

## INDEX OF DRAWINGS

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




## GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK MUST CONFORM TO THE LATEST NATIONAL, STATE, AND LOCAL CODES.
- CONTRACTOR WILL FIELD VERIFY EXACT LOCATIONS, QUANTITIES, AND TYPE OF UTILITIES IN AREAS TO BE EXCAVATED PRIOR TO COMMENCEMENT OF ANY WORK AND WILL HAND EXCAVATE AS REQUIRED IN ORDER TO NOT INTERRUPT ANY EXISTING SERVICES. IF IN PERFORMING WORK DAMAGE TO EXISTING UTILITIES (PUBLIC OR PRIVATE) OCCURS, CONTRACTOR WILL NOTIFY UTILITY IMMEDIATELY AND PAY ANY COST INCURRED FOR REPAIR OR REPLACEMENT OF SUCH DAMAGE.
- ELECTRICAL EQUIPMENT, RACEWAY, ETC. ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR WILL INSTALL ELECTRICAL EQUIPMENT, RACEWAYS, ETC. WHERE DIRECTED BY THE ENGINEER IN ORDER TO BEST SUIT JOB CONDITIONS.
- CONDUIT MUST BE PUSHED UNDER ROADWAYS, DRIVEWAYS AND SIDEWALKS AS DIRECTED BY THE ENGINEER. CONDUIT MUST BE PUSHED PAST TREES IF THE ENGINEER DETERMINES THAT TRENCHING MAY HARM THE TREES. ALL OTHER CONDUIT MAY BE INSTALLED BY ANY METHOD APPROVED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE CONTRACT.
- THE CONTRACTOR SHALL CONTACT THE CITY OF ST. CHARLES PUBLIC WORKS AND ELECTRICAL UTILITY DEPARTMENTS AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ANY WORK.
- ALL POLE BASES SHALL BE FRANGIBLE WITH AASHTO AND FHWA BREAKAWAY COUPLINGS WITH ALUMINUM SKIRTS. POLE BASE REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 1070.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ALL ELECTRICAL WORK PERFORMED AND INSTALLED ON STATE RIGHT-OF-WAY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 1, GENERAL GUIDELINES FOR LIGHTING DESIGN.
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRIC SERVICE

## CONSTRUCTION NOTES

- ALL UNDERGROUND CONDUIT SHALL BE A MINIMUM 30 INCHES BELOW GRADE TO TOP OF DUCT.
- ALL CONDUIT CROSSING DRIVEWAYS OR ROADWAYS WILL BE RIGID GALVANIZED STEEL. ALL OTHER CONDUIT SHALL BE EPC-40 PVC.
- THE GROUND CONDUCTOR WILL HAVE NO SPLICE OR KINKS BELOW GRADE, IT SHALL BE SOLIDLY CONNECTED TO THE GROUNDING LUG OF EACH POLE AND TO THE GROUND ROD AT THE SERVICE INSTALLATION.
- ALL GROUND CONDUCTOR CONNECTIONS TO GROUND RODS SHALL BE MADE WITH AN EXOTHERMIC WELD.
- ALL POLES, AESTHETIC LIGHTING UNITS, AND THE STREET LIGHT CONTROLLERS WILL BE CONNECTED TO A CONTINUOUS GROUND CONSISTING OF A GREEN INSULATED ELECTRICAL CONDUCTOR 600V. XLP (SIZE AS INDICATED ON THE PLANS). THIS CONDUCTOR WILL BE PLACED INSIDE THE CONDUIT DUCT ALONG WITH THE INSULATED CABLES.
- SUFFICIENT LENGTH OF ELECTRICAL CONDUCTOR WILL BE COILED IN LIGHT STANDARDS TO PROVIDED ADEQUATE SLACK SO THAT ELECTRICAL CONDUCTOR MAY BE PULLED OUT 18" FOR INSPECTION. SAID SLACK WILL BE NEATLY COILED AND PLACED IN THE LIGHT STANDARD.
- ALL CIRCUITS WILL BE 2-1/C #6 AND 1-1/C #8 GROUND (GREEN) INSULATED IN 2" PVC CONDUIT, UNLESS OTHERWISE NOTED.
- ALL POLE STANDARD STATIONS AND OFFSETS SHOWN ARE FROM THE ROADWAY CENTER LINES.
- ALL OF THE LUMINAIRES FOR THE PROPOSED LIGHTING SHALL BE INSTALLED AT A MOUNTING HEIGHT OF 47'-6".
- ALL LIGHT POLES SHALL HAVE A MINIMUM SET BACK OF 3 FT BEHIND THE FRONT FACE OF BARRIER CURB AND 13 FT BEHIND THE EDGE OF PAVEMENT WITHOUT BARRIER CURB.
- ALL LUMINAIRES ARE 250 WATT, 240 VOLT, M-C-III, HIGH PRESSURE SODIUM UNLESS OTHERWISE NOTED ON THE PLANS.

## LEGEND

|   |   |
|---|---|
|  | UTILITY TRANSFORMER, PAD MOUNTED, 120/240V SINGLE PHASE   |
|  | LIGHTING CONTROLLER, BASE MOUNTED, SINGLE DOOR, 120/240 VOLT, 1-PHASE, 100 AMP  |
|  | LIGHT POLE, ALUMINUM, 47.5 FT MOUNTING HEIGHT, WITH 15 FT DAVIT ARM WITH 250 WATT, 240VOLT, M-C-III, HPS LUMINAIRE. FOUNDATION PER IDOT HIGHWAY STANDARD 836001-01. |
|  | 2-1/C, NO. 6 W/ 1-1/C NO. 8 GROUND (GREEN) PULLED IN CONDUIT  |
|  | 3-1/C, NO. 6 W/ 1-1/C NO. 8 GROUND (GREEN) PULLED IN CONDUIT  |
|  | 4-1/C, NO. 6 W/ 1-1/C NO. 8 GROUND (GREEN) PULLED IN CONDUIT  |
|  | GROUND ROD, 5/8 INCH DIAMETER X 10' LONG  |

## IDOT DISTRICT I DETAILS

|        |   |
|--------|---|
| BE-215 | LIGHTING CONTROLLER SINGLE DOOR   |
| BE-220 | ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT   |
| BE-301 | LIGHT POLE FOUNDATION, CONCRETE, >=35 FT. M.H. (15" B.C.)   |
| BE-410 | LIGHT POLE, ALUMINUM, DAVIT TYPE, 47.5 FT. M.H.   |
| BE-701 | LUMINAIRE SAFETY CABLE ASSEMBLY   |
| BE-702 | MISCELLANEOUS DETAILS, SHEET A - CABLE SPLICE, POLE WIRING, TRENCH DETAIL   |
| BE-703 | MISCELLANEOUS DETAILS, SHEET B - J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING |



SHEET L-1

PLOT SCALE: 1:1  
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|                                |                   |           |
|--------------------------------|-------------------|-----------|
| FILE NAME =                    | DESIGNED - BC     | REVISED - |
| ...prpln-ABC-sht-eleegnote.dgn | DRAWN - BC        | REVISED - |
| USER NAME = gthiesse           | CHECKED - MPM     | REVISED - |
| PLOT DATE = 12/8/2011          | DATE - 10/23/2011 | REVISED - |



CITY OF ST. CHARLES

INDEX, GENERAL ELECTRICAL  
AND CONSTRUCTION NOTES

SCALE: SHEET NO. 1 OF 10 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO.          |
|---------------------------|----------------|--------|--------------|--------------------|
|                           | 04-00092-00-BR | KANE   | 440          | 209                |
|                           |                |        |              | CONTRACT NO. 63650 |
| ILLINOIS FED. AID PROJECT |                |        |              |                    |