

ONE LINE DIAGRAM CONTROLLER "N"
NO SCALE

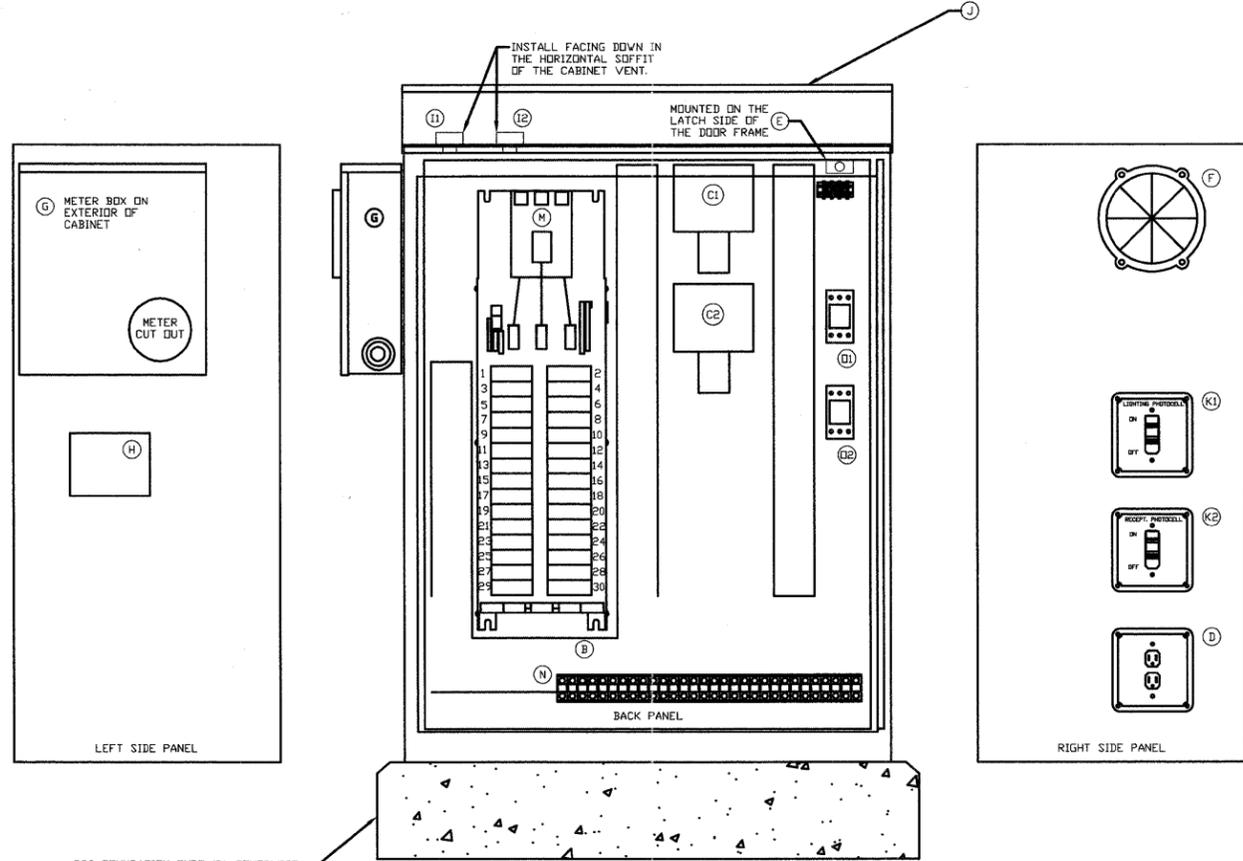
ONE-LINE DIAGRAM NOTES

- AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
- ALL FUSES FROM 5 AMPERE TO 200 AMPERE SHALL BE DUAL ELEMENT, CLASS RK-1 UNLESS NOTED OTHERWISE.

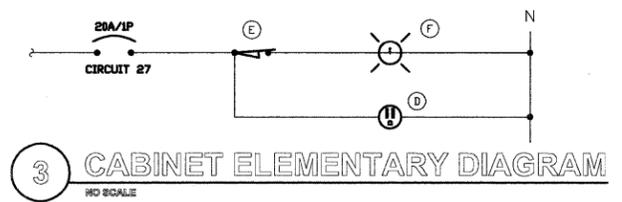
BILL OF MATERIALS FOR LIGHTING CONTROLLER "E3"		
ITEM #	QUANTITY	DESCRIPTION
B	1	BRANCH CIRCUIT PANEL INTERIOR, 200A COPPER BUS, 240/120 VOLT, MOLDED CASE THERMAL MAGNETIC CIRCUIT BREAKERS, BOLT ON TYPE, AIC RATING OF 65,000 AMPS AT 240 VOLTS.
C1 C2	2	MECHANICAL CONTACTOR, 8 POLE, 30 AMP, 120V COIL. PROVIDE WITH TWO-WIRE CONTROL FOR PHOTOCELL INTERFACE.
D	1	Q1 RECEPTACLE 120V, 20A, SPECIFICATION GRADE, NEMA 5-20R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.
E	1	20A SPDT MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED), 120 VOLT, 15 AMP CONTACTS.
F	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT WITH GLOBE AND GUARD AND MOUNTING BOX. LAMP PROVIDED WITH FIXTURE.
G	1	METER FITTING, 1 PHASE, 3 WIRE, 100 AMP
H	1	SURGE ARRESTOR, BRACKET MOUNTED, 120/240 VOLT SERVICE.
I1 I2	2	PHOTOCCELL, 120V, 1500 VA RATED, SINGLE POLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. U.L. LISTED.
J	1	CABINET ENCLOSURE PAD MOUNTED, STAINLESS STEEL, N.E.M.A. 4 CONSTRUCTION WITH KEY LOCKING DOOR. KEY CYLINDER SHALL MATCH EXISTING VILLAGE LIGHTING CONTROLLER LOCKS. 30"W. 48"H. 18"D.
K1 K2	2	TOGGLE SWITCH, SPDT, 20 AMP, 240 VOLT, SPECIFICATION GRADE MOUNTED IN SURFACE BOX.
M	1	MAIN CIRCUIT BREAKER, MOLDED CASE THERMAL MAGNETIC SERVICE ENTRANCE DUTY RATED 240 VOLT, 100 AMP, 2 POLE, AIC RATING OF 65,000 AMPS AT 240 VOLTS. INTEGRAL TO BRANCH PANEL.
N	1	COPPER LOAD TERMINAL BLOCK FOR AWG#6 AND AWG#12
O1 O2	2	FORM TYPE C RELAY, ELECTRICALLY HELD, ONE NORMALLY OPEN (N.O.) AND ONE NORMALLY CLOSED (N.C.) CONTACTS, 60V CONTINUOUS DUTY COIL, 30 AMP CONTACT RATING.

CONTROLLER NOTES:

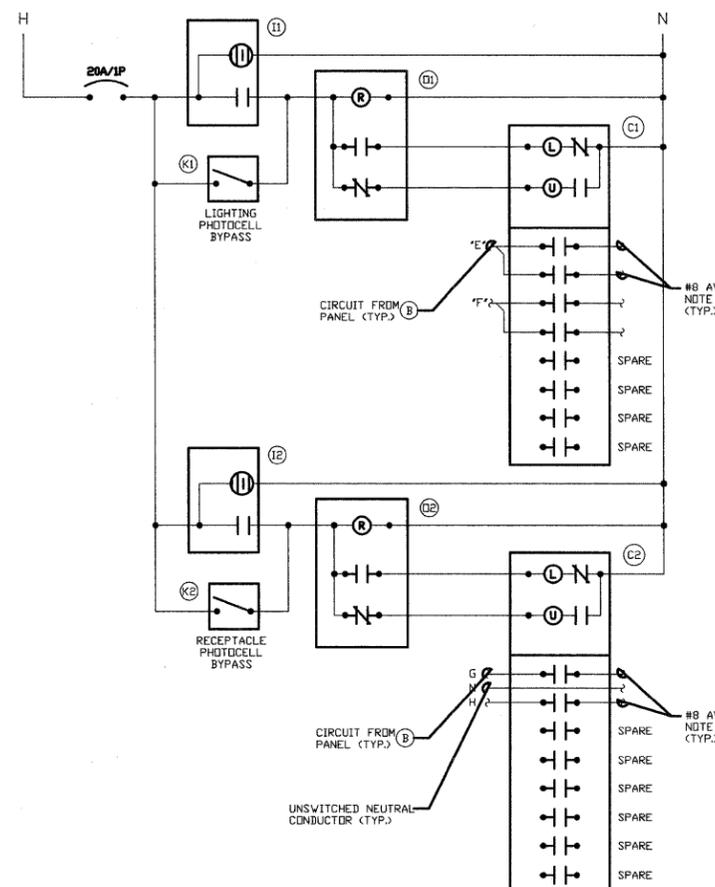
- THE CONTROLLER FOUNDATION SHALL HAVE TWO ADDITIONAL RACEWAYS INSTALLED FOR FUTURE USE.
- THE CONTROL CABINET SHALL BE U.L. LISTED UNDER U.L. 508A.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- THE ENCLOSURE SHALL BE VENTED. ONE INCH SCREENED VENT HOLES WILL BE PROVIDED IN THE OVER HANG.
- THE CABINET SHALL BE PROVIDED WITH A 3" X 12" STAINLESS NAMEPLATE, ENGRAVED TO READ "LIGHTING CONTROLLER."
- THE DOORS SHALL BE GASKETED PER SPECIFICATIONS. THE DOOR HANDLE SHALL BE 3/4" STAINLESS STEEL WITH KEY LOCK, AND HAVE A PROVISION FOR PADLOCKING
- THE MOUNTING PANEL SHALL BE 1/2 INCH ARBORON MATERIAL. EXPOSED BUS BARS SHALL BE INSULATED.
- CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR THE NEUTRAL BUS AND GREEN FOR THE GROUNDING BUS.
- ALL MULTIPLE CONNECTIONS TO A SINGLE SOURCE WILL BE ACCOMPLISHED BY USE OF SPLICE BLOCKS OR MULTI CONNECTION LUGS.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED USING THE FOLLOWING ABBREVIATIONS:
R - RED Y - YELLOW
B - BLACK W - WHITE
BL - BLUE G - GREEN
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. ALL CONTROL WIRING SHALL BE STRANDED AND IDENTIFIED, AS INDICATED OR AS DIRECTED BY THE ENGINEER, BY MEANS OF BRADY MARKERS.
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- SEALING GROMMETS SHALL BE PROVIDED FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



LIGHTING CONTROL CABINET
NO SCALE
U.L. LISTED
DOOR APPROVED



CABINET ELEMENTARY DIAGRAM
NO SCALE



LIGHTING CONTROL ELEMENTARY DIAGRAM
NO SCALE

- NOTES:
1. ALL CABINET INTERIOR WIRING SHALL BE STRANDED COPPER #12 AWG THWN UNLESS NOTED OTHERWISE.
2. ROUTE TO STREET LIGHTING LUMINAIRES VIA TERMINAL BLOCK (N)

TYPE: BOLT-ON		PANEL NAME: CONTROLLER "N"		CONNECTED 0.4 KVA				
MOUNTING: SURFACE - INTERIOR ONLY		SOLID NEUTRAL		MAIN: 200A NCS				
FED FROM: UTILITY		GROUND BUS		VOLTS: 240/120				
AIC RATING: 65,000				PHASE: 1				
				WIRE: 3				
CKT NO.	LOAD DESCRIPTION	WIRE SIZE	LOAD KVA	BREAKER AMP	BREAKER P	LOAD WIRE SIZE	LOAD DESCRIPTION	CKT NO.
1	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	1
2	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	2
3	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	3
4	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	4
5	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	5
6	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	6
7	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	7
8	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	8
9	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	9
10	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	10
11	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	11
12	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	12
13	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	13
14	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	14
15	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	15
16	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	16
17	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	17
18	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	18
19	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	19
20	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	20
21	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	21
22	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	22
23	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	23
24	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	24
25	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	25
26	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	26
27	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	27
28	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	28
29	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	29
30	1" POLE LIGHTING	#8	3.8	20	2	#8	1" POLE LIGHTING	30

NOTES: *# = REFER TO WIRING DIAGRAM FOR WIRE SIZE. *O = REFER TO ONE LINE DIAGRAM ON THIS SHEET FOR WIRE SIZE.