

I-290 EB

Curve Data

Course from 151 to PC E I290 E-8 S 85° 59' 55.70" E Dist 496.1552
 Curve E I290 E-8
 P.I. Station = 878+39.74 N 1,895,965.3955 E 1,138,047.7690
 Delta = 6° 30' 53.11" (LT)
 Degree = 2° 16' 16.10"
 Tangent = 143.5794
 Length = 286.8495
 Radius = 2,522.7759
 External = 4.0825
 Long Chord = 286.6950
 Mid. Ord. = 4.0759
 P.C. Station = 876+96.16 N 1,895,970.9201 E 1,137,904.2959
 P.T. Station = 879+83.01 N 1,895,976.1848 E 1,138,190.9425
 C.C. = N 1,898,491.8278 E 1,138,001.3671
 Back = S 87° 47' 41.39" E
 Ahead = N 85° 41' 25.49" E
 Chord Bear = N 88° 56' 52.05" E

Curve Data

Curve E I290 E-9
 P.I. Station = 882+07.25 N 1,895,988.5749 E 1,138,414.8455
 Delta = 6° 45' 34.97" (LT)
 Degree = 1° 30' 32.27"
 Tangent = 224.2456
 Length = 447.9708
 Radius = 3,797.0299
 External = 6.6160
 Long Chord = 447.7111
 Mid. Ord. = 6.6045
 P.C. Station = 879+83.01 N 1,895,976.1848 E 1,138,190.9425
 P.T. Station = 884+30.98 N 1,896,027.2335 E 1,138,635.7337
 C.C. = N 1,899,767.4145 E 1,137,981.1482
 Back = N 86° 49' 57.61" E
 Ahead = N 80° 04' 22.63" E
 Chord Bear = N 83° 27' 10.12" E

Course from PT E I290 E-9 to PC E I290 E-10 N 80° 40' 35.19" E Dist 756.6413

Curve Data

Curve E I290 E-10
 P.I. Station = 893+82.95 N 1,896,183.2643 E 1,139,574.8277
 Delta = 7° 05' 42.40" (RT)
 Degree = 1° 49' 06.52"
 Tangent = 195.3335
 Length = 390.1677
 Radius = 3,150.7566
 External = 6.0491
 Long Chord = 389.9185
 Mid. Ord. = 6.0375
 P.C. Station = 891+87.62 N 1,896,149.8166 E 1,139,382.3791
 P.T. Station = 895+77.79 N 1,896,192.6853 E 1,139,769.9339
 C.C. = N 1,893,045.5954 E 1,139,921.8948
 Back = N 80° 08' 25.60" E
 Ahead = N 87° 14' 07.99" E
 Chord Bear = N 83° 41' 16.79" E

Curve Data

Curve E I290 E-11
 P.I. Station = 897+00.32 N 1,896,199.7159 E 1,139,892.2671
 Delta = 3° 01' 39.97" (RT)
 Degree = 1° 14' 08.73"
 Tangent = 122.5350
 Length = 245.0130
 Radius = 4,636.4864
 External = 1.6189
 Long Chord = 244.9845
 Mid. Ord. = 1.6184
 P.C. Station = 895+77.79 N 1,896,192.6853 E 1,139,769.9339
 P.T. Station = 898+22.80 N 1,896,200.2751 E 1,140,014.8008
 C.C. = N 1,891,563.8370 E 1,140,035.9596
 Back = N 86° 42' 38.73" E
 Ahead = N 89° 44' 18.70" E
 Chord Bear = N 88° 13' 28.71" E

I-290 EB

Course from PT E I290 E-11 to 152 N 88° 38' 12.14" E Dist 1,785.4184

Point 152 N 1,896,242.7533 E 1,141,799.7139 Sta 916+08.22

Course from 152 to 153 N 88° 41' 27.67" E Dist 1,569.7732

Point 153 N 1,896,278.6133 E 1,143,369.0774 Sta 931+77.99

Course from 153 to 154 N 88° 41' 54.94" E Dist 1,098.8350

Point 154 N 1,896,303.5698 E 1,144,467.6289 Sta 942+76.82

Course from 154 to PC E I290 E-12 N 88° 14' 19.36" E Dist 390.8488

Curve Data

Curve E I290 E-12
 P.I. Station = 950+73.85 N 1,896,334.9802 E 1,145,264.0036
 Delta = 0° 07' 22.68" (RT)
 Degree = 0° 00' 54.49"
 Tangent = 406.1740
 Length = 812.3476
 Radius = 378,510.8663
 External = 0.2179
 Long Chord = 812.3475
 Mid. Ord. = 0.2179
 P.C. Station = 946+67.67 N 1,896,315.5827 E 1,144,858.2931
 P.T. Station = 954+80.02 N 1,896,353.5069 E 1,145,669.7548
 C.C. = N 1,518,236.5948 E 1,162,934.6519
 Back = N 87° 15' 45.76" E
 Ahead = N 87° 23' 08.44" E
 Chord Bear = N 87° 19' 27.10" E

Curve Data

Curve E I290 E-13
 P.I. Station = 955+55.58 N 1,896,358.0712 E 1,145,745.1771
 Delta = 0° 36' 57.58" (LT)
 Degree = 0° 24' 27.44"
 Tangent = 75.5602
 Length = 151.1190
 Radius = 14,056.1279
 External = 0.2031
 Long Chord = 151.1183
 Mid. Ord. = 0.2031
 P.C. Station = 954+80.02 N 1,896,353.5069 E 1,145,669.7548
 P.T. Station = 956+31.14 N 1,896,363.4461 E 1,145,820.5459
 C.C. = N 1,910,383.9665 E 1,144,820.6763
 Back = N 86° 32' 12.72" E
 Ahead = N 85° 55' 15.14" E
 Chord Bear = N 86° 13' 43.93" E

Course from PT E I290 E-13 to PC E I290 E-14 N 84° 42' 55.22" E Dist 36.6383

Curve Data

Curve E I290 E-14
 P.I. Station = 958+90.92 N 1,896,389.5771 E 1,146,079.0101
 Delta = 14° 00' 29.73" (LT)
 Degree = 3° 09' 16.39"
 Tangent = 223.1450
 Length = 444.0648
 Radius = 1,816.2883
 External = 13.6562
 Long Chord = 442.9596
 Mid. Ord. = 13.5543
 P.C. Station = 956+67.78 N 1,896,366.8206 E 1,145,857.0285
 P.T. Station = 961+11.84 N 1,896,465.3901 E 1,146,288.8818
 C.C. = N 1,898,173.6395 E 1,145,671.8021
 Back = N 84° 08' 48.33" E
 Ahead = N 70° 08' 18.60" E
 Chord Bear = N 77° 08' 33.47" E

FILE NAME =	DESIGNED - CAG	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA			F.A.I. <td>SECTION</td> <td>COUNTY</td> <td>TOTAL</td> <td>SHEET</td>	SECTION	COUNTY	TOTAL	SHEET
\\exp\in\ABC\C3\298\ML_Data\align_14.dgn	DRAWN - DMS	REVISED -						RTE.	(2727, ETC., 3131RS-7	COOK	216	29
USER NAME = jmajewski	CHECKED - CAR	REVISED -			SCALE: N.T.S.	SHEET NO. 9	OF 18 SHEETS	STA.	TO STA.	CONTRACT NO. 60G53		
PLDT DATE = 1/25/2010	DATE - 1/25/10	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				