

PROPOSED HORIZONTAL CONTROL

Curve Data

Curve 60220
 P.I. Station 617+80.75 N 1,953,521.4795 E 726,115.4823
 Delta = 8° 50' 14.23" (LT)
 Degree = 1° 54' 35.49"
 Tangent = 231.8194'
 Length = 462.7193'
 Radius = 3,000.0000'
 External = 8.9434'
 Long Chord = 462.2607'
 Mid. Ord. = 8.9168'
 P.C. Station 615+48.93 N 1,953,299.7425 E 726,183.1059
 P.T. Station 620+11.65 N 1,953,730.1952 E 726,014.5962
 C.C. N 1,952,424.6179 E 723,313.5838

End Region 1

Equation: Sta 620+11.65 (BK) = Sta 620+12.36 (AH) -----

Begin Region 2

Point 100001 N 1,953,730.1952 E 726,014.5962 Sta 620+12.36

Course from 100001 to PC 70240 334° 12' 08.86" Dist 747.4260'

Curve Data

Curve 70240
 P.I. Station 629+83.81 N 1,954,604.8316 E 725,591.8268
 Delta = 10° 14' 28.79" (RT)
 Degree = 2° 17' 30.59"
 Tangent = 224.0280'
 Length = 446.8624'
 Radius = 2,500.0000'
 External = 10.0176'
 Long Chord = 446.2677'
 Mid. Ord. = 9.9777'
 P.C. Station 627+59.79 N 1,954,403.1309 E 725,689.3221
 P.T. Station 632+06.65 N 1,954,820.6530 E 725,531.7462
 C.C. N 1,955,491.1119 E 727,940.1657

Course from PT 70240 to PC 70250 344° 26' 37.65" Dist 225.0266'

Curve Data

Curve 70250
 P.I. Station 638+41.23 N 1,955,431.9861 E 725,361.5625
 Delta = 31° 54' 45.88" (LT)
 Degree = 3° 59' 59.99"
 Tangent = 409.5525'
 Length = 797.8189'
 Radius = 1,432.3950'
 External = 57.3999'
 Long Chord = 787.5460'
 Mid. Ord. = 55.1883'
 P.C. Station 634+31.68 N 1,955,037.4364 E 725,471.3977
 P.T. Station 642+29.49 N 1,955,708.8394 E 725,059.7587
 C.C. N 1,954,653.2916 E 724,091.4745

Course from PT 70250 to PC 70260 312° 31' 51.78" Dist 246.0064'

Curve Data

Curve 70260
 P.I. Station 650+08.08 N 1,956,235.1536 E 724,486.0120
 Delta = 40° 47' 28.59" (RT)
 Degree = 4° 00' 00.05"
 Tangent = 532.5769'
 Length = 1,019.7787'
 Radius = 1,432.3900'
 External = 95.8048'
 Long Chord = 998.3778'
 Mid. Ord. = 89.7986'
 P.C. Station 644+75.50 N 1,955,875.1372 E 724,878.4738
 P.T. Station 654+95.28 N 1,956,764.1176 E 724,424.0819
 C.C. N 1,956,930.6813 E 725,846.7546

Course from PT 70260 to PC 70270 353° 19' 20.37" Dist 2,382.0455'

Curve Data

Curve 70270
 P.I. Station 682+45.18 N 1,959,495.3667 E 724,104.3127
 Delta = 27° 33' 30.48" (LT)
 Degree = 3° 49' 10.99"
 Tangent = 367.8589'
 Length = 721.4790'
 Radius = 1,500.0000'
 External = 44.4482'
 Long Chord = 714.5444'
 Mid. Ord. = 43.1690'
 P.C. Station 678+77.32 N 1,959,130.0033 E 724,147.0887
 P.T. Station 685+98.80 N 1,959,799.4852 E 723,897.3534
 C.C. N 1,958,955.5777 E 722,657.2647

Course from PT 70270 to PC 70280 325° 45' 49.89" Dist 562.6274'

Curve Data

Curve 70280
 P.I. Station 694+01.44 N 1,960,463.0425 E 723,445.7882
 Delta = 3° 59' 29.42" (LT)
 Degree = 0° 49' 54.77"
 Tangent = 240.0054'
 Length = 479.8167'
 Radius = 6,887.4955'
 External = 4.1804'
 Long Chord = 479.7197'
 Mid. Ord. = 4.1779'
 P.C. Station 691+61.43 N 1,960,264.6238 E 723,580.8165
 P.T. Station 696+41.25 N 1,960,651.5808 E 723,297.2758
 C.C. N 1,956,389.6844 E 717,886.7459

Course from PT 70280 to PC 70290 321° 46' 20.47" Dist 160.9428'

Curve Data

Curve 70290
 P.I. Station 703+43.19 N 1,961,203.0011 E 722,862.9198
 Delta = 16° 10' 22.90" (RT)
 Degree = 1° 30' 17.02"
 Tangent = 541.0041'
 Length = 1,074.8144'
 Radius = 3,807.7178'
 External = 38.2412'
 Long Chord = 1,071.2497'
 Mid. Ord. = 37.8609'
 P.C. Station 698+02.19 N 1,960,778.0107 E 723,197.6864
 P.T. Station 708+77.00 N 1,961,704.4180 E 722,659.7780
 C.C. N 1,963,134.1791 E 726,188.8711

Course from PT 70290 to PC 70300 337° 56' 43.37" Dist 521.0731'

Curve Data

Curve 70300
 P.I. Station 719+72.11 N 1,962,719.3886 E 722,248.5773
 Delta = 43° 40' 36.31" (RT)
 Degree = 3° 59' 59.99"
 Tangent = 574.0303'
 Length = 1,091.9192'
 Radius = 1,432.3950'
 External = 110.7402'
 Long Chord = 1,065.6722'
 Mid. Ord. = 102.7931'
 P.C. Station 713+98.08 N 1,962,187.3622 E 722,464.1201
 P.T. Station 724+90.00 N 1,963,253.0268 E 722,460.0981
 C.C. N 1,962,725.2126 E 723,791.7015

Course from PT 70300 to PC 73220 21° 37' 19.68" Dist 231.0332'

Curve Data

Curve 73220
 P.I. Station 727+71.83 N 1,963,515.0254 E 722,563.9478
 Delta = 0° 43' 39.35" (RT)
 Degree = 0° 42' 58.31"
 Tangent = 50.7965'
 Length = 101.5916'
 Radius = 8,000.0000'
 External = 0.1613'
 Long Chord = 101.5909'
 Mid. Ord. = 0.1613'
 P.C. Station 727+21.03 N 1,963,467.8032 E 722,545.2301
 P.T. Station 728+22.62 N 1,963,562.0060 E 722,583.2636
 C.C. N 1,960,519.9337 E 729,982.3038

Course from PT 73220 to PC 73230 22° 20' 59.03" Dist 1,014.4126'

Curve Data

Curve 73230
 P.I. Station 745+42.65 N 1,965,152.8228 E 723,237.3187
 Delta = 14° 33' 39.33" (RT)
 Degree = 1° 02' 14.58"
 Tangent = 705.6124'
 Length = 1,403.6212'
 Radius = 5,523.1086'
 External = 44.8908'
 Long Chord = 1,399.8471'
 Mid. Ord. = 44.5289'
 P.C. Station 738+37.03 N 1,964,500.2160 E 722,969.0032
 P.T. Station 752+40.66 N 1,965,717.0114 E 723,661.0875
 C.C. N 1,962,400.0040 E 728,077.2160

Curve Data

Curve 70330
 P.I. Station 759+30.94 N 1,966,268.9406 E 724,075.6482
 Delta = 14° 28' 46.82" (RT)
 Degree = 1° 03' 16.00"
 Tangent = 690.2799'
 Length = 1,373.2044'
 Radius = 5,433.7426'
 External = 43.6697'
 Long Chord = 1,369.5530'
 Mid. Ord. = 43.3215'
 P.C. Station 752+40.66 N 1,965,717.0114 E 723,661.0875
 P.T. Station 766+13.86 N 1,966,699.6832 E 724,615.0434
 C.C. N 1,962,453.6745 E 728,005.7613

Course from PT 70330 to PC 70340 51° 23' 25.18" Dist 654.5490'

Curve Data

Curve 70340
 P.I. Station 776+28.99 N 1,967,333.1330 E 725,408.2775
 Delta = 16° 42' 26.94" (LT)
 Degree = 2° 20' 00.00"
 Tangent = 360.5762'
 Length = 716.0352'
 Radius = 2,455.5340'
 External = 26.3327'
 Long Chord = 713.5010'
 Mid. Ord. = 26.0533'
 P.C. Station 772+68.41 N 1,967,108.1293 E 725,126.5178
 P.T. Station 779+84.44 N 1,967,629.6401 E 725,613.4574
 C.C. N 1,969,026.9207 E 723,594.2363

Course from PT 70340 to PC 70350 34° 40' 58.24" Dist 1,998.0267'

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
oi:\p_w\work\PIWIDOT\GRANTPM\dms31213\086688hvo.dgn		DRAWN -	REVISED -			742	3TR-4	OGLE	867	81	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 11:44:28 2010		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	