

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	1-3-K	ROCK ISLAND	476	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# HORIZONTAL AND VERTICAL CONTROL

Beginning chain MAINLINE description

Point 13 X 398,453.2000 Y 1,743,421.7400 Sta 343+48.298  
 Course from 13 to 14 N 0° 46' 26.015" E Dist 4,502.9928  
 Point 14 X 398,514.0200 Y 1,747,924.3220 Sta 388+51.291  
 Course from 14 to PC MAIN-2 Due West Dist 0.0003

Curve Data

Curve MAIN-2  
 P. I. Station = 404+13.551 X 398,535.1203 Y 1,749,486.4388  
 Delta = 78° 33' 57.998" (RT)  
 Degree = 2° 59' 59.996"  
 Tangent = 1,562.2593  
 Length = 2,618.8713  
 Radius = 1,909.8600  
 External = 557.5717  
 Long Chord = 2,418.4633  
 Mid. Ord. = 431.5759  
 P. C. Station = 388+51.291 X 398,514.0197 Y 1,747,924.3220  
 P. T. Station = 414+70.162 X 400,070.4184 Y 1,749,775.4265  
 C. C. = X 400,423.7055 Y 1,747,898.5265  
 Back = N 0° 46' 25.993" E  
 Ahead = N 79° 20' 23.991" E  
 Chord Bear = N 40° 03' 24.992" E

Course from PT MAIN-2 to 16 S 38° 39' 35.251" W Dist 0.0006

Point 16 X 400,070.4180 Y 1,749,775.4260 Sta 414+70.162  
 Course from 16 to 17 N 79° 20' 23.066" E Dist 462.7077  
 Point 17 X 400,525.1400 Y 1,749,861.0200 Sta 419+32.870

Ending chain MAINLINE description

Beginning chain OLDBLACK description

Point 372 X 399,810.4610 Y 1,749,990.6540 Sta 0+00.000  
 Course from 372 to PC OLD-BLACKHAW S 44° 35' 00.746" E Dist 26.0690

Curve Data

Curve OLD-BLACKHAWK  
 P. I. Station = 1+01.929 X 399,882.0100 Y 1,749,918.0580  
 Delta = 41° 32' 35.785" (LT)  
 Degree = 28° 38' 52.403"  
 Tangent = 75.8596  
 Length = 145.0134  
 Radius = 200.0000  
 External = 13.9034  
 Long Chord = 141.8577  
 Mid. Ord. = 12.9997  
 P. C. Station = 0+26.069 X 399,828.7601 Y 1,749,972.0869  
 P. T. Station = 1+71.082 X 399,957.6964 Y 1,749,912.9343  
 C. C. = X 399,971.2047 Y 1,750,112.4776  
 Back = S 44° 35' 02.186" E  
 Ahead = S 86° 07' 37.971" E  
 Chord Bear = S 65° 21' 20.079" E

Course from PT OLD-BLACKHAW to 370 S 86° 07' 37.971" E Dist 167.7687

Point 370 X 400,125.0820 Y 1,749,901.6030 Sta 3+38.851

Ending chain OLDBLACK description

Beginning chain REL\_3RD description

Point 384 X 399,176.4250 Y 1,749,069.0880 Sta 0+00.000  
 Course from 384 to PC REL3RD-1 S 0° 29' 10.187" W Dist 322.9817

Curve Data

Curve REL3RD-1  
 P. I. Station = 4+32.644 X 399,172.7540 Y 1,748,636.4600  
 Delta = 57° 28' 21.864" (LT)  
 Degree = 28° 38' 52.403"  
 Tangent = 109.6619  
 Length = 200.6177  
 Radius = 200.0000  
 External = 28.0915  
 Long Chord = 192.3121  
 Mid. Ord. = 24.6318  
 P. C. Station = 3+22.982 X 399,173.6845 Y 1,748,746.1179  
 P. T. Station = 5+23.599 X 399,264.7102 Y 1,748,576.7123  
 C. C. = X 399,373.6773 Y 1,748,744.4209  
 Back = S 0° 29' 10.187" W  
 Ahead = S 56° 59' 11.677" E  
 Chord Bear = S 28° 15' 00.745" E

Course from PT REL3RD-1 to PC REL3RD-2 S 56° 59' 11.677" E Dist 330.5905

Curve Data

Curve REL3RD-2  
 P. I. Station = 9+59.671 X 399,630.3750 Y 1,748,339.1250  
 Delta = 32° 39' 41.436" (LT)  
 Degree = 15° 54' 55.780"  
 Tangent = 105.4812  
 Length = 205.2183  
 Radius = 360.0000  
 External = 15.1350  
 Long Chord = 202.4509  
 Mid. Ord. = 14.5244  
 P. C. Station = 8+54.190 X 399,541.9245 Y 1,748,396.5949  
 P. T. Station = 10+59.408 X 399,735.8542 Y 1,748,338.4771  
 C. C. = X 399,738.0653 Y 1,748,698.4703  
 Back = S 56° 59' 11.677" E  
 Ahead = S 89° 38' 53.113" E  
 Chord Bear = S 73° 19' 02.395" E

Course from PT REL3RD-2 to 387 S 89° 38' 53.113" E Dist 149.3216

Point 387 X 399,885.1730 Y 1,748,337.5600 Sta 12+08.730

Ending chain REL\_3RD description

Beginning chain TRINITY description

Point 380 X 399,860.1559 Y 1,748,132.6503 Sta 0+00.000  
 Course from 380 to PC TRINITY-DRIV N 8° 39' 09.483" E Dist 125.0143

Curve Data

Curve TRINITY-DRIVE  
 P. I. Station = 2+35.910 X 399,895.6470 Y 1,748,365.8750  
 Delta = 22° 58' 31.086" (LT)  
 Degree = 10° 30' 00.283"  
 Tangent = 110.8953  
 Length = 218.8108  
 Radius = 545.6700  
 External = 11.1545  
 Long Chord = 217.3477  
 Mid. Ord. = 10.9311  
 P. C. Station = 1+25.014 X 399,878.9635 Y 1,748,256.2418  
 P. T. Station = 3+43.825 X 399,868.2134 Y 1,748,473.3235  
 C. C. = X 399,339.5040 Y 1,748,338.3344  
 Back = N 8° 39' 09.483" E  
 Ahead = N 14° 19' 21.602" W  
 Chord Bear = N 2° 50' 06.060" W

Course from PT TRINITY-DRIV to 383 N 14° 19' 21.602" W Dist 248.2249

Point 383 X 399,806.8070 Y 1,748,713.8330 Sta 5+92.050

Ending chain TRINITY description