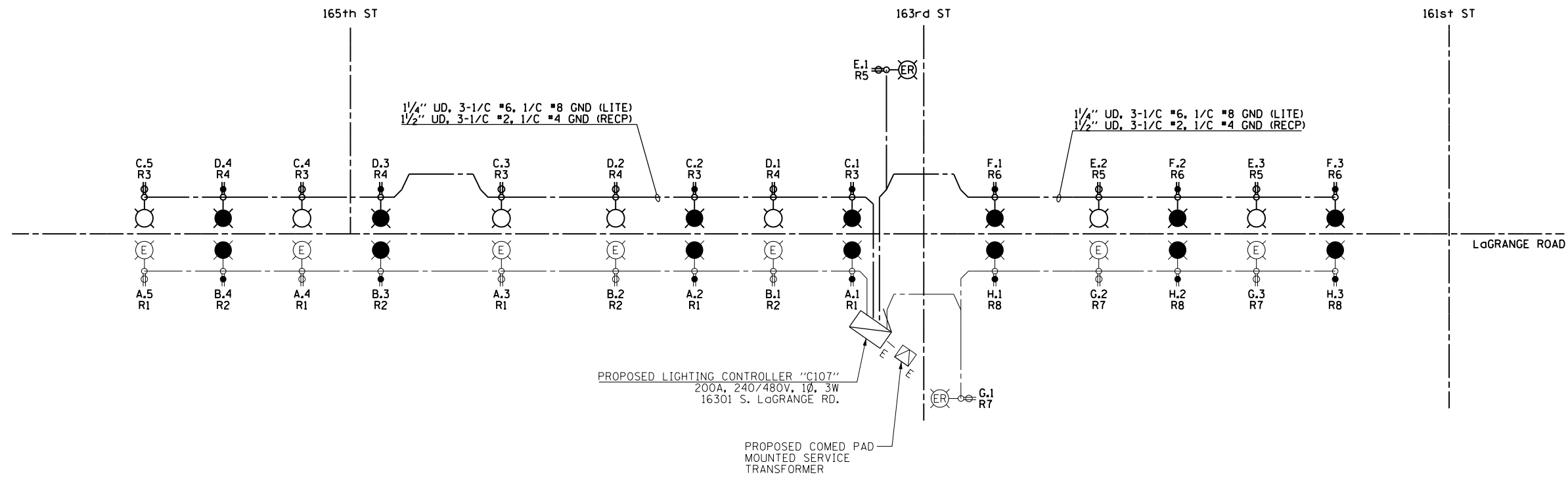


**LEGEND:**

- 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 ROADWAY LIGHTING UNIT INSTALLED IN EARLIER CONSTRUCTION STAGE (RED PHASE-OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED ROADWAY LIGHTING UNIT (ORANGE PHASE-OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED ROADWAY LIGHTING UNIT INSTALLED IN EARLIER CONSTRUCTION STAGE (ORANGE PHASE-OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- PROPOSED ROADWAY LIGHTING CONTROLLER INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED CONDUIT AND CABLE TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS IDENTIFIED
- PROPOSED UNIT DUCT INSTALLED IN EARLIER CONSTRUCTION STAGE

**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



**LIGHTING CONTROLLER "C107" STAGE 3 WIRING DIAGRAM**  
N.T.S.

LIGHTING CONTROLLER "C107" ROADWAY LIGHTING PANEL LOAD TABLE					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	10	2400	B	8	1920
C	10	2400	D	8	1920
E	5.2	1248	F	6	1440
G	5.2	1248	H	6	1440
I	--	--	J	--	--
K	--	--	L	--	--
M	--	--	N	--	--
O	--	--	P	--	--
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	40.5	9720	X	36	8640
TOTAL	70.9	17016	TOTAL	64	15360

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A AT 240V  
250W HPS LUMINAIRE: 1.2A AT 240V

LIGHTING CONTROLLER "C107" RECEPTACLE PANEL LOAD TABLE					
CIRCUIT	ORANGE PHASE		CIRCUIT	BROWN PHASE	
	AMPS	WATTS		AMPS	WATTS
R1	7.5	900	R2	6	720
R3	7.5	900	R4	6	720
R5	4.5	540	R6	4.5	540
R7	4.5	540	R8	4.5	540
R9	--	--	R10	--	--
R11	--	--	R12	--	--
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	24	2880	TOTAL	21	2520

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V  
360W MEDIAN RECEPTACLE: 3.0A AT 120V (NOTE 4)

FILE NAME = D160F05-SHT-E18.dgn	USER NAME = Frank.Stallone	DESIGNED - MAE	REVISED -
		DRAWN - WM	REVISED -
		CHECKED - DAD	REVISED -
SHT.PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 544
E-18			CONTRACT NO. 60F05	
ILLINOIS FED. AID PROJECT				