

1 National Geodetic Survey, Retrieval Date = July 26, 2007  
 JV4868 \*\*\*\*\*

**P9080**

JV4868 DESIGNATION - LOCUST 3  
 JV4868 PID - JV4868  
 JV4868 STATE/COUNTY- MD/HARFORD  
 JV4868 USGS QUAD - SPESUTIE (1984)  
 JV4868  
 JV4868 \*CURRENT SURVEY CONTROL  
 JV4868  
 JV4868\* NAD 83(1991)- 39 28 30.01073(N) 076 04 21.46204(W) ADJUSTED  
 JV4868\* NAVD 88 - 4.5 (meters) 15. (feet) VERTCON  
 JV4868  
 JV4868 X - 1,186,597.982 (meters) COMP  
 JV4868 Y - -4,785,016.121 (meters) COMP  
 JV4868 Z - 4,033,143.500 (meters) COMP  
 JV4868 LAPLACE CORR- -1.63 (seconds) DEFLEC99  
 JV4868 ELLIP HEIGHT- -28.554 (meters) (09/18/02) GPS OBS  
 JV4868 GEOID HEIGHT- -33.26 (meters) GEOID03  
 JV4868  
 JV4868 HORZ ORDER - FIRST  
 JV4868 ELLP ORDER - FOURTH CLASS II  
 JV4868

JV4868.The horizontal coordinates were established by classical geodetic methods  
 and adjusted by the National Geodetic Survey in January 1992.  
 JV4868  
 JV4868.The NAVD 88 height was computed by applying the VERTCON shift value to  
 the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
 JV4868  
 JV4868.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 JV4868  
 JV4868.The Laplace correction was computed from DEFLEC99 derived deflections.  
 JV4868  
 JV4868.The ellipsoidal height was determined by GPS observations  
 and is referenced to NAD 83.  
 JV4868  
 JV4868.The geoid height was determined by GEOID03.  
 JV4868

		North	East	Units	Scale	Factor	Converg.
JV4868;SPC MD	-	201,144.907	479,793.956	MT	1.00000447		+0 34 55.4
JV4868;SPC MD	-	659,922.92	1,574,124.00	sFT	1.00000447		+0 34 55.4
JV4868;UTM 18	-	4,370,039.373	407,742.401	MT	0.99970479		-0 40 55.1
JV4868!	-	Elev Factor	x Scale Factor	=	Combined Factor		
JV4868!SPC MD	-	1.00000448	x 1.00000447	=	1.00000895		
JV4868!UTM 18	-	1.00000448	x 0.99970479	=	0.99970927		
JV4868:		Primary Azimuth Mark				Grid Az	
JV4868:SPC MD	-	PERRY POINT VET HOSP NW TANK				001 42 16.1	
JV4868:UTM 18	-	PERRY POINT VET HOSP NW TANK				002 58 06.6	

JV4868	PID	Reference Object	Distance	Geod. Az
JV4868				dddmss.s
JV4868	JV4787	PERRY POINT VET HOSP NW TANK	APPROX. 8.9 KM	0021711.5
JV4868	JV4777	PERRY POINT VET HOSP SW STACK	APPROX. 8.5 KM	0031441.3

JV4868	JV4778	PERRY POINT VET HOSP NE STACK	APPROX. 8.5 KM	0032031.2
JV4868	JV4779	PERRY POINT VET HOSP SE TANK	APPROX. 8.6 KM	0072046.7
JV4868	JU3954	NORTH EAST MICROWAVE TOWER	APPROX.15.6 KM	0515508.5
JV4868	CB1928	16.504		1401329.3
JV4868	CA9614	LOCUST 3 RM 1		1420346.2
JV4868	JV4862	SCHMID	373.136 METERS	15133
JV4868	CA9617	LOCUST 3 RM 4	29.712 METERS	16901
JV4868	CA9615	LOCUST 3 RM 2	25.725 METERS	24721
JV4868	CA9619	LOCUST 3 RM 6		25626
JV4868	CA9618	LOCUST 3 RM 5	24.635 METERS	27209
JV4868	JV4946	ABERDEEN PROVING GROUNDS TANK	APPROX. 5.1 KM	2811706.3
JV4868	JV4943	SWAN MEADOW WATER TANK	APPROX. 8.0 KM	2895728.3
JV4868	CA9616	LOCUST 3 RM 3	21.748 METERS	31100
JV4868	JV4864	FISHING BATTERY LIGHTHOUSE	APPROX. 2.4 KM	3365647.4
JV4868	JV4782	HAVRE DE GRACE RADIO WASA MAST	APPROX.10.8 KM	3383235.8
JV4868	JV4793	HAVRE DE GRACE LIGHTHOUSE	APPROX. 7.4 KM	3515134.8

JV4868

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SUPERSEDED SURVEY CONTROL

JV4868

JV4868	ELLIP H (01/27/92)	-28.569 (m)	GP( )	4 1
JV4868	NAD 83(1986)-	39 28 30.00227(N)	076 04 21.46690(W)	AD( ) 1
JV4868	NAD 27	- 39 28 29.60740(N)	076 04 22.65680(W)	AD( ) 1
JV4868	NGVD 29 (07/19/86)	4.7 (m)	15. (f)	VERT ANG

JV4868

JV4868.Superseded values are not recommended for survey control.  
 JV4868.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 JV4868.[See file dsdata.txt](#) to determine how the superseded data were derived.

JV4868

JV4868\_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SVJ0774270039(NAD 83)  
 JV4868\_MARKER: DS = TRIANGULATION STATION DISK  
 JV4868\_SETTING: 4 = OBJECT SURROUNDED BY MASS OF CONCRETE  
 JV4868\_SP\_SET: IN CONCRETE IN A CLAY TILE PIPE  
 JV4868\_STAMPING: LOCUST 3 1933  
 JV4868\_MARK LOGO: CGS  
 JV4868\_MAGNETIC: N = NO MAGNETIC MATERIAL  
 JV4868\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY  
 JV4868\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 JV4868+SATELLITE: SATELLITE OBSERVATIONS - October 01, 1989

JV4868

HISTORY	- Date	Condition	Report By
JV4868	- 1933	MONUMENTED	CGS
JV4868	- 1933	GOOD	CGS
JV4868	- 1958	GOOD	CGS
JV4868	- 1962	GOOD	CGS
JV4868	- 1974	GOOD	NGS
JV4868	- 1978	GOOD	AIRSUR
JV4868	- 19891001	GOOD	RDA

JV4868

JV4868

STATION DESCRIPTION

JV4868

JV4868'DESCRIBED BY COAST AND GEODETIC SURVEY 1933 (RDH)  
 JV4868'THE STATION IS ON THE NE CORNER OF SPESUTIE ISLAND, WHICH IS  
 JV4868'ACROSS SPESUTIE NARROWS FROM THE ABERDEEN PROVING GROUNDS, ABOUT  
 JV4868'4 MILES S OF HAVRE DE GRACE, AND ABOUT 8 MILES SE OF  
 JV4868'ABERDEEN. THE STATION IS ON LOCUST POINT IN A GROVE OF LOCUST  
 JV4868'TREES, ABOUT 8 YARDS SSW OF HIGH-WATER MARK, 20 YARDS SE OF SE



JV4868'1933.

JV4868'

JV4868'REFERENCE MARK NO. 4 IS 17-1/2 FEET SOUTHWEST OF A CONCRETE  
JV4868'PILLAR, 8-1/2 FEET EAST OF APPROXIMATE CENTERLINE OF DRIVEWAY  
JV4868'AND 30 FEET EAST OF A SMALL POLE WITH A SWITCH BOX AND  
JV4868'TELEPHONE. THE MARK IS A STANDARD REFERENCE MARK DISK SET IN A  
JV4868'DRILLHOLE IN CONCRETE DRIVEWAY AND THE DISK IS STAMPED LOCUST 3  
JV4868'NO 4 1933.

JV4868'

JV4868'REFERENCE MARK NO. 5 IS 7 FEET EAST OF EAST EDGE OF THICKET AND  
JV4868'73-1/2 FEET SOUTH-SOUTHWEST OF SOUTH BANK OF CHESAPEAKE  
JV4868'BAY. THE MARK IS A STANDARD REFERENCE MARK DISK SET IN A 12X12  
JV4868'INCH CONCRETE MONUMENT, PROJECTS 4 INCHES AND THE DISK IS STAMPED  
JV4868'LOCUST 3 NO 5 1933.

JV4868'

JV4868'(USED)(AZIMUTH MARK) IS 25-1/2 FEET NORTH OF A POWERLINE POLE,  
JV4868'ABOUT 50 YARDS NORTH OF A GREY CONCRETE BLOCK BUILDING. THE MARK  
JV4868'IS A U.S. ENGINEER DEPARTMENT DISK SET FLUSH IN A DRILLHOLE IN A  
JV4868'CONCRETE PAD AND THE DISK IS STAMPED 16.504.

JV4868'

JV4868'TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 40 AND STATE  
JV4868'HIGHWAY NO. 22 IN ABERDEEN, GO SOUTHERLY ON STATE HIGHWAY NO. 22  
JV4868'FOR 0.1 MILE TO PROVING GROUNDS ROAD. TURN RIGHT AND GO WESTERLY  
JV4868'THENCE SOUTHERLY ON PROVING GROUNDS ROAD FOR 1.0 MILE TO GUARD  
JV4868'GATE. PASS THROUGH GATE AND CONTINUE SOUTHERLY ON SURFACED ROAD  
JV4868'FOR 2.7 MILES TO FORKS. TAKE LEFT FORK AND GO EASTERLY FOR 0.4  
JV4868'MILE TO HEADQUARTERS BUILDING. CONTINUE EASTERLY FOR 0.1 MILE  
JV4868'TO CROSSROADS. TURN LEFT AND GO NORTHERLY FOR 0.05 MILE TO  
JV4868'SIGN SPESUTIE ISLAND AT T ROAD RIGHT. TURN RIGHT AND GO 0.05  
JV4868'MILE. TURN LEFT AND GO NORTHERLY FOR 0.3 MILE TO T  
JV4868'INTERSECTION. TURN RIGHT AND GO 1.05 MILES TO GUARD  
JV4868'GATE NO. 1. PASS THROUGH GATE AND CONTINUE EASTERLY ON  
JV4868'BAY ROAD FOR 0.95 MILE TO FORKS. TAKE LEFT FORK AND GO 0.05  
JV4868'MILE TO SMALL MOUND WITH SMALL GREY BUILDING ON TOP OF MOUND  
JV4868'AND STATION AS DESCRIBED.

JV4868'

JV4868'TO REACH AZIMUTH MARK FROM STATION, GO SOUTHEASTERLY ON  
JV4868'SURFACED ROAD FOR 0.15 MILE TO POWERLINE POLE ON LEFT AND  
JV4868'AZIMUTH MARK AS DESCRIBED.

JV4868

JV4868

STATION RECOVERY (1962)

JV4868

JV4868'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1962 (RWT)  
JV4868'THE STATION MARK, AZIMUTH MARK AND REFERENCE MARK NUMBER 4 WAS  
JV4868'RECOVERED AS DESCRIBED IN 1958 AND IN GOOD CONDITION. REFERENCE  
JV4868'MARK NUMBER 5 WAS SEARCHED FOR BUT NOT RECOVERED. REFERENCE MARK  
JV4868'NUMBER 6 WAS ESTABLISHED. IT IS A STANDARD DISK STAMPED LOCUST  
JV4868'3 NO 6 1962, SET IN TOP OF A SQUARE CONCRETE MONUMENT WHICH  
JV4868'PROJECTS ABOUT 3 INCHES ABOVE THE GROUND SURFACE AND DESCRIBED  
JV4868'BY . IT IS 2.1 FEET NORTH OF THE NORTH EDGE OF AN  
JV4868'OBSERVATORY BUILDING AND 57.7 FEET WEST-SOUTHWEST OF A  
JV4868'STANDARD METAL WITNESS POST AND MARKER.

JV4868'

JV4868'THE DESCRIPTION WAS ADEQUATE.

JV4868'

JV4868'HEIGHT OF LIGHT ABOVE STATION MARK 1 METER.

JV4868

JV4868 STATION RECOVERY (1974)

JV4868

JV4868 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1974 (RDB)

JV4868 'THE STATION MARK, REFERENCE MARKS NUMBER 4 AND NUMBER 6 WERE  
JV4868 'RECOVERED AS DESCRIBED BY JCE IN 1958 AND RWT IN 1962. DISTANCES  
JV4868 'FROM THE STATION TO THE REFERENCE MARKS WERE VERIFIED. THE WITNESS  
JV4868 'POST MENTIONED IN THE 1958 AND 1962 DESCRIPTION IS GONE, BUT A  
JV4868 'BLACK AND WHITE POST IS NOW LOCATED 2.5 FEET SOUTH OF THE STATION  
JV4868 'MARK. THE STATION MARK IS ABOUT 58 FT NORTHEAST OF THE CENTER  
JV4868 'OF A WHITE BUILDING WITH A DOME ON TOP. THE AZIMUTH MARK  
JV4868 '(USED 1958) WAS SEARCHED FOR BRIEFLY BUT NOT FOUND.

JV4868 '

JV4868 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN

JV4868 'AT SPESUTIE ISLAND OF ABERDEEN PROVING GROUND.

JV4868

JV4868 STATION RECOVERY (1978)

JV4868

JV4868 'RECOVERY NOTE BY AIR SURVEY CORPORATION 1978 (EW)

JV4868 'LOCUST 3, 1933 RECOVERED GOOD.

JV4868 '

JV4868 'LOCUST 3, RM 4, 1933 RECOVERED GOOD.

JV4868 '

JV4868 'DISTANCE AND DIRECTION FROM NEAREST TOWN--ABERDEEN PROVING

JV4868 'GROUNDS.

JV4868

JV4868 STATION RECOVERY (1989)

JV4868

JV4868 'RECOVERY NOTE BY RINKER DETWILER AND ASSOCIATES 1989

JV4868 'THE STATION IS LOCATED IN SOUTHEASTERN HARFORD COUNTY, MARYLAND ON THE

JV4868 'PROPERTY OF THE ABERDEEN PROVING GROUNDS ABOUT 4.0 MILES SOUTH OF

JV4868 'HAVRE DE GRACE ON LOCUST POINT ON THE CHESAPEAKE BAY.

JV4868 'THE STATION MARK AND RM 6 WERE RECOVERED IN GOOD CONDITION.

JV4868 'TO REACH THE STATION FROM THE INTERSECTION OF HIGHWAY 40 AND HIGHWAY

JV4868 '715, MARYLAND BOULEVARD IN ABERDEEN PROCEED SOUTHEAST ALONG HIGHWAY

JV4868 '715, MARYLAND BOULEVARD 2.4 MILES TO ITS INTERSECTION WITH ABERDEEN

JV4868 'BOULEVARD, PROVING GROUND ROAD. TURN RIGHT AND PROCEED SOUTHEAST

JV4868 'ALONG PROVING GROUND ROAD 1.1 MILE TO ITS INTERSECTION WITH LONGS

JV4868 'CORNER ROAD. TURN LEFT AND PROCEED SOUTHEAST ALONG LONGS CORNER ROAD

JV4868 '0.05 MILES TO ITS INTERSECTION WITH HOPKINS ROAD. TURN RIGHT AND

JV4868 'PROCEED SOUTHEAST ALONG HOPKINS ROAD 0.4 MILES TO ITS INTERSECTION

JV4868 'WITH SPESUTIE ISLAND ROAD. TURN RIGHT AND PROCEED SOUTHEAST ALONG

JV4868 'SPESUTIE ISLAND ROAD 0.85 MILES TO THE GUARD GATE. THIS IS A SECURITY

JV4868 'GATE AND FROM HERE YOU NEED A SECURITY PASS OR CLEARANCE OR HAVE

JV4868 'SOMEONE WITH SECURITY CLEARANCE FROM THE BASE. GO THRU THE GUARD GATE

JV4868 'AND PROCEED 1.15 MILES ON SPESUTIE ISLAND ROAD AND THE STATION ON THE

JV4868 'LEFT.

JV4868 'THE STATION IS A STANDARD U.S. COAST AND GEODETIC SURVEY TRAVERSE DISK

JV4868 'SET IN A CONCRETE CYLINDER ABOUT 8 INCHES ABOVE GROUND STAMPED LUCUST

JV4868 '3 1933. THE STATION IS 58.0 FEET NORTHEAST OF THE CENTERLINE OF AN

JV4868 'OLD OBSERVATORY DOME BUILDING, 56.16 FEET NORTHEAST FROM REFERENCE

JV4868 'MARK NUMBER 6, 18.0 FEET SOUTHEAST OF THE TOP OF THE BANK OF

JV4868 'CHESAPEAKE BAY.

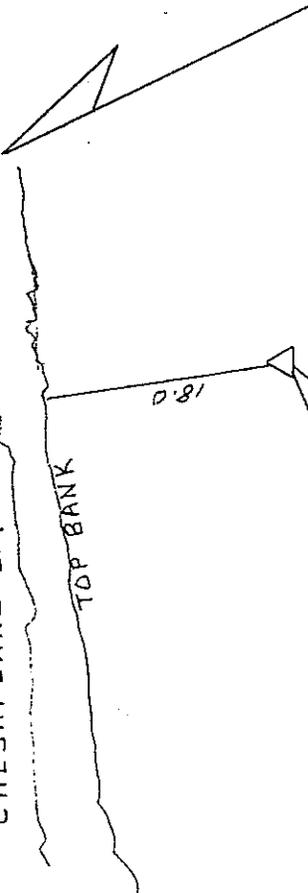
**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK  
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 28 30.00228	NORTH(sf)	659922.057
LONGITUDE	076 04 21.46691	EAST(sf)	1574123.631
GRID AZ.	NONE	ELEV.	NONE

908 LOCUST 3 1933

CHESAPEAKE BAY

TOP BANK

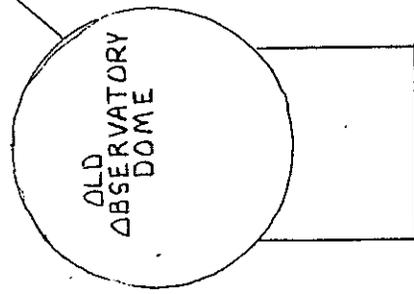


18.0'

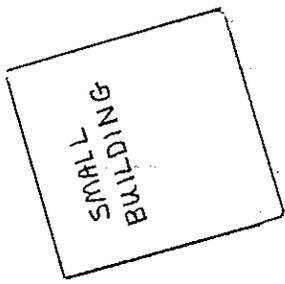
57.16'

RM #6

58.0'



OLD  
OBSERVATORY  
DOME



SMALL  
BUILDING

SPELUTIE ROAD

EAST BOUND LANE



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning  
Global Positioning System • Mapping