

# HORIZONTAL & VERTICAL CONTROL

Course from PT 01800320 to PC 01800330 103° 48' 40.2250" Dist 805.7940'

Curve Data  
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Curve 01800330  
Feature: 111  
P.I. Station 1151+79.7270 N 1,871,401.0637 E 2,357,837.0803  
Delta = 0° 13' 48.5163" (RT)  
Degree = 0° 01' 43.5647"  
Tangent = 400.0000'  
Length = 799.9989'  
Radius = 199,165.2024'  
External = 0.4017'  
Long Chord = 799.9984'  
Mid. Ord. = 0.4017'  
P.C. Station 1147+79.7270 N 1,871,496.5529 E 2,357,448.6452  
P.T. Station 1155+79.7260 N 1,871,304.0151 E 2,358,225.1287  
C.C. N 1,678,089.6658 E 2,309,903.3624

Course from PT 01800330 to PC 01800340 104° 02' 28.7413" Dist 1,591.8617'

Curve Data  
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Curve 01800340  
Feature: 111  
P.I. Station 1176+71.5877 N 1,870,796.4844 E 2,360,254.4878  
Delta = 0° 50' 57.5647" (RT)  
Degree = 0° 05' 05.7621"  
Tangent = 500.0000'  
Length = 999.9817'  
Radius = 67,459.2530'  
External = 1.8529'  
Long Chord = 999.9725'  
Mid. Ord. = 1.8529'  
P.C. Station 1171+71.5877 N 1,870,917.7952 E 2,359,769.4273  
P.T. Station 1181+71.5694 N 1,870,667.9970 E 2,360,737.6968  
C.C. N 1,805,474.1559 E 2,343,402.3600

Course from PT 01800340 to PC 370 104° 53' 26.3060" Dist 2,977.0783'

Curve Data  
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Curve 370  
Feature: 111  
P.I. Station 1216+32.8079 N 1,869,778.5454 E 2,364,082.7003  
Delta = 0° 36' 47.6564" (LT)  
Degree = 0° 03' 47.9904"  
Tangent = 484.1603'  
Length = 968.3113'  
Radius = 90,470.8481'  
External = 1.2955'  
Long Chord = 968.3067'  
Mid. Ord. = 1.2955'  
P.C. Station 1211+48.6476 N 1,869,902.9625 E 2,363,614.7990  
P.T. Station 1221+16.9589 N 1,869,659.1434 E 2,364,551.9063  
C.C. N 1,957,335.6249 E 2,386,863.5388

Course from PT 370 to PC 380 104° 16' 38.6496" Dist 1,187.5251'

Curve Data  
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Curve 380  
Feature: 111  
P.I. Station 1239+80.1924 N 1,869,199.6387 E 2,366,357.5902  
Delta = 2° 18' 04.8204" (RT)  
Degree = 0° 10' 13.1295"  
Tangent = 675.7084'  
Length = 1,351.2350'  
Radius = 33,641.3130'  
External = 6.7853'  
Long Chord = 1,351.1442'  
Mid. Ord. = 6.7840'  
P.C. Station 1233+04.4841 N 1,869,366.2797 E 2,365,702.7524  
P.T. Station 1246+55.7191 N 1,869,006.8369 E 2,367,005.2084  
C.C. N 1,836,764.0435 E 2,357,406.2389

Course from PT 380 to PC 390 106° 34' 43.4700" Dist 2,167.7319'

Curve Data  
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Curve 390  
Feature: 111  
P.I. Station 1273+65.2953 N 1,868,233.7060 E 2,369,602.1435  
Delta = 3° 11' 12.9247" (LT)  
Degree = 0° 17' 38.9651"  
Tangent = 541.8443'  
Length = 1,083.4091'  
Radius = 19,477.9604'  
External = 7.5351'  
Long Chord = 1,083.2695'  
Mid. Ord. = 7.5322'  
P.C. Station 1268+23.4510 N 1,868,388.3119 E 2,369,082.8245  
P.T. Station 1279+06.8602 N 1,868,108.2100 E 2,370,129.2544  
C.C. N 1,887,056.5444 E 2,374,640.5251

Course from PT 390 to PC 1200 103° 23' 30.5453" Dist 1,004.6242'

Curve Data  
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Curve 1200  
Feature: 111  
P.I. Station 1296+57.7846 N 1,867,702.6802 E 2,371,832.5694  
Delta = 2° 30' 40.9990" (RT)  
Degree = 0° 10' 05.8183"  
Tangent = 746.3002'  
Length = 1,492.3614'  
Radius = 34,047.3042'  
External = 8.1783'  
Long Chord = 1,492.2420'  
Mid. Ord. = 8.1763'  
P.C. Station 1289+11.4843 N 1,867,875.5300 E 2,371,106.5618  
P.T. Station 1304+03.8458 N 1,867,498.1842 E 2,372,550.3057  
C.C. N 1,834,754.0073 E 2,363,220.9002

Course from PT 1200 to PC 1210 105° 54' 11.5443" Dist 1,685.9537'

Curve Data  
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Curve 1210  
Feature: 111  
P.I. Station 1325+59.1148 N 1,866,907.6123 E 2,374,623.0839  
Delta = 0° 44' 30.2175" (LT)  
Degree = 0° 04' 44.4841"  
Tangent = 469.3153'  
Length = 938.6175'  
Radius = 72,504.8673'  
External = 1.5189'  
Long Chord = 938.6110'  
Mid. Ord. = 1.5189'  
P.C. Station 1320+89.7995 N 1,867,036.2109 E 2,374,171.7311  
P.T. Station 1330+28.4170 N 1,866,784.8675 E 2,375,076.0635  
C.C. N 1,936,766.0251 E 2,394,039.0106

Course from PT 1210 to PC 1220 105° 09' 41.3269" Dist 1,124.5723'

Curve Data  
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Curve 1220  
Feature: 111  
P.I. Station 1350+92.4006 N 1,866,245.0525 E 2,377,068.2051  
Delta = 9° 17' 40.7578" (LT)  
Degree = 0° 29' 44.8587"  
Tangent = 939.4114'  
Length = 1,874.7007'  
Radius = 11,556.3661'  
External = 38.1193'  
Long Chord = 1,872.6457'  
Mid. Ord. = 37.9940'  
P.C. Station 1341+52.9893 N 1,866,490.7464 E 2,376,161.4923  
P.T. Station 1360+27.6899 N 1,866,149.0291 E 2,378,002.6960  
C.C. N 1,877,644.8649 E 2,379,183.9481

Course from PT 1220 to PC 1230 95° 52' 00.5691" Dist 3,304.1083'

Curve Data  
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Curve 1230  
Feature: 111  
P.I. Station 1405+52.3850 N 1,865,686.5303 E 2,382,503.6915  
Delta = 12° 12' 25.9655" (LT)  
Degree = 0° 30' 07.0391"  
Tangent = 1,220.5867'  
Length = 2,431.9321'  
Radius = 11,414.5179'  
External = 65.0749'  
Long Chord = 2,427.3351'  
Mid. Ord. = 64.7060'  
P.C. Station 1393+31.7982 N 1,865,811.2945 E 2,381,289.4980  
P.T. Station 1417+63.7304 N 1,865,821.3257 E 2,383,716.8123  
C.C. N 1,877,166.0250 E 2,382,456.2508

Course from PT 1230 to PC 1240 83° 39' 34.6035" Dist 5,723.4277'

Curve Data  
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Curve 1240  
Feature: 111  
P.I. Station 1483+63.1704 N 1,866,550.1344 E 2,390,275.8860  
Delta = 5° 46' 04.4054" (RT)  
Degree = 0° 19' 46.1681"  
Tangent = 876.0124'  
Length = 1,750.5449'  
Radius = 17,389.1709'  
External = 22.0514'  
Long Chord = 1,749.8058'  
Mid. Ord. = 22.0235'  
P.C. Station 1474+87.1581 N 1,866,453.3920 E 2,389,405.2318  
P.T. Station 1492+37.7029 N 1,866,558.8873 E 2,391,151.8546  
C.C. N 1,849,170.5844 E 2,391,325.6037

Course from PT 1240 to PC 1250 89° 25' 39.0090" Dist 3,989.6068'

Curve Data  
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Curve 1250  
Feature: 111  
P.I. Station 1544+65.3062 N 1,866,611.1205 E 2,396,379.1969  
Delta = 53° 25' 19.0606" (RT)  
Degree = 2° 19' 43.7014"  
Tangent = 1,237.9964'  
Length = 2,293.9636'  
Radius = 2,460.3072'  
External = 293.9162'  
Long Chord = 2,211.7679'  
Mid. Ord. = 262.5510'  
P.C. Station 1532+27.3097 N 1,866,598.7507 E 2,395,141.2622  
P.T. Station 1555+21.2734 N 1,865,624.3735 E 2,397,126.8368  
C.C. N 1,864,138.5663 E 2,395,165.8451

Course from PT 1250 to PC 1260 142° 50' 56.6418" Dist 5,049.5084'

Curve Data  
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Curve 1260  
Feature: 111  
P.I. Station 1607+43.9637 N 1,861,461.6416 E 2,400,280.9068  
Delta = 8° 09' 38.2937" (RT)  
Degree = 2° 21' 36.2850"  
Tangent = 173.1819'  
Length = 345.7781'  
Radius = 2,427.7058'  
External = 6.1692'  
Long Chord = 345.4859'  
Mid. Ord. = 6.1535'  
P.C. Station 1605+70.7818 N 1,861,599.6759 E 2,400,176.3196  
P.T. Station 1609+16.5599 N 1,861,310.1589 E 2,400,364.8412  
C.C. N 1,860,133.5463 E 2,398,241.3210

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HORIZONTAL &amp; VERTICAL CONTROL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PWIDOT\HENSONKE\d0128026\0221788-sh1-ATB.dgn		DRAWN -	REVISED -			309	(20-1)M	WHITESIDE	53	17	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64F37					
PLOT DATE = Tue Dec 01 11:54:34 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: SHEET NO. OF SHEETS STA. TO STA.											