

RAMP E_STCHARLES_E

Point 790 N 1,901,504.0880 E 1,096,603.3986 Sta 0+00.00

Course from 790 to PC E STCHRLS E-1 N 1° 01' 13.51" W Dist 358.8491

Curve Data

Curve E STCHRLS E-1
 P.I. Station = 5+46.20 N 1,902,050.2050 E 1,096,593.6714
 Delta = 48° 41' 52.76" (LT)
 Degree = 13° 50' 22.42"
 Tangent = 187.3545
 Length = 351.8753
 Radius = 414.0000
 External = 40.4202
 Long Chord = 341.3791
 Mid. Ord. = 36.8249
 P.C. Station = 3+58.85 N 1,901,862.8802 E 1,096,597.0079
 P.T. Station = 7+10.72 N 1,902,171.3380 E 1,096,450.7431
 C.C. = N 1,901,855.5073 E 1,096,183.0736
 Back = N 1° 01' 13.51" W
 Ahead = N 49° 43' 06.27" W
 Chord Bear = N 25° 22' 09.89" W

Course from PT E STCHRLS E-1 to PC E STCHRLS E-2 N 49° 43' 06.27" W Dist 190.9013

Curve Data

Curve E STCHRLS E-2
 P.I. Station = 9+39.61 N 1,902,319.3227 E 1,096,276.1319
 Delta = 16° 22' 29.84" (RT)
 Degree = 21° 42' 10.61"
 Tangent = 37.9841
 Length = 75.4504
 Radius = 264.0000
 External = 2.7186
 Long Chord = 75.1939
 Mid. Ord. = 2.6909
 P.C. Station = 9+01.63 N 1,902,294.7643 E 1,096,305.1091
 P.T. Station = 9+77.08 N 1,902,351.0542 E 1,096,255.2537
 C.C. = N 1,902,496.1636 E 1,096,475.7969
 Back = N 49° 43' 06.27" W
 Ahead = N 33° 20' 36.44" W
 Chord Bear = N 41° 31' 51.35" W

Course from PT E STCHRLS E-2 to PC E STCHRLS E-3 N 33° 20' 36.44" W Dist 188.5319

Curve Data

Curve E STCHRLS E-3
 P.I. Station = 13+31.80 N 1,902,647.3891 E 1,096,060.2762
 Delta = 50° 48' 01.91" (LT)
 Degree = 16° 22' 12.80"
 Tangent = 166.1942
 Length = 310.3228
 Radius = 350.0000
 External = 37.4539
 Long Chord = 300.2575
 Mid. Ord. = 33.8333
 P.C. Station = 11+65.61 N 1,902,508.5520 E 1,096,151.6259
 P.T. Station = 14+75.93 N 1,902,664.3458 E 1,095,894.9492
 C.C. = N 1,902,316.1723 E 1,095,859.2391
 Back = N 33° 20' 36.44" W
 Ahead = N 84° 08' 38.35" W
 Chord Bear = N 58° 44' 37.39" W

Course from PT E STCHRLS E-3 to 791 N 84° 08' 38.35" W Dist 218.0726

Point 791 N 1,902,686.5955 E 1,095,678.0147 Sta 16+94.00

RAMP E_STCHARLES_F

Curve Data

Curve E STCHRLS F-1
 P.I. Station = 1+12.43 N 1,902,448.5953 E 1,096,615.6077
 Delta = 45° 12' 43.83" (RT)
 Degree = 21° 13' 06.93"
 Tangent = 112.4348
 Length = 213.0781
 Radius = 270.0263
 External = 22.4729
 Long Chord = 207.5927
 Mid. Ord. = 20.7463
 P.C. Station = 0+00.00 N 1,902,560.1173 E 1,096,601.3101
 P.T. Station = 2+13.08 N 1,902,359.8827 E 1,096,546.5306
 C.C. = N 1,902,525.7799 E 1,096,333.4759
 Back = S 7° 18' 20.51" E
 Ahead = S 37° 54' 23.32" W
 Chord Bear = S 15° 18' 01.40" W

Curve Data

Curve E STCHRLS F-2
 P.I. Station = 9+52.00 N 1,901,809.9411 E 1,096,053.0012
 Delta = 155° 49' 18.28" (RT)
 Degree = 36° 12' 09.00"
 Tangent = 738.9229
 Length = 430.4171
 Radius = 158.2647
 External = 597.4170
 Long Chord = 309.5097
 Mid. Ord. = 125.1188
 P.C. Station = 2+13.08 N 1,902,359.8827 E 1,096,546.5306
 P.T. Station = 6+43.50 N 1,902,513.7776 E 1,096,277.9927
 C.C. = N 1,902,465.5883 E 1,096,428.7425
 Back = S 41° 54' 19.76" W
 Ahead = N 17° 43' 38.03" E
 Chord Bear = N 60° 11' 01.11" W

Curve Data

Curve E STCHRLS F-3
 P.I. Station = 6+83.21 N 1,902,551.6075 E 1,096,290.0856
 Delta = 24° 45' 06.69" (RT)
 Degree = 31° 39' 18.46"
 Tangent = 39.7157
 Length = 78.1923
 Radius = 181.0000
 External = 4.3061
 Long Chord = 77.5856
 Mid. Ord. = 4.2060
 P.C. Station = 6+43.50 N 1,902,513.7776 E 1,096,277.9927
 P.T. Station = 7+21.69 N 1,902,580.8988 E 1,096,316.9064
 C.C. = N 1,902,458.6657 E 1,096,450.3983
 Back = N 17° 43' 38.03" E
 Ahead = N 42° 28' 44.72" E
 Chord Bear = N 30° 06' 11.38" E

Curve Data

Curve E STCHRLS F-4
 P.I. Station = 7+99.66 N 1,902,638.4067 E 1,096,369.5641
 Delta = 48° 01' 56.65" (RT)
 Degree = 32° 44' 25.60"
 Tangent = 77.9743
 Length = 146.7066
 Radius = 175.0000
 External = 16.5855
 Long Chord = 142.4482
 Mid. Ord. = 15.1497
 P.C. Station = 7+21.69 N 1,902,580.8988 E 1,096,316.9064
 P.T. Station = 8+68.39 N 1,902,637.7106 E 1,096,447.5354
 C.C. = N 1,902,462.7176 E 1,096,445.9731
 Back = N 42° 28' 44.72" E
 Ahead = S 89° 29' 18.63" E
 Chord Bear = N 66° 29' 43.05" 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_ABC_C4_290_R_Data_exelign_63.dgn	DRAWN - TMB	REVISED -			290	2009-0998R	COOK/DUPAGE	309	35		
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60157						
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 21 OF 26 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	