

**RAMP E\_25TH\_A**

Curve Data  
 Curve E\_25TH\_A-1  
 P.I. Station 1+55.47 N 1,895,827.7084 E 1,110,315.1173  
 Delta = 6° 59' 49.33" (RT)  
 Degree = 2° 15' 11.08"  
 Tangent = 155.4705  
 Length = 310.5545  
 Radius = 2,543.0000  
 External = 4,7480  
 Long Chord = 310.3615  
 Mid. Ord. = 4,7392  
 P.C. Station 0+00.00 N 1,895,821.0997 E 1,110,159.7873  
 P.T. Station 3+10.55 N 1,895,815.3460 E 1,110,470.0955  
 C.C. N 1,893,280.3982 E 1,110,267.8858  
 Back = N 87° 33' 49.41" E  
 Ahead = S 85° 26' 21.27" E  
 Chord Bear = S 88° 56' 15.93" E

Course from PT E\_25TH\_A-1 to 1261 S 85° 26' 21.27" E Dist 140.3606

Point 1261 N 1,895,804.1851 E 1,110,610.0117 Sta 4+50.92

Course from 1261 to 1262 S 85° 44' 47.92" E Dist 83.9153

Point 1262 N 1,895,797.9613 E 1,110,693.6959 Sta 5+34.83

Course from 1262 to 1263 S 85° 08' 13.52" E Dist 84.4475

Point 1263 N 1,895,790.8025 E 1,110,777.8395 Sta 6+19.28

Course from 1263 to 1264 S 85° 28' 07.59" E Dist 46.3455

Point 1264 N 1,895,787.1411 E 1,110,824.0402 Sta 6+65.62

**RAMP E\_25TH\_B**

Point 1270 N 1,895,947.0653 E 1,110,294.2906 Sta 0+00.00  
 Course from 1270 to PC E\_25TH\_B-1 N 86° 37' 04.31" E Dist 88.9696

Curve Data  
 Curve E\_25TH\_B-1  
 P.I. Station 1+68.20 N 1,895,956.9881 E 1,110,462.1940  
 Delta = 8° 14' 20.91" (LT)  
 Degree = 5° 12' 31.35"  
 Tangent = 79.2267  
 Length = 158.1802  
 Radius = 1,100.0000  
 External = 2.8494  
 Long Chord = 158.0439  
 Mid. Ord. = 2.8421  
 P.C. Station 0+88.97 N 1,895,952.3141 E 1,110,383.1053  
 P.T. Station 2+47.15 N 1,895,972.9477 E 1,110,539.7965  
 C.C. N 1,897,050.3982 E 1,110,318.2106  
 Back = N 86° 37' 04.31" E  
 Ahead = N 78° 22' 43.40" E  
 Chord Bear = N 82° 29' 53.85" E

Curve Data  
 Curve E\_25TH\_B-2  
 P.I. Station 2+89.43 N 1,895,981.4651 E 1,110,581.2123  
 Delta = 0° 04' 34.43" (LT)  
 Degree = 0° 05' 24.52"  
 Tangent = 42.2825  
 Length = 84.5651  
 Radius = 63,559.0260  
 External = 0.0141  
 Long Chord = 84.5651  
 Mid. Ord. = 0.0141  
 P.C. Station 2+47.15 N 1,895,972.9477 E 1,110,539.7965  
 P.T. Station 3+31.71 N 1,895,990.0377 E 1,110,622.6167  
 C.C. N 1,958,229.0457 E 1,097,736.3580  
 Back = N 78° 22' 43.40" E  
 Ahead = N 78° 18' 08.96" E  
 Chord Bear = N 78° 20' 26.18" E

Course from PT E\_25TH\_B-2 to 1271 N 77° 22' 44.74" E Dist 199.0278

Point 1271 N 1,896,033.5251 E 1,110,816.8354 Sta 5+30.74

**RAMP E\_25TH\_C**

Point 1280 N 1,895,902.1657 E 1,112,174.1276 Sta 0+00.00  
 Course from 1280 to PC E\_25TH\_C-1 S 85° 46' 00.46" W Dist 180.2220

Curve Data  
 Curve E\_25TH\_C-1  
 P.I. Station 3+16.64 N 1,895,845.1610 E 1,111,865.1679  
 Delta = 96° 53' 57.58" (LT)  
 Degree = 47° 23' 18.20"  
 Tangent = 136.4186  
 Length = 204.4790  
 Radius = 120.9068  
 External = 61.3800  
 Long Chord = 180.9668  
 Mid. Ord. = 40.7120  
 P.C. Station 1+80.22 N 1,895,888.8624 E 1,111,994.3972  
 P.T. Station 3+84.70 N 1,895,722.1171 E 1,111,924.0766  
 C.C. N 1,895,774.3274 E 1,112,033.1295  
 Back = S 71° 18' 57.66" W  
 Ahead = S 25° 34' 59.92" E  
 Chord Bear = S 22° 51' 58.87" W

Curve Data  
 Curve E\_25TH\_C-2  
 P.I. Station 5+35.07 N 1,895,593.3338 E 1,112,001.7114  
 Delta = 69° 45' 05.56" (LT)  
 Degree = 26° 33' 23.48"  
 Tangent = 150.3739  
 Length = 262.6532  
 Radius = 215.7503  
 External = 47.2335  
 Long Chord = 246.7316  
 Mid. Ord. = 38.7501  
 P.C. Station 3+84.70 N 1,895,722.1171 E 1,111,924.0766  
 P.T. Station 6+47.35 N 1,895,621.6000 E 1,112,149.4048  
 C.C. N 1,895,833.5044 E 1,112,108.8496  
 Back = S 31° 04' 58.66" E  
 Ahead = N 79° 09' 55.78" E  
 Chord Bear = S 65° 57' 31.44" E

Curve Data  
 Curve E\_25TH\_C-3  
 P.I. Station 7+01.28 N 1,895,631.7366 E 1,112,202.3694  
 Delta = 39° 53' 57.41" (LT)  
 Degree = 38° 33' 56.97"  
 Tangent = 53.9258  
 Length = 103.4576  
 Radius = 148.5662  
 External = 9.4841  
 Long Chord = 101.3798  
 Mid. Ord. = 8.9150  
 P.C. Station 6+47.35 N 1,895,621.6000 E 1,112,149.4048  
 P.T. Station 7+50.81 N 1,895,673.4867 E 1,112,236.5004  
 C.C. N 1,895,767.5179 E 1,112,121.4784  
 Back = N 79° 09' 55.78" E  
 Ahead = N 39° 15' 58.37" E  
 Chord Bear = N 59° 12' 57.07" E

Curve Data  
 Curve E\_25TH\_C-4  
 P.I. Station 8+33.60 N 1,895,737.3649 E 1,112,289.1566  
 Delta = 40° 21' 30.30" (LT)  
 Degree = 25° 26' 11.09"  
 Tangent = 82.7834  
 Length = 158.6640  
 Radius = 225.2510  
 External = 14.7305  
 Long Chord = 155.4041  
 Mid. Ord. = 13.8263  
 P.C. Station 7+50.81 N 1,895,673.4867 E 1,112,236.5004  
 P.T. Station 9+09.48 N 1,895,820.1390 E 1,112,287.9158  
 C.C. N 1,895,816.7627 E 1,112,062.6901  
 Back = N 39° 29' 58.44" E  
 Ahead = N 0° 51' 31.86" W  
 Chord Bear = N 19° 19' 13.29" E

FILE NAME =	DESIGNED - AJP	REVISED -
... \expln\ABC_C2_290_R_Data\align_20.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 RAMP CURVE DATA**

SCALE: N.T.S. SHEET NO. 19 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3435, ETC., 3838RS-5)	COOK	264	44
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	