

# EXISTING HORIZONTAL & VERTICAL CONTROL

I-74

Curve Data  
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Curve 00298200  
 P.I. Station 1436+40.34 N 1,668,632.2352 E 2,251,691.2137  
 Delta = 7° 05' 41.63" (RT)  
 Degree = 0° 28' 00.00"  
 Tangent = 761.1423'  
 Length = 1,520.3390'  
 Radius = 12,277.7000'  
 External = 23.5705'  
 Long Chord = 1,519.3678'  
 Mid. Ord. = 23.5253'  
 P.C. Station 1428+79.20 N 1,669,393.2861 E 2,251,703.0139  
 P.T. Station 1443+99.54 N 1,667,878.4692 E 2,251,585.5041  
 C.C. N 1,669,583.6314 E 2,239,426.7895

Course from PT 00298200 to PC 00298210 187° 58' 59.55" Dist 2,306.8573'

Curve Data  
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Curve 00298210  
 P.I. Station 1476+20.73 N 1,664,688.4923 E 2,251,138.1354  
 Delta = 8° 31' 05.03" (LT)  
 Degree = 0° 28' 00.00"  
 Tangent = 914.3368'  
 Length = 1,825.3043'  
 Radius = 12,277.7000'  
 External = 33.9989'  
 Long Chord = 1,823.6237'  
 Mid. Ord. = 33.9050'  
 P.C. Station 1467+06.39 N 1,665,593.9681 E 2,251,265.1211  
 P.T. Station 1485+31.70 N 1,663,774.1953 E 2,251,146.6706  
 C.C. N 1,663,888.8060 E 2,263,423.8357

Course from PT 00298210 to PC 00298220 179° 27' 54.52" Dist 3,134.8674'

Curve Data  
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Curve 00298220  
 P.I. Station 1521+49.14 N 1,660,156.9143 E 2,251,180.4389  
 Delta = 1° 17' 12.49" (RT)  
 Degree = 0° 08' 00.00"  
 Tangent = 482.5713'  
 Length = 965.1019'  
 Radius = 42,971.8400'  
 External = 2.7095'  
 Long Chord = 965.0817'  
 Mid. Ord. = 2.7094'  
 P.C. Station 1516+66.57 N 1,660,639.4645 E 2,251,175.9342  
 P.T. Station 1526+31.67 N 1,659,674.3846 E 2,251,174.1058  
 C.C. N 1,660,238.3283 E 2,208,205.9665

Course from PT 00298220 to I7437 180° 45' 06.99" Dist 5,075.8952'

Point I7437 N 1,654,598.9265 E 2,251,107.4925 Sta 1577+07.56

Ending chain D2\_I74 description

I-80

Chain D2\_I-80 contains:

A084031 CUR 08403200 CUR 08403210 CUR 08403220 CUR 08403230 CUR 08403240 CUR 0-84031250 CUR AMT250 CUR AMT260 CUR AMT270 CUR AMT280 CUR AMT290 CUR AMT380 CUR -AMT300 CUR AMT310 CUR AMT320 CUR AMT330 CUR AMT340 CUR AMT350 CUR AMT360 CUR AM-T370 AMT50

Beginning chain D2\_I-80 description

Point A084031 N 1,791,139.6465 E 2,241,631.9500 Sta 16+69.53

Course from A084031 to PC 08403200 155° 22' 53.34" Dist 4,558.4706'

Curve Data  
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Curve 08403200  
 P.I. Station 80+65.81 N 1,785,324.7735 E 2,244,296.4801  
 Delta = 35° 33' 54.23" (LT)  
 Degree = 0° 59' 59.66"  
 Tangent = 1,837.8150'  
 Length = 3,556.8458'  
 Radius = 5,730.1246'  
 External = 287.5071'  
 Long Chord = 3,500.0177'  
 Mid. Ord. = 273.7708'  
 P.C. Station 62+28.00 N 1,786,995.5339 E 2,243,530.8931  
 P.T. Station 97+84.85 N 1,784,410.9704 E 2,245,891.0106  
 C.C. N 1,789,382.5583 E 2,248,740.1582

Course from PT 08403200 to PC 08403210 119° 48' 59.11" Dist 394.5479'

Curve Data  
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Curve 08403210  
 P.I. Station 130+30.99 N 1,782,796.9137 E 2,248,707.4407  
 Delta = 60° 16' 18.85" (RT)  
 Degree = 1° 09' 59.07"  
 Tangent = 2,851.5971'  
 Length = 5,167.3096'  
 Radius = 4,912.1568'  
 External = 767.7103'  
 Long Chord = 4,932.3309'  
 Mid. Ord. = 663.9439'  
 P.C. Station 101+79.39 N 1,784,214.7922 E 2,246,233.3295  
 P.T. Station 153+46.70 N 1,779,945.3200 E 2,248,703.0450  
 C.C. N 1,779,952.8920 E 2,243,790.8940

Course from PT 08403210 to PC 08403220 180° 05' 17.95" Dist 14,136.3378'

Curve Data  
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Curve 08403220  
 P.I. Station 303+88.83 N 1,764,903.2110 E 2,248,679.8577  
 Delta = 17° 57' 30.84" (LT)  
 Degree = 0° 59' 58.26"  
 Tangent = 905.7891'  
 Length = 1,796.7227'  
 Radius = 5,732.3415'  
 External = 71.1224'  
 Long Chord = 1,789.3770'  
 Mid. Ord. = 70.2508'  
 P.C. Station 294+83.04 N 1,765,808.9990 E 2,248,681.2540  
 P.T. Station 312+79.76 N 1,764,041.1227 E 2,248,957.8103  
 C.C. N 1,765,800.1627 E 2,254,413.5887

Course from PT 08403220 to PC 08403230 162° 07' 47.12" Dist 726.7187'

Curve Data  
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Curve 08403230  
 P.I. Station 329+20.55 N 1,762,479.4968 E 2,249,461.3063  
 Delta = 18° 02' 27.37" (RT)  
 Degree = 0° 59' 42.30"  
 Tangent = 914.0688'  
 Length = 1,813.0082'  
 Radius = 5,757.8894'  
 External = 72.1031'  
 Long Chord = 1,805.5278'  
 Mid. Ord. = 71.2113'  
 P.C. Station 320+06.48 N 1,763,349.4653 E 2,249,180.8130  
 P.T. Station 338+19.49 N 1,761,565.4321 E 2,249,458.5832  
 C.C. N 1,761,582.5857 E 2,243,700.7193

Course from PT 08403230 to PC 08403240 180° 10' 14.49" Dist 14,012.7231'

Curve Data  
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Curve 08403240  
 P.I. Station 499+04.84 N 1,745,480.1504 E 2,249,410.6627  
 Delta = 20° 29' 25.12" (LT)  
 Degree = 0° 29' 58.72"  
 Tangent = 2,072.6299'  
 Length = 4,100.9857'  
 Radius = 11,467.3307'  
 External = 185.8006'  
 Long Chord = 4,079.1668'  
 Mid. Ord. = 182.8381'  
 P.C. Station 478+32.21 N 1,747,552.7712 E 2,249,416.8373  
 P.T. Station 519+33.20 N 1,743,536.5001 E 2,250,130.3975  
 C.C. N 1,747,518.6084 E 2,260,884.1171

Course from PT 08403240 to PC 084031250 159° 40' 49.37" Dist 3,678.2502'

Curve Data  
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Curve 084031250  
 P.I. Station 563+66.76 N 1,739,378.8367 E 2,251,669.9826  
 Delta = 7° 33' 51.25" (RT)  
 Degree = 0° 30' 05.27"  
 Tangent = 755.3135'  
 Length = 1,508.4321'  
 Radius = 11,425.7143'  
 External = 24.9383'  
 Long Chord = 1,507.3369'  
 Mid. Ord. = 24.8840'  
 P.C. Station 556+11.45 N 1,740,087.1471 E 2,251,407.6948  
 P.T. Station 571+19.88 N 1,738,642.1632 E 2,251,836.7475  
 C.C. N 1,736,119.4903 E 2,240,693.0018

Course from PT 084031250 to PC AMT250 91° 21' 10.29" Dist 3,070.8295'

Curve Data  
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Curve AMT250  
 P.I. Station 607+11.08 N 1,738,557.3762 E 2,255,426.9492  
 Delta = 1° 45' 31.13" (LT)  
 Degree = 0° 10' 08.37"  
 Tangent = 520.3732'  
 Length = 1,040.6647'  
 Radius = 33,904.3046'  
 External = 3.9932'  
 Long Chord = 1,040.6238'  
 Mid. Ord. = 3.9927'  
 P.C. Station 601+90.71 N 1,738,569.6620 E 2,254,906.7210  
 P.T. Station 612+31.38 N 1,738,561.0616 E 2,255,947.3093  
 C.C. N 1,772,464.5159 E 2,255,707.1895

Course from PT AMT250 to PC AMT260 89° 35' 39.16" Dist 3,799.9803'

FILE NAME =	USER NAME = ranke	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING HORIZONTAL &amp; VERTICAL CONTROL</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -		CONTRACT NO. 64H77								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								