



Beginning chain US52 description
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Point 1243 N 1,977,225.2886 E 2,354,081.2810 Sta 656+42.7462
 Course from 1243 to 200 90° 30' 29.9089" Dist 1,666.4568'
 Point 200 N 1,977,210.5046 E 2,355,747.6722 Sta 673+09.2030
 Course from 200 to PC 210 90° 29' 40.5622" Dist 3,902.2863'

Curve Data

Curve 210
 P.I. Station 717+82.1291 N 1,977,171.8929 E 2,360,220.4317
 Delta = 1° 46' 31.6887" (LT)
 Degree = 0° 09' 20.0906"
 Tangent = 570.6399'
 Length = 1,141.1884'
 Radius = 36,827.0457'
 External = 4.4208'
 Long Chord = 1,141.1428'
 Mid. Ord. = 4.4203'
 P.C. Station 712+11.4893 N 1,977,176.8189 E 2,359,649.8131
 P.T. Station 723+52.6777 N 1,977,184.6487 E 2,360,790.9290
 C.C. N 2,014,002.4924 E 2,359,967.7152

Course from PT 210 to PC 220 88° 43' 08.8734" Dist 2,622.6588'

Curve Data

Curve 220
 P.I. Station 754+75.3365 N 1,977,254.4511 E 2,363,912.8075
 Delta = 0° 24' 48.9331" (RT)
 Degree = 0° 02' 28.8940"
 Tangent = 500.0000'
 Length = 999.9957'
 Radius = 138,531.3474'
 External = 0.9023'
 Long Chord = 999.9935'
 Mid. Ord. = 0.9023'
 P.C. Station 749+75.3365 N 1,977,243.2744 E 2,363,412.9324
 P.T. Station 759+75.3321 N 1,977,262.0192 E 2,364,412.7502
 C.C. N 1,838,746.5419 E 2,366,509.5943

Course from PT 220 to PC 230 89° 07' 57.8066" Dist 3,405.9847'

Curve Data

Curve 230
 P.I. Station 798+72.4839 N 1,977,321.0075 E 2,368,309.4555
 Delta = 1° 02' 02.8325" (RT)
 Degree = 0° 06' 18.9885"
 Tangent = 491.1670'
 Length = 982.3074'
 Radius = 54,425.0768'
 External = 2.2163'
 Long Chord = 982.2941'
 Mid. Ord. = 2.2162'
 P.C. Station 793+81.3169 N 1,977,313.5731 E 2,367,818.3447
 P.T. Station 803+63.6243 N 1,977,319.5772 E 2,368,800.6205
 C.C. N 1,922,894.7311 E 2,368,642.1359

Course from PT 230 to PC 240 90° 10' 00.6390" Dist 1,495.6423'

Curve Data

Curve 240
 P.I. Station 820+74.2665 N 1,977,314.5959 E 2,370,511.2555
 Delta = 3° 11' 50.8781" (LT)
 Degree = 0° 44' 37.6434"
 Tangent = 215.0000'
 Length = 429.8884'
 Radius = 7,703.2218'
 External = 2.9998'
 Long Chord = 429.8326'
 Mid. Ord. = 2.9986'
 P.C. Station 818+59.2665 N 1,977,315.2219 E 2,370,296.2564
 P.T. Station 822+89.1549 N 1,977,325.9628 E 2,370,725.9548
 C.C. N 1,985,018.4110 E 2,370,318.6880

Course from PT 240 to PC 250 86° 58' 09.7609" Dist 1,998.2201'

Curve Data

Curve 250
 P.I. Station 845+57.3750 N 1,977,445.8829 E 2,372,991.0026
 Delta = 5° 19' 40.3977" (RT)
 Degree = 0° 59' 14.4872"
 Tangent = 270.0000'
 Length = 539.6108'
 Radius = 5,802.9414'
 External = 6.2779'
 Long Chord = 539.4164'
 Mid. Ord. = 6.2711'
 P.C. Station 842+87.3750 N 1,977,431.6081 E 2,372,721.3802
 P.T. Station 848+26.9859 N 1,977,435.0602 E 2,373,260.7856
 C.C. N 1,971,636.7826 E 2,373,028.1798

Course from PT 250 to PC 260 92° 17' 50.1586" Dist 5,590.6011'

Curve Data

Curve 260
 P.I. Station 907+24.9723 N 1,977,198.6446 E 2,379,154.0319
 Delta = 15° 01' 44.9717" (LT)
 Degree = 2° 27' 31.6512"
 Tangent = 307.3853'
 Length = 611.2416'
 Radius = 2,330.2410'
 External = 20.1864'
 Long Chord = 609.4907'
 Mid. Ord. = 20.0130'
 P.C. Station 904+17.5870 N 1,977,210.9659 E 2,378,846.8936
 P.T. Station 910+28.8286 N 1,977,266.3890 E 2,379,453.8592
 C.C. N 1,979,539.3341 E 2,378,940.2993

Course from PT 260 to PC 270 77° 16' 05.1870" Dist 551.3968'

Curve Data

Curve 270
 P.I. Station 918+73.7705 N 1,977,452.6050 E 2,380,278.0257
 Delta = 11° 43' 11.3084" (RT)
 Degree = 2° 00' 11.6753"
 Tangent = 293.5451'
 Length = 585.0417'
 Radius = 2,860.1510'
 External = 15.0242'
 Long Chord = 584.0223'
 Mid. Ord. = 14.9457'
 P.C. Station 915+80.2254 N 1,977,387.9109 E 2,379,991.6983
 P.T. Station 921+65.2671 N 1,977,457.7900 E 2,380,571.5250
 C.C. N 1,974,598.0852 E 2,380,622.0446

Course from PT 270 to PC 280 88° 59' 16.4954" Dist 6,091.2812'

Curve Data

Curve 280
 P.I. Station 988+98.2602 N 1,977,576.7168 E 2,387,303.4676
 Delta = 1° 06' 23.7737" (RT)
 Degree = 0° 05' 10.4117"
 Tangent = 641.7119'
 Length = 1,283.3839'
 Radius = 66,448.7877'
 External = 3.0985'
 Long Chord = 1,283.3640'
 Mid. Ord. = 3.0984'
 P.C. Station 982+56.5483 N 1,977,565.3821 E 2,386,661.8558
 P.T. Station 995+39.9322 N 1,977,575.6582 E 2,387,945.1787
 C.C. N 1,911,126.9610 E 2,387,835.5601

Course from PT 280 to PC 290 90° 05' 40.2691" Dist 658.3613'

Curve Data

Curve 290
 P.I. Station 1006+98.2935 N 1,977,573.7473 E 2,389,103.5384
 Delta = 2° 48' 54.9376" (LT)
 Degree = 0° 16' 53.6977"
 Tangent = 500.0000'
 Length = 999.7988'
 Radius = 20,347.7627'
 External = 6.1423'
 Long Chord = 999.6982'
 Mid. Ord. = 6.1404'
 P.C. Station 1001+98.2935 N 1,977,574.5721 E 2,388,603.5391
 P.T. Station 1011+98.0923 N 1,977,597.4813 E 2,389,602.9748
 C.C. N 1,997,922.3071 E 2,388,637.1062

Course from PT 290 to 96 87° 16' 45.3315" Dist 492.6826'

Point 96 N 1,977,620.8680 E 2,390,095.1020 Sta 1016+90.7749

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 Ending chain US52 description

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|----------------------|--------------------|-----------------|-----------|---|---|---------------------------------------|--------------------|---------------------|---------|--------------|---------------------------|
| FILE NAME = | USER NAME = *USER* | DESIGNED - RAC | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ZROKA engineering Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613 | ALIGNMENT, TIES AND BENCHMARKS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| *FILEL* | | DRAWN - LCR | REVISED - | | | | 17 | 4BR-5 & 4BR-6 | CARROLL | 150 | 18 |
| PLOT SCALE = *SCALE* | | CHECKED - DAZ | REVISED - | | | | CONTRACT NO. 64D83 | | | | |
| PLOT DATE = *DATE* | | DATE - 06-28-13 | REVISED - | | | | SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |