

| F&P NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------------|----------------------------------|---------|-----------------|--------------|
| 793 | 05-00025-00-TL 07-00025-01-WR | MADISON | 127 | 71 |
| STA. | TO STA. | | | |
| TRAFFIC SIGNAL PLANS | | | | |

CONTRACT NO. 97352

SUMMARY OF QUANTITIES

| CODE NO | ITEM | UNIT | QTY |
|----------|---|-------|-------|
| 72000100 | SIGN PANEL--TYPE 1 | SQ FT | 10 |
| 81012300 | CONDUIT IN TRENCH, 1" DIA., PVC | FOOT | 90 |
| 81012500 | CONDUIT IN TRENCH, 1 1/2" DIA., PVC | FOOT | 405 |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 56 |
| 81012700 | CONDUIT IN TRENCH, 2 1/2" DIA., PVC | FOOT | 21 |
| 81012800 | CONDUIT IN TRENCH, 3" DIA., PVC | FOOT | 10 |
| 81021340 | CONDUIT PUSHED, 2 1/2", DIA., PVC | FOOT | 104 |
| 81030100 | CONDUIT SPLICE | EACH | 2 |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 5 |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 572 |
| 81900500 | TRENCH AND BACKFILL WITH SCREENINGS AND/OR SAND | FOOT | 10 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1,184 |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 661 |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 3,158 |
| 87800415 | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 15 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 3 |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| 88200300 | TRAFFIC SIGNAL BACKPLATE, PLASTIC | EACH | 2 |
| 88500520 | INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY AND CALL CARRY-OVER, DIGITAL DESIGN | EACH | 7 |
| 88600100 | DETECTOR LOOP, TYPE 1 | FOOT | 1,601 |
| 89500100 | RELOCATE EXISTING SIGNAL HEAD | EACH | 2 |
| 89501300 | RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE | EACH | 1 |
| 89502200 | MODIFY EXISTING CONTROLLER | EACH | 1 |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 3,184 |
| 89502380 | REMOVE EXISTING HANDHOLE | EACH | 4 |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 |
| 89502800 | DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT | L SUM | 1 |

STANDARDS

720001
720016-01
805001
814001-01
814006-01
873001-01
877001-03
878001-06
880006
886001
886006

ELECTRICAL GENERAL NOTES

- PROPOSED SIGNAL HEADS SHALL HAVE 12" L.E.D. SECTIONS. ALL MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- BACKPLATES SHALL BE ABS PLASTIC.
- THE LOCATION OF THE MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE. ALL MAST ARMS AND POLES SHALL BE GALVANIZED.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(B)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE. IF A TIME SETTING IS PROGRAMMED, THEY SHALL BE RACK MOUNTED.
- CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "TRENCH AND BACKFILL FOR ELECTRICAL WORK" AND INSTALLED PER ARTICLE 815.03(D) OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- A 1/4" NYLON PULL ROPE SHALL BE FURNISHED AND INSTALLED IN ALL SIGNAL CONDUITS. THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEMS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO THEIR MAINTENANCE FACILITY LOCATED AT 9601 ST. CLAIR AVENUE, FAIRVIEW HEIGHTS.
- INSTALL DETECTOR LOOPS PRIOR TO FINAL ASPHALT SURFACE.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATION. AGENCIES KNOWN TO HAVE UNDERGROUND FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING:

GAS/ELECTRIC
AMERENIP
2600 N. CENTER ST.
MARYVILLE, IL 62062
(618)-346-1236

TELEPHONE
AT&T
203 GOETHE
COLLINSVILLE, IL 62234
(800)-244-4444

CABLE
CHARTER COMMUNICATIONS
508 NIAGARA STREET
EAST ALTON, IL 62024
(618)-779-4179

WATER
CITY OF TROY
116 EAST MARKET STREET
TROY, IL 62294
(618)-667-9924