

I-290

Curve Data

Curve E I290 A-10
 P.I. Station 343+37.03 N 1,909,348.4062 E 1,095,176.4681
 Delta = 18° 46' 03.76" (RT)
 Degree = 1° 30' 28.02"
 Tangent = 627.9859
 Length = 1,244.7218
 Radius = 3,800.0000
 External = 51.5408
 Long Chord = 1,239.1646
 Mid. Ord. = 50.8511
 P.C. Station 337+09.04 N 1,909,608.0042 E 1,094,604.6507
 P.T. Station 349+53.76 N 1,908,918.6387 E 1,095,634.3613
 C.C. N 1,906,147.8850 E 1,093,033.7990
 Back = S 65° 34' 57.13" E
 Ahead = S 46° 48' 53.36" E
 Chord Bear = S 56° 11' 55.24" E

Course from PT E I290 A-10 to PC E I290 A-11 S 46° 48' 53.36" E Dist 128.1003

Curve Data

Curve E I290 A-11
 P.I. Station 351+44.66 N 1,908,787.9984 E 1,095,773.5512
 Delta = 5° 45' 06.19" (RT)
 Degree = 4° 35' 01.18"
 Tangent = 62.7943
 Length = 125.4830
 Radius = 1,250.0000
 External = 1.5763
 Long Chord = 125.4303
 Mid. Ord. = 1.5743
 P.C. Station 350+81.86 N 1,908,830.9722 E 1,095,727.7651
 P.T. Station 352+07.35 N 1,908,740.6523 E 1,095,814.8001
 C.C. N 1,907,919.5400 E 1,094,872.3170
 Back = S 46° 48' 53.36" E
 Ahead = S 41° 03' 47.18" E
 Chord Bear = S 43° 56' 20.27" E

Course from PT E I290 A-11 to PC E I290 A-12 S 41° 03' 47.18" E Dist 187.6504

Curve Data

Curve E I290 A-12
 P.I. Station 364+79.93 N 1,907,781.1413 E 1,096,650.7475
 Delta = 41° 01' 23.33" (RT)
 Degree = 1° 58' 32.58"
 Tangent = 1,084.9333
 Length = 2,076.3681
 Radius = 2,900.0000
 External = 196.3011
 Long Chord = 2,032.3002
 Mid. Ord. = 183.8559
 P.C. Station 353+95.00 N 1,908,599.1664 E 1,095,938.0658
 P.T. Station 374+71.37 N 1,906,696.2083 E 1,096,651.5041
 C.C. N 1,906,694.1859 E 1,093,751.5048
 Back = S 41° 03' 47.18" E
 Ahead = S 0° 02' 23.85" E
 Chord Bear = S 20° 33' 05.51" E

Course from PT E I290 A-12 to 53 S 0° 02' 23.85" E Dist 2,603.1794

Point 53 N 1,904,093.0295 E 1,096,653.3195 Sta 400+74.54

Course from 53 to 54 S 0° 08' 03.62" E Dist 2,705.3980

Point 54 N 1,901,387.6389 E 1,096,659.6627 Sta 427+79.94

Course from 54 to PC E I290 A-13 S 0° 21' 23.18" E Dist 1,629.8596

I-290

Curve Data

Curve E I290 A-13
 P.I. Station 460+56.02 N 1,898,111.6264 E 1,096,680.0431
 Delta = 66° 06' 08.52" (LT)
 Degree = 2° 15' 52.76"
 Tangent = 1,646.2164
 Length = 2,918.8710
 Radius = 2,530.0000
 External = 488.4314
 Long Chord = 2,759.6634
 Mid. Ord. = 409.3953
 P.C. Station 444+09.80 N 1,899,757.8109 E 1,096,669.8020
 P.T. Station 473+28.67 N 1,897,454.1139 E 1,098,189.2500
 C.C. N 1,899,773.5499 E 1,099,199.7531
 Back = S 0° 21' 23.18" E
 Ahead = S 66° 27' 31.70" E
 Chord Bear = S 33° 24' 27.44" E

Course from PT E I290 A-13 to 55 S 66° 27' 31.70" E Dist 104.9809

Point 55 N 1,897,412.1837 E 1,098,285.4937 Sta 474+33.65

Course from 55 to PC E I290 A-14 S 66° 27' 31.70" E Dist 620.3060

Curve Data

Curve E I290 A-14
 P.I. Station 481+01.60 N 1,897,145.4021 E 1,098,897.8449
 Delta = 0° 52' 50.08" (LT)
 Degree = 0° 55' 27.47"
 Tangent = 47.6359
 Length = 95.2700
 Radius = 6,198.8400
 External = 0.1830
 Long Chord = 95.2691
 Mid. Ord. = 0.1830
 P.C. Station 480+53.96 N 1,897,164.4283 E 1,098,854.1736
 P.T. Station 481+49.23 N 1,897,127.0493 E 1,098,941.8035
 C.C. N 1,902,847.3583 E 1,101,330.0418
 Back = S 66° 27' 31.70" E
 Ahead = S 67° 20' 21.78" E
 Chord Bear = S 66° 53' 56.74" E

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|--|-----------------|-----------|----------------|---|--|---------------------------|--------------|---------------------|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME = | DESIGNED - AJP | REVISED - | benesch | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ALIGNMENT PLAN I-290 CURVE DATA | | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ...\\expln_abc\c4_290_ml_data\exalign_45.dgn | DRAWN - TMB | REVISED - | | | 290 | 2009-0998R | COOK/DUPAGE | 309 | 25 | | | | |
| USER NAME = tblank | CHECKED - JMM | REVISED - | | | CONTRACT NO. 60157 | | | | | | | | |
| PLOT DATE = 11/13/2009 | DATE - 10/16/09 | REVISED - | | | SCALE: N.T.S. | SHEET NO. 11 OF 26 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | |