

RAMP E_25TH_D

Point 1290 N 1,896,012.2594 E 1,112,273.3279 Sta 0+00.00

Course from 1290 to PC E_25TH_D-1 S 88° 09' 22.62" W Dist 55.7992

Curve Data

Curve E_25TH_D-1
 P.I. Station = 2+13.34 N 1,896,003.6140 E 1,112,060.1643
 Delta = 42° 20' 44.60" (RT)
 Degree = 14° 05' 11.75"
 Tangent = 157.5423
 Length = 300.6100
 Radius = 406.7396
 External = 29.4446
 Long Chord = 293.8148
 Mid. Ord. = 27.4570
 P.C. Station = 0+55.80 N 1,896,010.4642 E 1,112,217.5576
 P.T. Station = 3+56.41 N 1,896,104.5716 E 1,111,939.2215
 C.C. = N 1,896,416.8191 E 1,112,199.8719
 Back = S 87° 30' 28.45" W
 Ahead = N 50° 08' 46.94" W
 Chord Bear = N 71° 19' 09.25" W

Curve Data

Curve E_25TH_D-2
 P.I. Station = 4+29.00 N 1,896,156.5456 E 1,111,888.5478
 Delta = 57° 07' 15.68" (RT)
 Degree = 42° 57' 52.47"
 Tangent = 72.5888
 Length = 132.9491
 Radius = 133.3559
 External = 18.4760
 Long Chord = 127.5113
 Mid. Ord. = 16.2277
 P.C. Station = 3+56.41 N 1,896,104.5716 E 1,111,939.2215
 P.T. Station = 4+89.36 N 1,896,227.3174 E 1,111,904.6875
 C.C. = N 1,896,197.6664 E 1,112,034.7052
 Back = N 44° 16' 27.30" W
 Ahead = N 12° 50' 48.38" E
 Chord Bear = N 15° 42' 49.46" W

Curve Data

Curve E_25TH_D-3
 P.I. Station = 5+96.17 N 1,896,327.4119 E 1,111,941.9613
 Delta = 66° 55' 50.76" (RT)
 Degree = 35° 27' 32.17"
 Tangent = 106.8094
 Length = 188.7557
 Radius = 161.5835
 External = 32.1108
 Long Chord = 178.2049
 Mid. Ord. = 26.7874
 P.C. Station = 4+89.36 N 1,896,227.3174 E 1,111,904.6875
 P.T. Station = 6+78.11 N 1,896,332.3401 E 1,112,048.6570
 C.C. = N 1,896,170.9287 E 1,112,056.1125
 Back = N 20° 25' 28.74" E
 Ahead = N 87° 21' 19.50" E
 Chord Bear = N 53° 53' 24.12" E

Curve Data

Curve E_25TH_D-4
 P.I. Station = 7+54.42 N 1,896,339.9313 E 1,112,124.5818
 Delta = 29° 55' 04.82" (RT)
 Degree = 20° 03' 45.31"
 Tangent = 76.3034
 Length = 149.1234
 Radius = 285.5852
 External = 10.0178
 Long Chord = 147.4350
 Mid. Ord. = 9.6783
 P.C. Station = 6+78.11 N 1,896,332.3401 E 1,112,048.6570
 P.T. Station = 8+27.24 N 1,896,308.6427 E 1,112,194.1751
 C.C. = N 1,896,048.1717 E 1,112,077.0691
 Back = N 84° 17' 25.29" E
 Ahead = S 65° 47' 29.89" E
 Chord Bear = S 80° 45' 02.30" E

RAMP E_25TH_D

Curve Data

Curve E_25TH_D-5
 P.I. Station = 8+73.64 N 1,896,289.0066 E 1,112,236.2224
 Delta = 39° 37' 36.85" (RT)
 Degree = 44° 28' 58.77"
 Tangent = 46.4064
 Length = 89.0833
 Radius = 128.8038
 External = 8.1048
 Long Chord = 87.3184
 Mid. Ord. = 7.6250
 P.C. Station = 8+27.24 N 1,896,308.6427 E 1,112,194.1751
 P.T. Station = 9+16.32 N 1,896,247.0655 E 1,112,256.0843
 C.C. = N 1,896,191.9376 E 1,112,139.6741
 Back = S 64° 58' 03.13" E
 Ahead = S 25° 20' 26.27" E
 Chord Bear = S 45° 09' 14.70" E

Curve Data

Curve E_25TH_D-6
 P.I. Station = 9+55.29 N 1,896,210.9602 E 1,112,270.7607
 Delta = 14° 37' 14.00" (RT)
 Degree = 18° 51' 32.96"
 Tangent = 38.9742
 Length = 77.5250
 Radius = 303.8088
 External = 2.4897
 Long Chord = 77.3148
 Mid. Ord. = 2.4695
 P.C. Station = 9+16.32 N 1,896,247.0655 E 1,112,256.0843
 P.T. Station = 9+93.85 N 1,896,172.3195 E 1,112,275.8483
 C.C. = N 1,896,132.6611 E 1,111,974.6391
 Back = S 22° 07' 16.38" E
 Ahead = S 7° 30' 02.38" E
 Chord Bear = S 14° 48' 39.38" E

RAMP E_25TH_E

Point 1300 N 1,896,060.4203 E 1,113,054.8552 Sta 0+00.00

Course from 1300 to 1301 N 89° 39' 43.70" W Dist 30.2231

Point 1301 N 1,896,060.5986 E 1,113,024.6326 Sta 0+30.22

Course from 1301 to 1302 N 85° 07' 51.72" W Dist 270.3451

Point 1302 N 1,896,083.5447 E 1,112,755.2631 Sta 3+00.57

Course from 1302 to PC E_25TH_E-1 N 86° 28' 45.76" W Dist 292.0174

Curve Data

Curve E_25TH_E-1
 P.I. Station = 7+12.16 N 1,896,101.2628 E 1,112,344.2208
 Delta = 83° 22' 29.59" (RT)
 Degree = 42° 40' 20.95"
 Tangent = 119.5762
 Length = 195.3832
 Radius = 134.2687
 External = 45.5272
 Long Chord = 178.5952
 Mid. Ord. = 33.9990
 P.C. Station = 5+92.59 N 1,896,101.4769 E 1,112,463.7968
 P.T. Station = 7+87.97 N 1,896,220.0156 E 1,112,330.2123
 C.C. = N 1,896,235.7453 E 1,112,463.5564
 Back = S 89° 53' 50.74" W
 Ahead = N 6° 43' 39.68" W
 Chord Bear = N 48° 24' 54.47" W

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-290 RAMP CURVE DATA				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \expln_abc_c2_290_r_data_exalign_29.dgn	DRAWN - TMB	REVISED -			290	(3435, ETC., 3838)RS-5	COOK	264	45				
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60G52								
PLOT DATE = 1/25/2010	DATE = 1/25/10	REVISED -			SCALE: N.T.S.	SHEET NO. 20 OF 22 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					