

### LIGHTING GENERAL NOTES

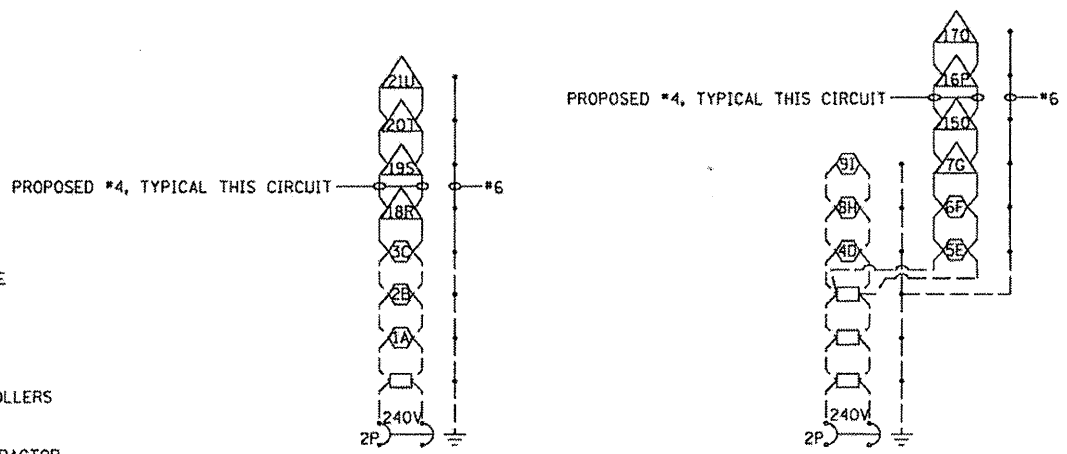
- 1.) ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
- 2.) CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- 3.) THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE "UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA POLYETHYLENE" PAY ITEM.
- 4.) ALL PROPOSED LIGHT POLES TO BE INSTALLED AT A MINIMUM OF 15 FEET BEHIND THE EDGE OF PAVEMENT. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE INCREASED IF NECESSARY AS DIRECTED BY THE ENGINEER.
- 5.) NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
- 6.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 7.) ALL ATTACHED CONDUIT, JUNCTION BOXES, CONDUIT HANGERS, SUPPORTS AND APPURTENANCES SHALL BE REMOVED FROM THE BRIDGE. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BRIDGE REMOVAL, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
- 8.) ALL EXISTING LIGHTING UNITS, EXCEPT 7G AND B15 AS SHOWN ON THE PLANS, SHALL REMAIN FULLY OPERATIONAL DURING STAGE 1 CONSTRUCTION. ALL LIGHTING UNITS ON CIRCUIT 1-2 SHALL BE INSTALLED AND MADE FULLY OPERATIONAL PRIOR TO STAGE 2 CONSTRUCTION.
- 9.) THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF ALL EXISTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS IN THE LIGHTING CONTROLLERS LOCATED AT STA. 327+70 AND STA. 349+00 NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION REQUIREMENTS OF ARTICLE 801.13 AT THE CONTRACTOR'S EXPENSE.
- 10.) THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING PORTION OF THE CIRCUIT FED FROM THE EXISTING CONTROLLER AT STA. 349+00 PRIOR TO CONNECTING THE NEW FACILITIES TO THIS CIRCUIT. WRITTEN RESULTS SHALL BE PROVIDED TO THE ENGINEER.
- 11.) AFTER THE PROPOSED CIRCUITS ARE FULLY INSTALLED THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT COMPLY WITH ARTICLE 801.13, THE CONTRACTOR SHALL THEN TEST ONLY THE PORTIONS OF THE CIRCUIT WHICH ARE NEW. ANY WORK NECESSARY TO BRING THE CIRCUITS INTO COMPLIANCE SHALL BE AT THE CONTRACTOR'S OWN EXPENSE AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
- 12.) THE CONTRACTOR SHALL PLACE A COPY OF REVISED AS-BUILT PLANS INSIDE THE EXISTING LIGHTING CONTROLLERS LOCATED AT STA. 327+70 AND STA. 349+00.
- 13.) THE LOCATIONS OF ALL EXISTING LIGHTING FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS.
- 14.) PROPOSED LIGHT POLE FOUNDATION SHALL BE

*installed plumb and flush with the existing grade and shall meet the height requirements of Article 836.03 of the Standard Specifications. After unit duct is installed, foundations shall be filled with fine aggregate according to Article 836.03. Washers used to install the pole shall be large enough to fully cover the slotted holes in the pole base plate.*

15.) *Underground conduit, Coilable Nonmetallic Conduit, 2 1/2" Dia. shall be Schedule 80 as noted in the plans.*

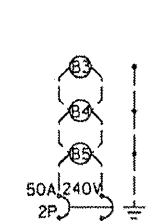
LIGHTING PLAN QUANTITIES			
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,025
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
81300630	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 12" X 6"	EACH	1
81603030	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,102
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1,025
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2,050
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8
83002200	LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. DAVIT ARM	EACH	6
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	2
83500355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6"	EACH	2
87800630	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	8
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	5
84200804	REMOVAL OF POLE FOUNDATION	EACH	3

*Underground Conduit, Coilable Nonmetallic Conduit, 2 1/2" Dia. Foot 182*

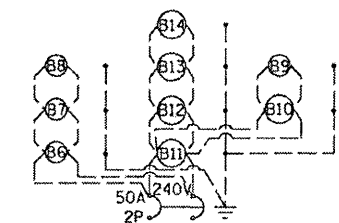


LIGHTING CKT 1-1  
EXISTING LIGHTING CONTROLLER  
LOCATED AT IL 13 AND IL 127

LIGHTING CKT 1-2  
EXISTING LIGHTING CONTROLLER  
LOCATED AT IL 13 AND IL 127



LIGHTING CKT 2-1  
EXISTING LIGHTING CONTROLLER  
NORTH SIDE OF IL 13, EAST OF THE BRIDGE



LIGHTING CKT 2-2  
EXISTING LIGHTING CONTROLLER  
NORTH SIDE OF IL 13, EAST OF THE BRIDGE

NOTES:

- 1.) ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.
- 2.) EXISTING POLE NUMBERS ARE BASED ON THE AS-BUILT PLANS.
- 3.) CONTRACTOR SHALL VERIFY THE RATING OF ALL BRANCH CIRCUIT BREAKERS IN THE EXISTING CONTROLLER LOCATED AT STA. 349+00. LARGER BREAKERS SHALL BE FURNISHED AND INSTALLED IF NEEDED ACCORDING TO NEC REQUIREMENTS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04.

### LIGHTING CIRCUIT LEGEND

- EXISTING ELECTRIC CABLE
- EXISTING HANDHOLE
- EXISTING 250W HPS LUMINAIRE
- EXISTING 700W MV LUMINAIRE
- △ PROPOSED 250W HPS LUMINAIRE

### LIGHTING CIRCUITS

FILE NAME =	USER NAME = default	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING PLANS GENERAL NOTES, QUANTITIES, AND CIRCUIT DIAGRAMS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLT SCALE = 1/2" = 100'	PLT DATE = 1/25/2012	DRAWN -	REVISED -			331	(12-118-1)	JACKSON	200	44	
		CHECKED -	REVISED -			CONTRACT NO. 78056					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					