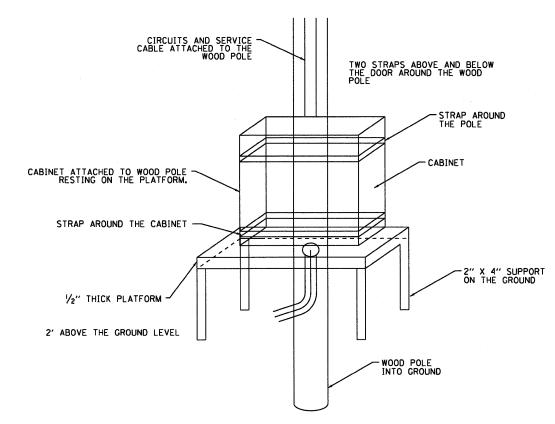


PANEL WIRING DIAGRAM



PANEL EQUIPMENT

	BILL OF MATERIAL							
ITEM	OUANTITY	DESCRIPTION						
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.						
В	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.						
С	8	CIRCUIT BREAKERS, 1 POLE, 100 AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.						
D	2	CONTROL CIRCUIT - CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.						
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).						
F	1	20 A., 120 V. FUSE.						
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60Hz.						
Н	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN						
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.						
J	1	20 A., 120 V. DUPLEX RECEPTACLE, GFCI.						
К	1	COPPER GROUND BUS 1/4" X 1" X 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS						
L	1	TOGGLE SWITCHES MOUNTED IN 4" X 4" BOX.						
M	1	COPPER GROUND BUS 1/4" X 1" X 12" LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS						

NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE
- 2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" TOP SOIL. LEVEL THE AREA AND ON TOP PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" X 60" X 4" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR SHALL BE CONSTRUCTED FROM THE SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- 6. DOOR HINGE SHALL BE A HEAVY GUAGE CONTINEOUS HINGE WITH A 1/4" DIA. STAINLESS STEEL HINGE PIN.
- 7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL
- 8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- 9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET NEAR TO THE SERVICE POLE.
- 10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- 12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED: R= RED BL= BLUE
- W= WHITE B= BLACK Y= YELLOW G= GREEN
- 13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- 15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 16. 12" X 16" STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

COUNTY

KANF 434 237

CONTRACT NO. 60K90

POLE MOUNTED CABINET DETAIL



GANDHI AND ASSOCIATES, INC. ENGMEERS AND PLANMERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 6063I TEL.(773)774-5910

USER NAME = _GAI_	DESIGNED	***	PKG	REVISED	-
	DRAWN	-	MAA, SHM	REVISED	ou.
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG	REVISED	
PLOT DATE = 5/12/2011	DATE	-	05/18/2011	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DOLE MADE	F.A.P. RTE.	SECTION	COUNTY				
POLE MOUNTED LIGHTING CONTROLLER DETAIL						345	8R-HB-2-BY-1	KANE
								CONTRA
SCALE: 1"= 50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT