

ELECTRICAL LOAD CHART

IL. RTE. 47

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	12	10	60
YELLOW	12	17	5
GREEN	12	11	35
YELLOW ARROW	8	6	5
GREEN ARROW	8	5	10
YELLOW FLASHER	2	17	50

U.S. RTE. 52

RED	8	10	70
YELLOW	8	17	5
GREEN	8	11	10
YELLOW ARROW	4	6	5
GREEN ARROW	4	5	10
YELLOW FLASHER	2	17	50

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR UNINTERRUPTABLE	18	1.5	100
POWER SUPPLY	1	50	100

HIGHWAY LIGHTING

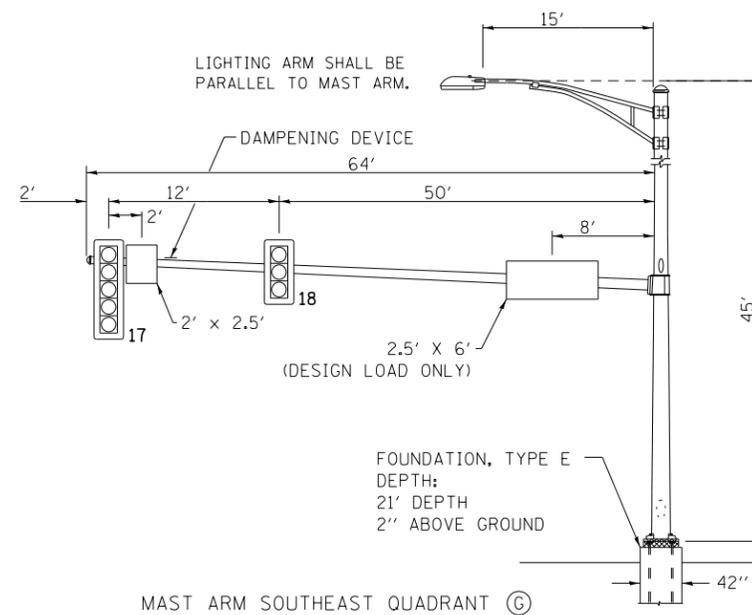
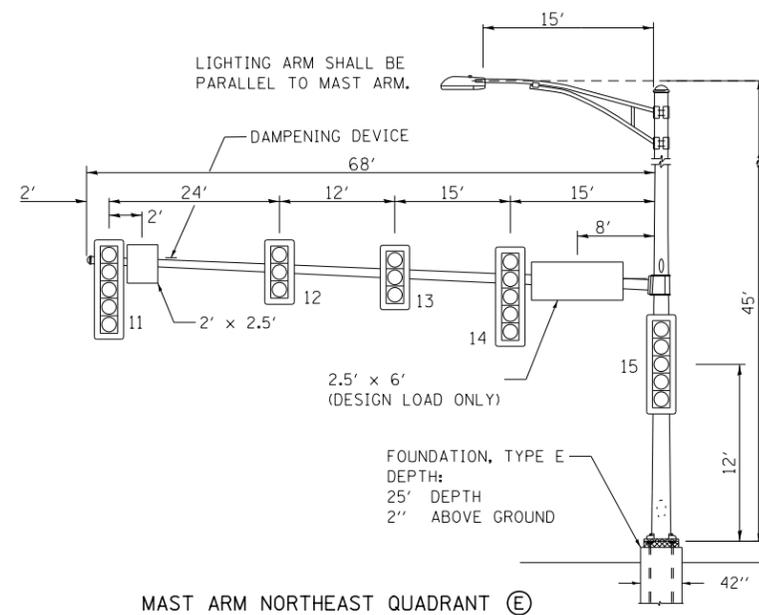
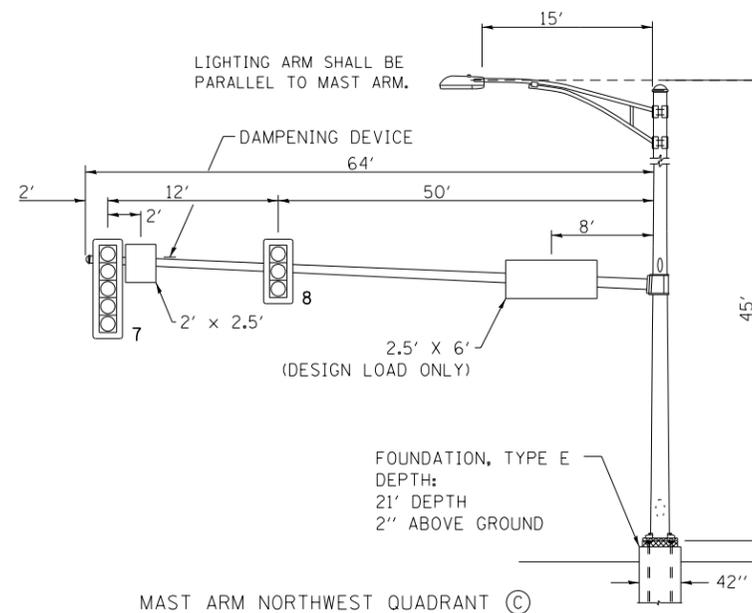
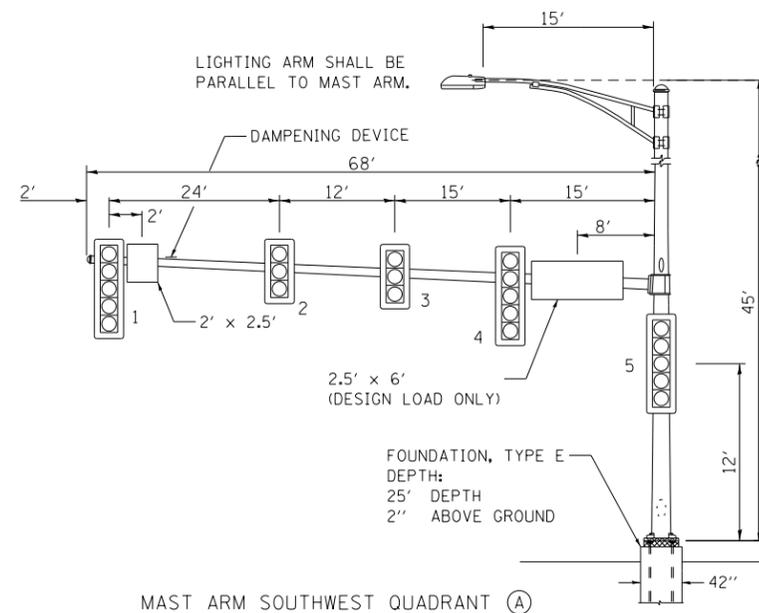
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	400	45

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	5	537	26320	OFF
B	4	284	36192	OFF
C	4	589	25131	OFF
D	4	848	20945	OFF
E	6	678	23424	OFF
F	4	562	25728	ON
G	4	562	25728	OFF
H	4	831	21158	OFF
I	5	481	27810	OFF
J	4	227	40482	OFF
K	4	532	26443	OFF
L	4	791	21686	OFF
M	6	673	23511	ON
N	4	558	25820	ON
O	4	557	25843	OFF
P	4	826	21222	OFF
Q	6	698	23086	OFF
R	6	637	24166	OFF

NOTES:

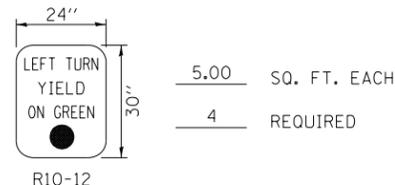
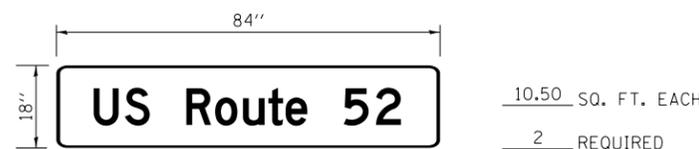
- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 4" ABOVE THE SURROUNDING GROUND.
- ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
- FOUNDATION SHOULD BE 2" ABOVE GROUND OR 1" ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.



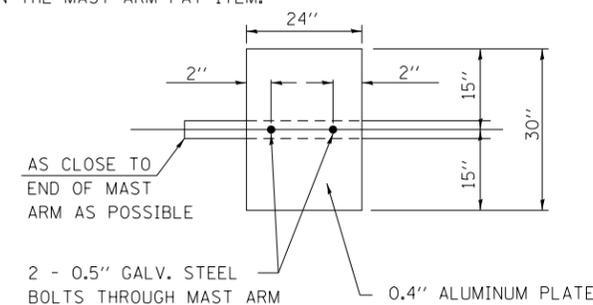
STREET SIGN DETAIL

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

- STREET NAME SIGNS:
- TYPE ZZ SHEETING REQUIRED
 - WHITE/GREEN BACKGROUND
 - 3/4 in BORDER
 - 8 in SERIES D LETTERS



NOTE: DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



REDUCE THE NUMBER OF LEAD-IN CABLES TO REDUCE CUTS IN THE CONCRETE PAVEMENT. PLACE ACCORDING TO PLAN OR AS DIRECTED BY THE ENGINEER. RED TIME FOR LEFT TURNS ON IL. RTE. 47 SHALL GET THE REQUIRED MUTCD RED TIME + ONE SECOND TO ACCOMMODATE U-TURNS.

FOR THE CONDUIT GOING TO THE SIGNAL HEAD MOUNTED ON THE SIGN POST, 12 FEET OF CONDUIT ATTACHED TO STRUCTURE HAS BEEN INCLUDED FOR THE PORTION ATTACHED TO THE SIGN POST. THE CONDUIT ADAPTER FROM THE GROUND CONDUIT TO THE ATTACHED CONDUIT IS INCIDENTAL TO THE CONDUIT PAY ITEM.

ALL LIGHTING CABLES WILL BE CONNECTED TO THE PROPOSED LIGHTING CONTROLLER. SEE LIGHTING PLANS.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

FILE NAME =	USER NAME = bdecreane	DESIGNED - RC
V:\3195\66884 (North Section)\CADD Sheets\0366884-sh-t-ts-11.dgn		DRAWN - RC
	PLOT SCALE = 40.0000' / in.	CHECKED - ST
#MODELNAME#	PLOT DATE = 7/14/2014	DATE - 7/01/2014



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47 AT U.S. RTE. 52	
MAST ARM LOADING DIAGRAM, ELECTRICAL LOAD CHART & SIGN DETAILS	
SCALE: N/A	SHEET NO. 12 OF 13 SHEETS
STA. N/A	TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(109, 110R-1)	KENDALL	619	362
CONTRACT NO. 66B84				
ILLINOIS FED. AID PROJECT				