

**I-290 WB**

Curve Data

Course from 305 to PC E I290 F-16 S 88° 02' 12.67" E Dist 734.3420  
 Curve E I290 F-16  
 P.I. Station 881+85.66 N 1,896,056.7392 E 1,138,390.7748  
 Delta = 11° 24' 45.21" (LT)  
 Degree = 1° 32' 39.70"  
 Tangent = 370.7178  
 Length = 738.9826  
 Radius = 3,710.0000  
 External = 18.4758  
 Long Chord = 737.7616  
 Mid. Ord. = 18.3842  
 P.C. Station 878+14.94 N 1,896,069.4388 E 1,138,020.2745  
 P.T. Station 885+53.93 N 1,896,117.6025 E 1,138,756.4623  
 C.C. N 1,899,777.2613 E 1,138,147.3667  
 Back = S 88° 02' 12.67" E  
 Ahead = N 80° 33' 02.12" E  
 Chord Bear = N 86° 15' 24.72" E

Course from PT E I290 F-16 to PC E I290 F-17 N 80° 33' 02.12" E Dist 707.3161

Curve Data

Curve E I290 F-17  
 P.I. Station 896+59.77 N 1,896,299.1559 E 1,139,847.2987  
 Delta = 8° 07' 22.90" (RT)  
 Degree = 1° 01' 15.04"  
 Tangent = 398.5255  
 Length = 795.7155  
 Radius = 5,612.5800  
 External = 14.1310  
 Long Chord = 795.0493  
 Mid. Ord. = 14.0955  
 P.C. Station 892+61.24 N 1,896,233.7273 E 1,139,454.1808  
 P.T. Station 900+56.96 N 1,896,308.3808 E 1,140,245.7175  
 C.C. N 1,890,697.3047 E 1,140,375.6357  
 Back = N 80° 33' 02.12" E  
 Ahead = N 88° 40' 25.02" E  
 Chord Bear = N 84° 36' 43.57" E

Course from PT E I290 F-17 to PC E I290 F-18 N 88° 40' 25.02" E Dist 5,356.1385

Curve Data

Curve E I290 F-18  
 P.I. Station 959+32.92 N 1,896,444.3959 E 1,146,120.1076  
 Delta = 29° 00' 10.36" (LT)  
 Degree = 2° 51' 02.90"  
 Tangent = 519.8261  
 Length = 1,017.3572  
 Radius = 2,009.8100  
 External = 66.1369  
 Long Chord = 1,006.5302  
 Mid. Ord. = 64.0298  
 P.C. Station 954+13.10 N 1,896,432.3631 E 1,145,600.4208  
 P.T. Station 964+30.45 N 1,896,706.8917 E 1,146,568.7891  
 C.C. N 1,898,441.6346 E 1,145,553.8983  
 Back = N 88° 40' 25.02" E  
 Ahead = N 59° 40' 14.66" E  
 Chord Bear = N 74° 10' 19.84" E

Curve Data

Curve E I290 F-19  
 P.I. Station 965+33.51 N 1,896,758.9301 E 1,146,657.7379  
 Delta = 4° 56' 05.60" (LT)  
 Degree = 2° 23' 44.99"  
 Tangent = 103.0529  
 Length = 205.9784  
 Radius = 2,391.4800  
 External = 2.2193  
 Long Chord = 205.9147  
 Mid. Ord. = 2.2173  
 P.C. Station 964+30.45 N 1,896,706.8917 E 1,146,568.7891  
 P.T. Station 966+36.43 N 1,896,818.4274 E 1,146,741.8805  
 C.C. N 1,898,771.0684 E 1,145,361.1670  
 Back = N 59° 40' 14.66" E  
 Ahead = N 54° 44' 09.05" E  
 Chord Bear = N 57° 12' 11.85" E

**I-290 WB**

Curve Data

Curve E I290 F-20  
 P.I. Station 968+20.83 N 1,896,924.8868 E 1,146,892.4382  
 Delta = 7° 55' 19.28" (RT)  
 Degree = 2° 09' 05.58"  
 Tangent = 184.3942  
 Length = 368.2007  
 Radius = 2,663.0000  
 External = 6.3764  
 Long Chord = 367.9075  
 Mid. Ord. = 6.3611  
 P.C. Station 966+36.43 N 1,896,818.4274 E 1,146,741.8805  
 P.T. Station 970+04.63 N 1,897,009.5796 E 1,147,056.2318  
 C.C. N 1,894,644.0906 E 1,148,279.3553  
 Back = N 54° 44' 09.05" E  
 Ahead = N 62° 39' 28.33" E  
 Chord Bear = N 58° 41' 48.69" E

Curve Data

Curve E I290 F-21  
 P.I. Station 974+65.18 N 1,897,221.1117 E 1,147,465.3295  
 Delta = 26° 01' 24.53" (RT)  
 Degree = 2° 52' 29.46"  
 Tangent = 460.5505  
 Length = 905.2115  
 Radius = 1,993.0000  
 External = 52.5209  
 Long Chord = 897.4507  
 Mid. Ord. = 51.1724  
 P.C. Station 970+04.63 N 1,897,009.5796 E 1,147,056.2318  
 P.T. Station 979+09.84 N 1,897,231.7103 E 1,147,925.7580  
 C.C. N 1,895,239.2381 E 1,147,971.6224  
 Back = N 62° 39' 28.33" E  
 Ahead = N 88° 40' 52.86" E  
 Chord Bear = N 75° 40' 10.60" E

Course from PT E I290 F-21 to 306 N 88° 40' 52.86" E Dist 203.1987

Point 306 N 1,897,236.3864 E 1,148,128.9029 Sta 981+13.04

Course from 306 to 307 N 88° 41' 07.55" E Dist 321.8663

Point 307 N 1,897,243.7705 E 1,148,450.6845 Sta 984+34.91

Course from 307 to 308 N 88° 37' 52.52" E Dist 1,332.6150

Point 308 N 1,897,275.6025 E 1,149,782.9193 Sta 997+67.52

Course from 308 to 309 N 88° 36' 36.82" E Dist 684.8989

Point 309 N 1,897,292.2139 E 1,150,467.6167 Sta 1004+52.42

Course from 309 to 310 N 88° 34' 17.76" E Dist 741.6989

Point 310 N 1,897,310.7027 E 1,151,209.0852 Sta 1011+94.12

Course from 310 to 311 N 88° 34' 17.76" E Dist 115.3063

Point 311 N 1,897,313.5771 E 1,151,324.3557 Sta 1013+09.43

Course from 311 to 312 N 88° 41' 54.85" E Dist 1,115.5075

Point 312 N 1,897,338.9128 E 1,152,439.5754 Sta 1024+24.94

Course from 312 to PC E I290 F-22 N 88° 38' 15.64" E Dist 1,737.2260

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.
...\\exp\h_ABC_C3_290_ML_Data_exalign_18.dgn	DRAWN - DMS	REVISED -					290	(28288,D, ETC., 3031,URS-6	COOK	185	33
USER NAME = tblank	CHECKED - CAR	REVISED -					CONTRACT NO. 60C53				
DATE = 11/12/2009	DATE - 10/16/09	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
			SCALE: N.T.S.		SHEET NO. 18 OF 33 SHEETS		STA. TO STA.				