

← 90% FED 10% STATE →

|                     |             |                           |                 |              |
|---------------------|-------------|---------------------------|-----------------|--------------|
| F.A.I.<br>RTE.      | SECTION     | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
| 80                  | (32, 47-4)K | KENDALL/GRUNDY            | 243             | 8            |
| STA.                |             | TO STA.                   |                 |              |
| FED. ROAD DIST. NO. |             | ILLINOIS FED. AID PROJECT |                 |              |
| CONTRACT NO. 66294  |             |                           |                 |              |

| SUMMARY OF QUANTITIES |                                                          |       |            | CONSTRUCTION TYPE CODE |                     |                      |                     |                      |                     |
|-----------------------|----------------------------------------------------------|-------|------------|------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|
| CODE NO.              | ITEM DESCRIPTION                                         | UNIT  | TOTAL QTY. | ROADWAY                |                     | TRAFFIC SIGNALS      |                     | HIGHWAY LIGHTING     |                     |
|                       |                                                          |       |            | J000-2A<br>(KENDALL)   | J000-2A<br>(GRUNDY) | Y031-1F<br>(KENDALL) | Y031-1F<br>(GRUNDY) | Y030-1E<br>(KENDALL) | Y030-1E<br>(GRUNDY) |
| 73400200              | DRILLED SHAFT CONCRETE FOUNDATIONS                       | CU YD | 28.1       | 14.1                   | 14.0                |                      |                     |                      |                     |
| * 78008300            | POLYUREA PAVEMENT MARKING, TYPE II - LETTERS AND SYMBOLS | SQ FT | 546        | 265                    | 281                 |                      |                     |                      |                     |
| * 78008310            | POLYUREA PAVEMENT MARKING, TYPE II - LINE 4"             | FOOT  | 15,598     | 8,484                  | 7,114               |                      |                     |                      |                     |
| * 78008330            | POLYUREA PAVEMENT MARKING, TYPE II - LINE 6"             | FOOT  | 2,629      | 1,324                  | 1,305               |                      |                     |                      |                     |
| * 78008340            | POLYUREA PAVEMENT MARKING, TYPE II - LINE 8"             | FOOT  | 11,322     | 5,391                  | 5,931               |                      |                     |                      |                     |
| * 78008350            | POLYUREA PAVEMENT MARKING, TYPE II - LINE 12"            | FOOT  | 2,965      | 1,427                  | 1,538               |                      |                     |                      |                     |
| * 78008370            | POLYUREA PAVEMENT MARKING, TYPE II - LINE 24"            | FOOT  | 336        | 185                    | 151                 |                      |                     |                      |                     |
| * 78100100            | RAISED REFLECTIVE PAVEMENT MARKER                        | EACH  | 100        | 54                     | 46                  |                      |                     |                      |                     |
| 78200410              | GUARDRAIL MARKERS, TYPE A                                | EACH  | 26         | 8                      | 18                  |                      |                     |                      |                     |
| 78201000              | TERMINAL MARKER - DIRECT APPLIED                         | EACH  | 5          | 2                      | 3                   |                      |                     |                      |                     |
| 78300100              | PAVEMENT MARKING REMOVAL                                 | SQ FT | 1,170      | 267                    | 903                 |                      |                     |                      |                     |
| △                     |                                                          |       |            |                        |                     |                      |                     |                      |                     |
| △                     | 80400100 ELECTRIC SERVICE INSTALLATION                   | EACH  | 1          |                        |                     |                      |                     | 1                    |                     |
| 81012400              | CONDUIT IN TRENCH, 1 1/4 " DIA., PVC                     | FOOT  | 293        |                        |                     | 148                  | 145                 |                      |                     |
| 81012600              | CONDUIT IN TRENCH, 2" DIA., PVC                          | FOOT  | 1,777      |                        |                     | 862                  | 915                 |                      |                     |
| 81012700              | CONDUIT IN TRENCH, 2 1/2 " DIA., PVC                     | FOOT  | 315        |                        |                     | 119                  | 196                 |                      |                     |
| X0325242              | CONDUIT IN TRENCH, 2 1/2 " DIA., PVC, SCHEDULE 80        | FOOT  | 558        |                        |                     | 485                  | 73                  |                      |                     |
| X0933900              | PVC CONDUIT IN TRENCH 3" (SCHEDULE #80)                  | FOOT  | 56         |                        |                     | 56                   |                     |                      |                     |
| X0934000              | PVC CONDUIT IN TRENCH 4" (SCHEDULE #80)                  | FOOT  | 20         |                        |                     | 10                   | 10                  |                      |                     |
| X0325243              | CONDUIT PUSHED, 3" DIA., PVC, SCHEDULE 80                | FOOT  | 352        |                        |                     | 264                  | 88                  |                      |                     |
| X0325244              | CONDUIT PUSHED, 4" DIA., PVC, SCHEDULE 80                | FOOT  | 408        |                        |                     | 177                  | 231                 |                      |                     |
| △                     |                                                          |       |            |                        |                     |                      |                     |                      |                     |
| 81400400              | CONCRETE HANDHOLE                                        | EACH  | 20         |                        |                     | 11                   | 9                   |                      |                     |
| 81400500              | CONCRETE HEAVY-DUTY HANDHOLE                             | EACH  | 1          |                        |                     | 1                    |                     |                      |                     |
| 81400600              | CONCRETE DOUBLE HANDHOLE                                 | EACH  | 2          |                        |                     | 1                    | 1                   |                      |                     |
| 81500200              | TRENCH AND BACKFILL FOR ELECTRICAL WORK                  | FOOT  | 16,390     |                        |                     | 1520                 | 1255                | 8,395                | 5,220               |
| △                     |                                                          |       |            |                        |                     |                      |                     |                      |                     |

\* SPECIALTY ITEM

REVISED  
4-11-2006  
PER ADDENDUM

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

SUMMARY OF QUANTITIES

SCALE: NONE

DATE: 2/10/06

DRAWN BY: NJS

CHECKED BY: JJC

←90% FED — 10% STATE→

| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 9            |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

| SUMMARY OF QUANTITIES |                                                              |      |            | CONSTRUCTION TYPE CODE |                     |                      |                     |                      |                     |
|-----------------------|--------------------------------------------------------------|------|------------|------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|
| CODE NO.              | ITEM DESCRIPTION                                             | UNIT | TOTAL QTY. | ROADWAY                |                     | TRAFFIC SIGNALS      |                     | HIGHWAY LIGHTING     |                     |
|                       |                                                              |      |            | J000-2A<br>(KENDALL)   | J000-2A<br>(GRUNDY) | Y031-1F<br>(KENDALL) | Y031-1F<br>(GRUNDY) | Y030-1E<br>(KENDALL) | Y030-1E<br>(GRUNDY) |
| △                     |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
| * 81800820            | AERIAL CABLE, 4-1/C NO. 4 AWG, ALUMINUM, WITH MESSENGER WIRE | FOOT | 9,350      |                        |                     |                      |                     | 4650                 | 4500                |
| △                     |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
| * 82500560            | LIGHTING CONTROLLER TYPE CB-RCS 200AMP - 480 VOLT            | EACH | 1          |                        |                     |                      |                     | 1                    |                     |
| △                     |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
|                       |                                                              |      |            |                        |                     |                      |                     |                      |                     |
| 84500110              | REMOVAL OF LIGHTING CONTROLLER                               | EACH | 1          |                        |                     |                      |                     | 1                    |                     |
| 84500130              | REMOVAL OF LIGHTING CONTROLLER FOUNDATION                    | EACH | 1          |                        |                     |                      |                     | 1                    |                     |
| * 85700205            | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL        | EACH | 2          |                        |                     | 1                    | 1                   |                      |                     |
| * 86000100            | MASTER CONTROLLER                                            | EACH | 1          |                        |                     | 0.5                  | 0.5                 |                      |                     |
| * 86400100            | TRANSCEIVER-FIBER OPTIC                                      | EACH | 2          |                        |                     | 1                    | 1                   |                      |                     |
| * 87301215            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                  | FOOT | 891        |                        |                     | 494                  | 397                 |                      |                     |
| * 87301225            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                  | FOOT | 1,510      |                        |                     | 738                  | 772                 |                      |                     |
| * 87301245            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                  | FOOT | 3,745      |                        |                     | 1729                 | 2016                |                      |                     |
| * 87301255            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                  | FOOT | 1,520      |                        |                     | 977                  | 543                 |                      |                     |
| * 87301305            | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR            | FOOT | 5,591      |                        |                     | 2503                 | 3088                |                      |                     |
| * 87301805            | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C                 | FOOT | 76         |                        |                     | 39                   | 37                  |                      |                     |
| 87502440              | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.                 | EACH | 1          |                        |                     |                      | 1                   |                      |                     |
| 87502500              | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                 | EACH | 11         |                        |                     | 6                    | 5                   |                      |                     |
| 87502520              | TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.                 | EACH | 2          |                        |                     | 1                    | 1                   |                      |                     |
| 87702980              | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.         | EACH | 1          |                        |                     | 1                    |                     |                      |                     |
| 87703000              | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.         | EACH | 1          |                        |                     |                      | 1                   |                      |                     |
| 87800100              | CONCRETE FOUNDATION, TYPE A                                  | FOOT | 56         |                        |                     | 28                   | 28                  |                      |                     |
| 87800200              | CONCRETE FOUNDATION, TYPE D                                  | FOOT | 8          |                        |                     | 4                    | 4                   |                      |                     |
| 87800415              | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                 | FOOT | 28         |                        |                     | 13                   | 15                  |                      |                     |
| * 88200410            | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC           | EACH | 28         |                        |                     | 14                   | 14                  |                      |                     |
| 88500100              | INDUCTIVE LOOP DETECTOR                                      | EACH | 20         |                        |                     | 10                   | 10                  |                      |                     |

⊙ SFTY-3C



REVISED  
14-11-2004

PER ADDENDUM

\* SPECIALTY ITEM

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

SUMMARY OF QUANTITIES

SCALE: NONE

DATE: 2/10/06

DRAWN BY: NJS

CHECKED BY: JJC

| F.A.I.<br>RTE.      | SECTION     | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------|-------------|---------------------------|-----------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GUNDY             | 243             | 10           |
| STA.                |             | TO STA.                   |                 |              |
| FED. ROAD DIST. NO. |             | ILLINOIS FED. AID PROJECT |                 |              |
| CONTRACT NO. 66294  |             |                           |                 |              |

|              |                                                                           | UNIT   | TOTAL  | <div style="display: flex; justify-content: space-between; align-items: center;"> <span>← 90% FED</span> <span>10% STATE →</span> </div> |                     |                      |                     |                      |                     |
|--------------|---------------------------------------------------------------------------|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|
|              |                                                                           |        |        | ROADWAY                                                                                                                                  |                     | TRAFFIC SIGNALS      |                     | HIGHWAY LIGHTING     |                     |
|              |                                                                           |        |        | J000-2A<br>(KENDALL)                                                                                                                     | J000-2A<br>(GRUNDY) | Y031-1F<br>(KENDALL) | Y031-1F<br>(GRUNDY) | Y030-1E<br>(KENDALL) | Y030-1E<br>(GRUNDY) |
| * 88600100   | DETECTOR LOOP, TYPE 1                                                     | FOOT   | 2,778  |                                                                                                                                          |                     | 1408                 | 1370                |                      |                     |
| Δ 88700200   | LIGHT DETECTOR                                                            | EACH   | 4      |                                                                                                                                          |                     | 2                    | 2                   |                      |                     |
| Δ 88700300   | LIGHT DETECTOR AMPLIFIER                                                  | EACH   | 2      |                                                                                                                                          |                     | 1                    | 1                   |                      |                     |
| * 88800100   | PEDESTRIAN PUSH-BUTTON                                                    | EACH   | 4      |                                                                                                                                          |                     | 2                    | 2                   |                      |                     |
| * 89000100   | TEMPORARY TRAFFIC SIGNAL INSTALLATION                                     | EACH   | 3      |                                                                                                                                          |                     | 1                    | 2                   |                      |                     |
| 89502375     | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH   | 1      |                                                                                                                                          |                     | 1                    |                     |                      |                     |
| 89502380     | REMOVE EXISTING HANDHOLE                                                  | EACH   | 2      |                                                                                                                                          |                     | 2                    |                     |                      |                     |
| 89502385     | REMOVE EXISTING CONCRETE FOUNDATION                                       | EACH   | 1      |                                                                                                                                          |                     | 1                    |                     |                      |                     |
| X0300057     | MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE | EACH   | 1      | 0                                                                                                                                        | 1                   |                      |                     |                      |                     |
| * X0300739   | UNINTERRUPTABLE POWER SUPPLY                                              | EACH   | 2      |                                                                                                                                          |                     | 1                    | 1                   |                      |                     |
| X0301835     | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE | EACH   | 1      | 0                                                                                                                                        | 1                   |                      |                     |                      |                     |
| X0322256     | TEMPORARY INFORMATION SIGNING                                             | SQ FT  | 288.3  | 199.8                                                                                                                                    | 88.5                |                      |                     |                      |                     |
| * X0322925   | ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 IC                               | FOOT   | 1,958  |                                                                                                                                          |                     | 979                  | 979                 |                      |                     |
| * X0325096   | OPTIMIZE TRAFFIC SIGNAL SYSTEM                                            | L SUM  | 1      |                                                                                                                                          |                     |                      | 1                   |                      |                     |
| Δ [REDACTED] | [REDACTED]                                                                |        |        |                                                                                                                                          |                     |                      |                     |                      |                     |
| X0325238     | TEMPORARY PAVEMENT 9.5"                                                   | SQ YD  | 2,695  | 1,443                                                                                                                                    | 1,252               |                      |                     |                      |                     |
| X0325239     | TEMPORARY PAVEMENT 10"                                                    | SQ YD  | 1,653  | 0                                                                                                                                        | 1,653               |                      |                     |                      |                     |
| X0325240     | TEMPORARY PAVEMENT 10.5"                                                  | SQ YD  | 10,472 | 6,480                                                                                                                                    | 3,992               |                      |                     |                      |                     |
| X0325241     | TEMPORARY PAVEMENT 11"                                                    | SQ YD  | 1,345  | 1,345                                                                                                                                    | 0                   |                      |                     |                      |                     |
| X0919000     | TEMPORARY PAVEMENT REMOVAL                                                | SQ YD  | 16,164 | 9,268                                                                                                                                    | 6,896               |                      |                     |                      |                     |
| X4066428     | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N90               | TONS   | 60     | 21                                                                                                                                       | 39                  |                      |                     |                      |                     |
| X4834090     | PORTLAND CEMENT CONCRETE SHOULDERS, 14"                                   | SQ YD  | 2,862  | 1,498                                                                                                                                    | 1,364               |                      |                     |                      |                     |
| X6013600     | PIPE UNDERDRAINS, 4" (MODIFIED)                                           | FOOT   | 9,491  | 5,005                                                                                                                                    | 4,486               |                      |                     |                      |                     |
| X7015000     | CHANGEABLE MESSAGE SIGN                                                   | CAL MO | 28     | 14                                                                                                                                       | 14                  |                      |                     |                      |                     |
| * X0325248   | MODIFY EXISTING OVERHEAD SIGN STRUCTURE, BRIDGE MOUNTED                   | EACH   | 1      | 1                                                                                                                                        | 0                   |                      |                     |                      |                     |
| * X7330110   | OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A                       | FOOT   | 54     | 27                                                                                                                                       | 27                  |                      |                     |                      |                     |
| * X7330310   | OVERHEAD SIGN STRUCTURE - SPAN, DUAL MONOTUBE                             | FOOT   | 186    | 98                                                                                                                                       | 88                  |                      |                     |                      |                     |
| Δ [REDACTED] | [REDACTED]                                                                |        |        |                                                                                                                                          |                     |                      |                     |                      |                     |
| * X8050015   | SERVICE INSTALLATION, POLE MOUNTED                                        | EACH   | 2      |                                                                                                                                          |                     | 1                    | 1                   |                      |                     |
| Δ [REDACTED] | [REDACTED]                                                                |        |        |                                                                                                                                          |                     |                      |                     |                      |                     |
| Δ [REDACTED] | [REDACTED]                                                                |        |        |                                                                                                                                          |                     |                      |                     |                      |                     |

REVISÉ  
4-11-2006  
PER ADDENDUM  
100% COST TO THE

\* SPECIALTY ITEM

[illegible]

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

### SUMMARY OF QUANTITIES

SCALE: NONE  
DATE: 2/10/

DRAWN BY: NJS  
CHECKED BY: JJC

| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 11           |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

| SUMMARY OF QUANTITIES |                                                                         |       |            | CONSTRUCTION TYPE CODE |                  |                   |                  |                   |                  |
|-----------------------|-------------------------------------------------------------------------|-------|------------|------------------------|------------------|-------------------|------------------|-------------------|------------------|
| CODE NO.              | ITEM DESCRIPTION                                                        | UNIT  | TOTAL QTY. | ROADWAY                |                  | TRAFFIC SIGNALS   |                  | HIGHWAY LIGHTING  |                  |
|                       |                                                                         |       |            | J000-2A (KENDALL)      | J000-2A (GRUNDY) | Y031-1F (KENDALL) | Y031-1F (GRUNDY) | Y030-1E (KENDALL) | Y030-1E (GRUNDY) |
| * X8710020            | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F                 | FOOT  | 1,982      |                        |                  | 991               | 991              |                   |                  |
| * X8730027            | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C                          | FOOT  | 1,353      |                        |                  | 681               | 672              |                   |                  |
| Δ * X8730250          | ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED 1               | FOOT  | 585        |                        |                  | 226               | 359              |                   |                  |
| * X8801300            | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED     | EACH  | 15         |                        |                  | 7                 | 8                |                   |                  |
| * X8801310            | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED    | EACH  | 4          |                        |                  | 2                 | 2                |                   |                  |
| * X8801345            | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED     | EACH  | 1          |                        |                  | 1                 |                  |                   |                  |
| * X8801395            | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED     | EACH  | 7          |                        |                  | 4                 | 3                |                   |                  |
| * X8801400            | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED    | EACH  | 1          |                        |                  |                   | 1                |                   |                  |
| * X8810610            | PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED                 | EACH  | 4          |                        |                  | 2                 | 2                |                   |                  |
| XX001854              | STABILIZED SUB-BASE 6"                                                  | SQ YD | 12,651     | 6,904                  | 5,747            |                   |                  |                   |                  |
| XX003503              | FLARED END SECTION REMOVAL                                              | EACH  | 3          | 1                      | 2                |                   |                  |                   |                  |
| XX004201              | PAVEMENT REINFORCEMENT 14"                                              | SQ YD | 9,384      | 5,105                  | 4,279            |                   |                  |                   |                  |
| * XX005430            | MAINTENANCE OF EXISTING HIGHWAY LIGHTING                                | L SUM | 1          |                        |                  |                   |                  | 0.5               | 0.5              |
| Z0001050              | AGGREGATE SUBGRADE 12"                                                  | SQ YD | 46,756     | 25,244                 | 21,512           |                   |                  |                   |                  |
| Z0002600              | BAR SPLICERS                                                            | EACH  | 305        | 0                      | 305              |                   |                  |                   |                  |
| Z0013798              | CONSTRUCTION LAYOUT                                                     | L SUM | 1          | 0.5                    | 0.5              |                   |                  |                   |                  |
| Z0013825              | CONTROLLED LOW-STRENGTH MATERIAL                                        | CU YD | 61         | 0                      | 61               |                   |                  |                   |                  |
| Z0028700              | GRANULAR SUBGRADE REPLACEMENT                                           | CU YD | 1,205      | 695                    | 510              |                   |                  |                   |                  |
| □ * Z0030255          | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 | EACH  | 1          | 1                      | 0                |                   |                  |                   |                  |
| 81020500              | CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL                             | FOOT  | 330        |                        |                  |                   |                  | 190               | 140              |
| 81020700              | CONDUIT PUSHED, 3" DIA., INTERMEDIATE METAL                             | FOOT  | 205        |                        |                  |                   |                  | 130               | 75               |
| 81100600              | CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL                | FOOT  | 120        |                        |                  |                   |                  | 60                | 60               |
| 81200230              | CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC                             | FOOT  | 40         |                        |                  |                   |                  | 20                | 20               |
| 81300530              | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"    | EACH  | 2          |                        |                  |                   |                  | 1                 | 1                |
| * 81600315            | UNIT DUCT, 2*6XLP, 1*6 XLP GROUND 1" POLYETHYLENE                       | FOOT  | 6,150      |                        |                  |                   |                  | 3830              | 2320             |
| * 81600415            | UNIT DUCT, 2*4XLP, 1*4 XLP GROUND 1" POLYETHYLENE                       | FOOT  | 5,050      |                        |                  |                   |                  | 2109              | 2941             |
| * 81600515            | UNIT DUCT, 2*2XLP, 1*2 XLP GROUND 1 1/4" POLYETHYLENE                   | FOOT  | 3,200      |                        |                  |                   |                  | 2940              | 260              |
| * 81702130            | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6                | FOOT  | 300        |                        |                  |                   |                  | 150               | 150              |
| * 82105600            | LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT          | EACH  | 90         |                        |                  |                   |                  | 54                | 36               |
| * 82107300            | UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR               | EACH  | 4          |                        |                  |                   |                  | 2                 | 2                |
| * 82109200            | SIGN LIGHTING LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM                 | EACH  | 14         |                        |                  |                   |                  | 7                 | 7                |
| * 83502400            | LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6                 | EACH  | 15         |                        |                  |                   |                  | 9                 | 6                |
| * 83700300            | LIGHT TOWER FOUNDATION, 48" DIAMETER                                    | FOOT  | 300        |                        |                  |                   |                  | 180               | 120              |
| 84100110              | REMOVAL OF TEMPORARY LIGHTING UNITS                                     | EACH  | 46         |                        |                  |                   |                  | 23                | 23               |
| 84400125              | RELOCATE EXISTING TEMPORARY LIGHTING UNIT                               | EACH  | 44         |                        |                  |                   |                  | 22                | 22               |
| X0324844              | TEMPORARY LIGHTING UNIT                                                 | EACH  | 20         |                        |                  |                   |                  | 10                | 10               |
| X8950600              | REMOVE AND RELOCATE EXISTING LIGHT STANDARD                             | EACH  | 6          |                        |                  |                   |                  |                   | 6                |
| XX220000              | REMOVE EXISTING LIGHTING SYSTEM                                         | EACH  | 1          |                        |                  |                   |                  | 0.5               | 0.5              |

\* SPECIALTY ITEM

Δ **REVISED**  
**4-11-2006**  
PER ADDENDUM

Δ 100% COST TO THE VILLAGE OF MINOOKA (Y031-3D) □ SFTY-3N

| REVISIONS |      |
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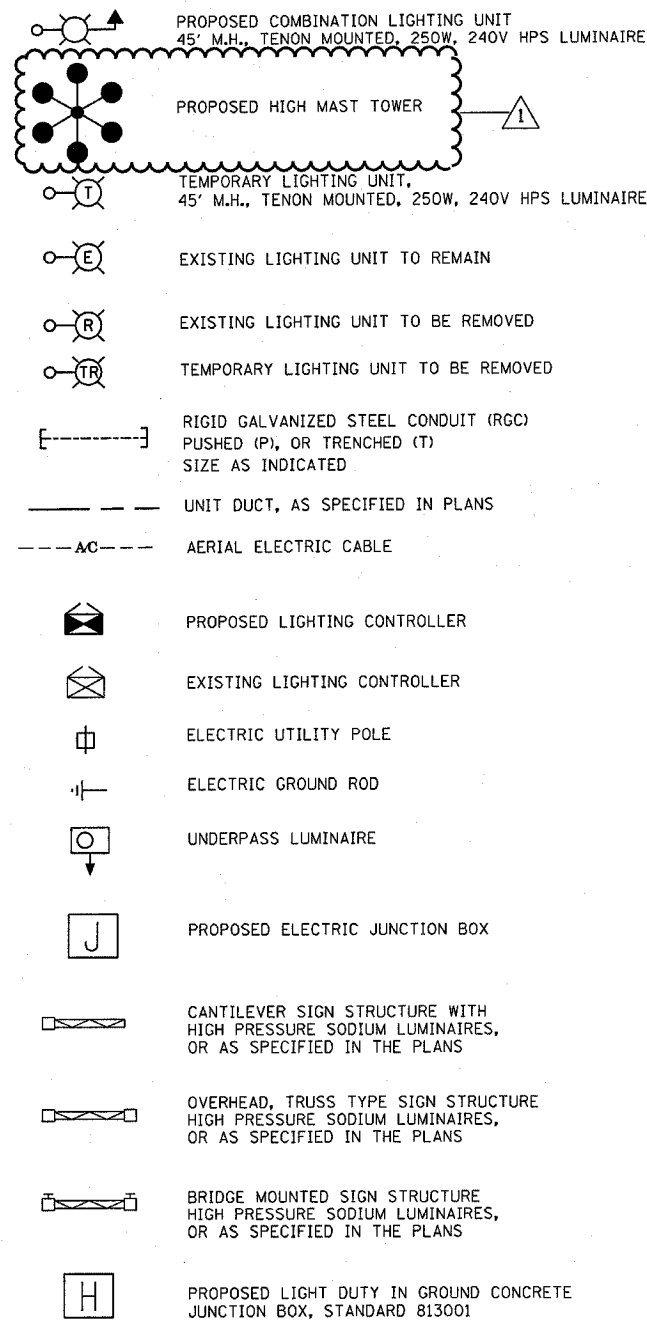
ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

SUMMARY OF QUANTITIES

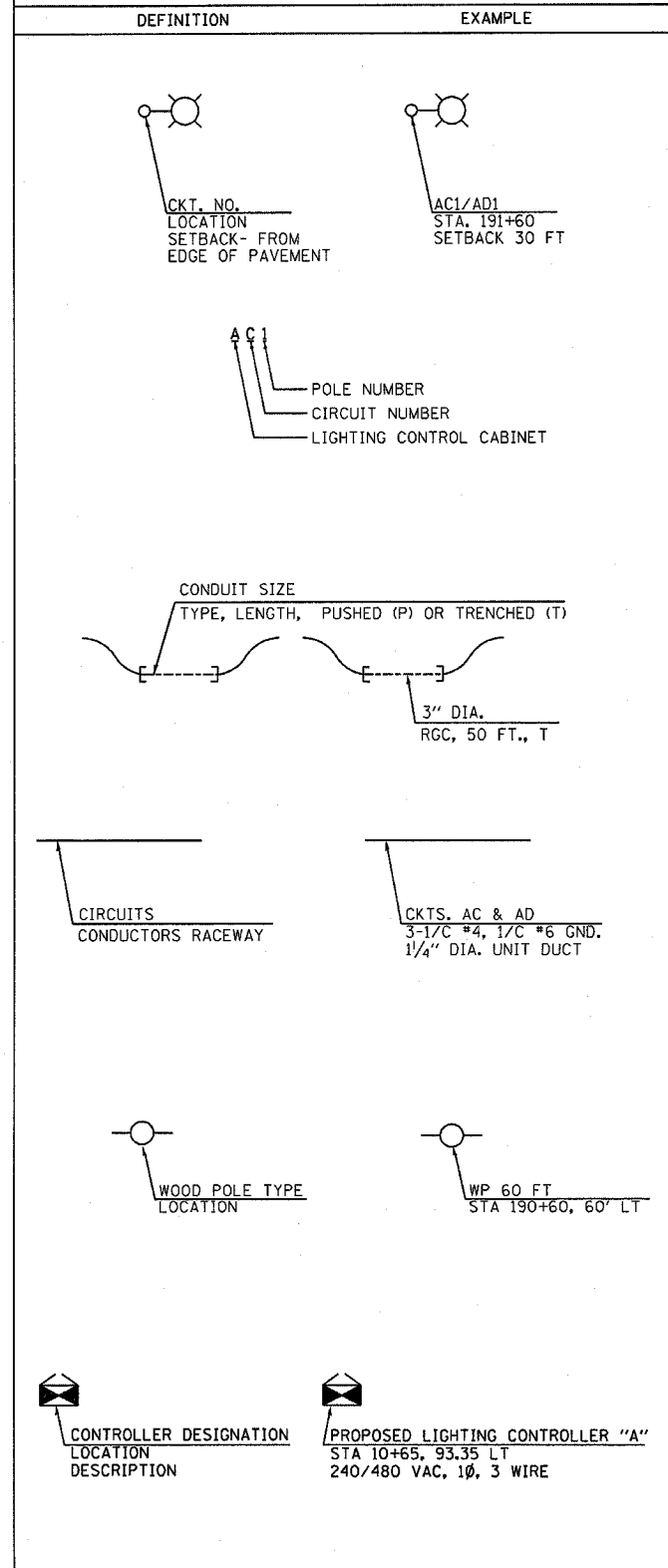
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## LEGEND



## CALL-OUT SAMPLES



## ABBREVIATIONS

| SYMBOL     | DESCRIPTION                                                            |
|------------|------------------------------------------------------------------------|
| AC         | ALTERNATING CURRENT                                                    |
| A/C        | AERIAL CABLE                                                           |
| AFG        | ABOVE FINISHED GRADE                                                   |
| CB         | CIRCUIT BREAKER                                                        |
| CKT        | CIRCUIT                                                                |
| CM         | CENTIMETER                                                             |
| CNC        | COILABLE NONMETALLIC CONDUIT                                           |
| CT         | CURRENT TRANSFORMER                                                    |
| CP         | CONTROL PANEL                                                          |
| DA         | DAVIT ARM                                                              |
| DC         | DIRECT CURRENT                                                         |
| DIA        | DIAMETER                                                               |
| DP         | DISTRIBUTION PANEL                                                     |
| E          | EXISTING UNIT TO REMAIN                                                |
| ECA        | ELECTRIC CABLE ASSEMBLY                                                |
| EM         | EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM) |
| ER         | EXISTING RELOCATED UNIT                                                |
| ET         | EXISTING TEMPORARY UNIT TO REMAIN                                      |
| ETR        | EXISTING TEMPORARY RELOCATED UNIT                                      |
| FT         | FEET OR FOOT                                                           |
| FND BW     | FOUNDATION BARRIER WALL                                                |
| FND BW OS  | FOUNDATION BARRIER WALL OFFSET                                         |
| FND CON    | FOUNDATION CONCRETE                                                    |
| FND CON OS | FOUNDATION CONCRETE OFFSET                                             |
| FND MET    | FOUNDATION METAL                                                       |
| FND PW     | FOUNDATION PARAPET WALL                                                |
| FU         | FUSE                                                                   |
| GND        | GROUND                                                                 |
| HID        | HIGH INTENSITY DISCHARGE                                               |
| JB         | JUNCTION BOX                                                           |
| KVA        | KILOVOLT-AMPERE                                                        |
| KW         | KILOWATTS                                                              |
| M          | METER                                                                  |
| MA         | MAST ARM                                                               |
| MM         | MILLIMETER                                                             |
| MH         | MOUNTING HEIGHT                                                        |
| NO. #      | NUMBER                                                                 |
| P          | POTENTIAL                                                              |
| PB         | PUSH BUTTON                                                            |
| PNL        | PANEL                                                                  |
| PVCC RGC   | PVC COATED RIGID GALVANIZED CONDUIT                                    |
| PT         | POTENTIAL TRANSFORMER                                                  |
| R          | EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)                    |
| RR         | EXISTING UNIT TO BE REMOVED AND REINSTALLED                            |
| RECP       | RECEPTACLE                                                             |
| RGC        | RIGID GALVANIZED CONDUIT                                               |
| SEL SW     | SELECTOR SWITCH                                                        |
| SPARE      | SPARE                                                                  |
| SPACE      | SPACE                                                                  |
| SS         | STAINLESS STEEL                                                        |
| STA        | STATION                                                                |
| T          | TEMPORARY LIGHTING UNIT                                                |
| TB         | TRANSFORMER BASE                                                       |
| TMP        | TEMPORARY                                                              |
| TR         | TEMPORARY UNIT TO BE REMOVED, SALVAGE EQUIPMENT AS SPECIFIED           |
| TRR        | TEMPORARY UNIT TO BE REMOVED AND RELOCATED                             |
| TUR        | TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED                           |
| UD         | UNIT DUCT                                                              |
| U.N.O.     | UNLESS NOTED OTHERWISE                                                 |
| WP         | WOOD POLE                                                              |
| XFMR       | TRANSFORMER                                                            |

## GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- ALL NEW CONDUIT, UNIT DUCTS, DIRECT BURIAL CABLE, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
- THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
- FOR THE EXISTING LIGHT POLE AND FOUNDATIONS THAT ARE TO BE REMOVED, THE ASSOCIATED UNDERGROUND CONDUITS AND CABLE SHALL BE SEPARATED FROM RESPECTIVE FOUNDATIONS AT 760 MM (2.5 FEET) BELOW GRADE AND SHALL BE ABANDONED EXCEPT WHERE INDICATED ON THE LIGHT POLE RELOCATION PLAN FOR RIDGE ROAD. THERE THE FOUNDATIONS SHALL BE COMPLETELY REMOVED AS INDICATED.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 760 MM (30 INCHES) DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDER DRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE/VILLAGE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
- WHEREVER THE TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING AND/OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6 METER (20 FEET) OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.
- THE POLES SHALL BE KEPT OUT OF DITCH AREA AND PLACED AS FAR AS 40', IF NEEDED, TO GET OUT OF FLOW LINE.

REVISED BY IDOT



GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900

| REVISIONS |         |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

## LEGEND AND NOTES

SCALE: NONE

DATE: 12/9/2005

DRAWN BY: KGP/MAE

CHECKED BY: MAE/PKG



REVISED 4-11-06 MJ

PER ADDENDUM

PATRICK  
ENGINEERING INC.  
LISLE, ILLINOIS

~~SUMMARY OF QUANTITIES~~

| PAY<br>CODE<br>NUMBER | DESCRIPTION                                                          | UNIT            | QUANTITY     | Y030-1E<br>(KENDALL) | Y030-1E<br>(GRUNDY) |
|-----------------------|----------------------------------------------------------------------|-----------------|--------------|----------------------|---------------------|
| 80400100              | ELECTRIC SERVICE INSTALLATION                                        | EACH            | 1            | 1                    | 0                   |
| 81020500              | CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL                          | FOOT            | 330          | 190                  | 140                 |
| 81020700              | CONDUIT PUSHED, 3" DIA., INTERMEDIATE METAL                          | FOOT            | 205          | 130                  | 75                  |
| 81100600              | CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL             | FOOT            | 120          | 60                   | 60                  |
| 81200230              | CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC                          | FOOT            | 40           | 20                   | 20                  |
| 81300530              | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6" | EACH            | 2            | 1                    | 1                   |
| 81500200              | TRENCH AND BACKFILL FOR ELECTRICAL WORK                              | FOOT            | 13,615       | 8395                 | 5220                |
| 81600315              | UNIT DUCT, 2*6XLP, 1*6 XLP GROUND 1" POLYETHYLENE                    | FOOT            | 6,150        | 3830                 | 2320                |
| 81600415              | UNIT DUCT, 2*4XLP, 1*4 XLP GROUND 1" POLYETHYLENE                    | FOOT            | 5,050        | 2109                 | 2941                |
| 81600515              | UNIT DUCT, 2*2XLP, 1*2 XLP GROUND 1 1/4" POLYETHYLENE                | FOOT            | 3,200        | 2940                 | 260                 |
| 81702130              | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6             | FOOT            | 300          | 150                  | 150                 |
| 81800820              | AERIAL CABLE, 4-1/C NO. 4 AWG, ALUMINUM, WITH MESSENGER WIRE         | FOOT            | 9,350        | 4850                 | 4500                |
| 82105600              | LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT       | EACH            | 90           | 54                   | 36                  |
| 82107300              | UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR            | EACH            | 4            | 2                    | 2                   |
| 82109200              | SIGN LIGHTING LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM              | EACH            | 14           | 7                    | 7                   |
| 82500560              | LIGHTING CONTROLLER TYPE CB-RCS 200AMP - 480VOLT                     | EACH            | 1            | 1                    |                     |
| 83502400              | LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6              | EACH            | 15           | 9                    | 6                   |
| 83700300              | LIGHT TOWER FOUNDATION, 48" DIAMETER                                 | FOOT            | *300         | 180                  | 120                 |
| 84100110              | REMOVAL OF TEMPORARY LIGHTING UNITS                                  | EACH            | 46           | 23                   | 23                  |
| 84400125              | RELOCATE EXISTING TEMPORARY LIGHTING UNIT                            | EACH            | 44           | 22                   | 22                  |
| 84500110              | REMOVAL OF LIGHTING CONTROLLER                                       | EACH            | 1            | 1                    |                     |
| 84500130              | REMOVAL OF LIGHTING CONTROLLER FOUNDATION                            | EACH            | 1            | 1                    |                     |
| X0324844              | TEMPORARY LIGHTING UNIT                                              | EACH            | 20           | 10                   | 10                  |
| X8040400              | <del>ELECTRIC UTILITY SERVICE CONNECTION</del>                       | <del>EACH</del> | <del>1</del> | <del>1</del>         |                     |
| X8950600              | REMOVE AND RELOCATE EXISTING LIGHT STANDARD                          | EACH            | 6            |                      | 6                   |
| XX220000              | REMOVE EXISTING LIGHTING SYSTEM                                      | EACH            | 1            | 0.5                  | 0.5                 |
| XX005430              | MAINTENANCE OF EXISTING HIGHWAY LIGHTING                             | L SUM           | 1            | 0.5                  | 0.5                 |
|                       |                                                                      |                 |              |                      |                     |
|                       |                                                                      |                 |              |                      |                     |

\* ACTUAL DEPTH TO BE DETERMINED BY SOIL BORINGS

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GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-590

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

~~SUMMARY OF QUANTITIES~~

SCALE: NONE  
DATE: 2/10/06

DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG

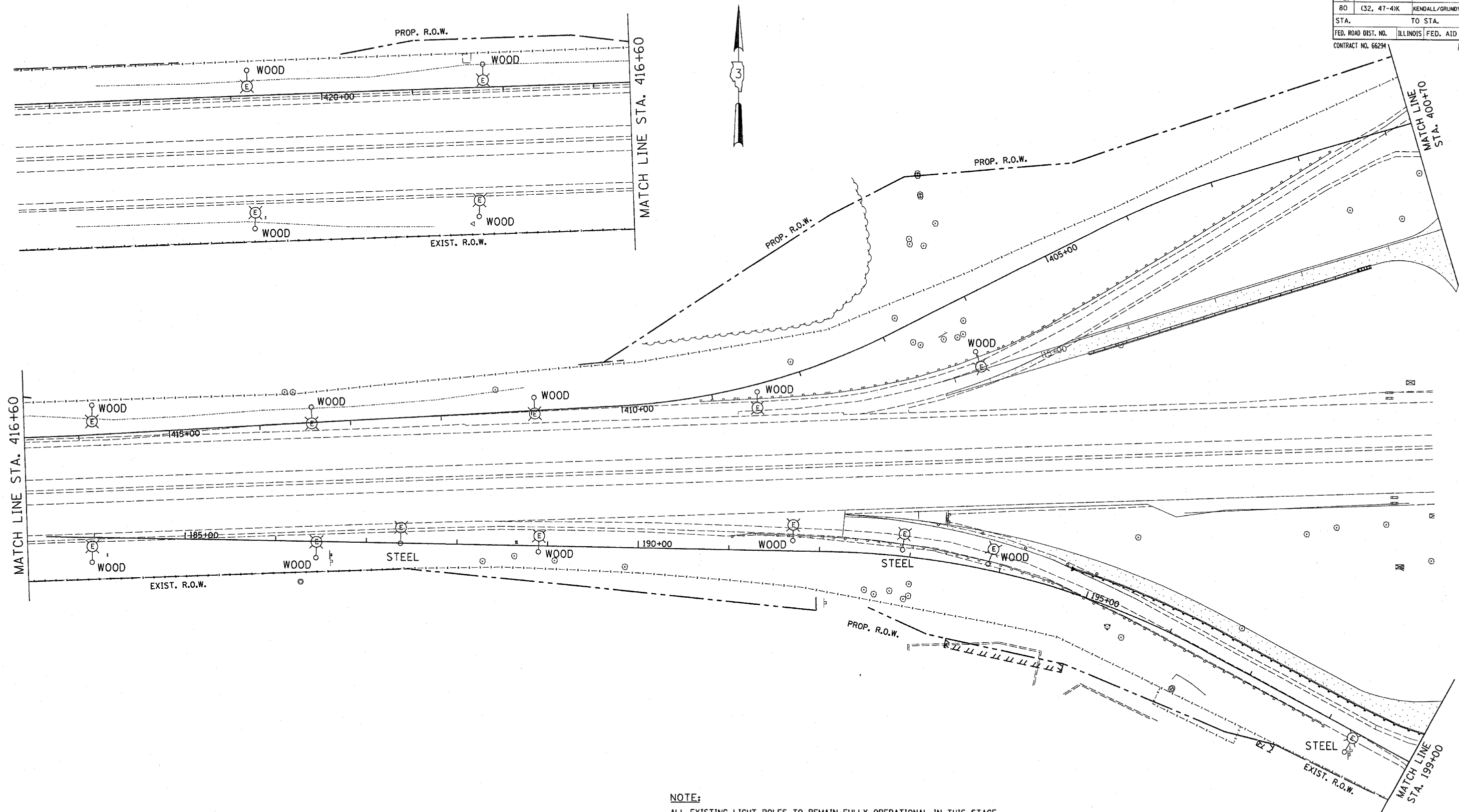


ENTIRE SHEET REVISED 4-11-06 MJ

PER ADDENDUM

| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 131          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 132          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |



**NOTE:**  
ALL EXISTING LIGHT POLES TO REMAIN FULLY OPERATIONAL IN THIS STAGE.

WOOD OR STEEL  
POLE TYPE ADDED



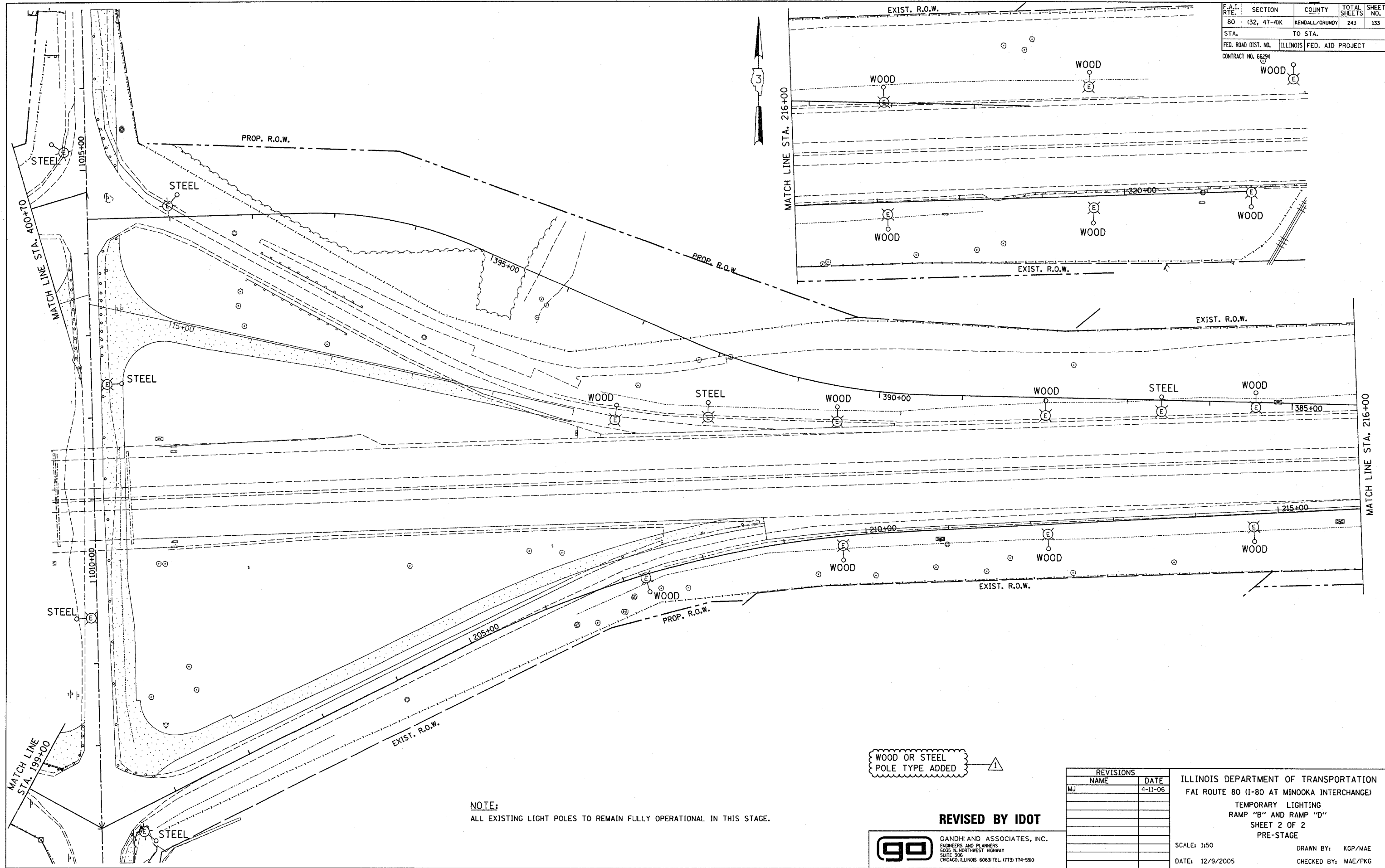
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GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
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SUITE 306  
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
TEMPORARY LIGHTING  
RAMP "A" AND RAMP "C"  
SHEET 1 OF 2  
PRE-STAGE  
SCALE: 1:50  
DATE: 12/9/2005  
DRAWN BY: KGP/MAE  
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**REVISED 4-11-06 MJ**  
PER ADDENDUM

**PATRICK**  
ENGINEERING INC.  
LISLE, ILLINOIS



| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 133          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

**NOTE:**  
ALL EXISTING LIGHT POLES TO REMAIN FULLY OPERATIONAL IN THIS STAGE.

WOOD OR STEEL  
POLE TYPE ADDED

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GANDHI AND ASSOCIATES, INC.  
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
TEMPORARY LIGHTING  
RAMP "B" AND RAMP "D"  
SHEET 2 OF 2  
PRE-STAGE

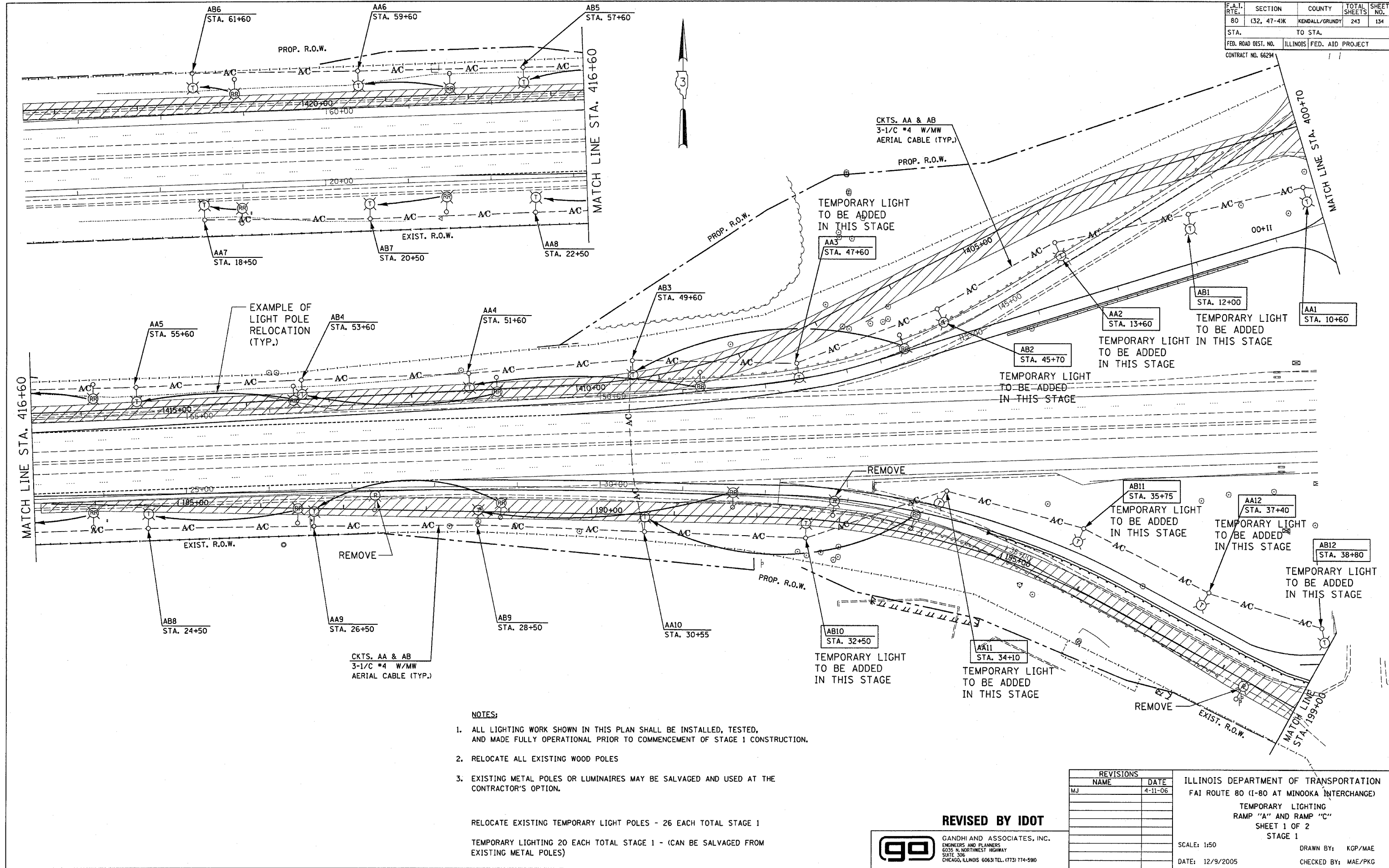
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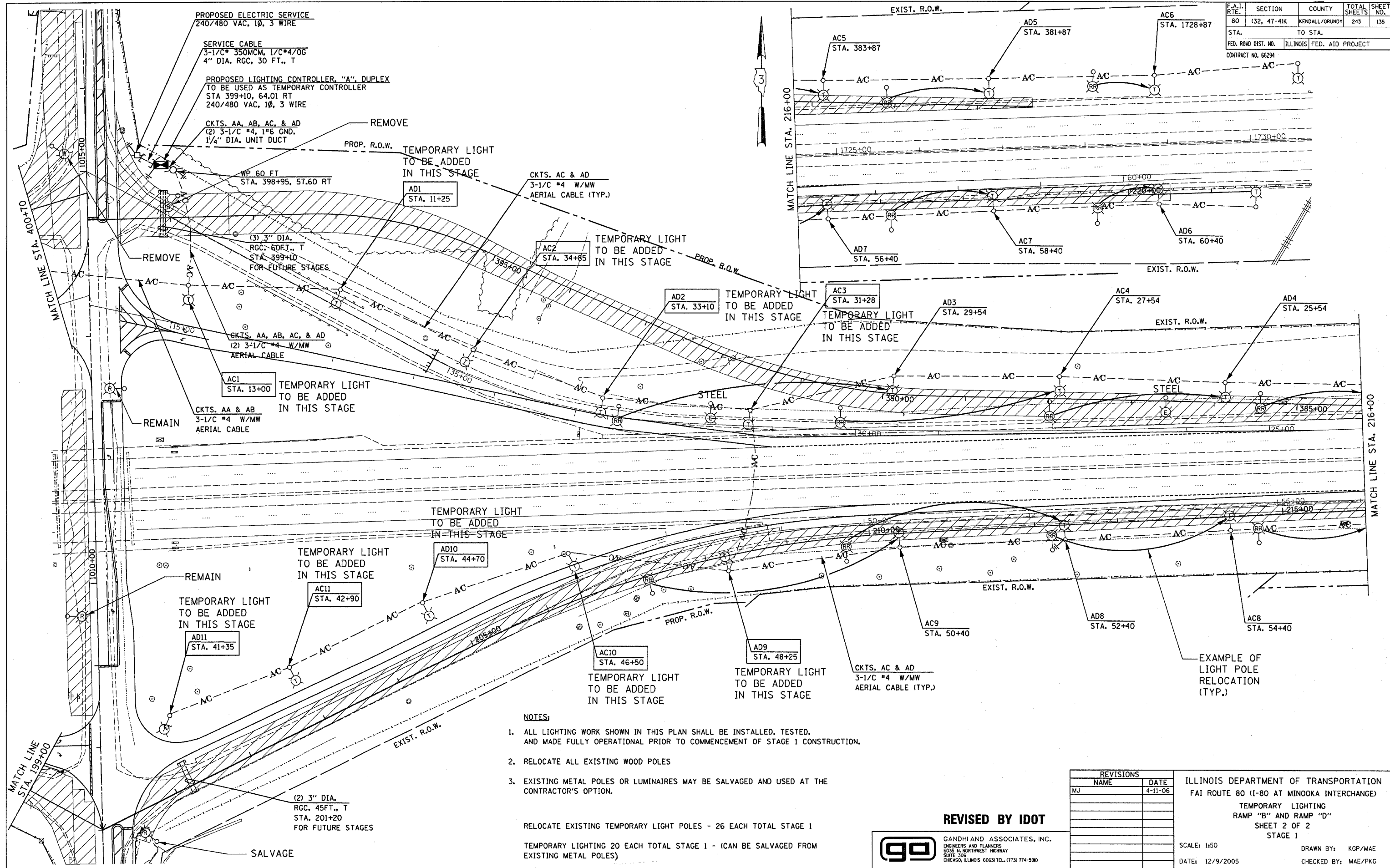
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**REVISED 4-11-06 MJ**  
PER ADDENDUM





| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 135          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

- NOTES:**
- ALL LIGHTING WORK SHOWN IN THIS PLAN SHALL BE INSTALLED, TESTED, AND MADE FULLY OPERATIONAL PRIOR TO COMMENCEMENT OF STAGE 1 CONSTRUCTION.
  - RELOCATE ALL EXISTING WOOD POLES
  - EXISTING METAL POLES OR LUMINAIRES MAY BE SALVAGED AND USED AT THE CONTRACTOR'S OPTION.

RELOCATE EXISTING TEMPORARY LIGHT POLES - 26 EACH TOTAL STAGE 1  
 TEMPORARY LIGHTING 20 EACH TOTAL STAGE 1 - (CAN BE SALVAGED FROM EXISTING METAL POLES)

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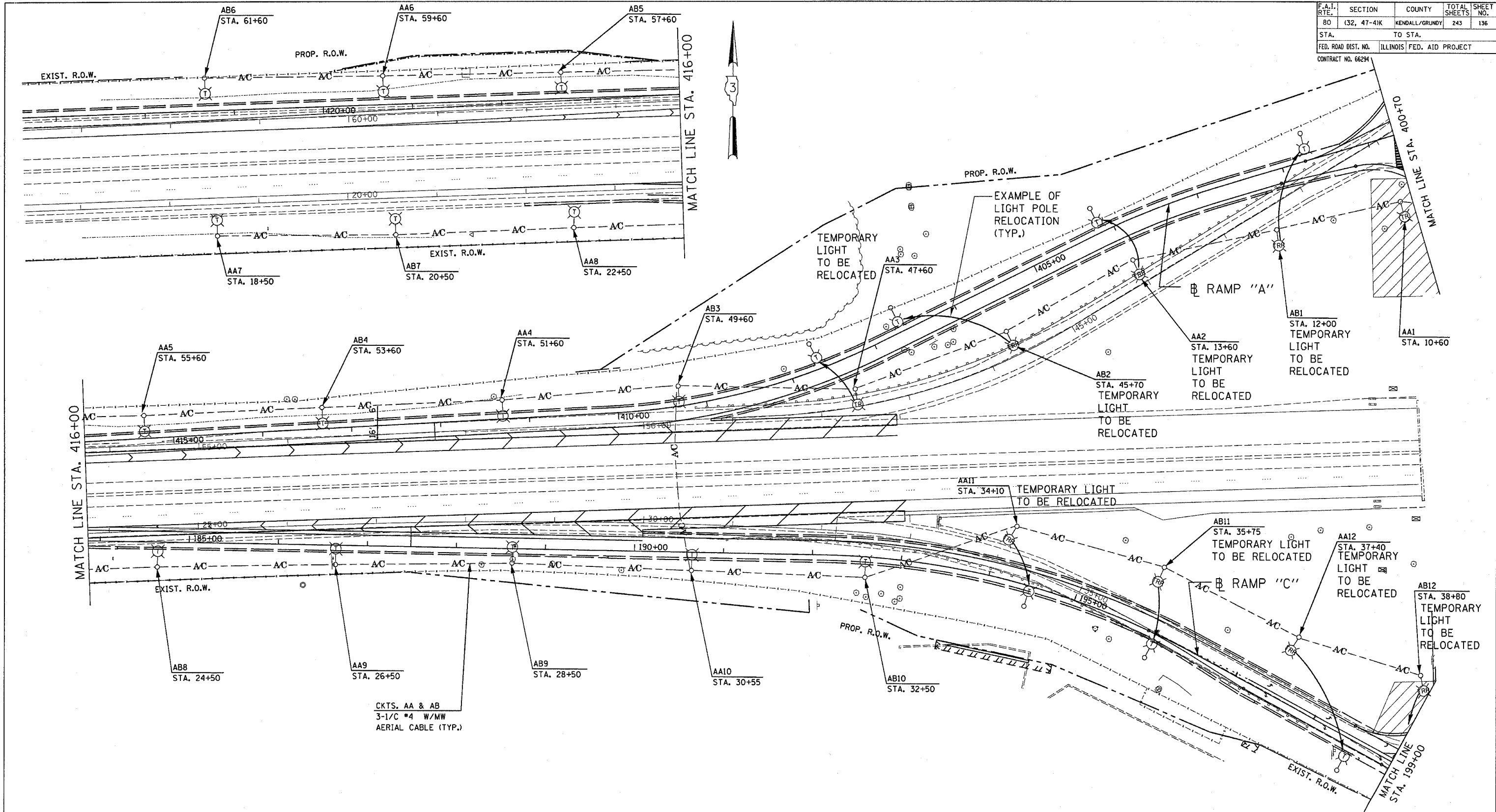
**GA** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5990

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
 TEMPORARY LIGHTING  
 RAMP "B" AND RAMP "D"  
 SHEET 2 OF 2  
 STAGE 1

SCALE: 1:50  
 DATE: 12/9/2005  
 DRAWN BY: KGP/MAE  
 CHECKED BY: MAE/PKG

**ENTIRE SHEET REVISED 4-11-06 MJ**  
 PER ADDENDUM



**NOTES:**

1. ALL LIGHTING WORK SHOWN IN THIS PLAN SHALL BE INSTALLED, TESTED, AND MADE FULLY OPERATIONAL PRIOR TO COMMENCEMENT OF STAGE 1A CONSTRUCTION.
2. THE POLES SHALL BE KEPT OUT OF DITCH AREA AND PLACED AS FAR AS 40', IF NEEDED, TO GET OUT OF FLOW LINE.

**REVISED BY IDOT**

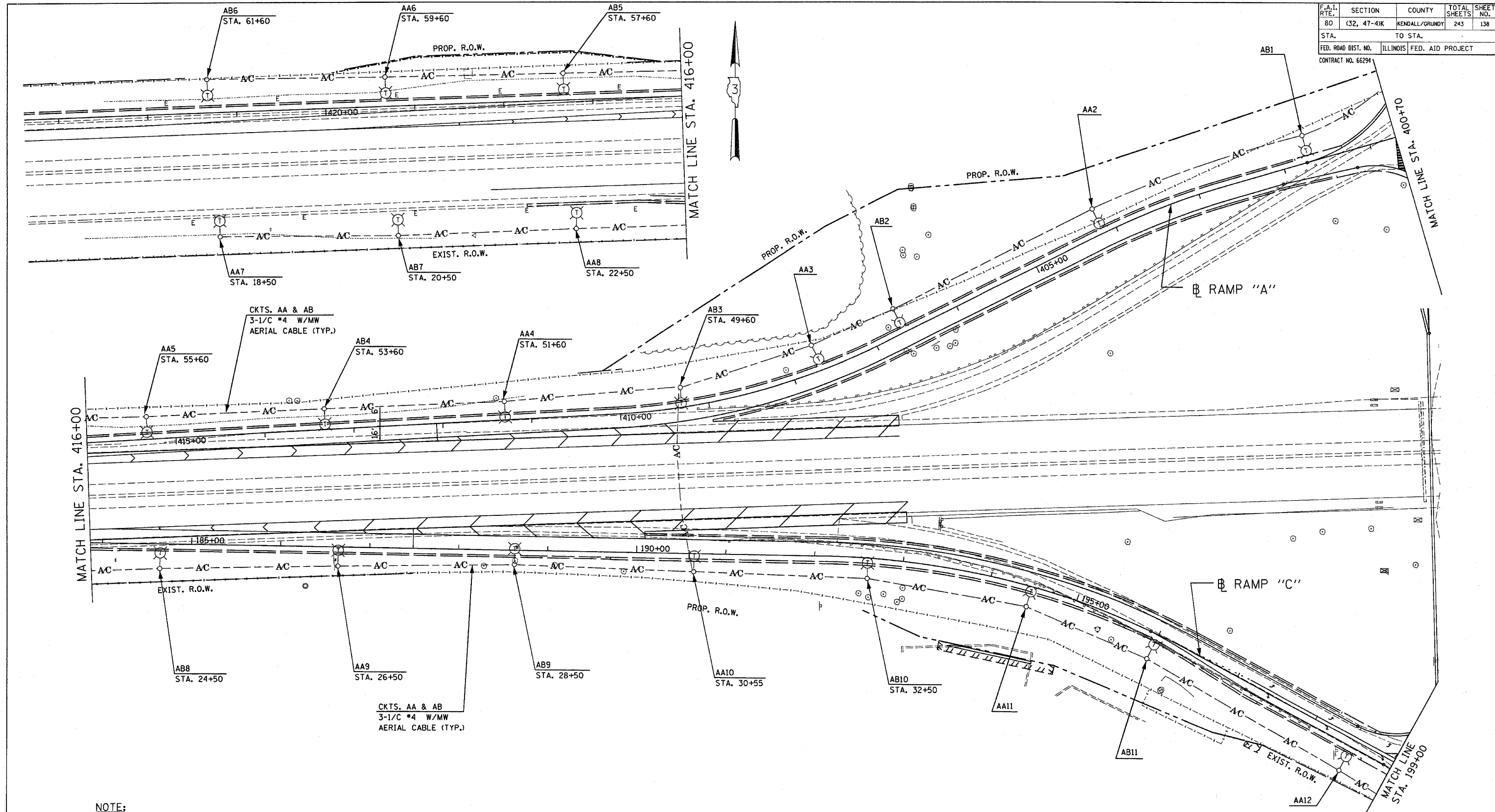


GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
8035 N. NORTHWEST HIGHWAY  
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
TEMPORARY LIGHTING  
RAMP "A" AND RAMP "C"  
SHEET 1 OF 2  
STAGE 1A  
SCALE: 1:50  
DATE: 12/9/2005  
DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG





| F.A.I. RTE.         | SECTION     | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|------------------|--------------|-----------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY   | 243          | 138       |
| STA.                | TO STA.     |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS    | FED. AID PROJECT |              |           |

CONTRACT NO. 66294

**NOTE:**

ALL EXISTING LIGHT POLES SHOWN ON THIS DRAWING WERE INSTALLED IN PRIOR CONSTRUCTION STAGES. SEE THE OTHER TEMPORARY LIGHTING PLAN SHEETS FOR MORE INFORMATION.

**REVISED BY IDOT**



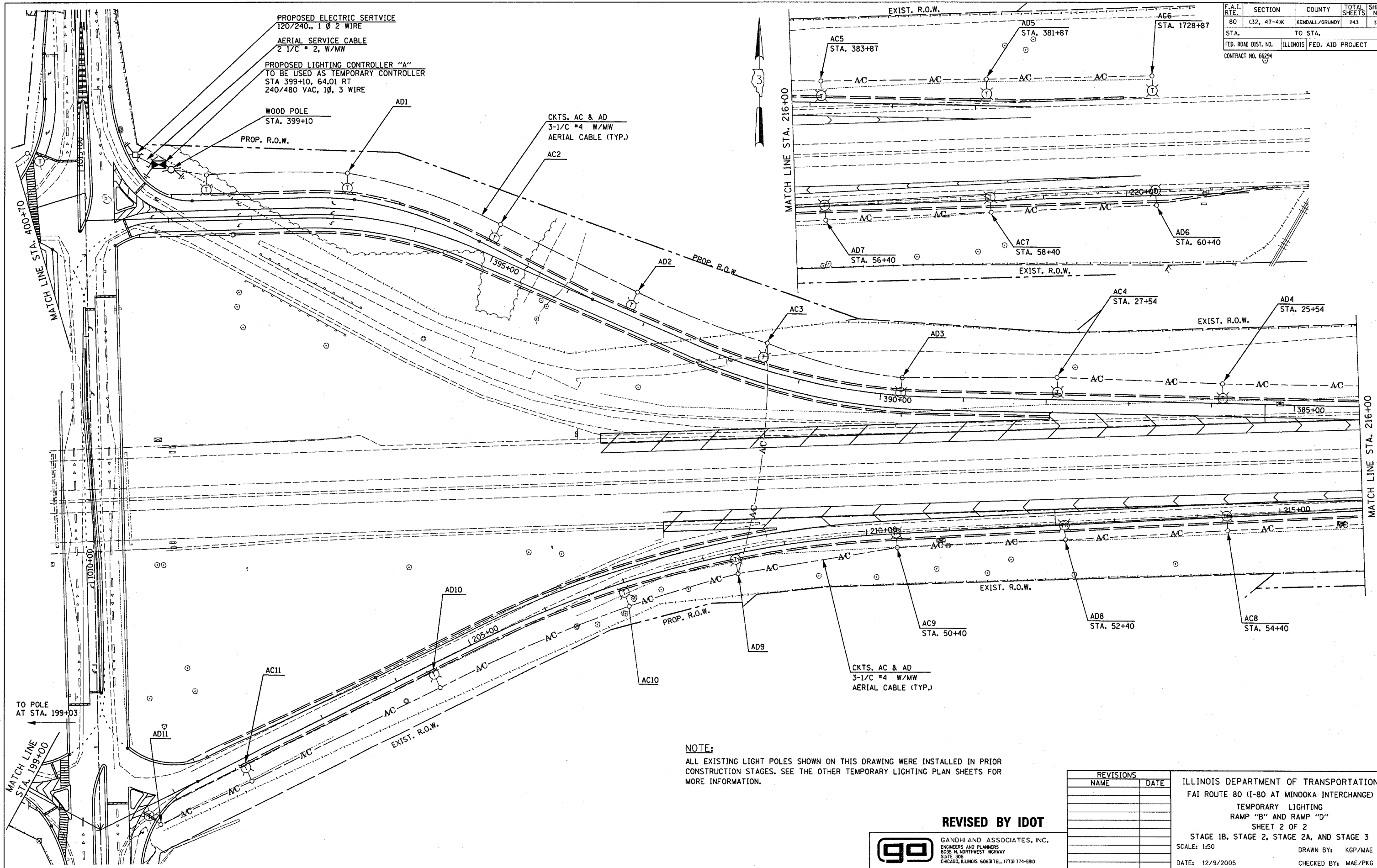
GANDHI AND ASSOCIATES, INC.  
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6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900

| REVISIONS |         |
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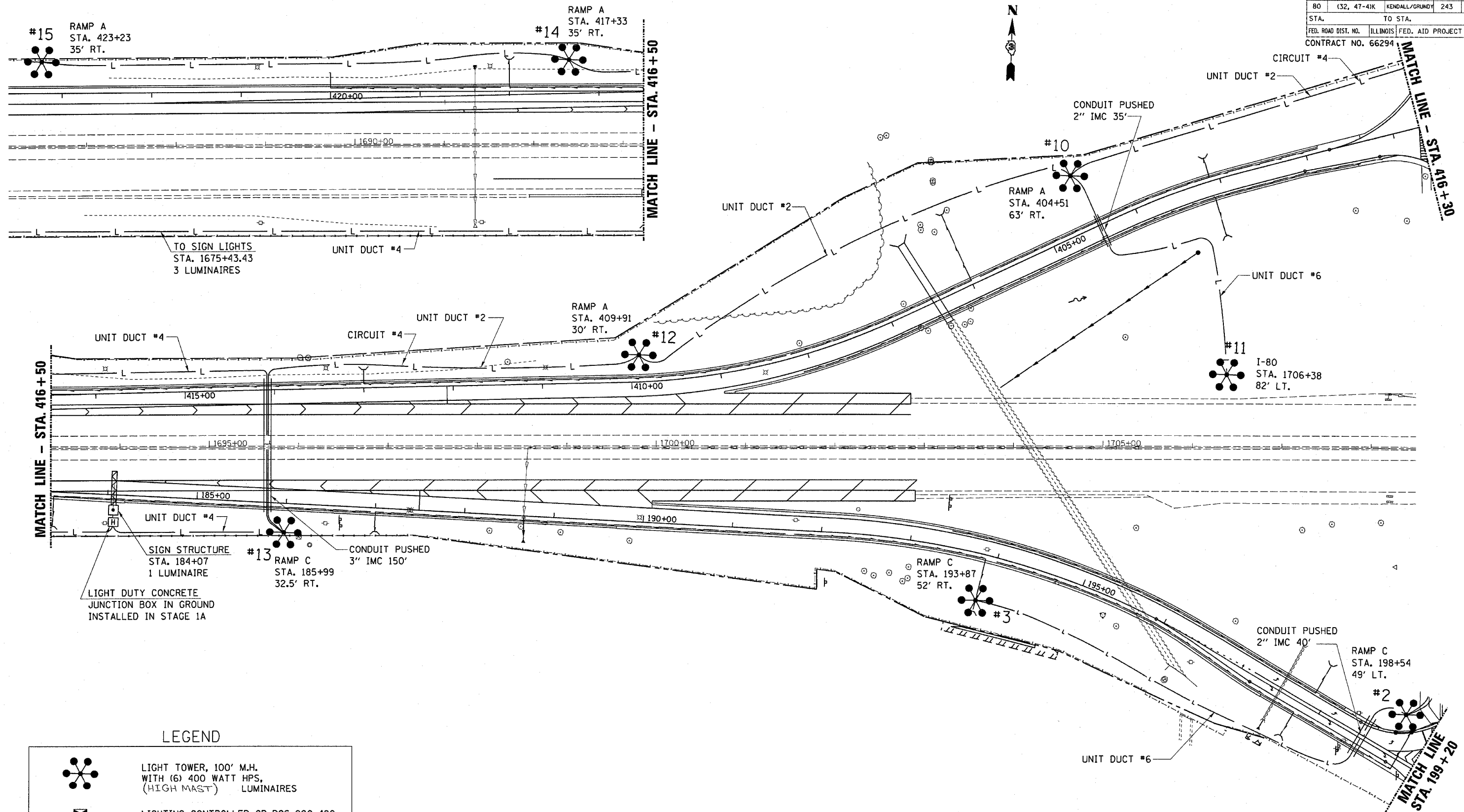
ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
TEMPORARY LIGHTING  
RAMP "A" AND RAMP "C"  
SHEET 1 OF 2  
STAGE 1B, STAGE 2, STAGE 2A, AND STAGE 3  
SCALE: 1:50  
DATE: 12/9/2005  
DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG

**ENTIRE SHEET REVISED 4-11-06 MJ**

PER ADDENDUM

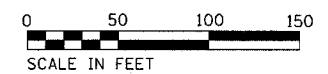


| F.A.I.<br>RTE.      | SECTION     | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------|-------------|------------------|-----------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY   | 243             | 140          |
| STA.                |             | TO STA.          |                 |              |
| FED. ROAD DIST. NO. | ILLINOIS    | FED. AID PROJECT |                 |              |
| CONTRACT NO. 66294  |             |                  |                 |              |



LEGEND

|  |                                                                      |
|--|----------------------------------------------------------------------|
|  | LIGHT TOWER, 100' M.H. WITH (6) 400 WATT HPS, (HIGH MAST) LUMINAIRES |
|  | LIGHTING CONTROLLER CB-RCS-200-480                                   |
|  | CONDUIT PUSHED, INTERMEDIATE METAL (SIZE AS NOTED)                   |
|  | UNIT DUCT 2 1/C XLP, 1 1/C XLPG (SIZED AS NOTED)                     |



| REVISIONS |         |
|-----------|---------|
| NAME      | DATE    |
| MJ        | 4-11-06 |
|           |         |
|           |         |
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|           |         |
|           |         |
|           |         |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED LIGHTING  
RAMP "A" AND RAMP "C"**

**SHEET 1 OF 2**

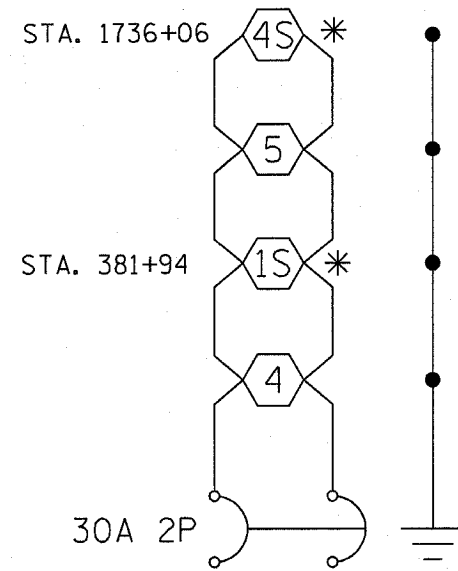
SCALE: VERT. HORIZ.  
DATE

DRAWN BY  
CHECKED BY

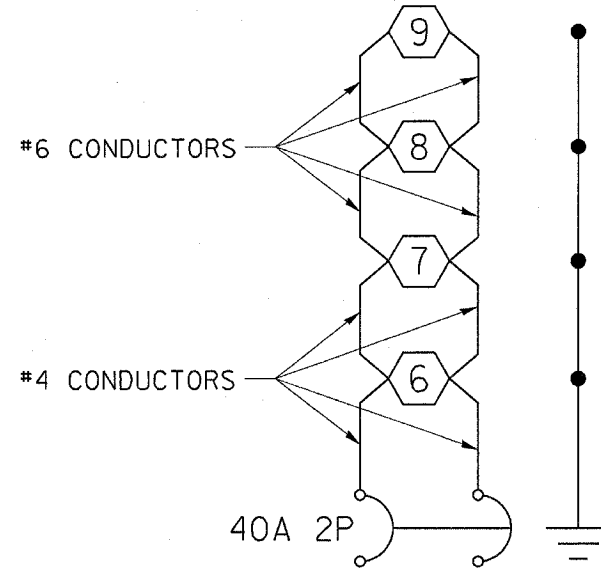
**ENTIRE SHEET REVISED 4-11-06 MJ**  
PER ADDENDUM

PLOT DATE: 4/18/2006  
PLOT SCALE: 1"=100'  
PLOT NAME: 66294-140  
USER NAME: RUSERS



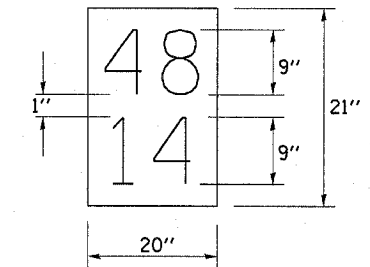


CIRCUIT 1  
ALL CONDUCTOR IS #6



CIRCUIT 2

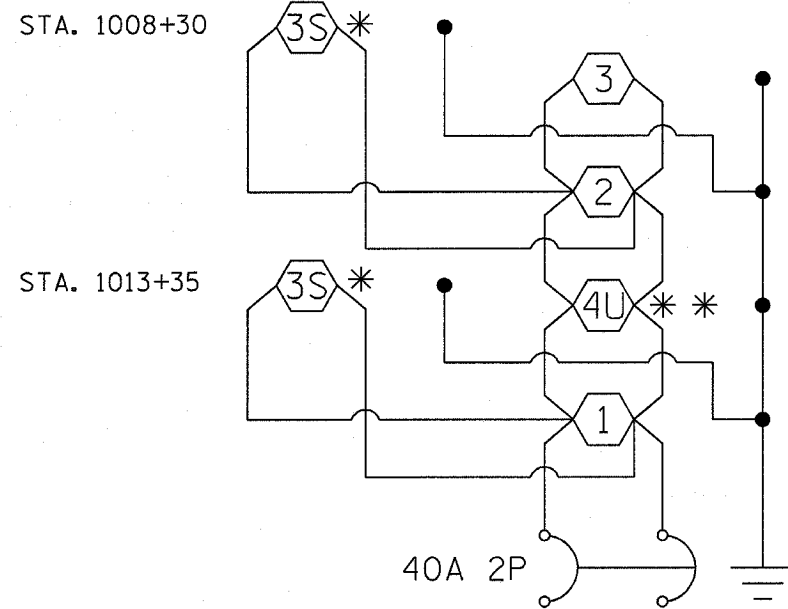
#### LIGHT POLE IDENTIFICATION



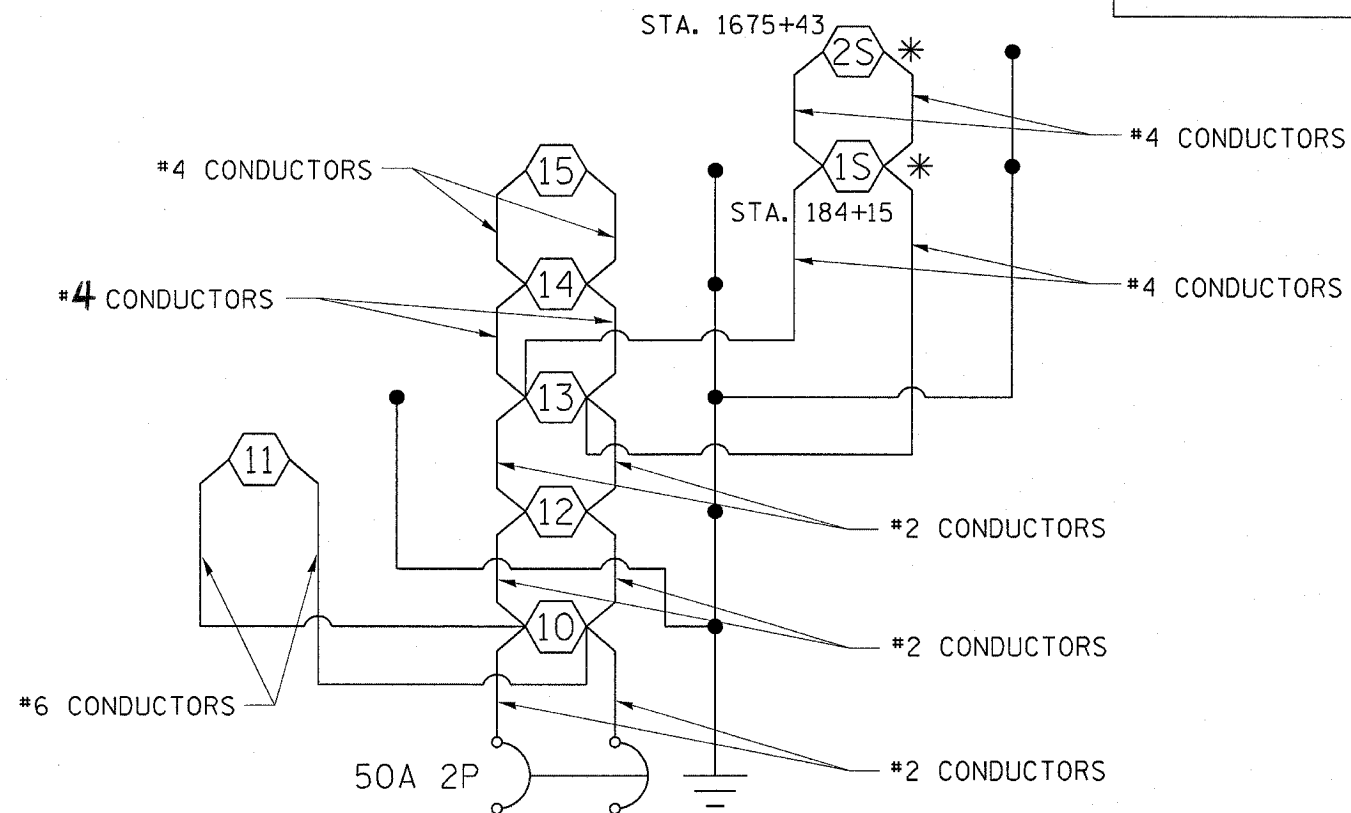
THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION ON EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM.

THE LIGHT POLE IDENTIFICATION SHALL BE AS SPECIFIED IN ARTICLE 1069.02 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. APPROXIMATELY 7' ABOVE THE ADJACENT PAVEMENT GRADE, VISIBLE TO APPROACHING TRAFFIC, IN ACCORDANCE WITH HIGHWAY STANDARD 720001.

I-80 & RIDGE ROAD LOCATION NUMBER 48, POLE NUMBER 1-15.



CIRCUIT 3  
ALL CONDUCTOR IS #6



CIRCUIT 4

#### LEGEND

- \* SIGN LIGHTING
- \*\* UNDERPASS LIGHTING

| REVISIONS |         |
|-----------|---------|
| NAME      | DATE    |
| MJ        | 4-11-06 |
|           |         |
|           |         |
|           |         |
|           |         |
|           |         |
|           |         |
|           |         |
|           |         |

ILLINOIS DEPARTMENT OF TRANSPORTATION

#### PROPOSED LIGHTING CIRCUIT DIAGRAMS

SCALE: VERT.  
HORIZ.

DRAWN BY  
CHECKED BY

① ADDED SHEET 4-11-06 MJ

PER ADDENDUM

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE

1/1/03

| GIVEN CONDITIONS |                                    |                |  |
|------------------|------------------------------------|----------------|--|
| ROADWAY DATA:    | Pavement Width                     | 96 FT          |  |
|                  | Number Of Lanes                    | 8              |  |
|                  | Median Width                       | 10 FT          |  |
|                  | IES Surface Classification         | R3             |  |
|                  | Q-Zero Value                       | 0.07           |  |
| TOWER DATA:      | Mounting Height                    | 100 FT         |  |
|                  | Luminaire Count on Ring            | 6              |  |
|                  | Twr Set-Back From Edge Of Pavement | 40-60 FT       |  |
| LUMINAIRE DATA:  | Lamp Type                          | HPS            |  |
|                  | Lamp Lumens                        | 50,000         |  |
|                  | IES Vertical Distribution          | M              |  |
|                  | IES Control Of Distribution        | C              |  |
|                  | IES Lateral Distribution           | II             |  |
|                  | Total Light Loss Factor            | 0.6            |  |
| LAYOUT DATA:     | Spacing                            | 750 FT         |  |
|                  | Configuration                      | Stagrd         |  |
|                  | Luminaire Aiming Pattern           | All 1 Direct'n |  |

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

|               |                                         |             |                   |
|---------------|-----------------------------------------|-------------|-------------------|
| ILLUMINATION: | Average Horizontal Illumination, (EAve) | 9 Lux       |                   |
|               | Uniformity Ratio, (EAve/EMin)           | 3.0         |                   |
| LUMINANCE:    | Average Luminance:                      | (LAve)      | Cd/m <sup>2</sup> |
|               | Uniformity Ratios:                      | (LAve/LMin) |                   |
|               |                                         | (LMax/LMin) |                   |
|               |                                         |             |                   |
|               | Maximum Velling Luminance Ratio:        | (Lv/LAve)   |                   |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
UNDERPASS LUMINAIRE PERFORMANCE TABLE

1/1/03

| GIVEN CONDITIONS    |                                               |             |  |
|---------------------|-----------------------------------------------|-------------|--|
| ROADWAY DATA:       | Pavement Width                                | 24 FT       |  |
|                     | Number Of Lanes                               | 2           |  |
|                     | Median Width                                  | N/A FT      |  |
|                     | IES Surface Classification                    | R3          |  |
|                     | Q-Zero Value                                  | 0.07        |  |
| LUMINAIRE LOCATION: | Mounting Height                               | 16 FT       |  |
|                     | Wall (W) or Overhead (O) Mount                | W           |  |
|                     | Lum Set-Back From Edge Of Pavement            | 12 FT       |  |
| LUMINAIRE DATA:     | Lamp Type                                     | HPS         |  |
|                     | Lamp Lumens                                   | 16,000      |  |
|                     | IES Vertical Distribution                     | S           |  |
|                     | IES Control Of Distribution                   | N           |  |
|                     | IES Lateral Distribution                      | IV          |  |
|                     | Total Light Loss Factor                       | 0.6         |  |
| LAYOUT DATA:        | Spacing                                       | 45 FT       |  |
|                     | Configuration                                 | 1 side only |  |
|                     | Luminaire Overhang Over Edge Of Pavement Lane | -12 FT      |  |
|                     |                                               |             |  |

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

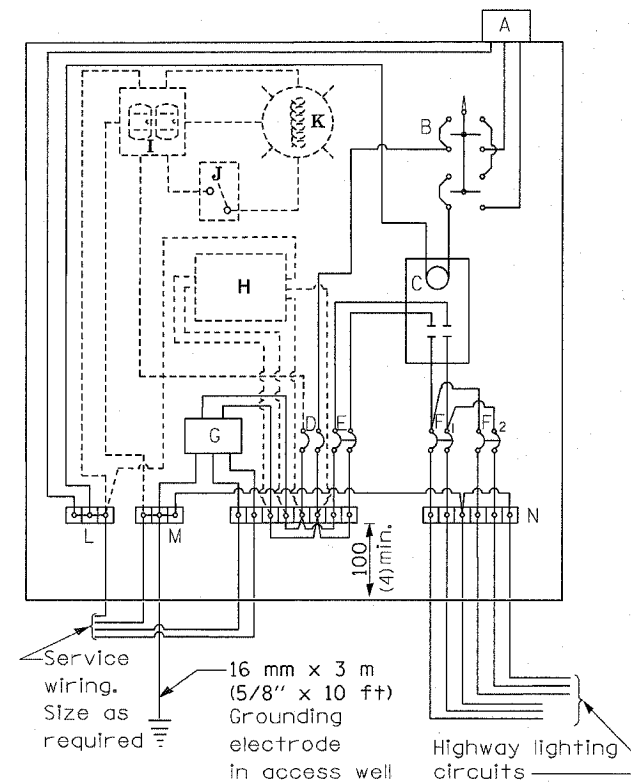
|               |                                         |             |                       |
|---------------|-----------------------------------------|-------------|-----------------------|
| ILLUMINATION: | Average Horizontal Illumination, (EAve) | 17 Lux      |                       |
|               | Uniformity Ratio, (EAve/EMin)           | 3.0         |                       |
| LUMINANCE:    | Average Luminance:                      | (LAve)      | 1.2 Cd/m <sup>2</sup> |
|               | Uniformity Ratios:                      | (LAve/LMin) | 3.0                   |
|               |                                         | (LMax/LMin) | 5.0                   |
|               |                                         |             |                       |
|               | Maximum Velling Luminance Ratio:        | (Lv/LAve)   | 0.3                   |

| REVISIONS                        |         | ILLINOIS DEPARTMENT OF TRANSPORTATION       |  |
|----------------------------------|---------|---------------------------------------------|--|
| NAME                             | DATE    |                                             |  |
| MJ                               | 4-11-06 | <b>LUMINAIRE<br/>PERFORMANCE<br/>TABLES</b> |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
|                                  |         |                                             |  |
| SCALE: VERT. _____<br>DATE _____ |         | DRAWN BY _____<br>CHECKED BY _____          |  |

| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 147          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

## MATERIALS

- A Photocell w/ Integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 100 amp\* electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 100 amp\*, 2 pole, main circuit breaker
  - F 20 amp\*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrestor
  - H Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)



CONTROL SCHEMATIC

## GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

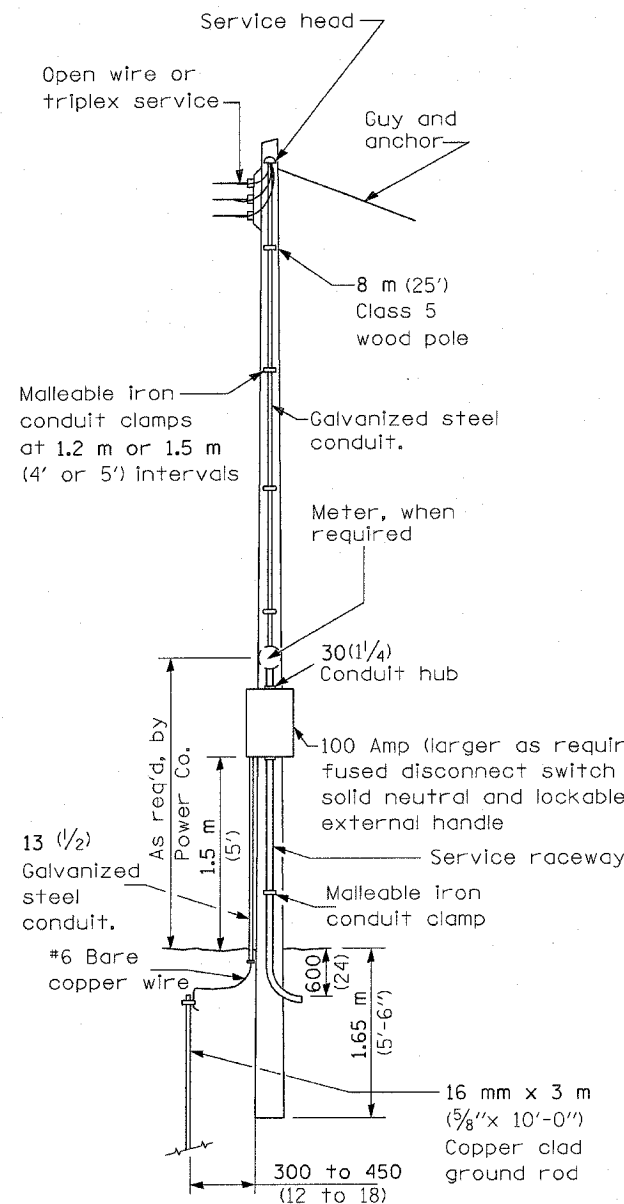
For 480 V service, a step down transformer (dashed lines) is required.

Raceways shall terminate 75 (3) above top of concrete foundation.

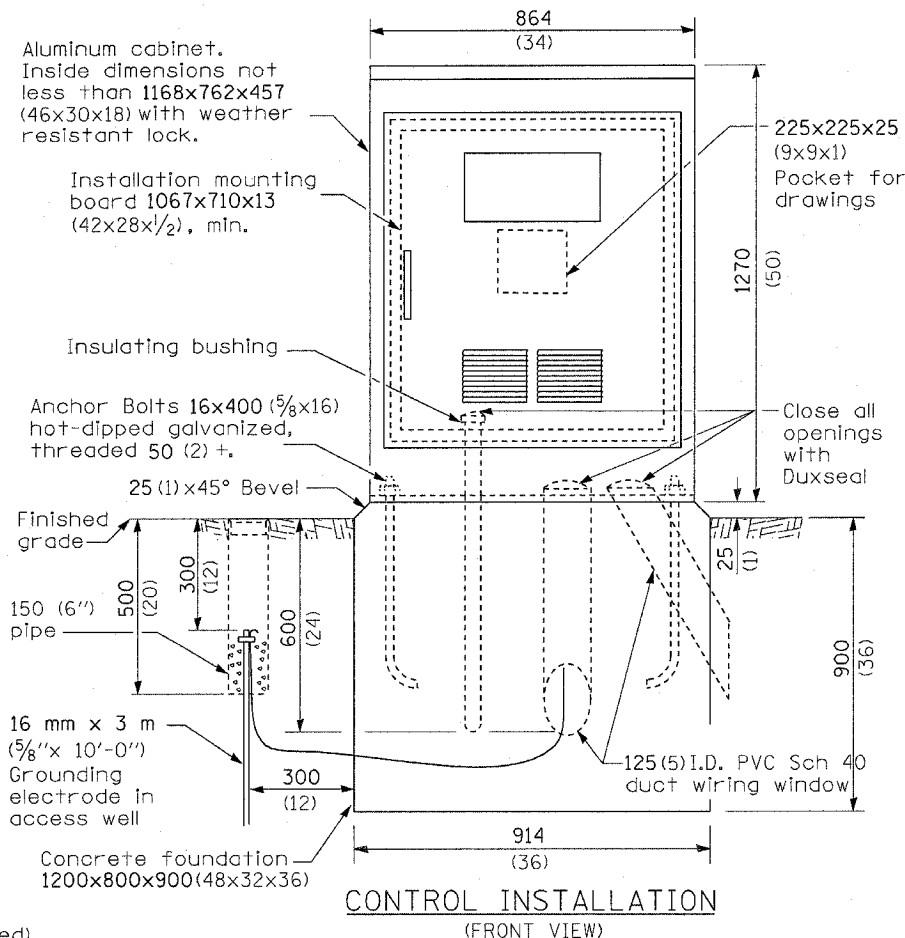
Label equipment ground buss and neutral buss.

All dimensions are in millimeters (Inches) unless otherwise shown.

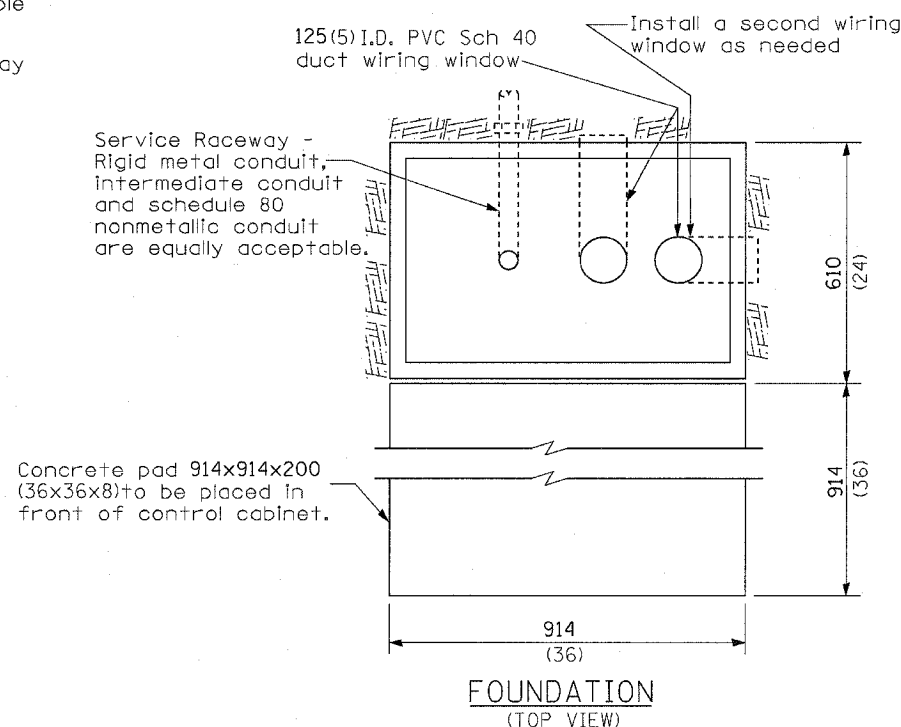
- ☐ 240 V. SERVICE
- ☒ 480 V. SERVICE



SERVICE POLE



CONTROL INSTALLATION  
(FRONT VIEW)



FOUNDATION  
(TOP VIEW)

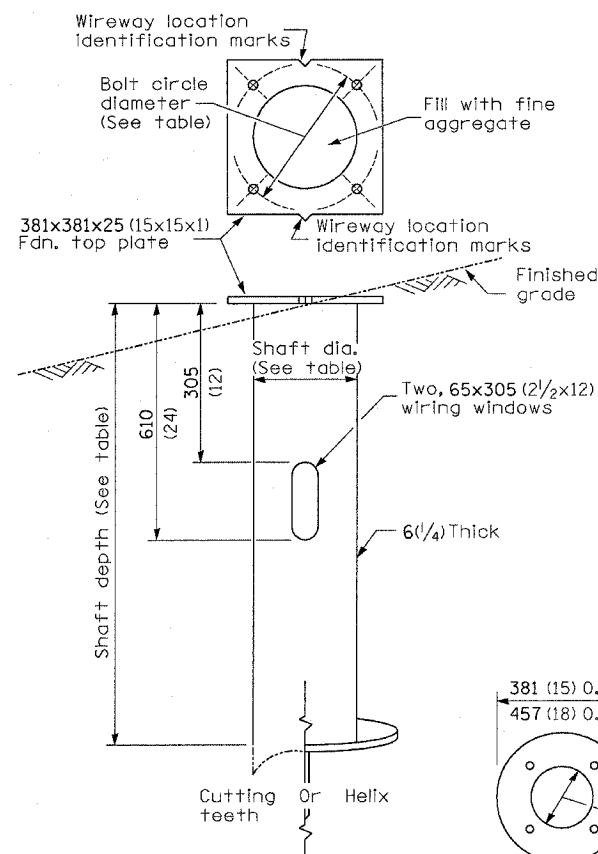
| DATE | REVISIONS         |
|------|-------------------|
|      | Corrected 1/19/06 |
|      |                   |
|      |                   |
|      |                   |
|      |                   |

CONTROL INSTALLATION  
Base Mount Cabinet

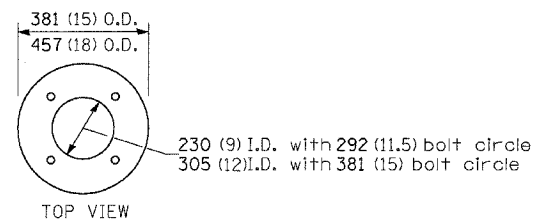
| F.A.I.<br>RTE.      | SECTION     | COUNTY         | TOTAL<br>SHEETS  | SHEET<br>NO. |
|---------------------|-------------|----------------|------------------|--------------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 148          |
| STA.                |             | TO STA.        |                  |              |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |              |
| CONTRACT NO. 66294  |             |                |                  |              |

| LIGHT POLE<br>MOUNTING HEIGHT | BOLT CIRCLE<br>DIAMETER | STEEL FOUNDATION  |                      | CONCRETE FOUNDATION |                   |                        |
|-------------------------------|-------------------------|-------------------|----------------------|---------------------|-------------------|------------------------|
|                               |                         | SHAFT<br>DIAMETER | SHAFT<br>DEPTH       | SHAFT<br>DIAMETER   | SHAFT<br>DEPTH    | ANCHOR ROD<br>LENGTH * |
| 9.1 m<br>(30')                | 292 mm<br>(11½")        | 220 mm<br>(8⅝")   | 1.83 m<br>(6'-0")    | 610mm<br>(24")      | 1.52 m<br>(5'-0") | 1.45 m<br>(4'-9")      |
| 9.4 m - 10.7 m<br>(31'-35')   | 292 mm<br>(11½")        | 220 mm<br>(8⅝")   | 1.83 m<br>(6'-0")    | 610mm<br>(24")      | 1.67 m<br>(5'-6") | 1.60 m<br>(5'-3")      |
| 10.9 m - 12.2 m<br>(36'-40')  | 381 mm<br>(15")         | 220 mm<br>(8⅝")   | 1.83 m **<br>(6'-0") | 610mm<br>(24")      | 1.83 m<br>(6'-0") | 1.75 m<br>(5'-9")      |
| 12.5 m - 13.7 m<br>(41'-45')  | 381 mm<br>(15")         | 220 mm<br>(8⅝")   | 1.83 m **<br>(6'-0") | 610mm<br>(24")      | 1.98 m<br>(6'-6") | 1.90 m<br>(6'-3")      |
| 14.0 m - 15.2 m<br>(46'-50')  | 381 mm<br>(15")         | 220 mm<br>(8⅝")   | 2.44 m<br>(8'-0")    | 610mm<br>(24")      | 2.13m<br>(7'-0")  | 2.00 m<br>(6'-9")      |

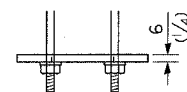
\* Length does not include 100 (4)hook  
 \*\* 220 mm x 2.44 m (8<sup>5</sup>/<sub>8</sub>"x 8'-0")for Twin luminaires



STEEL FOUNDATION



TOP VIEW



RING PLATE DETAIL  
(When rock is encountered  
and foundation is shallower)

Notes:

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

Notes:

Wireway may be on front, back, or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

Top of schedule 40 PVC 125(5)  
I.D. PVC wiring window, shall  
be flush with the top of  
foundation for drainage.

75 (3) Min. concrete cover  
on all steel

25 (1) Ø Steel anchor rod with 230 (9) of threads. See table for the required bolt circle diameter.

19 (3/4) - 45° Bevel  
Finished grade

Anchor rod shall extend through nut 10 to 25 (3/4 to 1). For barrier or foundations located behind guardrail, use self-locking nut and flat washer. Do not use lock washer. Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

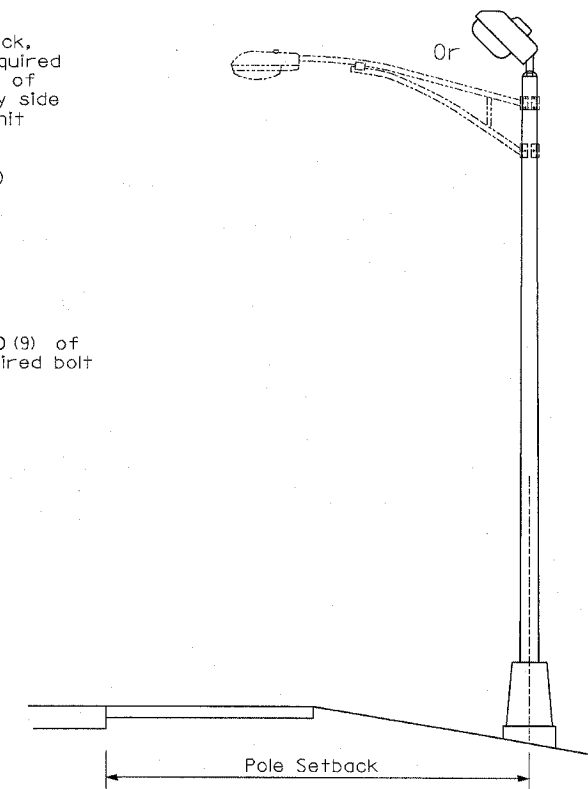
\*\*\* If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6)

125 (5) I.D. P.V.C.  
wireway window.  
Fill with fine  
aggregate

Cast bronze clamp  
16 mm x 3 m (5/8" x 10')  
Copperclad grounding  
electrode. When foundation  
is set in rock, install ground  
electrode in cable trench.

See Ring  
Plate Detail

CONCRETE FOUNDATION



Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.

LIGHT POLE  
FOUNDATION

[illegible]

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

LIGHTING STANDARDS  
LIGHT POLE FOUNDATION

SCALE: NONE  
DATE: 12/9/20

DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG

LGT007-836



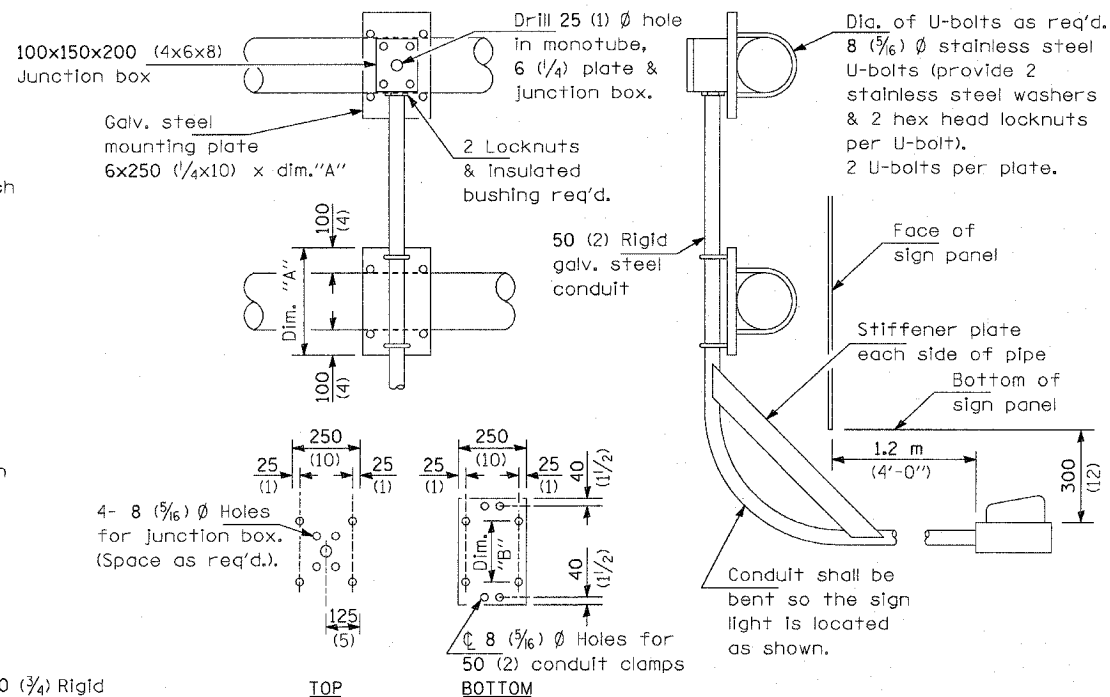
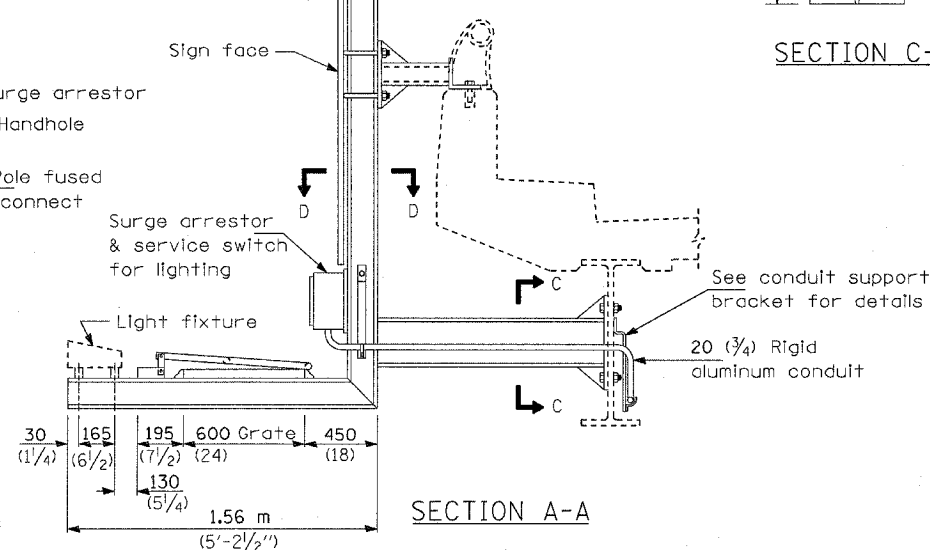
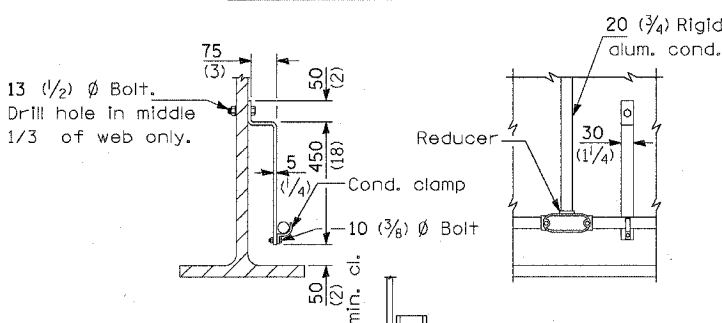
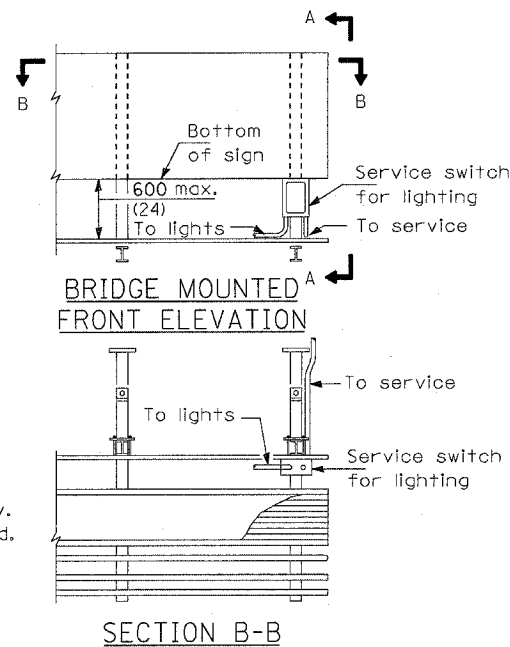
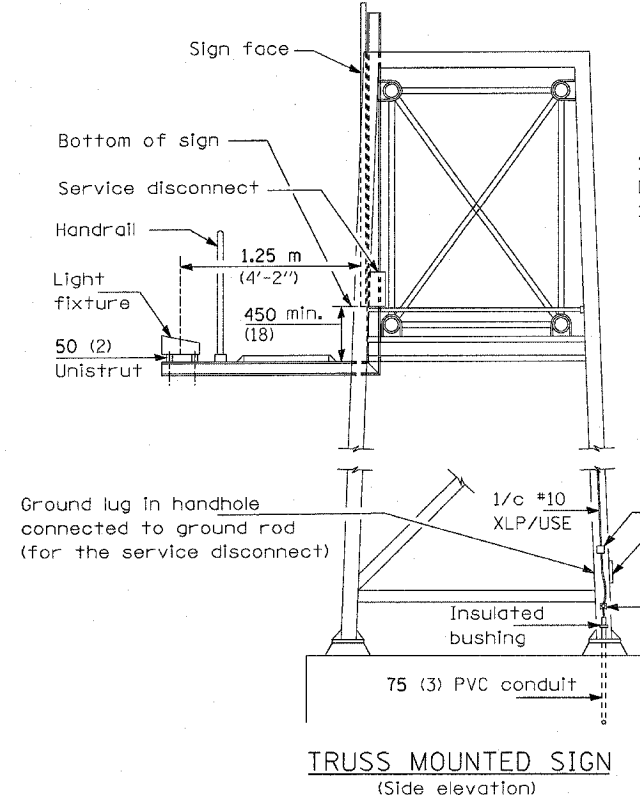
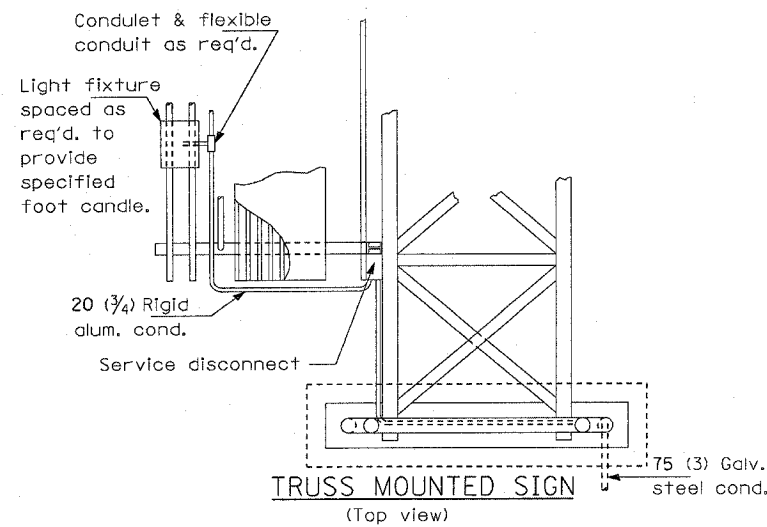
**GANDHI AND ASSOCIATES, INC.**  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

REVISED  ADDED SHEET PER ADDENDUM 4-11-06



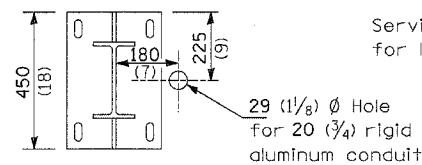


| F.A.I. RTE.         | SECTION     | COUNTY         | TOTAL SHEETS     | SHEET NO. |
|---------------------|-------------|----------------|------------------|-----------|
| 80                  | (32, 47-4)K | KENDALL/GRUNDY | 243              | 151       |
| STA.                |             | TO STA.        |                  |           |
| FED. ROAD DIST. NO. |             | ILLINOIS       | FED. AID PROJECT |           |
| CONTRACT NO. 66294  |             |                |                  |           |

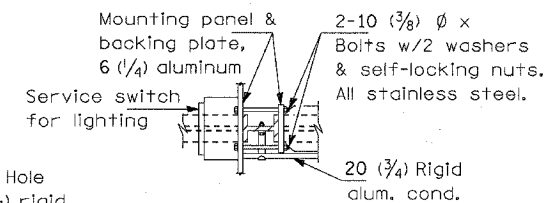


Dimension "A" = monotube dia. + 200 (8)  
Dimension "B" = monotube dia. + 10 (3/8)

#### MOUNTING PLATES



#### SECTION C-C



#### SECTION D-D

#### GENERAL NOTES

All sign lighting fixtures shall have a minimum of 3 mounting points.

All mounting hardware shall be stainless steel.

All dimensions are in millimeters unless otherwise shown.

#### SIGN LIGHTING DETAILS

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

LIGHTING STANDARDS  
SIGN LIGHTING DETAILS

SCALE: NONE  
DATE: 12/9/2005

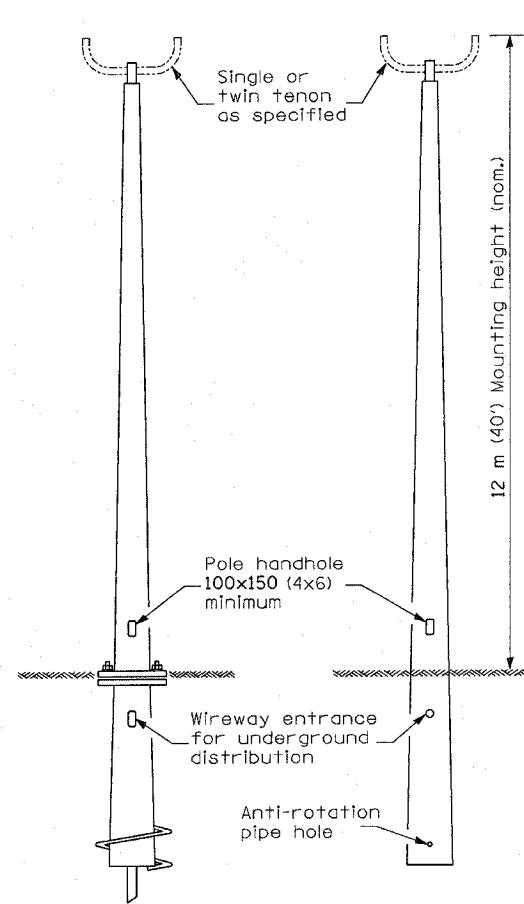
DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG

LGTO13.M32



GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

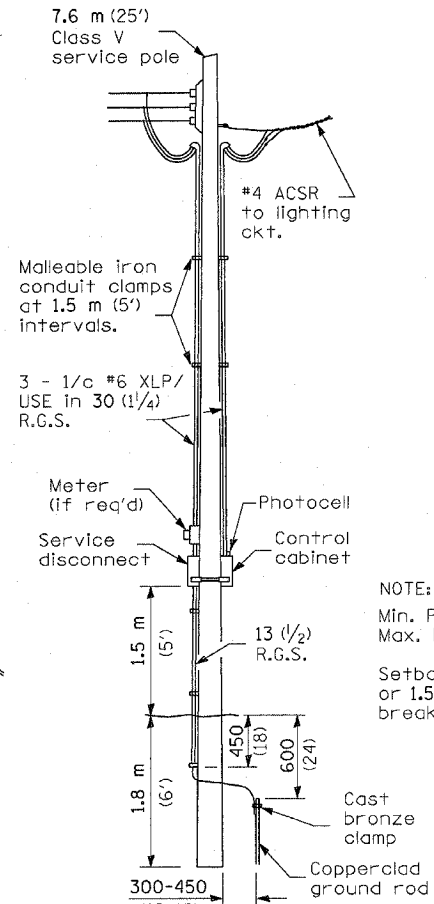
REVISED  $\Delta$  ADDED SHEET PER ADDENDUM 4-11-06



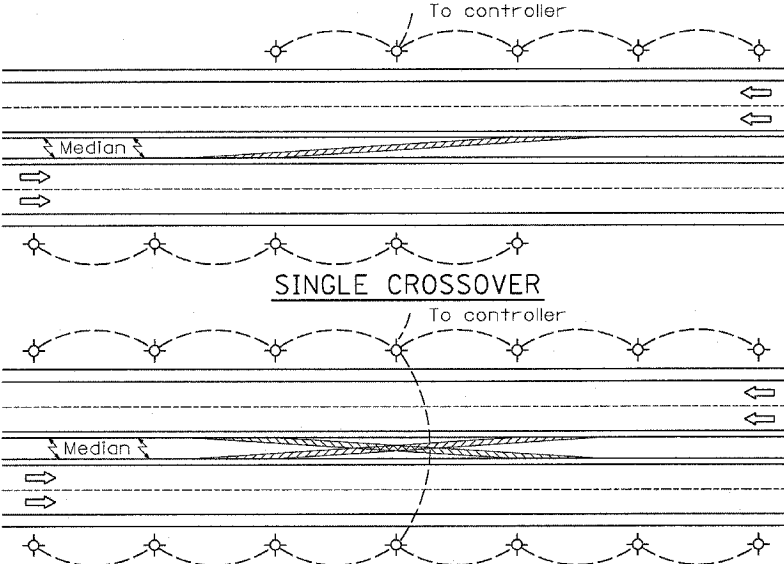
**ANCHOR BASE W/  
METAL FOUNDATION**

**BUTT BASE**

**POLE, FIBERGLASS  
BREAKAWAY TYPE**



**SERVICE  
INSTALLATION**



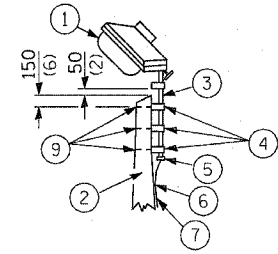
**SINGLE CROSSOVER**

**DUAL CROSSOVER**

NOTE:  
Min. Pole spacing 60 m (200')  
Max. Pole spacing 75 m (250')  
  
Setback shall be min. 9 m (30')  
or 1.5 m (5') back of ditch, unless  
breakaway type pole is used.

- ① Luminaire 250w HPS
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type USE cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length

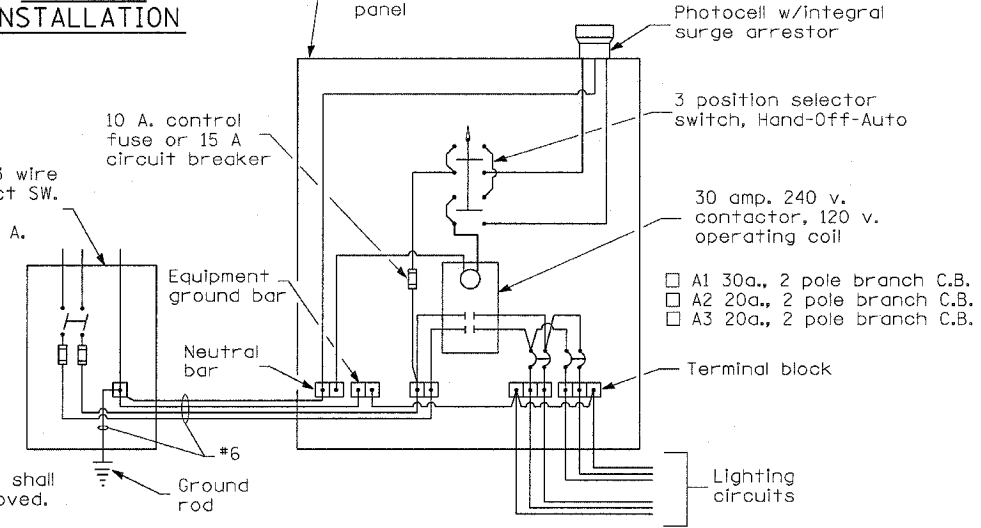
NOTE:  
  
Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.  
  
Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.  
  
Connect luminaire equipment ground to ACSR messenger.



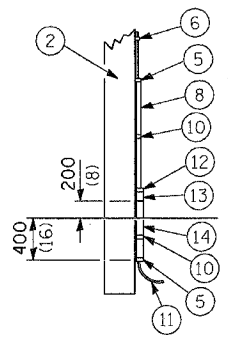
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.

\* 2- Pole, 3 wire disconnect SW. NEMA 3R fused 30 A.

NOTE:  
All equipment shall be U.L. approved.  
  
\* 30 A. or 60 A., dependent upon utility co. rules.



**WIRING DIAGRAM**



**POLE, WOOD**

| POLE LENGTH  | DEPTH IN GROUND |
|--------------|-----------------|
| 19.8 m (65') | 3.6 m (12')     |
| 18.0 m (60') | 3.0 m (10')     |
| 16.8 m (55') | 2.7 m (9')      |
| 16.0 m (50') | 2.4 m (8')      |
| 13.7 m (45') | 2.1 m (7')      |
| 12.0 m (40') | 2.0 m (6.5')    |
| 10.7 m (35') | 1.8 m (6')      |
| 9.0 m (30')  | 1.7 m (5.5')    |

All dimensions are in millimeters (inches) unless otherwise shown.

**TEMPORARY  
ROADWAY LIGHTING**

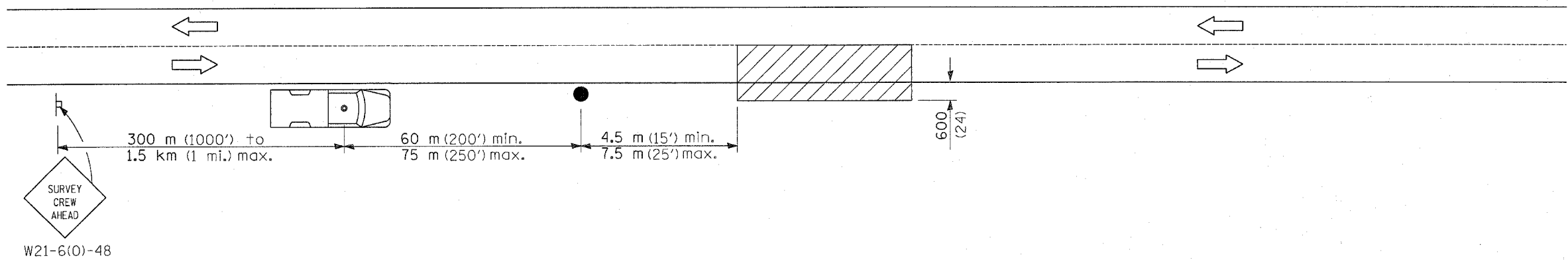
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
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|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)  
  
LIGHTING STANDARDS  
TEMPORARY LIGHTING DETAILS  
  
SCALE: NONE  
DATE: 12/9/2005  
DRAWN BY: KGP/MAE  
CHECKED BY: MAE/PKG

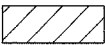
LGT014.M32

**GA** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-590

REVISED ADDED SHEET PER ADDENDUM 4-11-06



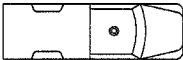
SYMBOLS



Work area



Sign on portable or permanent support



Truck with flashing amber light and dual emergency flashers



Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

All dimensions are in millimeters (inches)  
unless otherwise shown.

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

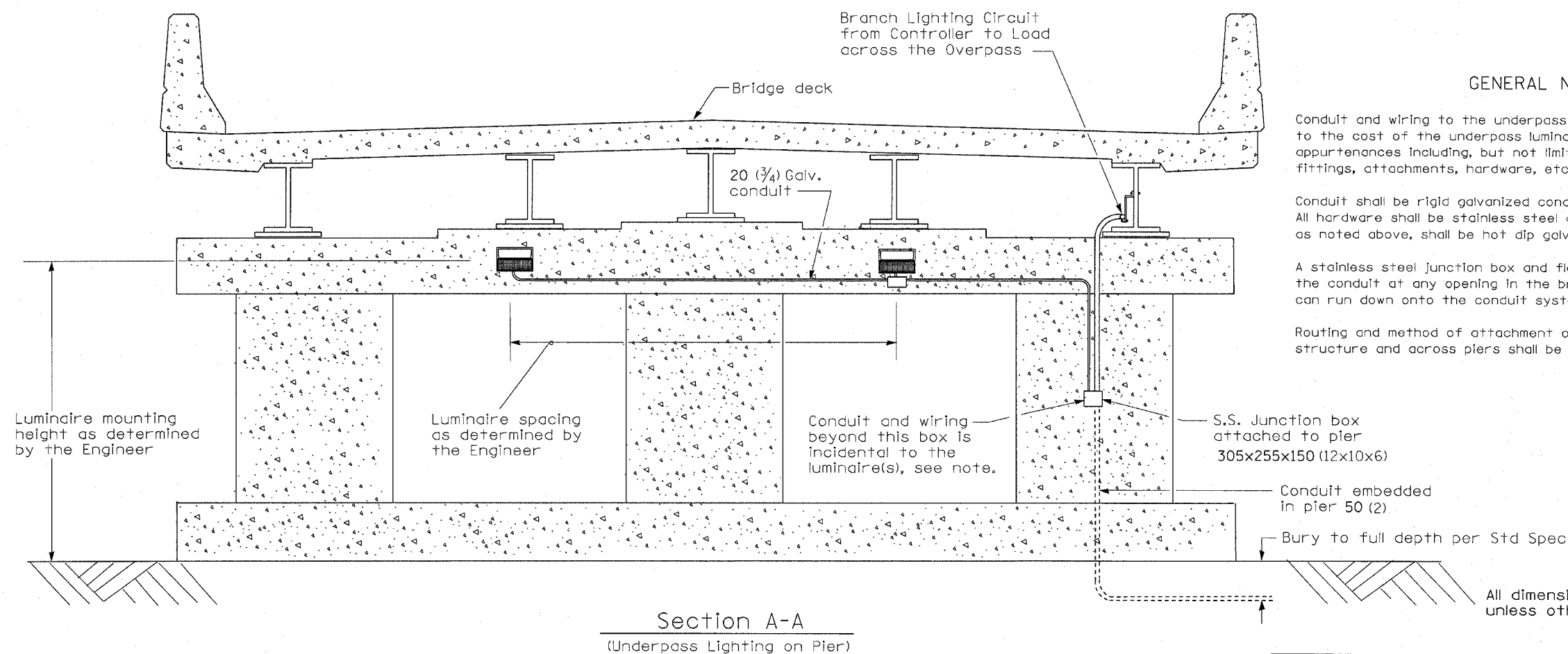
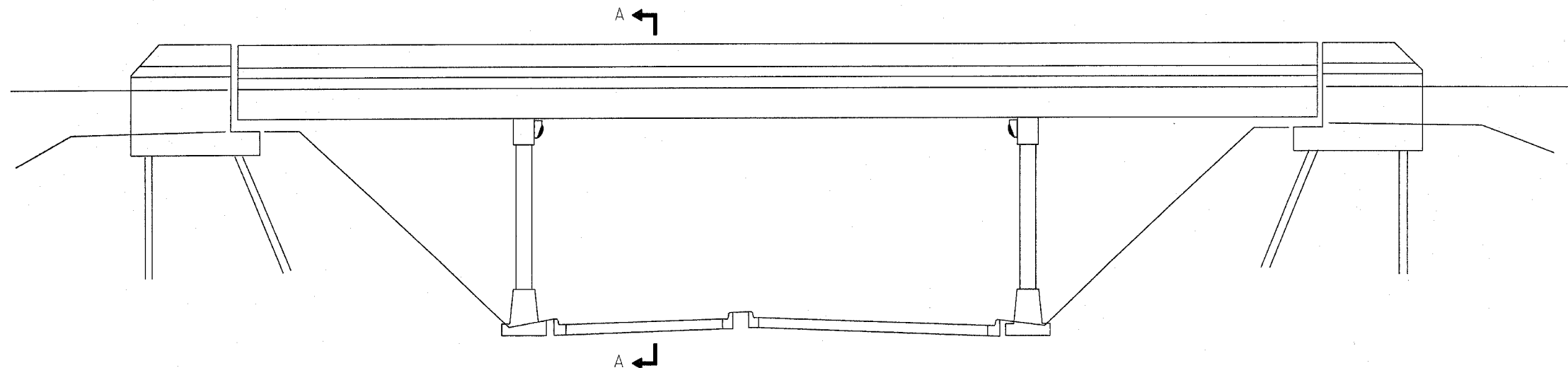
DETAIL FOR  
NIGHTTIME LIGHTING  
INSPECTION

⚠️ **ADDED SHEET 4-11-06 MJ**

LGT017.M32

PER ADDENDUM

| F.A.I.<br>RTE.        | SECTION     | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
|-----------------------|-------------|------------------|-----------------|--------------|
| 80                    | (32, 47-4)K | KENDALL/GRUNDY   | 243             | 153          |
| STA.                  |             | TO STA.          |                 |              |
| FED. ROAD DIST. NO. _ |             | ILLINOIS         |                 |              |
|                       |             | FED. AID PROJECT |                 |              |
| CONTRACT NO. 66294    |             |                  |                 |              |



#### GENERAL NOTES

Conduit and wiring to the underpass luminaire(s) shall be incidental to the cost of the underpass luminaire(s). This includes all appurtenances including, but not limited to; straps, clamps, hangers, fittings, attachments, hardware, etc.

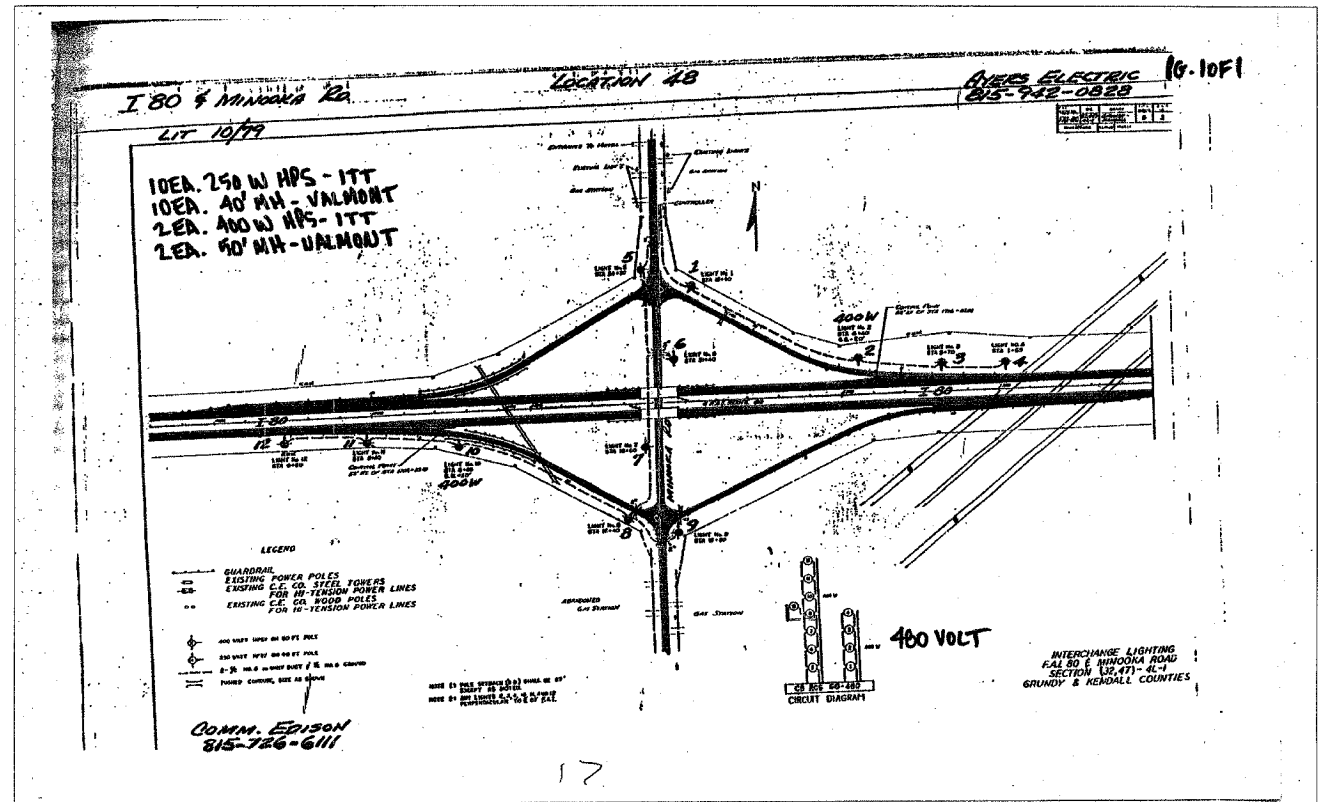
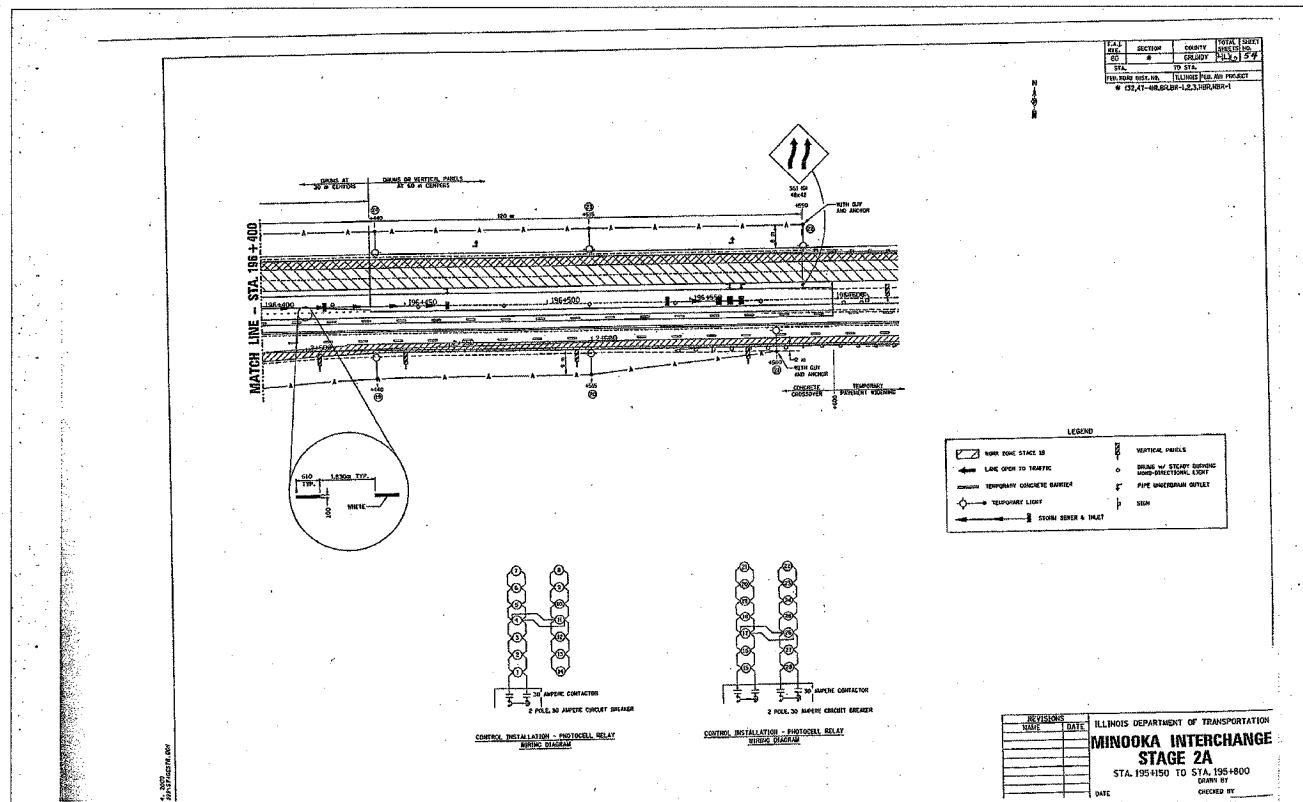
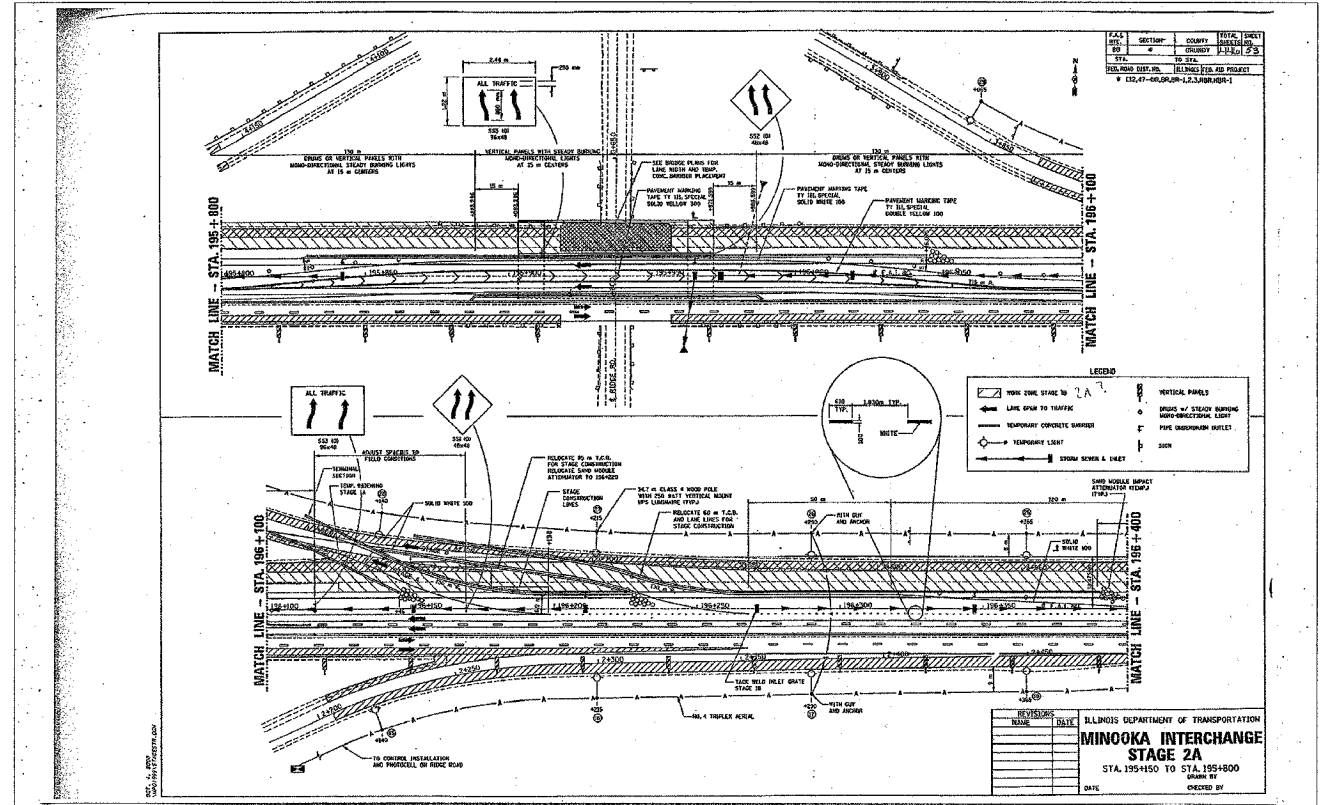
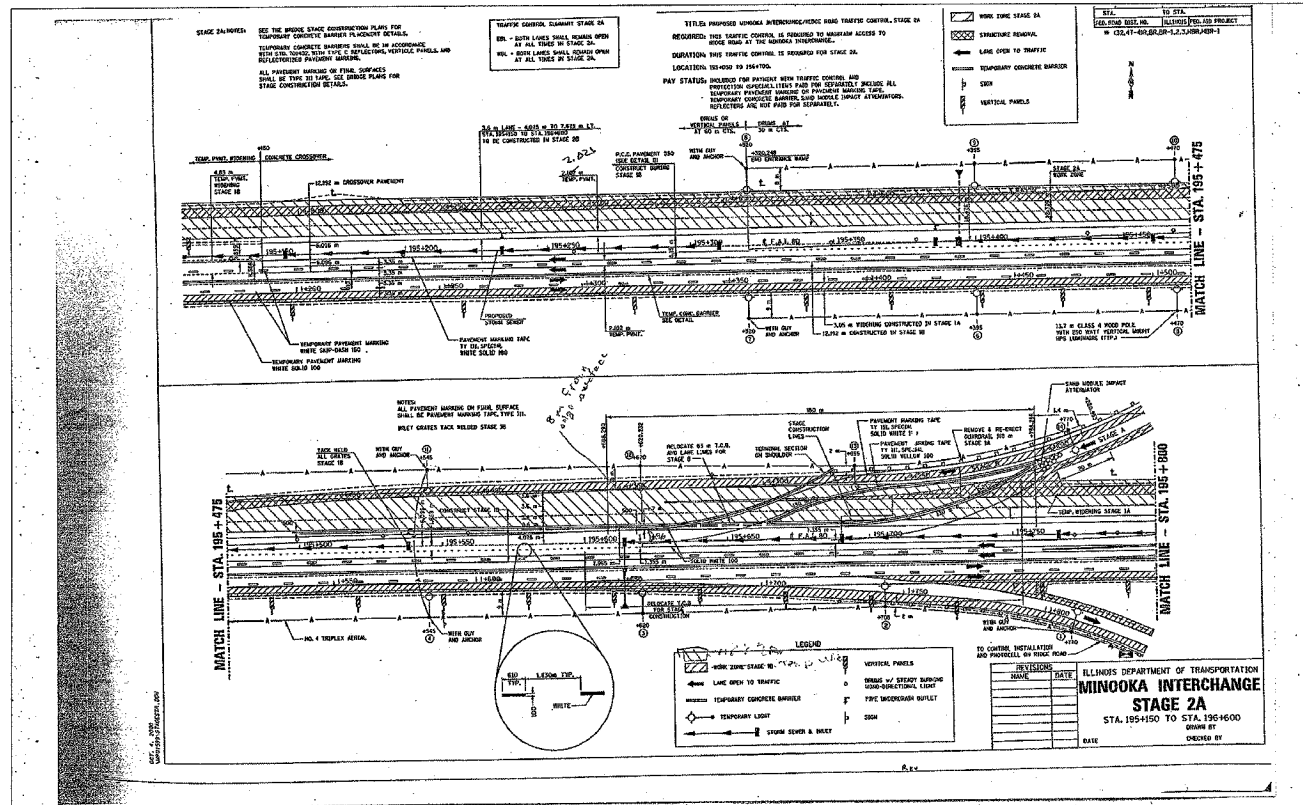
Conduit shall be rigid galvanized conduit unless noted otherwise. All hardware shall be stainless steel and all conduit appurtenances, as noted above, shall be hot dip galvanized or stainless steel.

A stainless steel junction box and flex conduit shall be installed in the conduit at any opening in the bridge deck where road salt can run down onto the conduit system.

Routing and method of attachment of the conduit on the bridge structure and across piers shall be as approved by the Engineer.

| DATE | REVISIONS        | UNDERPASS LIGHTING |
|------|------------------|--------------------|
|      | Corrected 4/3/06 |                    |
|      |                  |                    |
|      |                  |                    |
|      |                  |                    |
|      |                  |                    |

PLOT DATE = 4/10/2006  
FILE NAME = FILEL  
USER NAME = RUSERT



PLOT DATE: 4/19/2006  
FILE NAME: [Name]  
USER NAME: [Name]

TEMPORARY LIGHTING CONTRACT 66044

EXISTING INTERCHANGE LIGHTING

FOR INFORMATION ONLY

ADDED SHEET 4-11-06 MJ  
PER ADDENDUM