

I-290

Curve Data

Curve E I290 A-1
P.I. Station 7+55.58 N 1,927,565.3571 E 1,068,109.2665
Delta = 39°46' 10.88" (LT)
Degree = 2° 44' 33.85"
Tangent = 755.5825
Length = 1,450.0000
Radius = 2,089.0000
External = 132.4468
Long Chord = 1,421.0666
Mid. Ord. = 124.5501
P.C. Station 0+00.00 N 1,928,273.1956 E 1,067,844.9378
P.T. Station 14+50.00 N 1,927,190.3889 E 1,068,765.2420
C.C. 1,929,003.9997 E 1,069,801.9371
Back = S 20° 28' 37.87" E
Ahead = S 60° 14' 48.75" E
Chord Bear = S 40° 21' 43.31" E

Course from PT E I290 A-1 to PC E I290 A-2 S 60° 14' 48.75" E Dist 595.6299

Curve Data

Curve E I290 A-2
P.I. Station 20+90.05 N 1,926,872.7548 E 1,069,320.9159
Delta = 0° 29' 34.80" (RT)
Degree = 0° 33' 17.72"
Tangent = 44.4208
Length = 88.8410
Radius = 10,325.0000
External = 0.0956
Long Chord = 88.8407
Mid. Ord. = 0.0956
P.C. Station 20+45.63 N 1,926,894.7993 E 1,069,282.3510
P.T. Station 21+34.47 N 1,926,850.3794 E 1,069,359.2896
C.C. 1,917,930.9259 E 1,064,158.4269
Back = S 60° 14' 48.75" E
Ahead = S 59° 45' 13.96" E
Chord Bear = S 60° 00' 01.36" E

Course from PT E I290 A-2 to PC E I290 A-3 S 59° 45' 13.96" E Dist 9,542.3850

Curve Data

Curve E I290 A-3
P.I. Station 133+55.93 N 1,921,197.9571 E 1,079,053.1656
Delta = 32° 43' 06.91" (RT)
Degree = 1° 00' 06.03"
Tangent = 1,679.0725
Length = 3,266.3891
Radius = 5,720.0000
External = 241.3492
Long Chord = 3,222.1883
Mid. Ord. = 231.5780
P.C. Station 116+76.86 N 1,922,043.7320 E 1,077,602.6658
P.T. Station 149+43.24 N 1,919,702.3623 E 1,079,816.3699
C.C. 1,917,102.3979 E 1,074,721.4131
Back = S 59° 45' 13.96" E
Ahead = S 27° 02' 07.05" E
Chord Bear = S 43° 23' 40.50" E

Course from PT E I290 A-3 to PC E I290 A-4 S 27° 02' 07.05" E Dist 848.5422

I-290

Curve Data

Curve E I290 A-4
P.I. Station 181+64.83 N 1,916,832.8080 E 1,081,280.7080
Delta = 54° 46' 48.94" (LT)
Degree = 1° 15' 03.60"
Tangent = 2,373.0457
Length = 4,378.9193
Radius = 4,580.0000
External = 578.2697
Long Chord = 4,214.0291
Mid. Ord. = 513.4425
P.C. Station 157+91.79 N 1,918,946.5432 E 1,080,202.0656
P.T. Station 201+70.71 N 1,916,494.9806 E 1,083,629.5840
C.C. 1,921,028.3329 E 1,084,281.5940
Back = S 27° 02' 07.05" E
Ahead = S 81° 48' 55.99" E
Chord Bear = S 54° 25' 31.52" E

Course from PT E I290 A-4 to PC E I290 A-5 S 81° 48' 55.99" E Dist 2,452.7307

Curve Data

Curve E I290 A-5
P.I. Station 242+04.37 N 1,915,920.7470 E 1,087,622.1652
Delta = 40° 38' 00.05" (RT)
Degree = 1° 20' 30.56"
Tangent = 1,580.9337
Length = 3,028.2229
Radius = 4,270.0000
External = 283.2682
Long Chord = 2,965.1611
Mid. Ord. = 265.6455
P.C. Station 226+23.44 N 1,916,145.8092 E 1,086,057.3334
P.T. Station 256+51.66 N 1,914,730.9056 E 1,088,663.1401
C.C. 1,911,919.2995 E 1,085,449.4551
Back = S 81° 48' 55.99" E
Ahead = S 41° 10' 55.94" E
Chord Bear = S 61° 29' 55.96" E

Course from PT E I290 A-5 to PC E I290 A-6 S 41° 10' 55.94" E Dist 1,088.663.1401

Curve Data

Curve E I290 A-6
P.I. Station 261+34.65 N 1,914,367.3950 E 1,088,981.1701
Delta = 12° 54' 25.09" (RT)
Degree = 1° 20' 30.56"
Tangent = 482.9938
Length = 961.8991
Radius = 4,269.9999
External = 27.2297
Long Chord = 959.8666
Mid. Ord. = 27.0571
P.C. Station 256+51.66 N 1,914,730.9056 E 1,088,663.1401
P.T. Station 266+13.56 N 1,913,942.0310 E 1,089,209.9680
C.C. 1,911,919.2995 E 1,085,449.4551
Back = S 41° 10' 55.94" E
Ahead = S 28° 16' 30.85" E
Chord Bear = S 34° 43' 43.40" E

Course from PT E I290 A-6 to 51 S 28° 16' 30.85" E Dist 128.3696

Point 51 N 1,913,828.9782 E 1,089,270.7776 Sta 267+41.93

Course from 51 to PC E I290 A-7 S 27° 14' 51.70" E Dist 461.2079

I-290

Curve Data

Curve E I290 A-7
P.I. Station 283+87.63 N 1,912,365.8941 E 1,090,024.2409
Delta = 34°37' 31.23" (LT)
Degree = 1° 30' 28.02"
Tangent = 1,184.4901
Length = 2,296.4396
Radius = 3,800.0000
External = 180.3287
Long Chord = 2,261.6536
Mid. Ord. = 172.1589
P.C. Station 272+03.14 N 1,913,418.9479 E 1,089,481.9362
P.T. Station 294+99.58 N 1,911,807.4935 E 1,091,068.8488
C.C. 1,915,158.7328 E 1,092,860.2714
Back = S 27° 14' 51.70" E
Ahead = S 61° 52' 22.93" E
Chord Bear = S 44° 33' 37.31" E

Course from PT E I290 A-7 to PC E I290 A-8 S 61° 52' 22.93" E Dist 765.1205

Curve Data

Curve E I290 A-8
P.I. Station 306+73.69 N 1,911,253.9857 E 1,092,104.3037
Delta = 20° 09' 58.04" (RT)
Degree = 2° 29' 28.04"
Tangent = 408.9909
Length = 809.5200
Radius = 2,300.0000
External = 36.0808
Long Chord = 805.3480
Mid. Ord. = 35.5235
P.C. Station 302+64.70 N 1,911,446.7950 E 1,091,743.6125
P.T. Station 310+74.22 N 1,910,948.6503 E 1,092,376.4136
C.C. 1,909,418.4133 E 1,090,659.3305
Back = S 61° 52' 22.93" E
Ahead = S 41° 42' 24.89" E
Chord Bear = S 51° 47' 23.91" E

Course from PT E I290 A-8 to PC E I290 A-9 S 41° 42' 24.89" E Dist 338.5585

Curve Data

Curve E I290 A-9
P.I. Station 318+14.48 N 1,910,396.0026 E 1,092,868.9244
Delta = 23° 52' 32.24" (LT)
Degree = 3° 00' 56.04"
Tangent = 401.7025
Length = 791.7456
Radius = 1,900.0000
External = 42.0002
Long Chord = 786.0295
Mid. Ord. = 41.0919
P.C. Station 314+12.78 N 1,910,695.8968 E 1,092,601.6635
P.T. Station 322+04.52 N 1,910,229.9460 E 1,093,234.6977
C.C. 1,911,960.0057 E 1,094,020.1235
Back = S 41° 42' 24.89" E
Ahead = S 65° 34' 57.13" E
Chord Bear = S 53° 38' 41.01" E

Course from PT E I290 A-9 to 52 S 65° 34' 57.13" E Dist 931.4999

Point 52 N 1,909,844.8807 E 1,094,082.8821 Sta 331+36.02

Course from 52 to PC E I290 A-10 S 65° 34' 57.13" E Dist 573.0208

Table with 3 columns: FILE NAME, DESIGNED, REVISIONS. Includes details like '...expln_RBC.C1.290_ML_Data.exalign_44.dgn' and 'USER NAME: j_majewski'.

benesch

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN I-290 CURVE DATA

SCALE: N.T.S. SHEET NO. 36 OF 44 SHEETS STA. TO STA.

Table with 5 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Includes values like '22(1, 1-1, 2&3RS-7)', 'DUPAGE', '546', '61'.