

RAMP E_1294_C

Point 850 N 1,897,430.5399 E 1,098,354.8341 Sta 0+00.00

Course from 850 to 851 N 60° 28' 25.52" W Dist 174.7857

Point 851 N 1,897,516.6782 E 1,098,202.7478 Sta 1+74.79

Course from 851 to PC E 1294 C-1 N 58° 01' 32.77" W Dist 110.0100

Curve Data

Curve E 1294 C-1

P.I. Station = 3+66.87 N 1,897,619.1420 E 1,098,040.2809
 Delta = 21° 12' 17.94" (RT)
 Degree = 13° 04' 05.13"
 Tangent = 82.0716
 Length = 162.2653
 Radius = 438.4403
 External = 7.6154
 Long Chord = 161.3409
 Mid. Ord. = 7.4853
 P.C. Station = 2+84.80 N 1,897,574.9327 E 1,098,109.4278
 P.T. Station = 4+47.06 N 1,897,685.3688 E 1,097,991.8066
 C.C. = N 1,897,944.3267 E 1,098,345.6014
 Back = N 57° 24' 25.27" W
 Ahead = N 36° 12' 07.33" W
 Chord Bear = N 46° 48' 16.30" W

Curve Data

Curve E 1294 C-2

P.I. Station = 6+63.43 N 1,897,848.1160 E 1,097,849.2201
 Delta = 33° 20' 42.61" (RT)
 Degree = 7° 55' 50.07"
 Tangent = 216.3737
 Length = 420.4634
 Radius = 722.4668
 External = 31.7055
 Long Chord = 414.5546
 Mid. Ord. = 30.3726
 P.C. Station = 4+47.06 N 1,897,685.3688 E 1,097,991.8066
 P.T. Station = 8+67.52 N 1,898,062.4480 E 1,097,819.5662
 C.C. = N 1,898,161.4619 E 1,098,535.2159
 Back = N 41° 13' 20.39" W
 Ahead = N 7° 52' 37.77" W
 Chord Bear = N 24° 32' 59.08" W

Curve Data

Curve E 1294 C-3

P.I. Station = 13+75.77 N 1,898,567.2548 E 1,097,760.5595
 Delta = 41° 42' 38.53" (LT)
 Degree = 7° 59' 59.72"
 Tangent = 272.8525
 Length = 521.3889
 Radius = 716.2042
 External = 50.2141
 Long Chord = 509.9516
 Mid. Ord. = 46.9241
 P.C. Station = 11+02.92 N 1,898,296.3124 E 1,097,792.7880
 P.T. Station = 16+24.31 N 1,898,748.0732 E 1,097,556.2236
 C.C. = N 1,898,211.7165 E 1,097,081.5974
 Back = N 6° 47' 00.39" W
 Ahead = N 48° 29' 38.91" W
 Chord Bear = N 27° 38' 19.65" W

Course from PT E 1294 C-3 to PC E 1294 C-4 N 46° 06' 30.59" W Dist 243.8950

RAMP E_1294_C

Curve Data

Curve E 1294 C-4

P.I. Station = 20+12.66 N 1,899,023.5089 E 1,097,282.6904
 Delta = 13° 53' 15.39" (RT)
 Degree = 4° 49' 49.76"
 Tangent = 144.4575
 Length = 287.4991
 Radius = 1,186.1282
 External = 8.7643
 Long Chord = 286.7959
 Mid. Ord. = 8.7000
 P.C. Station = 18+68.20 N 1,898,917.1644 E 1,097,380.4596
 P.T. Station = 21+55.70 N 1,899,150.2112 E 1,097,213.3038
 C.C. = N 1,899,719.9389 E 1,098,253.6454
 Back = N 42° 35' 39.40" W
 Ahead = N 28° 42' 24.01" W
 Chord Bear = N 35° 39' 01.70" W

Curve Data

Curve E 1294 C-5

P.I. Station = 23+51.85 N 1,899,322.2486 E 1,097,119.0901
 Delta = 23° 04' 23.32" (RT)
 Degree = 5° 57' 44.76"
 Tangent = 196.1456
 Length = 386.9753
 Radius = 960.9464
 External = 19.8141
 Long Chord = 384.3658
 Mid. Ord. = 19.4138
 P.C. Station = 21+55.70 N 1,899,150.2112 E 1,097,213.3038
 P.T. Station = 25+42.68 N 1,899,517.4468 E 1,097,099.8354
 C.C. = N 1,899,611.7783 E 1,098,056.1405
 Back = N 28° 42' 24.01" W
 Ahead = N 5° 38' 00.69" W
 Chord Bear = N 17° 10' 12.35" W

RAMP E_1294_D

Curve Data

Curve E 1294 D-1

P.I. Station = 1+22.65 N 1,898,456.0485 E 1,096,945.8156
 Delta = 18° 43' 41.78" (LT)
 Degree = 7° 42' 11.78"
 Tangent = 122.6545
 Length = 243.1210
 Radius = 743.7849
 External = 10.0454
 Long Chord = 242.0401
 Mid. Ord. = 9.9115
 P.C. Station = 0+00.00 N 1,898,357.9559 E 1,097,019.4497
 P.T. Station = 2+43.12 N 1,898,525.3047 E 1,096,844.5846
 C.C. = N 1,897,911.4336 E 1,096,424.6105
 Back = N 36° 53' 38.78" W
 Ahead = N 55° 37' 20.57" W
 Chord Bear = N 46° 15' 29.67" W

Course from PT E 1294 D-1 to PC E 1294 D-2 N 53° 19' 30.89" W Dist 159.5177

Curve Data

Curve E 1294 D-2

P.I. Station = 7+65.71 N 1,898,822.0848 E 1,096,414.6295
 Delta = 95° 10' 51.63" (RT)
 Degree = 17° 16' 36.12"
 Tangent = 363.0670
 Length = 550.9212
 Radius = 331.6361
 External = 160.0957
 Long Chord = 489.7228
 Mid. Ord. = 107.9725
 P.C. Station = 4+02.64 N 1,898,620.5801 E 1,096,716.6453
 P.T. Station = 9+53.56 N 1,899,104.6703 E 1,096,642.5837
 C.C. = N 1,898,896.4501 E 1,096,900.7056
 Back = N 56° 17' 19.70" W
 Ahead = N 38° 53' 31.93" E
 Chord Bear = N 8° 41' 53.89" W

Course from PT E 1294 D-2 to PC E 1294 D-3 N 37° 54' 29.97" E Dist 176.7089

Curve Data

Curve E 1294 D-3

P.I. Station = 13+30.95 N 1,899,402.4305 E 1,096,874.4533
 Delta = 36° 59' 14.10" (LT)
 Degree = 9° 32' 57.47"
 Tangent = 200.6830
 Length = 387.3296
 Radius = 600.0000
 External = 32.6718
 Long Chord = 380.6390
 Mid. Ord. = 30.9846
 P.C. Station = 11+30.27 N 1,899,244.0927 E 1,096,751.1537
 P.T. Station = 15+17.60 N 1,899,603.0875 E 1,096,877.6793
 C.C. = N 1,899,612.7326 E 1,096,277.7568
 Back = N 37° 54' 29.97" E
 Ahead = N 0° 55' 15.87" E
 Chord Bear = N 19° 24' 52.92" E

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.
...\\exp\in ARC_C4_290_R_Data_exel\ign_68.dgn	DRAWN - TMB	REVISED -			290	2009-0998R	COOK/DUPAGE	309	40		
USER NAME = tb:ank	CHECKED - JMM	REVISED -			CONTRACT NO. 60157						
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 26 OF 26 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	