

RAMP E_ARMY_E

Curve Data

Curve E ARMY E-1
 P.I. Station 0+90.55 N 1,917,782.6745 E 1,064,780.7600
 Delta = 4° 32' 07.68" (LT)
 Degree = 2° 30' 20.88"
 Tangent = 90.5466
 Length = 180.9986
 Radius = 2,286.5252
 External = 1.7921
 Long Chord = 180.9514
 Mid. Ord. = 1.7907
 P.C. Station 0+00.00 N 1,917,873.2211 E 1,064,780.7320
 P.T. Station 1+81.00 N 1,917,692.4137 E 1,064,787.9481
 C.C. N 1,917,873.9286 E 1,067,067.2571
 Back = S 0° 01' 03.82" E
 Ahead = S 4° 33' 11.50" E
 Chord Bear = S 2° 17' 07.66" E

Curve Data

Curve E ARMY E-2
 P.I. Station 2+48.85 N 1,917,625.0070 E 1,064,795.7317
 Delta = 3° 07' 11.01" (LT)
 Degree = 2° 17' 57.84"
 Tangent = 67.8546
 Length = 135.6757
 Radius = 2,491.7717
 External = 0.9237
 Long Chord = 135.6589
 Mid. Ord. = 0.9234
 P.C. Station 1+81.00 N 1,917,692.4137 E 1,064,787.9481
 P.T. Station 3+16.67 N 1,917,558.1238 E 1,064,807.1722
 C.C. N 1,917,978.2460 E 1,067,263.2715
 Back = S 6° 35' 12.93" E
 Ahead = S 9° 42' 23.94" E
 Chord Bear = S 8° 08' 48.44" E

Curve Data

Curve E ARMY E-3
 P.I. Station 3+65.12 N 1,917,510.3695 E 1,064,815.3407
 Delta = 28° 19' 26.05" (LT)
 Degree = 29° 50' 29.59"
 Tangent = 48.4478
 Length = 94.9143
 Radius = 192.0000
 External = 6.0182
 Long Chord = 93.9508
 Mid. Ord. = 5.8353
 P.C. Station 3+16.67 N 1,917,558.1238 E 1,064,807.1722
 P.T. Station 4+11.59 N 1,917,472.2080 E 1,064,845.1885
 C.C. N 1,917,590.4957 E 1,064,996.4235
 Back = S 9° 42' 23.94" E
 Ahead = S 38° 01' 50.00" E
 Chord Bear = S 23° 52' 06.97" E

Curve Data

Curve E ARMY E-4
 P.I. Station 5+28.98 N 1,917,379.7391 E 1,064,917.5126
 Delta = 46° 41' 22.27" (LT)
 Degree = 21° 03' 52.65"
 Tangent = 117.3937
 Length = 221.6489
 Radius = 272.0000
 External = 24.2521
 Long Chord = 215.5670
 Mid. Ord. = 22.2667
 P.C. Station 4+11.59 N 1,917,472.2080 E 1,064,845.1885
 P.T. Station 6+33.24 N 1,917,368.9363 E 1,065,034.4082
 C.C. N 1,917,639.7822 E 1,065,059.4381
 Back = S 38° 01' 50.00" E
 Ahead = S 84° 43' 12.26" E
 Chord Bear = S 61° 22' 31.13" E

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Curve Data

Curve E ARMY E-5
 P.I. Station 7+05.00 N 1,917,362.3325 E 1,065,105.8680
 Delta = 33° 02' 06.37" (LT)
 Degree = 23° 40' 33.39"
 Tangent = 71.7643
 Length = 139.5303
 Radius = 242.0000
 External = 10.4166
 Long Chord = 137.6056
 Mid. Ord. = 9.9867
 P.C. Station 6+33.24 N 1,917,368.9363 E 1,065,034.4082
 P.T. Station 7+72.77 N 1,917,395.7527 E 1,065,169.3755
 C.C. N 1,917,609.9095 E 1,065,056.6775
 Back = S 84° 43' 12.26" E
 Ahead = N 62° 14' 41.36" E
 Chord Bear = N 78° 45' 44.55" E

Curve Data

Curve E ARMY E-6
 P.I. Station 8+25.68 N 1,917,420.3918 E 1,065,216.1966
 Delta = 21° 15' 08.68" (LT)
 Degree = 20° 19' 03.55"
 Tangent = 52.9084
 Length = 104.6007
 Radius = 282.0000
 External = 4.9204
 Long Chord = 104.0021
 Mid. Ord. = 4.8360
 P.C. Station 7+72.77 N 1,917,395.7527 E 1,065,169.3755
 P.T. Station 8+77.37 N 1,917,460.3269 E 1,065,250.9023
 C.C. N 1,917,645.3074 E 1,065,038.0497
 Back = N 62° 14' 41.36" E
 Ahead = N 40° 59' 32.69" E
 Chord Bear = N 51° 37' 07.03" E

Curve Data

Curve E ARMY E-7
 P.I. Station 9+38.83 N 1,917,506.7184 E 1,065,291.2190
 Delta = 29° 40' 34.59" (LT)
 Degree = 24° 41' 47.24"
 Tangent = 61.4623
 Length = 120.1641
 Radius = 232.0000
 External = 8.0034
 Long Chord = 118.8254
 Mid. Ord. = 7.7365
 P.C. Station 8+77.37 N 1,917,460.3269 E 1,065,250.9023
 P.T. Station 9+97.53 N 1,917,566.9858 E 1,065,303.2793
 C.C. N 1,917,612.5094 E 1,065,075.7895
 Back = N 40° 59' 32.69" E
 Ahead = N 11° 18' 58.10" E
 Chord Bear = N 26° 09' 15.40" E

Curve Data

Curve E ARMY E-8
 P.I. Station 12+27.73 N 1,917,792.7113 E 1,065,348.4498
 Delta = 81° 44' 48.79" (LT)
 Degree = 21° 32' 23.16"
 Tangent = 230.2007
 Length = 379.5161
 Radius = 266.0000
 External = 85.7789
 Long Chord = 348.1357
 Mid. Ord. = 64.8623
 P.C. Station 9+97.53 N 1,917,566.9858 E 1,065,303.2793
 P.T. Station 13+77.05 N 1,917,869.8161 E 1,065,131.5461
 C.C. N 1,917,619.1810 E 1,065,042.4505
 Back = N 11° 18' 58.10" E
 Ahead = N 70° 25' 50.68" W
 Chord Bear = N 29° 33' 26.29" W

Course from PT E ARMY E-8 to PC E ARMY E-9 N 70° 25' 50.68" W Dist 52.4401

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Curve Data

Curve E ARMY E-9
 P.I. Station 14+86.88 N 1,917,906.6036 E 1,065,028.0591
 Delta = 7° 34' 58.99" (LT)
 Degree = 6° 36' 58.11"
 Tangent = 57.3910
 Length = 114.6145
 Radius = 866.0000
 External = 1.8996
 Long Chord = 114.5308
 Mid. Ord. = 1.8955
 P.C. Station 14+29.49 N 1,917,887.3807 E 1,065,082.1351
 P.T. Station 15+44.10 N 1,917,918.5223 E 1,064,971.9194
 C.C. N 1,917,071.4032 E 1,064,792.0719
 Back = N 70° 25' 50.68" W
 Ahead = N 78° 00' 49.68" W
 Chord Bear = N 74° 13' 20.18" W

Course from PT E ARMY E-9 to 1011 N 78° 00' 49.68" W Dist 181.4162

Point 1011 N 1,917,956.1981 E 1,064,794.4585 Sta 17+25.52

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-355 CURVE DATA			F.A.I. SECTION	COUNTY	TOTAL SHEET SHEETS
...\\exp\in_abc\c1_355_r_data\exalign_33.dgn	DRAWN - TMB	REVISED -			* 224, 1-1, 2&3RS-7	DUPAGE	546 50			
USER NAME = jmajewski	CHECKED - JMM	REVISED -			*290,355	CONTRACT NO. 60651				
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 25 OF 44 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		