

**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 -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expIn_ABC_C3_292_M...Data_exalign_14.dgn	DRAWN - DMS	REVISED -			290	(2828B,D, ETC., 3031,1)RS-6	COOK	185	29			
USER NAME = tblank	CHECKED - CAR	REVISED -			CONTRACT NO. 60C53							
PLOT DATE = 11/12/2289	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 14 OF 33 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		