

GPS CONTROL POINTS

HVCTRL #1

SUGARBUSH AZ MK
 NORTH = 594971.950
 EAST = 1548979.440
 ELEV. = 812.81

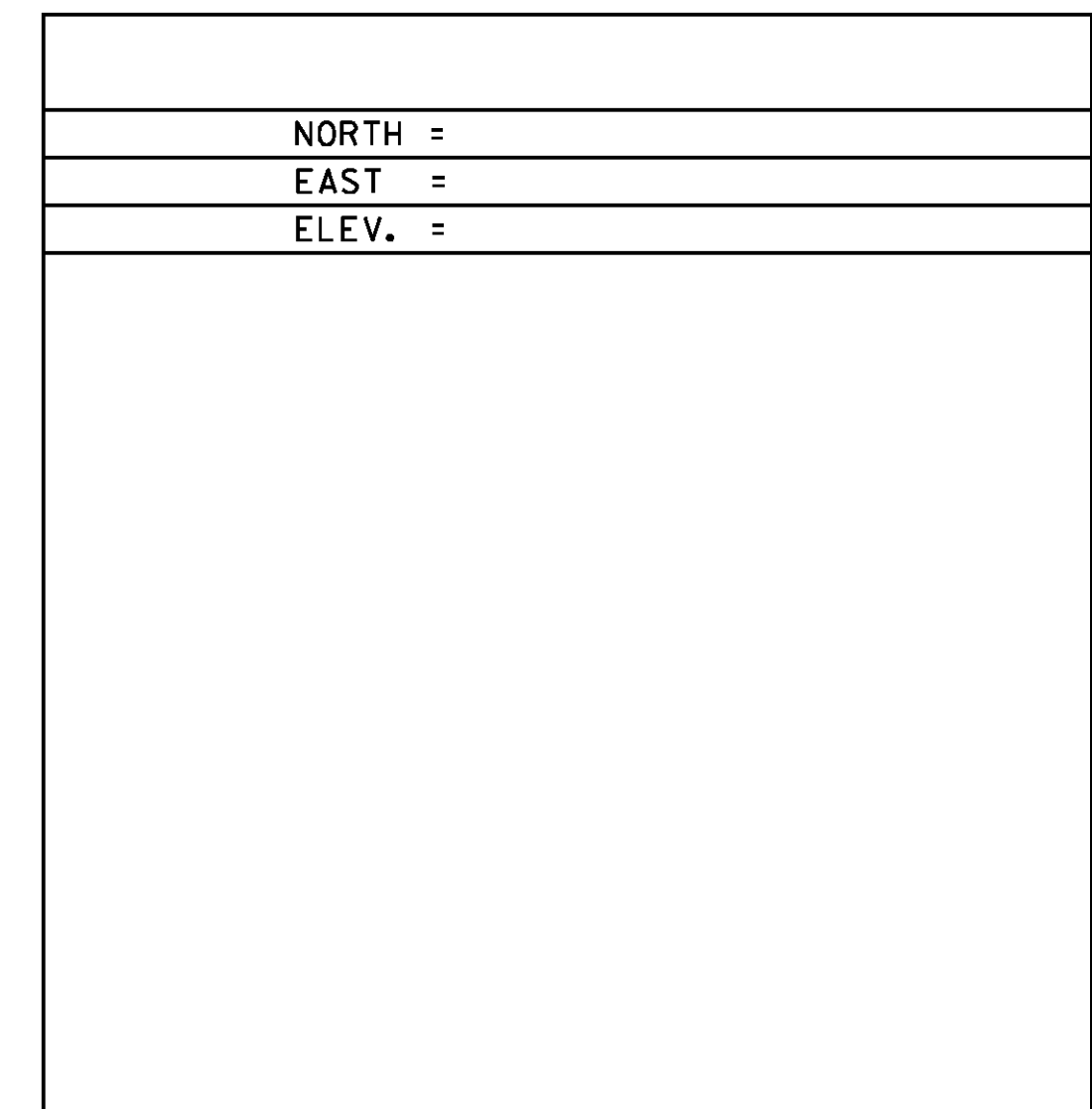
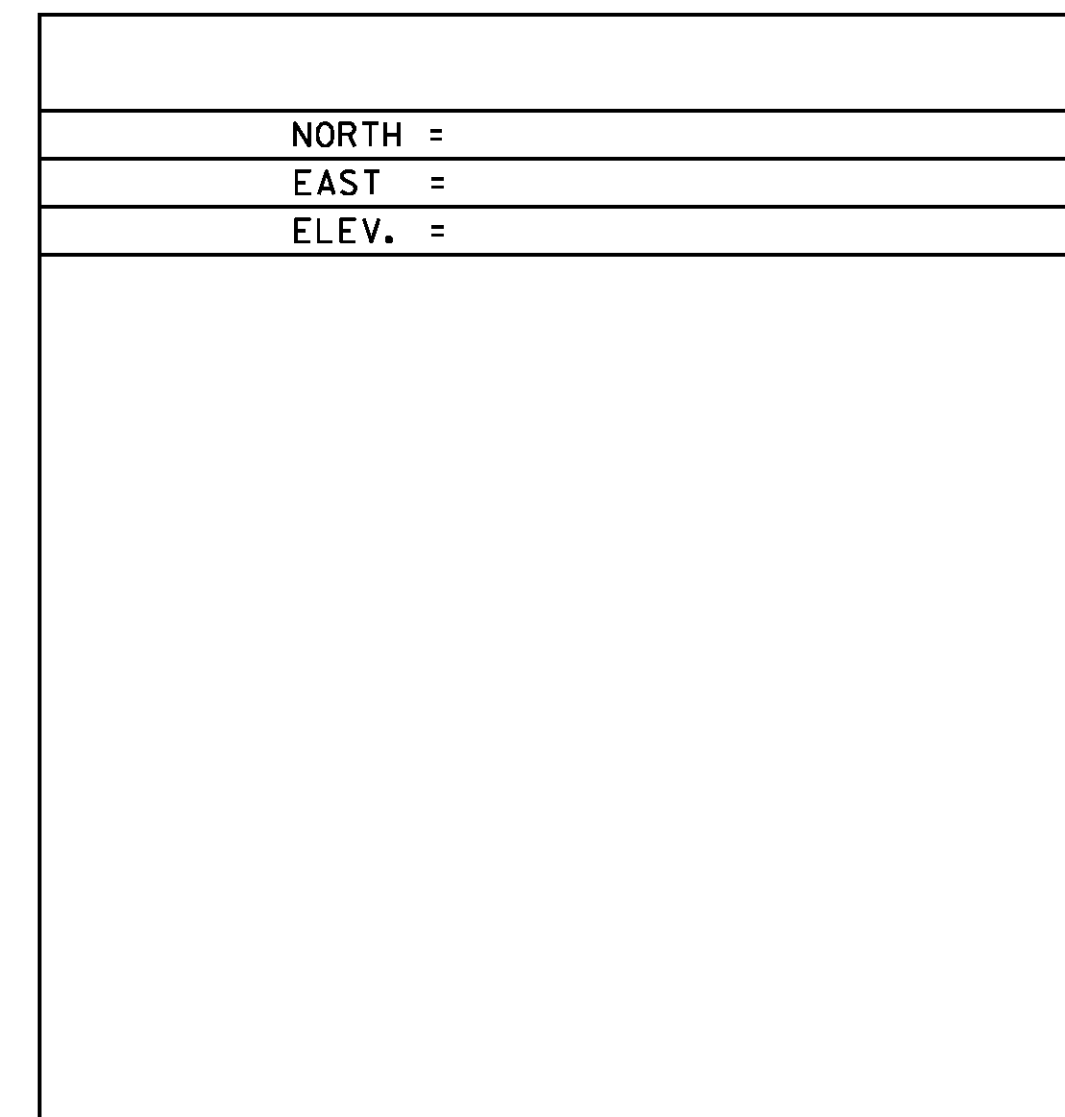
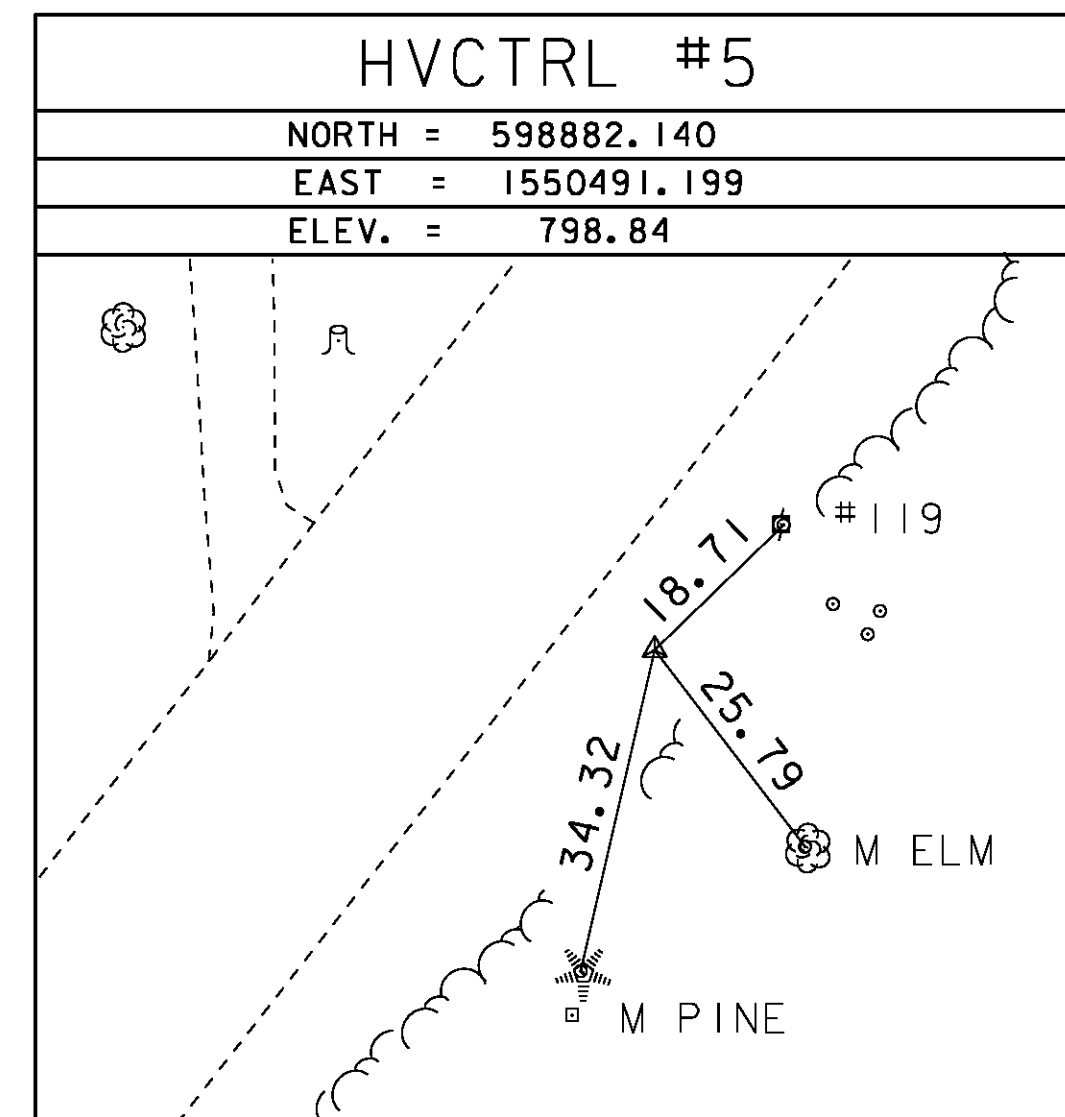
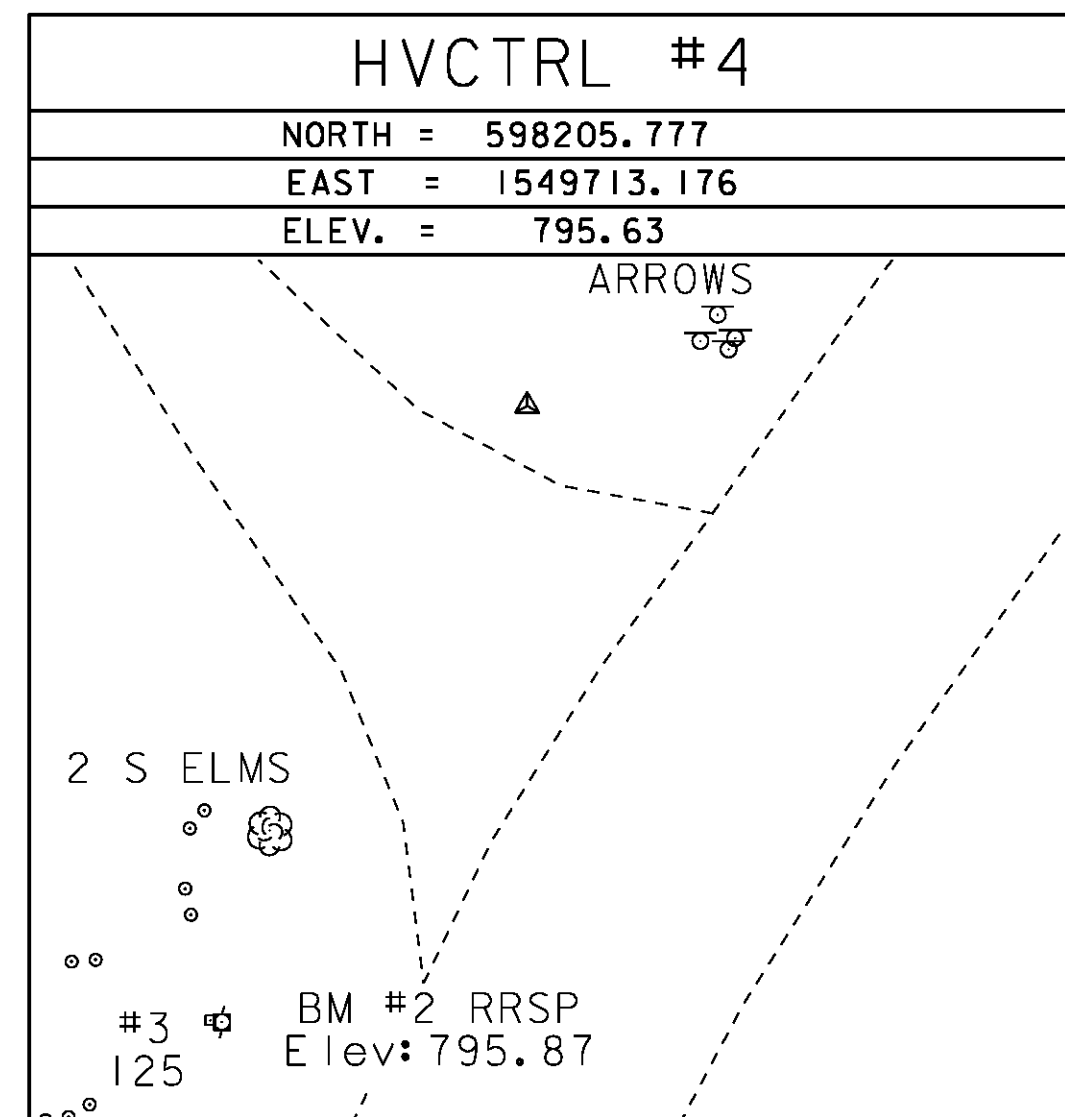
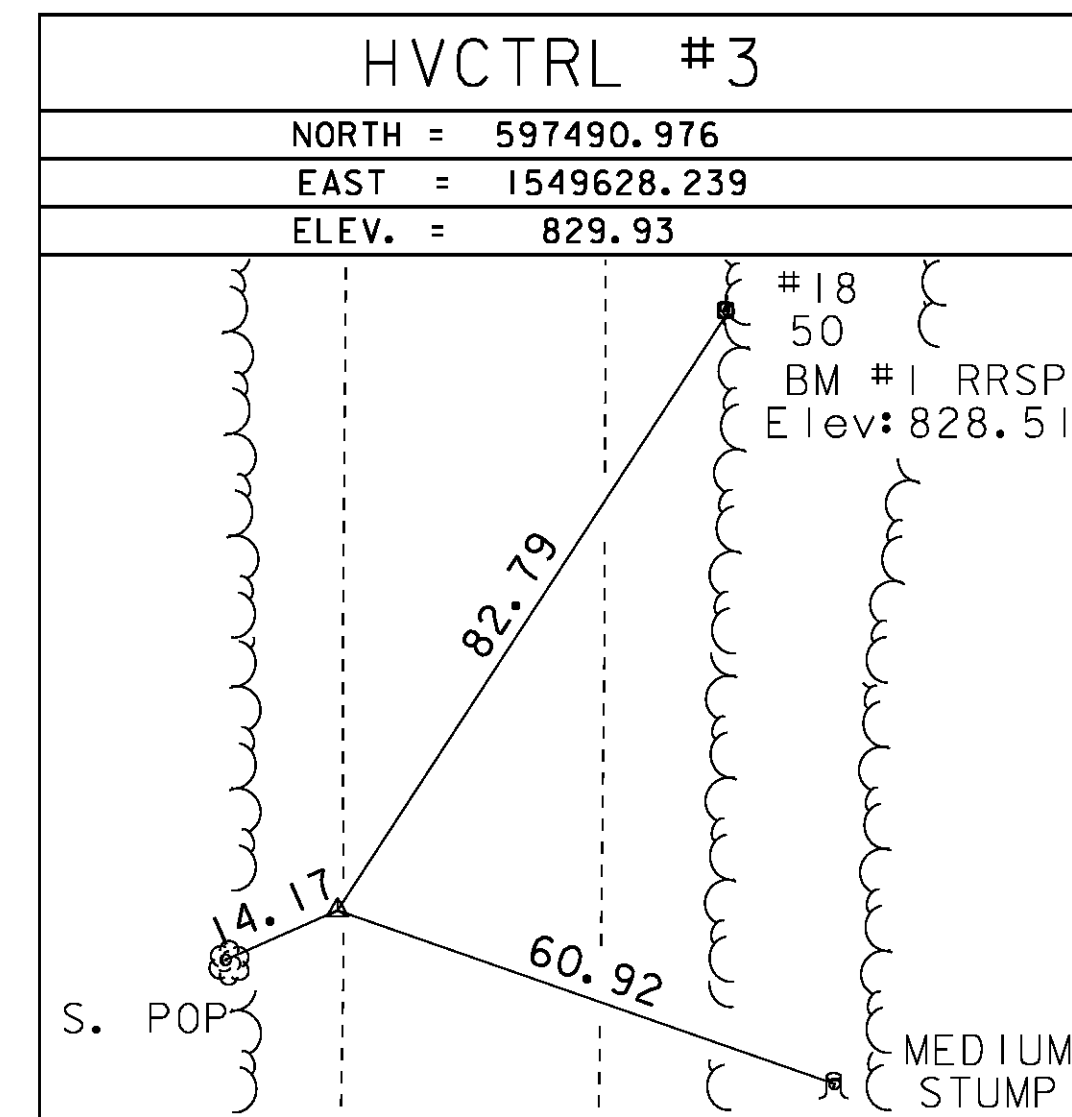
GENERAL LOCATION - THE STATION IS LOCATED IN THE TOWN OF WARREN, 1.1 MI (1.8 KM) NORTH NORTHEAST OF WARREN VILLAGE, 4.5 MI (7.2 KM) SOUTH SOUTHWEST OF WAITSFIELD, AND 10 MI (16.1 KM) WEST OF NORTHFIELD. TO REACH FROM THE JUNCTION OF VERMONT ROUTE 100 AND VERMONT ROUTE 17 IN THE VILLAGE OF IRASVILLE, PROCEED SOUTHERLY ALONG ROUTE 100 FOR 3.8 MI (6.1 KM) TO THE MARK ON THE LEFT. TO REACH FROM THE JUNCTION OF VERMONT ROUTE 100 AND THE SUGARBUSH ACCESS ROAD IN WARREN, PROCEED 0.4 MI (0.6 KM) SOUTH ALONG ROUTE 100 TO THE MARK ON THE LEFT. TO REACH FROM THE JUNCTION OF VERMONT ROUTE 100 AND VERMONT ROUTE 125 IN HANCOCK, PROCEED NORTHERLY ALONG ROUTE 100 FOR 16.2 MI (26.1 KM) TO THE MARK ON THE RIGHT. THE MARK IS A STATE OF VERMONT SURVEY DISK SET IN THE TOP OF A CONCRETE MONUMENT 30 CM IN DIAMETER FLUSH WITH THE GROUND SURFACE. IT IS LOCATED 21.5 FT (6.6 M) SOUTH SOUTHWEST FROM THE SOUTHERLY END OF A THREE CABLE GUARDRAIL, 20.5 FT (6.2 M) SOUTHEAST FROM THE CENTERLINE OF VERMONT ROUTE 100, 20.5 FT (6.2 M) SOUTHWEST FROM UTILITY POLE 25, 3 FT (0.9 M) FROM A FIBERGLASS WITNESS POST. OWNERSHIP IS THE STATE OF VERMONT.

HVCTRL #2

SUGARBUSH
 NORTH = 596983.400
 EAST = 1549559.000
 ELEV. = 814.32

GENERAL LOCATION, WARREN, VT. TO REACH FROM THE INTERSECTION OF VT ROUTE 100 AND VT ROUTE 17 IN IRASVILLE VILLAGE GO SOUTH ALONG ROUTE 100 FOR 3.4 MI (5.5 KM) TO THE SITE OF MARK ON THE NORTHWEST SIDE OF THE ROAD AT THE INTERSECTION OF ROUTE 100 AND THE SUGARBUSH ACCESS ROAD. THE MARK IS A STATE OF VERMONT SURVEY MARK DISK SET IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT FLUSH WITH GROUND SURFACE. IT IS 21 FT (6.4 M) N55W FROM THE CENTERLINE OF ROUTE 100, 52.5 FT (16.0 M) NORTH OF THE CENTERLINE INTERSECTION OF ROUTE 100 AND THE SUGARBUSH ACCESS ROAD, 30 FT (9.1 M) N70E FROM POLE NO.50/01, 72.5 FT (22.1 M) SIDE FROM THE NORTHEAST CORNER OF A 1.5 STORY WOOD FRAME BUILDING, 47 FT (14.3 M) S40E FROM THE SOUTHEAST CORNER OF THE BUILDING.

TRAVERSE TIES



* Main Traverse Completed 11/06/08 by R. Gilman P.C. & P. Winters

ALIGNMENT TIES

STATION	TH #11	NORTHING	EASTING
POB 200+00.00	597801.3278	1549645.4905	
Tangent Direction:	N 1°51'19.83" E		
Tangent Length:	95.70		
PC 200+95.70	597896.9743	1549648.5891	
PI 203+53.88	598155.0187	1549656.9487	
Radius:	557.74		
Delta:	49°40'44.51" Right		
Degree of Curvature (Arc):	10°16'22.14"		
Length:	483.60		
Tangent:	258.18		
Chord:	468.59		
Middle Ordinate:	51.60		
External:	56.86		
PT 205+79.29	598315.6176	1549859.0992	
Tangent Direction:	N 51°32'04.33" E		
Tangent Length:	348.04		
PC 209+27.34	598532.1157	1550131.6116	
PI 211+14.95	598648.8163	1550278.5060	
Radius:	1574.80		
Delta:	13°35'14.82" Left		
Degree of Curvature (Arc):	3°38'17.84"		
Length:	373.46		
Tangent:	187.61		
Chord:	372.58		
Middle Ordinate:	11.06		
External:	11.14		

PT 213+00.79	598796.7605	1550393.8728
Tangent Direction:	N 37°56'49.52" E	
Tangent Length:	339.49	
PC 216+40.29	599064.4764	1550602.6376
PI 217+77.74	599172.8694	1550687.1624
Radius:	1394.35	
Delta:	11°15'35.64" Left	
Degree of Curvature (Arc):	4°06'32.86"	
Length:	274.02	
Tangent:	137.45	
Chord:	273.58	
Middle Ordinate:	6.73	
External:	6.76	

PT 219+14.31	599295.6802	1550748.8954
POE 233+03.61	600536.9863	1551372.8595

STATION	TH #41	NORTHING	EASTING
POB 400+00.00	598445.7811	1550107.9602	
Tangent Direction:	S 61°32'20.59" W		
Tangent Length:	12.14		
PC 400+12.14	598439.9946	1550097.2854	
PI 400+41.72	598425.8990	1550071.2824	
Radius:	70.00		
Delta:	45°48'43.00" Left		
Degree of Curvature (Arc):	81°51'04.01"		
Length:	55.97		
Tangent:	29.58		
Chord:	54.49		
Middle Ordinate:	5.52		
External:	5.99		
PT 400+68.11	598397.4285	1550063.2651	
POE 401+28.57	598339.2296	1550046.8764	

STATION	TH #9	NORTHING	EASTING
POB 300+00.00	598488.976	1550077.3324	
Tangent Direction:	S 38°27'50.40" E		
Tangent Length:	19.88		
PC 300+19.88	598473.4110	1550089.6974	
PI 300+69.49	598434.5689	1550120.5540	
Radius:	190.00		
Delta:	29°15'55.06" Right		
Degree of Curvature (Arc):	30°09'20.42"		
Length:	97.05		
Tangent:	49.61		
Chord:	96.00		
Middle Ordinate:	6.16		
External:	6.37		
PT 301+16.93	598385.5999	1550128.4841	
POE 301+56.30	598346.7333	1550134.7782	

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(07)
ADJUSTMENT	Compass

*Alignment Coordinates as of 7/14/2009

Drive left @ 203+75.00

POB 500+00.00	598162.3903	1549725.7124
POE 501+00.00	598237.3421	1549659.5141

PROJECT NAME: WARREN
 PROJECT NUMBER: BRF 013-4(14)

FILE NAME: 78f242/str/s78f242tie.dgn PLOT DATE: 27-JUL-2012
 PROJECT LEADER: J. LACROIX DRAWN BY: R. BULLOCK
 DESIGNED BY: U. STANLEY CHECKED BY: U. STANLEY
 TIE SHEET SHEET 13 OF 83