

I-290

Point 60 N 1,895,487.9128 E 1,097,931.7608 Sta 468+04.46

Course from 60 to PC E.I290\_C-1 N 55° 58' 37.58" E Dist 1,349.9899

Curve Data

Curve E.I290\_C-1  
 P.I. Station = 484+23.14 N 1,896,393.6011 E 1,099,273.3424  
 Delta = 8° 04' 41.42" (RT)  
 Degree = 1° 30' 20.76"  
 Tangent = 268.6863  
 Length = 536.4821  
 Radius = 3,805.0894  
 External = 9.4745  
 Long Chord = 536.0379  
 Mid. Ord. = 9.4510  
 P.C. Station = 481+54.45 N 1,896,243.2647 E 1,099,050.6514  
 P.T. Station = 486+90.93 N 1,896,511.1524 E 1,099,514.9496  
 C.C. = N 1,893,089.5530 E 1,101,179.6907  
 Back = N 55° 58' 37.58" E  
 Ahead = N 64° 03' 19.00" E  
 Chord Bear = N 60° 00' 58.29" E

Curve Data

Curve E.I290\_C-2  
 P.I. Station = 509+61.83 N 1,897,504.6793 E 1,101,556.9795  
 Delta = 61° 17' 44.92" (RT)  
 Degree = 1° 29' 41.90"  
 Tangent = 2,270.8989  
 Length = 4,100.1287  
 Radius = 3,832.5632  
 External = 622.2682  
 Long Chord = 3,907.3818  
 Mid. Ord. = 535.3473  
 P.C. Station = 486+90.93 N 1,896,511.1524 E 1,099,514.9496  
 P.T. Station = 527+91.06 N 1,896,190.7710 E 1,103,409.1746  
 C.C. = N 1,893,064.8481 E 1,101,191.7106  
 Back = N 64° 03' 19.00" E  
 Ahead = S 54° 38' 56.08" E  
 Chord Bear = S 85° 17' 48.54" E

Course from PT E.I290\_C-2 to PC E.I290\_C-3 S 54° 38' 56.08" E Dist 113.3555

Curve Data

Curve E.I290\_C-3  
 P.I. Station = 542+15.96 N 1,895,366.3477 E 1,104,571.3507  
 Delta = 37° 59' 47.10" (LT)  
 Degree = 1° 30' 14.66"  
 Tangent = 1,311.5399  
 Length = 2,526.2351  
 Radius = 3,809.3752  
 External = 219.4554  
 Long Chord = 2,480.1973  
 Mid. Ord. = 207.5014  
 P.C. Station = 529+04.42 N 1,896,125.1852 E 1,103,501.6299  
 P.T. Station = 554+30.65 N 1,895,426.8796 E 1,105,881.4929  
 C.C. = N 1,899,232.1954 E 1,105,705.6777  
 Back = S 54° 38' 56.08" E  
 Ahead = N 87° 21' 16.82" E  
 Chord Bear = S 73° 38' 49.63" E

Course from PT E.I290\_C-3 to PC E.I290\_C-4 N 87° 21' 16.82" E Dist 1,153.6351

I-290

Curve Data

Curve E.I290\_C-4  
 P.I. Station = 570+47.15 N 1,895,501.4865 E 1,107,496.2716  
 Delta = 13° 38' 22.62" (LT)  
 Degree = 1° 28' 49.38"  
 Tangent = 462.8662  
 Length = 921.3564  
 Radius = 3,870.3310  
 External = 27.5796  
 Long Chord = 919.1824  
 Mid. Ord. = 27.3845  
 P.C. Station = 565+84.29 N 1,895,480.1237 E 1,107,033.8986  
 P.T. Station = 575+05.64 N 1,895,631.2809 E 1,107,940.5671  
 C.C. = N 1,899,346.3304 E 1,106,855.2701  
 Back = N 87° 21' 16.82" E  
 Ahead = N 73° 42' 54.19" E  
 Chord Bear = N 80° 32' 05.50" E

Course from PT E.I290\_C-4 to PC E.I290\_C-5 N 73° 42' 54.19" E Dist 169.6419

Curve Data

Curve E.I290\_C-5  
 P.I. Station = 581+37.80 N 1,895,808.5470 E 1,108,547.3614  
 Delta = 13° 50' 55.21" (RT)  
 Degree = 1° 30' 15.97"  
 Tangent = 462.5152  
 Length = 920.5226  
 Radius = 3,808.4566  
 External = 27.9821  
 Long Chord = 918.2835  
 Mid. Ord. = 27.7780  
 P.C. Station = 576+75.28 N 1,895,678.8510 E 1,108,103.4028  
 P.T. Station = 585+95.81 N 1,895,828.2077 E 1,109,009.4586  
 C.C. = N 1,892,023.1935 E 1,109,171.3493  
 Back = N 73° 42' 54.19" E  
 Ahead = N 87° 33' 49.41" E  
 Chord Bear = N 80° 38' 21.80" E

Course from PT E.I290\_C-5 to 61 N 87° 33' 49.41" E Dist 2,208.9483

Point 61 N 1,895,922.1061 E 1,111,216.4103 Sta 608+04.76

|  |                |           |                |   |   |                          |             |                        |                    |              |           |  |
|--|----------------|-----------|----------------|---|---|--------------------------|-------------|------------------------|--------------------|--------------|-----------|--|
| FILE NAME =                                | DESIGNED - AJP | REVISED - | <b>benesch</b> | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ALIGNMENT PLAN</b>                         |                          | F.A.T. RTE. | SECTION                | COUNTY             | TOTAL SHEETS | SHEET NO. |  |
| ...expln_ABC_C2_290_ML_Data_exalign_16.dgn | DRAWN - TMB    | REVISED - |                |   | <b>I-290 MAINLINE CURVE DATA</b>              |                          | 290         | (3435, ETC., 3838)RS-5 | COOK               | 264          | 34        |  |
| USER NAME = tblank                         | CHECKED - JMM  | REVISED - |                |   | SCALE: N.T.S.                                 | SHEET NO. 9 OF 22 SHEETS | STA.        | TO STA.                | CONTRACT NO. 60G52 |              |           |  |
| PLOT DATE = 1/25/2010                      | DATE - 1/25/10 | REVISED - |                |   | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                          |             |                        |                    |              |           |  |