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

CONTRACT NO. 66671 TOTAL SHEET SHEETS NO. COUNTY KENDALL 931 622 326 STA, N/A TO STA, N/A FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

*(5CS, 13C, 108, 109)R

ELECTRICAL LOAD CHART

DETECTOR LOOP INDUCTANCE CHART

IL ROUTE 47				
		WATTAGE	BURN	DETECTOR L
INDICATION	NUMBER	EACH	TIME (%)	SYSTEM
RED	11	12	60	A
YELLOW	11	32	5	В
GREEN	11	12	35	С
YELLOW ARROW	7	12	5	D
GREEN ARROW	7	11	10	E
*	4	7	5	F
Ú	4	7	95	G
#				Н
COUNTRYSIDE PARKWAY				I
				J
RED	10	12	70	K
YELLOW	10	32	5	L
GREEN	10	12	25	M
YELLOW ARROW	8	12	5	N
GREEN ARROW	8	11	10	0
K	4	7	5	P
ш.	4	7	95	L
T .				

WATTAGE

BURN

DETECTOR LOOP	1011110	INDUCTANCE READING		J PIN
SYSTEM	PER LOOP	(MICROHENRIES)	(HERTZ)	STATUS
A	4	553	25,936	OFF
В	6	619	24,531	ON
С	4	813	21,391	ON
D	4	710	22,905	OFF
E	4	479	27,887	ON
F	4	529	26,518	ON
G	4	529	26,518	ON
Н	4	529	26,518	ON
I	4	529	26,518	ON
J	4	562	25,728	OFF
К	6	620	24,511	ON
L	4	822	21,273	ON
M	4	669	23,597	OFF
l N	4	509	27,052	ON
0	4	843	21,007	ON
P	4	843	21,007	ON

NUMBER EACH TIME (%) CONTROLLER 100 INDUCTIVE LOOP DETECTOR 1.5 100 50 UNINTERUPTABLE 100 POWER SHPPLY LIGHT DETECTOR AMPLIFIER 1 1.5 100

HIGHWAY LIGHTING WATTAGE BURN NUMBER EACH TIME (%) CONTROLLER 100 LUMINAIRE 400

GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.

NOTES:

TRAFFIC SIGNAL CABINET

- 1. WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm
- 3. FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY,

- ABOVE THE SURROUNDING GROUND.
- 2. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
- WHICHEVER IS HIGHER.

STREET SIGN DETAIL

4.57 m

2.4 m

LIGHTING ARM SHALL BE

PARALLEL TO MAST ARM

0.6 m x 0.75 m

LIGHTING ARM SHALL BE

PARALLEL TO MAST ARM

3.87 m, 3.73 m, 3.92 m

DAMPENING DEVICE

15.85 m MAST ARM

0.75 m × 1.8 m

(DESIGN LOAD ONLY)

DEPTH:

---O.6m

12

LIGHT DETECTOR

CONFIRMATION BEACON-

DAMPENING DEVICE

14.63 m MAST ARM

 $0.75 \text{ m} \times 1.8 \text{ m}$

(DESIGN LOAD ONLY)

DEPTH:

10.08 m

FOUNDATION, TYPE E

50 mm ABOVE GRADE

MAST ARM NORTHWEST QUADRANT (E)

FOUNDATION, TYPE E

50 mm ABOVE GRADE

MAST ARM SOUTHWEST QUADRANT (C)

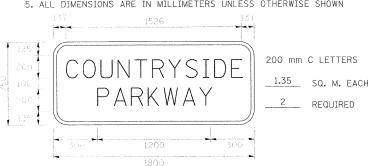
4.6 m DEPTH

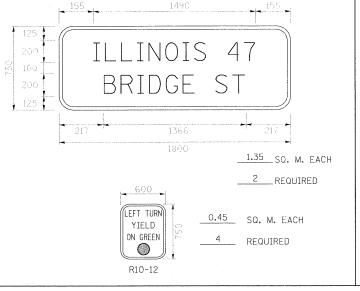
3.73m

4.6 m DEPTH

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

- STREET NAME SIGNS:
- 1. TYPE ZZ SHEETING REQUIRED
- 2. WHITE/GREEN BACKGROUND
- 3. STYLE (d)-15 mm BORDER
- 4, 200 mm SERIES D LETTERS REQUIRED UNLESS OTHERWISE SHOWN
- 5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN





4.57 m

2.4 m

4.57 m

1060 mm

1060 mm

19

FOUNDATION, TYPE E

50 mm ABOVE GRADE

MAST ARM NORTHEAST QUADRANT (G)

10.32 m

FOUNDATION, TYPE E

50 mm ABOVE GRADE

MAST ARM SOUTHEAST QUADRANT (A)

4.4 m DEPTH

 $0.75 \text{ m} \times 1.8 \text{ m}^{-1}$

(DESIGN LOAD ONLY)

DEPTH:

6.2 m DEPTH

LIGHTING ARM SHALL BE

PARALLEL TO MAST ARM

LIGHTING ARM SHALL BE

PARALLEL TO MAST ARM

- DAMPENING DEVICE

14.02 m MAST ARM

 $0.75 \text{ m} \times 1.8 \text{ m}$

(DESIGN LOAD ONLY)

DEPTH:

0.6m

LIGHT DETECTOR

1060 mm

- 1060 mm

CONFIRMATION BEACON-

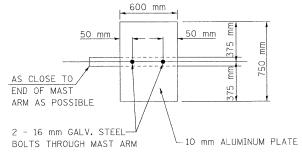
0.6m

3.10 m

 $^{\text{L}}$ 0.6 m \times 0.75 m

DAMPENING DEVICE 18.29 m MAST ARM

> DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1. UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM, COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL (TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

8 REQUIRED.

DIMENSIONS: 230mm × 380mm (TYP.) LEGEND AND BORDER: NON-REFLECTORIZED BLACK BACKGROUND: RETROREFLECTIVE WHITE NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION, ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION MAST ARM LOADING DIAGRAM ELECTRICAL LOAD CHART SIGN DETAILS IL. 47 (BRIDGE ST.)/ COUNTRYSIDE PARKWAY SCALE: NONE DRAWN BY: SL DATE: MARCH, 2010 CHECKED BY: KC