

CKT. HCE & HCF
3-1/C #4, 1/C #6 GND.
1/4" DIA. UNIT DUCT (TYP.)

PROPOSED LIGHTING CONTROLLER "HC"
IDOT MAINTAINED, LOCATION NO. L2417
100A, 240/480 VAC, 1Ø, 3 WIRE

SERVICE CABLE
3-1/C # 2/0, 3" RGS
CONDUIT IN TRENCH

PROPOSED COMED ELECTRIC
SERVICE POLE
240/480 VAC, 1Ø

CKT. HCA & HCB
3-1/C #4, 1/C #6 GND.
1/4" DIA. UNIT DUCT (TYP.)

CKT. HCG & HCH
3-1/C #4, 1/C #6 GND.
1/4" DIA. UNIT DUCT (TYP.)

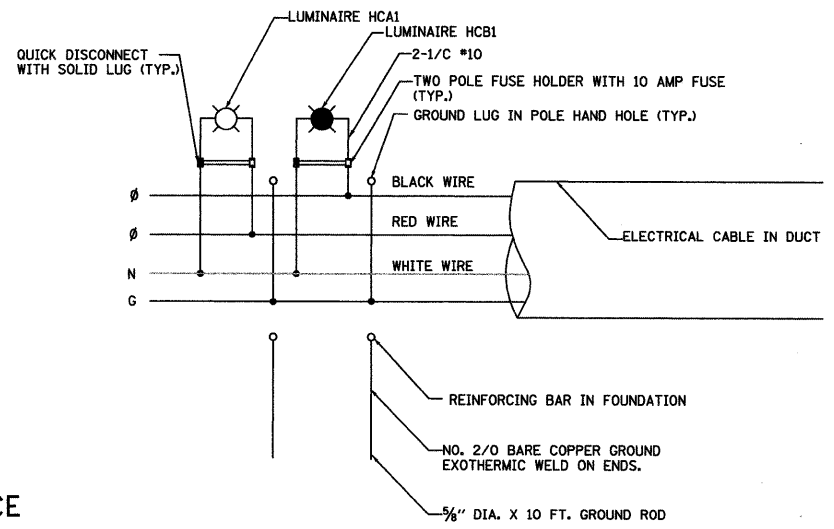
CKT. HCC & HCD
3-1/C #4, 1/C #6 GND.
1/4" DIA. UNIT DUCT (TYP.)

LOAD TABLE PROPOSED LIGHTING CONTROLLER "HC" (@ 240 VOLTS)					
CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A	7.2	1728	B	7.2	1728
C	7.6	1824	D	7.6	1824
E	10.4	2496	F	8.4	2016
G	12.4	2976	H	11.6	2784
TOTAL	37.6	9024	TOTAL	34.8	8352

TOTAL LOAD ON CONTROLLER (@240 V): **72.4 AMP**
TOTAL LOAD ON CONTROLLER (@480 V): **36.2 AMP**

LEGEND

- PROPOSED LIGHTING CONTROLLER, SINGLE DOOR, 100A, 240/480V, 1Ø
- PROPOSED LIGHTING UNIT
47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)
- PROPOSED LIGHTING UNIT
47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)
- PROPOSED LIGHTING UNIT
47.5' M.H., 15' M.A., 250W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)
- PROPOSED LIGHTING UNIT
47.5' M.H., 15' M.A., 250W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)
- PROPOSED COMBINATION LIGHTING UNIT
45' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)
- PROPOSED COMBINATION LIGHTING UNIT
45' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)
- ELECTRIC GROUND ROD



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FILE NAME =	USER NAME = J.M. ELSHOLT,	DESIGNED - MAE	REVISED -
J:\projects\projects 2009\us-30_wolf_sml\07_WIRING_DIAGRAM.dgn		DRAWN - MAA	REVISED -
PLOT SCALE = NONE		CHECKED - MGK/PKG	REVISED -
PLOT DATE = 6/29/2009		DATE - JULY 1, 2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "HC"**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	09-00029-00-LT	WILL	13	7
CONTRACT NO. 63250				
FED. ROAD DIST. NO. ILLINOIS/FAP 353/US 30 (LINCOLN HIGHWAY)				