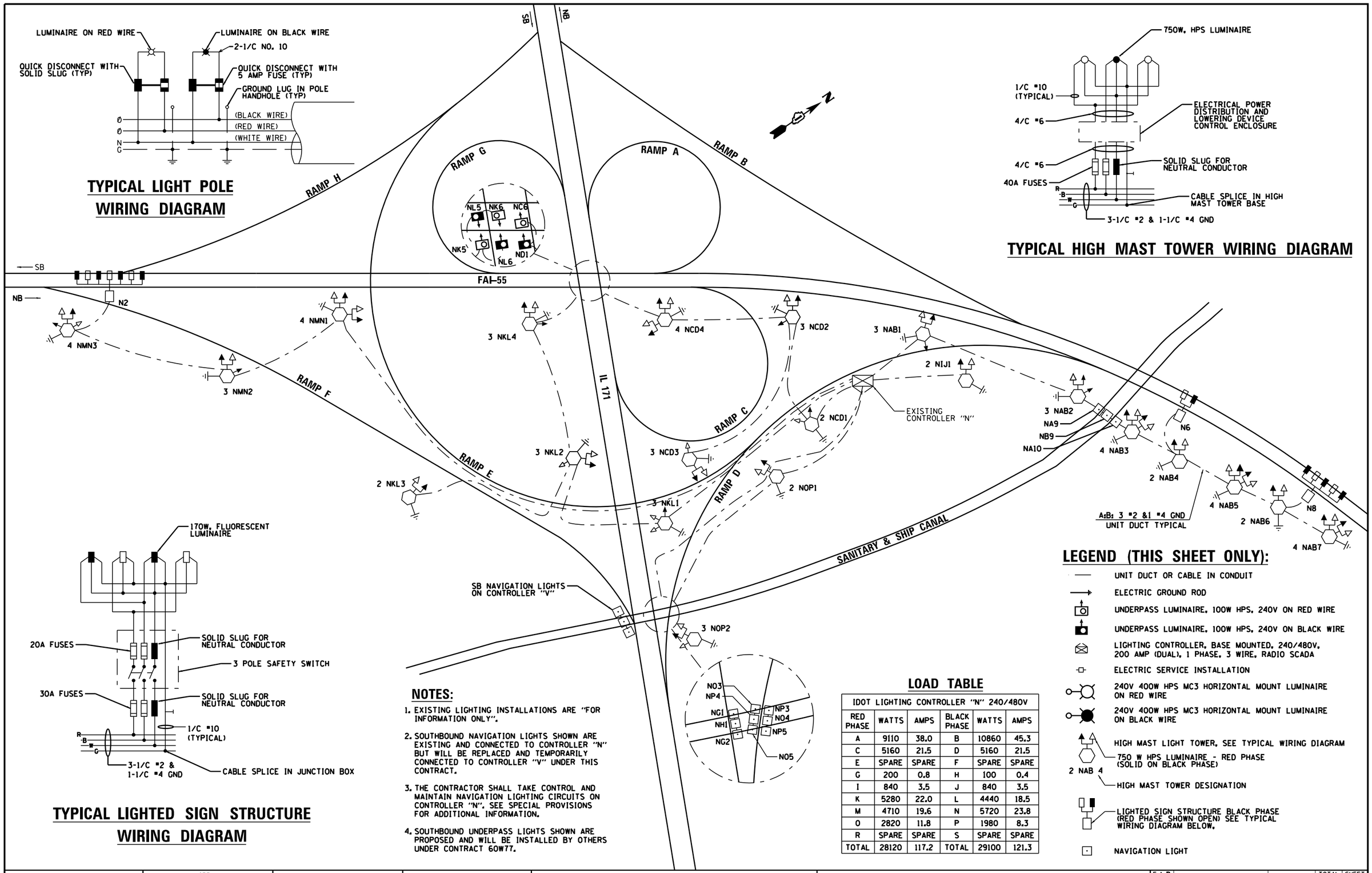
TYPICAL LIGHT POLE WIRING DIAGRAM

TYPICAL HIGH MAST TOWER WIRING DIAGRAM



TYPICAL LIGHTED SIGN STRUCTURE WIRING DIAGRAM

NOTES:

1. EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
2. SOUTHBOUND NAVIGATION LIGHTS SHOWN ARE EXISTING AND CONNECTED TO CONTROLLER "N" BUT WILL BE REPLACED AND TEMPORARILY CONNECTED TO CONTROLLER "V" UNDER THIS CONTRACT.
3. THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN NAVIGATION LIGHTING CIRCUITS ON CONTROLLER "N". SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
4. SOUTHBOUND UNDERPASS LIGHTS SHOWN ARE PROPOSED AND WILL BE INSTALLED BY OTHERS UNDER CONTRACT 60W77.

LOAD TABLE

IDOT LIGHTING CONTROLLER "N" 240/480V					
RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	9110	38.0	B	10860	45.3
C	5160	21.5	D	5160	21.5
E	SPARE	SPARE	F	SPARE	SPARE
G	200	0.8	H	100	0.4
I	840	3.5	J	840	3.5
K	5280	22.0	L	4440	18.5
M	4710	19.6	N	5720	23.8
O	2820	11.8	P	1980	8.3
R	SPARE	SPARE	S	SPARE	SPARE
TOTAL	28120	117.2	TOTAL	29100	121.3

LEGEND (THIS SHEET ONLY):

- UNIT DUCT OR CABLE IN CONDUIT
- ELECTRIC GROUND ROD
- UNDERPASS LUMINAIRE, 100W HPS, 240V ON RED WIRE
- UNDERPASS LUMINAIRE, 100W HPS, 240V ON BLACK WIRE
- LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL), 1 PHASE, 3 WIRE, RADIO SCADA
- ELECTRIC SERVICE INSTALLATION
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE
- HIGH MAST LIGHT TOWER, SEE TYPICAL WIRING DIAGRAM
- 750 W HPS LUMINAIRE - RED PHASE (SOLID ON BLACK PHASE)
- 2 NAB 4 — HIGH MAST TOWER DESIGNATION
- LIGHTED SIGN STRUCTURE BLACK PHASE (RED PHASE SHOWN OPEN) SEE TYPICAL WIRING DIAGRAM BELOW.
- NAVIGATION LIGHT

FILE NAME =	DESIGNED - GRR	REVISED -
...\D160J16-sht-IL171-wiring-02.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER "N" WIRING DIAGRAM

SCALE: | SHEET 28 OF 49 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	COOK	821	227

CONTRACT NO. 60J16

ILLINOIS FED. AID PROJECT