

I-290 WB

Curve Data

Curve E I290 F-28
 P.I. Station = 1152+48.36 N 1,898,091.7633 E 1,165,213.3983
 Delta = 0° 30' 32.23" (RT)
 Degree = 0° 47' 44.51"
 Tangent = 31.9818
 Length = 63.9633
 Radius = 7,200.7078
 External = 0.0710
 Long Chord = 63.9631
 Mid. Ord. = 0.0710
 P.C. Station = 1152+16.37 N 1,898,091.0435 E 1,165,181.4246
 P.T. Station = 1152+80.34 N 1,898,092.1990 E 1,165,245.3772
 C.C. = N 88° 42' 37.46" E
 Back = N 88° 42' 37.46" E
 Ahead = N 89° 13' 09.69" E
 Chord Bear = N 88° 57' 53.57" E

Course from PT E I290 F-28 to PC E I290 F-29 N 88° 14' 09.96" E Dist 2,997.1363

Curve Data

Curve E I290 F-29
 P.I. Station = 1183+46.09 N 1,898,186.5659 E 1,168,309.6775
 Delta = 4° 33' 39.87" (RT)
 Degree = 3° 19' 31.26"
 Tangent = 68.6166
 Length = 137.1608
 Radius = 1,723.0000
 External = 1.3658
 Long Chord = 137.1245
 Mid. Ord. = 1.3647
 P.C. Station = 1182+77.47 N 1,898,184.4538 E 1,168,241.0934
 P.T. Station = 1184+14.63 N 1,898,183.2174 E 1,168,378.2123
 C.C. = N 88° 14' 09.96" E
 Back = N 88° 14' 09.96" E
 Ahead = S 87° 12' 10.17" E
 Chord Bear = S 89° 29' 00.10" E

Curve Data

Curve E I290 F-30
 P.I. Station = 1185+72.34 N 1,898,175.5212 E 1,168,535.7304
 Delta = 7° 47' 34.33" (RT)
 Degree = 2° 28' 28.24"
 Tangent = 157.7060
 Length = 314.9257
 Radius = 2,315.4388
 External = 5.3645
 Long Chord = 314.6830
 Mid. Ord. = 5.3521
 P.C. Station = 1184+14.63 N 1,898,183.2174 E 1,168,378.2123
 P.T. Station = 1187+29.56 N 1,898,146.5379 E 1,168,690.7503
 C.C. = N 87° 12' 10.17" E
 Back = S 87° 12' 10.17" E
 Ahead = S 79° 24' 35.84" E
 Chord Bear = S 83° 18' 23.00" E

Course from PT E I290 F-30 to PC E I290 F-31 S 79° 06' 05.48" E Dist 300.3555

Curve Data

Curve E I290 F-31
 P.I. Station = 1191+83.63 N 1,898,060.6880 E 1,169,136.6265
 Delta = 7° 00' 36.68" (LT)
 Degree = 2° 16' 59.42"
 Tangent = 153.7103
 Length = 307.0371
 Radius = 2,509.4800
 External = 4.7031
 Long Chord = 306.8456
 Mid. Ord. = 4.6943
 P.C. Station = 1190+29.91 N 1,898,089.7499 E 1,168,985.6885
 P.T. Station = 1193+36.95 N 1,898,050.2647 E 1,169,289.9830
 C.C. = N 87° 12' 10.17" E
 Back = S 79° 06' 05.48" E
 Ahead = S 86° 06' 42.16" E
 Chord Bear = S 82° 36' 23.82" E

I-290 WB

Course from PT E I290 F-31 to 320 S 86° 06' 42.16" E Dist 263.5478

Point 320 N 1,898,032.3932 E 1,169,552.9242 Sta 1196+00.50

Course from 320 to PC E I290 F-32 S 87° 07' 26.03" E Dist 206.0709

Curve Data

Curve E I290 F-32
 P.I. Station = 1200+44.28 N 1,898,010.1257 E 1,169,996.1494
 Delta = 4° 55' 46.24" (LT)
 Degree = 1° 02' 15.00"
 Tangent = 237.7133
 Length = 475.1332
 Radius = 5,522.4800
 External = 5.1138
 Long Chord = 474.9867
 Mid. Ord. = 5.1090
 P.C. Station = 1198+06.57 N 1,898,022.0533 E 1,169,758.7355
 P.T. Station = 1202+81.70 N 1,898,018.6432 E 1,170,233.7100
 C.C. = N 87° 07' 26.03" E
 Back = S 87° 07' 26.03" E
 Ahead = N 87° 56' 47.73" E
 Chord Bear = S 89° 35' 19.15" E

Course from PT E I290 F-32 to PC E I290 F-33 N 87° 56' 47.73" E Dist 944.7992

Curve Data

Curve E I290 F-33
 P.I. Station = 1214+22.53 N 1,898,059.5203 E 1,171,373.8060
 Delta = 7° 27' 30.96" (RT)
 Degree = 1° 54' 18.39"
 Tangent = 196.0294
 Length = 391.5050
 Radius = 3,007.4800
 External = 6.3819
 Long Chord = 391.2287
 Mid. Ord. = 6.3684
 P.C. Station = 1212+26.50 N 1,898,052.4964 E 1,171,177.9025
 P.T. Station = 1216+18.01 N 1,898,041.0547 E 1,171,568.9638
 C.C. = N 87° 56' 47.73" E
 Back = N 87° 56' 47.73" E
 Ahead = S 84° 35' 41.32" E
 Chord Bear = S 88° 19' 26.80" E

Course from PT E I290 F-33 to PC E I290 F-34 S 84° 35' 41.32" E Dist 338.5168

Curve Data

Curve E I290 F-34
 P.I. Station = 1220+85.25 N 1,897,997.0410 E 1,172,034.1303
 Delta = 6° 44' 20.14" (LT)
 Degree = 2° 37' 13.95"
 Tangent = 128.7273
 Length = 257.1578
 Radius = 2,186.4100
 External = 3.7862
 Long Chord = 257.0096
 Mid. Ord. = 3.7797
 P.C. Station = 1219+56.53 N 1,898,009.1669 E 1,171,905.9754
 P.T. Station = 1222+13.68 N 1,898,000.0372 E 1,172,162.8228
 C.C. = N 84° 35' 41.32" E
 Back = S 84° 35' 41.32" E
 Ahead = N 88° 39' 58.54" E
 Chord Bear = S 87° 57' 51.39" E

Course from PT E I290 F-34 to PC E I290 F-35 N 88° 39' 58.54" E Dist 847.2847

FILE NAME =	DESIGNED - CAG	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS: NO.
...xp\in_arc_c3_298_ML_Data_exalign_28.dgn	DRAWN - DMS	REVISED -			290 (2828B,D, ETC., 3031,1RS-6	COOK	185 35			
USER NAME = tblank	CHECKED - CAR	REVISED -			CONTRACT NO. 60653					
DATE = 11/12/2009	DATE - 10/16/09	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
			SCALE: N.T.S.		SHEET NO. 20 OF 33 SHEETS	STA.	TO STA.			