






















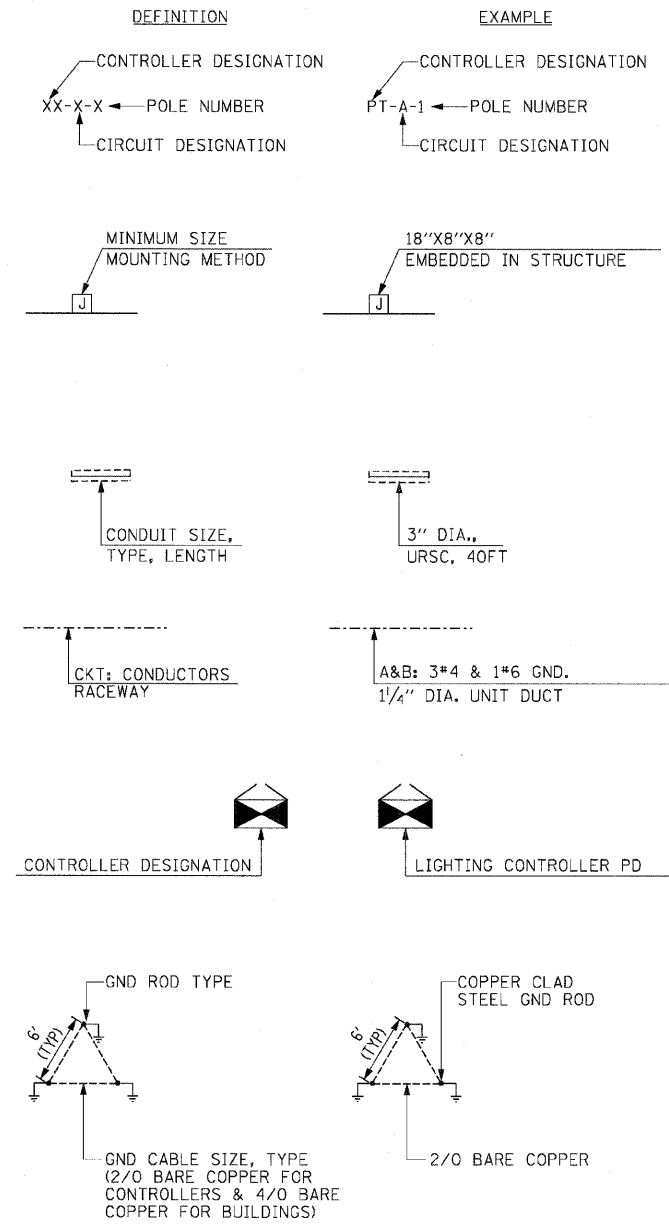
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE, KANE	647	415
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62410

ELECTRICAL SYMBOLS

-  LIGHTING UNIT:
47.5 FT. M.H., 15 FT. M.A.,
310W HPS M-C-III LUMINAIRE, UNO, (240V)
9" BREAKAWAY TRANSFORMER BASE
-  LIGHTING UNIT:
20 FT. M.H., 6 FT. M.A.,
150W HPS M-C-III LUMINAIRE, (240V)
9" BREAKAWAY TRANSFORMER BASE
-  PARAPET WALL LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.,
310W HPS M-C-III LUMINAIRE, (240V)
-  TWIN LIGHTING UNIT:
20 FT. M.H., TWIN 6 FT. M.A.,
150W HPS M-C-III LUMINAIRE, (240V)
9" BREAKAWAY TRANSFORMER BASE
-  COMBINATION TRAFFIC SIGNAL AND
LUMINAIRE LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.,
400W HPS M-C-III LUMINAIRE, (240V)
-  COMBINATION TRAFFIC SIGNAL AND
LUMINAIRE LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.,
310W HPS M-C-III LUMINAIRE, (240V)
-  AVIATION OBSTRUCTION WARNING LUMINAIRE
(6W LED, 240V)
-  EXISTING ORNAMENTAL LIGHTING UNIT
TO REMAIN
-  LOCATION OF REINSTALLED ORNAMENTAL
LIGHTING UNIT
-  EXISTING ORNAMENTAL LIGHTING UNIT
TO BE REMOVED AND RELOCATED
-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO BE REMOVED
(NOTE 14)
-  EXISTING TWIN LIGHTING UNIT TO REMAIN
-  EXISTING TWIN LIGHTING UNIT
TO BE REMOVED (NOTE 14)
-  UNIT DUCT
3 #4 XLP & 1 #6 XLP GND IN 1 1/4" DIA.
SCHEDULE 40 POLYETHYLENE DUCT
-  CONDUIT EMBEDDED IN STRUCTURE
2" PVC CONDUIT, CONDUCTORS AS INDICATED
-  UNIT DUCT INSTALLED IN UNDERGROUND
RIGID STEEL CONDUIT
-  EXPANSION FITTING
-  LIGHTING CONTROLLER CABINET
(DOOR SIDE AS INDICATED)
-  EXISTING LIGHTING CONTROLLER
CABINET "AC-2" TO BE REMOVED
AND RELOCATED (NOTE 14)
-  EXISTING UTILITY POLE
- GROUND ROD
- UTILITY SERVICE CONNECTION
POLE MOUNTED
- AERIAL CABLE
- EXISTING ELECTRIC UTILITY MANHOLE/HANDHOLE TO REMAIN
- PVC CONDUIT ENCASED IN REINFORCED
CONCRETE DUCTBANK IN TRENCH

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 LIGHTING UNIT TO REMAIN
- EOP EDGE OF PAVEMENT
- 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
- MC MULTI-CONDUCTOR CABLE (TYPE TC)
- MH MOUNTING HEIGHT
- MIN MINIMUM
- NO, # NUMBER
- PB PUSH BUTTON
- P POLE
- PH PHASE
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- R EXISTING LIGHTING UNIT TO BE REMOVED (OWNER SALVAGED UNLESS NOTED OTHERWISE)
- RECP RECEPTACLE
- RGSC RIGID GALVANIZED STEEL CONDUIT
- SS STAINLESS STEEL
- STA STATION
- 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
- XLP CROSS LINKED POLYETHYLENE

GENERAL NOTES

1. PRIOR TO THE INSTALLATION OF NEW UNIT DUCTS, CONDUITS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARD FOUNDATIONS AND APPURTENANCES, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING LIGHTING CONDUITS, CABLE AND UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL VERIFY ALL OF THE DATA SHOWN ON THE CONTRACT PLANS WHICH WOULD AFFECT HIS/HER WORK UNDER THIS CONTRACT.
3. ALL NEW UNIT DUCTS, CONDUITS, HANDHOLES, JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL BE APPROVED BY THE ENGINEER.
4. CONDUITS, UNIT DUCT, HANDHOLES, JUNCTION BOXES, LIGHT STANDARD FOUNDATION AND APPURTENANCES SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH DRAINS AND ALL OTHER UTILITIES, BOTH UNDERGROUND AND ABOVE GROUND.
5. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
6. 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 BASE OF THE LIGHT STANDARDS AND IN ABOVE GROUND JUNCTION BOXES.
7. NOT USED
8. ALL PITS USED FOR BORING AND PULLING CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHALL BE LOCATED FIVE (5) FEET (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET THE MINIMUM CLEARANCE REQUIREMENTS. THE PITS SHALL BE ADEQUATELY GUARDED TO PROTECT THE MOTORIST. THE CONTRACTOR SHALL SUBMIT PLANS OF EACH PIT TO THE ENGINEER PRIOR TO EXCAVATING EACH PIT. THE PIT PLANS SHALL SHOW THE PIT SIZE, PIT LOCATION, PROTECTION TO BE INSTALLED, AND MAINTENANCE OF TRAFFIC AT PIT SITE.
9. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE LUMINAIRE SUPPLIER RECOMMENDATIONS. THE CONTRACTOR SHALL COORDINATE THE LAMP TYPE, VOLTAGE, AND WATTAGE WITH THE LUMINAIRE SUPPLIER.
10. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.
11. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED WITH THE LUMINAIRES INSTALLED, CONNECTED, AND TESTED.
12. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX AND PULL BOX THAT THE CONDUCTORS PASS THROUGH. JUNCTION BOXES AND PULL BOXES SHALL BE EQUIPPED WITH GROUND LUGS FOR THE GROUND WIRE TERMINATION. THE GROUND LUG INSTALLATION SHALL NOT DEGRADE THE JUNCTION BOX RATING.
13. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
14. CONTRACTOR SHALL DELIVER THE EXISTING LIGHTING UNITS TO BE REMOVED AND THE EXISTING LIGHTING CONTROLLERS TO BE REMOVED TO THE CITY OF ST. CHARLES.
15. THE CONTRACTOR SHALL CONTACT THE CITY OF ST. CHARLES ELECTRICAL PERSONEL-MR. TOM BRUHL AT 630-377-4401 TO SCHEDULE THE WORK TO CORE DRILL THE EXISTING MANHOLE AND INSTALL THE ELECTRIC UTILITY DUCT BANK SHOWN ON SHEET E-04.

E-01



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

**ELECTRICAL SYMBOLS,
 CALL-OUT SAMPLES, ABBREVIATIONS,
 AND GENERAL NOTES**

SCALE: NONE
 DATE: MAY 13, 2011

DRAWN BY: HR
 CHECKED BY: JPC