

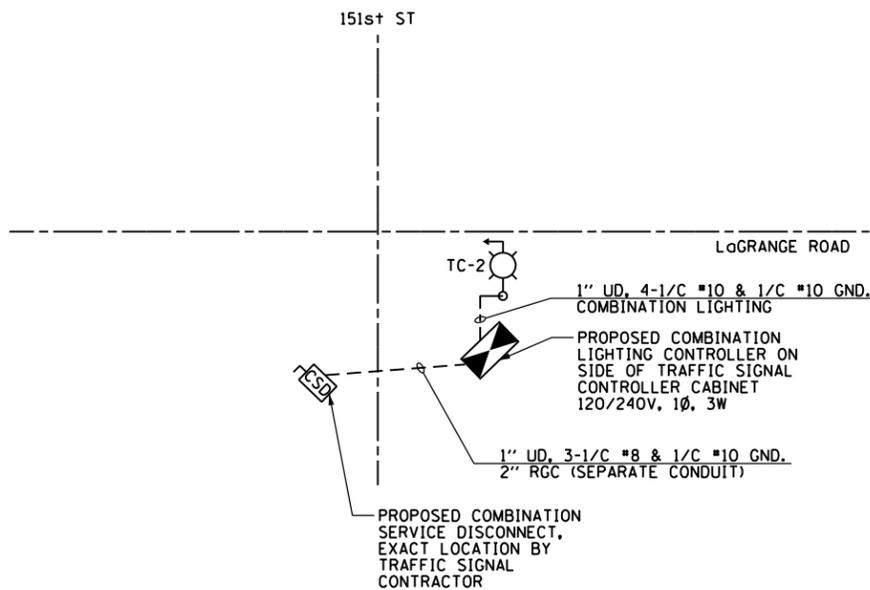
LIGHTING CONTROLLER "C103" STAGE 1 WIRING DIAGRAM
N.T.S.

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)
- EXISTING LIGHTING UNIT WITH RECEPTACLE TO BE RELOCATED (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL) (RECEPTACLE ON ORANGE PHASE- OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND RECEPTACLE, 5A FUSES (LIGHTING UNIT ON 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)
- PROPOSED TEMPORARY WOOD POLE
- PROPOSED COMBINATION POLE LIGHTING UNIT: 400W, 2.0A AT 240V PHASE TO PHASE, HPS LUMINAIRE WITH TYPE III DISTRIBUTION
- PROPOSED TEMPORARY WOOD POLE INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED ROADWAY LIGHTING CONTROLLER
- PROPOSED COMBINATION LIGHTING CONTROLLER
- COMBINATION SERVICE DISCONNECT
- 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
- TEMPORARY AERIAL CABLE AND MESSENGER WIRE AS INDICATED

NOTES:

1. SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
2. COLOR CODING OF CONDUCTORS FOR 240/480V, 1Ø, 3W LIGHTING SYSTEM IS AS FOLLOWS:
"A" PHASE - RED
"B" PHASE - BLACK
NEUTRAL - WHITE
GROUND - GREEN
3. COLOR CODING OF CONDUCTORS FOR 120/240V, 1Ø, 3W RECEPTACLE SYSTEM IS AS FOLLOWS:
"A" PHASE - ORANGE
"B" PHASE - BROWN
NEUTRAL - GRAY
GROUND - GREEN
4. AERIAL CABLES ARE ONLY PROVIDED TO COMPLETE THE ROADWAY LIGHTING CIRCUITS C103.A, C103.B, C103.G, AND C103.H. RECEPTACLE CIRCUITS C103.R1, C103.R2, C103.R3, AND C103.R4 WILL NOT BE CONNECTED AND ENERGIZED UNTIL THE PERMANENT WIRING CONNECTION IS COMPLETED AS SHOWN ON DRAWING EW3-2.



COMBINATION LIGHTING CONTROLLER "ZV" STAGE 1 WIRING DIAGRAM
N.T.S.

NOTES:

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL COMBINATION LIGHTING EQUIPMENT WITH THE TRAFFIC SIGNAL CONTRACTOR. STAGING OF THE INSTALLATION OF THE COMBINATION LIGHTING EQUIPMENT MUST FOLLOW THE STAGING OF THE PERMANENT TRAFFIC SIGNAL EQUIPMENT INSTALLATION.
2. NOT ALL COMBINATION LIGHTING EQUIPMENT STAGING IS SHOWN SINCE CONSTRUCTION STAGING WILL VARY BETWEEN INTERSECTIONS.
3. REFER TO TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS OF TRAFFIC SIGNAL CONTROLLER CABINET, COMED SERVICE TRANSFORMER FEEDING THE COMBINATION LIGHTING, AND LOCATION OF THE COMBINATION SERVICE DISCONNECT CABINET.

LIGHTING CONTROLLER "C103" ROADWAY LIGHTING PANEL LOAD TABLE

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	6	1440	B	4	480
C	--	--	--	--	1224
E	--	--	F	--	--
G	6	1440	H	4	480
I	3.3	792	J	2.2	528
K	4.4	1056	L	4.4	1056
M	--	--	N	--	--
O	--	--	P	--	480
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	15	3600	X	12	2880
TOTAL	47.8	11472	TOTAL	52.625	8832

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A AT 240V
250W HPS LUMINAIRE: 1.1A AT 240V

LIGHTING CONTROLLER "C103" RECEPTACLE PANEL LOAD TABLE

CIRCUIT	ORANGE PHASE		CIRCUIT	BROWN PHASE	
	AMPS	WATTS		AMPS	WATTS
R1	4.5	540	R2	3	360
R3	--	--	R4	--	--
R5	--	--	R6	--	--
R7	4.5	540	R8	3	360
R9	4.5	540	R10	3	360
R11	6	720	R12	6	720
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	30	3600	TOTAL	24	2880

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V
• FOR FUTURE MEDIAN RECEPTACLE LOADS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
D160M61-SHT-E46.dgn	michal_bartusiewicz	DAD	
		DRAWN -	REVISED -
		DAD	
		CHECKED -	REVISED -
		DAD	
SHT_PLAN	PLOT DATE =	DATE -	REVISED -
	3/15/2013	03/13/2013	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-4	COOK	877	457
E-46		CONTRACT NO. 60M61		
ILLINOIS FED. AID PROJECT				