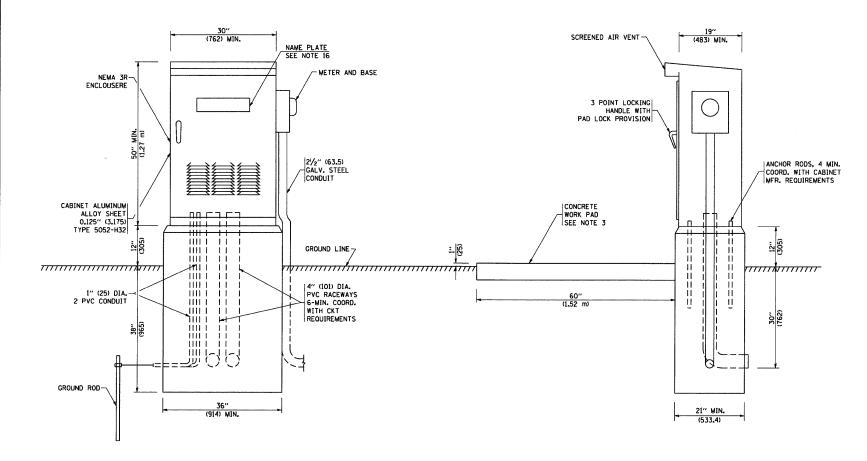
CIRCUIT BREAKER - MAIN BREAKER **(** 0 TWO POSITION TOGGLE SWITCH $^{\otimes}$ TOGGLE SWITCH MOMENTARY CONTACT TYPE SPDT 20 A. 240V AC AND TOGGLE SWITCH 自自 (3) 1/4" (6.35) MINIMUM (C) NON-ASBESTOS INORGANIC NONCONDUCTING MATERIAL MOUNTING PANEL. CONTROL RELAY (IF NECESSARY) ---CABINET ENCLOSURE -3-1/C SERVICE ENTRANCE CABLE FROM ELECTRIC BONDING JUMPER ---UTILITY METER BOX *6 AWG. 600V 240/480 VOLT, 1Ø,3 GROUND ROD 5/8" (15.875) WIRES, 60 CYCLES. DIA. x 10' (3.048 m) LONG - GROUNDING CONDUCTOR #2 AWG. PANEL WIRING DIAGRAM



PANEL EQUIPMENT

BILL OF MATERIAL								
ITEM	QUANTITY	DESCRIPTION						
Α	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, 100AMP. 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, 60 Hz.						
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" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS						
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.						
М	1	COPPER GROUND BUS $1/4$ " (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS						

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE

 12. ALL WIRING WITHIN THE CABINET SHALL BE TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR SHALL BE CONSTRUCTED FROM 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 GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm)
 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
- 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
- COLOR CODED AS INDICATED. R = RED BL = BLUE W = WHITE Y = YELLOW B = BLACK 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
- 15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

FILE NAME =		USER NAME = gaglianobt	DESIGNED ~	REVISED - 08-20-04			
١	W:\diststd\22x34\be215.dgn		DRAWN -	REVISED -			
١		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -			
L		PLOT DATE = 1/4/2008	DATE -	REVISED -			

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	LIGHTING CONTR	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	SINGLE DOO				781	570	
	SHARE DOO		BE-215	CONTRACT	NO.		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			