

RAMP E_PLINA_A

Point 1880 N 1,898,145.7306 E 1,163,446.2754 Sta 0+00.00

Course from 1880 to 1881 S 83° 17' 49.79" E Dist 288.4727

Point 1881 N 1,898,112.0601 E 1,163,732.7764 Sta 2+88.47

Course from 1881 to PC E PLINA A-1 S 85° 47' 44.76" E Dist 215.6583

Curve Data

Curve E PLINA A-1

P.I. Station 5+23.48 N 1,898,094.8315 E 1,163,967.1481
 Delta = 5° 47' 54.07" (LT)
 Degree = 14° 59' 56.02"
 Tangent = 19.3458
 Length = 38.6585
 Radius = 382.0000
 External = 0.4896
 Long Chord = 38.6420
 Mid. Ord. = 0.4889
 P.C. Station 5+04.13 N 1,898,096.2497 E 1,163,947.8544
 P.T. Station 5+42.79 N 1,898,095.3697 E 1,163,986.4864
 C.C. N 1,898,477.2218 E 1,163,975.8595
 Back = S 85° 47' 44.76" E
 Ahead = N 88° 24' 21.17" E
 Chord Bear = S 88° 41' 41.79" E

Course from PT E PLINA A-1 to PC E PLINA A-2 N 88° 24' 21.17" E Dist 383.1736

Curve Data

Curve E PLINA A-2

P.I. Station 9+67.47 N 1,898,107.1838 E 1,164,410.9992
 Delta = 7° 35' 10.63" (LT)
 Degree = 9° 09' 09.65"
 Tangent = 41.5036
 Length = 82.8859
 Radius = 626.0000
 External = 1.3743
 Long Chord = 82.8254
 Mid. Ord. = 1.3713
 P.C. Station 9+25.96 N 1,898,106.0292 E 1,164,369.5117
 P.T. Station 10+08.85 N 1,898,113.8054 E 1,164,451.9712
 C.C. N 1,898,731.7869 E 1,164,352.0969
 Back = N 88° 24' 21.17" E
 Ahead = N 80° 49' 10.54" E
 Chord Bear = N 84° 36' 45.86" E

Course from PT E PLINA A-2 to 1882 N 80° 49' 10.54" E Dist 79.9728

Point 1882 N 1,898,126.5645 E 1,164,530.9196 Sta 10+88.82

Course from 1882 to 1883 N 79° 08' 55.61" E Dist 304.7514

Point 1883 N 1,898,183.9368 E 1,164,830.2218 Sta 13+93.57

RAMP E_PLINA_B

Curve Data

Curve E PLINA B-1

P.I. Station 0+67.90 N 1,897,813.8461 E 1,164,736.1067
 Delta = 3° 32' 30.55" (LT)
 Degree = 2° 36' 32.75"
 Tangent = 67.8961
 Length = 135.7489
 Radius = 2,196.0000
 External = 1.0494
 Long Chord = 135.7273
 Mid. Ord. = 1.0489
 P.C. Station 0+00.00 N 1,897,804.3350 E 1,164,803.3332
 P.T. Station 1+35.75 N 1,897,819.1859 E 1,164,668.4209
 C.C. N 1,895,629.9880 E 1,164,495.7110
 Back = N 81° 56' 50.47" W
 Ahead = N 85° 29' 21.02" W
 Chord Bear = N 83° 43' 05.75" W

Course from PT E PLINA B-1 to PC E PLINA B-2 N 85° 29' 21.02" W Dist 416.7624

Curve Data

Curve E PLINA B-2

P.I. Station 6+00.22 N 1,897,855.7157 E 1,164,205.3842
 Delta = 6° 04' 09.60" (LT)
 Degree = 6° 21' 58.31"
 Tangent = 47.7131
 Length = 95.3369
 Radius = 900.0000
 External = 1.2639
 Long Chord = 95.2923
 Mid. Ord. = 1.2621
 P.C. Station 5+52.51 N 1,897,851.9632 E 1,164,252.9494
 P.T. Station 6+47.85 N 1,897,854.4181 E 1,164,157.6887
 C.C. N 1,896,954.7510 E 1,164,182.1667
 Back = N 85° 29' 21.02" W
 Ahead = S 88° 26' 29.38" W
 Chord Bear = N 88° 31' 25.82" W

Course from PT E PLINA B-2 to 1891 S 88° 26' 29.38" W Dist 274.9672

Point 1891 N 1,897,846.9396 E 1,163,882.8233 Sta 9+22.82

Course from 1891 to 1892 S 83° 40' 48.48" W Dist 235.8277

Point 1892 N 1,897,820.9799 E 1,163,648.4288 Sta 11+58.64

Course from 1892 to PC E PLINA B-3 S 81° 21' 12.02" W Dist 120.4828

Curve Data

Curve E PLINA B-3

P.I. Station 13+74.83 N 1,897,788.4787 E 1,163,434.7018
 Delta = 7° 05' 04.08" (LT)
 Degree = 3° 42' 21.84"
 Tangent = 95.7013
 Length = 191.1587
 Radius = 1,546.0000
 External = 2.9592
 Long Chord = 191.0369
 Mid. Ord. = 2.9536
 P.C. Station 12+79.13 N 1,897,802.8665 E 1,163,529.3153
 P.T. Station 14+70.28 N 1,897,762.5318 E 1,163,342.5850
 C.C. N 1,896,274.4379 E 1,163,761.7418
 Back = S 81° 21' 12.02" W
 Ahead = S 74° 16' 07.94" W
 Chord Bear = S 77° 48' 39.98" W

FILE NAME =	DESIGNED - CAG	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expIn_ABC_C3_290_R_Data_exalign_30.dgn	DRAWN - DMS	REVISED -			290	(2828B,D, ETC., 3031,1RS-6	COOK	185	45			
USER NAME = tble-k	CHECKED - CAR	REVISED -			CONTRACT NO. 60G53							
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 30 OF 33 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		