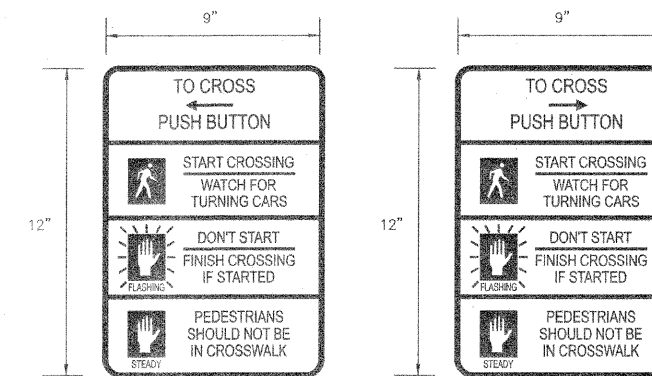


**ELECTRICAL GENERAL NOTES**

- ALL SIGNAL HEADS SHALL BE POLYCARBONATE AND SHALL HAVE 12" LENSES. MOUNTING HARDWARE SHALL BE PAINTED BLACK ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
  - BACKPLATES SHALL BE ABS PLASTIC.
  - THE LOCATION OF THE SIGNAL POSTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. IN CURBED SECTIONS, THE SIGNAL POSTS SHALL BE LOCATED A MINIMUM OF FIVE (5) FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE SIGNAL POST.
  - ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.
  - ALL PROPOSED CONDUIT SHALL BE PVC UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE PLACED AND BACKFILLED PRIOR TO CONSTRUCTION OF NEW PAVEMENT, SHOULDER AND CURB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PUSHING CONDUIT AFTER SUCH WORK HAS BEEN COMPLETED.
  - THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT. THE SLOTS SHALL BE CUT IN THE MILLED SURFACE. NO SLOTS IN THE ASPHALT SURFACE WILL BE ALLOWED.
  - DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. RESIN CORE SOLDER SHALL BE USED.
  - CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
  - ALL INDUCTION LOOP DETECTOR AMPLIFIERS SUPPLIED FOR THIS INTERSECTION SHALL BE RACK MOUNTED AND SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED.
  - ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING:  
 AMEREN IP (GAS & ELECTRIC)  
 AT&T (TELEPHONE)  
 CHARTER COMMUNICATIONS (CABLE TV)  
 CITY OF EDWARDSVILLE (WATER, SEWER & TRAFFIC SIGNALS)
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (JULIE) IN THE SPECIAL PROVISIONS. CALL (800) 892-0123 48 HOURS BEFORE PLANNING TO DIG.
  - CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED PART OF THE NEW CONDUIT INSTALLATION.
  - SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND CONSTRUCTION STAGING REQUIREMENTS.
  - THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE THEY ARE INSTALLED.
  - SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
  - WHEN CUTTING PROPOSED DETECTOR LOOPS, THE CONTRACTOR SHALL CONTROL DUST SO THAT DUST DOES NOT BECOME AIRBORNE AND BLOW ONTO PRIVATE PROPERTY.
  - THE CONTRACTOR SHALL TOUCH-UP EXISTING BLACK PAINTED SIGNAL POSTS, MAST ARMS, AND MOUNTABLE HARDWARE DAMAGED BY CONSTRUCTION OPERATIONS.

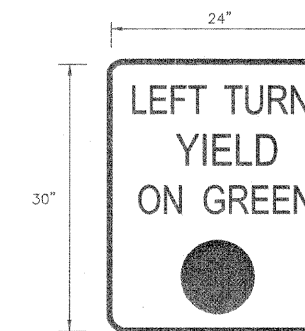
**TRAFFIC SIGNAL QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
72000100	SIGN PANEL - TYPE 1	SQ FT	10
72000105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	2
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	47
81400115	HANDHOLE TO BE ADJUSTED	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	47
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,030
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,088
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,157
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	690
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	846
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87900200	DRILL EXISTING HANDHOLE	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	2
88500100	INDUCTIVE LOOP DETECTOR	EACH	2
88600100	DETECTOR LOOP, TYPE I	FOOT	374
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,809
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
XX005431	LOCATING UNDERGROUND UTILITY	EACH	100



FURNISH & INSTALL TWO (2) EACH SIGNS

DETAIL OF SIGN PANEL - TYPE 1 (SPECIAL)  
(NOT TO SCALE)



FURNISH & INSTALL TWO (2) EACH SIGNS  
R10-12  
MOUNT SIGNS ON THE MAST ARMS, 2'-8" FROM THE CENTER OF THE SIGN TO THE CENTER OF THE 5-SECTION SIGNAL HEAD. (8" SPACING BETWEEN THE EDGE OF THE SIGN AND THE EDGE OF THE SIGNAL HEAD BACK PLATE)

DETAIL OF SIGN PANEL - TYPE 1  
(NOT TO SCALE)