

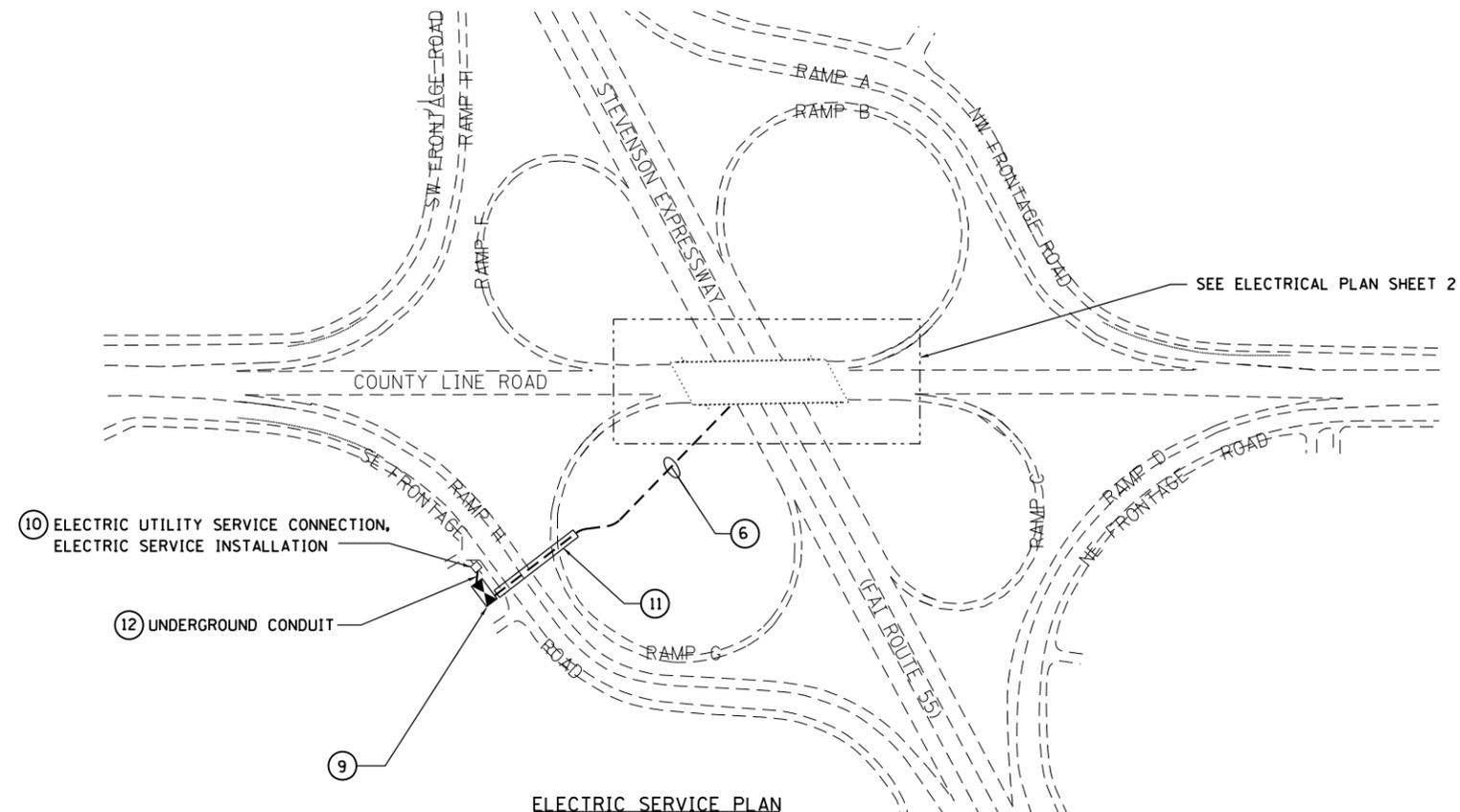
GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST NEC AND IES CODES AND STANDARDS AND THE IDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL CONDITIONS.
2. UNIT DUCT, CONDUITS, JUNCTION BOXES, AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.
4. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC-COATED RIGID GALVANIZED STEEL.
5. SPLICING OF CONDUCTORS WILL ONLY BE ALLOWED IN THE LUMINAIRES OR IN JUNCTION BOXES. SPLICES IN JUNCTION BOXES SHALL BE IN ACCORDANCE WITH THE TYPICAL SPLICE DETAIL SHOWN ON STANDARD DRAWING BE-702.
6. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS AND UNIT DUCTS WITH OTHER WORK OCCURRING AT THE BRIDGE. SPECIFICALLY, THE BRIDGE IS SCHEDULED FOR ABUTMENT AND DECK REPLACEMENT AND IDOT WILL BE REPLACING THE UNDERPASS LIGHTING AND CONDUITS. OTHER EXISTING CONDUITS ON THE BRIDGE ARE TO REMAIN.
7. UNDERGROUND UNIT DUCTS AND CONDUITS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES BELOW FINISHED GRADE AS SHOWN ON STANDARD DRAWING BE-702. IT MAY BE NECESSARY TO INCREASE THE DEPTH TO AVOID CONFLICTS OR PROPOSED LANDSCAPING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE FINISHED GRADE ELEVATIONS AND AVOIDING OBSTACLES. INCREASING THE DEPTH OF UNIT DUCTS AND CONDUIT WILL BE CONSIDERED INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.
8. THE UNIT DUCT AND CONDUIT QUANTITIES INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLIANCE WITH THE SPECIFICATIONS.
9. LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS DIRECTED TOWARD THE OBJECTS BEING ILLUMINATED AND NOT TOWARD ONCOMING TRAFFIC. IT MAY BE NECESSARY TO MAKE NIGHT-TIME OPTICAL ADJUSTMENTS TO THE FIXTURES. THIS WORK IS CONSIDERED INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.
10. ALL DECORATIVE ENHANCEMENT LIGHTING FURNISHED AND MAINTAINED BY THE VILLAGE OF BURR RIDGE.

SCHEDULE OF ELECTRICAL QUANTITIES

PAY ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY TOTAL
• 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
• 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
• 81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	184
• 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	36
• 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	564
• 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	100
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	10
81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1,878
• 81603047	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	800
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,380
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	308
• 82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1

• SEE SPECIAL PROVISION



ELECTRIC SERVICE PLAN



KEY NOTES:

- ⑥ 3-1/C NO. 6 AND 1/C NO. 6 GND. IN 1 1/4" DIA. UNIT DUCT.
- ⑨ SEE SPECIAL PROVISIONS AND DRAWING BE-215, "LIGHTING CONTROLLER, SINGLE DOOR".
- ⑩ SEE SPECIAL PROVISIONS AND DRAWING BE-220, "ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT".
- ⑪ CONDUIT PUSHED, 3" DIA. GALVANIZED STEEL BENEATH RAMPS AND FRONTAGE ROAD. SEE SPECIAL PROVISIONS.
- ⑫ 3-1/C NO. 2 AND 1/C NO. 2 GND. IN 2 1/2" DIA. RGC CONDUIT.

LEGEND:

- X LIGHTING UNIT COMPLETE (X=CIRCUIT DESIGNATION)
- Ⓐ LIGHT FIXTURE ASSEMBLY-TYPE A (5' COLUMN WASHLIGHT)
- Ⓑ LIGHT FIXTURE ASSEMBLY-TYPE B (3' COLUMN WASHLIGHT)
- Ⓒ LIGHT FIXTURE ASSEMBLY-TYPE C (WALL UPLIGHT)
- Ⓓ BRIDGE PANEL WASHLIGHT (SEE ENHANCEMENT DETAILS SHEET)
- Ⓔ ILLUMINATED SIGN (SPECIAL) (SEE ENHANCEMENT DETAILS SHEET)
- Ⓜ LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP.
- Ⓝ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x10"x6"
- E— CONDUIT ATTACHED TO STRUCTURE
- - - UNDERGROUND UNIT DUCT
- (X) KEY NOTE

LOAD TABLE		
CIRCUIT	RED PHASE LOAD (AMPS)	BLACK PHASE LOAD (AMPS)
A	0	3.8
B	0	5.0
C	4.3	0
D	5.5	0
TOTALS	9.8	8.8

INDEX OF IDOT D-1 STANDARDS

STD. NO.	TITLE:
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT.
BE-215	LIGHTING CONTROLLER, SINGLE DOOR
BE-602	ELECTRIC CONNECTION TO SIGN STRUCTURE, BRIDGE TYPE
BE-702	MISC. ELECTRICAL DETAILS, SHEET A
BE-902	PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

FILE NAME = S:\JOL\36800-36593\3661\001\Micro\PI60K77-shr-elect-details.dgn



USER NAME = dennisw
 DESIGNED - MAG
 DRAWN - DJW
 PLOT SCALE = 40.0000' / in.
 CHECKED - DWG
 PLOT DATE = 1/24/2013
 DATE - 6/1/12

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ELECTRICAL PLAN (3 OF 3)

SCALE: AS SHOWN SHEET NO. X OF X SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	22-1HB-R	COOK/DUPAGE	161	77

CONTRACT NO. 60K77
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT