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

JV0128 **********

JV0128 DESIGNATION - SWAN **P9130**

JV0128 PID - JV0128

JV0128 STATE/COUNTY- MD/HARFORD

JV0128 USGS QUAD - ABERDEEN (1985)

JV0128

JV0128 *CURRENT SURVEY CONTROL

JV0128 ---

JV0128* NAD 83(1991)- 39 32 54.49529(N) 076 10 06.43452(W) ADJUSTED

JV0128* NAVD 88 - 81.155 (meters) 266.26 (feet) ADJUSTED

JV0128 ---

JV0128 X - 1,177,366.983 (meters) COMP

JV0128 Y - -4,782,012.292 (meters) COMP

JV0128 Z - 4,039,485.252 (meters) COMP

JV0128 LAPLACE CORR- -2.43 (seconds) DEFLEC99

JV0128 ELLIP HEIGHT- 48.179 (meters) (09/18/02) GPS OBS

JV0128 GEOID HEIGHT- -32.98 (meters) GEOID03

JV0128 DYNAMIC HT - 81.114 (meters) 266.12 (feet) COMP

JV0128 MODELED GRAV- 980,130.4 (mgal) NAVD 88

JV0128

JV0128 HORZ ORDER - SECOND

JV0128 VERT ORDER - SECOND CLASS 0

JV0128 ELLP ORDER - FOURTH CLASS II

JV0128

JV0128.The horizontal coordinates were established by classical geodetic methods

JV0128.and adjusted by the National Geodetic Survey in January 1992.

JV0128

JV0128.The orthometric height was determined by differential leveling

JV0128.and adjusted by the NATIONAL GEODETIC SURVEY in June 1991.

JV0128

JV0128.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV0128

JV0128.The Laplace correction was computed from DEFLEC99 derived deflections.

JV0128

JV0128.The ellipsoidal height was determined by GPS observations

JV0128.and is referenced to NAD 83.

JV0128

JV0128.The geoid height was determined by GEOID03.

JV0128

JV0128.The dynamic height is computed by dividing the NAVD 88

JV0128.geopotential number by the normal gravity value computed on the

JV0128.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

JV0128.degrees latitude (g = 980.6199 gals.).

JV0128

JV0128.The modeled gravity was interpolated from observed gravity values.

JV0128

JV0128;	North	East	Units	Scale Factor	Converg.
JV0128;SPC MD -	209,222.026	471,474.755	MT	1.00001871	+0 31 18.9
JV0128;SPC MD -	686,422.60	1,546,830.09	sFT	1.00001871	+0 31 18.9
JV0128;UTM 18 -	4,378,295.725	399,605.958	MT	0.99972409	-0 44 38.6

JV0128

JV0128!	Elev Factor	x	Scale Factor	=	Combined Factor
JV0128!SPC MD -	0.99999244	x	1.00001871	=	1.00001115
JV0128!UTM 18 -	0.99999244	x	0.99972409	=	0.99971653

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JV0128
JV0128:                Primary Azimuth Mark                     Grid Az
JV0128:SPC MD       -  SWAN RM 3                                154 10 26.2
JV0128:UTM  18      -  SWAN RM 3                                155 26 23.7
JV0128
JV0128|---------------------------------------------------------------------|
JV0128| PID    Reference Object                    Distance      Geod. Az  |
JV0128|                                                          dddmmss.s |
JV0128| JV0127 SWAN RM 3                                         1544145.1 |
JV0128| JV0126 SWAN AZ MK                        380.106 METERS 15737     |
JV0128| JV0129 SWAN RM 1                          22.820 METERS 16046     |
JV0128| JV0130 SWAN RM 2                          27.111 METERS 26351     |
JV0128| JV4801 CHAPEL HILL RESERVOIR TANK         APPROX. 1.3 KM 3465018.1 |
JV0128|---------------------------------------------------------------------|
JV0128
JV0128                          SUPERSEDED SURVEY CONTROL
JV0128
JV0128  ELLIP H (01/27/92)   48.170  (m)                       GP(       ) 4 1
JV0128  NAD 83(1986)-  39 32 54.49038(N)    076 10 06.43919(W) AD(       ) 2
JV0128  NAD 27      -  39 32 54.09910(N)    076 10 07.61240(W) AD(       ) 2
JV0128  NGVD 29 (??/??/??)   81.417  (m)          267.12   (f) ADJUSTED    2 0
JV0128
JV0128.Superseded values are not recommended for survey control.
JV0128.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV0128.See file dsdata.txt to determine how the superseded data were derived.
JV0128
JV0128_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9960678296(NAD 83)
JV0128_MARKER: DS = TRIANGULATION STATION DISK
JV0128_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV0128_SP_SET: CONCRETE POST
JV0128_STAMPING: SWAN 1958
JV0128_MARK LOGO: CGS
JV0128_MAGNETIC: N = NO MAGNETIC MATERIAL
JV0128_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV0128+STABILITY: SURFACE MOTION
JV0128_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV0128+SATELLITE: SATELLITE OBSERVATIONS - October 01, 1989
JV0128
JV0128  HISTORY     - Date     Condition        Report By
JV0128  HISTORY     - 1958     MONUMENTED       CGS
JV0128  HISTORY     - 1959     GOOD             CGS
JV0128  HISTORY     - 1973     GOOD             NGS
JV0128  HISTORY     - 1973     GOOD             NGS
JV0128  HISTORY     - 19891001 GOOD             RDA
JV0128  HISTORY     - 19970418 GOOD             DMW
JV0128
JV0128                          STATION DESCRIPTION
JV0128
JV0128'DESCRIBED BY COAST AND GEODETIC SURVEY 1958 (JCE)
JV0128'THE STATION IS ABOUT 3-1/2 MILES WEST OF HAVRE DE GRACE, ABOUT
JV0128'2-1/2 MILES NORTH OF ABERDEEN, 0.05 MILE WEST OF STATE HIGHWAY 462
JV0128'AND IS IN THE APPROXIMATE CENTER OF A CIRCLE DRIVEWAY.  IT IS
JV0128'21 FEET NORTH OF DRIVEWAY, 20 FEET SOUTH OF DRIVEWAY AND 61-1/2
JV0128'FEET NORTHEAST OF THE NORTHEAST CORNER OF BARN.  THE MARK IS A
JV0128'STANDARD TRIANGULATION MARK DISK SET IN A 12X12 INCH CONCRETE
JV0128'POST WHICH IS SET FLUSH AND THE DISK IS STAMPED SWAN 1958.
JV0128'
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JV0128'REFERENCE MARK NO. 1 IS 37 FEET SOUTHEAST OF THE NORTHEAST
JV0128'CORNER OF BARN, 14 FEET NORTH OF THE NORTHEAST CORNER OF CINDER
JV0128'BLOCK MILK HOUSE AND 1/2 FOOT WEST OF BOARD FENCE. THE MARK IS
JV0128'STANDARD REFERENCE MARK DISK SET IN A 12X12 INCH CONCRETE POST
JV0128'WHICH IS SET FLUSH AND THE DISK IS STAMPED SWAN NO 1 1958.
JV0128'
JV0128'REFERENCE MARK NO. 2 IS 49-1/2 FEET NORTH OF THE CENTER OF
JV0128'WOODEN GATE AND FIELD DRIVE, 40 FEET WEST OF DRIVEWAY, 13 FEET
JV0128'SOUTH OF OLD CAR PORT AND 1/2 FOOT EAST OF BOARD FENCE. THE MARK
JV0128'IS A STANDARD REFERENCE MARK DISK SET IN A 12X12 INCH CONCRETE
JV0128'POST WHICH IS SET FLUSH AND THE DISK IS STAMPED SWAN NO 2 1958.
JV0128'
JV0128'AZIMUTH MARK IS 28-1/2 FEET NORTHWEST OF CENTER OF ROAD, 16 FEET
JV0128'NORTH OF FENCE LINE 10-1/2 FEET WEST OF POWER POLE NO. 6, 3 FEET
JV0128'NORTHWEST OF FENCE LINE AND 3 FEET NORTH-NORTHWEST OF WITNESS
JV0128'POST. THE MARK IS A STANDARD AZIMUTH MARK DISK SET IN A 12X12
JV0128'INCH CONCRETE POST WHICH IS SET FLUSH AND THE DISK IS STAMPED
JV0128'SWAN 1958.
JV0128'
JV0128'TO REACH THE STATION FROM THE POST OFFICE IN ABERDEEN, GO
JV0128'NORTHWEST ON STATE HIGHWAY 22 FOR 0.55 MILE TO THE JUNCTION OF
JV0128'STATE HIGHWAY 462, TURN RIGHT AND FOLLOW STATE HIGHWAY 462
JV0128'NORTHERLY FOR 2.25 MILES TO THE AZIMUTH MARK ON TOP OF HIGH
JV0128'EMBANKMENT ON LEFT AS DESCRIBED. CONTINUE NORTH ON STATE HIGHWAY
JV0128'462 FOR 0.25 MILE TO GRAVEL DRIVEWAY LEFT, TURN LEFT AND GO WEST
JV0128'FOR 0.05 MILE TO THE STATION IN CENTER OF A CIRCLE DRIVEWAY AS
JV0128'DESCRIBED.
JV0128'
JV0128'HEIGHT OF LIGHT ABOVE STATION MARK 30 METERS.
JV0128
JV0128   STATION RECOVERY (1959)
JV0128
JV0128'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959
JV0128'3.1 MI NE FROM ABERDEEN.
JV0128'ABOUT 0.6 MILE NORTHWEST ALONG STATE HIGHWAY 22 FROM THE POST
JV0128'OFFICE AT ABERDEEN, THENCE 2.5 MILES NORTHWEST ALONG STATE
JV0128'HIGHWAY 462, ABOUT 100 YARDS WEST OF THE HIGHWAY, NEAR A LARGE
JV0128'FARM HOUSE, NEAR THE APPROXIMATE CENTER OF A CIRCLE DRIVEWAY,
JV0128'61 FEET NORTHEAST OF THE NORTHEAST CORNER OF A LARGE DAIRY BARN,
JV0128'21 FEET NORTH OF THE CENTER LINE OF A DRIVEWAY, SET IN THE TOP
JV0128'OF A CONCRETE POST FLUSH WITH THE GROUND.
JV0128
JV0128   STATION RECOVERY (1973)
JV0128
JV0128'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (LFS)
JV0128'THE STATION AND ALL MARKS WERE RECOVERED AND FOUND IN GOOD
JV0128'CONDITION. THE DIRECTION TO ALL MARKS WERE WITHIN CLOSE AGREEMENT
JV0128'WITH THE 1958 OBSERVATIONS. THE DISTANCES STATED IN THE 1958
JV0128'DESCRIPTION APPEARED TO BE SLOPE DISTANCES THEREFOR A SHORTED
JV0128'DISTANCE TO BOTH MARKS WERE NOTED. THE AZIMUTH MARK WHICH WAS
JV0128'SET IN 1958 IS IN THE AREA OF CONSTRUCTION AND WILL BE DESTROYED
JV0128'1 JULY 1973. A NEW RM 3 (AZ MK) WAS ESTABLISHED AT THIS DATE.
JV0128'
JV0128'THE STATION IS LOCATED 3-1/2 MILES WEST OF HAVRE DE GRACE, 2
JV0128'1/2 MILES NORTH OF ABERDEEN, AND ABOUT 0.15 MILE NORTH OF
JV0128'INTERSTATE HIGHWAY 95. THE PROPERTY OWNERS NAME WAS NOT OBTAINED
JV0128'AT THIS TIME.

JV0128'
JV0128'TO REACH THE STATION FROM THE POST OFFICE IN ABERDEEN, GO WEST ON
JV0128'STATE HIGHWAY 132 FOR 0.55 MILE TO A CROSSROAD. TURN RIGHT AND
JV0128'GO NORTH ON STATE HIGHWAY 462 FOR 2.3 MILES TO A OVERPASS BRIDGE
JV0128'AT INTERSTATE HIGHWAY 95 AND THE AZIMUTH MARK IN THE SOUTHWEST
JV0128'ABUTMENT OF THE BRIDGE. CONTINUE NORTHERLY ON STATE HIGHWAY 462
JV0128'FOR 0.1 MILE TO A FARM ROAD ON THE LEFT. TURN LEFT AND GO
JV0128'WESTERLY ON A PAVED ROAD FOR 0.1 MILE TO A SMALL ISLAND BETWEEN
JV0128'THE ROADS AND THE STATION IN THE CENTER OF THE ISLAND.
JV0128'
JV0128'THE STATION MARK IS A STANDARD DISK STAMPED SWAN 1958, SET IN
JV0128'THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH IS FLUSH
JV0128'WITH THE SURFACE. IT IS 89 FEET NORTH OF THE NORTHEAST CORNER OF
JV0128'A MILK HOUSE, 62 FEET NORTHEAST OF THE NORTHEAST CORNER OF A BARN,
JV0128'51 FEET NORTH OF A WITNESS POST AND 20 FEET NORTH OF THE CENTER
JV0128'OF THE PAVED ROAD.
JV0128'
JV0128'REFERENCE MARK ONE IS A STANDARD DISK STAMPED SWAN NO 1 1958, SET
JV0128'IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH IS 1-INCH
JV0128'BELOW THE SURFACE. IT IS 37 FEET SOUTHEAST OF THE NORTHWEST CORNER
JV0128'OF THE BARN, 14 FEET NORTH OF THE NORTHEAST CORNER OF THE MILK
JV0128'HOUSE AND 0.5 FOOT WEST OF A BOARD FENCE.
JV0128'
JV0128'REFERENCE MARK TWO IS A STANDARD DISK STAMPED SWAN NO 2 1958, SET
JV0128'IN THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH IS 1-INCH
JV0128'BELOW THE SURFACE. IT IS 50 FEET NORTH OF THE CENTER OF A BOARD
JV0128'GATE, 13 FEET SOUTH OF A OLD CAR PORT ON THE SOUTH SIDE OF A FARM
JV0128'SHED AND 0.5 FEET EAST OF A BOARD FENCE.
JV0128'
JV0128'REFERENCE MARK THREE (AZ MK) IS A STANDARD DISK STAMPED SWAN 1958
JV0128'NO 3 1973, CEMENTED IN A DRILL HOLE IN THE SOUTHWEST ABUTMENT OF THE
JV0128'OVERPASS BRIDGE AT THE INTERSECTION OF INTERSTATE HIGHWAY 95 AND
JV0128'STATE HIGHWAY 462.
JV0128'
JV0128'REFERENCE MARK THREE (AZ MK) IS 75 FEET SOUTH OF THE CENTER OF
JV0128'INTERSTATE HIGHWAY 95, 31 FEET SOUTH OF THE EAST BOUND LANE OF
JV0128'INTERSTATE HIGHWAY 95 AND 16 FEET WEST OF A DRAINAGE GRATE. IT IS
JV0128'ABOUT 4 FEET HIGHER THAN THE HIGHWAY AND JUST WEST OF THE
JV0128'EXPANSION JOINT ON THE SOUTHWEST EDGE.
JV0128'
JV0128'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
JV0128'2-1/2 MILES NORTH OF ABERDEEN.
JV0128
JV0128   STATION RECOVERY (1973)
JV0128
JV0128'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973
JV0128'RECOVERED IN GOOD CONDITION.
JV0128
JV0128   STATION RECOVERY (1989)
JV0128
JV0128'RECOVERY NOTE BY RINKER DETWILER AND ASSOCIATES 1989
JV0128'THE STATION IS LOCATED IN EASTERN HARFORD COUNTY, MARYLAND ABOUT 2
JV0128'MILES NORTH OF THE VILLAGE OF ABERDEEN.
JV0128'THE STATION AND RM 1 WERE RECOVERED IN GOOD CONDITION. RM 2 WAS NOT
JV0128'RECOVED BUT PROBABLY EXISTS UNDER A DEBRIS PILE. THE AZIMUTH MARK WAS
JV0128'NOT RECOVERED AND A NEW ONE WAS ESTABLISHED AT THIS TIME.THE PREVIOUS
JV0128'DESCRIPTION IS ADEQUATE. ADDITIONAL INFORMATION AS FOLLOWS.

JV0128'TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 22 AND
JV0128'STATE HIGHWAY 462, PARADISE ROAD IN ABERDEEN PROCEED NORTH ALONG
JV0128'HIGHWAY 462 2.5 MILES TO ITS INTERSECTION WITH A PRIVATE DRIVE P.O.
JV0128'BOX 116, TURN LEFT AND PROCEED WEST ALONG PRIVATE DRIVE 0.05 MILE TO
JV0128'THE STATION ON THE RIGHT IN THE CENTER OF CIRCLE DRIVE.
JV0128'THE STATION IS A STANDARD U.S. COAST AND GEODETIC SURVEY DISK SET IN
JV0128'CONCRETE ABOUT 1 INCH BELOW GROUND STAMPED SWAN 1958. THE STATION IS
JV0128'25.0 FEET EAST OF A 20 INCH CURLY MAPLE TREE, 20.5 FEET NORTH OF THE
JV0128'CENTERLINE OF GRAVEL FARM ROAD, AND 18.0 FEET SOUTHWEST OF THE
JV0128'CENTERLINE OF CONCRETE PRIVATE DRIVE BOX 116.
JV0128
JV0128   STATION RECOVERY (1997)
JV0128
JV0128'RECOVERY NOTE BY DAFT MCCUNE WALKER INCORPORATED 1997 (GAB)
JV0128'RECOVERED AS DESCRIBED.

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

LATITUDE	039 32 54.48840	NORTH(sf)	686421.897
LONGITUDE	076 10 06.44009	EAST(sf)	1546829.664
GRID AZ.	150 47 02.8	ELEV. GPS OBS.	267.16 ft.

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1        National Geodetic Survey,   Retrieval Date = August 3, 2007
 JV6862 ***********************************************************************
 JV6862  DESIGNATION -  SWAN AZ MK 2
 JV6862  PID         -  JV6862
 JV6862  STATE/COUNTY-  MD/HARFORD
 JV6862  USGS QUAD   -  ABERDEEN (1985)
 JV6862
 JV6862                         *CURRENT SURVEY CONTROL
 JV6862  ______________________________________________________________________
 JV6862* NAD 83(1991)-  39 32 48.04571(N)    076 10 01.68411(W)     ADJUSTED
 JV6862* NAVD 88     -        75.2    (meters)     247.     (feet)  VERTCON
 JV6862  ______________________________________________________________________
 JV6862  X           -   1,177,506.299 (meters)                     COMP
 JV6862  Y           -  -4,782,103.694 (meters)                     COMP
 JV6862  Z           -   4,039,328.082 (meters)                     COMP
 JV6862  LAPLACE CORR-          -2.45  (seconds)                    DEFLEC99
 JV6862  ELLIP HEIGHT-          42.225 (meters)          (09/18/02) GPS OBS
 JV6862  GEOID HEIGHT-         -32.99  (meters)                     GEOID03
 JV6862
 JV6862  HORZ ORDER  -  FIRST
 JV6862  ELLP ORDER  -  FOURTH    CLASS II
 JV6862
 JV6862.The horizontal coordinates were established by GPS observations
 JV6862.and adjusted by the National Geodetic Survey in January 1992.
 JV6862
 JV6862.The NAVD 88 height was computed by applying the VERTCON shift value to
 JV6862.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 JV6862
 JV6862.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 JV6862
 JV6862.The Laplace correction was computed from DEFLEC99 derived deflections.
 JV6862
 JV6862.The ellipsoidal height was determined by GPS observations
 JV6862.and is referenced to NAD 83.
 JV6862
 JV6862.The geoid height was determined by GEOID03.
 JV6862
 JV6862;                    North         East     Units Scale Factor Converg.
 JV6862;SPC MD       -   209,024.156   471,589.988   MT  1.00001834   +0 31 21.8
 JV6862;SPC MD       -   685,773.42  1,547,208.15   sFT  1.00001834   +0 31 21.8
 JV6862;UTM  18      - 4,378,095.417   399,716.759   MT  0.99972382   -0 44 35.5
 JV6862
 JV6862!             -  Elev Factor  x  Scale Factor =   Combined Factor
 JV6862!SPC MD       -   0.99999338  x   1.00001834  =   1.00001172
 JV6862!UTM  18      -   0.99999338  x   0.99972382  =   0.99971720
 JV6862
 JV6862                          SUPERSEDED SURVEY CONTROL
 JV6862
 JV6862  ELLIP H (01/27/92)   42.215  (m)                      GP(       ) 4 1
 JV6862  NAD 83(1986)-  39 32 48.04025(N)    076 10 01.68875(W) AD(       ) 1
 JV6862  NGVD 29 (06/18/91)   75.5    (m)          248.     (f) GPS OBS
 JV6862
 JV6862.Superseded values are not recommended for survey control.
 JV6862.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6862.See file dsdata.txt to determine how the superseded data were derived.
 JV6862
 JV6862_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9971778095(NAD 83)
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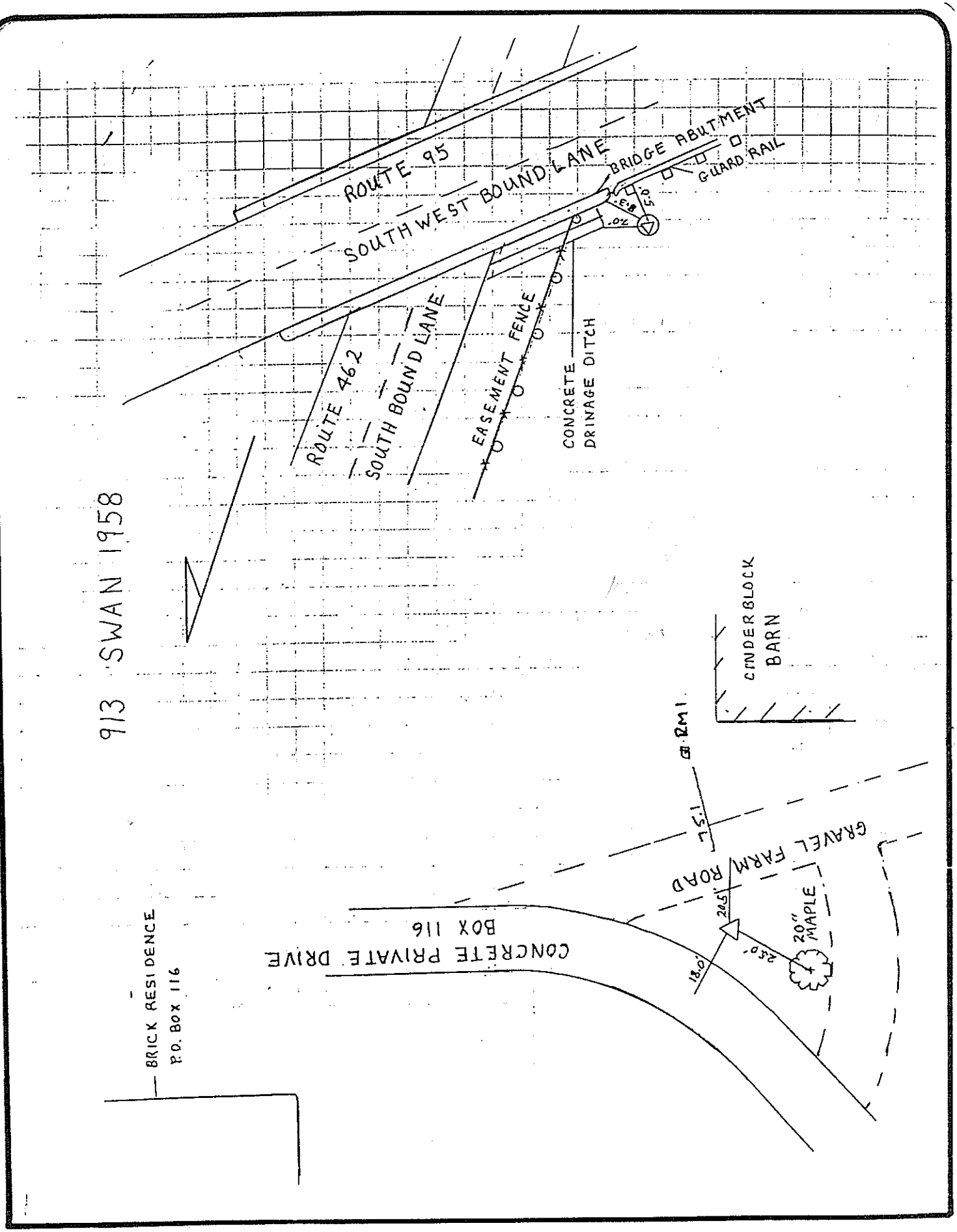
JV6862_MARKER: DZ = AZIMUTH MARK DISK
JV6862_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV6862_SP_SET: CONCRETE POST
JV6862_STAMPING: SWAN 2 1989
JV6862_MARK LOGO: MD-025
JV6862_MAGNETIC: N = NO MAGNETIC MATERIAL
JV6862_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV6862+STABILITY: SURFACE MOTION
JV6862_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV6862+SATELLITE: SATELLITE OBSERVATIONS - 1989
JV6862
JV6862 HISTORY   - Date   Condition   Report By
JV6862 HISTORY   - 1989   MONUMENTED   RDA
JV6862 HISTORY   - 19970418 GOOD   DMW
JV6862
JV6862   STATION DESCRIPTION
JV6862
JV6862'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
JV6862'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED EAST ALONG PRIVATE
JV6862'DRIVE 0.05 MILE TO ITS INTERSECTION WITH HIGHWAY 462, PARADISE ROAD.
JV6862'TURN LEFT AND PROCEED SOUTH ALONG HIGHWAY 462, PARADISE ROAD 0.1 MILE
JV6862'TO THE U.S. HIGHWAY 95 OVERPASS AND THE MARK ON THE RIGHT.
JV6862'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE
JV6862'ABOUT 1 INCH BELOW GROUND STAMPED SWAN 2 1989. THE MARK IS 7.0
JV6862'SOUTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE DRAINAGE DITCH, 8.3
JV6862'FEET WEST OF THE NORTHWEST CORNER OF THE BRIDGE ABUTMENT, 5.0 FEET
JV6862'NORTHWEST OF THE GUARD RAIL, AND 751.24 FEET FROM THE STATION.
JV6862
JV6862   STATION RECOVERY (1997)
JV6862
JV6862'RECOVERY NOTE BY DAFT MCCUNE WALKER INCORPORATED 1997 (GAB)
JV6862'RECOVERED AS DESCRIBED.

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

LATITUDE	039 32 48.03877	NORTH(sf)	685772.713
LONGITUDE	076 10 01.69056	EAST(sf)	1547207.655
GRID AZ.	330 47 02.8	ELEV. GPS OBS.	247.64 ft.



RINKER-DETWILER & ASSOCIATES, P.C.
Engineering • Surveying • Land Planning
Global Positioning System • Mapping