F.A.U RTE.	SECTION			OUNTY		TOTAL SHEETS	SHEET NO.
9097	02-00183-00	-TL		MADIS	N	16	12
PED. ROAD DIST. NO. ILLIN				FED.	AID	PROJE	CT

CONTRACT NO. 97243

ELECTRICAL GENERAL NOTES:

- 1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12 INCH L.E.D. INDICATIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, AND BASES SHALL BE UNPAINTED ALUMINUM. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI—SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- 2. BACKPLATÉS SHALL BE ABS PLASTIC.
- 3. THE LOCATION OF 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 POLE SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLES. ALL MAST ARMS AND POLES SHALL BE GALVANIZED.
- 4. DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORT POLES PER STANDARD 878001 ARE:

NORTH SIDE 10.0 FT. SOUTH SIDE 10.0 FT.

- 5. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER, UNLESS OTHERWISE SPECIFIED. FIELD WIRES SHALL BE CONNECTED AT CONTROLLER OUTPUT TERMINALS USING ILSCO SLU-55 CONNECTORS OR EQUIVALENT.
- 6. 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.
- 7. 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: (MEMBER OF J.U.L.I.E. PHONE (800) 892-0123 ARE INDICATED BY *(CALL ONE WEEK BEFORE YOU PLAN TO DIG).

CITY OF GRANITE CITY
*ILLINOIS AMERICAN WATER CO.
*AMEREN IP
*SBC
*CHARTER COMMUNICATION, INC.
*ILLINOIS CONSOLIDATION
*AMEREN UE

NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY

- 8. 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 SPECIFICTIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 9. ANCHOR BOLTS, NUTS, AND WASHERS REQUIRED WITH TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM "FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL."
- 10. THE CONTRACTOR SHALL INSTALL FOUR (4) GROUND RODS $(3/4" \times 12 \text{ FT. LONG})$ AND #6 AWG BARE COPPER GROUND CONDUCTORS IN THE CONTROLLER FOUNDATION AS PER THE SPECIAL PROVISION, "CONCRETE FOUNDATION, TYPE D (SPECIAL)"
- 11. 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.

STANDARDS

ITEM	UNIT	TOTAL QUANTITIE
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
CONDUIT IN TRENCH, 1-1/2" DIA., PVC	FOOT	87
CONDUIT IN TRENCH, 2-1/2" DIA., PVC	FOOT	71
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	5
CONDUIT PUSHED, 1-1/2" DIA., GALVANIZED STEEL	FOOT	45
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	62
CONCRETE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	163
FULL—ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	187
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	201
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	743
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 3C	FOOT	5
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	6
CONCRETE FOUNDATION, TYPE D (SPECIAL)	FOOT	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1—FACE, 3—SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2
ADA PEDESTRIAN PUSH-BUTTON	EACH	2

SHEET NO.

Job No. 202-02-1
Date: 11/1/04
Scale: NONE
Drawn by: C.S.
Design by: K.W.
Approved by: D.B.B.
File Name: T\$202-02

REVISIONS

SHEW

rawford, Bunte, Brammeier Traffic and Transportation Engineers ouri/Glen Corbon, Illinois 44 618-656-2612

 \Box

SUMMARY OF QUANTITIES
GENERAL ELECTRICAL NOTES
MADISON AVENUE &
GRANITE CITY HIGH SCHOOL
GRANITE CITY, ILLINOIS