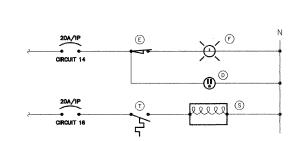


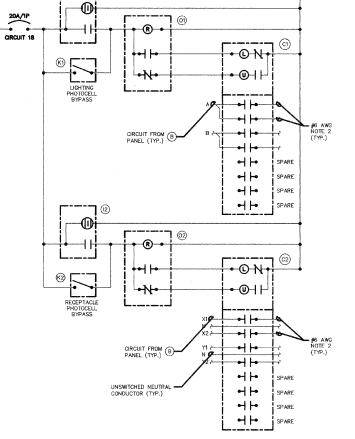
TYPE: BOLT-ON MOUNTING: SURFACE - INTERIOR ONLY			PAN	EL N	AME: ELLINWOOD				IAIN:	CONNECTED 6.7 KV 100A MCB	/A			
						SOLID NEUTRAL			VOLTS		LTS:	240/120		
FED FROM: PANEL 'ELLINWOOD 2'				GROUND BUS			PHASE:			1				
AIC RATI	NG:	14,000								-	W	RE:	3	
CKT				WIRE	LOAD	RPFA	KED	RDFA	(FD	LOAD	WIRE	T		c
NO.		LOAD DESCRIPTION	- 1	SIZE	KVA	AMP	P	AMP		KVA	SIZE		LOAD DESCRIPTION	, N
1	A	1F2. 5F3		*S	1.7	20	1 2	20	1	0.8	*8	X1	4 RECEPT.	
3	+	*****	-				-	20	1	0.6	*8		3 RECEPT.	
5	8	1F2, 5F3		*S	1.7	20	2	20	1	0.6	*8	Y1	3 RECEPT.	
7	-		-	_	-	-	-	20	1	0.4	*8	Y2	2 RECEPT.	
9		SURGE ARRESTOR	- 1	*0	0.1	20	2	20	1				SPARE	.
11	T	Description of the last of the		-	-	-	-	20	1				SPARE	-
13		SPARE			1	20	2	20	1	0.3	12	-	LGT, RECEPT. IN CABINET	
15	Т			-	-	-	-	20	1	0.4	12		CABINET HEATER	
17	1	SPACE					1	20	1	0.1	12	1	LGT CONTROL	

ONE-LINE DIAGRAM NOTES

- AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING, ALL EQUIPMENT BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
- 2. ALL FUSES FROM 0 AMPERE TO 200 AMPERE SHALL BE DUAL ELEMENT, CLASS RK-5 UNLESS NOTED OTHERWISE







4

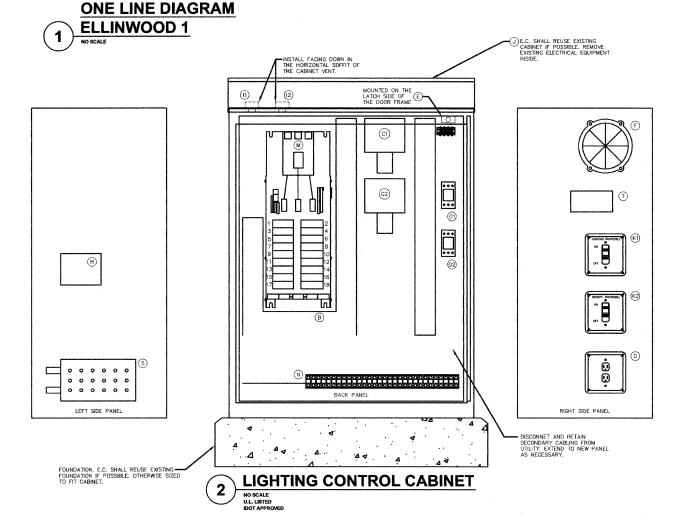
LIGHTING CONTROL ELEMENTARY DIAGRAM

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.



ITEM 🕖	QUANTITY	DESCRIPTION					
B 1		BRANCH CIRCUIT PANEL INTERIOR, 100A COPPER BUS, 240/120 VOLT, MCLDED CASE THERMAL MAGNETIC CIRCUIT BREAKERS, BOLT ON TYPE, AIC RATING OF 14,000 AMPS AT 240 VOLTS. SQUARE D 1630-NGOLO, G.E. AQ, SIEMENS PI, OR CUTLER HAMMER PRIL.					
C1 C2	2	MECHANICAL CONTACTOR, 8 POLE, 30 AMP, 120V COIL, SQUARE D 8903-LGX40V02, G.E. CR360ML2, CUTLER HAMMER C306G, PROVIDE WITH TWO-WIRE CONTROL FOR PHOTOCELL INTERFACE.					
D	1 .	GET RECEPTIAGE 120V, 20A, SPECIFICATION, GRADE, NEMA 5-20R IN WEATHER-PROFE BOX WITH FLAP—TYPE COVER, HUBBELL GF35E2A WITH WE26 COVER, LENTON, PASS & SEXWOUR, OR COPPER. 20A SPOT MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED), 120 VOIL, 13 AMP CONTACTS, SURRED SOCKLITO, 6.E., OUTLER HAMMER, OR SIEMENS. 50 WATT LIGHT TRYLINE, VAPOR TIGHT WITH GLOBE AND GUARD AND MOUNTING BOX. LAMP PROVIDED WITH FIXTURE. VAPOR TIGHT WITH GLOBE AND GUARD AND MOUNTING BOX. LAMP PROVIDED WITH FIXTURE. SURGE ARRESTOR, BRACKET MOUNTED, 120/240 VOILT SERVICE, SOUARE D SOSAITS, G.E., CUILER HAMMER. PHOTOCELL, 120V, 1500 VA RATED, SINGLE PROLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. ULL LISTED. TORK 3500, PARAGON, OR INTERNAL INTERNAL.					
E	1						
F	1						
н	1						
11 12	2						
J	1	E.C. SHALL REUSE EXISTING CABINET IF POSSIBLE. ENCLOSURE PAD MOUNTED, STANLESS STEEL, N.E.M.A. 4 CONSTRUCTION WITH KEY LOCKING DOOR, KEY CYLINDER SHALL MATCH EXISTING VILLAGE LIGHTING CONTROLLER LOCKS. HOFFMAN, OR APPROVED EQUAL. 30"W, 48"H, 18"D					
K1 K2	2	TOGGLE SWITCH, SPDT, 20 AMP, 240 VOLT, SPECIFICATION GRADE MOUNTED IN SURFACE BOX. HUBBELL HBLI221, LEVITON 1221-2, PASS & SEYMOUR PS20AC1, OR COOPER 2221.					
М	1	MAIN CIRCUIT BREAKER, MOLDED CASE THERMAL MAGNETIC, SERVICE ENTRANCE DUTY RATED 240 VOLT, 100 AMP, 2 POLE, AIC RATING OF 14,000 AMPS AT 240 VOLTS. INTEGRAL TO BRANCH PANEL.					
N	1	COPPER LOAD TERMINAL BLOCK FOR AWG#6 AND AWG#12					
01 02	2	FORM TYPE C RELAY, ELECTRICALLY HELD, ONE NORMALLY OPEN (N.O.) AND ONE NORMALLY CLOSED (N.C.) CONTACTS, 800Y CONTINUOUS DUTY COIL, 30 AMP CONTACT RATING, SQUARE D CLASS 8501, G.E., OR CUTLER HAMMER.					
Т	1	THERMOSTAT, 40-80 DEGREE RANGE. CHROMALOX WR80, TRANE, MODINE, OR REZNOR.					
s	1	HEATER, 120 VOLT, 375 WATT, 40-80 DEGREE THERMOSTAT. CHROMALOX 276-10, TRANE, MODINE, OR REZNOR.					

BILL OF MATERIALS



ILLINOIS DEPARTMENT OF TRANSPORTATION

E7: ONE LINE DIAGRAM & SCHEDULES PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC. Consulting Engineers & Surveyors 850 Forest Edge Drive Vernon Hills, II. 60061 (847) 478-9700 (847) 478-9701 Fax

DES PLAINES LIGHTING IMPROVEMENTS AND STREETSCAPE DES PLAINES, ILLINOIS

SCALE: NTS DATE: 8-14-2009

DRAWN BY: JOP DESIGNED BY: MCK CHECKED BY: MCK