

RAMP E_U.S. 20_A

RAMP E_U.S. 20_A

RAMP E_U.S. 20_B

Curve Data

Curve E US20 A-1
 P.I. Station 1+85.42 N 1,927,880.5059 E 1,067,605.6497
 Delta = 5° 26' 03.48" (RT)
 Degree = 1° 27' 59.41"
 Tangent = 185.4201
 Length = 370.5622
 Radius = 3,906.9701
 External = 4.3974
 Long Chord = 370.4234
 Mid. Ord. = 4.3925
 P.C. Station 0+00.00 N 1,928,061.5056 E 1,067,645.8954
 P.T. Station 3+70.56 N 1,927,704.1311 E 1,067,548.4434
 C.C. N 1,928,909.5201 E 1,063,832.0671
 Back = S 12° 32' 09.32" W
 Ahead = S 17° 58' 12.81" W
 Chord Bear = S 15° 15' 11.06" W

Curve Data

Curve E US20 A-2
 P.I. Station 5+35.18 N 1,927,546.7675 E 1,067,500.1064
 Delta = 26° 15' 02.22" (RT)
 Degree = 8° 06' 55.98"
 Tangent = 164.6201
 Length = 323.4607
 Radius = 706.0000
 External = 18.9385
 Long Chord = 320.6391
 Mid. Ord. = 18.4437
 P.C. Station 3+70.56 N 1,927,704.1311 E 1,067,548.4434
 P.T. Station 6+94.02 N 1,927,427.0124 E 1,067,387.1529
 C.C. N 1,927,911.4320 E 1,066,873.5639
 Back = S 17° 04' 30.87" W
 Ahead = S 43° 19' 33.09" W
 Chord Bear = S 30° 12' 01.98" W

Course from PT E US20 A-2 to PC E US20 A-3 S 43° 19' 33.09" W Dist 253.4927

Curve Data

Curve E US20 A-3
 P.I. Station 10+80.03 N 1,927,146.2048 E 1,067,122.2938
 Delta = 21° 44' 34.53" (LT)
 Degree = 8° 18' 13.45"
 Tangent = 132.5167
 Length = 261.8451
 Radius = 690.0000
 External = 12.6099
 Long Chord = 260.2767
 Mid. Ord. = 12.3836
 P.C. Station 9+47.52 N 1,927,242.6058 E 1,067,213.2196
 P.T. Station 12+09.36 N 1,927,022.9794 E 1,067,073.5478
 C.C. N 1,926,769.1645 E 1,067,715.1692
 Back = S 43° 19' 33.09" W
 Ahead = S 21° 34' 58.56" W
 Chord Bear = S 32° 27' 15.83" W

Course from PT E US20 A-3 to PC E US20 A-4 S 21° 34' 58.56" W Dist 119.0824

Curve Data

Curve E US20 A-4
 P.I. Station 14+28.02 N 1,926,819.6531 E 1,066,993.1153
 Delta = 5° 10' 58.89" (RT)
 Degree = 2° 36' 15.67"
 Tangent = 99.5748
 Length = 199.0139
 Radius = 2,200.0000
 External = 2.2523
 Long Chord = 198.9460
 Mid. Ord. = 2.2500
 P.C. Station 13+28.44 N 1,926,912.2463 E 1,067,029.7437
 P.T. Station 15+27.46 N 1,926,730.7473 E 1,066,948.2721
 C.C. N 1,927,721.5110 E 1,064,983.9943
 Back = S 21° 34' 58.56" W
 Ahead = S 26° 45' 57.45" W
 Chord Bear = S 24° 10' 28.01" W

Curve Data

Curve E US20 A-5
 P.I. Station 16+76.53 N 1,926,597.6443 E 1,066,881.1361
 Delta = 17° 39' 13.07" (RT)
 Degree = 5° 58' 05.92"
 Tangent = 149.0760
 Length = 295.7894
 Radius = 960.0000
 External = 11.5059
 Long Chord = 294.6208
 Mid. Ord. = 11.3696
 P.C. Station 15+27.46 N 1,926,730.7473 E 1,066,948.2721
 P.T. Station 18+23.25 N 1,926,491.1693 E 1,066,776.7967
 C.C. N 1,927,163.0806 E 1,066,091.1327
 Back = S 26° 45' 57.45" W
 Ahead = S 44° 25' 10.52" W
 Chord Bear = S 35° 35' 33.99" W

Course from PT E US20 A-5 to 1031 S 44° 25' 10.52" W Dist 201.5068

Point 1031 N 1,926,347.2464 E 1,066,635.7606 Sta 20+24.75

Course from 1031 to 1032 S 42° 56' 18.41" W Dist 118.2232

Point 1032 N 1,926,260.6969 E 1,066,555.2255 Sta 21+42.98

Course from 1032 to 1033 S 45° 29' 03.04" W Dist 170.5736

Point 1033 N 1,926,141.1066 E 1,066,433.5968 Sta 23+13.55

Course from 1033 to PC E US20 A-6 S 46° 52' 04.87" W Dist 704.8722

Curve Data

Curve E US20 A-6
 P.I. Station 32+30.85 N 1,925,513.9669 E 1,065,764.1700
 Delta = 31° 30' 29.56" (RT)
 Degree = 7° 36' 32.40"
 Tangent = 212.4262
 Length = 414.0913
 Radius = 753.0000
 External = 29.3899
 Long Chord = 408.8932
 Mid. Ord. = 28.2859
 P.C. Station 30+18.42 N 1,925,659.1987 E 1,065,919.1946
 P.T. Station 34+32.51 N 1,925,471.1664 E 1,065,556.1003
 C.C. N 1,926,208.7236 E 1,065,404.3827
 Back = S 46° 52' 04.87" W
 Ahead = S 78° 22' 34.43" W
 Chord Bear = S 62° 37' 19.65" W

Course from PT E US20 A-6 to PC E US20 A-7 S 78° 22' 34.43" W Dist 64.4024

Curve Data

Curve E US20 A-7
 P.I. Station 36+00.88 N 1,925,430.3716 E 1,065,392.8454
 Delta = 16° 02' 14.34" (LT)
 Degree = 7° 45' 49.16"
 Tangent = 103.9642
 Length = 206.5691
 Radius = 738.0000
 External = 7.2869
 Long Chord = 205.8955
 Mid. Ord. = 7.2157
 P.C. Station 34+96.92 N 1,925,458.1903 E 1,065,493.0187
 P.T. Station 37+03.49 N 1,925,375.9614 E 1,065,304.2560
 C.C. N 1,924,747.1008 E 1,065,690.4922
 Back = S 74° 28' 47.02" W
 Ahead = S 58° 26' 32.67" W
 Chord Bear = S 66° 27' 39.84" W

Course from PT E US20 A-7 to 1034 S 58° 26' 32.67" W Dist 118.4852

Point 1034 N 1,925,313.9515 E 1,065,203.2930 Sta 38+21.97

Curve Data

Curve E US20 B-1
 P.I. Station 1+22.84 N 1,924,013.8803 E 1,064,773.2649
 Delta = 8° 06' 50.25" (RT)
 Degree = 3° 33' 64' 18' 29.62"
 Tangent = 122.8384
 Length = 245.2661
 Radius = 1,731.9182
 External = 4.3508
 Long Chord = 245.0612
 Mid. Ord. = 4.3399
 P.C. Station 0+00.00 N 1,923,894.0010 E 1,064,746.4650
 P.T. Station 2+45.27 N 1,924,128.7769 E 1,064,816.7166
 C.C. N 1,923,516.1445 E 1,066,436.6618
 Back = N 12° 36' 06.13" E
 Ahead = N 20° 42' 56.38" E
 Chord Bear = N 16° 39' 31.26" E

Course from PT E US20 B-1 to 1041 N 15° 15' 18.43" E Dist 295.1404

Point 1041 N 1,924,413.5176 E 1,064,894.3732 Sta 5+40.41

Course from 1041 to PC E US20 B-2 N 16° 42' 10.67" E Dist 419.6424

Curve Data

Curve E US20 B-2
 P.I. Station 10+00.53 N 1,924,854.2294 E 1,065,026.6179
 Delta = 2° 24' 11.85" (LT)
 Degree = 2° 58' 07.30"
 Tangent = 40.4832
 Length = 80.9545
 Radius = 1,930.0000
 External = 0.4245
 Long Chord = 80.9486
 Mid. Ord. = 0.4244
 P.C. Station 9+60.05 N 1,924,815.4543 E 1,065,014.9827
 P.T. Station 10+41.00 N 1,924,893.4583 E 1,065,036.6170
 C.C. N 1,925,370.1558 E 1,063,166.4139
 Back = N 16° 42' 10.67" E
 Ahead = N 14° 17' 58.82" E
 Chord Bear = N 15° 30' 04.75" E

Curve Data

Curve E US20 B-3
 P.I. Station 11+41.44 N 1,924,990.7850 E 1,065,061.4247
 Delta = 12° 08' 01.39" (RT)
 Degree = 6° 03' 46.96"
 Tangent = 100.4386
 Length = 200.1258
 Radius = 945.0000
 External = 5.3225
 Long Chord = 199.7521
 Mid. Ord. = 5.2927
 P.C. Station 10+41.00 N 1,924,893.4583 E 1,065,036.6170
 P.T. Station 12+41.13 N 1,925,080.7230 E 1,065,106.1356
 C.C. N 1,924,660.0495 E 1,065,952.3382
 Back = N 14° 17' 58.82" E
 Ahead = N 26° 26' 00.22" E
 Chord Bear = N 20° 21' 59.52" E

Curve Data

Curve E US20 B-4
 P.I. Station 12+88.13 N 1,925,125.0804 E 1,065,121.6735
 Delta = 46° 38' 55.77" (LT)
 Degree = 52° 33' 45.20"
 Tangent = 47.0000
 Length = 88.7492
 Radius = 109.0049
 External = 9.7009
 Long Chord = 86.3181
 Mid. Ord. = 8.9081
 P.C. Station 12+41.13 N 1,925,080.7230 E 1,065,106.1356
 P.T. Station 13+29.88 N 1,925,166.8288 E 1,065,100.0848
 C.C. N 1,925,116.7592 E 1,065,003.2597
 Back = N 19° 18' 17.02" E
 Ahead = N 27° 20' 38.75" W
 Chord Bear = N 4° 01' 10.87" W

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-355 CURVE DATA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\h...ABC.D1.355.R.Data.exo\sig\...35.dgn	DRAWN - TMB	REVISED -					220, 1-1, 2&3RS-7	DUPAGE	546	52	
USER NAME = jmajewski	CHECKED - JMM	REVISED -					*290,355	CONTRACT NO. 60C51			
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			SCALE: N.T.S.	SHEET NO. 27 OF 44 SHEETS	STA.	TO STA.					