| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 39 | • | WINNEBAGO | 317 | 14 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

# HORIZONTAL & VERTICAL CONTROL

Chain WBRDA contains:
60015 CUR 60260 CUR 60270 CUR 60280 CUR 60290 CUR 60300

Beginning chain WBRDA description
==========

Point 60015 N 2,025,007.3990 E 2,609,600.4980 Sta 57+00.0000

Course from 60015 to PC 60260 1• 21' 50.1391" Dist 158.7078'

Curve Data

Curve 60260
P.I. Station 59+81.5408 N 2,025,288.8600 E 2,609,607.1995
Delta = 18• 16' 07.2162" (RT)
Degree = 7• 30' 00.1317"
Tangent = 122.8330'
Length = 243.5811'
Radius = 763.9400'
External = 9.8121'
Long Chord = 242.5506'
Mid. Ord. = 9.6876'
P.C. Station 58+58.7078 N 2,025,166.0619 E 2,609,604.2757
P.T. Station 61+02.2889 N 2,025,404.5523 E 2,609,648.4698
C.C. N 2,025,147.8780 E 2,610,367.9992

Curve Data

Curve 60270
P.I. Station 64+39.0313 N 2,025,721.7186 E 2,609,761.6110
Delta = 70• 23' 20.3827" (RT)
Degree = 12• 00' 00.4319"
Tangent = 336.7424'
Length = 586.5691'
Radius = 477.4601'
External = 106.8032'
Long Chord = 550.3719'
Mid. Ord. = 87.2796'
P.C. Station 61+02.2889 N 2,025,404.5523 E 2,609,648.4698
P.T. Station 66+88.8580 N 2,025,721.5917 E 2,610,098.3533
C.C. N 2,025,244.1316 E 2,610,098.1734

Curve Data

Curve 60280
P.I. Station 74+11.6884 N 2,025,721.3192 E 2,610,821.1837
Delta = 127• 17' 28.0431" (RT)
Degree = 15• 59' 59.7795"
Tangent = 722.8304'
Length = 795.5726'
Radius = 358.1000'
External = 448.5718'
Long Chord = 641.7618'
Mid. Ord. = 199.1313'
P.C. Station 66+88.8580 N 2,025,721.5917 E 2,610,098.3533
P.T. Station 74+84.4306 N 2,025,146.4240 E 2,610,383.0293
C.C. N 2,025,363.4917 E 2,610,098.2184

Curve Data

Curve 60290
P.I. Station 77+11.7377 N 2,024,965.6379 E 2,610,245.2437
Delta = 50• 54' 57.4649" (RT)
Degree = 12• 00' 00.4341"
Tangent = 227.3071'
Length = 424.2954'
Radius = 477.4600'
External = 51.3467'
Long Chord = 410.4715'
Mid. Ord. = 46.3610'
P.C. Station 74+84.4306 N 2,025,146.4240 E 2,610,383.0293
P.T. Station 79+08.7260 N 2,024,958.6117 E 2,610,018.0452
C.C. N 2,025,435.8436 E 2,610,003.2867

Course from PT 60290 to PC 60300 268• 13' 43.2460" Dist 628.1784'

Curve Data

Curve 60300
P.I. Station 88+43.0417 N 2,024,929.7316 E 2,609,084.1760
Delta = 0• 51' 05.3687" (LT)
Degree = 0• 08' 20.6618"
Tangent = 306.1373'
Length = 612.2633'
Radius = 41,198.4300'
External = 1.1374'
Long Chord = 612.2577'
Mid. Ord. = 1.1374'
P.C. Station 85+36.9044 N 2,024,939.1944 E 2,609,390.1670
P.T. Station 91+49.1677 N 2,024,915.7225 E 2,608,778.3594
C.C. N 1,983,760.4508 E 2,610,663.6291

==========
Ending chain WBRDA description

| CURVE POINT NUMBERS | | | | |
|---|---|---|---|---|
| CURVE | PI | CC | PC | PT |
| 60260 | 60260 | 60261 | 60262 | 60263 |
| 60270 | 60270 | 60271 | 60272 | 60273 |
| 60280 | 60280 | 60281 | 60282 | 60283 |
| 60290 | 60290 | 60291 | 60292 | 60293 |
| 60300 | 60300 | 60301 | 60302 | 60303 |

Chain NBRDB contains:
60018 CUR 60340 CUR 60350 60019

Beginning chain NBRDB description
==========

Point 60018 N 2,022,104.0104 E 2,609,567.9361 Sta 31+00.0000

Course from 60018 to PC 60340 4• 52' 22.4334" Dist 474.5998'

Curve Data

Curve 60340
P.I. Station 38+38.5088 N 2,022,839.8499 E 2,609,630.6692
Delta = 25• 56' 18.6928" (RT)
Degree = 4• 59' 59.9307"
Tangent = 263.9090'
Length = 518.7725'
Radius = 1,145.9200'
External = 29.9969'
Long Chord = 514.3538'
Mid. Ord. = 29.2317'
P.C. Station 35+74.5998 N 2,022,576.8947 E 2,609,608.2513
P.T. Station 40+93.3723 N 2,023,066.5102 E 2,609,765.8471
C.C. N 2,022,479.5538 E 2,610,750.0294

Course from PT 60340 to PC 60350 30• 48' 41.1262" Dist 1,412.0538'

Curve Data

Curve 60350
P.I. Station 61+32.3306 N 2,024,817.6855 E 2,610,810.2304
Delta = 57• 21' 50.2408" (RT)
Degree = 4• 59' 59.9307"
Tangent = 626.9045'
Length = 1,147.2835'
Radius = 1,145.9200'
External = 160.2737'
Long Chord = 1,099.9630'
Mid. Ord. = 140.6076'
P.C. Station 55+05.4261 N 2,024,279.2637 E 2,610,489.1210
P.T. Station 66+52.7096 N 2,024,837.6463 E 2,611,436.8170
C.C. N 2,023,692.3073 E 2,611,473.3033

Course from PT 60350 to 60019 88• 10' 31.3670" Dist 450.1143'

Point 60019 N 2,024,851.9780 E 2,611,886.7030 Sta 71+02.8239

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Ending chain NBRDB description

| CURVE POINT NUMBERS | | | | |
|---|---|---|---|---|
| CURVE | PI | CC | PC | PT |
| 60340 | 60340 | 60341 | 60342 | 60343 |
| 60350 | 60350 | 60351 | 60352 | 60353 |

Chain SBRAD contains:
60020 CUR 60360 CUR 60370 CUR 60380

Beginning chain SBRAD description
==========

Point 60020 N 2,024,761.3370 E 2,607,478.4090 Sta 45+72.6400

Course from 60020 to PC 60360 91• 03' 49.2772" Dist 339.8773'

Curve Data

Curve 60360
P.I. Station 55+08.0449 N 2,024,743.9723 E 2,608,413.6527
Delta = 75• 52' 34.4041" (RT)
Degree = 7• 30' 00.1317"
Tangent = 595.5276'
Length = 1,011.6780'
Radius = 763.9400'
External = 204.6969'
Long Chord = 939.3558'
Mid. Ord. = 161.4394'
P.C. Station 49+12.5173 N 2,024,755.0276 E 2,607,818.2278
P.T. Station 59+24.1954 N 2,024,163.8489 E 2,608,548.2258
C.C. N 2,023,991.2192 E 2,607,804.0461

Course from PT 60360 to PC 60370 166• 56' 23.6813" Dist 3,209.7199'

Curve Data

Curve 60370
P.I. Station 94+26.7839 N 2,020,751.8597 E 2,609,339.7155
Delta = 28• 40' 22.7046" (RT)
Degree = 4• 59' 59.9307"
Tangent = 292.8686'
Length = 573.4617'
Radius = 1,145.9200'
External = 36.8330'
Long Chord = 567.4964'
Mid. Ord. = 35.6860'
P.C. Station 91+33.9152 N 2,021,037.1529 E 2,609,273.5351
P.T. Station 97+07.3769 N 2,020,469.7973 E 2,609,260.8939
C.C. N 2,020,778.2061 E 2,608,157.2559

Curve Data

Curve 60380
P.I. Station 97+57.3830 N 2,020,421.6364 E 2,609,247.4354
Delta = 2• 09' 12.9491" (RT)
Degree = 2• 09' 12.9170"
Tangent = 50.0061'
Length = 100.0004'
Radius = 2,660.4800'
External = 0.4699'
Long Chord = 99.9945'
Mid. Ord. = 0.4698'
P.C. Station 97+07.3769 N 2,020,469.7973 E 2,609,260.8939
P.T. Station 98+07.3773 N 2,020,374.0152 E 2,609,232.1766
C.C. N 2,021,185.8294 E 2,606,698.5801

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Ending chain SBRAD description

| CURVE POINT NUMBERS | | | | |
|---|---|---|---|---|
| CURVE | PI | CC | PC | PT |
| 60360 | 60360 | 60361 | 60362 | 60363 |
| 60370 | 60370 | 60371 | 60372 | 60373 |
| 60380 | 60380 | 60381 | 60382 | 60383 |

| REVISIONS | |
|---|---|
| NAME | DATE |

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = Thu Dec 23 09:27:52 2004
FILE NAME = c:\projects\k21269\k212698hvc.dgn
PLOT SCALE = 1200.0000 ' / IN.
REFERENCE = $REF$