



LEGEND:

- PROPOSED LIGHTING UNIT: 400W, 240V PHASE TO NEUTRAL, HPS LUMINAIRE WITH TYPE III DISTRIBUTION, 45'-2" ALUMINUM POLE SHAFT ON 24" DIAMETER CONCRETE FOUNDATION, 47'-6" MOUNTING HEIGHT, 12'-0" MAST ARM, WITH 5A FUSES AND T-BASE (RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED LIGHTING UNIT (ORANGE PHASE- OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND GFCI RECEPTACLE, 5A FUSES (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED ROADWAY LIGHTING CONTROLLER 200A, 240/480V, 1Ø, 3W, SPECIAL SINGLE DOOR, BASE MOUNTED
- EXISTING COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED CONDUIT AND CABLE AS INDICATED TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION
- PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS INDICATED

LIGHTING CONTROLLER "C101" STAGE 1 WIRING DIAGRAM
N.T.S.

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	4	960	B	2	480
C	--	--	D	--	--
E	--	--	F	--	--
G	8	1920	H	8	1920
I	--	--	J	--	--
K	--	--	L	--	--
M	--	--	N	--	--
O	--	--	P	--	--
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	4.5	1080	X	3.8	900
TOTAL	16.5	3960	TOTAL	13.8	3312

LOAD TABULATION IS BASED ON THE FOLLOWING:
400W HPS LUMINAIRE: 2.0A AT 240V
250W HPS LUMINAIRE: 1.1A AT 240V

CIRCUIT	ORANGE PHASE		CIRCUIT	BROWN PHASE	
	AMPS	WATTS		AMPS	WATTS
R1	3	360	R2	1.5	180
R3	--	--	R4	--	--
R5	--	--	R6	--	--
R7	6	720	R8	6	720
R9	--	--	R10	--	--
R11	--	--	R12	--	--
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	9	1080	TOTAL	7.5	900

LOAD TABULATION IS BASED ON THE FOLLOWING:
180W RECEPTACLE: 1.5A AT 120V
• FOR FUTURE MEDIAN RECEPTACLE LOADS

NOTES:

- SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
- COLOR CODING OF CONDUCTORS FOR 240/480V, 1Ø, 3W LIGHTING SYSTEM IS AS FOLLOWS:
"A" PHASE - RED
"B" PHASE - BLACK
NEUTRAL - WHITE
GROUND - GREEN
- COLOR CODING OF CONDUCTORS FOR 120/240V, 1Ø, 3W RECEPTACLE SYSTEM IS AS FOLLOWS:
"A" PHASE - ORANGE
"B" PHASE - BROWN
NEUTRAL - GRAY
GROUND - GREEN
- CONTRACTOR TO CONNECT PROPOSED ROADWAY LIGHTING CONTROLLER "C101" TO THE EXISTING COMED SERVICE TRANSFORMER AT DISCRETION OF COMED AND THE ENGINEER, REFER TO NOTE 2 ON DRAWING E-17 FOR FURTHER INFORMATION.

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FILE NAME = D160M61-SHT-E45.dgn	USER NAME = michal_bartusiewicz	DESIGNED - JLW	REVISED -
SHT_PLAN	PLOT SCALE = 2.000000' / in.	DRAWN - CJM	REVISED -
DT60M61-SHT-E45.dgn 3/15/2013 2:27:29 PM	PLOT DATE = 3/15/2013	CHECKED - KMY	REVISED -
		DATE - 03/13/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 45 (LaGRANGE ROAD)
LIGHTING CONTROLLER "C101" STAGE 1 WIRING DIAGRAM**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-4	COOK	877	456
E-45		CONTRACT NO. 60M61		
ILLINOIS FED. AID PROJECT				