

RAMP E_25TH_G

Point 1320 N 1,895,914.4773 E 1,112,382.8372 Sta 0+00.00

Course from 1320 to PC E_25TH_G-1 S 87° 44' 54.47" E Dist 31.4109

Curve Data

Curve E_25TH_G-1
P.I. Station 1+15.69 N 1,895,909.7461 E 1,112,498.4329
Delta = 21° 38' 40.69" (RT)
Degree = 12° 59' 44.06"
Tangent = 84.2817
Length = 166.5539
Radius = 440.8869
External = 7.9835
Long Chord = 165.5653
Mid. Ord. = 7.8415
P.C. Station 0+31.41 N 1,895,913.2432 E 1,112,414.2238
P.T. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
C.C. N 1,895,472.7360 E 1,112,395.9300
Back = S 87° 37' 18.94" E
Ahead = S 65° 58' 38.26" E
Chord Bear = S 76° 47' 58.60" E

Curve Data

Curve E_25TH_G-2
P.I. Station 2+72.08 N 1,895,846.7446 E 1,112,643.7462
Delta = 49° 40' 44.91" (RT)
Degree = 35° 47' 15.38"
Tangent = 74.1106
Length = 138.8166
Radius = 160.0995
External = 16.3211
Long Chord = 134.5089
Mid. Ord. = 14.8112
P.C. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
P.T. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
C.C. N 1,895,727.8195 E 1,112,513.4348
Back = S 67° 13' 25.77" E
Ahead = S 17° 32' 40.86" E
Chord Bear = S 42° 23' 03.32" E

Curve Data

Curve E_25TH_G-3
P.I. Station 3+83.73 N 1,895,731.0364 E 1,112,679.3365
Delta = 43° 59' 44.79" (RT)
Degree = 49° 17' 49.03"
Tangent = 46.9533
Length = 89.2464
Radius = 116.2258
External = 9.1259
Long Chord = 87.0700
Mid. Ord. = 8.4615
P.C. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
P.T. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
C.C. N 1,895,743.2839 E 1,112,554.5845
Back = S 16° 23' 27.02" E
Ahead = S 27° 36' 17.77" W
Chord Bear = S 5° 36' 25.38" W

Curve Data

Curve E_25TH_G-4
P.I. Station 4+87.60 N 1,895,635.7879 E 1,112,627.3397
Delta = 42° 42' 50.56" (RT)
Degree = 36° 23' 03.85"
Tangent = 61.5770
Length = 117.3966
Radius = 157.4735
External = 11.6112
Long Chord = 114.6968
Mid. Ord. = 10.8138
P.C. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
P.T. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
C.C. N 1,895,766.7620 E 1,112,520.4033
Back = S 29° 24' 44.57" W
Ahead = S 72° 07' 35.13" W
Chord Bear = S 50° 46' 09.85" W

RAMP E_25TH_G

Curve Data

Curve E_25TH_G-5
P.I. Station 5+77.13 N 1,895,605.8859 E 1,112,536.8780
Delta = 13° 01' 45.64" (RT)
Degree = 19° 24' 47.45"
Tangent = 33.7034
Length = 67.1160
Radius = 295.1385
External = 1.9181
Long Chord = 66.9714
Mid. Ord. = 1.9058
P.C. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
P.T. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
C.C. N 1,895,895.8564 E 1,112,472.3818
Back = S 70° 56' 44.02" W
Ahead = S 83° 58' 29.66" W
Chord Bear = S 77° 27' 36.84" W

Curve Data

Curve E_25TH_G-6
P.I. Station 7+04.63 N 1,895,586.5495 E 1,112,410.6053
Delta = 71° 25' 33.67" (RT)
Degree = 43° 46' 39.35"
Tangent = 94.0913
Length = 163.1566
Radius = 130.8792
External = 30.3118
Long Chord = 152.7951
Mid. Ord. = 24.6117
P.C. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
P.T. Station 7+73.70 N 1,895,669.4842 E 1,112,366.0842
C.C. N 1,895,731.3693 E 1,112,481.3850
Back = S 80° 20' 01.52" W
Ahead = N 28° 14' 24.81" W
Chord Bear = N 63° 57' 11.64" W

Curve Data

Curve E_25TH_G-7
P.I. Station 8+11.27 N 1,895,705.4149 E 1,112,355.2494
Delta = 9° 29' 21.36" (RT)
Degree = 12° 39' 27.97"
Tangent = 37.5699
Length = 74.9679
Radius = 452.6530
External = 1.5565
Long Chord = 74.8823
Mid. Ord. = 1.5511
P.C. Station 7+73.70 N 1,895,669.4412 E 1,112,366.0842
P.T. Station 8+48.66 N 1,895,742.6826 E 1,112,350.4936
C.C. N 1,895,799.9815 E 1,112,799.5055
Back = N 16° 45' 41.56" W
Ahead = N 7° 16' 20.20" W
Chord Bear = N 12° 01' 00.88" W

Course from PT E_25TH_G-7 to 1321 N 8° 19' 37.44" W Dist 71.1656

Point 1321 N 1,895,813.0979 E 1,112,340.1872 Sta 9+19.83

RAMP E_25TH_H

Point 1330 N 1,895,943.2235 E 1,113,067.0833 Sta 0+00.00

Course from 1330 to PC E_25TH_H-1 S 83° 37' 03.65" W Dist 34.0000

Curve Data

Curve E_25TH_H-1
P.I. Station 1+47.50 N 1,895,921.5611 E 1,112,921.2101
Delta = 47° 11' 33.91" (LT)
Degree = 22° 03' 01.61"
Tangent = 113.5015
Length = 214.0218
Radius = 259.8395
External = 23.7080
Long Chord = 208.0229
Mid. Ord. = 21.7257
P.C. Station 0+34.00 N 1,895,939.4440 E 1,113,033.2940
P.T. Station 2+48.02 N 1,895,827.1794 E 1,112,858.1650
C.C. N 1,895,682.8498 E 1,113,074.2334
Back = S 80° 56' 05.70" W
Ahead = S 33° 44' 31.79" W
Chord Bear = S 57° 20' 18.74" W

Curve Data

Curve E_25TH_H-2
P.I. Station 4+40.78 N 1,895,664.8380 E 1,112,754.2300
Delta = 20° 03' 18.60" (RT)
Degree = 8° 00' 48.22"
Tangent = 126.4287
Length = 250.2705
Radius = 715.0000
External = 11.0917
Long Chord = 248.9948
Mid. Ord. = 10.9223
P.C. Station 3+14.36 N 1,895,771.3144 E 1,112,822.3988
P.T. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
C.C. N 1,896,156.8339 E 1,112,220.2363
Back = S 32° 37' 42.19" W
Ahead = S 52° 41' 00.78" W
Chord Bear = S 42° 39' 21.48" W

Curve Data

Curve E_25TH_H-3
P.I. Station 6+59.28 N 1,895,529.1693 E 1,112,579.6816
Delta = 15° 07' 57.32" (RT)
Degree = 8° 02' 24.62"
Tangent = 94.6570
Length = 188.2122
Radius = 712.6188
External = 6.2591
Long Chord = 187.6657
Mid. Ord. = 6.2046
P.C. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
P.T. Station 7+52.84 N 1,895,491.5086 E 1,112,492.8391
C.C. N 1,896,145.2961 E 1,112,209.3125
Back = S 51° 25' 21.29" W
Ahead = S 66° 33' 18.61" W
Chord Bear = S 58° 59' 19.95" W

Curve Data

Curve E_25TH_H-4
P.I. Station 8+73.71 N 1,895,451.3535 E 1,112,378.8633
Delta = 55° 29' 29.90" (LT)
Degree = 43° 56' 10.81"
Tangent = 68.5980
Length = 126.3001
Radius = 130.4064
External = 16.9419
Long Chord = 121.4214
Mid. Ord. = 14.9939
P.C. Station 8+05.11 N 1,895,472.9161 E 1,112,443.9843
P.T. Station 9+31.41 N 1,895,385.4753 E 1,112,359.7390
C.C. N 1,895,349.1196 E 1,112,484.9751
Back = S 71° 40' 46.26" W
Ahead = S 16° 11' 16.36" W
Chord Bear = S 43° 56' 01.31" W

Table with 4 columns: FILE NAME, DESIGNED, DRAWN, USER, PLOT DATE and 4 columns: AJP, TMB, JMM, 10/16/09.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN I-290 RAMP CURVE DATA
SCALE: N.T.S. SHEET NO. 30 OF 36 SHEETS STA. TO STA.

Table with 5 columns: F.A.I. R.T.E., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 290, (3031.1, ETC., 3838)RS-5, COOK, 298, 57.