

# EXISTING HORIZONTAL & VERTICAL CONTROL

Chain IL94 contains:  
1016 202 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250 CUR 290 A1114

Beginning chain IL94 description  
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Point 1016 N 1,692,342.9899 E 2,140,441.2978 Sta 944+78.9133

Course from 1016 to 202 0° 51' 25.7870" Dist 5,613.8537'

Equation: Sta 1000+92.7670 (BK) = Sta 0+00.0000 (AH) -----  
End Region 1  
Begin Region 2

Point 202 N 1,697,956.2154 E 2,140,525.2797 Sta 0+00.0000

### Curve Data \*\*\*\*\*

Curve 200  
P.I. Station 5+05.3016 N 1,698,461.4604 E 2,140,532.8389  
Delta = 89° 42' 49.1268" (RT)  
Degree = 11° 16' 56.6336"  
Tangent = 505.3016'  
Length = 795.1647'  
Radius = 507.8333'  
External = 208.5635'  
Long Chord = 716.3879'  
Mid. Ord. = 147.8447'  
P.C. Station 0+00.0000 N 1,697,956.2154 E 2,140,525.2797  
P.T. Station 7+95.1647 N 1,698,456.4265 E 2,141,038.1154  
C.C. N 1,697,948.6183 E 2,141,033.0562

Course from PT 200 to PC 210 90° 34' 14.9137" Dist 13,856.9391'

### Curve Data \*\*\*\*\*

Curve 210  
P.I. Station 150+04.8992 N 1,698,314.8643 E 2,155,247.1448  
Delta = 20° 23' 54.0050" (LT)  
Degree = 2° 55' 18.7870"  
Tangent = 352.7954'  
Length = 698.1224'  
Radius = 1,960.9182'  
External = 31.4836'  
Long Chord = 694.4413'  
Mid. Ord. = 30.9861'  
P.C. Station 146+52.1038 N 1,698,318.3790 E 2,154,894.3669  
P.T. Station 153+50.2262 N 1,698,434.5289 E 2,155,579.0258  
C.C. N 1,700,279.1998 E 2,154,913.9022

Course from PT 210 to PC 220 70° 10' 20.9088" Dist 419.6967'

### Curve Data \*\*\*\*\*

Curve 220  
P.I. Station 161+15.4553 N 1,698,694.0869 E 2,156,298.8906  
Delta = 20° 26' 36.0298" (RT)  
Degree = 2° 59' 24.0954"  
Tangent = 345.5324'  
Length = 683.7177'  
Radius = 1,916.2298'  
External = 30.9038'  
Long Chord = 680.0967'  
Mid. Ord. = 30.4133'  
P.C. Station 157+69.9229 N 1,698,576.8858 E 2,155,973.8421  
P.T. Station 164+53.6406 N 1,698,690.3732 E 2,156,644.4031  
C.C. N 1,696,774.2541 E 2,156,623.8078

Course from PT 220 to PC 230 90° 36' 56.9386" Dist 1,758.5999'

### Curve Data \*\*\*\*\*

Curve 230  
P.I. Station 187+23.2323 N 1,698,665.9801 E 2,158,913.8637  
Delta = 90° 35' 26.6077" (LT)  
Degree = 11° 19' 43.9129"  
Tangent = 510.9918'  
Length = 799.6452'  
Radius = 505.7504'  
External = 213.2045'  
Long Chord = 718.9167'  
Mid. Ord. = 149.9792'  
P.C. Station 182+12.2405 N 1,698,671.4721 E 2,158,402.9014  
P.T. Station 190+11.8857 N 1,699,176.9718 E 2,158,914.0875  
C.C. N 1,699,177.1933 E 2,158,408.3371

Course from PT 230 to PC 240 0° 01' 30.3309" Dist 3,753.3171'

### Curve Data \*\*\*\*\*

Curve 240  
P.I. Station 232+76.1595 N 1,703,441.2452 E 2,158,915.9550  
Delta = 0° 23' 26.6278" (RT)  
Degree = 0° 02' 17.6470"  
Tangent = 510.9567'  
Length = 1,021.9094'  
Radius = 149,850.5558'  
External = 0.8711'  
Long Chord = 1,021.9075'  
Mid. Ord. = 0.8711'  
P.C. Station 227+65.2028 N 1,702,930.2886 E 2,158,915.7312  
P.T. Station 237+87.1123 N 1,703,952.1885 E 2,158,919.6632  
C.C. N 1,702,864.6635 E 2,308,766.2726

Course from PT 240 to PC 250 0° 24' 56.9587" Dist 14,672.8877'

### Curve Data \*\*\*\*\*

Curve 250  
P.I. Station 387+36.6667 N 1,718,901.3492 E 2,159,028.1580  
Delta = 14° 08' 23.7736" (RT)  
Degree = 2° 34' 06.4529"  
Tangent = 276.6667'  
Length = 550.5222'  
Radius = 2,230.7452'  
External = 17.0912'  
Long Chord = 549.1262'  
Mid. Ord. = 16.9613'  
P.C. Station 384+59.9999 N 1,718,624.6897 E 2,159,026.1501  
P.T. Station 390+10.5221 N 1,719,169.1358 E 2,159,097.6905  
C.C. N 1,718,608.5003 E 2,161,256.8366

Course from PT 250 to PC 290 14° 33' 20.7323" Dist 332.5241'

### Curve Data \*\*\*\*\*

Curve 290  
P.I. Station 396+10.8059 N 1,719,503.0521 E 2,159,448.7488  
Delta = 3° 57' 09.1997" (RT)  
Degree = 0° 44' 18.1382"  
Tangent = 267.7597'  
Length = 535.3070'  
Radius = 7,759.7472'  
External = 4.6183'  
Long Chord = 535.2008'  
Mid. Ord. = 4.6156'  
P.C. Station 393+43.0462 N 1,719,490.9871 E 2,159,181.2611  
P.T. Station 398+78.3532 N 1,719,496.6504 E 2,159,716.4320  
C.C. N 1,711,739.1213 E 2,159,530.9091

Course from PT 290 to A1114 91° 22' 11.9260" Dist 9,554.7163'

Point A1114 N 1,719,268.2127 E 2,169,268.4171 Sta 494+33.0695

Ending chain IL94 description  
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\* 221,213 & 220  
\*\* ROCK ISLAND & MERCER COUNTY

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING HORIZONTAL &amp; VERTICAL CONTROL</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
ct:\pw_work\pwsdot\grantpm\d0184077\0212107-shr-ATB.dgn		DRAWN -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
		CHECKED -	REVISED -			CONTRACT NO. 64072									
		DATE -	REVISED -												

PLOT SCALE = 50,0000' / 1" =  
PLOT DATE = Thu Jun 23 08:28:36 2011