

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2122-B	COOK	75	19
STA. -		TO STA. -		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60366				

ELECTRICAL NOTES

PART 1: GENERAL

A. DESCRIPTION

PROVIDE ALL REQUIREMENTS AND CRITERIA FOR SAFETY AND RELIABILITY TO FURNISH AND INSTALL COMPLETE OPERATING ELECTRICAL SYSTEM, INCLUDING MATERIALS, LABOR, NECESSARY EQUIPMENT AS HEREIN SPECIFIED. COMPLY WITH IDOT, NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE CODES AND STANDARDS.





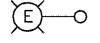
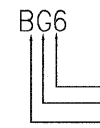
B. ELECTRICAL WORK

- CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE ELECTRICAL/SITE LIGHTING SYSTEM WITH ALL LUMINARIES, FOUNDATION, JUNCTION BOXES, TEMPORARY LIGHTING, CONDUITS, HANGERS, SUPPORTS, DEVICES, WIRING, ETC., REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS SET FORTH IN THE LOCAL GOVERNING CODE. THE WORK SHALL ALSO MEET THE LAWS AND ORDINANCE REQUIRED BY THOSE AGENCIES HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS. PRIOR TO SUBMITTING THE PROPOSAL, INCLUDE ANY RELOCATION AND/OR ALTERNATIONS TO THE NEW ELECTRICAL SYSTEM, COMPONENTS OR EQUIPMENT REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED TO PERFORM HIS WORK. PREPARE AND SUBMIT TO THE AUTHORITIES ANY AND ALL DATA, DRAWING AND DETAILS REQUIRED FOR APPROVAL BEFORE COMMENCING THE INSTALLATION.
- CONTRACTOR SHALL COORDINATE WORK WITH ALL TRADES AND AVOID CONFLICTS AND DELAYS.
- NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE NEW WORK. LACK OF NOTIFICATION SHALL INDICATE THAT NO DISCREPANCIES OR CONFLICTS EXISTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INCURRED BY HIM IN ANY AREA OF THE PROJECT SUCH AS PAVEMENT, DRIVEWAYS, AND SIDEWALKS AND SHALL RESTORE THEM TO THEIR ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER. LANDSCAPED AREAS SHALL BE RESTORED AND DAMAGED PLANT MATERIALS REPLACED TO THE SATISFACTION OF THE ENGINEER.
- MAINTENANCE OF EXISTING LIGHTING SYSTEM PAY ITEM SHALL INCLUDE PROTECTION AND MAINTENANCE OF THE EXISTING UNDERPASS LIGHTING.
- REFER TO STRUCTURAL PLANS FOR DETAILS ON ATTACHING NEW LIGHTING POLES. COORDINATE CONDUIT PENETRATION AND PROVIDE ALL ASSOCIATED ACCESSORIES FOR COMPLETE FUNCTIONAL INSTALLATION.

C. SEQUENCE OF OPERATION

IN ORDER TO MAINTAIN LIGHTING AT THE BRIDGE AT ALL TIME, THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF OPERATION:
 INSTALL ALL WIRING AND JUNCTION BOXES TO TEMPORARY FIXTURES LOCATION.
 REMOVE EXISTING UNDERPASS FIXTURES.
 INSTALL NEW UNDERPASS LIGHTING
 REMOVE TEMPORARY LIGHTING AND WIRING
 TEST THE SYSTEM.

LEGEND

- RIGID GALVANIZED STEEL CONDUIT, PVC COATED
- UNIT DUCT, 3'-0" BELOW GRADE
- A/C --- TEMPORARY AERIAL CABLE
3-1/C NO. 2, ALUMINUM,
WITH MESSENGER WIRE
-  EXISTING UNDERPASS LUMINAIRE
TO BE REMOVED
-  TEMPORARY UNDERPASS LUMINAIRE, 70W HPS,
WALL MOUNTED
-  UNDERPASS LIGHTING LUMINAIRE, 70W HPS,
CIRCUIT NUMBER AS NOTED
-  JUNCTION BOX ATTACHED TO STRUCTURE
-  EXISTING LIGHTING UNIT AND POLE TO REMAIN
-  BG6
LIGHTING UNIT NUMBER
CIRCUIT NAME
LIGHTING CONTROLLER NAME

SCHEDULE OF QUANTITIES			
FULL DESCRIPTION	UNIT	TOTAL QUANTITY	
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	40	
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	50	
CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	65	
1" DIA., PVC COATED, GALVANIZED STEEL, CONDUIT ATTACHED TO STRUCTURE	FOOT	240	
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	395	
CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., PVC	FOOT	20	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	4	
UNIT DUCT, 600V, 3-1/C NO.4 AND 1/C NO. 6 GROUND (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	296	
ELECTRIC CABLE IN CONDUIT, 600V(EPR-TYPE RHW) 1/C NO. 10	FOOT	1472	
ELECTRIC CABLE IN CONDUIT, 600V(EPR-TYPE RHW) 1/C NO. 6	FOOT	184	
ELECTRIC CABLE IN CONDUIT, 600V(EPR-TYPE RHW) 1/C NO. 4	FOOT	552	
AERIAL CABLE 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	300	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	440	
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	8	
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	12	
LIGHTING FOUNDATION REMOVAL	EACH	4	
DRILL EXISTING FOUNDATION	EACH	4	
DRILL EXISTING HANDHOLE	EACH	4	
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	
REMOVAL OF TEMPORARY LIGHTING FIXTURE, SALVAGE	EACH	12	
INSTALL LIGHT POLE, MAST ARM & LUMINAIRE (MATERIAL PROVIDED BY CITY OF CHICAGO)	EACH	8	
CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL, PVC COATED	FOOT	156	
CONDUIT ATTACHED TO STRUCTURE, 3 1/2" DIA., GALVANIZED STEEL, PVC COATED	FOOT	2554	
UNDERPASS LUMINAIRE, 70WATT, HPS VAPOR, STAINLESS STEEL HOUSING	EACH	20	
STREET LIGHT CABLE, 1/C NO. 6, CITY OF CHICAGO STANDARD	FOOT	1104	
STREET LIGHT CABLE, 1/C NO. 8, CITY OF CHICAGO STANDARD	FOOT	552	

LICENSE NO.
 LICENSE EXPIRES
 ELECTRICAL PLANS
 SHEETS: -



300 W. ADAMS ST.
 SUITE 420
 CHICAGO, IL 60609
 TEL: 312-557-1940
 FAX: 312-557-1945
 Web Site: www.angif.com

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 103RD STREET
 BRIDGE OVER FAI 57 (DAN RYAN)
 GENERAL NOTES AND QUANTITIES

DATE 01-16-08
 DRAWN BY EHE
 CHECKED BY EE