## ELECTRICAL SYMBOLS

LIGHTING UNIT:
47.5 FT. M.H., 12 FT. DAVIT ARM,
310W 240V (PHASE TO NEUTRAL) HPS M-C-III
LUMINAIRE WITH 6 AMP FUSE, 9'' BREAKAWAY
TRANSFORMER BASE MOUNTED ON CONCRETE
FOUNDATION

COMBINATION TRAFFIC SIGNAL AND
LIGHTING UNIT: LUMINAIRE ARM 15 FT.
AT 45 FT. MOUNTING HEIGHT, 310 WATT
LUMINAIRE, 240V (PHASE TO NEUTRAL),
HPS M-C-III, WITH 6 AMP FUSE

TEMPORARY LIGHTING UNIT:
60 FT. WOOD POLE, 47.5 FT. M.H.,
15 FT. M.A. AND 400W, 240V (PHASE
TO PHASE) HPS MC-III LUMINAIRE

UNIT DUCT
3 #4 & 1 #6 GND XLP-TYPE USE IN 1¼'' DIA.
SCHEDULE 40 POLYETHYLENE DUCT,
UNLESS NOTED OTHERWISE

AERIAL CABLE
3-1/C NO. 2 WITH MESSENGER

LIGHTING CONTROLLER CABINET

EXISTING UTILITY POLE

GROUND ROD

UNIT DUCT INSTALLED IN CONDUIT
SLEEVE UNDER PAVEMENT

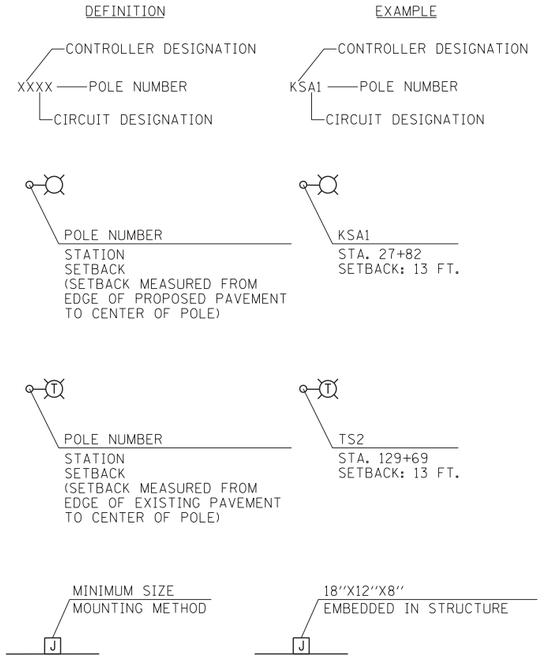
ELECTRIC UTILITY SERVICE

EXISTING LIGHTING UNIT
TO BE REMOVED AND SALVAGED

EXISTING LIGHTING CONTROLLER
CABINET TO BE REMOVED AND SALVAGED

TEMPORARY WOOD POLE
40 FT.

## CALL-OUT SAMPLES




## ABBREVIATIONS

| | |
|---|---|
| A | AMPERE |
| AC | ALTERNATING CURRENT |
| A/C | AERIAL CABLE |
| AFG | ABOVE FINISHED GRADE |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| COMED | COMMONWEALTH EDISON |
| DIA | DIAMETER |
| DP | DISTRIBUTION PANEL |
| E | EXISTING UNIT TO REMAIN |
| EOP | EDGE OF PAVEMENT |
| EPR | ETHYLENE PROPYLENE RUBBER |
| FT | FEET OR FOOT |
| FU | FUSE |
| GND | GROUND |
| HID | HIGH INTENSITY DISCHARGE |
| HPS | HIGH PRESSURE SODIUM |
| IDOT | ILLINOIS DEPARTMENT OF TRANSPORTATION |
| IN | INCH/INCHES |
| JB | JUNCTION BOX |
| KV | KILOVOLT |
| M | METER |
| MA | MAST ARM |
| MH | MOUNTING HEIGHT |
| MIN | MINIMUM |
| NO, # | NUMBER |
| PB | PUSH BUTTON |
| P | PROPOSED |
| PH | PHASE |
| PNL | PANEL |
| PVC | POLYVINYL CHLORIDE |
| R | EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNLESS NOTED OTHERWISE) |
| RECP | RECEPTACLE |
| RGSC | RIGID GALVANIZED STEEL CONDUIT |
| SS | STAINLESS STEEL |
| STA | STATION |
| TC | TRAY CABLE |
| TYP | TYPICAL |
| UD | UNIT DUCT |
| UNO | UNLESS NOTED OTHERWISE |
| URSC | UNDERGROUND RIGID STEEL CONDUIT |
| V | VOLT |
| VA | VOLT-AMPERE |
| W | WATT |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

## GENERAL NOTES

1. THE EXISTING ROADWAY LIGHTING SYSTEM, WHICH INCLUDES TEMPORARY LIGHTING, SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY THE ENGINEER.
2. THE LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND ORDERING MATERIALS.
4. THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
5. CONDUITS, UNIT DUCTS, HANDHOLES, JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMATICALLY. THE CONTRACTOR SHALL MARK THE FINAL LOCATION OF ALL PROPOSED EQUIPMENT IN THE FIELD FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
6. CONDUITS, UNIT DUCTS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARD FOUNDATIONS AND APPURTENANCES SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH DRAINS AND ALL OTHER UTILITIES, BOTH UNDERGROUND AND ABOVE GROUND.
7. THE CABLE INSTALLATION FROM THE LIGHTING CONTROL CABINET TO THE LIGHT STANDARDS SHALL BE CONTINUOUS WITHOUT UNDERGROUND SPLICES. SPLICING OF CABLES IS PERMITTED ONLY IN THE HANDHOLES OF THE LIGHT POLES AND IN ABOVE GROUND JUNCTION BOXES.
8. LOCATIONS OF THE CONDUIT SLEEVE CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED WITH THE ENGINEER'S APPROVAL TO MEET THE MINIMUM CLEARANCE REQUIREMENTS AND TO AVOID CONFLICTS.
9. CONDUIT SLEEVES ROUTED UNDER PAVEMENT SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE SHOULDER, CURB, AND/OR GUARD RAIL AND SHALL BE INSTALLED A MINIMUM OF 45 INCHES BELOW FINISHED GRADE TO AVOID CONFLICTS WITH THE UNDER DRAINS. THE SLEEVES SHALL BE INSTALLED DEEPER IF REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES AND DRAINAGE STRUCTURES AT NO ADDITIONAL COST TO IDOT.
10. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.
11. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX, PULL BOX, LIGHT POLE AND CONTROLLER CABINET THROUGH WHICH THE CONDUCTORS ARE ROUTED. JUNCTION BOXES AND PULL BOXES SHALL BE EQUIPPED WITH GROUND LUGS FOR TERMINATION OF THE GROUND WIRE . THE GROUND LUG INSTALLATION SHALL NOT DEGRADE THE JUNCTION BOX RATING.
12. PROPOSED LIGHT POLES SHALL BE INSTALLED WITH A BREAKAWAY DEVICE.
13. THE EXISTING LIGHT POLES, CONTROLLER AND OTHER EQUIPMENT SHALL BE SALVAGED TO IDOT DISTRICT 1.

RL-01

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| FILE NAME = $FILES$ | USER NAME = $USER$ | DESIGNED - WDS | REVISED - 4/25/2014 WDS |
| | | DRAWN - HA | REVISED - |
| | PLOT SCALE = $SCALE$ | CHECKED - WDS | REVISED - |
| $MODELNAME$ | PLOT DATE = $DATE$ | DATE - 3/28/2014 | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES**
**U.S. RTE 20 (SOUTH JUNCTION)**

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 345 | 106-S-N-2 | KANE | 147 | 92 |
| | | CONTRACT NO. 60T09 | | |
| | | ILLINOIS FED. AID PROJECT | | |