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|---------------------|---------|---------------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 654 | 109M | CARROLL | 76 | 20 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

HORIZONTAL & VERTICAL CONTROL

Chain 73 contains:
21 CUR 200 1005

Beginning chain 73 description

Point 21 N 1,999,272.8610 E 2,389,522.1510 Sta 222+36.5521

Course from 21 to PC 200 358° 35' 03.4211" Dist 7,907.8400'

Curve Data

Curve 200

P.I. Station 306+45.9828 N 2,007,679.7247 E 2,389,314.3843

Delta = 0° 27' 10.9780" (RT)

Degree = 0° 02' 42.5814"

Tangent = 501.5907'

Length = 1,003.1762'

Radius = 126,868.6263'

External = 0.9915'

Long Chord = 1,003.1736'

Mid. Ord. = 0.9915'

P.C. Station 301+44.3921 N 2,007,178.2871 E 2,389,326.7768

P.T. Station 311+47.5682 N 2,008,181.2446 E 2,389,305.9571

C.C. N 2,010,312.7538 E 2,516,156.6764

Course from PT 200 to 1005 359° 02' 14.3991" Dist 13,562.4132'

Point 1005 N 2,021,741.7435 E 2,389,078.0961 Sta 447+09.9814

Ending chain 73 description

Chain PAYNE-W contains:

56 55

Beginning chain PAYNE-W description

Point 56 N 2,004,259.72 E 2,388,717.37 Sta 20+00.0000

Course from 56 to 55 88° 23' 23.4461" Dist 681.33'

Point 55 N 2,004,278.87 E 2,389,398.43 Sta 26+81.3280

Ending chain PAYNE-W description

Chain PAYNE-E contains:

54 50

Beginning chain PAYNE-E description

Point 54 N 2,004,280.29 E 2,389,398.40 Sta 26+81.3280

Course from 54 to 50 89° 31' 55.4120" Dist 822.36'

Point 50 N 2,004,287.01 E 2,390,220.73 Sta 35+03.6838

Ending chain PAYNE-E description

| SURVEY WORK POINTS | | | | | | | |
|--------------------|--------------|--------------|-----------|-------|-------------|--------------|-------------------------|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 100 | 2004243.1860 | 2389157.3400 | 873.7630 | 73 | 272+14.3731 | 241.9008' LT | TOPO SURVEY POINT, NAIL |
| 101 | 2003994.3070 | 2389381.7740 | 868.1350 | 73 | 269+60.0251 | 23.6842' LT | TOPO SURVEY POINT, NAIL |
| 102 | 2003111.1450 | 2389360.6980 | 891.7840 | 73 | 260+77.6534 | 66.5735' LT | TOPO SURVEY POINT, NAIL |
| 103 | 2004358.8070 | 2389441.4040 | 886.6700 | 73 | 273+22.9406 | 44.9331' RT | GPS CONTROL POINT, NAIL |
| 104 | 2005425.1920 | 2389323.3770 | 861.4850 | 73 | 283+91.9161 | 46.7114' LT | TOPO SURVEY POINT, NAIL |

| BENCH MARKS | | | | | | | |
|-------------|--------------|--------------|-----------|-------|-------------|-------------|--|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 401 | 2003025.6046 | 2389466.2979 | 897.1490 | 73 | 259+89.5301 | 36.8807' RT | DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER |
| 402 | 2003855.3646 | 2389445.4024 | 855.7670 | 73 | 268+19.5531 | 36.492' RT | HEADWALL, CHISELED SQUARE |
| 403 | 2004809.5689 | 2389364.1543 | 876.9770 | 73 | 277+75.4734 | 21.1563' LT | HEADWALL, CHISELED SQUARE |
| 404 | 2005529.7240 | 2389389.5340 | 868.0780 | 73 | 284+94.7817 | 22.008' RT | HEADWALL, CHISELED SQUARE |

| REFERENCE TIES | | | | |
|----------------|-------|-------------|--------------|-------------------------------|
| POINT | CHAIN | STATION | OFFSET | DESCRIPTION |
| 500 | 73 | 272+23.4608 | 894.7276' LT | 1.3' PIPE CULVERT, END |
| 501 | 73 | 272+26.9666 | 867.6387' LT | MAILBOX, SHINER |
| 502 | 73 | 272+19.4749 | 965.1675' LT | POWER POLE, SHINER |
| 503 | 73 | 271+98.0853 | 50.6061' RT | POWER POLE WITH LIGHT, SHINER |
| 504 | 73 | 272+83.3693 | 38.2223' RT | POWER POLE, SHINER |
| 505 | 73 | 272+11.5872 | 52.5582' RT | R.O.W. MARKER, TOP |
| 506 | 73 | 259+05.6580 | 39.0545' LT | GUY POLE, SHINER |
| 507 | 73 | 259+08.2144 | 38.3493' RT | POWER POLE, SHINER |
| 508 | 73 | 260+54.7755 | 48.4953' RT | POWER POLE, SHINER |
| 509 | 73 | 279+39.3581 | 37.4312' RT | POWER POLE, SHINER |
| 510 | 73 | 277+67.8558 | 37.6701' RT | POWER POLE, SHINER |
| 511 | 73 | 279+16.7723 | 43.2014' LT | FENCE POST, SHINER |

| APPARENT PROPERTY CORNERS | | | | | | | |
|---------------------------|--------------|--------------|-----------|-------|-------------|-------------|----------------------|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 701 | 2004949.3440 | 2389338.9950 | 876.9560 | 73 | 279+15.8275 | 42.8546' LT | PROPERTY CORNER, PIN |

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|--|
| NAME | DATE | |
| | | SCALE: VERT. HORIZ. DATE DRAWN BY CHECKED BY |
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PLOT DATE = Thu Dec 13 14:49:18 2007
 FILE NAME = c:\projects\2009\95_488\98\hvo.dgn
 PLOT SCALE = 500000 / IN.
 USER NAME = gmfj