

# EXISTING HORIZONTAL & VERTICAL CONTROL

| BENCH MARKS |              |              |           |        |             |             |                        |
|-------------|--------------|--------------|-----------|--------|-------------|-------------|------------------------|
| POINT       | NORTH        | EAST         | ELEVATION | CHAIN  | STATION     | OFFSET      | DESCRIPTION            |
| 401         | 1738616.0704 | 2252117.2883 | 694.0429  | D2_I74 | 735+17.9627 | 268.183' LT | SURVEY WORK POINT, PIN |
| 410         | 1738798.8524 | 2245879.0845 | 684.1104  | D2_I74 | 674+72.8313 | 0.0189' RT  | SURVEY WORK POINT, PIN |

| HORIZONTAL CONTROL POINTS |              |              |           |         |             |              |                        |
|---------------------------|--------------|--------------|-----------|---------|-------------|--------------|------------------------|
| POINT                     | NORTH        | EAST         | ELEVATION | CHAIN   | STATION     | OFFSET       | DESCRIPTION            |
| 88                        | 1738581.5347 | 2261907.9832 | 684.2874  | D2_I-80 | 671+92.1660 | 9.8803' RT   | SURVEY WORK POINT, PIN |
| 89                        | 1738603.0856 | 2261514.3236 | 689.2488  | D2_I-80 | 667+98.4847 | 11.2705' LT  | SURVEY WORK POINT, PIN |
| 90                        | 1738584.1421 | 2258306.2676 | 692.3126  | D2_I-80 | 635+90.4388 | 6.3731' LT   | SURVEY WORK POINT, PIN |
| 91                        | 1738581.5528 | 2257962.7905 | 690.7043  | D2_I-80 | 632+46.9519 | 6.2165' LT   | SURVEY WORK POINT, PIN |
| 92                        | 1738574.9910 | 2254168.1863 | 704.6878  | D2_I-80 | 594+52.2568 | 12.109' RT   | SURVEY WORK POINT, PIN |
| 93                        | 1738605.7628 | 2253774.2078 | 703.8256  | D2_I-80 | 590+57.6616 | 9.3525' LT   | SURVEY WORK POINT, PIN |
| 94                        | 1738625.7312 | 2252092.3274 | 693.1603  | D2_I-80 | 573+75.7786 | 10.3933' RT  | SURVEY WORK POINT, PIN |
| 95                        | 1738665.3418 | 2251667.2863 | 688.2727  | D2_I-80 | 570+59.0075 | 160.0017' RT | SURVEY WORK POINT, PIN |
| 96                        | 1738666.5623 | 2251519.2530 | 686.1809  | D2_I-80 | 570+23.4191 | 303.8758' RT | SURVEY WORK POINT, PIN |

| SURVEY WORK POINTS |              |              |           |         |             |             |                        |
|--------------------|--------------|--------------|-----------|---------|-------------|-------------|------------------------|
| POINT              | NORTH        | EAST         | ELEVATION | CHAIN   | STATION     | OFFSET      | DESCRIPTION            |
| 115                | 1785029.5407 | 2244888.0129 | 695.1595  | D2_I-80 | 86+15.6965  | 82.6015' RT | SURVEY WORK POINT, PIN |
| 116                | 1784514.2412 | 2245584.7409 | 704.5292  | D2_I-80 | 94+71.5143  | 71.3553' RT | SURVEY WORK POINT, PIN |
| 117                | 1783943.3750 | 2246517.6516 | 698.5556  | D2_I-80 | 105+67.6772 | 79.0252' RT | SURVEY WORK POINT, PIN |
| 118                | 1782044.6264 | 2248135.2555 | 684.6705  | D2_I-80 | 131+34.9275 | 90.4528' RT | SURVEY WORK POINT, PIN |
| 119                | 1781420.9615 | 2248403.3439 | 689.7008  | D2_I-80 | 138+25.4715 | 71.7103' RT | SURVEY WORK POINT, PIN |
| 120                | 1779818.7692 | 2248780.0649 | 690.3068  | D2_I-80 | 154+73.1352 | 77.2149' LT | SURVEY WORK POINT, PIN |
| 121                | 1775611.8269 | 2248625.8691 | 664.8830  | D2_I-80 | 196+80.3102 | 70.4958' RT | SURVEY WORK POINT, PIN |
| 122                | 1775037.5031 | 2248602.5520 | 652.5572  | D2_I-80 | 202+54.6693 | 92.9275' RT | SURVEY WORK POINT, PIN |
| 123                | 1750147.6126 | 2249354.4460 | 608.8795  | D2_I-80 | 452+37.5698 | 70.1215' RT | SURVEY WORK POINT, PIN |
| 124                | 1749713.9783 | 2249353.6520 | 609.8018  | D2_I-80 | 456+71.2046 | 69.6236' RT | SURVEY WORK POINT, PIN |
| 127                | 1742297.3443 | 2250564.6487 | 672.2184  | D2_I-80 | 532+46.0395 | 23.0775' RT | SURVEY WORK POINT, PIN |
| 128                | 1740941.2639 | 2251068.0612 | 692.3256  | D2_I-80 | 546+92.5445 | 21.9004' RT | SURVEY WORK POINT, PIN |
| 129                | 1740018.0863 | 2251424.8991 | 704.5489  | D2_I-80 | 556+82.2350 | 7.6291' RT  | SURVEY WORK POINT, PIN |
| 130                | 1739140.8110 | 2251693.9678 | 712.8771  | D2_I-80 | 566+01.0477 | 17.4001' RT | SURVEY WORK POINT, PIN |

| BENCH MARKS |              |              |           |         |             |            |                        |
|-------------|--------------|--------------|-----------|---------|-------------|------------|------------------------|
| POINT       | NORTH        | EAST         | ELEVATION | CHAIN   | STATION     | OFFSET     | DESCRIPTION            |
| 401         | 1738616.0704 | 2252117.2883 | 694.0429  | D2_I-80 | 574+00.9606 | 19.462' RT | SURVEY WORK POINT, PIN |

| HORIZONTAL CONTROL POINTS |              |              |           |         |              |              |             |
|---------------------------|--------------|--------------|-----------|---------|--------------|--------------|-------------|
| POINT                     | NORTH        | EAST         | ELEVATION | CHAIN   | STATION      | OFFSET       | DESCRIPTION |
| 1                         | 1775534.4863 | 2266454.5033 | 578.5203  | D2_I-88 | 184+35.8000  | 7.3775' LT   | PIN         |
| 2                         | 1775505.0920 | 2266172.9744 | 577.8345  | D2_I-88 | 181+53.2067  | 8.8567' RT   | PIN         |
| 3                         | 1772762.3235 | 2257376.2819 | 577.1120  | D2_I-88 | 88+82.0473   | 15.6055' RT  | PIN         |
| 4                         | 1772735.5110 | 2257038.5559 | 575.5163  | D2_I-88 | 85+44.4394   | 12.1847' LT  | PIN         |
| 5                         | 1773459.9867 | 2252743.2221 | 577.8758  | D2_I-88 | 41+66.2531   | 12.4997' RT  | PIN         |
| 6                         | 1773574.4809 | 2252349.6879 | 577.0622  | D2_I-88 | 37+57.1458   | 12.1836' LT  | PIN         |
| 7                         | 1777723.9296 | 2272887.2609 | 582.3779  | D2_I-88 | 254+19.1375  | 18.3637' RT  | PIN         |
| 8                         | 1777904.0954 | 2273004.4871 | 583.6115  | D2_I-88 | 256+29.4289  | 26.6988' LT  | PIN         |
| 9                         | 1780928.3104 | 2276029.1369 | 582.2026  | D2_I-88 | 299+06.3344  | 24.8292' RT  | PIN         |
| 10                        | 1781130.8372 | 2276149.8031 | 582.6301  | D2_I-88 | 301+35.5432  | 30.314' LT   | PIN         |
| 11                        | 1786040.3049 | 2281018.1278 | 582.1629  | D2_I-88 | 370+49.3391  | 23.3963' RT  | PIN         |
| 12                        | 1786160.7048 | 2281074.0279 | 581.7162  | D2_I-88 | 371+74.5393  | 20.7157' LT  | PIN         |
| 13                        | 1790687.2707 | 2285557.0214 | 588.8955  | D2_I-88 | 435+45.1720  | 24.7712' RT  | PIN         |
| 14                        | 1790831.6113 | 2285633.3138 | 588.6648  | D2_I-88 | 437+01.7481  | 21.4743' LT  | PIN         |
| 15                        | 1799821.6560 | 2289356.8571 | 595.2055  | D2_I-88 | 541+28.8041  | 24.7595' RT  | PIN         |
| 16                        | 1799946.8421 | 2289285.9381 | 595.5608  | D2_I-88 | 542+63.6542  | 25.4054' LT  | PIN         |
| 17                        | 1801663.9761 | 2289060.4617 | 602.4346  | D2_I-88 | 559+94.8141  | 24.3341' RT  | PIN         |
| 18                        | 1801759.8373 | 2289000.1304 | 603.0043  | D2_I-88 | 560+99.0312  | 20.0286' LT  | PIN         |
| 19                        | 1807852.8793 | 2291508.0997 | 611.7515  | D2_I-88 | 632+34.3563  | 27.3125' RT  | PIN         |
| 20                        | 1808053.2327 | 2291690.3073 | 608.8352  | D2_I-88 | 635+01.0419  | 19.8033' LT  | PIN         |
| 21                        | 1812162.4198 | 2297079.1098 | 588.3581  | D2_I-88 | 702+77.4289  | 24.2776' RT  | PIN         |
| 22                        | 1812358.6980 | 2297245.3664 | 588.2704  | D2_I-88 | 705+30.3278  | 22.6399' LT  | PIN         |
| 23                        | 1820217.8229 | 2303088.2571 | 587.5379  | D2_I-88 | 803+62.1939  | 28.9586' RT  | PIN         |
| 24                        | 1820439.7657 | 2303132.7595 | 586.7314  | D2_I-88 | 805+82.4046  | 23.4468' LT  | PIN         |
| 25                        | 1825957.8865 | 2306050.0587 | 587.0047  | D2_I-88 | 868+54.6411  | 25.9034' RT  | PIN         |
| 27                        | 1826156.8803 | 2306254.6466 | 587.8656  | D2_I-88 | 871+41.4562  | 31.9613' RT  | PIN         |
| 28                        | 1829165.7612 | 2315408.5519 | 590.1222  | D2_I-88 | 973+07.7593  | 28.5822' RT  | PIN         |
| 29                        | 1829219.3097 | 2315610.9208 | 589.7150  | D2_I-88 | 975+10.4143  | 23.8729' LT  | PIN         |
| 30                        | 1829172.8153 | 2315691.5292 | 588.8925  | D2_I-88 | 975+90.7706  | 23.056' RT   | PIN         |
| 31                        | 1834870.3604 | 2327021.2488 | 591.8799  | D2_I-88 | 1107+65.6731 | 26.9418' RT  | PIN         |
| 32                        | 1835056.0512 | 2327277.9477 | 590.9960  | D2_I-88 | 1110+78.7701 | 22.5297' LT  | PIN         |
| 33                        | 1843608.7156 | 2363740.5171 | 625.9316  | D2_I-88 | 1488+43.7658 | 23.1211' RT  | PIN         |
| 34                        | 1843660.7738 | 2363857.2412 | 625.6511  | D2_I-88 | 1489+61.1076 | 27.5295' LT  | PIN         |
| 35                        | 1852082.0363 | 2379452.6680 | 629.7491  | D2_I-88 | 1670+19.9881 | 22.1492' RT  | PIN         |
| 36                        | 1852252.9178 | 2379681.7426 | 629.7274  | D2_I-88 | 1673+05.2395 | 21.3777' RT  | PIN         |
| 37                        | 1857227.8984 | 2389916.7513 | 629.9424  | D2_I-88 | 1794+85.1973 | 26.7463' RT  | PIN         |
| 38                        | 1857275.2852 | 2390160.8059 | 627.8707  | D2_I-88 | 1797+29.2616 | 20.5905' LT  | PIN         |
| 39                        | 1773740.0380 | 2251057.5073 | 577.4597  | D2_I-88 | 24+60.3304   | 111.9528' RT | PIN         |
| 40                        | 1774005.2567 | 2250905.6960 | 583.5716  | D2_I-88 | 22+58.9068   | 116.2496' LT | PIN         |
| 41                        | 1773368.4139 | 2253733.9745 | 577.1753  | D2_I-88 | 51+52.7428   | 117.1694' LT | PIN         |
| 42                        | 1855220.5551 | 2400946.4239 | 626.2844  | D2_I-88 | 1909+88.6190 | 25.1861' RT  | PIN         |
| 43                        | 1855163.6594 | 2401219.7739 | 621.2789  | D2_I-88 | 1912+63.8215 | 21.9408' LT  | PIN         |
| 44                        | 1852551.5112 | 2407739.7145 | 621.8102  | D2_I-88 | 1982+87.3799 | 21.9436' RT  | PIN         |
| 45                        | 1852508.9956 | 2407982.1413 | 621.8417  | D2_I-88 | 1985+29.6304 | 21.6399' LT  | PIN         |

|   |                      |            |           |   |   |                           |                  |        |                 |              |  |
|---|----------------------|------------|-----------|---|---|---------------------------|------------------|--------|-----------------|--------------|--|
| FILE NAME =                                       | USER NAME = renkesrw | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING HORIZONTAL &amp; VERTICAL CONTROL</b> | F.A.I.<br>RTE.            | SECTION          | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |  |
| cr:\pw\work\p\dot\renkesrw\d8292974\02-ht-ATB.dgn |                      | DRAWN -    | REVISED - |   |   | *                         | D2 SAFETY 2012-2 | **     | 151             | 29           |  |
| PLOT SCALE = 50.0000' / in.                       |                      | CHECKED -  | REVISED - |   |   | CONTRACT NO. 64H77        |                  |        |                 |              |  |
| PLOT DATE = Mon Apr 30 14:17:39 2012              |                      | DATE -     | REVISED - |   |   | ILLINOIS FED. AID PROJECT |                  |        |                 |              |  |