

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	60R-2, 37R-1	MADISON	502	221
STA.	TO STA.			
EXISTING CONDITIONS:				
CONTRACT 76301				

SCHEDULE OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				YO31-1F		
72000100	SIGN PANEL - TYPE 1	SQ FT	5	5		
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2		
80300100	LOCATING UNDERGROUND CABLE	FOOT	250	250		
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1		
80802100	WOOD POLE, 35 FT., CLASS 4	EACH	1	1		
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	264	264		
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	17	17		
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	545	545		
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	134	134		
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	10	10		
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	111	111		
81018800	CONDUIT PUSHED, 3 1/2" DIA., GALVANIZED STEEL	FOOT	214	214		
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	122	122		
81400400	CONCRETE HANDHOLE	EACH	4	4		
81400600	CONCRETE DOUBLE HANDHOLE	EACH	2	2		
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	812	812		
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1364	1364		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1422	1422		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1900	1900		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	991	991		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3635	3635		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	31	31		
87502690	TRAFFIC SIGNAL POST, ALUMINUM 15 FT.	EACH	4	4		
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2	2		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2	2		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	12		
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5	3.5		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	44	44		
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	10	10		
88500100	INDUCTIVE LOOP DETECTOR	EACH	15	15		
88600100	DETECTOR LOOP, TYPE I	FOOT	1742	1742		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	5	5		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5		
X8801310	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6	6		
X8801345	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	2		
X8801350	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	2		
X8801395	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1		
X8801400	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	2		
X8801437	SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1	1		
X8810495	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4	4		

ELECTRICAL GENERAL NOTES:

1. ALL VEHICLES AND PEDESTRIAN SIGNAL HEADS SHALL HAVE 12" SECTIONS. 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.
2. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
3. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
4. BACKPLATES SHALL BE ABS PLASTIC.
5. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED AT 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.
6. THE FINAL DEPTHS OF THE CONCRETE FOUNDATIONS FOR THE MAST ARM SUPPORT POLES ARE 11 FEET DEEP.
7. THE LOCATION OF THE DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
8. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. RESIN CORE SHALL BE USED.
9. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
10. 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.
11. ALL HANDHOLES SHALL BE CAST-IN PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03 (b)). THE CAST IN PLACE LEGEND ON THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
12. LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
13. AN UNDERGROUND "CABLE MARKING TAPE" SHALL BE INSTALLED WITH ALL TRENCH AND BACKFILL FOR ELECTRICAL WORK IN ACCORDANCE WITH THE ARTICLES 815.03 (d) AND 1066.05 OF THE STANDARD SPECIFICATIONS.
14. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS EXCEPT AS FOLLOWS:

ARTICLE 888.01 SHALL BE REVISED TO READ AS FOLLOWS:
THE PEDESTRIAN PUSHBUTTONS SHALL BE MOUNTED APPROXIMATELY 30" ABOVE THE HANDICAPPED RAMP LEVEL.
15. THE PUSHBUTTON SIGN SHALL BE A R10-4a, R10-4b, 9" X 12".
16. ILLINOIS STATE LAW REQUIRES 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

* PHILLIPS PIPELINE COMPANY
* AMERITECH
* ILLINOIS POWER COMPANY
* SOUTHWESTERN ELECTRIC COOPERATIVE, INC.
* CHARTER COMMUNICATIONS, INC.
* BOND MADISON WATER COMPANY
* ILLINOIS POWER COMPANY
* TOUCH AMERICA, INC.
* CITY OF TROY

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
17. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE WORK TO BE PERFORMED ON PROJECTS BY OTHER CONTRACTORS. ALSO, THERE SHOULD BE COOPERATION OF CONSTRUCTION ACTIVITIES BETWEEN CONTRACTORS.
18. THE EXISTING CONTROLLER CABINET, COMPLETE, SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS. UPON REMOVAL, THE CONTRACTOR SHALL DELIVER SUCH EQUIPMENT TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

6/29/2004
 Wednesday, June 30, 2004 9:48:13 AM
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