GPS CONTROL POINTS

HVCTRL #1

STANDARD DISC STAMPED

"LONE PINE 1943"

** N = 713794.9995

E = 1469420.1680

ELEV. = 416.1100

GENERAL LOCATION, SOUTH BURLINGTON, VT. OWNERSHIP, LEO OBRIEN, JR., OLD FARM ROAD, SOUTH BURLINGTON, VT. 05403. PHONE 802-864-4677 OR 802-863-2773. TO REACH FROM THE NORTH END OF THE VT ROUTE 116 BRIDGE OVER I-89 GO NORTH ALONG VT ROUTE 116 FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF OLD FARM ROAD RIGHT. TURN RIGHT AND GO NORTH ALONG OLD FARM ROAD FOR 0.5 MI (0.8 KM) TO THE MARK ON THE RIGHT IN AN OLD PASTURE. TO REACH FROM THE INTERSECTION OF U.S. ROUTE 2 (WILLISTON ROAD) AND VT ROUTE 116 IN SOUTH BURLINGTON GO EAST ALONG U.S. ROUTE 2 FOR 0.9 MI (1.4 KM) TO THE INTERSECTION OF KENNEDY DRIVE RIGHT. TURN RIGHT AND GO SOUTH ALONG KENNEDY DRIVE FOR 0.15 MI (0.24 KM) TO THE INTERSECTION OF KIMBALL AVENUE LEFT. TURN LEFT AND GO SOUTHEAST ALONG KIMBALL AVENUE FOR 0.05 MI (0.08 KM) TO THE INTERSECTION OF OLD FARM ROAD RIGHT. TURN RIGHT AND GO SOUTH ALONG OLD FARM ROAD FOR 0.25 MI (0.40 KM) TO THE MARK ON THE LEFT. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A NORTH SOUTH ROCK LEDGE. IT IS 49.4 M (162.1FT) EAST OF AND ABOUT 3 M (9.8 FT) HIGHER THAN THE CENTERLINE OF OLD FARM ROAD, 56.1 M (184.1 FT) SOUTHWEST OF A 30 CM CHERRY, 13.6 M (44.6 FT) NORTHEAST OF A LONE DOUBLE TRUNK APPLE, AND 2.0 M (6.6 FT) NORTHWEST OF A FIBERGLASS WITNESS POST IN A STONE PILE.

HVCTRL #2

STANDARD DISC STAMPED

"EXIT 12-189 1995"

** N = 707578.2862

E = 1479708.0570

ELEV. = 453.9200

GENERAL LOCATION, WILLISTON, VT. AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF I-89 AND VT ROUTE 2A AT EXIT 12. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT. IT IS 22.4 M (73.5 FT) WEST OF AND ABOUT 6 M (19.7 FT) HIGHER THAN THE WEST EDGE OF PAVEMENT OF VT ROUTE 2A, 1.9 M (6.2 FT) NORTH OF THE NORTH EDGE OF PAVEMENT OF I-89 NORTHBOUND, 4.8 M (15.7) WEST OF THE NORTHWEST CORNER OF THE WEST ABUTMENT OF THE I-89 NORTHBOUND BRIDGE OVER VT ROUTE 2A, AND 1.4 M (4.6 FT) SOUTH OF A FIBERGLASS WITNESS POST.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

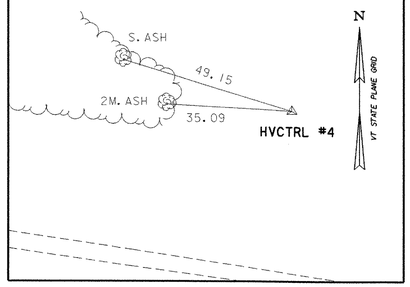
HVCTRL #3

NORTH = 707642.9557
EAST = 1478549.202
ELEV. = 422.9550

NOT TIED

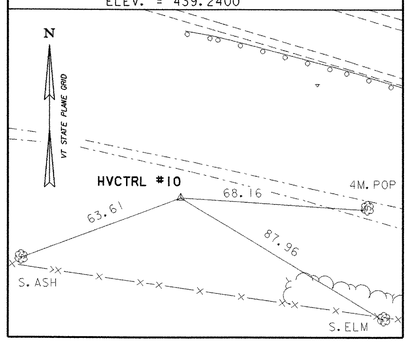
HVCTRL #4

NORTH = 707754.9228
EAST = 1477702.062
ELEV. = 388.5350



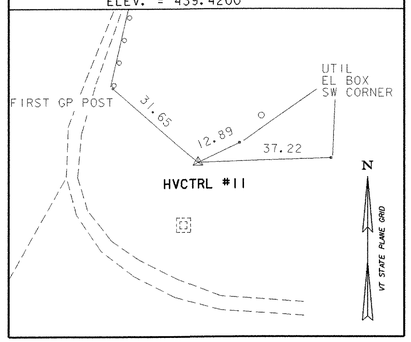
HVCTRL #10

NORTH = 707379.9354
EAST = 1479032.289
ELEV. = 439.2400



HVCTRL #11

NORTH = 707309.2381
EAST = 1479767.685
ELEV. = 439.4200

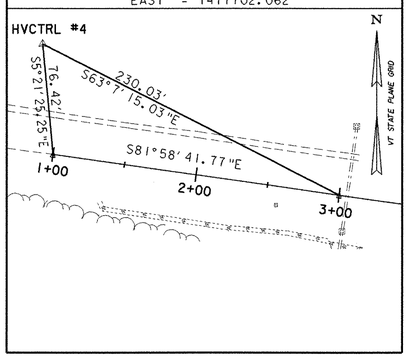


* MAIN TRAVERSE COMPLETED: MAY 5, 2004 BY L.ORVIS PC/ J.HULETT

ALIGNMENT TIES

HVCTRL #4

NORTH = 707754.9228
EAST = 1477702.062

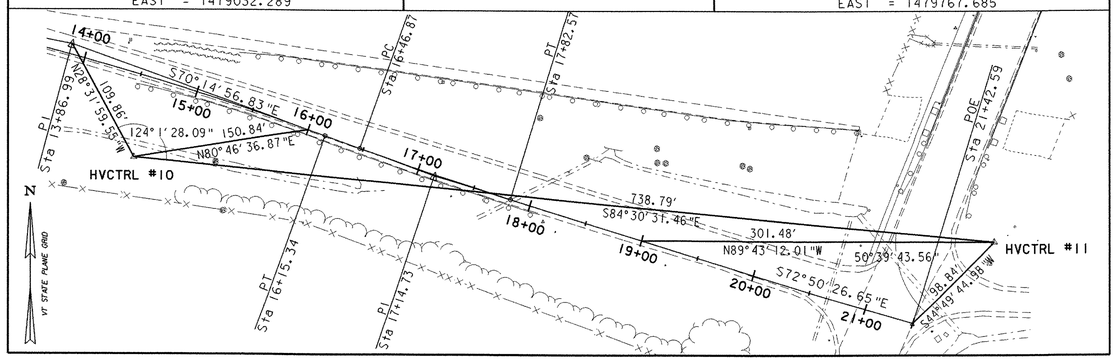


HVCTRL #10

NORTH = 707379.9354
EAST = 1479032.289

HVCTRL #11

NORTH = 707309.2381
EAST = 1479767.685



Type		Station		Northing (Y)	Easting (X)
POB		1+00.00		707678.8336	1477709.1973
		200.0000	S 81°58'41.77" E		
PI		3+00.00		707650.9239	1477907.2403
		580.7494	S 82°03'10.02" E		
PI		8+80.75		707570.6290	1478482.4121
		276.9288	S 79°16'43.87" E		
PC		11+57.68		707519.1122	1478754.5068
	LC= 457.6663		CD= 9°01'47.04"		
	RC= 2904.0000		DC= 1°58'22.78"		
PI		13+86.99		707476.4542	1478979.8120
PT		16+15.34		707398.9639	1479195.6300
		31.5304	S 70°14'56.83" E		
PC		16+46.87		707388.3087	1479225.3055
	LC= 135.6967		CD= 2°35'29.82"		
	RC= -3000.0000		DC= 1°54'35.49"		
PI		17+14.73		707365.3768	1479289.1733
PT		17+82.57		707345.3561	1479354.0127
		360.0167	S 72°50'26.65" E		
POE		21+42.59		707239.1408	1479698.0045

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD-83(96)
ADJUSTMENT COMPASS

PROJECT NAME: I-89 EXIT 12 SB OFF RAMP
PROJECT NUMBER: IM 089-2(35)

FILE NAME: I8800F4TIE.dgn
PROJECT LEADER: EPD
DESIGNED BY: JDA
TIE SHEET

PLOT DATE: 17-MAY-2005
DRAWN BY: JDA / PGJ
CHECKED BY: EPD
SHEET 52 OF 76