

I-290 WB

Curve Data

Curve E I290 F-22
 P.I. Station = 1044+95.40 N 1,897,388.1375 E 1,154,509.4509
 Delta = 10° 01' 23.80" (LT)
 Degree = 1° 30' 28.02"
 Tangent = 333.2348
 Length = 664.7689
 Radius = 3,800.0000
 External = 14.5833
 Long Chord = 663.9216
 Mid. Ord. = 14.5275
 P.C. Station = 1041+62.16 N 1,897,380.2149 E 1,154,176.3103
 P.T. Station = 1048+26.93 N 1,897,453.9217 E 1,154,836.1278
 C.C. = N 1,901,179.1408 E 1,154,085.9662
 Back = N 88° 38' 15.64" E
 Ahead = N 78° 36' 51.84" E
 Chord Bear = N 83° 37' 33.74" E

Course from PT E I290 F-22 to PC E I290 F-23 N 78° 36' 51.84" E Dist 1,726.0600

Curve Data

Curve E I290 F-23
 P.I. Station = 1070+43.69 N 1,897,891.5336 E 1,157,009.2603
 Delta = 9° 45' 19.57" (RT)
 Degree = 0° 59' 47.21"
 Tangent = 490.6964
 Length = 979.0208
 Radius = 5,750.0000
 External = 20.8997
 Long Chord = 977.8386
 Mid. Ord. = 20.8240
 P.C. Station = 1065+52.99 N 1,897,794.6648 E 1,156,528.2204
 P.T. Station = 1075+32.01 N 1,897,905.4929 E 1,157,499.7581
 C.C. = N 1,892,157.8201 E 1,157,663.3333
 Back = N 78° 36' 51.84" E
 Ahead = N 88° 22' 11.41" E
 Chord Bear = N 83° 29' 31.63" E

Curve Data

Curve E I290 F-24
 P.I. Station = 1075+90.74 N 1,897,907.1635 E 1,157,558.4586
 Delta = 0° 27' 57.11" (LT)
 Degree = 0° 23' 47.96"
 Tangent = 58.7243
 Length = 117.4480
 Radius = 14,444.7008
 External = 0.1194
 Long Chord = 117.4476
 Mid. Ord. = 0.1194
 P.C. Station = 1075+32.01 N 1,897,905.4929 E 1,157,499.7581
 P.T. Station = 1076+49.46 N 1,897,909.3113 E 1,157,617.1436
 C.C. = N 1,912,344.3476 E 1,157,088.8371
 Back = N 88° 22' 11.41" E
 Ahead = N 87° 54' 14.30" E
 Chord Bear = N 88° 08' 12.86" E

Course from PT E I290 F-24 to 313 N 88° 44' 27.48" E Dist 211.8864

Point 313 N 1,897,913.9670 E 1,157,828.9789 Sta 1078+61.35

Course from 313 to 314 N 88° 44' 27.42" E Dist 1,226.1517

Point 314 N 1,897,940.9089 E 1,159,054.8346 Sta 1090+87.50

Course from 314 to 315 N 88° 39' 57.77" E Dist 222.3506

Point 315 N 1,897,946.0852 E 1,159,277.1249 Sta 1093+09.85

Course from 315 to 316 N 88° 39' 57.77" E Dist 1,138.6686

Point 316 N 1,897,972.5932 E 1,160,415.4849 Sta 1104+48.52

I-290 WB

Course from 316 to 317 N 89° 03' 40.52" E Dist 757.0139

Point 317 N 1,897,984.9957 E 1,161,172.3972 Sta 1112+05.53

Course from 317 to 318 N 89° 03' 40.52" E Dist 657.8257

Point 318 N 1,897,995.7731 E 1,161,830.1346 Sta 1118+63.36

Course from 318 to 319 N 89° 03' 40.52" E Dist 1,261.5333

Point 319 N 1,898,016.4414 E 1,163,091.4987 Sta 1131+24.89

Course from 319 to PC E I290 F-25 N 88° 24' 21.11" E Dist 1,440.1352

Curve Data

Curve E I290 F-25
 P.I. Station = 1147+39.83 N 1,898,062.8665 E 1,164,705.7672
 Delta = 2° 51' 29.02" (LT)
 Degree = 0° 49' 03.59"
 Tangent = 174.8065
 Length = 349.5405
 Radius = 7,007.2647
 External = 2.1801
 Long Chord = 349.5042
 Mid. Ord. = 2.1794
 P.C. Station = 1145+65.03 N 1,898,056.5050 E 1,164,531.0765
 P.T. Station = 1149+14.57 N 1,898,077.9305 E 1,164,879.9234
 C.C. = N 1,905,059.1282 E 1,164,276.0718
 Back = N 87° 54' 52.06" E
 Ahead = N 85° 03' 23.04" E
 Chord Bear = N 86° 29' 07.55" E

Curve Data

Curve E I290 F-26
 P.I. Station = 1149+82.68 N 1,898,082.2081 E 1,164,947.9015
 Delta = 0° 53' 37.49" (RT)
 Degree = 0° 39' 21.94"
 Tangent = 68.1126
 Length = 136.2223
 Radius = 8,732.8581
 External = 0.2656
 Long Chord = 136.2210
 Mid. Ord. = 0.2656
 P.C. Station = 1149+14.57 N 1,898,077.9305 E 1,164,879.9234
 P.T. Station = 1150+50.79 N 1,898,085.4248 E 1,165,015.9380
 C.C. = N 1,889,362.3110 E 1,165,428.3642
 Back = N 86° 23' 57.63" E
 Ahead = N 87° 17' 35.12" E
 Chord Bear = N 86° 50' 46.37" E

Curve Data

Curve E I290 F-27
 P.I. Station = 1150+85.05 N 1,898,087.0430 E 1,165,050.1648
 Delta = 0° 44' 41.27" (RT)
 Degree = 1° 05' 12.61"
 Tangent = 34.2650
 Length = 68.5291
 Radius = 5,271.8008
 External = 0.1114
 Long Chord = 68.5286
 Mid. Ord. = 0.1114
 P.C. Station = 1150+50.79 N 1,898,085.4248 E 1,165,015.9380
 P.T. Station = 1151+19.32 N 1,898,088.2162 E 1,165,084.4098
 C.C. = N 1,892,819.5064 E 1,165,264.9091
 Back = N 87° 17' 35.12" E
 Ahead = N 88° 02' 16.39" E
 Chord Bear = N 87° 39' 55.76" E

Course from PT E I290 F-27 to PC E I290 F-28 N 88° 19' 50.55" E Dist 97.0560

FILE NAME =	DESIGNED - CAG	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in_abc_c3_290_ml_date_align_19.dgn	DRAWN - DMS	REVISED -				290	(28288,D, ETC., 3031,1RS-6	COOK	185	34
USER NAME = tblank	CHECKED - CAR	REVISED -				CONTRACT NO. 60653				
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			SCALE: N.T.S.	SHEET NO. 19 OF 33 SHEETS	STA. TO STA.					