

1 National Geodetic Survey, Retrieval Date = August 3, 2007
 JV6274 *****

JV6274 DESIGNATION - WEBSTER P0250

JV6274 PID - JV6274
 JV6274 STATE/COUNTY- MD/HARFORD
 JV6274 USGS QUAD - ABERDEEN (1985)

JV6274
 JV6274 *CURRENT SURVEY CONTROL

JV6274* NAD 83(1991)- 39 34 26.11939(N) 076 09 45.32879(W) ADJUSTED
 JV6274* NAVD 88 - 123.596 (meters) 405.50 (feet) ADJUSTED

JV6274 X - 1,177,433.685 (meters) COMP
 JV6274 Y - -4,780,176.095 (meters) COMP
 JV6274 Z - 4,041,690.832 (meters) COMP
 JV6274 LAPLACE CORR- -2.65 (seconds) DEFLEC99
 JV6274 ELLIP HEIGHT- 90.673 (meters) (09/18/02) GPS OBS
 JV6274 GEOID HEIGHT- -32.95 (meters) GEOID03
 JV6274 DYNAMIC HT - 123.535 (meters) 405.30 (feet) COMP
 JV6274 MODELED GRAV- 980,134.1 (mgal) NAVD 88

JV6274 HORZ ORDER - FIRST
 JV6274 VERT ORDER - FIRST CLASS II
 JV6274 ELLP ORDER - FOURTH CLASS II

JV6274.The horizontal coordinates were established by GPS observations
 JV6274.and adjusted by the National Geodetic Survey in January 1992.
 JV6274
 JV6274.The orthometric height was determined by differential leveling
 JV6274.and adjusted by the NATIONAL GEODETIC SURVEY in June 1991.
 JV6274
 JV6274.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 JV6274
 JV6274.The Laplace correction was computed from DEFLEC99 derived deflections.
 JV6274
 JV6274.The ellipsoidal height was determined by GPS observations
 JV6274.and is referenced to NAD 83.
 JV6274
 JV6274.The geoid height was determined by GEOID03.
 JV6274
 JV6274.The dynamic height is computed by dividing the NAVD 88
 JV6274.geopotential number by the normal gravity value computed on the
 JV6274.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JV6274.degrees latitude (g = 980.6199 gals.).
 JV6274
 JV6274.The modeled gravity was interpolated from observed gravity values.

JV6274;		North	East	Units	Scale	Factor	Converg.
JV6274;SPC MD	-	212,052.318	471,952.743	MT	1.00002403	+0 31	32.1
JV6274;SPC MD	-	695,708.31	1,548,398.29	sFT	1.00002403	+0 31	32.1
JV6274;UTM 18	-	4,381,113.924	400,146.207	MT	0.99972276	-0 44	26.6
JV6274!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
JV6274!SPC MD	-	0.99998577	x	1.00002403	=	1.00000980	
JV6274!UTM 18	-	0.99998577	x	0.99972276	=	0.99970854	

JV6274

JV6274: Primary Azimuth Mark Grid Az
 JV6274:SPC MD - WEBSTER AZ MK 254 16 50.2
 JV6274:UTM 18 - WEBSTER AZ MK 255 32 48.9

JV6274
 JV6274 |-----|
 JV6274 | PID Reference Object Distance Geod. Az |
 JV6274 | | | | dddmmss.s |
 JV6274 | JV6310 WEBSTER AZ MK APPROX. 0.6 KM 2544822.3 |
 JV6274 |-----|

JV6274
 JV6274 SUPERSEDED SURVEY CONTROL
 JV6274
 JV6274 ELLIP H (01/27/92) 90.663 (m) GP() 4 1
 JV6274 NAD 83(1986)- 39 34 26.11275(N) 076 09 45.33491(W) AD() 1
 JV6274 NGVD 29 (06/18/91) 123.83 (m) 406.3 (f) LEVELING 3
 JV6274

JV6274.Superseded values are not recommended for survey control.
 JV6274.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6274.[See file dsdata.txt](#) to determine how the superseded data were derived.
 JV6274

JV6274_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SVJ0014681114(NAD 83)
 JV6274_MARKER: DD = SURVEY DISK
 JV6274_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JV6274_SP_SET: CONCRETE POST
 JV6274_STAMPING: 25 WEBSTER 1989
 JV6274_MARK LOGO: MD-025
 JV6274_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 JV6274_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JV6274+STABILITY: SURFACE MOTION
 JV6274_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 JV6274+SATELLITE: SATELLITE OBSERVATIONS - 1989

JV6274
 JV6274 HISTORY - Date Condition Report By
 JV6274 HISTORY - 1989 MONUMENTED RDA

JV6274
 JV6274 STATION DESCRIPTION
 JV6274

JV6274'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
 JV6274'THE STATION IS LOCATED IN SOUTHEASTERN HARFORD COUNTY, MARYLAND ABOUT
 JV6274'2.6 MILES NORTHWEST OF THE TOWN OF HAVRE DE GRACE ON STATE HIGHWAY
 JV6274'155 NEAR THE VILLAGE OF WEBSTER. TO REACH THE STATION FROM THE
 JV6274'INTERCHANGE OF U.S. HIGHWAY 95 AND STATE HIGHWAY 155 PROCEED
 JV6274'NORTHWEST ALONG HIGHWAY 155 1.55 MILES TO WEBSTER-LAPIDUM ROAD AND
 JV6274'THE STATION ON THE RIGHT. THE STATION IS A STANDARD HARFORD COUNTY
 JV6274'STATION DISC SET IN CONCRETE ABOUT 1 INCH BELOW GROUND STAMPED 25
 JV6274'WEBSTER 1989. THE STATION IS 15.4 FEET NORTHWEST FROM G AND E POWER
 JV6274'POLE NUMBER 488888, 34.2 FEET SOUTHWEST FROM THE END OF A GUARD RAIL,
 JV6274'16.0 FEET WEST FROM THE WEST EDGE OF PAVEMENT OF WEBSTER-LAPIDUM
 JV6274'ROAD.

**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
 NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE 039 34 26.11274 NORTH(sf) 695707.635
 LONGITUDE 076 09 45.33473 EAST(sf) 1548397.833
 GRID AZ. 254 16 50.7 ELEV. LEVEL OBS. 406.28 ft

1 National Geodetic Survey, Retrieval Date = August 3, 2007
 JV6310 *****

JV6310 DESIGNATION - WEBSTER AZ MK P0251

JV6310 PID - JV6310
 JV6310 STATE/COUNTY- MD/HARFORD
 JV6310 USGS QUAD - ABERDEEN (1985)

JV6310 *CURRENT SURVEY CONTROL

JV6310* NAD 83(1991)- 39 34 21.33818(N) 076 10 08.07451(W) ADJUSTED
 JV6310* NAVD 88 - 126.820 (meters) 416.08 (feet) ADJUSTED

JV6310 X - 1,176,929.599 (meters) COMP
 JV6310 Y - -4,780,399.541 (meters) COMP
 JV6310 Z - 4,041,579.228 (meters) COMP
 JV6310 LAPLACE CORR- -2.55 (seconds) DEFLEC99
 JV6310 ELLIP HEIGHT- 93.904 (meters) (09/18/02) GPS OBS
 JV6310 GEOID HEIGHT- -32.94 (meters) GEOID03
 JV6310 DYNAMIC HT - 126.758 (meters) 415.87 (feet) COMP
 JV6310 MODELED GRAV- 980,133.9 (mgal) NAVD 88

JV6310 HORZ ORDER - FIRST
 JV6310 VERT ORDER - FIRST CLASS II
 JV6310 ELLP ORDER - FOURTH CLASS II

JV6310.The horizontal coordinates were established by GPS observations
 JV6310.and adjusted by the National Geodetic Survey in January 1992.

JV6310.The orthometric height was determined by differential leveling
 JV6310.and adjusted by the NATIONAL GEODETIC SURVEY in June 1991.

JV6310.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 JV6310

JV6310.The Laplace correction was computed from DEFLEC99 derived deflections.
 JV6310

JV6310.The ellipsoidal height was determined by GPS observations
 JV6310.and is referenced to NAD 83.

JV6310.The geoid height was determined by GEOID03.
 JV6310

JV6310.The dynamic height is computed by dividing the NAVD 88
 JV6310.geopotential number by the normal gravity value computed on the
 JV6310.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 JV6310.degrees latitude (g = 980.6199 gals.).

JV6310.The modeled gravity was interpolated from observed gravity values.
 JV6310

		North	East	Units	Scale	Factor	Converg.
JV6310;SPC MD	-	211,899.903	471,411.217	MT	1.00002375	+0 31	17.8
JV6310;SPC MD	-	695,208.27	1,546,621.63	sFT	1.00002375	+0 31	17.8
JV6310;UTM 18	-	4,380,973.557	399,601.608	MT	0.99972410	-0 44	41.0

JV6310!
 JV6310!SPC MD - Elev Factor x Scale Factor = Combined Factor
 JV6310!UTM 18 - 0.99998527 x 1.00002375 = 1.00000902
 JV6310!UTM 18 - 0.99998527 x 0.99972410 = 0.99970937
 JV6310

JV6310: Primary Azimuth Mark Grid Az
 JV6310:SPC MD - WEBSTER 074 16 50.0
 JV6310:UTM 18 - WEBSTER 075 32 48.8

JV6310	PID	Reference Object	Distance	Geod. Az
JV6310	JV6274	WEBSTER	APPROX. 0.6 KM	0744807.8

JV6310
 SUPERSEDED SURVEY CONTROL
 JV6310
 ELLIP H (01/27/92) 93.894 (m) GP() 4 1
 NAD 83(1986)- 39 34 21.33153(N) 076 10 08.08063(W) AD() 1
 NGVD 29 (06/18/91) 127.06 (m) 416.9 (f) LEVELING 3

JV6310.Superseded values are not recommended for survey control.
 JV6310.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6310.[See file dsdata.txt](#) to determine how the superseded data were derived.

JV6310_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9960280974(NAD 83)
 JV6310_MARKER: DZ = AZIMUTH MARK DISK
 JV6310_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JV6310_SP_SET: CONCRETE POST
 JV6310_STAMPING: 25 WEBSTER 1989
 JV6310_MARK LOGO: MD-025

JV6310_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 JV6310_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JV6310+STABILITY: SURFACE MOTION
 JV6310_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 JV6310+SATELLITE: SATELLITE OBSERVATIONS - 1989

JV6310	HISTORY	Date	Condition	Report By
JV6310	HISTORY	- 1989	MONUMENTED	RDA

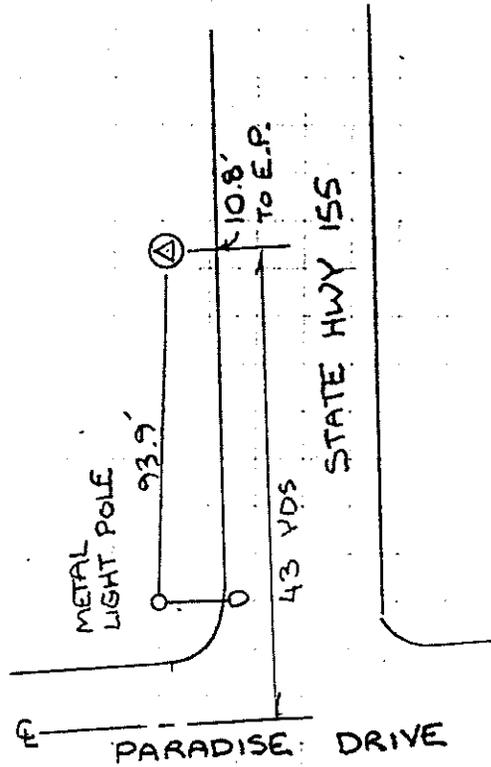
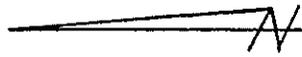
JV6310 STATION DESCRIPTION

JV6310'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
 JV6310'THE STATION IS LOCATED IN SOUTHEASTERN HARFORD COUNTY, MARYLAND ABOUT
 JV6310'2.6 MILES NORTHWEST OF THE TOWN OF HAVRE DE GRACE ON STATE HIGHWAY
 JV6310'155 NEAR THE VILLAGE OF WEBSTER. TO REACH THE STATION FROM THE
 JV6310'INTERCHANGE OF U.S. HIGHWAY 95 AND STATE HIGHWAY 155 PROCEED
 JV6310'NORTHWEST ALONG HIGHWAY 155 1.55 MILES TO WEBSTER-LAPIDUM ROAD AND
 JV6310'THE STATION ON THE RIGHT. TO REACH THE AZIMUTH MARK FROM THE STATION
 JV6310'PROCEED WEST ALONG HIGHWAY 155 0.35 MILES TO THE MARK ON THE RIGHT.
 JV6310'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISC SET IN CONCRETE
 JV6310'ABOUT 1 INCH BELOW GROUND STAMPED 25 WEBSTER 1989. THE MARK IS 93.9
 JV6310'FEET EAST FROM A METAL LIGHT POLE, 10.8 FEET NORTH FROM THE NORTH
 JV6310'EDGE OF PAVEMENT OF HIGHWAY 155, 48 YARDS EAST OF THE CENTERLINE OF
 JV6310'PARADISE DRIVE AND 1845.61 FEET FROM THE STATION.

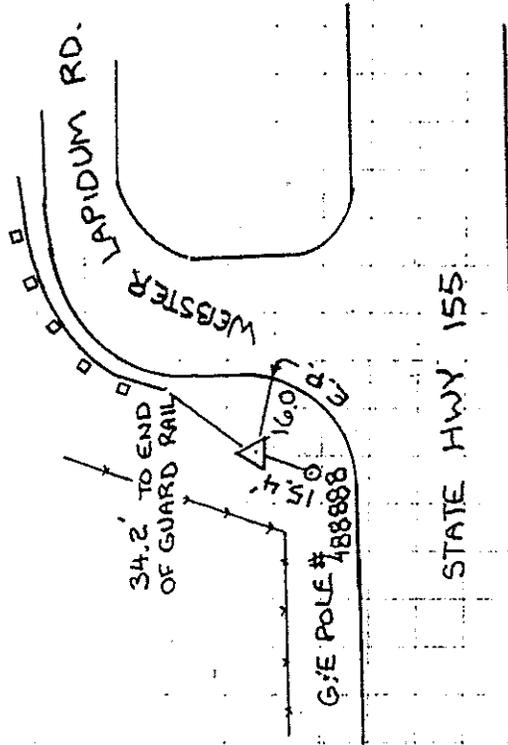
**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
 NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 34 21.33156	NORTH(sf)	695207.592
LONGITUDE	076 10 08.08055	EAST(sf)	1546621.166
GRID AZ.	074 16 50.7	ELEV. LEVEL OBS.	416.86 ft

25
WEISSTER
1989



AZIMUTH MARK



STATION

RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning
Global Positioning System • Mapping

