE DISK IS SET IN THE TOP OF A 12-INCH CYLINDRICAL
BC0581'CONCRETE MONUMENT THAT IS SET PLUSH WITH THE GROUND SURFACE. IT
BC0581'IS 133.5 FEET SOUTHWEST OF THE POWER LINE POLE 821, 79
BC0581'FEET NORTHEAST OF THE NORTHEAST RAIL OF THE TRACK, 67.7 FEET
BC0581' SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 1 (SOUTH BOUND LANE),
BC0581' 54 FEET WEST-NORTHWEST OF POWER LINE POLE 822, 2.8 FEET
BC0581' NORTHWEST OF A METAL WITNESS POST, 2.6 FEET SOUTHEAST OF A
BC0581' METAL WITNESS POST AND ON RAILROAD RIGHT-OF-WAY PROPERTY. THE
BC0581' UNDERGROUND MARK IS AN IRREGULAR MASS OF CONCRETE ABOUT
BC0581' 38-INCHES BELOW THE GROUND SURFACE.

BC0581' REFERENCE MARK 1, A STANDARD DISK STAMPED DURBEN NO 1 1933, IS
BC0581' SET IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT THAT
BC0581' PROJECTS 10-INCHES ABOVE THE GROUND SURFACE. IT IS 103 FEET
BC0581' NORTHEAST OF THE NORTHEAST RAIL OF THE TRACK, 44.5 FEET
BC0581' SOUTHWEST OF THE CENTER OF HIGHWAY, 2.4 FEET SOUTHEAST OF A
BC0581' POWER LINE POLE 2 1/2, 1.4 FEET NORTHWEST OF A METAL WITNESS
BC0581' POST AND ABOUT 1 FOOT HIGHER THAN THE STATION.

BC0581' REFERENCE MARK 2, A STANDARD DISK STAMPED DURBEN NO 2 1933, IS
BC0581' SET IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT THAT
BC0581' PROJECTS 12-INCHES ABOVE THE GROUND SURFACE. IT IS 104 FEET
BC0581' NORTHEAST OF THE NORTHEAST RAIL OF THE TRACK, 44 FEET
BC0581' SOUTHWEST OF THE CENTER OF THE HIGHWAY, 29.3 FEET NORTHWEST OF
BC0581' POWER LINE POLE 821, 1.2 FEET NORTHWEST OF A METAL WITNESS
BC0581' POST AND ABOUT 1 FOOT HIGHER THAN THE STATION.

BC0581' STATION DURBEN, 1933 (TEMPORARY POINT), IS THE TOP OF A 12-INCH
BC0581' STAR DRILL WITH A CROSS CHISELED IN THE TOP AND IS 3-INCHES
BC0581' BELOW THE GROUND SURFACE. IT IS 64.5 FEET SOUTH-SOUTHEAST OF
BC0581' A MAIL BOX, 41.5 FEET SOUTHEAST OF THE CENTER OF DRIVEWAY
BC0581' ENTRANCE, 41.3 FEET WEST OF A 20-INCH PINE TREE AND 1.0 FOOT
BC0581' NORTHEAST OF THE NORTHEAST EDGE OF HIGHWAY.

BC0581' AZIMUTH MARK, A STANDARD DISK STAMPED DURBEN 2 1972, IS SET
BC0581' IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT THAT IS SET
BC0581' FLUSH WITH THE GROUND SURFACE. IT IS 288.5 FEET SOUTHWEST OF
BC0581' TRIANGULATION STATION NIBRUD 1962, 103 FEET NORTHEAST OF THE
BC0581' NORTHEAST RAIL OF TRACK, 300 FEET SOUTHWEST OF THE DURBEN
BC0581' FOREST SERVICE TOWER, 44.5 FEET SOUTHWEST OF THE CENTER OF U.S.
BC0581' HIGHWAY 1 (SOUTH BOUND LANE), 26 FEET SOUTHEAST OF A POWER LINE
BC0581' POLE AND 1.1 FEET SOUTHEAST OF A METAL WITNESS POST.

BC0581' HEIGHT OF LIGHT ABOVE STATION MARK 1 METER.

BC0581

BC0581' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1972
BC0581' 15.5 MI NW FROM ST AUGUSTINE.
BC0581' 14.6 MILES NORTH AND NORTHWEST ALONG U.S. HIGHWAY 1 FROM ITS
BC0581' JUNCTION WITH STATE HIGHWAY 16 IN THE NORTH EDGE OF SAINT
BC0581' AUGUSTINE, 133.5 MILES SOUTHWEST OF POWER LINE POLE NUMBERED
BC0581' 821, 79 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE RAILROAD
BC0581' TRACK, 67.7 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 1
BC0581' (SOUTHBOUND LANE), 54 FEET WEST-NORTHWEST OF POWER LINE
BC0581' POLE 822, 2.8 FEET NORTHWEST OF A METAL WITNESS POST, 2.6 FEET
BC0581' SOUTHEAST OF A METAL WITNESS POST AND ON RAILROAD RIGHT-OF-WAY
BC0581' PROPERTY. A STANDARD DISK STAMPED DURBEN 2 1972, IS SET IN
BC0581' THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT THAT IS
BC0581' FLUSH WITH THE GROUND.

BC0581

STATION RECOVERY (1973)

BC0581

BC0581' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (CRB)
THE RECOVERY NOTE FOR 1972 CHANGES WAS NOT AVAILABLE AT THIS TIME, THEREFORE A COMPLETE NEW DESCRIPTION OF STATION FOLLOWS.

STATION IS LOCATED ABOUT 14 MILES NORTHWEST OF ST. AUGUSTINE AND 5 MILES SOUTH-SOUTHEAST OF BAYARD, IN A CLEARED AREA BETWEEN THE SOUTHBOUND LANE OF U.S. ROUTE 1 AND THE SEABOARD COAST LINE RAILROAD.

TO REACH STATION FROM THE POST OFFICE AT BAYARD, GO SOUTH-SOUTHEAST ON U.S. ROUTE 1 FOR 4.95 MILES TO STATION ON RIGHT, SOUTH-SOUTHWEST OF U.S. ROUTE 1. AZIMUTH MARK IS REACHED BY CONTINUING SOUTHEAST ON U.S. ROUTE 1 FOR 0.4 MILE TO MONUMENT ON RIGHT, SOUTHWEST SIDE OF U.S. ROUTE 1.

STATION MARK IS A STANDARD DISK, STamped DURBIN 2 1972, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT IS FLUSH WITH THE GROUND. IT IS 2.5 FEET SOUTH-SOUTHEAST OF A METAL WITNESS POST, 2.8 FEET NORTH-NORTHWEST OF ANOTHER METAL WITNESS POST AND 67.6 FEET SOUTHWEST OF CENTER OF SOUTHBOUND LANE OF U.S. ROUTE 1.

REFERENCE MARK NUMBER 1 IS A STANDARD DISK, STamped DURBIN NO 1 1933, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 4 INCHES ABOVE THE GROUND. IT IS 1.0 FOOT NORTH-NORTHWEST OF A METAL WITNESS POST AND 44.2 FEET SOUTHWEST OF CENTER OF SOUTHBOUND LANE OF U.S. ROUTE 1.

REFERENCE MARK NUMBER 2 IS A STANDARD DISK, STamped DURBIN NO 2 1933, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 12 INCHES ABOVE THE GROUND. IT IS 1.1 FEET NORTH-NORTHWEST OF A METAL WITNESS POST AND 44.3 FEET SOUTHWEST OF CENTER OF SOUTHBOUND LANE OF U.S. ROUTE 1.

AZIMUTH MARK IS A STANDARD DISK, STamped DURBIN 1 1972, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 3 INCHES ABOVE THE GROUND. IT IS 1.0 FOOT EAST OF A METAL WITNESS POST AND 44.3 FEET WEST-SOUTHWEST OF CENTER OF SOUTHBOUND LANE OF U.S. ROUTE 1.

NOTE—THIS MONUMENT HAS BEEN BADLY BATTERED BY MOWING EQUIPMENT.

DISTANCE BETWEEN REFERENCE MARK NUMBER 1 AND REFERENCE MARK NUMBER 2 IS 86.835 METERS, OR 284.89 FEET.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN 4.95 MILES SSE OF BAYARD, FLORIDA.

STATION RECOVERY (1982)

RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982 RECOVERED IN GOOD CONDITION.

STATION RECOVERY (1988)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988 THE STATION IS LOCATED ABOUT 22.53 KM (14.00 MI) NORTHWEST OF ST. AUGUSTINE, 8.05 KM (5.00 MI) SOUTH-SOUTHEAST OF BAYARD, BETWEEN THE SOUTHBOUND LANE OF U.S. HIGHWAY 1 AND THE SEABOARD COAST LINE RAILROAD. OWNERSHIP—RAILROAD RIGHT-OF-WAY.

TO REACH THE STATION FROM THE POST OFFICE IN BAYARD, GO SOUTH-SOUTHEAST FOR 7.97 KM (4.95 MI) ON U.S. HIGHWAY 1 TO THE STATION.
BC0581 'ON RIGHT.
BC0581 'LOCATED 25.57 M (83.9 FT) WEST FROM A ST JOHNS CO RD 210 EAST SIGN,
BC0581 '20.57 M (67.5 FT) SOUTHWEST FROM THE APPROXIMATE CENTER OF THE U.S.
BC0581 'HIGHWAY 1 SOUTHBOUND LANE, 20.21 M (66.3 FT) EAST-SOUTHEAST FROM A
BC0581 '1.21 M (4.0 FT) TALL CONCRETE NO TRESPASSING SIGN, 11.09 M (36.4 FT)
BC0581 'NORTH-NORTHEAST FROM A 6.1 M (20.0 FT) TALL PINE TREE, 0.85 M
BC0581 ' (2.8 FT) NORTHWEST FROM A METAL WITNESS POST (PLAQUE MISSING) AND 0.79
BC0581 'M (2.6 FT) SOUTHEAST FROM A METAL WITNESS POST.
BC0581 'DESCRIBED BY F.W. ROSSMANN.

BC0581
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BC0581

BC0581 'RECOVERED 1989
BC0581 'RECOVERED 1991
BC0581 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
BC0581 '23.4 KM (14.5 MI) NORTHWESTERLY ALONG U.S. HIGHWAY 1 FROM THE JUNCTION
BC0581 'OF STATE HIGHWAY 16 IN SAINT AUGUSTINE, 0.2 KM (0.1 MI) NORTHWEST OF
BC0581 'THE INTERSECTION OF COUNTY ROAD 210 EAST, 49.4 M (162.1 FT)
BC0581 'SOUTH-SOUTHEAST OF REFERENCE MARK 2, 38.4 M (126.0 FT) WEST-NORTHWEST
BC0581 'OF REFERENCE MARK 1, 20.6 M (67.6 FT) SOUTHWEST OF THE CENTERLINE OF
BC0581 'THE SOUTHBOUND LANES OF THE HIGHWAY, 0.7 M (2.3 FT) SOUTHEAST OF A
BC0581 'WITNESS POST, 0.6 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY, AND THE
BC0581 'MONUMENT IS FLUSH WITH THE GROUND SURFACE.

*** retrieval complete.
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1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

**This is a Cooperative Base Network Control Station.**

A0431的设计 - PELLICER RESET
A0431 PID - A0431
A0431 STATE/COUNTY - FL/ST JOHNS
A0431 USGS QUAD - DINNER ISLAND NE (1992)

*CURRENT SURVEY CONTROL

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- North: 589,834.662, East: 169,188.773, Units: MT, Scale: 0.99995289, Convergence: 00 09 26.9
- Primary Azimuth Mark: Grid Az
- NAD 83(1990): 081 19 05.73712
- PELLICER AZ MK 3: 081 10 14.9

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
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<td>METERS 27442</td>
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SUPERSEDED SURVEY CONTROL

SUPERSEDED SURVEY CONTROL

NAD 83(1986) - 29 39 23.38480(N) 081 19 05.74779(W) ADJUSTED
NAD 27 - 29 39 22.48690(N) 081 19 06.50130(W) ADJUSTED
NGVD 29 - 10.370 (meters) 34.02 (feet) ADJ UNCH

SUPERSEDED SURVEY CONTROL

MARKER: DS = TRIANGULATION STATION DISK
SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
STAMPING: PELLICER 1934 1962
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
SATURATION: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
SATELLITE: SATELLITE OBSERVATIONS - April 25, 1989

HISTORY - Date Condition Recov. By
HISTORY - 1934 MONUMENTED CGS
HISTORY - 1952 GOOD CGS
HISTORY - 1955 GOOD CGS
HISTORY - 1962 SER DESCRIPTION CGS
HISTORY - 1973 GOOD NGS
HISTORY - 1973 GOOD FLDT
HISTORY - 19881118 GOOD NGS
HISTORY - 19890425 GOOD
HISTORY - 1990 GOOD USPSQD

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (RDH)
TO REACH FROM BUNNELL, GO N ON U.S. HIGHWAY 1 (STATE
HIGHWAY 4) FOR 13.2 MILES TO A SMALL STORE AND GAS
STATION ON THE W SIDE OF THE HIGHWAY AND ON THE S SIDE
OF A HARD SURFACE ROAD W ABOUT 1/2 MILE N OF PELLICER
CREEK. AT THE STORE TURN W ON THE HARD ROAD AND GO
1 MILE TO THE RAILROAD AND SAW MILL. CONTINUE STRAIGHT
AHBAD FOR 1 MILE FROM THE GRADE CROSSING TO THE STATION.
STATION IS 75 FEET S OF THE CENTER LINE OF THE SAND ROAD,
40 FEET S OF THE ROAD DITCH, 250 YARDS E OF A GROVE OF
TREES ON EACH SIDE OF THE ROAD, 40 FEET NNW OF BLAZED
PINE.
SURFACE, UNDERGROUND, AND REFERENCE MARKS ARE STANDARD

BRONZE DISKS SET IN CONCRETE.

STATION MARK PROJECTS ONE FOOT ABOVE THE SURFACE OF THE GROUND.


THERE ARE NO PROMINENT OBJECTS VISIBLE FROM THE GROUND AT THIS STATION.

THE AZIMUTH MARK IS VISIBLE FROM THE GROUND AT THE STATION.

A 103-FOOT TOWER IS SUFFICIENT TO CLEAR ALL LINES AT THIS STATION.

STATION RECOVERY (1952)

RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1952 (PT)

THE STATION MARK, REFERENCE MARKS, AND AZIMUTH MARK WERE RECOVERED IN GOOD CONDITION. THE DISTANCES TO THE REFERENCE MARKS WERE MEASURED WITH A STEEL TAPE AND FOUND TO BE CORRECT. THE ORIGINAL DESCRIPTION IS INADEQUATE. A COMPLETE NEW DESCRIPTION FOLLOWS--

THE STATION IS LOCATED 8.6 MILES SOUTHWEST OF DUPONT CENTER AND 1.85 MILES WEST OF U.S. HIGHWAY NO. 1 ALONG THE ROAD LEADING FROM U.S. HIGHWAY NO. 1 TO HASTINGS, ABOUT 300 YARDS EAST OF THE CRESCENT OF AN OAK-COVERED SAND RIDGE, 279.0 FEET EAST OF THE INTERSECTION OF A SAND ROAD LEADING SOUTHWEST, 62.0 FEET SOUTH OF THE CENTER OF THE HASTINGS ROAD, AND 26.6 FEET SOUTH OF A BLAZED 6 INCH PINE. THE STATION IS MARKED BY A STANDARD DISK, STAMPED PELLICER 1934, SET IN A 10 INCH ROUND CONCRETE MONUMENT PROJECTING 4 INCHES.

REFERENCE MARK NO. 1 IS NORTHEAST OF THE STATION, ON THE NORTH EDGE OF THE ROAD DITCH, 39.5 FEET NORTH OF THE CENTER OF THE ROAD, AND 19.1 FEET SOUTHEAST OF A BLAZED 10-INCH PINE. THE MARK IS A STANDARD DISK, STAMPED PELLICER NO. 1, 1934, SET IN A 10-INCH ROUND CONCRETE MONUMENT, PROJECTING 4 INCHES.

REFERENCE MARK NO. 2 (AZIMUTH MARK) IS 0.18 MILE EAST OF THE STATION, ON THE NORTH EDGE OF THE ROAD DITCH, AND 28.0 FEET NORTH OF CENTER OF ROAD. THE MARK IS A STANDARD DISK, STAMPED PELLICER NO. 2, 1934, SET IN A 10-INCH ROUND CONCRETE MONUMENT PROJECTING 6 INCHES.
REFERENCE MARK NO. 3 IS WEST OF THE STATION, 118.0 FEET EAST OF THE INTERSECTION OF A SAND ROAD LEADING SOUTHWEST, AND 34.7 FEET SOUTH OF THE CENTER OF THE HASTINGS ROAD. THE MARK IS A STANDARD DISK, STAMPED PELLICER NO 3, 1934, SET IN A 10-INCH ROUND CONCRETE MONUMENT AND PROJECTING 6 INCHES.

TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY NO. 1 AND STATE SECONDARY ROAD 206 AT DUPONT CENTER, TRAVEL SOUTH ON HIGHWAY NO. 1 6.9 MILES TO A ROAD LEADING WEST TO HASTINGS, PROCEED ALONG HASTINGS ROAD 1.85 MILES TO STATION SITE.

STATION RECOVERY (1955)

COAST AND GEODETIC SURVEY 1955 (IRE) RECOVERY NOTE. THE ROAD BY THE STATION IS RELOCATED. REFERENCE MARKS NOS. 1 AND 2 (AZIMUTH MARK) WERE FOUND DESTROYED. REFERENCE MARK NO. 3 AND AZIMUTH RESET WERE SET AT THIS TIME.

FROM BUNNELL, GO N ON NO. 1 U.S. HIGHWAY FOR 13.2 MILES OR ABOUT ONE-HALF MILE PAST PELLICER CREEK TO A CROSROADS 6.9 MILES S ALONG THE HIGHWAY FROM DUPONT CENTER, THENCE ON COUNTY ROAD 1.9 MILES TO THE STATION ON THE LEFT, 558 FEET E OF THE CENTER OF T-ROAD TO A CEMETERY, AND 61 FEET S OF THE CENTER OF THE NEW ROAD. THE MARK PROJECTS 0.4 FOOT AND THE DISK IS STAMPED PELLICER 1934.

REFERENCES MARK NO. 3 IS 165.00 FEET W (TRUE AZIMUTH 42 DEG 42 MIN 06 SEC) FROM THE STATION AND 34 FEET S OF THE CENTER OF THE ROAD. THE MARK PROJECTS 0.5 FOOT AND THE DISK IS STAMPED PELLICER NO 3 1955.


STATION RECOVERY (1962)

RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1962 (SCM) STATION MARK WAS RECOVERED. ALL OTHER MARKS WERE SEARCHED FOR BUT COULD NOT BE LOCATED.

STATION SURFACE MARK WAS NOTED TO HAVE BEEN HIT AND LEANING. IT WAS DESTROYED AND A NEW SURFACE MARK WAS SET, HOLDING THE SUB-SURFACE MARK DISK AS TRUE POINT.

A NEW AZIMUTH MARK AND TWO NEW REFERENCE MARKS, 4 AND 5 HAVE BEEN ESTABLISHED.

A COMPLETE NEW DESCRIPTION FOLLOWS.

STATION IS LOCATED ABOUT 13-1/2 MILES NORTH-NORTHWEST OF BUNNELL, 17 MILES SOUTH-SOUTHWEST OF SAINT AUGUSTINE,
AQ0431'2 MILES WEST OF U.S. HIGHWAY 1, ON THE SOUTH SIDE OF AQ0431'STATE ROUTE 204 AND ON PROPERTY OWNED BY THE RAYONIER AQ0431'SOUTHWEST TIMBER DIVISION COMPANY.
AQ0431'
AQ0431'STATION IS REACHED FROM THE JUNCTION OF U.S. HIGHWAY 1 AQ0431'AND STATE ROUTE 204 WHICH IS ABOUT 14-1/2 MILES NORTH AQ0431'OF BUNNELL. GO WEST ON STATE ROUTE 204 FOR 0.85 MILE AQ0431'TO A RAILROAD TRACK. CROSS THE TRACK AND CONTINUE WEST, AQ0431'ON 204 FOR 0.75 MILE TO THE AZIMUTH MARK ON THE RIGHT. CONTINUE AQ0431'WEST, ON 204 FOR 0.25 MILE TO THE STATION ON THE LEFT.
AQ0431'
AQ0431'ALL MARKS ARE STANDARD DISKS, SET IN THE TOP OF SQUARE AQ0431'CONCRETE MONUMENTS.
AQ0431'
AQ0431'STATION MARK IS STAMPED PELLICER 1934 1962, PROJECTS AQ0431'ABOUT 4 INCHES. IT IS 61 FEET SOUTH AQ0431'OF THE CENTER OF STATE ROUTE 204 AND 7.3 FEET NORTH OF AQ0431'A WOOD WITNESS POST WITH A METAL WITNESS SIGN ATTACHED.
AQ0431'
AQ0431'REFERENCE MARK NUMBER 4 IS STAMPED PELLICER NO 4 1934 AQ0431'1962, PROJECTS ABOUT 3 INCHES. IT IS 43 AQ0431'FEET NORTH OF ROUTE 204.
AQ0431'
AQ0431'REFERENCE MARK NUMBER 5 IS STAMPED PELLICER NO 5 1934 AQ0431'1962, PROJECTS ABOUT 4 INCHES. IT IS 45 FEET AQ0431'SOUTH OF ROUTE 204.
AQ0431'
AQ0431'AZIMUTH MARK IS STAMPED PELLICER 1934 1962, PROJECTS AQ0431'ABOUT 5 INCHES. IT IS 45 FEET NORTH OF AQ0431'THE CENTER OF STATE ROUTE 204 AND 2.1 FEET NORTH OF A AQ0431'WOOD WITNESS POST WITH A METAL WITNESS SIGN ATTACHED.
AQ0431'
AQ0431'A TRAVERSE CONNECTION WAS MADE TO PELLICER RMA.
AQ0431'
AQ0431'HEIGHT OF LIGHT ABOVE STATION MARK 34 METERS.
AQ0431'
AQ0431' 
AQ0431'STATION RECOVERY (1973)
AQ0431'
AQ0431'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (CBM)
AQ0431'STATION LOCATION AND TO REACH AS DESCRIBED BY S. C. MILLER AQ0431'IN 1962 IS ADEQUATE.
AQ0431'
AQ0431'
AQ0431'A SMALL DIFFERENCE IN DISTANCE AND DIRECTION TO REFERENCE AQ0431'MARKS WAS NOTED, BEING SHOWN ABOVE.
AQ0431'
AQ0431'DISTANCE BETWEEN REFERENCE MARK NUMBER 4 AND REFERENCE AQ0431'MARK NUMBER 5 IS 39.730 METERS, OR 130.35 FEET.
AQ0431'
AQ0431'STATION RECOVERY (1973)
AQ0431'
AQ0431'RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 1973
AQ0431 '26.8 MI S FROM ST AUGUSTINE.
AQ0431 'FROM THE INTERSECTION OF U.S. 1 AND STATE ROAD 16 IN ST.
AQ0431 'AUGUSTINE PROCEED WEST ON STATE ROAD 16 FOR ABOUT 5.4 MILES
AQ0431 'TO INTERSTATE ROUTE 95 THEN SOUTH ON INTERSTATE ROUTE 95 FOR
AQ0431 'ABOUT 19.2 MILES TO U.S. 1 THEN SOUTH ON U.S. 1 FOR ABOUT
AQ0431 '0.3 MILES TO STATE ROAD 204 THEN WEST ON STATE ROAD 204 FOR ABOUT
AQ0431 '1.9 MILES AND STATION MARK, WHICH IS SET IN THE TOP OF A CONCRETE
AQ0431 'MONUMENT 4 INCHES ABOVE THE GROUND. IT IS 61.0 FEET SOUTH
AQ0431 'OF CENTERLINE OF STATE ROAD 204, AND 2.3 FEET SOUTH OF A METAL
AQ0431 'WITNESS POST. SECTION 6, T 10S, R 30E
AQ0431
AQ0431
STATION RECOVERY (1988)

AQ0431 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988
AQ0431 'THE STATION IS LOCATED ABOUT 27.36 KM (17.00 MI) SOUTH-SOUTHWEST OF
AQ0431 'ST. AUGUSTINE, 21.73 KM (13.50 MI) NORTH-NORTHWEST OF BUNNELL, 3.22 KM
AQ0431 'WELL WEST OF U.S. HIGHWAY 1, ON THE SOUTH SIDE OF COUNTY ROAD
AQ0431 '204.
AQ0431 'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 1 AND COUNTY
AQ0431 'ROAD 204, ABOUT 23.33 KM (14.50 MI) NORTH OF BUNNELL, GO WEST FOR 1.37
AQ0431 'KM (0.85 MI) ON COUNTY ROAD 204 TO A RAILROAD TRACK. CROSS TRACK AND
AQ0431 'CONTINUE WEST FOR 1.61 KM (1.00 MI) ON COUNTY ROAD 204 TO THE STATION
AQ0431 'ON LEFT.
AQ0431 'LOCATED 18.84 M (61.8 FT) SOUTH FROM THE APPROXIMATE CENTER OF COUNTY
AQ0431 'ROAD 204, 2.35 M (7.7 FT) NORTH FROM A 15-CM WOOD FENCE POST WITH
AQ0431 'WITNESS PLAQUE ATTACHED AND 0.67 M (2.2 FT) SOUTH FROM A METAL WITNESS
AQ0431 'POST.

AQ0431 'DESCRIBED BY F.W. ROSSMANN.
AQ0431
AQ0431
STATION RECOVERY (1989)

AQ0431 'RECOVERED 1989
AQ0431 'RECOVERED IN GOOD CONDITION.

AQ0431

STATION RECOVERY (1990)

AQ0431

AQ0431 'RECOVERY NOTE BY US POWER SQUADRON 1990 (JD)
AQ0431 'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04
The NGS Data Sheet

**DATABASE** = Sybase, **PROGRAM** = datasheet, **VERSION** = 5.60

Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

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*CURRENT SURVEY CONTROL*

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The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1990.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in May 1994.

The X, Y, and Z were computed from the position and the ellipsoidal ht.

The Laplace correction was computed from DEFLEC96 derived deflections.

The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

The geoid height was determined by GEOID96.

The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).

The modeled gravity was interpolated from observed gravity values.

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Primary Azimuth Mark: Grid Az

Station: STAUPORT AZ MK

Elevation: 306 56 13.9
SUPERSEDED SURVEY CONTROL

NGVD 29 - 1.760 (meters) 5.77 (feet) ADJUSTED

Marker: I = METAL ROD
Setting: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT. +)
Stamping: STAUPORT 1988
Projection: FLUSH
Stability: B = PROBABLY HOLD POSITION/ELEVATION WELL
Satellite: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
Satellite Observations: April 12, 1991
Rod/pipe-depth: 21.9 meters
Sleeve-depth: 0.91 meters

History - Date Condition Recov. By
History - 1988 MONUMENTED NGS
19890425 GOOD
History - 19890523 GOOD
19910412 GOOD NGS

Station Description

Described by National Geodetic Survey 1988

The station is located about 7.24 KM (4.50 MI) north-northwest of St. Augustine, at the St. Augustine Airport, in the east angle of a triangle formed by runways 13-31, 02-20 and 06-24. 0.24 KM (0.15 MI) east-southeast of the Vortac building. Ownership: St. Augustine Airport Authority, 270 Estrella Avenue, St. Augustine, FL 32084, A.H.
Craik - Executive Director, Phone 904-824-9355. Note -- Permission must be obtained before entering airport.

To reach the station from the junction of U.S. Highway 1 and State Highway 16 on the north side of St. Augustine, go north-northwest for 4.18 KM (2.60 MI) on highway 1 to a paved road right. Turn right and go northeast for 30 M (98.4 FT) on Estrella Ave to a paved road left. (To reach airport authority, continue ahead for 0.40 KM (0.25 MI) on Estrella Ave to the building on left). Turn left and go northeast for 30 M (98.4 FT) on the paved road to a locked gate (card key required).
Pass through gate, continue straight ahead and go northwest for 0.08 KM (0.05 MI) on the paved road to a paved ramp right. Turn right and go northeast for 0.24 KM (0.15 MI) on the ramp to a paved ramp left.
Turn left and go northwest for 30 M (98.4 FT) on the ramp to a taxiway. Turn right and go northeast for 0.32 KM (0.20 MI) on the taxiway to a paved ramp left. Turn left and go northwest for 30 M (98.4 FT) on the ramp to runway 06-24. Cross runway, turn right and go northeast for 0.24 KM (0.15 MI) along the runway edge to the station on left.

The station is recessed 12 CM below ground. Located 86.11 M.
282.5 FT southwest from the approximate center of runway 13-31.
79.80 M (261.8 FT) southeast from the southeastern corner of a 1.31 M

http://www.ngs.noaa.gov/cgi-bin/ds_desig
AQ2652 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AQ2652 '4.2 KM (2.6 MI) NORTHEASTERLY ALONG U.S. HIGHWAY 1 FROM THE JUNCTION
AQ2652 'OF STATE HIGHWAY 16 IN SAINT AUGUSTINE, THENCE 0.1 KM (0.1 MI)
AQ2652 'NORTHEASTERLY ALONG ESTRELLA AVENUE, THENCE 0.1 KM (0.1 MI)
AQ2652 'NORTHEASTERLY ALONG A PAVED ROAD, THENCE 0.1 KM (0.1 MI) NORTHEASTERLY
AQ2652 'ALONG A PAVED ROAD, THENCE 0.1 KM (0.1 MI) NORTHEASTERLY ALONG A
AQ2652 'PAVED RAMP, THENCE 0.6 KM (0.4 MI) NORTHEASTERLY ALONG RUNWAY 6-24,
AQ2652 '86.0 M (282.2 FT) SOUTHWEST OF THE CENTERLINE OF RUNWAY 13-34, 76.8 M
AQ2652 '252.0 FT) SOUTH OF A RUNWAY LIGHT, 74.0 M (242.8 FT) NORTH-NORTHWEST
AQ2652 'OF A RUNWAY LIGHT, 71.2 M (233.6 FT) NORTH-NORTHWEST OF AND LEVEL
AQ2652 'WITH THE CENTERLINE OF RUNWAY 6-24, 66.2 M (217.2 FT) NORTHWEST OF A
AQ2652 'RUNWAY LIGHT, 60.4 M (198.2 FT) SOUTHWEST OF A RUNWAY LIGHT, AND 1.0
AQ2652 'M (3.3 FT) NORTH OF A WITNESS POST. NOTE--ACCESS TO THE DATUM POINT
AQ2652 'IS THROUGH A 5-INCH LOGO CAP.

1  National Geodetic Survey, Retrieval Date = JUNE 5, 1998
AQ2694 **************************************************
AQ2694 DESIGNATION - STAUPORT A2 MK
AQ2694 PID - AQ2694
AQ2694 STATE/COUNTY- FL/ST JOHNS
AQ2694 USGS QUAD - ST AUGUSTINE
AQ2694

CURRENT SURVEY CONTROL

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AQ2694. The horizontal coordinates were established by GPS observations
AQ2694 and adjusted by the National Geodetic Survey in February 1991.
AQ2694
AQ2694. The orthometric height was determined by differential leveling

http://www.ngs.noaa.gov/cgi-bin/ds_desig
Data Sheet Retrieval by Area

AQ2694. and adjusted by the National Geodetic Survey in May 1994.
AQ2694. WARNING-GPS observations at this control monument resulted in a GPS
AQ2694. derived orthometric height which differed from the leveled height by
AQ2694. more than one decimeter (0.1 meter).
AQ2694
AQ2694. The Laplace correction was computed from DEFLEC96 derived deflections.
AQ2694
AQ2694. The geoid height was determined by GEOID96.
AQ2694
AQ2694. The dynamic height is computed by dividing the NAVD 88
AQ2694. geopotential number by the normal gravity value computed on the
AQ2694. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ2694. degrees latitude (G = 980.6199 gals.).
AQ2694
AQ2694. The modeled gravity was interpolated from observed gravity values.
AQ2694

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SUPERSEDED SURVEY CONTROL

AQ2694

AQ2694. Superseded values are not recommended for survey control.
AQ2694. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ2694. See file format.dat to determine how the superseded data were derived.
AQ2694

AQ2694_MARKER: I = METAL ROD
AQ2694_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AQ2694_STAMPING: STAUPORT AZ MK 1988
AQ2694_PROJECTION: FLUSH
AQ2694_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AQ2694_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AQ2694+SATELLITE: SATELLITE OBSERVATIONS - April 12, 1991
AQ2694_ROD/PIPE-DEPTH: 33.3 meters
AQ2694_SLEEVE-DEPTH : 0.91 meters

AQ2694

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AQ2694

STATION DESCRIPTION

AQ2694

AQ2694"DESCRIBED BY NATIONAL GEODETIC SURVEY 1988
AQ2694"THE STATION IS LOCATED ABOUT 8.05 KM (5.00 MI) NORTH-NORTHWEST OF ST.
AQ2694"AUGUSTINE, AT THE ST. AUGUSTINE AIRPORT, IN THE NORTH ANGLE OF A
AQ2694"TRIANGLE FORMED BY RUNWAYS 13-31, 02-20 AND A TAXIWAY. OWNERSHIP--ST.
AQ2694"AUGUSTINE AIRPORT AUTHORITY, 270 ESTRELLA AVENUE, ST. AUGUSTINE FL

http://www.ngs.noaa.gov/cgi-bin/ds_desig

6/5/98
AQ2694'32084, A.H. CRAIG - EXECUTIVE DIRECTOR, PHONE 904-824-9355.
AQ2694'NOTE--PERMISSION MUST BE OBTAINED BEFORE ENTERING AIRPORT.
AQ2694'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 1 AND STATE
AQ2694'HIGHWAY 16 ON THE NORTH SIDE OF ST. AUGUSTINE, GO NORTH-NORTHWEST FOR
AQ2694'4.18 KM (2.60 MI) ON HIGHWAY 1 TO A PAVED ROAD RIGHT. TURN RIGHT AND
AQ2694'GO NORTHEAST FOR 30 M (98.4 FT) ON ESTRELLA AVE TO A PAVED ROAD LEFT
AQ2694' (TO REACH AIRPORT AUTHORITY, CONTINUE AHEAD FOR 0.40 KM (0.25 MI) ON
AQ2694'ESTRELLA AVE TO THE BUILDING ON LEFT). TURN LEFT AND GO NORTHWEST FOR
AQ2694'30 M (98.4 FT) ON THE PAVED ROAD TO A LOCKED GATE (CARD KEY REQUIRED).
AQ2694'PASS THROUGH GATE, CONTINUE STRAIGHT AHEAD AND GO NORTHWEST FOR 0.08
AQ2694'KM (0.05 MI) ON THE PAVED ROAD TO A PAVED RAMP RIGHT. TURN RIGHT AND
AQ2694'GO NORTHEAST FOR 0.24 KM (0.15 MI) ON THE RAMP TO A PAVED RAMP LEFT.
AQ2694'TURN LEFT AND GO NORTHWEST FOR 0.08 KM (0.05 MI) ON THE RAMP TO RUNWAY
AQ2694'06-24. CONTINUE STRAIGHT AHEAD AND GO NORTH-NORTHWEST FOR 0.89 KM
AQ2694'(0.55 MI) ON A TAXIWAY, CROSSING RUNWAYS 06-24 AND 02-20, TO THE
AQ2694'STATION ON RIGHT.
AQ2694'THE STATION IS RECESSSED 11 CM BELOW GROUND. LOCATED 181.36 M
AQ2694'(595.0 FT) NORTHWEST FROM THE WINDSOCK POLE, 80.31 M (263.5 FT)
AQ2694'SOUTHWEST FROM THE APPROXIMATE CENTER OF RUNWAY 13-31, 63.55 M
AQ2694'(208.5 FT) SOUTH FROM THE SECOND RUNWAY LIGHT THAT IS SOUTHEAST OF THE
AQ2694'JUNCTION OF RUNWAY 13-31 AND TAXIWAY, 58.03 M (190.4 FT)
AQ2694'WEST-SOUTHWEST FROM THE THIRD RUNWAY LIGHT THAT IS SOUTHEAST OF THE
AQ2694'JUNCTION OF RUNWAY 13-31 AND TAXIWAY, 56.39 M (185.0 FT) SOUTHEAST
AQ2694'FROM THE SOUTH-SOUTHEAST SIGNPOST FOR A YELLOW WOODEN SIGN (NO ENGINE
AQ2694'RUNUP BETWEEN SIGNS), 56.24 M (184.5 FT) EAST-NORTHEAST FROM THE
AQ2694'APPROXIMATE CENTER OF TAXIWAY AND 48.46 M (159.0 FT) NORTHEAST FROM A
AQ2694'20-CM METAL PIPE COVER INSCRIBED MONITORING WELL. NOTE--ACCESS TO
AQ2694'DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
AQ2694'DESCRIBED BY D.F. CALLAHAN.

AQ2694

STATION RECOVERY (1989)

AQ2694

AQ2694'RECOVERED 1989
AQ2694'RECOVERED IN GOOD CONDITION.

AQ2694

STATION RECOVERY (1991)

AQ2694

AQ2694'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AQ2694'4.2 KM (2.6 MI) NORTHWESTERLY ALONG U.S. HIGHWAY 1 FROM THE JUNCTION
AQ2694'OF STATE HIGHWAY 16 IN SAINT AUGUSTINE, THEN 0.1 KM (0.1 MI)
AQ2694'NORTH-EASTERLY ALONG ESTRELLA AVENUE, THEN 0.1 KM (0.1 MI)
AQ2694'NORTH-WESTERLY ALONG A PAVED ROAD, THEN 0.1 KM (0.1 MI) NORTH-WESTERLY ALONG
AQ2694'PAVED RAMP, THEN 0.7 KM (0.4 MI) NORTH-EASTERLY ALONG RUNWAY 6-24,
AQ2694'THEN 0.9 KM (0.6 MI) NORTH-WESTERLY ALONG RUNWAY 13-34, 181.6 M
AQ2694'(595.0 FT) NORTH-WEST OF A WIND SOCK, 80.4 M (263.8 FT)
AQ2694'OUT OF AND LEVEL WITH THE CENTERLINE OF RUNWAY 13-34, 63.4 M
AQ2694'(208.0 FT) SOUTH OF A RUNWAY LIGHT, 58.0 M (190.3 FT) WEST-SOUTH-WEST
AQ2694'OF A RUNWAY LIGHT, 56.2 M (184.4 FT) EAST OF THE CENTERLINE OF A
AQ2694'TAXIWAY, 56.1 M (184.1 FT) NORTHEAST OF A TAXIWAY LIGHT, 55.5 M
AQ2694'(182.1 FT) EAST-SOUTH-EAST OF A TAXIWAY LIGHT, AND 1.0 M (3.3 FT)
AQ2694'OF A WITNESS POST. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A
AQ2694'5-INCH LOGO CAP.

Elapsed Time = 00:00:02

The NGS Data Sheet

**DATABASE** = Sybase, **PROGRAM** = datasheet, **VERSION** = 5.60

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1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

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The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1991.

The orthometric height was scaled from a topographic map.

The Laplace correction was computed from DEFLBC96 derived deflections.

The geoid height was determined by GEOID96.

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**SUPERSEDED SURVEY CONTROL**

Superseded values are not recommended for survey control.

NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

See file format.dat to determine how the superseded data were derived.

http://www.ngs.noaa.gov/cgi-bin/env.cgi

6/5/98
BC1846

BC1846 MARKER: DS = TRIANGULATION STATION DISK
BC1846 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

BC1846 HISTORY
- Date          Condition    Recov. By
BC1846 HISTORY - 1932    MONUMENTED    CGS
BC1846 HISTORY - 1933    GOOD        CGS
BC1846 HISTORY - 1950    GOOD        CGS
BC1846 HISTORY - 1962    GOOD        CGS
BC1846 HISTORY - 1966    GOOD        CGS
BC1846 HISTORY - 1966    GOOD        CGS
BC1846 HISTORY - 1967    GOOD        CGS
BC1846 HISTORY - 1975    POOR        NGS

BC1846 STATION DESCRIPTION

BC1846 DESCRIBED BY COAST AND GEODETIC SURVEY 1932 (HCW)
BC1846 'THIS STATION IS ABOUT 6 MILES S OF JACKSONVILLE BEACH, ON THE W
BC1846 'SIDE OF THE PALM VALLEY ROAD, 71.5 FEET W OF THE CENTER LINE OF
BC1846 'ROAD, 46.0 FEET W OF THE W EDGE OF THE DITCH. THIS POINT IS
BC1846 '0.6 MILE S OF A SIDE ROAD WITH A SIGNBOARD PALM VALLEY CLUB IN
BC1846 'THE W ANGLE. THE MARK PROJECTS 7 INCHES.

BC1846 SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD
BC1846 BRONZE DISKS SET IN CONCRETE.

BC1846 REFERENCE MARK NO. 1 IS E OF THE STATION ON THE E SIDE AND 32
BC1846 'FEET FROM THE CENTER LINE OF THE ROAD. THE MARK PROJECTS 6 INCHES.

BC1846 REFERENCE MARK NO. 2 IS S OF THE STATION ON THE E SIDE OF AND
BC1846 '29 FEET FROM THE CENTER LINE OF ROAD. THE MARK PROJECTS 6 INCHES.

BC1846 AZIMUTH MARK IS SSW OF THE STATION, ON THE W SIDE OF AND 26
BC1846 'FEET FROM THE CENTER LINE OF ROAD, 5 FEET W OF THE W EDGE OF THE
BC1846 'DITCH, AND ABOUT 30 YARDS S OF A DIRT ROAD COMING IN FROM THE
BC1846 'NW. THE MARK PROJECTS 7 INCHES.

BC1846 TO REACH FROM THE CENTER OF THE ST. JOHNS RIVER BRIDGE, GO 17
BC1846 'MILES ON THE ATLANTIC BEACH ROAD TO A PAVED ROAD LEADING S AT A
BC1846 'GULF FILLING STATION. TURN S AND GO 2.4 MILES TO RAILROAD
BC1846 'CROSSING IN JACKSONVILLE BEACH. CONTINUE 5.0 MILES FROM CROSSING
BC1846 'TO A GRADED BUT ROUGH SAND ROAD LEADING W. TURN HERE AND GO W
BC1846 'AND S 1.2 MILES TO THE STATION ON THE W SIDE OF THE ROAD. THE
BC1846 'ROAD FROM JACKSONVILLE TO JACKSONVILLE BEACH IS STATE HIGHWAY
BC1846 '78, AND FOLLOW THE COAST TO ST. AUGUSTINE.

BC1846 NOTE-- THE STATION IS IN A CLEARED AREA POSTED BY THE STATE BUT
BC1846 SAID TO BELONG TO JOHN H. PITT OF SAN PABLO.

BC1846 A 116-FOOT TOWER WAS USED. LINE TO LORETTA WAS PARTIALLY
BC1846 OBSTRUCTED.

BC1846 STATION RECOVERY (1933)

BC1846 RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1933 (HCW)
BC1846 STATION RECOVERED AS DESCRIBED WITH THE FOLLOWING
BC1846 CORRECTION. REFERENCE MARK NO. 2 MEASURES 181.90 FEET AND NOT
BC1846 191.90 FEET AS DESCRIBED.

BC1846 STATION RECOVERY (1950)
BC1846'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1950 (ERM)

BC1846' STATION AND REFERENCE MARKS WERE RECOVERED IN GOOD CONDITION. THE
BC1846' AZIMUTH MARK WAS NOT RECOVERED AFTER AN HOUR SEARCH BY TWO
BC1846' MEN. THE MARK WAS PROBABLY DESTROYED BY ROAD EQUIPMENT DURING
BC1846' RESURFACING. THE PUBLISHED DESCRIPTION IS ADEQUATE AND CORRECT
BC1846' WITH THE FOLLOWING EXCEPTIONS--

BC1846' THE ROUGH GRADED ROAD IS NOW PAVED AND KNOWN AS PALM VALLEY ROAD
BC1846' (STATE HIGHWAY 210). THE STATION IS 90.6 FEET S OF THE CENTER
BC1846' OF A DIM TRAIL LEADING W. THE MARKS ARE STAMPED PALM 1932, PALM
BC1846' NO 1 1932, AND PALM NO 2 1932, RESPECTIVELY.

BC1846' TO REACH FROM PONTE VEDRA BEACH AT THE INTERSECTION OF STATE
BC1846' HIGHWAY AIA AND PALM VALLEY ROAD (STATE HIGHWAY 210), TRAVEL SW
BC1846' ON PALM VALLEY ROAD 1.2 MILES TO DIM TRAIL LEADING W AND STATION
BC1846' SITE.

BC1846' A 4'-BY-4-INCH WITNESS POST WAS SET 3.6 FEET W OF R.M. 1.

BC1846

BC1846' STATION RECOVERY (1962)

BC1846' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1962 (WFR)

BC1846' THE STATION MARK AND REFERENCE MARK NO. 1 WAS RECOVERED. REFERENCE
BC1846' MARK NO. 2 AND THE AZIMUTH MARK WAS NOT RECOVERED AND IT IS
BC1846' BELIEVED THEY WERE DESTROYED BY IMPROVEMENT OF THE ROAD.

BC1846' THE STATION MARK IS 50 FEET WEST OF A NORTH-SOUTH SURFACED ROAD,
BC1846' IN A DENSE PALMETTO AREA IN WHICH A LINE FROM THE ROAD TO STATION
BC1846' MARK AND AROUND THE MARK WAS CLEARED.

BC1846' TO REACH THE STATION FROM THE POST OFFICE IN PONTE VEDRA BEACH,
BC1846' GO SOUTH OF U.S. HIGHWAY AIA FOR 1.45 MILES TO A SIDE ROAD ON THE
BC1846' RIGHT AND SIGN PALM VALLEY RD. TURN RIGHT AND GO WEST ON SURFACED
BC1846' ROAD FOR 0.6 MILE TO WHERE THE ROAD TURNS AND GOES SOUTH, TURN
BC1846' LEFT AND GO SOUTH ON MAIN SURFACED ROAD FOR 0.2 MILE TO SCHOOL
BC1846' ON THE RIGHT.

BC1846' CONTINUE STRAIGHT AHEAD ON MAIN SURFACED ROAD FOR 0.4 MILE TO A
BC1846' DIM TRACK ROAD ON THE RIGHT AND STATION ON THE RIGHT ABOUT 50
BC1846' FEET SOUTH OF DIM TRACK ROAD.

BC1846

BC1846' STATION RECOVERY (1966)

BC1846' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1966 (HDR)

BC1846' THE STATION MARK AND REFERENCE MARK NO. 1 WERE RECOVERED IN GOOD
BC1846' ALSO RECOVERED, IN GOOD CONDITION, AS DESCRIBED BY H.C.W., IN
BC1846' 1932. REFERENCE MARK NO. 2 WAS SEARCHED FOR BUT NOT
BC1846' RECOVERED. REFERENCE MARK BELIEVED LOST WHEN THE ROADWAY WAS
BC1846' IMPROVED.

BC1846' A FIVE FOOT HIGH LINE-OF-SIGHT WAS CLEARED FROM THE STATION TO
BC1846' THE AZIMUTH MARK.

BC1846' AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1846' 1.5 MILES SSW OF PONTE VEDRA, FLORIDA.

BC1846

BC1846' STATION RECOVERY (1966)

BC1846

BC1846' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1966 (GMW)
THE STATION MARK, REFERENCE MARK NO. 1 AND NO. 2 AND THE AZIMUTH MARK WERE ALL RECOVERED IN GOOD CONDITION. DUE TO ROAD CONSTRUCTION FOR THE IMPROVEMENT OF STATE ROAD 210 A NEW AZIMUTH MARK WAS ESTABLISHED. TO AVOID CLEARING HEAVY PALMETTO UNDERBRUSH AROUND THE STATION A 10 FOOT STAND WAS USED. REFERENCE MARK DISTANCES WERE APPROXIMATELY VERIFIED.

A COMPLETE DESCRIPTION FOLLOWS--

THE STATION IS LOCATED ABOUT 4.7 MILES SOUTH OF JACKSONVILLE BEACH, 1.8 MILES SOUTH-SOUTHEAST OF THE CENTER OF PONTE VEDRA BEACH, AND 0.7 MILE WEST OF THE ATLANTIC OCEAN, ADJACENT TO STATE ROAD 210.

TO REACH THE STATION FROM THE INTERSECTION OF STATE ROADS A1A AND 210 IN PONTE VEDRA BEACH GO WEST AND THEN SOUTH ON SR 210 FOR 1.2 MILES TO THE STATION ON THE RIGHT AND REFERENCE MARK NO. 1 ON THE LEFT. STATION IS 0.5 MILE SOUTH FROM THE DIRT ROAD LEADING SOUTHEAST ACROSS FROM THE NORTH END OF THE PALM VALLEY-PONTE VEDRA SCHOOL.

THE STATION IS A STANDARD TRIANGULATION DISK STAMPED PALM, 1932 SET IN A 12 INCH SQUARE CONCRETE MONUMENT WHICH PROJECTS 5 INCHES ABOVE THE GROUND. IT IS 72 FEET WEST OF THE CENTERLINE OF THE PRESENT PAVED ROAD AND 3.0 FEET WEST-SOUTHWEST OF A 2X4 INCH WOOD WITNESS STAKE.

REFERENCE MARK NO. 1 IS A STANDARD DISK STAMPED PALM NO. 1, 1932 SET IN A 10 INCH SQUARE CONCRETE MONUMENT WHICH PROJECTS 1 INCH ABOVE GROUND LEVEL. IT IS 33 FEET EAST OF THE CENTERLINE OF THE PRESENT PAVED ROAD AND 4.0 FEET EAST OF A 4X4 INCH WITNESS POST WITH SIGN ATTACHED, AND 6 FEET EAST OF THE TOP OF THE ROAD BANK.

REFERENCE MARK NO. 2 IS A STANDARD DISK STAMPED PALM NO. 2, 1932 SET IN A 10 INCH SQUARE CONCRETE MONUMENT WHICH IS 2 INCHES BELOW GROUND LEVEL. IT IS 28 FEET EAST OF THE CENTERLINE OF THE PRESENT PAVED ROAD AT THE TOP OF THE ROAD BANK AND 2 FEET WEST OF A 2X4 INCH WITNESS STAKE.

THE 1932 AZIMUTH MARK IS A STANDARD REFERENCE MARK DISK STAMPED PALM 1932 AZIMUTH SST IN A 10 INCH SQUARE CONCRETE MONUMENT PROJECTING 4 INCHES ABOVE THE GROUND. IT IS ALMOST 0.3 MILE SOUTH OF THE STATION, 34 FEET WEST OF THE CENTERLINE OF THE PRESENT PAVED ROAD, 25 FEET WEST OF THE PAVEMENT EDGE, 6 FEET WEST FROM A 2X4 INCH WITNESS STAKE WITH SIGN ATTACHED AT THE TOP OF THE ROAD BANK.

BC1846
BC1846'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1846'4.7 MILES SOUTH OF JACKSONVILLE BEACH.
BC1846
BC1846
BC1846'STATION RECOVERY (1967)
BC1846
BC1846'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (JB)
BC1846'RECOVERED ALL MARKS IN GOOD CONDITION ESSENTIALLY AS ORIGINALLY
BC1846'DESCRIBED EXCEPT FOR SINCE-NOTED ERROR IN R.M. 2 DISTANCE AND
BC1846'THIS NO. 2 R.M. WAS FOUND WITH TOP FOOT OR SO OF THE MARK BROKEN
BC1846'AWAY CLEANLY. THE TWO PIECES FITTED TOGETHER EVIDENTLY RESTORED
BC1846'THE ORIGINAL POSITION OF THE MARK.
BC1846'
BC1846'TWO NEW R.M.S AND A NEW AZ. MK. WERE ESTABLISHED AFTER WHICH THE
BC1846'OLD MARKS OF REFERENCE AND AZIMUTH WERE DESTROYED AND THE DISKS
BC1846'RECLAIMED. THE STATION MARK WAS LEFT AS IT WAS FOUND.
BC1846'
BC1846'ABOUT 1.5 MILES SOUTHERLY ALONG NO. A1A U.S. HWY. FROM THE POST OFFICE
BC1846'IN PONTE VEDRA OR 1.2 MILES FROM THE NEW PEDESTAL-TYPE MUNICIPAL
BC1846'WATER TANK AND TURN RIGHT, THENCE 1.1 MILES W AND S ALONG NO. 120
BC1846'FLORIDA HWY. TO THE MARK ON RIGHT, ABOUT 0.5 MILE S OF THE PONTE
BC1846'VEDRA PALM VALLEY SCHOOL, ABOUT 60 YARDS S OF PROJECTED CENTER
BC1846'LINE OF A SAND ROAD FROM E, APPARENTLY ON CREST OF SLIGHT RIDGE,
BC1846'120 FEET W OF C/L OF 200-FOOT HWY. RIGHT-OF-WAY, 3.2 FEET E OF
BC1846'STEEL WITNESS POST, STANDARD DISKSStamped PALM 1932 ARE SET
BC1846'IN 1B AND 7A MARKS WITH THE FORMER PROJECTING 0.5 FOOT ABOVE
BC1846'GROUND.
BC1846'
BC1846'R.M. NO. 3 IS 101 FEET W OF C/L OF HWY., 1.8 FEET S OF STEEL
BC1846'WITNESS POST, AND FLUSH WITH THE GROUND.
BC1846'
BC1846'R.M. NO. 4 IS 101 FEET W OF C/L OF HWY., 2.0 FEET S OF STEEL
BC1846'WITNESS POST, AND FLUSH WITH THE GROUND.
BC1846'
BC1846'THE AZIMUTH MARK IS ON THE OUTSIDE AND NEAR THE CENTER OF SHORT
BC1846'EASY HWY. CURVE, ON OR JUST S OF CREST OF SLIGHT RIDGE, 103 FEET
BC1846'E OF C/L OF HWY., 2.5 FEET N OF STEEL WITNESS POST, AND FLUSH
BC1846'WITH THE GROUND. IT IS S 12 DEG 07 MIN 52 SEC E FROM
BC1846'THE STATION OR 7 DEG 28 MIN 52.66 SEC LESS THAN THAT OF THE
BC1846'ORIGINAL AZIMUTH MARK WHICH IS LISTED AS 355 DEG 21 MIN 00.2 SEC
BC1846'FROM THE STATION. THE DISTANCE GIVEN ABOVE IS RECKONED WITH
BC1846'THE AID OF THE STATIONING OF THE HWY. SURVEY. NOTE THE
BC1846'SUBSURFACE MARK.
BC1846'
BC1846'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1846'ABOUT 2 MILES SW OF PONTE VEDRA POST OFFICE.
BC1846
BC1846
BC1846
BC1846'STATION RECOVERY (1975)
BC1846
BC1846
BC1846'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1975 (LFB)
BC1846'GROUND. REFERENCE MARK NO. 3 AND NO. 4, WERE FOUND IN NEW
BC1846'CONDITION. THE DESCRIPTION BY J. BULL IN 1967 IS ADEQUATE AND
BC1846'CORRECT FOR RECOVERY OF THE MARKS.

*** retrieval complete.
Elapaed Time = 00:00:03
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The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1991. The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991. The Laplace correction was computed from DEFLB96 derived deflections. The geoid height was determined by GEOID96. The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.). The modeled gravity was interpolated from observed gravity values.

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<th>SPC FL E</th>
<th>UTM Zone</th>
<th>North</th>
<th>East</th>
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<th>Scale</th>
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Primary Azimuth Mark: DURBIN 2

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<tr>
<th>SPC FL E</th>
<th>UTM Zone</th>
<th>Reference Object</th>
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<tr>
<td></td>
<td>17</td>
<td>DURBIN 2</td>
<td>318 22 55.4</td>
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<td>87.911 METERS</td>
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<td>DURBIN FOREST SERVICE TOWER 92.707 METERS</td>
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<td>DURBIN 2</td>
<td>318 22 55.4</td>
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SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/ds_desig

6/10/98
Data Sheet Retrieval by Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>BC0583 NAD 83 (1986) - 30 05 03.79019 (N) 081 27 30.99113 (W) ADJUSTED</td>
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<tr>
<td>BC0583 NAD 27 - 30 05 02.91676 (N) 081 27 31.69221 (W) ADJUSTED</td>
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<tr>
<td>BC0583 NGVD 29 - 18.89 (meters) 62.0 (feet) RESET</td>
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BC0583. Superseded values are not recommended for survey control.
BC0583. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC0583. See file format.dat to determine how the superseded data were derived.

BC0583

BC0583_MARKER: DZ = AZIMUTH MARK DISK
BC0583_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
BC0583_STAMPING: DURBIN 2 1972
BC0583_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
BC0583_STABILITY: SURFACE MOTION
BC0583_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
BC0583_SATELLITE: SATELLITE OBSERVATIONS - April 14, 1991

<table>
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<tr>
<th>Code</th>
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<tr>
<td>BC0583 HISTORY - Date Condition Recov. By</td>
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</tr>
<tr>
<td>BC0583 HISTORY - 1972 MONUMENTED NGS</td>
<td></td>
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<tr>
<td>BC0583 HISTORY - 1972 GOOD NGS</td>
<td></td>
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<tr>
<td>BC0583 HISTORY - 1982 GOOD LOCSUR</td>
<td></td>
</tr>
<tr>
<td>BC0583 HISTORY - 19910414 GOOD NGS</td>
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</tbody>
</table>

BC0583

STATION DESCRIPTION

BC0583 DESCRIBED BY NATIONAL GEODETIC SURVEY 1972
BC0583 15 MI NW FROM ST AUGUSTINE.
BC0583 14.25 MILES NORTH AND NORTHWEST ALONG U.S. HIGHWAY 1 FROM ITS
BC0583 JUNCTION WITH STATE HIGHWAY 16 IN THE NORTH EDGE OF SAINT
BC0583 AUGUSTINE, 288.5 FEET SOUTH-SOUTHWEST OF TRIANGULATION STATION
BC0583 NIBRUD 1962, 300 FEET SOUTH-SOUTHWEST OF THE DURBIN FOREST
BC0583 SERVICE TOWER, 103 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE
BC0583 RAILROAD TRACK, 44.5 FEET SOUTHWEST OF THE CENTER OF THE
BC0583 SOUTH BOUND LANE OF U.S. HIGHWAY 1, 26 FEET SOUTHEAST OF A POWER
BC0583 LINE POLE AND 1.1 FEET SOUTHEAST OF A METAL WITNESS POST.
BC0583 A STANDARD DISK, STAMPED DURBIN 2 1972, IS SET IN THE
BC0583 TOP OF A 12-INCH SQUARE CONCRETE POST THAT IS SET FLUSH WITH
BC0583 THE GROUND SURFACE.

BC0583

STATION RECOVERY (1972)

BC0583

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1972 (LFS)
BC0583 DURBIN 2 AZ MK--
BC0583 STATION MARK IS A STANDARD DISK, STAMPED DURBIN 2 1972, SET IN THE
BC0583 TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 3 INCHES ABOVE THE
BC0583 GROUND. IT IS 288.5 FEET SOUTHWEST OF TRIANGULATION STATION NIBRUD
BC0583 1962, 103 FEET NORTHEAST OF THE NORTHEAST RAIL OF TRACK, 300 FEET
BC0583 SOUTH-WEST OF THE DURBIN FOREST SERVICE TOWER, 44.3 FEET
BC0583 WEST-SOUTHWEST OF CENTER OF SOUTHBOUND LANE OF U.S. ROUTE 1, 26
BC0583 FEET SOUTHEAST OF A POWER LINE POLE AND 1.0 FOOT EAST OF A METAL
BC0583 WITNESS POST.

BC0583'

BC0583 NOTE -- THIS MONUMENT HAS BEEN BADLY BATTERED BY MOWING EQUIPMENT.

BC0583

STATION RECOVERY (1982)

BC0583

RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982
BC0583 RECOVERED IN GOOD CONDITION.

BC0583

STATION RECOVERY (1991)

http://www.ngs.noaa.gov/cgi-bin/ds_desig

6/10/98
BC0583' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
BC0583' 22.8 KM (14.2 MI) NORTHWESTERLY ALONG U.S. HIGHWAY 1 FROM THE JUNCTION
BC0583' OF STATE HIGHWAY 16 IN SAINT AUGUSTINE, 23.6 M (77.4 FT) SOUTHEAST OF
BC0583' THE EXTENDED CENTER OF A DRIVEWAY LEADING TO THE DURBIN LOOKOUT
BC0583' TOWER, 13.5 M (44.3 FT) SOUTHWEST OF AND LEVEL WITH THE CENTERLINE OF
BC0583' THE SOUTHBOUND LANES OF THE HIGHWAY, 0.3 M (1.0 FT) EAST OF A WITNESS
BC0583' POST, AND THE MONUMENT IS FLUSH WITH THE GROUND SURFACE. NOTE--THE
BC0583' MONUMENT LEANS SLIGHTLY TO THE NORTH, BUT IS SOLID IN PLACE.
Elapsed Time = 00:00:02
The NGS Data Sheet

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

AQ2721 DESIGNATION - MICKLER RESET
AQ2721 PID - AQ2721
AQ2721 STATE/COUNTY - FL/ST JOHNS
AQ2721 USGS QUAD - ST AUGUSTINE BEACH

*CURRENT SURVEY CONTROL

<table>
<thead>
<tr>
<th>AQ2721*</th>
<th>NAD 83(1986) - 29 47 41.</th>
<th>(N)</th>
<th>081 15 45.</th>
<th>(W)</th>
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<tbody>
<tr>
<td>AQ2721* NAVD 88</td>
<td>-</td>
<td>1.575 (meters)</td>
<td>5.17 (feet)</td>
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</table>

<table>
<thead>
<tr>
<th>AQ2721</th>
<th>GEOID HEIGHT -</th>
<th>-28.70</th>
<th>(meters)</th>
<th>GEOID96</th>
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<tbody>
<tr>
<td>AQ2721</td>
<td>DYNAMIC HT -</td>
<td>1.573 (meters)</td>
<td>5.16 (feet)</td>
<td>COMP</td>
</tr>
<tr>
<td>AQ2721</td>
<td>MODELED GRAV -</td>
<td>979,302.8</td>
<td>(mgal)</td>
<td>NAVD 88</td>
</tr>
</tbody>
</table>

AQ2721 VERT ORDER - FIRST CLASS II

AQ2721. The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

AQ2721. The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in May 1994.

AQ2721. The geoid height was determined by GEOID96.

AQ2721. The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).

AQ2721. The modeled gravity was interpolated from observed gravity values.

AQ2721 SPC FL E | North: 605,140. | East: 174,620. | Units: MT | Estimated Accuracy: (+/- 180 meters Scaled)

AQ2721 SUPERSEDEED SURVEY CONTROL

AQ2721 NGVD 29 | - | 1.900 (meters) | 6.23 (feet) | ADJUSTED |

AQ2721. Superseded values are not recommended for survey control.

AQ2721. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AQ2721. See file format.dat to determine how the superseded data were derived.

AQ2721 MARKER: DH = HORIZONTAL CONTROL DISK

AQ2721. SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

AQ2721. STAMPING: MICKLER 1933 1979

AQ2721. STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AQ2721. STABILITY: SURFACE MOTION

AQ2721 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AQ2721 SATELLITE OBSERVATIONS - March 23, 1991

AQ2721 HISTORY - Date: 1979 Condition: MONUMENTED Recov. By: NGS

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ2721 DESCRIBED BY NATIONAL GEODETIC SURVEY 1991
AQ2721 2.8 KM (1.7 MI) NORTHERLY ALONG STATE HIGHWAY A1A (OCEAN SHORE
AQ2721 BOULEVARD) FROM THE JUNCTION OF STATE HIGHWAY 206 IN CRESCENT BEACH,
AQ2721 25.5 M (83.7 FT) WEST OF AND LEVEL WITH THE HIGHWAY CENTERLINE, 16.1
AQ2721 M (52.8 FT) EAST OF UTILITY POLE NUMBER 173D18 AND REFERENCE MARK 4,
AQ2721 12.8 M (42.0 FT) SOUTHEAST OF THE SOUTHEAST CORNER OF UNIT 11 OF THE
AQ2721 WINDSWEPT MOTEL, 12.4 M (40.7 FT) WEST OF UTILITY POLE NUMBER
AQ2721 36347340506, 9.6 M (31.5 FT) NORTH OF THE CENTERLINE OF MICKLER ROAD,
AQ2721 AND THE MONUMENT IS SURROUNDED BY AND RECESSED 0.2 M (0.7 FT) BELOW
AQ2721 THE LEVEL OF A DRIVEWAY LEADING TO THE MOTEL.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

BC2512
BC2512 DESIGNATION - P 405
BC2512 PID - BC2512
BC2512 STATE/COUNTY - FL/ST JOHNS
BC2512 USGS QUAD - DURBIN (1972)

*CURRENT SURVEY CONTROL

BC2512
BC2512 NAD 83(1986) - 30 04 33. (N) 081 26 59. (W) SCALED
BC2512 NAVD 88 - 15.666 (meters) 51.40 (feet) ADJUSTED

BC2512 GEOID HEIGHT - -28.36 (meters) GEOID96
BC2512 DYNAMIC HT - 15.645 (meters) 51.33 (feet) COMP
BC2512 MODELED GRAV - 979,342.2 (mgal) NAVD 88

BC2512 VERT ORDER - FIRST CLASS II

The horizontal coordinates were scaled from a topographic map and have
an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling
and adjusted by the National Geodetic Survey in May 1994.

The geoid height was determined by GEOID96.

The dynamic height is computed by dividing the NAVD 88
geopotential number by the normal gravity value computed on the
Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
degrees latitude (G = 980.6199 gals.).

The modeled gravity was interpolated from observed gravity values.

BC2512;

BC2512, SPC FL E - 636,360. 156,640. MT (+/- 180 meters Scaled)

SUPERSEDED SURVEY CONTROL

BC2512
BC2512 NGVD 29 - 15.986 (meters) 52.45 (feet) ADJUSTED

Superseded values are not recommended for survey control.
NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
See file format.dat to determine how the superseded data were derived.

MARKER: I = METAL ROD
SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT. +)
STAMPING: P 405 1991
PROJECT: PLUSH
STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
STABILITY: POSITION/ELEVATION WELL
SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
SATELLITE OBSERVATIONS - 1991
ROD/PIPE-DEPTH: 18.3 meters

HISTORY - Date Condition Recov. By
BC2512 HISTORY - 1991 MONUMENTED NGS
BC2512
BC2512 STATION DESCRIPTION
BC2512
BC2512 DESCRIBED BY NATIONAL GEODETIC SURVEY 1991
BC2512 21.6 KK (13.4 MI) NORTHWESTERLY ALONG U.S. HIGHWAY 1 FROM THE JUNCTION
BC2512 OF STATE HIGHWAY 16 IN SAINT AUGUSTINE, 34.0 M (111.5 FT) WEST OF THE
BC2512 CENTERLINE OF A PAVED ROAD, 24.0 M (78.7 FT) NORTHEAST OF AND LEVEL
BC2512 WITH THE CENTERLINE OF THE NORTHBOUND LANES OF THE HIGHWAY, 16.9 M
BC2512 (55.4 FT) NORTH-NORTHEAST OF THE NORTHWEST END OF A HEADWALL, 1.3 M
BC2512 (4.3 FT) SOUTH OF THE SOUTHWEST CORNER OF JUNCTION UTILITY POLE
BC2512 NUMBER 49 WITH 2 GUY CABLES, AND 0.6 M (2.0 FT) SOUTHEAST OF A
BC2512 WITNESS POST. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH
BC2512 LOGO CAP.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval ...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
AQ2632

AQ2632 DESIGNATION - 872 0596 TIDAL 1
AQ2632 PID - AQ2632
AQ2632 STATE/COUNTY - FL/ST JOHNS
AQ2632 USGS QUAD - RIVERDALE (1991)
AQ2632

*CURRENT SURVEY CONTROL

AQ2632 NAD 83(1986) - 29 50 43. (N) 081 33 31. (W) SCALED
AQ2632 NAVD 88 - 2.745 (meters) 9.01 (feet) POSTED

AQ2632 GEOID HEIGHT - -28.40 (meters)
AQ2632 DYNAMIC HT - 2.740 (meters) 8.99 (feet)
AQ2632 MODELED GRAV - 979,316.2 (mgal)

AQ2632 VERT ORDER - * POSTED, Code NC , SEE BELOW

AQ2632 The horizontal coordinates were scaled from a topographic map and have
AQ2632 an estimated accuracy of +/- 6 seconds.

AQ2632 The orthometric height was determined by differential leveling
AQ2632 and adjusted by the National Geodetic Survey in 1992.
AQ2632 No vertical observational check was made to the station.
AQ2632 * This is a POSTED BENCH MARK height. Code NC indicates the bench mark
AQ2632 was located on a no-check spur therefore a value was not computed.

AQ2632 The geoid height was determined by GEOID96.

AQ2632 The dynamic height is computed by dividing the NAVD 88
AQ2632 geopotential number by the normal gravity value computed on the
AQ2632 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ2632 degrees latitude (G = 980.6199 gals.).

AQ2632 The modeled gravity was interpolated from observed gravity values.

AQ2632 North East Units Estimated Accuracy
AQ2632; SPC FL E - 610,850. 146,020. MT (+/- 180 meters Scaled)

AQ2632 SUPERSEDED SURVEY CONTROL
AQ2632
AQ2632 NGVD 29 - 3.047 (meters) 10.00 (feet) ADJUSTED

AQ2632 Superseded values are not recommended for survey control.
AQ2632 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ2632 See file format.dat to determine how the superseded data were derived.

AQ2632 MARKER: DJ = TIDAL STATION DISK
AQ2632 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
AQ2632 STAMPING: NO 1 1934
AQ2632 PROJECTION: FLUSH
AQ2632 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AQ2632 STABILITY: SURFACE MOTION
AQ2632 HISTORY - Date Condition Recov. By

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ2632 HISTORY - 1934 MONUMENTED CGS
AQ2632 HISTORY - 1984 GOOD FLDNR
AQ2632
AQ2632 STATION DESCRIPTION
AQ2632 'DESCRIBED BY FL DEPT OF NAT RES 1984
AQ2632 '10.6 MI NW FROM SPUDS.
AQ2632 'BEGIN AT THE JUNCTION OF COUNTY ROAD C-13 WITH STATE ROAD 207, GO
AQ2632 '10.6 MILES NORTH ON C-13 TO THE JUNCTION OF COUNTY ROAD C-214 AND THE
AQ2632 'MARK. THE MARK BEARS 51 FEET EAST OF THE CENTERLINE OF C-13, 49 FEET
AQ2632 'SOUTH OF THE CENTERLINE OF C-214, 39.5 FEET NORTHWEST OF THE NORTH
AQ2632 'CORNER OF A HOUSE, AND 5 FEET EAST OF THE NORTHWEST CORNER OF A
AQ2632 'CHAIN-LINK FENCING.
AQ2632 'THE MARK IS ABOVE LEVEL WITH HIGHWAY.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

AQ0389 DESIGNATION - DUPONT 2
AQ0389 PID - AQ0389 STATE/COUNTY - FL/ST JOHNS
AQ0389 USGS QUAD - DINNER ISLAND NE (1992)

AQ0389 *CURRENT SURVEY CONTROL

AQ0389+ NAD 83(1990) - 29 44 49.14788(N) 081 20 55.07130(W) ADJUSTED
AQ0389+ NAVD 88 - 12.042 (meters) 39.51 (feet) ADJUSTED

AQ0389 LAPLACE CORR - -0.55 (seconds) DEFLEC96
AQ0389 GEOID HEIGHT - -28.70 (meters) GEOID96
AQ0389 DYNAMIC HT - 12.026 (meters) 39.46 (feet) COMP
AQ0389 MODELED GRAV - 979,292.3 (mgal) NAVD 88

AQ0389 HORIZ ORDER - SECOND
AQ0389 VERT ORDER - SECOND CLASS II

AQ0389 The horizontal coordinates were established by classical geodetic methods
AQ0389 and adjusted by the National Geodetic Survey in May 1991.
AQ0389
AQ0389 The orthometric height was determined by differential leveling
AQ0389 and adjusted by the National Geodetic Survey in June 1991.
AQ0389
AQ0389 The Laplace correction was computed from DEFLEC96 derived deflections.
AQ0389
AQ0389 The geoid height was determined by GEOID96.
AQ0389
AQ0389 The dynamic height is computed by dividing the NAVD 88
AQ0389 geopotential number by the normal gravity value computed on the
AQ0389 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ0389 degrees latitude (G = 980.6199 gals.).
AQ0389
AQ0389 The modeled gravity was interpolated from observed gravity values.
AQ0389

AQ0389;

AQ0389;SPC PL E - 599,873.416 166,278.775 MT 0.99995520 -0 10 22.7
AQ0389;UTM 17 - 3,290,800.723 466,290.280 MT 0.99961402 -0 10 22.7

AQ0389 Primary Azimuth Mark
AQ0389 SPC PL E - DUPONT 2 AZ RESET
AQ0389 UTM 17 - DUPONT 2 AZ RESET

AQ0389 PID Reference Object Distance Geod. Az
AQ0389 DUPONT RM 4 03924
AQ0389 DUPONT AZ MK 2 0613603.7
AQ0389 AQ0385 195 72 B42 221.362 METERS 06648
AQ0389 AQ0215 DUPONT RESET 89.714 METERS 06715
AQ0389 AQ0391 DUPONT 2 RM 2 26.323 METERS 24353
AQ0389 AQ0393 DUPONT 2 AZ RESET 2473045.9
AQ0389 AQ0390 DUPONT 2 RM 1 29.746 METERS 33702

http://www.ngs.noaa.gov/cgi-bin/env.cgi

6/5/98
SUPERSEDED SURVEY CONTROL

AQ0389
AQ0389 Superseeded values are not recommended for survey control.
AQ0389 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0389 See file format.dat to determine how the superseded data were derived.

AQ0389
AQ0389 MARKER: DB = BENCH MARK DISK
AQ0389_SETTINGS: 30 = SET IN A LIGHT STRUCTURE
AQ0389_STAMPING: DUPONT 2 1964
AQ0389_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AQ0389
AQ0389 HISTORY - Date   Condition  Recov. By
AQ0389 HISTORY - 1964   MONUMENTED  CGS
AQ0389 HISTORY - 1965   GOOD       CGS
AQ0389 HISTORY - 1973   GOOD       FLDT
AQ0389 HISTORY - 1973   GOOD       NGS
AQ0389 HISTORY - 1988   GOOD       USPSQD

AQ0389

STATION DESCRIPTION

AQ0389 DESCRIBED BY COAST AND GEODETIC SURVEY 1964 (KAM)
AQ0389 STATION IS LOCATED ABOUT 12 MILES SOUTHWEST OF ST. AUGUSTINE,
AQ0389 2.25 MILES WEST OF DUPONT CENTER, AND ABOUT 600 FEET WEST
AQ0389 OF THE CENTERLINE OF INTERSTATE HIGHWAY 95 WHICH IS NOW
AQ0389 BEING CONSTRUCTED. IT IS 47.5 FEET SOUTH OF THE CENTERLINE OF
AQ0389 STATE ROAD 206, 2.5 FEET NORTH OF A METAL WITNESS POST AND
AQ0389'SIGN. IT IS A STANDARD DISK SET FLUSH WITH THE GROUND AND
AQ0389 IS STAMPED DUPONT 2 1964.

AQ0389 REFERENCE MARK NO. 1 IS 50.5 FEET NORTH OF THE CENTERLINE
AQ0389 OF THE ROAD, 2 FEET SOUTH OF A METAL WITNESS POST AND
AQ0389'SIGN. IT IS A STANDARD DISK WHICH PROJECTS 2 INCHES AND IS
AQ0389 STAMPED DUPONT 2 NO 1 1964.

AQ0389 REFERENCE MARK NO. 2 IS 49 FEET SOUTH OF THE CENTERLINE OF
AQ0389 ROAD, 1.5 FEET NORTH OF A METAL WITNESS POST AND SIGN. IT IS
AQ0389 A STANDARD DISK WHICH PROJECTS 2 INCHES AND IS STAMPED
AQ0389 DUPONT 2 NO 2 1964.

AQ0389 AZIMUTH MARK IS 0.25 MILE EAST OF THE STATION, 46 FEET NORTH
AQ0389 OF THE CENTERLINE OF STATE ROAD 206, 6 FEET SOUTHWEST OF A
AQ0389 6 INCH PINE TREE, 1.5 FEET NORTH OF A METAL WITNESS POST
AQ0389 AND SIGN. IT IS A STANDARD DISK WHICH PROJECTS 4 INCHES AND
AQ0389 IS STAMPED DUPONT 1933 1962.

AQ0389 NOTE--THIS AZIMUTH MARK WAS FORMERLY THE AZIMUTH MARK TO STATION
AQ0389 DUPONT 1933 1952.

AQ0389 TO REACH THE STATION FROM DUPONT CENTER AT THE JUNCTION OF
AQ0389 U.S. HIGHWAY 1 AND STATE ROAD 206, GO WEST ON STATE ROAD
AQ0389 206 FOR 2.0 MILES TO THE AZIMUTH MARK ON THE RIGHT, CONTINUE
AQ0389 WEST FOR 0.25 MILE TO THE STATION ON THE LEFT AS DESCRIBED.

AQ0389 HEIGHT OF LIGHT ABOVE STATION MARK 1 METER.
STATION RECOVERY (1965)

Recovery Note by Coast and Geodetic Survey 1965 (JB)

Recovered all marks in good condition. No prior description available.

About 12 miles S of St. Augustine, 2.1 miles W along No. 206 Florida Hwy. from its intersection with No. 1 U.S. Hwy. at Dupont Center, about 745 feet W along said same from its intersection with the C/L of No. 95 Interstate Hwy., 98 feet W of a corner in Hwy. Rights-of-Way, 47.5 feet S of center line of No. 206 Hwy. 20-foot asphalt pavement, about a foot lower than same, standard disks stamped Dupont 2 1964

The upper one flush with the ground, and 2.6 feet N of steel witness post.

R.M. No. 1 is 50.5 feet N of center line of Hwy., 0.2 foot higher than same, 2.3 feet S of steel-pipe witness post, and 0.1 foot below general level of the ground.

R.M. No. 2 is 49 feet S of center line of Hwy., 1.0 feet lower than same, 1.5 feet N of a steel-pipe witness post, and flush with the ground.

The azimuth mark is 235.8 feet R of E end of 1- X 27-foot concrete headwall of a triplets culvert of 24-inch concrete pipes under the Hwy., 147 feet E of concrete R/W marker, 50 feet N of center line of Hwy., 2.0 feet lower than same, 1.4 feet E of steel witness post, and flush with the ground. The distance given above is reckoned with the aid of Hwy. survey stationing.

STATION RECOVERY (1973)

Recovery Note by Florida Department of Transportation 1973

17.8 miles from St. Augustine.

From the intersection of U.S. 1 and State Road 16 in St. Augustine, proceed west on State Road 16 for about 5.4 miles to Interstate Route 95 then south on Interstate route 95 for about 12.3 miles to State Road 206 then west for about 0.05 mile and station mark, which is set in the top of a concrete monument 2 inches below ground. It is 2.7 feet northwest of a metal witness post and 47.5 feet southeast of centerline of State Road 206. Section AQ0389'2, T 9 S, R 29 E.

STATION RECOVERY (1973)

Recovery Note by National Geodetic Survey 1973 (CBM)

Station recovered in good condition, as described by J. Bull in 1965. A difference was noticed in distance to reference mark number 1, distance being 29.746 meters, or 97.60 feet.

STATION RECOVERY (1988)

Recovery Note by US Power Squadron 1988 (JD)

Recovered in good condition.

*** retrieval complete.

Elapsed Time = 00:00:02
The NGS Data Sheet

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...  
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
BC0558

**CURRENT SURVEY CONTROL**

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<th>PID</th>
<th>State/County</th>
<th>USGS Quad</th>
<th>* Current Survey Control</th>
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<tr>
<td>I95 72 B71</td>
<td>BC0558</td>
<td>FL/ST JOHNS</td>
<td>DURBIN (1972)</td>
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</tbody>
</table>

| NAD 83(1990) | 30 01 33.85526(N) | 081 29 08.49079(W) | ADJUSTED |
| NAVD 88      | 10.291 (meters) | 33.76 (feet)     | ADJUSTED  |

| LAPLACE CORR | -1.20 (seconds) |
| GEOID HEIGHT | -28.33 (meters) |
| DYNAMIC HT  | 10.277 (meters) | 33.72 (feet)     | COMP      |
| MODELED GRAV | 979,336.7 (mgal) |
|             |                 |

BC0558: The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1991.
BC0558: The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.
BC0558: The Laplace correction was computed from DEFLEC96 derived deflections.
BC0558: The geoid height was determined by GEOID96.
BC0558: The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).
BC0558: The modeled gravity was interpolated from observed gravity values.

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<th>Converg.</th>
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Primary Azimuth Mark: Grid Az
- I95 72 B70
- I95 72 B70

Reference Object: dddmms.s
- BC0559 I95 72 B71 RM 1
- APPROX. 1.6 KM 1521313.2
- BC0560 I95 72 B71 RM 2

SUPERSEDED SURVEY CONTROL

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<th>Zone</th>
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<th>W</th>
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<td>NAD 83 (1986)</td>
<td>30 01 33.86157</td>
<td>N</td>
<td>081 29 08.50100</td>
<td>W</td>
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<tr>
<td>BC0558</td>
<td>NAD 27</td>
<td>30 01 32.98330</td>
<td>N</td>
<td>081 29 09.20346</td>
<td>W</td>
<td>ADJUSTED</td>
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<tr>
<td>BC0558</td>
<td>NGVD 29</td>
<td>10.609 (meters)</td>
<td></td>
<td>34.81 (feet)</td>
<td>Adj Unch</td>
<td></td>
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</tbody>
</table>

BC0558: Superseded values are not recommended for survey control.
BC0558: NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC0558: See file format.dat to determine how the superseded data were derived.

**BC0558**

**BC0558** Marker: DD = SURVEY DISK

**BC0558** Setting: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

**BC0558** Stamping: I95 72 B71

**BC0558** Stability: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

**BC0558** Surface Motion

**BC0558**

**BC0558** History - Date Condition Recov. By

**BC0558** History - 1973 MONUMENTED FLDT

**BC0558** History - 1973 GOOD FLDT

**BC0558**

**STATION DESCRIPTION**

**BC0558** Described by Florida Department of Transportation 1973 (CBM)

**BC0558** Station is located about 14 miles northwest of St. Augustine and about 5-1/2 miles south of the St. Johns-Duval County Line, on the northeast shoulder of northbound lane of interstate Route 95, 55 feet northwest of a culvert.

**BC0558**

**BC0558** To reach station from the intersection of interstate Route 95 and State Route 16, about 6 miles northwest of St. Augustine. Go northwesterly on interstate Route 95 for 9.6 miles to station on right, on shoulder of highway.

**BC0558**

**BC0558** Station Mark is a standard Florida, Department of Transportation Brass Disk, Stamped I95 72 B71, Set in Top of a Round Concrete Monument that is 4 inches below the ground. It is 16.5 feet southwest of a metal witness post, 27.5 feet northeast of center.

**BC0558** Of the northbound lane of interstate Route 95 and 44.8 feet north-northwest of northwest end of headwall of a culvert.

**BC0558**

**BC0558** Reference Mark Number 1 is a standard Florida, Department of Transportation Brass Disk, Stamped I95 72 B71 RM1, Set in Top of a Concrete Headwall of Culvert. It is 4.3 feet southeast of northwest end of headwall and 38.7 feet northeast of center of the northbound lane of Interstate Route 95.

**BC0558**

**BC0558** Reference Mark Number 2 is a standard Florida, Department of Transportation Brass Disk, Stamped I95 72 B71 RM2, Set in Top of a Round Concrete Monument that is 5 inches below the ground. It is 19.6 feet southwest of a metal witness post and 27.5 feet northeast of center of the northbound lane of Interstate Route 95.

**BC0558**

**BC0558**

**BC0558** Station Recovery (1973)

**BC0558**

**BC0558** Recovery Note by Florida Department of Transportation 1973

**BC0558** '2.9 Mi S from Sampson.

**BC0558** From the intersection of state road 210 and interstate route

**BC0558** '95 in Sampson proceed south on interstate route 95 for about

**BC0558** '2.9 miles and station mark, which is set in the top of a round

**BC0558** Concrete Monument 4 inches below the ground. It is 16.5 feet

**BC0558** Southwest of a metal witness post, 27.5 feet northeast of

**BC0558** Centerline of interstate route 95 northbound lane and 44.8 feet

---

[http://www.ngs.noaa.gov/cgi-bin/env_cgi](http://www.ngs.noaa.gov/cgi-bin/env_cgi) 6/5/98
BC0558 'NORTH-NORTHWEST OF NORTHWEST END OF A CULVERT HEADWALL. SEC 33, T 5 S, R 28 E.

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

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1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
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AQ0295  DESIGNATION - I95 72 B55
AQ0295  PID - AQ0295
AQ0295  STATE/COUNTY - FL/ST JOHNS
AQ0295  USGS QUAD - BAKERSVILLE (1992)
AQ0295
AQ0295  ****************************************
AQ0295  *CURRENT SURVEY CONTROL
AQ0295  AQ0295
AQ0295  NAD 83 (1990) - 29 52 37.09846(N) 081 23 58.82625(W) ADJUSTED
AQ0295  NAVD 88 - 12.974 (meters) 42.57 (feet) ADJUSTED
AQ0295  LAPLACE CORR- -1.12 (seconds)
AQ0295  GEOID HEIGHT- -28.54 (meters)
AQ0295  DYNAMIC HT - 12.957 (meters) 42.51 (feet)
AQ0295  MODELED GRAV- 979,314.4 (mgal)
AQ0295  HORIZ ORDER - SECOND
AQ0295  VERT ORDER - SECOND CLASS I
AQ0295  The horizontal coordinates were established by classical geodetic methods
AQ0295  and adjusted by the National Geodetic Survey in May 1991.
AQ0295  The orthometric height was determined by differential leveling
AQ0295  and adjusted by the National Geodetic Survey in June 1991.
AQ0295  The Laplace correction was computed from DEFLEC96 derived deflections.
AQ0295  The geoid height was determined by GEOID96.
AQ0295  The dynamic height is computed by dividing the NAVD 88
AQ0295  geopotential number by the normal gravity value computed on the
AQ0295  Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ0295  degrees latitude (G = 980.6199 gals.).
AQ0295  The modeled gravity was interpolated from observed gravity values.
AQ0295
AQ0295  SPC FL E - 614,297.629 161,391.581 MT 0.99995956 -0 11 56.7
AQ0295  UTM 17 - 3,305,220.015 461,404.754 MT 0.99961839 -0 11 56.7
AQ0295  Primary Azimuth Mark
AQ0295  SPC FL E - I95 72 B54
AQ0295  UTM 17 - I95 72 B54
AQ0295  ------------------------
AQ0295
AQ0295  PID Reference Object  Distance  Geod. Az
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AQ0295  AQ0299 I95 72 B54  APPROX. 1.4 KM 16511310.2
AQ0295  AQ0296 I95 72 B55 RM 1  11.890 METERS 18738
AQ0295  AQ0297 I95 72 B55 RM 2  13.330 METERS 33802
AQ0295  ------------------------
AQ0295

SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ0295  NAD 83 (1986) - 29 52 37.10490 (N)  081 23 58.83652 (W)  ADJUSTED
AQ0295  NAD 27 - 29 52 36.22119 (N)  081 23 59.56477 (W)  ADJUSTED
AQ0295  NGVD 29 - 13.285 (meters)  43.59 (feet)  ADJ UNCH

AQ0295  Superseded values are not recommended for survey control.
AQ0295  NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0295  See file format.dat to determine how the superseded data were derived.
AQ0295

AQ0295_MARKER: DD = SURVEY DISK
AQ0295 SETTING: 30 = SRT IN A LIGHT STRUCTURE
AQ0295 STAMPING: I95 72 D55
AQ0295 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AQ0295

AQ0295 HISTORY - Date  Condition  Recov. By
AQ0295 HISTORY - 1973  MONUMENTED  FLDT
AQ0295 HISTORY - 1973  GOOD  FLDT

AQ0295

AQ0295  STATION DESCRIPTION
AQ0295

AQ0295 'DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1973 (CBM)
AQ0295 'STATION IS LOCATED ABOUT 5 MILES WEST OF ST. AUGUSTINE AND ABOUT 2
AQ0295 'MILES NORTHWEST OF THE FLORIDA EAST COAST RAILROAD, IN THE MEDIAN OF
AQ0295 'INTERSTATE ROUTE 95, NEAR THE NORTHBOUND LANE.
AQ0295 '

AQ0295 'TO REACH STATION FROM THE INTERSECTION OF INTERSTATE ROUTE 95 AND
AQ0295 'STATE ROUTE 16, ABOUT 6 MILES WEST OF ST. AUGUSTINE. GO SOUTHERLY
AQ0295 'ON INTERSTATE ROUTE 95 FOR 2.90 MILES TO STATION IN MEDIAN, AT A
AQ0295 'CROSS DRAIN. THIS IS AT A POINT 1.1 MILES NORTH ALONG INTERSTATE
AQ0295 'FROM STATE ROUTE 214.
AQ0295 '

AQ0295 'STATION MARK IS A STANDARD FLORIDA, DEPARTMENT OF TRANSPORTATION
AQ0295 'BRASS DISK, STAMPED I95 72 B55, SET IN THE TOP OF A ROUND CONCRETE
AQ0295 'MONUMENT THAT IS 3 INCHES BELOW THE GROUND. IT IS 2.8 FEET
AQ0295 'NORTHEAST OF A METAL WITNESS POST AND 27.3 FEET SOUTHWEST OF
AQ0295 'CENTER OF NORTHBOUND LANE OF INTERSTATE ROUTE 95.
AQ0295 '

AQ0295 'REFERENCE MARK NUMBER 1 IS A STANDARD FLORIDA, DEPARTMENT OF
AQ0295 'TRANSPORTATION BRASS DISK, STAMPED I95 72 B55 RM1, SET IN A DRILL
AQ0295 'HOLE IN TOP OF WALL OF A DROP INLET. IT IS 42.4 FEET SOUTHWEST OF
AQ0295 'CENTER OF NORTHBOUND LANE OF INTERSTATE ROUTE 95 AND IS IN
AQ0295 'NORTHEAST WALL OF THE DROP INLET.
AQ0295 '

AQ0295 'REFERENCE MARK NUMBER 2 IS A STANDARD FLORIDA, DEPARTMENT OF
AQ0295 'TRANSPORTATION BRASS DISK, STAMPED I95 72 B55 RM2, SET IN THE TOP OF
AQ0295 'A ROUND CONCRETE MONUMENT THAT IS 1 INCH BELOW THE GROUND. IT IS 1.9
AQ0295 'FEET NORTHEAST OF A METAL WITNESS POST AND 33.1 FEET SOUTHWEST OF
AQ0295 'CENTER OF NORTHBOUND LANE OF INTERSTATE ROUTE 95.
AQ0295 '

AQ0295 'DISTANCE BETWEEN REFERENCE MARK NUMBER 1 AND REFERENCE MARK NUMBER 2
AQ0295 'IS 24.390 METERS, OR 80.02 FEET.
AQ0295

AQ0295  STATION RECOVERY (1973)
AQ0295

AQ0295 'RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 1973
AQ0295 '8.5 MI SW FROM ST AUGUSTINE.
AQ0295 'FROM THE INTERSECTION OF U.S.1 AND STATE ROAD 16 IN ST. AUGUSTINE
AQ0295 'PROCEEDED WEST ON STATE ROAD 16 FOR ABOUT 5.4 MILES TO INTERSTATE
AQ0295 'ROUTE 95 THEN SOUTH ON INTERSTATE ROUTE 95 FOR ABOUT 3.1 MILES
AQ0295 'AND STATION MARK, WHICH IS SET IN THE TOP OF A ROUND CONCRETE
AQ0295 'MONUMENT 3 INCHES BELOW THE GROUND, IN THE MEDIAN OF INTERSTATE
AQ0295'ROUTE 95. IT IS 2.8 FEET NORTH EAST OF A METAL WITNESS POST AQ0295'AND 27.3 FEET SOUTH WEST OF CENTERLINE OF INTERSTATE ROUTE 95 AQ0295'NORTHBOUND LANE. SECTION 20, T7S, R29E.

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

The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1991.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

The Laplace correction was computed from DEFLEC96 derived deflections.

The geoid height was determined by GEOID96.

The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).

The modeled gravity was interpolated from observed gravity values.

Reference Object

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http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
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**SUPERSEDED SURVEY CONTROL**

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<tr>
<td>AQ0208</td>
<td>NGVD 29 - 14.135 (meters) 46.37 (feet) ADJ UNCH</td>
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</tbody>
</table>

Superseded values are not recommended for survey control.

NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

See file format.dat to determine how the superseded data were derived.

**MARKER:** DB = BENCH MARK DISK

**SETTING:** 30 = SET IN A LIGHT STRUCTURE

**STAMPING:** ELLZEW 1933

**STABILITY:** D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

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**STATION DESCRIPTION**

'**DESCRIBED BY COAST AND GEODETIC SURVEY 1933 (CGS)**

**THE STATION IS ABOUT 6 MILES NNE OF ST. AUGUSTINE, FLORIDA,**

**IN THE FORKS OF ROAD FORMED BY STATE HIGHWAY 48 NW AND A**

**GRAGED ROAD W, ON THE PROPERTY OF MR. T. F. ELLZEWY AND**

**ABOUT 75 YARDS E OF HIS HOME.**

'SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE

'STANDARD BRONZE DISKS SET IN CONCRETE.'

'**REFERENCE MARK NO.1 IS NE OF THE STATION, 37 FEET N OF**

**THE CENTERLINE OF STATE HIGHWAY 48, 72 PACES NE OF THE**

**ROAD INTERSECTION, 1 FOOT N OF A FENCE LINE, AT THE EDGE**

**OF A CULTIVATED FIELD AND PROJECTS 3 INCHES ABOVE THE GROUND.**

'REFERENCE MARK NO.2 IS SE OF THE STATION, 54 FEET S OF THE**

**CENTERLINE OF THE PAVED ROAD, 106 FEET S OF THE SMALL**

**HOUSE AT THE INTERSECTION AND PROJECTS 6 INCHES ABOVE**

**THE GROUND.**

'THE AZIMUTH MARK IS ABOUT 0.4 MILE W OF THE STATION,'

'45 FEET S OF THE CENTER LINE OF THE GRADED ROAD, 33 FEET**

'W OF A TELEPHONE POLE AND PROJECTS 4 INCHES ABOVE THE GROUND.'

'REACHED FROM ST. AUGUSTINE BY U.S. HIGHWAY 1 N ABOUT 2**

'MILES TO THE JUNCTION WITH STATE HIGHWAY 48 KNOWN AS THE**

'GREEN COVE SPRING ROAD, TURN LEFT AND FOLLOW STATE**

'HIGHWAY 48, 5.3 MILES TO THE STATION. THE MARK IS 155**

'FEET W OF A SMALL EMPTY HOUSE IN THE FORKS AT THE**

'INTERSECTION, 61 FEET N OF THE CENTER LINE OF THE GRADED**
A0208 ROAD, 156 FEET S OF THE CENTER LINE OF STATE HIGHWAY 48
A0208 (PAVED), 112 PACES W OF THE ROAD INTERSECTION AND 75 FEET
A0208 SE OF A GATE IN THE WIRE FENCE ALONG THE SE EDGE OF
A0208 MR. ELLZEY'S GARDEN. THE MARK PROJECTS 4 INCHES ABOVE
A0208 THE GROUND.
A0208
A0208 'A 116-FOOT TOWER WAS ERECTED.
A0208
A0208
A0208 STATION RECOVERY (1950)
A0208
A0208 RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1950 (HPG)
A0208 STATION AND REFERENCE MARKS WERE RECOVERED IN GOOD
A0208 'CONDITION. THE DISTANCES TO THE REFERENCE MARKS WERE
A0208 'MEASURED WITH A STEEL TAPE. THE DISTANCE TO R.M. 1
A0208 WAS FOUND TO BE 204.30 FEET INSTEAD OF 205.45 AS DESCRIBED. THE
A0208 'DISTANCE TO R.M. 2 WAS CORRECT. THE AZIMUTH MARK
A0208 WAS NOT RECOVERED AFTER AN HOURS SEARCH BY TWO MEN. IT IS
A0208 'PROBABLY STILL IN PLACE BUT COVERED BY SAND AND GRASS.
A0208
A0208 'THE ORIGINAL DESCRIPTION IS INADEQUATE, A NEW DESCRIPTION
A0208 'FOLLOWS--
A0208
A0208 'STATION IS LOCATED ABOUT 5.0 MILES NW OF ST. AUGUSTINE,
A0208 'IN THE FORKS OF THE ROAD FORMED BY THE JUNCTION OF STATE
A0208 'HIGHWAY 16 WITH A PAVED COUNTY ROAD TO PICOLATA, ON THE
A0208 'PROPERTY OF JOHN F. HINZ, ABOUT 75 YARDS E OF HIS
A0208 'RESIDENCE, 282.3 FEET W OF THE EDGE OF THE PAVEMENT AT THE
A0208 'INTERSECTION OF STATE HIGHWAY 16 AND THE COUNTY ROAD,
A0208 '152.0 FEET S OF THE CENTER LINE OF STATE HIGHWAY 16,
A0208 '62.0 FEET N OF THE CENTER LINE OF THE COUNTY ROAD, 61.5
A0208 'FEET S OF THE NW CORNER POST OF A LARGE SIGNBOARD, AND
A0208 '77.8 FEET E OF THE SE CORNER OF A SHED. MARK IS STAMPED
A0208 'ELLZEY 1933. IT IS A BRONZE STATION DISK SET IN CONCRETE.
A0208
A0208 'R.M. 1 IS NE OF THE STATION, 163.5 FEET W OF THE EDGE OF
A0208 'THE PAVEMENT, AT THE INTERSECTION OF STATE HIGHWAY 16
A0208 'AND THE COUNTY ROAD, 37.5 FEET N OF THE CENTER LINE OF
A0208 'THE HIGHWAY, AND 5.0 FEET E OF A TELEPHONE POLE. IT IS
A0208 A BRONZE REFERENCE DISK, STAMPED ELLZEY NO 1 1933, SET IN
A0208 'CONCRETE.
A0208
A0208 'R.M. 2 IS SE OF THE STATION, 185.3 FEET W OF THE EDGE OF
A0208 'THE PAVEMENT, AT THE INTERSECTION OF STATE HIGHWAY 16 AND
A0208 'THE COUNTY ROAD, AND 52.6 FEET S OF THE CENTER LINE OF THE
A0208 'COUNTY ROAD. IT IS A BRONZE REFERENCE DISK, STAMPED
A0208 'ELLZEY NO 2 1933, SET IN CONCRETE.
A0208
A0208 STATION RECOVERY (1962)
A0208
A0208 RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1962 (SCM)
A0208 STATION MARK AND REFERENCE MARK NO. 2 WERE RECOVERED AND
A0208 'FOUND IN GOOD CONDITION. REFERENCE MARK NO. 1 AND THE
A0208 'AZIMUTH MARK WERE NOT RECOVERED AND ARE BELIEVED TO HAVE
A0208 'BEEN DESTROYED DUE TO CULTIVATION AND THE WIDENING OF
A0208 'HIGHWAY. REFERENCE MARK NO. 3 AND A NEW AZIMUTH MARK
A0208 'WERE ESTABLISHED AT THIS TIME. THE STATION IS ON PROPERTY
A0208 'NOW OWNED AND OCCUPIED BY MR. JOHN F. HINZ, SR. DUE TO
A0208 'HIGHWAY NUMBERS BEING CHANGED A COMPLETE NEW DESCRIPTION
A0208 'FOLLOWS--STATION IS LOCATED ABOUT 5.0 MILES
A0208 WEST-NORTHWEST OF ST. AUGUSTINE, IN THE FORK OF ROADS
FORMED BY STATE HIGHWAY 16 AND COUNTY ROUTE 208. IT IS
ABOUT 75 YARDS SOUTH OF MR. HINZS RESIDENCE, 280 FEET
WEST OF THE INTERSECTION OF STATE HIGHWAY 16 AND COUNTY
ROUTE 208, 150 FEET SOUTHWEST OF THE CENTER OF STATE
HIGHWAY 16, 62 FEET NORTH OF THE CENTER OF COUNTY ROUTE
208 AND 1.3 FEET SOUTH OF A METAL WITNESS POST AND SIGN.
THE MARK IS A STANDARD DISK, SET IN THE TOP OF A SQUARE
CONCRETE MONUMENT PROJECTING 2 INCHES AND IS STAMPED
STAMPED ELLZEBY 1933.

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 1 AND STATE
ROUTE 16 ON THE NORTHWEST EDGE OF ST. AUGUSTINE, GO
WESTERLY ON STATE HIGHWAY 16 FOR 5.0 MILES TO AZIMUTH MARK
ON LEFT, CONTINUE STRAIGHT AHEAD FOR 0.3 MILE TO THE
INTERSECTION OF HIGHWAY 16 AND COUNTY ROUTE 208, KEEP LEFT
ON ROUTE 208 FOR 280 FEET TO STATION ON THE RIGHT.

REFERENCE MARK NO. 2 IS ABOUT 185 FEET WEST OF THE
INTERSECTION OF HIGHWAY 16 AND COUNTY ROAD 208, 52 FEET
SOUTH OF THE CENTER LINE OF ROUTE 208, 10 FEET WEST OF AN
8 INCH PINE TREE AND 1-1/2 FEET EAST OF A 4 INCH PINE TREE. THE
MARK IS A STANDARD DISK, SET IN THE TOP OF A SQUARE
CONCRETE MONUMENT PROJECTING 2 INCHES AND IS STAMPED
ELLZEBY NO 2 1933.

REFERENCE MARK NO. 3 IS 35 FEET SOUTHWEST OF THE CENTER
OF STATE HIGHWAY 16 AND 116-1/2 FEET NORTHEAST OF THE
METAL WITNESS POST AND SIGN. THE MARK IS A STANDARD DISK,
SET IN THE TOP OF A SQUARE CONCRETE MONUMENT PROJECTING
5 INCHES AND IS STAMPED ELLZEBY NO 3 1933.

AZIMUTH MARK IS 39 FEET SOUTH OF THE CENTER OF STATE
HIGHWAY 16, 20 FEET SOUTHEAST OF POWER POLE NO. 79,
3-1/2 FEET SOUTHWEST OF A WOOD WITNESS POST AND METAL SIGN
AND 1 FOOT NORTH OF A FENCE LINE. THE MARK IS A STANDARD
DISK, SET IN THE TOP OF A SQUARE CONCRETE MONUMENT
PROJECTING 2 INCHES AND IS STAMPED ELLZEBY 1933 RESET 1962.

HEIGHT OF LIGHT PLATE ABOVE STATION MARK 34.20 METERS.

STATION RECOVERY (1966)

RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1966 (JB)
RECOVERED ALL MARKS IN GOOD CONDITION ESSENTIALLY AS
DESCRIBED BY S.C.M. IN 1962 EXCEPT THAT NO. 3 R.M. WAS
FOUND DESTROYED. R.M. NO. 4 WAS ESTABLISHED.

SINCE HWY. CONSTRUCTION DOOMED THE 1962 AZI. MARK, THE DISK OF
WHICH WAS RECLAIMED.

ABOUT 6-1/2 MILES AIR LINE NW OF THE HEART OF DOWNTOWN
ST. AUGUSTINE OR ABOUT 0.10 MILE W ALONG NO. 16 FLA. HWY.
FROM ITS INTERSECTION (AND 4-WAY INTERCHANGE) WITH NO. 95
INTERSTATE HWY., THENCE ABOUT 0.05 MILE W ALONG NO. S-208
FLA. HWY. TO THE MARK ON RIGHT, 62 FEET N OF CENTER LINE
OF 20-FOOT ASPHALT PAVEMENT OF THE LAST-SAID HWY., ABOUT
LEVEL WITH SAME, 40 FEET E OF PROJECTED LINE OF
PROPERTY-LINE AND WOODS-FIELD FENCE FROM THE S, AND 1.3 FEET
S OF STEEL WITNESS POST, STANDARD DISKS STAMPED ELLZEBY 1933
ARE SET MARKS WITH THE FORMER PROJECTING 0.3
Data Sheet Retrieval

AQ0208 'FOOT ABOVE GROUND.
AQ0208 'R.M. NO. 2 IS 53 FEET S OF CENTER LINE OF HWY., ABOUT 0.3
AQ0208 'FOOT LOWER THAN SAME, 70 FEET W OF PROJECTED CENTER LINE
AQ0208 'OF A 30-INCH CONCRETE PIPE CULVERT, AND 2.2 FEET WSW OF A
AQ0208 'STEEL WITNESS POST. THE MARK PROJECTS ABOUT 0.3 FOOT
AQ0208 'ABOVE GROUND.
AQ0208 'R.M. NO. 4 IS THE RECLAIMED DISK OF NO. 3 R.M. SET IN A
AQ0208 'NEW MARK, 67 FEET SW OF C/L OF NO. 16 FLA. HWY., 0.6 FOOT
AQ0208 'LOWER THAN SAME, 8-1/4 FEET WSW OF CREOSOTED TENSION-BRACE
AQ0208 'POLE, 6.3 FEET NW OF PROPERTY CORNER, 3 FEET NW OF
AQ0208 'THE PLANE OF POLE AND GUY WIRE, 1.9 FEET SSE OF STEEL
AQ0208 'WITNESS POST, AND ProjectING JUST SLIGHTLY ABOVE GROUND.
AQ0208 'TRaverse StAStIOn AND Bench Mark IS A StANDArD COurT SYnAry
AQ0208 ' ANd STATE Survey Disk StamPed BP 114 RESet 1966 SEt In top
AQ0208 'OF Round concrete POST, FLUsh WITh the ground (OnLy A
AQ0208 'SurFAce Mark was Set), S 71 DEG 56 MIN 11.1 SEC E
AQ0208 'FRom the STATE, 67 FEET S OF CENTER LINE OF HWY., 0.5
AQ0208 'FOOT LOWER THAN SAME, ABOUT 45 YARDS W OF CENTER LINE OF
AQ0208 'DraIveway On S Side OF HWY., 12.3 FEET N OF FENCE CORNER,
AQ0208 '3 FEET E OF PROPERTY CORNER, 2.8 FEET W OF A STEEL WITNESS
AQ0208 'POST, AND ONE FOOT E OF PROJECTED LINE OF A PENCH FROM (S.
AQ0208 'BP 114 RESet 1966 (FLA. GEoD. S.) wAS ESTAblishED AS A NEw
AQ0208 'AzIMuTh Mark.
AQ0208 'AIRLINE distance And Direccion frOM NEAREST TOWN
AQ0208 '6-1/2 MILES WNW OF HEArT OF St. AuGusTINE.
AQ0208

STATION RECOVERY (1973)

AQ0208 'ReCOvery nOTE By NAtIoNAL GeoDetic Survey 1973 (CBM)
AQ0208 'AlL Marks reCOvERed IN gOOD condITIoN, as DEscRIBEd By J. Bull
AQ0208 'In 1966.

AQ0208

STATION RECOVERY (1973)

AQ0208 'ReCOvery nOTE By FLoRIDA DEPARTMENT OF TRANSPORTATION 1973
AQ0208 '5.5 MI W FROM St AUgusTINE.
AQ0208 'FrOM THE INTERSECTIoN Of U.S. 1 AND StATE RoAD 16 IN St. AUgusTINE
AQ0208 'ProCEEd west FOR about 5.5 MILES TO THE INTERSECTIoN OF COUNTY
AQ0208 'RoAD 208 AND StATION, WHICH IS SET IN THE top OF A CONCRETE
AQ0208 'MonUMENT FLUsh WITH An OBServers CONCRETE PlATFOrM Built AROUND
AQ0208 'StATION (TRIANGLE shAPED). IT IS 10.3 FEET EAST SOUTh EAST OF
AQ0208 'A METAL WITNESS POST, 46.0 FEET NORTh WEST OP CENTERLINE OF COUNTY
AQ0208 'RoAD 208, 280 FEET WEST OF THE INTERSECTIoN OF StATE RoAD 16
AQ0208 'AND COUNTY RoAD 208 AND 150 FEET SOUTh WEST OP CENTERLINE OF
AQ0208 'StATE RoAD 16. SECTIoN 6, T 7S, R 29E.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
AQ0430  ************************************************************
AQ0430  DESIGNATION - PELLICER AZ MK 3
AQ0430  PID - AQ0430
AQ0430  STATE/COUNTY- FL/ST JOHNS
AQ0430  USGS QUAD - DINNER ISLAND NE (1992)

AQ0430
AQ0430  *CURRENT SURVEY CONTROL
AQ0430
AQ0430* NAD 83 (1990) - 29 39 25.57056(N) 081 18 49.85785(W) ADJUSTED
AQ0430* NAVD 88  - 9.460 (meters) 31.04 (feet) ADJUSTED
AQ0430
AQ0430  LAPLACE CORR- -0.68 (seconds) DEFLEC96
AQ0430  GEOID HEIGHT- -28.72 (meters) GEOID96
AQ0430  DYNAMIC HT  - 9.447 (meters) 30.99 (feet) COMP
AQ0430  MODELED GRAV- 979,285.0 (mgal) NAVD 88
AQ0430
AQ0430  HORZ ORDER - SECOND
AQ0430  VERT ORDER - SECOND CLASS II
AQ0430
AQ0430. The horizontal coordinates were established by classical geodetic methods
AQ0430. and adjusted by the National Geodetic Survey in May 1991.
AQ0430
AQ0430. The orthometric height was determined by differential leveling
AQ0430. and adjusted by the National Geodetic Survey in June 1991.
AQ0430
AQ0430. The Laplace correction was computed from DEFLEC96 derived deflections.
AQ0430
AQ0430. The geoid height was determined by GEOID96.
AQ0430
AQ0430. The dynamic height is computed by dividing the NAVD 88
AQ0430. geopotential number by the normal gravity value computed on the
AQ0430. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ0430. degrees latitude (G = 980.6199 gals.).
AQ0430
AQ0430. The modeled gravity was interpolated from observed gravity values.
AQ0430
AQ0430
AQ0430; SPC FL E - 589,901.021 169,615.984 MT 0.99995256 -0 09 19.1
AQ0430; UTM 17 - 3,280,831.730 469,626.351 MT 0.99961138 -0 09 19.1
AQ0430
AQ0430: Primary Azimuth Mark Grid Az
AQ0430: SPC FL E - PELLICER RESET 261 10 14.9
AQ0430: UTM 17 - PELLICER RESET 261 10 14.9
AQ0430

Superseeded Survey Control

AQ0430
AQ0430
AQ0430 NAD 83 (1986) - 29 39 25.57790(N) 081 18 49.86868(W) ADJUSTED

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
AQ0430 NAD 27 - 29 39 24.67982(N) 081 18 50.62230(W) ADJUSTED
AQ0430 NGVD 29 - 9.779 (meters) 32.08 (feet) ADJ UNCH
AQ0430 Superseded values are not recommended for survey control.
AQ0430 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0430 See file format.dat to determine how the superseded data were derived.
AQ0430
AQ0430 Marker: DZ = AZIMUTH MARK DISK
AQ0430 Setting: 30 = SET IN A LIGHT STRUCTURE
AQ0430 Stamping: PELLICER 1934 1962
AQ0430 Stability: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AQ0430
AQ0430 History - Date Condition Recov. By
AQ0430 History - 1973 Monumented FLDT
AQ0430 History - 1973 Good FLDT
AQ0430 History - 1990 Good USPSQD
AQ0430
AQ0430 Station Description
AQ0430 Described by Florida Department of Transportation 1973 (CBM)
AQ0430 Station Mark is stamped PELLICER 1934 1962, projects about 5
AQ0430 Inches. It is 45 feet north of the center of State Route 204
AQ0430 and 2.1 feet north of a wood witness post with a metal witness sign
AQ0430 Attached.
AQ0430
AQ0430 Station Recovery (1973)
AQ0430 Recovery Note by Florida Department of Transportation 1973
AQ0430 26.5 mi s from St Augustine.
AQ0430 From the intersection of U.S. 1 and state road 16 in St.
AQ0430 Augustin proceed west on state road 16 for about 5.4 miles to
AQ0430 Interstate route 95 then south on interstate route 95 for about
AQ0430 19.2 miles to U.S. 1 then south on U.S. 1 for about 0.3 miles to
AQ0430 State road 204, then west on state road 204 for about 1.6
AQ0430 Miles and azimuth mark, which is set in the top of a concrete
AQ0430 Monument 3 inches above the ground. It is 2.5 feet south of
AQ0430 Metal witness post, 45.0 feet north of centerline of state
AQ0430 Road 204 and 2.0 feet north of a wooden witness post. Section
AQ0430 6, T 10S, R 30E
AQ0430
AQ0430 Station Recovery (1990)
AQ0430 Recovery Note by US Power Squadron 1990 (JD)
AQ0430 Recovered in good condition.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

AQ0448

AQ0448 DESIGNATION - Q 321
AQ0448 PID - AQ0448
AQ0448 STATE/COUNTY - FL/ST JOHNS
AQ0448 USGS QUAD - MATANZAS INLET (1992)

*CURRENT SURVEY CONTROL

AQ0448

<table>
<thead>
<tr>
<th>NAD 83(1986)</th>
<th>29 43 00.</th>
<th>NAVD 88</th>
<th>3.879 (meters)</th>
<th>GEOID HEIGHT-</th>
<th>-28.76 (meters)</th>
<th>DYNAMIC HT</th>
<th>3.874 (meters)</th>
<th>MODELED GRAV-</th>
<th>979,293.1 (mgal)</th>
<th>VERT ORDER</th>
<th>FIRST</th>
<th>CLASS II</th>
</tr>
</thead>
</table>

AQ0448 The horizontal coordinates were scaled from a topographic map and have
AQ0448 an estimated accuracy of +/- 6 seconds.

AQ0448 The orthometric height was determined by differential leveling
AQ0448 and adjusted by the National Geodetic Survey in June 1991.

AQ0448 The geoid height was determined by GEOID96.

AQ0448 The dynamic height is computed by dividing the NAVD 88
AQ0448 geopotential number by the normal gravity value computed on the
AQ0448 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ0448 degrees latitude (G = 980.6199 gals.).

AQ0448 The modeled gravity was interpolated from observed gravity values.

AQ0448

AQ0448; SPC FL E - 596,490. 177,450. MT (+/- 180 meters Scaled)

AQ0448 SUPERSEDED SURVEY CONTROL

AQ0448

AQ0448 NGVD 29 - 4.192 (meters) 13.75 (feet) ADJUSTED

AQ0448 Superseded values are not recommended for survey control.
AQ0448 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0448 See file format.dat to determine how the superseded data were derived.

AQ0448 MARKER: DB = BENCH MARK DISK
AQ0448 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
AQ0448 STAMPING: Q 321 1970
AQ0448 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AQ0448+STABILITY: SURFACE MOTION
AQ0448 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AQ0448 SATELLITE: SATELLITE OBSERVATIONS - March 23, 1991

AQ0448 HISTORY - Date Condition Recov. By
AQ0448 HISTORY - 1970 MONUMENTED NGS
AQ0448 HISTORY - 1975 GOOD FLDNR

http://www.ngs.noaa.gov/cgi-bin/env_cgi

6/5/98
AQ0448 HISTORY - 1978 GOOD FLDR
AQ0448 HISTORY - 1987 GOOD USFSQD
AQ0448 HISTORY - 1988 GOOD USFSQD
AQ0448 HISTORY - 1990 GOOD USFSQD
AQ0448 HISTORY - 19910323 GOOD NGS

AQ0448 STATION DESCRIPTION
AQ0448 DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
AQ0448 3.6 MI N FROM MARINELAND.
AQ0448 ABOUT 3.6 MILES NORTH ALONG STATE HIGHWAY A 1 A FROM THE
AQ0448 ADMINISTRATION BUILDING AT MARINELAND, ABOUT 3.8 MILES
AQ0448 SOUTH OF THE JUNCTION OF STATE HIGHWAY 206 AT CRESCENT BACH,
AQ0448 IN SECTION 13, R 30 E, T 9 S, ABOUT 0.6 MILE NORTH OF THE NORTH
AQ0448 END OF THE HIGHWAY BRIDGE OVER MATANZAS INLET, AT AN ENTRANCE
AQ0448 DRIVE LEADING WEST TO FORT MATANZAS, 45 FEET WEST OF THE CENTER
AQ0448 LINE OF THE HIGHWAY, 154 FEET NORTH OF THE APPROXIMATE CENTER LINE
AQ0448 OF THE ENTRANCE ROAD, 42 FEET SOUTH OF THE CENTER LINE OF A
AQ0448 PRIVATE ROAD LEADING WEST, 2 FEET SOUTH OF A POWER LINE POLE,
AQ0448 12 FEET NORTH OF A METAL WITNESS POST, 1 FOOT BELOW THE LEVEL
AQ0448 OF THE HIGHWAY AND SET IN THE TOP OF A CONCRETE POST FLUSH
AQ0448 WITH THE GROUND.

AQ0448 STATION RECOVERY (1975)
AQ0448
AQ0448 RECOVERY NOTE BY PL DEPT OF NAT RES 1975
AQ0448 RECOVERED IN GOOD CONDITION.

AQ0448 STATION RECOVERY (1978)

AQ0448 RECOVERY NOTE BY PL DEPT OF NAT RES 1978
AQ0448 RECOVERED IN GOOD CONDITION.

AQ0448 STATION RECOVERY (1987)
AQ0448
AQ0448 RECOVERY NOTE BY US POWER SQUADRON 1987 (JD)
AQ0448 RECOVERED IN GOOD CONDITION.

AQ0448 STATION RECOVERY (1988)

AQ0448 RECOVERY NOTE BY US POWER SQUADRON 1988 (JD)
AQ0448 RECOVERED IN GOOD CONDITION.

AQ0448 STATION RECOVERY (1990)

AQ0448 RECOVERY NOTE BY US POWER SQUADRON 1990 (JD)
AQ0448 RECOVERED IN GOOD CONDITION.

AQ0448 STATION RECOVERY (1991)

AQ0448 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AQ0448 6.3 KM (3.9 MI) SOUTHERLY ALONG STATE HIGHWAY A1A (OCEAN SHORE
AQ0448 BOULEVARD) FROM THE JUNCTION OF STATE HIGHWAY 206 IN CRESCENT BACH,
AQ0448 47.0 M (154.2 FT) NORTH OF THE CENTER OF THE FORT MATANZAS NATIONAL
AQ0448 MONUMENT ENTRANCE ROAD, 13.6 M (44.6 FT) WEST OF AND LEVEL WITH THE
AQ0448 HIGHWAY CENTERLINE, 11.8 M (38.7 FT) SOUTH OF THE CENTER OF A TRACK
AQ0448 ROAD, 7.4 M (24.3 FT) NORTH OF UTILITY POLE NUMBER 36541144809 WITH A
AQ0448 TRANSFORMER, 0.4 M (1.3 FT) NORTH OF A WITNESS POST, AND THE MONUMENT
AQ0448 IS FLUSH WITH THE GROUND SURFACE.
*** retrieval complete.
Elapsed Time = 00:00:01
The NGS Data Sheet

DATABASE = Sysbase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
BC0511 ****************************
BC0511 DESIGNATION - Q 323
BC0511 PID - BC0511
BC0511 STATE/COUNTY- FL/ST JOHNS
BC0511 USGS QUAD - PALM VALLEY (1981)

BC0511

*CURRENT SURVEY CONTROL

BC0511

<table>
<thead>
<tr>
<th>NAD 83 (1986)</th>
<th>30 13 38.</th>
<th>081 23 07.</th>
<th>10.47</th>
<th>ADJUSTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVD 88</td>
<td>3.191</td>
<td>3.191</td>
<td></td>
<td>SCALED</td>
</tr>
</tbody>
</table>

BC0511 GEOID HEIGHT - 28.52 (meters)
BC0511 DYNAMIC HT  - 3.187 (meters)
BC0511 MODELED GRAV - 979,350.8 (mgal)

BC0511 VERT ORDER - SECOND CLASS 0

BC0511 The horizontal coordinates were scaled from a topographic map and have
BC0511 an estimated accuracy of +/- 6 seconds.

BC0511 The orthometric height was determined by differential leveling
BC0511 and adjusted by the National Geodetic Survey in June 1991.

BC0511 The geoid height was determined by GEOID96.

BC0511 The dynamic height is computed by dividing the NAVD 88
BC0511 geopotential number by the normal gravity value computed on the
BC0511 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
BC0511 degrees latitude (g = 980.6199 gals.).

BC0511 The modeled gravity was interpolated from observed gravity values.

BC0511;
BC0511; SPC FL E - 653,120. 162,910. MT (+/- 180 meters Scaled)

BC0511 SUPERSEDED SURVEY CONTROL

BC0511

BC0511 NGVD 29 - 3.522 (meters) 11.56 (feet) ADJ UNCH

BC0511 Superseded values are not recommended for survey control.
BC0511 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC0511 See file format.dat to determine how the superseded data were derived.

BC0511 BC0511_MARKER: DB = BENCH MARK DISK
BC0511 SETTING: 30 = SET IN A LIGHT STRUCTURE
BC0511 STAMPING: Q 323 1970
BC0511 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

BC0511 HISTORY - Date Condition Recov. By
BC0511 HISTORY - 1970 MONUMENTED NGS

BC0511 STATION DESCRIPTION

BC0511 DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
BC0511'4.4 MI S FROM JACKSONVILLE BEACH.
BC0511'ABOUT 2.0 MILES SOUTH ALONG STATE HIGHWAY A 1 A FROM THE JUNCTION
BC0511'O OF U.S. HIGHWAY 90 AT JACKSONVILLE BEACH, THENCE 2.4 MILES SOUTH
BC0511'ALONG STATE HIGHWAY S 203, ABOUT 0.85 MILE SOUTH OF THE
BC0511'GENERAL STORE AND POST OFFICE AT THE SMALL VILLAGE OF PONTE
BC0511'VEDRA BEACH, NEAR THE JUNCTION OF STATE HIGHWAY S 210 A LEADING
BC0511'WEST, 59.6 FEET WEST OF THE CENTER LINE OF STATE HIGHWAY A 1 A,
BC0511'26.8 FEET SOUTH OF THE CENTER LINE OF STATE HIGHWAY S 210 A
BC0511'LEADING WEST, SET ON THE TOP OF THE NORTHEAST CORNER OF A
BC0511'6-BY-6-FOOT CATCH BASIN WHICH IS ABOUT 10 FEET DEEP AND ABOUT
BC0511'1/2 FOOT ABOVE THE LEVEL OF THE HIGHWAY.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60  
Starting Datasheet Retrieval...  
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

| AQ0288 | DESIGNATION  | E 322 |
|AQ0288 | PID          | AQ0288 |
|AQ0288 | STATE/COUNTY | FL/ST JOHNS |
|AQ0288 | USGS QUAD   | ST AUGUSTINE |

**CURRENT SURVEY CONTROL**

| AQ0288 | NAD 83(1986) | 29 53 21.  | (N) 081 17 38.  | (W) 5.41  |
|AQ0288 | NAVD 88      | 1.649  (meters) | 5.41  (feet) |

| AQ0288 | GEOID HEIGHT | -28.61  (meters) |
|AQ0288 | DYNAMIC HT   | 1.647  (meters)  |
|AQ0288 | MODELED GRAV | 979,318.4  (mgal) |

The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in May 1994.

The geoid height was determined by GEOID96.

The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (G = 980.6199 gals.).

The modeled gravity was interpolated from observed gravity values.

| AQ0288 | SPC FL E      | 615,620.  | 171,610.  | MT (+/- 180 meters Scaled) |

**SUPERSEDED SURVEY CONTROL**

| AQ0288 | NGVD 29      | 1.971  (meters)  | 6.47  (feet) |

Superseded values are not recommended for survey control.

NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

See file format.dat to determine how the superseded data were derived.

**MARKER: DB = BENCH MARK DISK**

**SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)**

**STAMPING: E 322 1970**

**SATURDAY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO**

**SURFACE MOTION**

**LOCATION WAS REPORTED AS NOT SUITABLE FOR**

**SATELLITE OBSERVATIONS - March 24, 1991**

**HISTORY: Date  Condition  Recov. By**

| AQ0288 | 1970 | MONUMENTED | NGS  |
|AQ0288 | 1989 | MARK NOT FOUND | USPSQD |

http://www.ngs.noaa.gov/cgi-bin/env_cgi
AQ0288  HISTORY - 19910324 GOOD NGS
AQ0288
AQ0288  STATION DESCRIPTION
AQ0288
AQ0288 ' DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
AQ0288 ' AT ST AUGUSTINE.
AQ0288 ' AT ST AUGUSTINE, 0.7 MILE SOUTHEAST ALONG STATE HIGHWAY A 1 A
AQ0288 ' FROM THE EAST END OF THE BRIDGE OF LIONS OVER THE INTRACOASTAL
AQ0288 ' WATERWAY (MANTANZAS RIVER), IN SECTION 16, R 30 E, T 7 S, 180 FEET
AQ0288 ' WEST OF THE CENTER LINE OF COMARES AVENUE LEADING SOUTH, 32 FEET
AQ0288 ' NORTHWEST OF A GULF OIL COMPANY SIGN, 1.8 FEET SOUTH OF THE
AQ0288 ' SOUTH CURB OF THE HIGHWAY, 2 1/2 FEET WEST OF A CONCRETE LIGHTPOLE,
AQ0288 ' 1 FOOT NORTH OF THE NORTH EDGE OF A CONCRETE SIDEWALK, ABOUT
AQ0288 ' LEVEL WITH THE HIGHWAY AND SET IN THE TOP OF A CONCRETE POST
AQ0288 ' FLUSH WITH THE GROUND.
AQ0288
AQ0288
AQ0288  STATION RECOVERY (1989)
AQ0288
AQ0288 ' RECOVERY NOTE BY US POWER SQUADRON 1989 (JD)
AQ0288 ' MARK NOT FOUND.
AQ0288
AQ0288
AQ0288  STATION RECOVERY (1991)
AQ0288
AQ0288
AQ0288 ' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AQ0288 ' 1.1 KM (0.7 MI) SOUTHEASTERLY ALONG STATE HIGHWAY A1A (ANASTASIA
AQ0288 ' BOULEVARD) FROM THE EAST END OF THE BRIDGE OF LIONS IN SAINT
AQ0288 ' AUGUSTINE, 56.1 M (184.1 FT) WEST OF THE CENTER OF COMARES AVENUE,
AQ0288 ' 54.1 M (177.5 FT) EAST OF THE CENTER OF MENENDEZ ROAD, 32.0 M
AQ0288 ' (105.0 FT) NORTH OF THE NORTHEAST CORNER OF THE BLUE SKY SURF SHOP,
AQ0288 ' 7.3 M (24.0 FT) SOUTH OF AND LEVEL WITH THE CENTERLINE OF THE
AQ0288 ' SOUTHBOUND LANES OF THE HIGHWAY, 0.6 M (2.0 FT) SOUTH OF A CURB, 0.6
AQ0288 ' M (2.0 FT) WEST OF A UTILITY LIGHT POLE, 0.3 M (1.0 FT) NORTH OF THE
AQ0288 ' EDGE OF A SIDEWALK, AND THE MONUMENT IS RECESS ED 0.05 M (0.16 FT)
AQ0288 ' BELOW THE GROUND SURFACE.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

AQ0375

+-----------------------------------+-----------------------------+-----------------------------+
| AQ0375 DESIGNATION               | KITTLERSON                 |
| AQ0375 PID                       | AQ0375                     |
| AQ0375 STATE/COUNTY              | FL/ST JOHN'S               |
| AQ0375 USGS QUAD                 | ST AUGUSTINE BEACH         |
| AQ0375                           |                            |

AQ0375 *CURRENT SURVEY CONTROL*

AQ0375 NAD 83(1990) - 29 45 25.43604(N) 081 17 04.25574(W) ADJUSTED
AQ0375* NAVD 88 - 7.114 (meters) 23.34 (feet) ADJUSTED

AQ0375

| AQ0375 LAPLACE CORR-             | -0.51 (seconds)             |
| AQ0375 GBOID HEIGHT-             | -28.72 (meters)             |
| AQ0375 DYNAMIC HT                | 7.105 (meters) 23.31 (feet) |
| AQ0375 MODELED GRAV-             | 979,296.3 (mgal)            |
| AQ0375 HORIZ ORDER               | SECOND                     |
| AQ0375 VERT ORDER                | SECOND CLASS 0             |

AQ0375 The horizontal coordinates were established by classical geodetic methods
AQ0375 and adjusted by the National Geodetic Survey in May 1991.
AQ0375

AQ0375 The orthometric height was determined by differential leveling
AQ0375 and adjusted by the National Geodetic Survey in June 1991.
AQ0375

AQ0375 The Laplace correction was computed from DEFL69C96 derived deflections.
AQ0375

AQ0375 The geoid height was determined by GEOID96.
AQ0375

AQ0375 The dynamic height is computed by dividing the NAVD 88
AQ0375 geopotential number by the normal gravity value computed on the
AQ0375 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ0375 degrees latitude (G = 980.6199 gals.).
AQ0375

AQ0375 The modeled gravity was interpolated from observed gravity values.
AQ0375

| AQ0375;SPC FL E                  | \(600,973.712\)            |
| AQ0375;UTM 17                    | \(172,483.104\)            |
| AQ0375                           | \(3,291,900.643\)          |
| AQ0375                           | \(472,492.493\)            |

AQ0375

| AQ0375 UTM 17 | MAYNARD | 079 32 59.3 |
| AQ0375 UTM 17 | MAYNARD | 079 32 59.3 |

AQ0375

| AQ0375 PID | Reference Object | Distance | Geod. Az |
| AQ0375     |                  |          |          |
| AQ0375     |                  |          |          |
| AQ0375     | AQ0254 MAYNARD   | APPROX. 3.3 KM | 0792430.9 |
| AQ0375     | KITTLERSON RM 1  |          |          |
| AQ0375     | KITTLERSON RM 2  | 42.483 METERS | 13221 |
| AQ0375     | KITTLERSON RM 3  | 43.029 METERS | 22119 |

AQ0375

SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/env.cgi 6/5/98
AQ0375  SUPERSeded values are not recommended for survey control.
AQ0375  NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AQ0375  See file format.dat to determine how the superseded data were derived.
AQ0375
AQ0375  MARKER: DS = TRIANGULATION STATION DISK
AQ0375  SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
AQ0375  STAMPING: KITTLESON 1994
AQ0375  STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AQ0375  SURFACE MOTION
AQ0375  SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AQ0375  SATELLITE: SATELLITE OBSERVATIONS - March 23, 1991

AQ0375
AQ0375  HISTORY - Date  Condition  Recov. By
AQ0375  HISTORY - 1934  MONUMENTED  CGS
AQ0375  HISTORY - 1952  GOOD  CGS
AQ0375  HISTORY - 1970  GOOD  NGS
AQ0375  HISTORY - 1970  GOOD  NGS
AQ0375  HISTORY - 1973  GOOD  FLDT
AQ0375  HISTORY - 1978  GOOD  NGS
AQ0375  HISTORY - 1988  GOOD  USPSQD
AQ0375  HISTORY - 1988  GOOD  USPSQD
AQ0375  HISTORY - 19910323  GOOD  NGS

AQ0375  STATION DESCRIPTION

AQ0375  DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (RDH)
AQ0375  THIS IS A FIRST ORDER STATION LOCATED ON THE PROPERTY OF
AQ0375  MR. A. L. KITTLESON, 20 MILES N OF BUNNELL, FLORIDA, AND
AQ0375  10 MILES S OF ST. AUGUSTINE.
AQ0375
AQ0375  SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD
AQ0375  BRONZE DISKS SET IN CONCRETE.
AQ0375
AQ0375  REFERENCE MARK NO. 3 IS 141.17 FEET SW OF STATION, 40 FEET S OF
AQ0375  CENTER LINE OF STATE HIGHWAY 14, 10 PACES W OF 7-INCH PINE TREE.
AQ0375
AQ0375  REFERENCE MARK NO. 2 IS 139.38 FEET SE OF STATION, 10 PACES
AQ0375  S OF CENTER LINE OF STATE HIGHWAY 14.
AQ0375
AQ0375  REFERENCE MARK NO. 1, AZIMUTH MARK, IS 0.1 MILE E OF STATION,
AQ0375  10 PACES S OF CENTER LINE OF STATE HIGHWAY 14.
AQ0375
AQ0375  TO REACH THIS STATION FROM BUNNELL, GO N ON STATE HIGHWAY 4,
AQ0375  19.7 MILES TO THE JUNCTION OF STATE HIGHWAYS 4 AND 14 AT DU PONT
AQ0375  CENTER.  TURN RIGHT OR E ON STATE HIGHWAY 14 AND GO 1.6 MILES TO
AQ0375  STATION.  STATION IS LOCATED ON THE N SIDE OF STATE HIGHWAY 14,
AQ0375  65 FEET N OF CENTER LINE, 57 FEET NW OF A 16-INCH PINE TREE THAT
AQ0375  HAS BEEN BEARKED FOR TURFENTINE, 65 PACES N OF 24-INCH PINE THAT
AQ0375  STANDS ALONE IN THE CLEARING ON S SIDE OF ROAD.
AQ0375
AQ0375  A 77-FOOT TOWER WILL CLEAR ALL LINES.
AQ0375
AQ0375  NO CUT INS VISIBLE FROM THE GROUND.
AQ0375
AQ0375  HEIGHT OF LIGHT ABOVE STATION MARK 30 METERS.

http://www.ngs.noaa.gov/cgi-bin/env_cgi  6/5/98
AQA375
AQA375
AQA375

AQA375 'RECOVERY NOTE BY COAST AND GEOFETIC SURVEY 1952 (PT)
AQA375 'THE STATION MARK WAS RECOVERED IN GOOD CONDITION. THE REFERENCE
AQA375 'MARKS AND AZIMUTH MARK WERE NOT RECOVERED. THE ROAD HAS BEEN
AQA375 'WIDENED, AND THE REFERENCE DISTANCES PLACE THE MARKS IN A
AQA375 'DITCH. THE BASE OF ONE REFERENCE MARK WAS FOUND, LYING IN THE
AQA375 'WOODS S OF THE ROAD. THE DISK WAS MISSING, BUT IT IS BELIEVED
AQA375 'TO BE REFERENCE MARK 3. IT IS PROBABLE THAT THE OTHER MARKS
AQA375 'WERE DESTROYED DURING CONSTRUCTION OF THE ROAD. THE PUBLISHED
AQA375 'DESCRIPTION IS INADEQUATE. A NEW DESCRIPTION Follows--
AQA375 '
AQA375 'THE STATION IS LOCATED ABOUT 10 MI. S OF ST. AUGUSTINE, 1.6
AQA375 'MI. E ALONG STATE ROAD 206 FROM ITS INTERSECTION WITH U.S. HIGHWAY
AQA375 '1 AT DUPONT CENTER, NEAR THE CREST OF A SCRUB-COVERED SAND RIDGE,
AQA375 'ABOUT 425 FT. W OF A WOODS ROAD LEADING N, 129.1 FT. N-NE OF A
AQA375 'BLAZED 14-IN. PINE TREE, 65.0 FT. N OF THE CENTER OF THE ROAD,
AQA375 'AND 16.5 FT. S OF A FENCE. THE STATION IS A STANDARD
AQA375 'TRIANGULATION-STATION DISK, STAMPED KITTELSON 1934 AND SET IN A
AQA375 '14-IN. ROUND CONCRETE MONUMENT WHICH PROJECTS 4 IN.
AQA375

AQA375
AQA375
AQA375 'RECOVERY NOTE BY NATIONAL GEOFETIC SURVEY 1970 (RRG)
AQA375 'THE STATION WAS RECOVERED AND IN GOOD CONDITION. RM 1, 2, AND 3
AQA375 'WERE ALL SEARCHED FOR BUT NOT RECOVERED. THE HIGHWAY HAS BEEN
AQA375 'WIDENED TO THE SOUTH AND IT APPEARS THAT THE RMS HAVE BEEN
AQA375 'DESTROYED. THE STATION MAY BE REACHED BY GOING 2.1 MILES
AQA375 'SOUTHWEST ALONG STATE HIGHWAY 206 FROM THE JUNCTION OF STATE
AQA375 'HIGHWAY A 1 A AT CRESCENT BEACH, ABOUT 1.4 MILES SOUTHWEST OF
AQA375 'THE WEST END OF THE HIGHWAY BRIDGE OVER THE INTRACOSTAL
AQA375 'WATERWAY, 64.6 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY,
AQA375 '32-1/2 FEET SOUTHWEST OF AN 18-INCH PINE TREE WITH A
AQA375 'TRIANGULAR BLAZE PAINTED WHITE ON SOUTH SIDE OF TREE, 24 FEET
AQA375 'SOUTHEAST OF A CONCRETE RIGHT-OF-WAY MARKER, 39-1/2 FEET
AQA375 'EAST OF A POWER LINE POLE, 2 FEET WEST OF A METAL WITNESS
AQA375 'POST, 2 FEET EAST OF A LARGE WOODEN POST WHICH PROJECTS 4
AQA375 'FEET ABOVE THE GROUND, SET IN THE TOP OF A CONCRETE POST
AQA375 'PROJECTING 3 INCHES ABOVE THE LEVEL OF THE GROUND AND
AQA375 'ABOUT LEVEL WITH THE HIGHWAY.
AQA375 '
AQA375 'NOTE--THE FLORIDA POWER AND LIGHT COMPANY IS IN THE PROCESS OF
AQA375 'BUILDING A POWER LINE OVER THE STATION. THE STATION AS IS NOW
AQA375 'COULD NOT BE OCCUPIED WITH A STEEL TOWER OVER IT DUE TO
AQA375 'POWER LINE. 8/70.
AQA375 '
AQA375 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
AQA375 '2.1 MILES SOUTHWEST OF CRESCENT BEACH.
AQA375

AQA375
AQA375 'RECOVERY NOTE BY NATIONAL GEOFETIC SURVEY 1970
AQA375 '2.1 MI SW FROM CRESCENT BEACH.
AQA375 'ABOUT 2.1 MILES SOUTHWEST ALONG STATE HIGHWAY 206 FROM THE
AQA375 'JUNCTION OF STATE HIGHWAY A 1 A AT CRESCENT BEACH, ABOUT 1.4
AQA375 'MILES SOUTHWEST OF THE WEST END OF THE HIGHWAY BRIDGE OVER THE
AQA375 'INTRACOSTAL WATERWAY, 64.6 FEET NORTH OF THE CENTER LINE OF THE
AQA375 'HIGHWAY, 32 1/2 FEET SOUTHWEST OF AN 18-INCH PINE TREE WITH A
AQA375 'PAINTED TRIANGULAR BLAZE, 24 FEET SOUTHEAST OF A CONCRETE

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6/5/98
AQ0375 'RIGHT-OF-WAY MARKER, 39 1/2 FEET EAST OF A POWER LINE POLE, 2 FEET WEST OF A METAL WITNESS POST, 2 FEET EAST OF A LARGE WOODEN POST WHICH PROJECTS 4 FEET ABOVE THE LEVEL OF THE GROUND, SET IN THE TOP OF A CONCRETE POST PROJECTING 3 INCHES ABOVE THE LEVEL OF THE GROUND. SEC 33, T8S, R 3O E

AQ0375
AQ0375
AQ0375
AQ0375

STATION RECOVERY (1973)

AQ0375
AQ0375

RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 1973

AQ0375
AQ0375

RECOVERED IN GOOD CONDITION.

AQ0375
AQ0375

STATION RECOVERY (1978)

AQ0375
AQ0375

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1978 (RST)

AQ0375
AQ0375

THE STATION WAS RECOVERED IN GOOD CONDITION. THE 1970 DESCRIPTION BY R.R.G. IS ADEQUATE.

AQ0375
AQ0375

STATION RECOVERY (1988)

AQ0375
AQ0375

RECOVERY NOTE BY US POWER SQUADRON 1988 (JD)

AQ0375
AQ0375

RECOVERED IN GOOD CONDITION.

AQ0375
AQ0375

STATION RECOVERY (1988)

AQ0375
AQ0375

RECOVERY NOTE BY US POWER SQUADRON 1988 (SD)

AQ0375
AQ0375

RECOVERED IN GOOD CONDITION.

AQ0375
AQ0375

STATION RECOVERY (1991)

AQ0375
AQ0375

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991

AQ0375
AQ0375

3.4 KM (2.1 MI) WESTERLY ALONG STATE HIGHWAY 206 FROM THE JUNCTION OF STATE HIGHWAY A1A (OCEAN SHORE BOULEVARD) IN CRESCE NT BEACH, 42.0 M (137.8 FT) WEST OF THE SOUTH LEG OF A BILLBOARD, 19.5 M (64.0 FT) NORTH OF AND LEVEL WITH THE HIGHWAY CENTERLINE, 11.8 M (38.7 FT) EAST OF A UTILITY POLE, 0.6 M (2.0 FT) WEST OF A WITNESS POST, AND THE MONUMENT IS FLUSH WITH THE GROUND SURFACE.

*** retrieval complete.

Elapsed Time = 00:00:03
The NGS Data Sheet

** DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60 
** Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
A0250
-------------------------------------------------------------------------------------
A0250 DESIGNATION - VILANO RESET
A0250 PID - A0250
A0250 STATE/COUNTY- FL/ST JOHNS
A0250 USGS QUAD - ST AUGUSTINE
A0250
-------------------------------------------------------------------------------------
A0250 CURRENT SURVEY CONTROL
A0250
A0250* NAD 83(1990) - 29 55 00.01743(N) 081 17 31.50511(W) ADJUSTED
A0250* NAVD 88 - 2.575 (meters) 8.45 (feet) ADJUSTED
A0250
A0250 LAPLACE CORR- -0.86 (seconds)
A0250 GEOID HEIGHT- -28.59 (meters)
A0250 DYNAMIC HT - 2.571 (meters) 8.44 (feet) COMP
A0250 MODELED GRAV- 979,323.7 (mgal)
A0250
A0250 HORIZ ORDER - FIRST
A0250 VERT ORDER - SECOND CLASS 0
A0250
A0250 The horizontal coordinates were established by classical geodetic methods
A0250 and adjusted by the National Geodetic Survey in May 1991.
A0250
A0250 The orthometric height was determined by differential leveling
A0250 and adjusted by the National Geodetic Survey in June 1991.
A0250
A0250 The Laplace correction was computed from DEFLEC96 derived deflections.
A0250
A0250 The geoid height was determined by GEOID96.
A0250
A0250 The dynamic height is computed by dividing the NAVD 88
A0250 geopotential number by the normal gravity value computed on the
A0250 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
A0250 degrees latitude (G = 980.6199 gals.).
A0250
A0250 The modeled gravity was interpolated from observed gravity values.
A0250
A0250
A0250;
A0250; SPC FL E - 618,666.887 171,795.911 MT 0.99995099 -0 08 44.4
A0250; UTM 17 - 3,309,587.781 471,805.534 MT 0.99960981 -0 08 44.4
A0250
A0250 SUPERSEDED SURVEY CONTROL
A0250
A0250 NAD 83(1986) - 29 55 00.02363(N) 081 17 31.51541(W) ADJUSTED
A0250 NAD 27 - 29 54 59.13600(N) 081 17 32.25800(W) ADJUSTED
A0250 NGVD 29 - 2.911 (meters) 9.55 (feet) ADJUSTED
A0250
A0250 Superseded values are not recommended for survey control.
A0250 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
A0250 See file format.dat to determine how the superseded data were derived.
A0250
A0250 MARKER: DS = TRIANGULATION STATION DISK
A0250 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)
A0250 STAMPING: VILANO 1933 1962
A0250 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

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6/5/98
AQ0250+STABILITY: SURFACE MOTION

AQ0250

AQ0250 HISTORY  - Date  Condition  Recov. By
AQ0250 HISTORY  - 1933  MONUMENTED  CGS
AQ0250 HISTORY  - 1952  GOOD  CGS
AQ0250 HISTORY  - 1962  SEE DESCRIPTION  CGS
AQ0250 HISTORY  - 1970  GOOD  NGS
AQ0250 HISTORY  - 1970  GOOD  NGS
AQ0250 HISTORY  - 1977  GOOD  NGS
AQ0250 HISTORY  - 1985  GOOD  FLDRN

AQ0250

STATION DESCRIPTION

AQ0250

AQ0250 'DESCRIBED BY COAST AND GEODETIC SURVEY 1933 (HCW)
AQ0250 'THIS STATION IS ABOUT 200 YARDS N NW OF THE CASINO AT VILANO
AQ0250 'BEACH, 0.25 MILE E OF THE E END OF THE BRIDGE OVER NORTH RIVER,
AQ0250 'AT THE INTERSECTION OF THE ROAD TO VILANO BEACH AND STATE HIGHWAY
AQ0250 '78.  THE MARK IS 43 FEET S OF THE CENTER LINE OF BEACH ROAD AND
AQ0250 '29 FEET E OF THE EXTENDED CENTER LINE OF STATE HIGHWAY 78 AND
AQ0250 'APPROXIMATELY ON LINE WITH THE N EDGE OF A CONCRETE SIDEWALK
AQ0250 'LEADING E TOWARD THE CASINO.  THE MARK PROJECTS 4 INCHES.
AQ0250 '
AQ0250 'SURFACE, UNDERGROUND, AND REFERENCE MARKS ARE STANDARD BRONZE
AQ0250 'DISKS SET IN CONCRETE.
AQ0250 '
AQ0250 'REFERENCE MARK NO. 1 IS E OF THE STATION, 42 FEET S OF THE
AQ0250 'CENTER LINE OF THE BEACH ROAD, 3 FEET N OF THE CONCRETE
AQ0250 'SIDEWALK.  THE MARK PROJECTS 5 INCHES.
AQ0250 '
AQ0250 'REFERENCE MARK NO. 2 IS NW OF THE STATION, 35 FEET W OF THE
AQ0250 'CENTER LINE OF STATE HIGHWAY 78, AND 11 FEET N OF A 6- BY 6-INCH
AQ0250 'CONCRETE POST MARKING THE N PROPERTY LINE OF THE VILANO BEACH
AQ0250 'SUBDIVISION.  THE MARK PROJECTS 8 INCHES.
AQ0250 '
AQ0250 'THERE IS NO STANDARD AZIMUTH MARK.
AQ0250 '
AQ0250 'TO REACH THE STATION FROM ST. AUGUSTINE, GO 2 MILES FROM
AQ0250 'U.S. HIGHWAY 1 E ON VILANO BEACH ROAD TO THE STATION.
AQ0250

AQ0250

STATION RECOVERY (1952)

AQ0250

AQ0250 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1952 (PT)
AQ0250 'THE STATION AND ITS REFERENCE MARKS WERE RECOVERED IN GOOD
AQ0250 'CONDITION.  THE DISTANCES TO THE REFERENCE MARKS WERE
AQ0250 'MEASURED WITH A STEEL TAPE AND FOUND TO BE CORRECT.  THE
AQ0250 'PUBLISHED DESCRIPTION IS ADEQUATE WITH THE FOLLOWING EXCEPTIONS--
AQ0250 '
AQ0250 'STATE HIGHWAY 78 IS NOW STATE HIGHWAY A1A.  THE CASINO HAS
AQ0250 'BEEN RAZED.
AQ0250 '
AQ0250 'THE 6- BY 6-IN CONCRETE POST AT REFERENCE MARK 2 HAS BEEN
AQ0250 'DESTROYED.  REFERENCE MARK 2 IS 14.5 FT NW OF A POWER POLE.
AQ0250 '
AQ0250 'THE STATION MARK IS STAMPED VILANO 1933.
AQ0250 '
AQ0250 'THE REFERENCE MARKS ARE STAMPED VILANO NO 1 1933 AND VILANO
AQ0250 'NO 2 1933 RESPECTIVELY.
AQ0250

AQ0250

STATION RECOVERY (1962)

AQ0250

http://www.ngs.noaa.gov/cgi-bin/env_cgi  6/5/98
AQ0250 RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1962 (VRS)
AQ0250 STATION UNDERGROUND MARK AND REFERENCE MARK 1 WERE RECOVERED
AQ0250 IN GOOD CONDITION. THE STATION SURFACE MARK WAS FOUND LYING
AQ0250 ON THE GROUND AND REFERENCE MARK 2 WAS DESTROYED BY
AQ0250 CONSTRUCTION. A NEW SURFACE MARK AND REFERENCE MARK 3 WERE
AQ0250 ESTABLISHED.
AQ0250
AQ0250 STATION IS LOCATED AT VILANO BEACH, 0.25 MILE EAST OF THE
AQ0250 EAST END OF THE BRIDGE OVER THE NORTH RIVER, AT A POINT WHERE
AQ0250 STATE HIGHWAY A1A TURNS NORTH AND BEACH ROAD GOES EAST TO THE
AQ0250 BEACH.
AQ0250
AQ0250 STATION MARK, A STANDARD DISK IN A CONCRETE MONUMENT, STAMPED
AQ0250 VILANO 1933 1962 IS ACROSS THE STREET FROM THE BLUE OCEAN
AQ0250 MOTEL, 92.5 FEET EAST OF A POWER POLE PAINTED BLACK AND YELLOW
AQ0250 AT THE BOTTOM, 67 FEET SOUTH OF A POWER POLE, 42 FEET SOUTH OF
AQ0250 THE CENTER OF BEACH ROAD, 30 FEET EAST OF THE CENTER OF STATE
AQ0250 HIGHWAY A1A IF EXTENDED TO THE SOUTH AND 2 FEET NORTH OF A
AQ0250 WITNESS SIGN. THE MONUMENT PROJECTS ABOUT 4 INCHES FROM THE
AQ0250 GROUND.
AQ0250
AQ0250 REFERENCE MARK 1, A STANDARD DISK STAMPED VILANO NO 1 1933 IN
AQ0250 A CONCRETE MONUMENT, PROJECTING ABOUT 8 INCHES ABOVE THE
AQ0250 GROUND, IS 100 FEET WEST OF THE BEACH PARKING LOT, 40 FEET
AQ0250 SOUTH OF BEACH ROAD, 9.5 FEET EAST OF A POWER POLE AND 3 FEET
AQ0250 NORTH OF THE NORTH EDGE OF THE SIDEWALK.
AQ0250
AQ0250 REFERENCE MARK 3, A STANDARD DISK IN A CONCRETE MONUMENT,
AQ0250 STAMPED VILANO NO 3 1933 1962 IS AT THE SOUTHWEST CORNER OF
AQ0250 THE BLUE OCEAN MOTEL PROPERTY, 74 FEET NORTH OF THE CENTER OF
AQ0250 BEACH ROAD, 30 FEET EAST OF THE CENTER OF HIGHWAY A1A, 21 FEET
AQ0250 NORTH OF THE NORTH EDGE OF THE SIDEWALK, 7 FEET WEST OF THE
AQ0250 MOTEL SIGN AND 3 FEET WEST OF THE SOUTH WEST CORNER OF THE
AQ0250 CONCRETE WALL OF THE MOTEL.
AQ0250
AQ0250 STATION RECOVERY (1970)
AQ0250
AQ0250 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (RRG)
AQ0250 THE STATION AND RM 3 WERE RECOVERED AND IN GOOD CONDITION. RM
AQ0250 1 WAS RECOVERED AS DESCRIBED BUT WAS NOT LEVELLED OVER DUE TO
AQ0250 ITS PROJECTING SEVERAL INCHES ABOVE THE LEVEL OF THE GROUND
AQ0250 AND POSSIBLY WOULD NOT HOLD AN ELEVATION.
AQ0250
AQ0250 THE STATION MAY BE REACHED BY GOING 1.9 MILES EAST ALONG
AQ0250 STATE HIGHWAY A1A FROM THE JUNCTION OF U.S. HIGHWAY 1 AT
AQ0250 ST AUGUSTINE, AT THE SMALL VILLAGE OF VILANO BEACH, AT THE
AQ0250 JUNCTION OF THE HIGHWAY AND A BLACK TOPPED STREET LEADING
AQ0250 EAST TO THE BEACH, ABOUT 150 YARDS WEST OF THE BEACH, 42
AQ0250 FEET SOUTH OF THE CENTER LINE OF THE STREET LEADING EAST TO
AQ0250 BEACH, 32 FEET EAST OF THE CENTER LINE (EXTENDED) OF THE
AQ0250 HIGHWAY LEADING NORTH, 118.7 FEET SOUTH OF AND ACROSS THE
AQ0250 STREET FROM RM 3 DESCRIBED, 1.7 FEET NORTH OF A METAL WITNESS
AQ0250 POST, 1 FOOT ABOVE THE LEVEL OF THE HIGHWAY AND SET IN THE
AQ0250 TOP OF A CONCRETE POST PROJECTING 2 INCHES ABOVE THE LEVEL OF
AQ0250 THE GROUND. THE DISK IS STAMPED VILANO 1933 1962.
AQ0250
AQ0250 RM 1 IS 202.5 FEET EAST OF THE STATION MARK, 42 FEET SOUTH OF
AQ0250 THE CENTER LINE OF THE BLACK TOP STREET LEADING EAST TO BEACH,
AQ0250 3 FEET SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK AND SET
AQ0250 IN THE TOP OF A CONCRETE POST PROJECTING 14 INCHES ABOVE THE

http://www.ngs.noaa.gov/cgi-bin/env.cgi 6/5/98
AQ0250 'LEVEL OF THE GROUND. RM 3 IS 118.7 FEET NORTH OF THE STATION.
AQ0250 'MARK DESCRIBED, 30 FEET EAST OF CENTER LINE OF THE HIGHWAY, 73
AQ0250 'FEET EAST OF THE BLACK TOPPED STREET LEADING EAST.
AQ0250 'TO BEACH, 3 FEET WEST OF THE WEST SIDE OF A 1-FOOT HIGH
AQ0250 'CONCRETE WALL, 1-1/2 FEET ABOVE THE LEVEL OF THE HIGHWAY AND
AQ0250 'SET IN THE TOP OF A CONCRETE POST PROJECTING 2 INCHES ABOVE
AQ0250 'THE LEVEL OF THE GROUND.
AQ0250 '
AQ0250 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
AQ0250 '1.9 MILES EAST OF ST AUGUSTINE.
AQ0250
AQ0250
AQ0250 'STATION RECOVERY (1970)
AQ0250
AQ0250
AQ0250 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970
AQ0250 '1.9 MI E FROM ST AUGUSTINE.
AQ0250 'ABOUT 1.9 MILES EAST ALONG STATE HIGHWAY A 1 A FROM THE JUNCTION
AQ0250 'OF U.S. HIGHWAY 1 AT ST AUGUSTINE, AT THE SMALL VILLAGE OF
AQ0250 'VILANO BEACH, AT THE JUNCTION OF THE HIGHWAY AND A BLACK TOP
AQ0250 'STREET LEADING EAST TO THE BEACH, ABOUT 150 YARDS WEST OF THE
AQ0250 'BEACH, 42 FEET SOUTH OF THE CENTER LINE OF THE BLACK TOP STREET
AQ0250 'LEADING EAST, 32 FEET EAST OF THE EXTENDED CENTER LINE OF STATE
AQ0250 'HIGHWAY A 1 A LEADING NORTH, 118.7 FEET SOUTH OF AND ACROSS THE
AQ0250 'BLACK TOPPED STREET FROM RM 3 DESCRIBED, 1.7 FEET NORTH OF A
AQ0250 'METAL WITNESS POST, 1 FOOT ABOVE THE LEVEL OF THE HIGHWAY AND
AQ0250 'SET IN THE TOP OF A CONCRETE POST PROJECTING 2 INCHES ABOVE THE
AQ0250 'LEVEL OF THE GROUND.
AQ0250
AQ0250
AQ0250 'STATION RECOVERY (1977)
AQ0250
AQ0250
AQ0250 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1977 (CLN)
AQ0250 'THE STATION MARK AND REFERENCE MARK 1 WERE RECOVERED AND
AQ0250 'APPEARED IN GOOD CONDITION. THE DISTANCE TO REFERENCE MARK 1
AQ0250 'CHECKED. REFERENCE MARK 1 WAS LOWERED AT THIS TIME DUE TO IT
AQ0250 'PROJECTING ABOUT 18-INCHES ABOVE THE GROUND SURFACE. REFERENCE
AQ0250 'MARK 3 WAS FOUND DESTROYED. REFERENCE MARK 4 WAS ESTABLISHED
AQ0250 'AT THIS TIME. DUE TO CHANGES, A COMPLETE NEW DESCRIPTION
AQ0250 'FOLLOWS.
AQ0250 '
AQ0250 'THE STATION IS LOCATED AT VILANO BEACH, THAT IS ABOUT 2-1/2
AQ0250 'MILES NORTHEAST OF SAINT AUGUSTINE.
AQ0250 '
AQ0250 'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 1 AND
AQ0250 'STATE HIGHWAY A1A NORTH, ABOUT 2 MILES NORTH OF DOWNTOWN
AQ0250 'SAINT AUGUSTINE, GO EAST ON STATE HIGHWAY A1A FOR 1.55 MILES
AQ0250 'TO THE EAST END OF THE BRIDGE OVER THE NORTH RIVER. CONTINUE
AQ0250 'EAST ON STATE HIGHWAY A1A FOR 0.25 MILE TO WHERE STATE
AQ0250 'HIGHWAY A1A TURNS LEFT, NORTH AND ROAD TO BEACH CONTINUES EAST
AQ0250 'AND THE STATION ON RIGHT.
AQ0250 '
AQ0250 'STATION MARK, A STANDARD DISK STAMPED VILANO 1933 1962, IS
AQ0250 'SET IN THE TOP OF AN 8-INCH SQUARE CONCRETE MONUMENT THAT
AQ0250 'PROJECTS ABOUT 4 INCHES ABOVE THE GROUND SURFACE. IT IS 183
AQ0250 'FEET SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE VILANO
AQ0250 'BEACH MOTEL, 42 FEET SOUTH OF THE CENTER OF THE SURFACED ROAD
AQ0250 'TO THE BEACH, 71 FEET EAST OF THE CENTER OF THE PROPOSED STATE
AQ0250 'HIGHWAY A1A IF EXTENDED TO THE SOUTH, 2 FEET SOUTH OF A METAL
AQ0250 'WITNESS POST AND 1.7 FEET NORTH OF A METAL WITNESS
AQ0250 'POST.
AQ0250 '
AQ0250 'REFERENCE MARK 1, A STANDARD DISK STAMPED VILANO 1933 NO 1
AQ0250 '1977, IS SET IN THE TOP OF A 15-INCH ROUND CONCRETE MONUMENT AQ0250 THAT PROJECTS 4-INCHES ABOVE THE GROUND SURFACE. IT IS 205 AQ0250 FEET WEST OF THE CENTER OF SURFACED ROAD TO THE SOUTH, 38.5 AQ0250 FEET SOUTH OF THE CENTER OF SURFACED ROAD TO THE BEACH, 3 FEET AQ0250 NORTH OF THE NORTH EDGE OF CONCRETE SIDEWALK AND 1 FOOT NORTH AQ0250 OF A METAL WITNESS POST.
AQ0250
AQ0250 REFERENCE MARK 4, A STANDARD DISK STAMPED VILANO 1933 NO 4 AQ0250 '1977, IS SET IN THE TOP OF A 12-INCH ROUND CONCRETE MONUMENT AQ0250 THAT IS SET FLUSH WITH THE GROUND SURFACE. IT IS 83 FEET EAST AQ0250 OF THE CENTER OF PROPOSED STATE HIGHWAY A1A, 46 FEET NORTH OF AQ0250 THE CENTER OF THE ROAD TO THE BEACH, 11.5 FEET EAST OF A POWER AQ0250 'LINE POLE BRACE POLE, 2.5 FEET SOUTH OF THE SOUTH EDGE OF A AQ0250 CONCRETE SIDEWALK AND 1.5 FEET EAST OF A METAL WITNESS AQ0250 POST.
AQ0250
AQ0250 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN AQ0250 'AT VILANO BEACH.
AQ0250
AQ0250 STATION RECOVERY (1985)
AQ0250
AQ0250 'RECOVERY NOTE BY FL DEPT OF NAT RES 1985
AQ0250 'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
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The NGS Data Sheet

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
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<table>
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<th>STATIONS THAT DO NOT CHECK</th>
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**The NGS Data Sheet**

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

**BC1834**

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<td>USGS QUAD - SOUTH PONTE VEDRA BEACH (1988)</td>
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**BC1834**

*CURRENT SURVEY CONTROL*

**BC1834**

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**BC1834**

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<td>GEOID HEIGHT -</td>
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**BC1834**

HORIZ ORDER - FIRST

**BC1834**

The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1991.

**BC1834**

The orthometric height was scaled from a topographic map.

**BC1834**

The Laplace correction was computed from DEFLEC96 derived deflections.

**BC1834**

The geoid height was determined by GEOID96.

**BC1834**

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**BC1834**

Primary Azimuth Mark

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**BC1834**

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**BC1834**

SUPERSEDED SURVEY CONTROL

**BC1834**

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**BC1834**

Superseded values are not recommended for survey control.

**BC1834**

NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

**BC1834**

See file format.dat to determine how the superseded data were derived.

**BC1834**

MARKER: DS = TRIANGULATION STATION DISK

**BC1834**

SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

**BC1834**

STAMPING: JENKS 2 1917 1933

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
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<tr>
<td>1979</td>
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**STATION DESCRIPTION**

BC1834 DESCRIBED BY COAST AND GEODETIC SURVEY 1933 (HCW)

BC1834 THIS STATION WAS FOUND AS DESCRIBED BY J.S. BILBY IN 1917. THE
BC1834 STATION WAS STAMPED JENKS 2, 1917 - 1933. ON REMOVING THE SURFACE
BC1834 MARK THERE WAS FOUND A DISCREPANCY OF ABOUT 2 INCHES BETWEEN THE
BC1834 SURFACE AND THE SUBSURFACE MARKS. THE SURFACE MARK PROJECTS 7
BC1834 INCHES. THE SUBSURFACE MARK WAS HELD FIXED AND THE NEW MARKS
BC1834 CENTERED OVER ITS OLD POSITION.

BC1834 SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD
BC1834 BRONZE DISKS SET IN CONCRETE.

BC1834 REFERENCE MARK NO. 1 IS W OF THE STATION, ABOUT 30 FEET W OF THE
BC1834 CENTER LINE OF STATE HIGHWAY 78 ON A SANDY SLOPE JUST ABOVE THE W
BC1834 DITCH ALONG THE ROAD. THE MARK PROJECTS 6 INCHES.

BC1834 REFERENCE MARK NO. 2 IS NW OF THE STATION, 26 FEET W OF THE CENTER
BC1834 LINE OF THE ROAD, IN THE DITCH. THE MARK PROJECTS 6 INCHES.

BC1834 AN AZIMUTH MARK IS N OF THE STATION, 32.5 FEET W OF THE CENTER
BC1834 LINE OF THE ROAD, 1.05 MILES N OF THE SECOND FLOWING WELL N OF
BC1834 VILANO BEACH. THE MARK PROJECTS ABOUT 6 INCHES.

BC1834 TO REACH THE STATION FROM ST. AUGUSTINE FOLLOW STATE HIGHWAY 78 E
BC1834 AND N FROM THE INTERSECTION WITH U.S. HIGHWAY 1 A DISTANCE OF 15.25
BC1834 MILES. THIS POINT IS 0.75 MILE N OF THE SECOND FLOWING WELL N OF
BC1834 VILANO BEACH. THE STATION IS E OF THE ROAD ON A SAND DUNE BETWEEN
BC1834 AND 65 FEET W OF THE E EDGE OF THE DUNE.

BC1834 HEIGHT OF TOWER USED WAS 113 FEET.

BC1834 STATION RECOVERY (1934)

BC1834 RECOVERY NOTE BY FLORIDA GEODETIC SURVEY 1934

BC1834 THE STATION IS ABOUT 13 MILES S OF JACKSONVILLE BEACH ON THE
BC1834 FIRST SAND BARRIER THAT PARALLELS THE BEACH. ABOUT 50 METERS
BC1834 FROM HIGH WATER AND 40 METERS E OF STATE HIGHWAY 78, 14 MILES
BC1834 'N OF VILANO BEACH CASINO AND 0.8 MILE N OF A FLOWING WELL ON
BC1834 'E SIDE OF THE HIGHWAY, THE WELL BEING THE SECOND N OF VILANO
BC1834 'CASINO. THE STATION IS 115 FEET E OF THE CENTER LINE OF THE
BC1834 'ROAD.

BC1834 REFERENCE MARK NO. 1 IS W OF STATION. 30 FEET W OF CENTER
BC1834 LINE OF HIGHWAY ON EDGE OF DITCH. PROJECTS 6 INCHES.

BC1834 REFERENCE MARK NO. 2 IS W OF THE STATION, 26 FEET W OF THE
BC1834 CENTER LINE OF THE HIGHWAY ON THE EDGE OF THE DITCH AND PROJECTS
BC1834 6 INCHES.
BC1834' AN AZIMUTH MARK IS N OF THE STATION AND IS 32.5 FEET W OF
BC1834' THE CENTER LINE OF THE ROAD.
BC1834' STATION RECOVERY (1950)
BC1834' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1950 (HPG)
BC1834' STATION, AZIMUTH, AND REFERENCE MARKS WERE RECOVERED IN GOOD
BC1834' CONDITION. THE DISTANCES TO THE REFERENCE MARKS WERE NOT
BC1834' MEASURED. THE ORIGINAL DESCRIPTION IS ADEQUATE WITH THE
BC1834' FOLLOWING CORRECTIONS AND ADDITIONS--
BC1834'
BC1834' STATE HIGHWAY 78 IS NOW STATE HIGHWAY A1A. THE DITCH DESCRIBED
BC1834' HAS BEEN FILLED IN.
BC1834'
BC1834' STATION MARK IS STAMPED JENKS 2 1917 1933.
BC1834'
BC1834' R.M. 1 IS 35.0 FEET W OF THE CENTER OF THE ROAD AND PROJECTS
BC1834' 14 INCHES. IT IS STAMPED JENKS 2 NO 1 1917 1933.
BC1834'
BC1834' R.M. 2 IS 27.5 FEET W OF THE CENTER OF THE ROAD AND PROJECTS
BC1834' 2.0 FEET. IT IS STAMPED JENKS 2 NO 2 1917 1933.
BC1834'
BC1834' AZIMUTH MARK PROJECTS 1 INCH AND IS STAMPED JENKS 2 1917 1933
BC1834' AZIMUTH.
BC1834'
BC1834' STATION RECOVERY (1966)
BC1834'
BC1834' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1966 (HDR)
BC1834' THE STATION MARK AND REFERENCE MARKS NO. 1 AND NO. 2 WERE
BC1834' RECOVERED, IN GOOD CONDITION AS DESCRIBED BY FLORIDA GEODETIC
BC1834' SURVEY, 1934. STATE HIGHWAY 78 IS NOW REDESIGNATED A1A.
BC1834'
BC1834' THE AZIMUTH MARK WAS SEARCHED FOR, BUT NOT RECOVERED.
BC1834'
BC1834' STATION RECOVERY (1968)
BC1834'
BC1834' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1968 (JSR)
BC1834' THE STATION MARK AND REFERENCE MARK NO. 2 WERE FOUND IN GOOD
BC1834' CONDITION. REFERENCE MARK NO. 1 WAS FOUND SOLID, BUT PROTRUDING
BC1834' ABOUT 2 FEET ABOVE GROUND. THE AZIMUTH MARK WAS SEARCHED FOR
BC1834' BUT NOT FOUND.
BC1834'
BC1834' REFERENCE MARK NO. 1 WAS REINFORCED. A METAL WITNESS POST AND
BC1834' SIGN WAS SET 3.0 FEET SOUTH OF THE STATION MARK.
BC1834'
BC1834' AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1834' ABOUT 13 MILES SOUTH OF JACKSONVILLE BEACH.
BC1834'
BC1834' STATION RECOVERY (1970)
BC1834'
BC1834' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (RRG)
BC1834' THE STATION, RM 1 AND RM 2 WERE ALL RECOVERED AND IN GOOD
BC1834' CONDITION. THE STATION WAS VISITED THE ABOVE DATE BUT WAS NOT
BC1834' LEVELLED OVER DUE TO A STEEP HILL AND HEAVY BRUSH. THE
BC1834' AZIMUTH MARK WAS SEARCHED FOR BUT NOT RECOVERED THIS DATE.
BC1834'
BC1834' RM 1 IS ABOUT 0.75 MILE NORTH OF A ROAD SIDE PARK AND A
BC1834' FLOWING ARTESIAN WELL, 36.5 FEET WEST OF THE CENTER LINE OF THE
BC1834' HIGHWAY, 257.0 FEET SOUTH OF JENKS 2 RM 2 DESCRIBED, 2 FEET

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
BC1834 'ABOVE THE LEVEL OF THE HIGHWAY AND SET IN THE TOP OF A
BC1834 'CONCRETE POST PROJECTING 14 INCHES ABOVE THE LEVEL OF THE GROUND.
BC1834 'RM 2 IS 28-1/2 FEET WEST OF THE CENTER LINE OF THE HIGHWAY,
BC1834 '257.0 FEET NORTH OF RM 1 DESCRIBED, 9-1/2 FEET NORTH OF A
BC1834 'POWER LINE POLE, 2-1/2 FEET NORTH OF A METAL WITNESS POST, 1
BC1834 'FOOT ABOVE THE LEVEL OF THE HIGHWAY AND SET IN THE TOP OF A
BC1834 'CONCRETE POST PROJECTING 14 INCHES ABOVE THE LEVEL OF THE GROUND.
BC1834 'NOTE--THE STATION MARK IS IN EXCELLENT CONDITION.
BC1834 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1834 '15.65 MILES NORTH OF ST AUGUSTINE.
BC1834 
BC1834 'STATION RECOVERY (1973)
BC1834 
BC1834 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (DMF)
BC1834 'RECOVERED AS DESCRIBED BY RRG IN 1970.
BC1834 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
BC1834 '13 MILES S OF JACKSONVILLE BEACH.
BC1834 
BC1834 'STATION RECOVERY (1979)
BC1834 
BC1834 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1979 (RST)
BC1834 'THE STATION MARK, RM 1 AND RM 2 WERE RECOVERED IN GOOD CONDITION.
BC1834 'THE 1970 DESCRIPTION BY R. R. G. IS ADEQUATE WITH THE ADDITION OF
BC1834 'THE FOLLOWING TO REACH--
BC1834 'TO REACH FROM THE JACKSONVILLE BEACH POST OFFICE GO SOUTH ON STATE
BC1834 'HIGHWAY A1A FOR 10.8 MILES TO THE JUNCTION OF COUNTY ROAD C-203
BC1834 'NORTH, CONTINUE SOUTH ON STATE HIGHWAY A1A FOR 3.75 MILES TO STATION
BC1834 'ON THE EAST SIDE OF A1A.
BC1834 'TO REACH FROM THE CENTER DRAW SPAN OF THE STATE HIGHWAY A1A BRIDGE
BC1834 'ACROSS THE TOLONATO RIVER (INTRACOASTAL WATERWAY) AT VILANO BEACH
BC1834 'GO NORTH FOR 14.8 MILES TO THE STATION ON THE EAST SIDE OF A1A.
BC1834 'THE STATION IS 0.2 MILE SOUTH OF A SAND ROAD LEADING WEST TO A SAND
BC1834 'BOAT LAUNCHING RAMP.

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

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

BC1082

DESIGNATION - I95 72 A04
BC1082 PID - BC1082
BC1082 STATE/COUNTY- FL/ST JOHNS
BC1082 USGS QUAD - ORANGEDALE (1993)
BC1082

*CURRENT SURVEY CONTROL

BC1082 NAD 83(1990) - 30 06 10.32103(N) 081 30 07.51679(W) ADJUSTED
BC1082 NAVD 88 - 14.023 (meters) 46.01 (feet) ADJUSTED

BC1082 LAPLACE CORR- -1.09 (seconds) DEFLLEC95
BC1082 GEOID HEIGHT- -28.32 (meters) GEOID96
BC1082 DYNAMIC HT - 14.005 (meters) 45.95 (feet) COMP
BC1082 MODELED GRAV- 979,341.8 (mgal) NAVD 88
BC1082

BC1082 HORZ ORDER - SECOND
BC1082 VERT ORDER - SECOND CLASS 0
BC1082

The horizontal coordinates were established by classical geodetic methods
and adjusted by the National Geodetic Survey in May 1991.

The orthometric height was determined by differential leveling
and adjusted by the National Geodetic Survey in June 1991.

The Laplace correction was computed from DEFLLEC95 derived deflections.

The geoid height was determined by GEOID96.

The dynamic height is computed by dividing the NAVD 88
gEOID96.geopotential number by the normal gravity value computed on the
Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
degrees latitude (G = 980.6199 gals).

The modeled gravity was interpolated from observed gravity values.

BC1082

BC1082: SPC FL E - 639,376.416 151,607.974 MT 0.99997006 -0 15 06.6
BC1082: UTM 17 - 3,330,290.244 451,624.486 MT 0.99962887 -0 15 06.6
BC1082

Primary Azimuth Mark
BC1082: SPC FL E - I95 72 A05 157 57 29.2
BC1082: UTM 17 - I95 72 A05 157 57 29.2
BC1082

BC1082

BC1082 PID Reference Object Distance Geod. Az
BC1082 dddmmss.s
BC1082 BC0538 I95 72 A05 APPROX. 1.2 KM 1574222.6
BC1082 BC1083 I95 U 2 9.020 METERS 27346
BC1082 BC1084 I95 V 2 18.045 METERS 30257
BC1082

SUPERSEDED SURVEY CONTROL

http://www.ngs.noaa.gov/cgi-bin/env cgi
BC1082 NAD 83 (1986) - 30 06 10.32718 (N) 081 30 07.52730 (W) ADJUSTED
BC1082 NAD 27 - 30 06 09.45213 (N) 081 30 08.22275 (W) ADJUSTED
BC1082 NGVD 29 - 14.345 (meters) 47.06 (feet) ADJ UNCH
BC1082
BC1082 Superseded values are not recommended for survey control.
BC1082 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
BC1082 See file format.dat to determine how the superseded data were derived.
BC1082
BC1082_MARKER: DD = SURVEY DISK
BC1082_SETTING: 36 = SET IN A MASSIVE STRUCTURE
BC1082_STAMPING: I95 72 A04
BC1082_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
BC1082
BC1082 HISTORY - Date Condition  Recov. By
BC1082 HISTORY - 1972 MONUMENTED FLDT
BC1082 HISTORY - 1972 GOOD FLDT
BC1082 HISTORY - 1973 GOOD NGS
BC1082
BC1082 STATION DESCRIPTION
BC1082
BC1082 DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1972 (CBM)
BC1082 STATION IS LOCATED ABOUT 11 MILES NORTHEAST OF GREEN COVE SPRINGS
BC1082 AND 0.2 MILE SOUTHEAST OF THE DUVAL-ST. JOHNS COUNTY LINE ON THE
BC1082 RACE TRACK ROAD BRIDGE OVER INTERSTATE ROUTE 95.
BC1082
BC1082 TO REACH STATION FROM THE INTERSECTION OF U.S. ROUTE 1 AND
BC1082 INTERSTATE ROUTE 95, ABOUT 12 MILES SOUTHEAST OF DOWNTOWN
BC1082 JACKSONVILLE, GO SOUTHERLY ON U.S. ROUTE 1 FOR 7.6 MILES TO THE
BC1082 DUVAL-ST. JOHNS COUNTY LINE AND INTERSECTION OF RACE TRACK ROAD,
BC1082 TURN RIGHT AND GO WESTERLY ON RACE TRACK ROAD FOR 1.50 MILES TO
BC1082 BRIDGE OVER INTERSTATE ROUTE 95 AND STATION IN SHOULDER OF
BC1082 ROAD NEAR THE SOUTHEAST CORNER OF THE BRIDGE.
BC1082
BC1082 STATION MARK IS A STANDARD FLORIDA, DEPARTMENT OF TRANSPORTATION
BC1082 BRASS DISK, STAMPED I95 72 A04, SET IN THE TOP OF A ROUND
BC1082 CONCRETE MONUMENT THAT IS 1 INCH BELOW THE GROUND. IT IS 7.6 FEET
BC1082 EAST-NORTHEAST OF A METAL WITNESS POST, 8.6 FEET EAST-NOR"EAST
BC1082 OF EAST END OF CONCRETE GUARDRAIL AND 16.2 FEET SOUTH OF
BC1082 CENTER OF RACE TRACK ROAD.
BC1082
BC1082 REFERENCE MARK NO. 1 IS A STANDARD FLORIDA, STATE ROAD
BC1082 DEPARTMENT BRASS DISK STAMPED BM I95 U 2, PRESET IN TOP OF
BC1082 CONCRETE CURB OF BRIDGE. IT IS 1.0 FEET WEST OF AN EXPANSION
BC1082 JOINT, 15.0 FEET SOUTH OF CENTER OF RACE TRACK ROAD AND 21.5
BC1082 FEET WEST OF END OF CONCRETE GUARDRAIL.
BC1082
BC1082 REFERENCE MARK NO. 2 IS A STANDARD FLORIDA, STATE ROAD DEPARTMENT
BC1082 BRASS DISK, STAMPED BM I95 V 2, PRESET IN TOP OF CONCRETE CURB
BC1082 OF BRIDGE. IT IS 0.6 FEET EAST OF AN EXPANSION JOINT, 10.3
BC1082 FEET WEST-SOUTHWEST OF END OF CONCRETE GUARDRAIL AND 14.7 FEET
BC1082 NORTH OF CENTER OF RACE TRACK ROAD.
BC1082
BC1082 DISTANCE BETWEEN REFERENCE MARK NO. 1 AND REFERENCE MARK NO. 2
BC1082 IS 11.080 METERS, OR (36.35 FEET).
BC1082
BC1082 STATION RECOVERY (1972)
BC1082
BC1082 RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 1972
BC1082 10.3 MI SE FROM BAYARD.
BC1082 FROM THE INTERSECTION OF OLD ST. AUGUSTINE ROAD WITH U.S.-1
BC1082* IN BAYARD PROCEED NORTH WEST ON U.S.-1 FOR 3.6 MILES TO
BC1082* INTERSECTION WITH INTERSTATE ROUTE 95, THEN SOUTHEAST ON
BC1082* INTERSTATE ROUTE 95 FOR 6.7 MILES TO RACE TRACK ROAD BRIDGE
BC1082* OVER INTERSTATE ROUTE 95 AND STATION, WHICH IS A DEPARTMENT OF
BC1082* TRANSPORTATION BRASS DISK LOCATED IN BRIDGE APPROACH AT SOUTH
BC1082* EAST END OF RACE TRACK ROAD BRIDGE OVER I95 AND IS 1.0 INCH
BC1082* BELOW THE BRIDGE APPROACH. IT IS 7.6 FEET EAST NORTH EAST OF A
BC1082* METAL WITNESS POST, 16.2 FEET SOUTH OF THE CENTERLINE OF RACE
BC1082* TRACK ROAD, AND 8.6 FEET EAST NORTHEAST OF EAST END OF CONCRETE
BC1082* GUARD RAIL. SECTION 4, T 5 S, R 28 E. NOTE-- THIS IS A TRAVERSE
BC1082* STATION.

BC1082
BC1082  STATION RECOVERY (1973)
BC1082
BC1082  RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973
BC1082  RECOVERED IN GOOD CONDITION.

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

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998

```
| BC0608 | NAD 83 (1986) - 30 01 46. (N) 081 19 30. (W) SCALED |
| BC0608 | NAVD 88 - 4.550 (meters) 14.93 (feet) ADJUSTED |
| BC0608 | GEOID HEIGHT - 28.50 (meters) GEOID96 |
| BC0608 | DYNAMIC HT - 4.544 (meters) 14.91 (feet) COMP |
| BC0608 | MODELED GRAV - 979,336.7 (mgal) NAVD 88 |
| BC0608 | VERT ORDER - SECOND CLASS 0 |
| BC0608 | The horizontal coordinates were scaled from a topographic map and have |
| BC0608 | an estimated accuracy of +/- 6 seconds. |
| BC0608 | The orthometric height was determined by differential leveling |
| BC0608 | and adjusted by the National Geodetic Survey in June 1991. |
| BC0608 | The geoid height was determined by GEOID96. |
| BC0608 | The dynamic height is computed by dividing the NAVD 88 |
| BC0608 | geopotential number by the normal gravity value computed on the |
| BC0608 | Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 |
| BC0608 | degrees latitude (G = 980.6199 gals.). |
| BC0608 | The modeled gravity was interpolated from observed gravity values. |
| BC0608 | North East Units Estimated Accuracy |
| BC0608 | SPC FL E 631,180. 168,650. MT (+/- 180 meters Scaled) |
| BC0608 | SUPERSEDED SURVEY CONTROL |
| BC0608 | NGVD 29 - 4.883 (meters) 16.02 (feet) ADJ UNCH |
| BC0608 | Superseded values are not recommended for survey control. |
| BC0608 | NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. |
| BC0608 | See file format.dat to determine how the superseded data were derived. |
| BC0608 | MARKER: DD = SURVEY DISK |
| BC0608 | SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND) |
| BC0608 | STAMPING: E 8 |
| BC0608 | STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO |
| BC0608 | STABILITY: SURFACE MOTION |
| BC0608 | HISTORY - Date Condition Recov. By |
| BC0608 | UNK MONUMENTED FLGS |
| BC0608 | 1970 GOOD NGS |
| BC0608 | STATION DESCRIPTION |
```

http://www.ngs.noaa.gov/cgi-bin/env_cgi 6/5/98
BC0608
DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
10 MI N FROM ST AUGUSTINE.
ABOUT 10.0 MILES NORTH ALONG STATE HIGHWAY A1A FROM THE JUNCTION
OF U.S. HIGHWAY 1 AT ST AUGUSTINE, ABOUT 0.6 MILE NORTH OF A
SMALL ROADSIDE PARK WITH ARTESIAN WELL AT SOUTH PONTE VEDRA
BEACH, 28 1/2 FEET WEST OF THE CENTER LINE OF THE HIGHWAY, 3 1/2
FEET EAST OF A WHITE WOODEN WITNESS POST, 1.2 FEET WEST OF A
METAL WITNESS POST, ABOUT 3 FEET ABOVE THE LEVEL OF THE HIGHWAY,
AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.2 FOOT.
SEC 31, T 5 S, R 30 E.

**retrieval complete.**

Elapsed Time = 00:00:01
The NGS Data Sheet

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 5.60
Starting Datasheet Retrieval...

1 National Geodetic Survey, Retrieval Date = JUNE 5, 1998
AQ2644 ************************************************************
AQ2644 CBN - This is a Cooperative Base Network Control Station.
AQ2644 PACS - This is a Primary Airport Control Station.
AQ2644 DESIGNATION - FLAGPORT
AQ2644 PID - AQ2644
AQ2644 STATE/COUNTY- FL/FLAGLER
AQ2644 USGS QUAD - FLAGLER BEACH WEST (1981)
AQ2644
AQ2644 *CURRENT SURVEY CONTROL
AQ2644
AQ2644* NAD 83(1990) - 29 27 54.58070 (N) 081 12 23.42667 (W) ADJUSTED
AQ2644* NAVD 88 - 9.277 (meters) 30.44 (feet) ADJUSTED
AQ2644
AQ2644 X - 849,616.809 (meters) COMP
AQ2644 Y - -5,492,316.661 (meters) COMP
AQ2644 Z - 3,118,883.603 (meters) COMP
AQ2644 LAPLACE CORR- -0.37 (seconds) DEFLEC96
AQ2644 ELLIP HEIGHT- -19.40 (meters) GPS OBS
AQ2644 GEOID HEIGHT- -28.58 (meters) GEOID96
AQ2644 DYNAMIC HT - 9.265 (meters) 30.40 (feet) COMP
AQ2644 MODELED GRAV- 979,286.8 (mgal) NAVD 88
AQ2644
AQ2644 HORIZ ORDER - B
AQ2644 VERT ORDER - FIRST CLASS II
AQ2644 ELLIP ORDER - FOURTH CLASS I
AQ2644
AQ2644 This mark is at Flagler County Airport (X47)
AQ2644
AQ2644 The horizontal coordinates were established by GPS observations
AQ2644 and adjusted by the National Geodetic Survey in September 1990.
AQ2644
AQ2644 The orthometric height was determined by differential leveling
AQ2644 and adjusted by the National Geodetic Survey in May 1994.
AQ2644 WARNING-GPS observations at this control monument resulted in a GPS
AQ2644 derived orthometric height which differed from the leveled height by
AQ2644 more than one decimeter (0.1 meter).
AQ2644
AQ2644 The X, Y, and Z were computed from the position and the ellipsoidal ht.
AQ2644
AQ2644 The Laplace correction was computed from DEFLEC96 derived deflections.
AQ2644
AQ2644 The ellipsoidal height was determined by GPS observations
AQ2644 and is referenced to NAD 83.
AQ2644
AQ2644 The geoid height was determined by GEOID96.
AQ2644
AQ2644 The dynamic height is computed by dividing the NAVD 88
AQ2644 geopotential number by the normal gravity value computed on the
AQ2644 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AQ2644 degrees latitude (\( \delta = 980.6199 \text{ gals} \)).
AQ2644
AQ2644 The modeled gravity was interpolated from observed gravity values.
AQ2644
AQ2644
North East Units Scale Converg.
Data Sheet Retrieval

AQ2644;SPC FL E  - 568,603.066  179,970.049  MT 0.99994613  -0 06 05.7
AQ2644;UTM 17  - 3,259,541.042  479,976.884  MT 0.99960495  -0 06 05.7
AQ2644
AQ2644: Primary Azimuth Mark
AQ2644:SPC FL E  - FLAGPORT AZ MK
AQ2644:UTM 17  - FLAGPORT AZ MK
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644

SUPERSEDED SURVEY CONTROL

AQ2644
AQ2644
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AQ2644

HISTORY - Date Condition Recov. By
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644

STATION DESCRIPTION

AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644
AQ2644

'DESCRIBED BY NATIONAL GEODETIC SURVEY 1988

'AQ2644'THE STATION IS LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF BUNNELL, AT THE

'AQ2644'FLAGLER COUNTY AIRPORT, NEAR THE INTERSECTION OF RUNWAY 06-24 AND

'AQ2644'ABANDONED RUNWAY 02-20, BETWEEN RUNWAY 06-24 AND A TAXIWAY, NEAR THE

'AQ2644'DIVIDE LINE OF SECTIONS 17 AND 18, T 12 S, R 31 E. OWNERSHIP--COUNTY

'AQ2644'OF FLAGLER, P.O. BOX 787, BUNNELL FL 32010, BRYAN COOPER - AIRPORT

'AQ2644'MANAGER, PHONE 904-437-0401. NOTE--PERMISSION MUST BE OBTAINED BEFORE

'AQ2644'ENTERING AIRPORT.

'AQ2644'TO REACH THE STATION FROM THE INTERSTATE HIGHWAY 95 OVERPASS OVER

'AQ2644'STATE HIGHWAY 100, ABOUT 5.63 KM (3.50 MI) WEST OF FLAGLER BEACH, GO

'AQ2644'WEST FOR 2.33 KM (1.45 MI) ON HIGHWAY 100 TO A PAVED ROAD LEFT AND

'AQ2644'AIRPORT SIGN. TURN LEFT AND GO SOUTH FOR 0.32 KM (0.20 MI) ON THE

'AQ2644'PAVED ROAD, STAYING TO THE LEFT OF RESTAURANT, TO A CABLE GATE. PASS

'AQ2644'THROUGH GATE, CONTINUE AHEAD AND GO SOUTH FOR 30 M (98.4 FT) TO A

'AQ2644'TAXIWAY. TURN LEFT AND GO EAST-SOUTHEAST FOR 0.80 KM (0.50 MI) ON THE

'AQ2644'TAXIWAY TO A TAXIWAY ON RIGHT. TURN RIGHT AND GO SOUTHWEST FOR 0.72

'AQ2644'KM (0.45 MI) ON THE TAXIWAY TO THE STATION ON LEFT, JUST BEFORE

'AQ2644'ABANDONED RUNWAY 02-20.
THE STATION IS RECESSED 11 CM BELOW GROUND. LOCATED 84.58 M
"277.5 FT") SOUTH-SOUTHEAST FROM THE JUNCTION OF THE CENTER OF A
NORTH-EAST-SOUTHWEST TAXIWAY AND THE EASTERN EDGE OF ABANDONED RUNWAY
"02-20, 79.10 M (259.5 FT) EAST-SOUTHEAST FROM THE APPROXIMATE CENTER
OF ABANDONED RUNWAY 02-20, 78.03 M (256.0 FT) NORTHWEST FROM THE
APPROXIMATE CENTER OF RUNWAY 06-24, 67.54 M (221.6 FT) SOUTHWEST FROM
THE SOUTH CORNER OF A 0.91 M (3.0 FT) BY 1.37 M (4.5 FT) CONCRETE
STORM DRAIN, 63.86 M (209.5 FT) NORTH-NORTHEAST FROM THE JUNCTION OF
THE CENTER OF A NORTHWEST-SOUTHEAST TAXIWAY AND THE NORTHWEST EDGE OF
RUNWAY 06-24 AND 36.58 M (120.0 FT) EAST-NORTHEAST FROM THE
APPROXIMATE CENTER OF A NORTHWEST-SOUTHEAST TAXIWAY. NOTE--ACCESS TO
DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
"DESCRIBED BY D.F. CALLAHAN.

STATION RECOVERY (1989)

RECOVERED 1989
RECOVERED IN GOOD CONDITION.

STATION RECOVERY (1989)

RECOVERED 1989
RECOVERED IN GOOD CONDITION.

STATION RECOVERY (1990)

RECOVERY NOTE BY STEINMAN AND ASSOCIATES 1990
RECOVERED IN GOOD CONDITION AS DESCRIBED IN PART I OF THE RECOVERY
NOTES FROM FLORIDA HIGH PRECISION NETWORK NGS PROJECT NUMBER-
NGS-170.

STATION RECOVERY (1991)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
"7.9 KM (4.9 MI) WESTERLY ALONG STATE HIGHWAY 100 (MOODY BOULEVARD) FROM
THE JUNCTION OF STATE HIGHWAY A1A (OCEAN SHORE BOULEVARD) IN FLAGLER
BEACH, THENCE 0.4 KM (0.2 MI) SOUTHERLY ALONG THE FLAGLER COUNTY
AIRPORT ENTRANCE ROAD, THENCE 0.8 KM (0.5 MI) EASTERNLY ALONG A
TAXIWAY, THENCE 0.8 KM (0.5 MI) SOUTHWESTERLY ALONG RUNWAY 06-24,
84.6 M (277.6 FT)) SOUTHEAST OF THE CENTER OF A TAXIWAY AND THE EASE EDGE OF RUNWAY 02-20, 48.8 M (160.1 FT) EAST-SOUTHEAST OF THE CENTER OF A TAXIWAY AND THE EAST EDGE OF RUNWAY 02-20, 47.7 M
(156.5 FT) NORTHWEST OF THE NORTHWEST EDGE OF RUNWAY 06-24, 36.6 M
(120.1 FT) NORTHWEST OF THE CENTER OF A TAXIWAY, AND 0.3 M (1.0 FT)
SOUTHWEST OF A WITNESS POST. NOTE--ACCESS TO THE DATUM POINT IS
THROUGH A 5-INCH LOGO CAP.

STATION RECOVERY (1995)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
THE STATION IS LOCATED ABOUT 3.0 MI (4.8 KM) EAST OF BUNNELL, AT THE
FLAGLER COUNTY AIRPORT, NEAR THE INTERSECTION OF RUNWAY 06-24 AND ABANDONED RUNWAY 02-20, AND BETWEEN RUNWAY 06-24 AND A TAXIWAY.
OWNERSHIP--COUNTY OF FLAGLER, PO BOX 787, BUNNELL, FL 32010. AIRPORT MANAGER IS BRYAN COOPER, PHONE (904) 437-0402. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 95 AND STATE HIGHWAY 100 (ABOUT 3.5 MI (5.6 KM) WEST OF FLAGLER BEACH), GO WEST ON STATE HIGHWAY FOR 1.45 MI (2.33 KM) TO A PAVED ROAD LEFT AND AIRPORT SIGN.
TURN LEFT AND GO SOUTH ON THE PAVED ROAD FOR 0.2 MI (0.3 KM) (STAYING LEFT OF RESTAURANT) TO A CABLE GATE. PASS THROUGH GATE AND CONTINUE
AQ2644 'SOUTH FOR 100 FT (30.5 M) TO A TAXIWAY. TURN LEFT AND GO
AQ2644 'EAST-SOUTHEAST ON THE TAXIWAY FOR 0.1 MI (0.2 KM) TO THE ABANDONED
AQ2644 'RUNWAY 02-20 ON THE RIGHT. TURN RIGHT AND GO SOUTH-SOUTHWEST ON
AQ2644 'ABANDONED RUNWAY 02-20 FOR 0.1 MI (0.2 KM) TO RUNWAY 11-29. CONTINUE
AQ2644 'AHEAD, ACROSS RUNWAY 11-29, FOR 0.3 MI (0.5 KM) TO THE STATION ON THE
AQ2644 'LEFT. THE STATION IS 259.5 FT (79.1 M) EAST-SOUTHEAST OF THE
AQ2644 'APPROXIMATE CENTER OF ABANDONED RUNWAY 02-20, 255.0 FT (77.7 M)
AQ2644 'NORTHWEST OF THE APPROXIMATE CENTER OF RUNWAY 06-24, 221.6 FT (67.5 M)
AQ2644 'SOUTHWEST OF THE SOUTH CORNER OF A 3.0 FT (0.9 M) BY 4.5 FT (1.4 M)
AQ2644 'CONCRETE STORM DRAIN, 120.5 FT (36.7 M) EAST-NORTHEAST OF THE
AQ2644 'APPROXIMATE CENTER OF A NORTHWEST-SOUTHEAST TAXIWAY, AND 1.3 FT (0.4
AQ2644 'M) EAST-NORHEAST OF A WITNESS POST. THIS STATION IS THE PRIMARY
AQ2644 'AIRPORT CONTROL STATION.

*** retrieval complete.
Elapsed Time = 00:00:01