

HORIZONTAL & VERTICAL CONTROL

Chain IL78 contains:
260 CUR 200 210 CUR 220 CUR 230 CUR 240 CUR 250 A10717

Beginning chain IL78 description
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Point 260 N 2,072,595.3220 E 2,346,710.1504 Sta 710+17.41

Course from 260 to PC 200 N 2° 14' 17.01" W Dist 2,254.0414'

Curve Data

Curve 200
P.I. Station 735+28.83 N 2,075,104.8272 E 2,346,612.0755

Delta = 0° 26' 34.53" (RT)
Degree = 0° 05' 09.76"
Tangent = 257.3795'
Length = 514.7564'
Radius = 66,587.9424'
External = 0.4974'
Long Chord = 514.7552'
Mid. Ord. = 0.4974'

P.C. Station 732+71.45 N 2,074,847.6440 E 2,346,622.1266
P.T. Station 737+86.21 N 2,075,362.0804 E 2,346,604.0129
C.C. N 2,077,448.0063 E 2,413,159.2755

Course from PT 200 to 210 N 1° 47' 42.48" W Dist 5,062.9086'

Point 210 N 2,080,422.5042 E 2,346,445.4128 Sta 788+49.11

Course from 210 to PC 220 N 2° 02' 04.01" W Dist 6,665.9263'

Curve Data

Curve 220
P.I. Station 859+61.57 N 2,087,530.4720 E 2,346,192.9182

Delta = 0° 29' 09.68" (RT)
Degree = 0° 03' 15.92"
Tangent = 446.5247'
Length = 893.0441'
Radius = 105,278.1779'
External = 0.9469'
Long Chord = 893.0414'
Mid. Ord. = 0.9469'

P.C. Station 855+15.04 N 2,087,084.2287 E 2,346,208.7700
P.T. Station 864+08.09 N 2,087,976.8336 E 2,346,180.8523
C.C. N 2,090,821.6417 E 2,451,420.5872

Course from PT 220 to PC 230 N 1° 32' 54.33" W Dist 5,696.2427'

Curve Data

Curve 230
P.I. Station 925+78.19 N 2,094,144.6843 E 2,346,014.1249

Delta = 0° 29' 23.48" (LT)
Degree = 0° 03' 06.08"
Tangent = 473.8610'
Length = 947.7163'
Radius = 110,849.1711'
External = 1.0128'
Long Chord = 947.7134'
Mid. Ord. = 1.0128'

P.C. Station 921+04.33 N 2,093,670.9963 E 2,346,026.9295
P.T. Station 930+52.04 N 2,094,618.2455 E 2,345,997.2710
C.C. N 2,090,675.6499 E 2,235,218.2357

Course from PT 230 to PC 240 N 2° 02' 17.81" W Dist 4,050.1293'

Curve Data

Curve 240
P.I. Station 978+66.16 N 2,099,429.3157 E 2,345,826.0463

Delta = 0° 22' 49.58" (LT)
Degree = 0° 01' 29.63"
Tangent = 763.9868'
Length = 1,527.9680'
Radius = 230,118.0315'
External = 1.2682'
Long Chord = 1,527.9652'
Mid. Ord. = 1.2682'

P.C. Station 971+02.17 N 2,098,665.8123 E 2,345,853.2192
P.T. Station 986+30.14 N 2,100,192.6219 E 2,345,793.8045
C.C. N 2,090,481.1562 E 2,115,880.7865

Course from PT 240 to PC 250 N 2° 25' 07.40" W Dist 4,334.4869'

Curve Data

Curve 250
P.I. Station 1033+60.75 N 2,104,919.0177 E 2,345,594.1627

Delta = 1° 09' 54.45" (RT)
Degree = 0° 08' 49.46"
Tangent = 396.1234'
Length = 792.2196'
Radius = 38,957.9140'
External = 2.0138'
Long Chord = 792.2059'
Mid. Ord. = 2.0137'

P.C. Station 1029+64.63 N 2,104,523.2472 E 2,345,610.8800
P.T. Station 1037+56.85 N 2,105,315.0463 E 2,345,585.4965
C.C. N 2,106,167.3532 E 2,384,534.0861

Course from PT 250 to A10717 N 1° 15' 12.95" W Dist 8,121.8796'

Point A10717 N 2,113,434.9820 E 2,345,407.8090 Sta 1118+78.73

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Ending chain IL78 description

Chain CANYON_RD contains:
Z7932 CUR 370 CUR 360 Z7931 CUR 350 CUR 340 CUR 330 CUR 320 CUR 310 CUR 300 CU-
R 290 280 270

Beginning chain CANYON_RD description
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Point Z7932 N 2,104,576.7849 E 2,333,594.3578 Sta 79+81.08

Course from Z7932 to PC 370 N 89° 27' 04.60" E Dist 1,127.3403'

Curve Data

Curve 370
P.I. Station 92+07.36 N 2,104,588.5289 E 2,334,820.5785

Delta = 0° 45' 18.29" (RT)
Degree = 0° 22' 53.78"
Tangent = 98.9365'
Length = 197.8701'
Radius = 15,014.4394'
External = 0.3260'
Long Chord = 197.8687'
Mid. Ord. = 0.3260'

P.C. Station 91+08.42 N 2,104,587.5814 E 2,334,721.6465
P.T. Station 93+06.29 N 2,104,588.1725 E 2,334,919.5143
C.C. N 2,089,573.8305 E 2,334,865.4381

Curve Data

Curve 360
P.I. Station 93+83.88 N 2,104,587.8931 E 2,334,997.1081

Delta = 0° 32' 58.11" (LT)
Degree = 0° 21' 14.66"
Tangent = 77.5943'
Length = 155.1874'
Radius = 16,182.0026'
External = 0.1860'
Long Chord = 155.1869'
Mid. Ord. = 0.1860'

P.C. Station 93+06.29 N 2,104,588.1725 E 2,334,919.5143
P.T. Station 94+61.48 N 2,104,588.3577 E 2,335,074.7011
C.C. N 2,120,770.0702 E 2,334,977.7956

Course from PT 360 to Z7931 N 89° 39' 24.78" E Dist 1,029.6306'

Point Z7931 N 2,104,594.5236 E 2,336,104.3132 Sta 104+91.11

Course from Z7931 to PC 350 N 89° 51' 30.36" E Dist 505.5691'

Curve Data

Curve 350
P.I. Station 111+30.12 N 2,104,596.1025 E 2,336,743.3267

Delta = 0° 50' 20.49" (LT)
Degree = 0° 18' 51.74"
Tangent = 133.4464'
Length = 266.8881'
Radius = 18,225.3921'
External = 0.4885'
Long Chord = 266.8857'
Mid. Ord. = 0.4885'

P.C. Station 109+96.68 N 2,104,595.7728 E 2,336,609.8807
P.T. Station 112+63.56 N 2,104,598.3863 E 2,336,876.7536
C.C. N 2,122,821.1092 E 2,336,564.8492

Curve Data

Curve 340
P.I. Station 113+86.78 N 2,104,600.4950 E 2,336,999.9533

Delta = 0° 27' 30.39" (RT)
Degree = 0° 11' 09.71"
Tangent = 123.2177'
Length = 246.4341'
Radius = 30,799.1465'
External = 0.2465'
Long Chord = 246.4335'
Mid. Ord. = 0.2465'

P.C. Station 112+63.56 N 2,104,598.3863 E 2,336,876.7536
P.T. Station 115+10.00 N 2,104,601.6179 E 2,337,123.1659
C.C. N 2,073,803.7504 E 2,337,403.8418

Course from PT 340 to PC 330 N 89° 28' 40.26" E Dist 2,008.8287'

Curve Data

Curve 330
P.I. Station 136+35.37 N 2,104,620.9867 E 2,339,248.4502

Delta = 0° 28' 49.07" (RT)
Degree = 0° 12' 21.82"
Tangent = 116.5438'
Length = 233.0863'
Radius = 27,805.4207'
External = 0.2442'
Long Chord = 233.0856'
Mid. Ord. = 0.2442'

P.C. Station 135+18.83 N 2,104,619.9246 E 2,339,131.9112
P.T. Station 137+51.91 N 2,104,621.0718 E 2,339,364.9940
C.C. N 2,076,815.6586 E 2,339,385.3050

Course from PT 330 to PC 320 N 89° 57' 29.33" E Dist 577.8157'

FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL ALIGNMENT IL78 & CANYON RD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\rundbladerr\d0232736	D201310-sh1-hvc.dgn	DRAWN -	REVISED -					650	104T-3	JO DAVIESS	97	26
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 64F74				
	PLOT DATE = Thu Oct 10 07:05:31 2013	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		