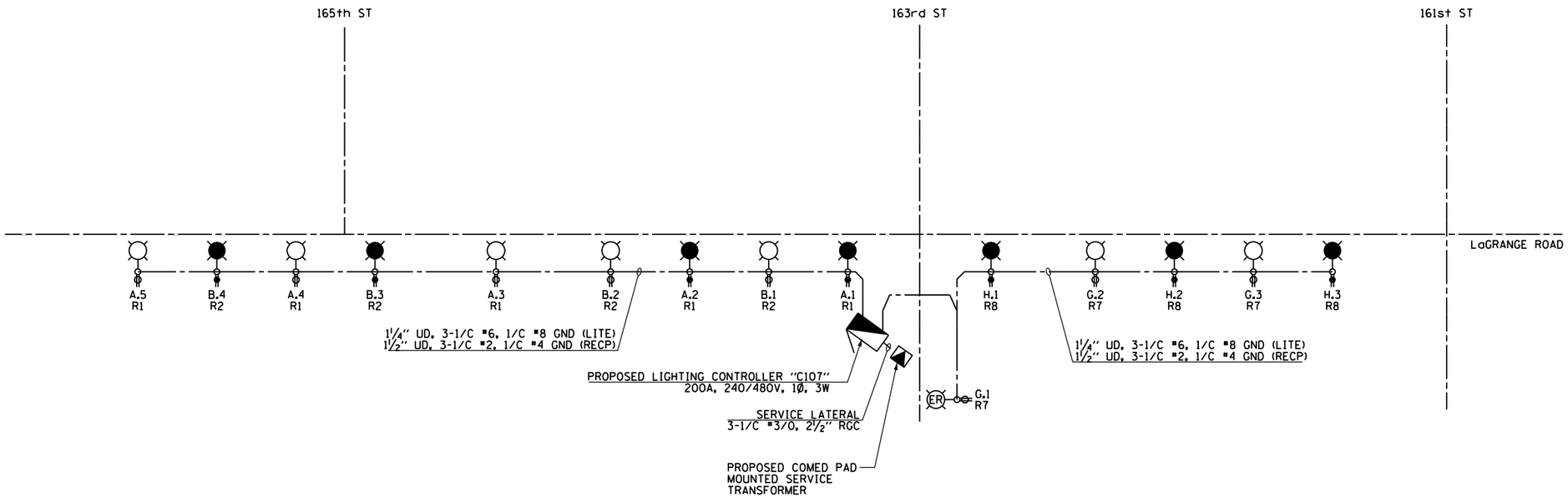

LIGHTING CONTROLLER "C107" STAGE 2 WIRING DIAGRAM
N.T.S.

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)
- RELOCATED LIGHTING UNIT. PROVIDE NEW 250W HPS, 240V, MC-III LUMINAIRE ON A RELOCATED POLE IN PROPOSED LOCATION, WITH 5A FUSES AND T-BASE (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 ROADWAY LIGHTING CONTROLLER SINGLE DOOR, BASE MOUNTED, SPECIAL 200A, 240/480V, 1Ø, 3W
- PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED CONDUIT AND CABLE AS IDENTIFIED TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION
- PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS IDENTIFIED

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. MEDIAN RECEPTACLE ARE FOR FUTURE LANDSCAPING PROJECT.

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	--	--	D	--	--
E	--	--	F	--	--
G	5.2	1248	H	6	1440
I	--	--	J	--	--
K	--	--	L	--	--
M	--	--	N	--	--
O	--	--	P	--	--
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	6	1440	X	5.25	1260
TOTAL	21.20	5088	TOTAL	19.25	4620

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A 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	--	--	R4	--	--
R5	--	--	R6	--	--
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: 3.0 AT 120V (NOTE 4)

URS
100 S. WACKER DR.
SUITE 500
CHICAGO IL 60606
TEL (312)939-1000
FAX (312)939-4198

FILE NAME = D160F05-SHT-E17.dgn	USER NAME = Frank.Stallone	DESIGNED - MAE	REVISED -
		DRAWN - WM	REVISED -
	PLOT SCALE = 2.000000 ' / in.	CHECKED - DAD	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LaGRANGE ROAD)
LIGHTING CONTROLLER "C107" STAGE 2
WIRING DIAGRAM

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	543
	E-17	CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		