



LOAD TABLE PROPOSED LIGHTING CONTROLLER

CIRCUIT	AMPS	VA
1	0.66	160
2	1.0	240
3	0.66	160
4	0.5	120
5	2.3	560
6	-	-
7	2.3	560
8	-	-
9	2.3	560
10	0.83	200
11	2.3	560
12	0.83	200
13	2.9	700
14	-	-
15	2.9	700
16	-	-
TOTAL	19.48	4720

BILL OF MATERIALS

ITEM	QTY.	DESCRIPTION
(A)	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240V, 100 AMP FRAME & 60A TRIP, INTERRUPTING RATING OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPS AT 240V
(B)	1	BRACKET MOUNTED SURGE ARRESTOR FOR 120/240V, 3W SERVICE
(C)	1	PANELBOARD INTERIOR ONLY, 120/240V, SINGLE PHASE, WITH 100A COPPER BUS, (2) 1P-20A AND (7) 2P-20A BOLT-ON BRANCH CIRCUIT BREAKERS EACH RATING NOT LESS THAN 22,000 RMS AMPERES AT 240V
(D)	1	CONTROL RELAY WITH CONTACTS RATED FOR CONTACTOR IN RUSH CURRENT
(E)	1	TWO-POSITION TEST SWITCH
(F)	1	MICRO-SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(G)	1	60W, VAPORTIGHT INCANDESCENT LIGHTING FIXTURE WITH GLOBE, GUARD, AND MOUNTING BOX
(H)	1	GFI RECEPTACLE, 120V, 20A, PREMIUM SPEC, GRADE, NEMA 5-15R IN WP BOX WITH FLAP TYPE COVER
(J)	1	PHOTOELECTRIC CELL MOUNTED ON THE TOP OF LIGHTING CONTROL CABINET FACING NORTH-EAST SKY AND SHIELDED FROM ADJACENT LIGHTS
(K)	1	GROUND BUS, 1/4"x1"x12" WITH LUGS & SPARE LUGS
(L)	1	NEUTRAL BUS, 1/4"x1"x12" WITH LUGS & SPARE LUGS
(M)	3	COPPER-CLAD GROUND ROD, 5/8"x10'
(N)	1	FNQR-5 AND FUSE BLOCK
(P)	1	100A SOCKET FOR ELECTRIC UTILITY COMPANY METER
(R)	1	MULTIPOLE LIGHTING CONTACTOR, 30A FIELD-CONVERTIBLE CONTACTS, 10 N.O. CONTACTS, 120V COIL, SQUARE D CAT. NO. 8903L082V02

NOTES:

- POWER WIRING RHH/RHW CONTROL WIRING #12 HTW.
- GROUND BUS CONNECTOR SCREWS ARE PAINTED GREEN. NEUTRAL BUS CONNECTOR SCREWS ARE PAINTED WHITE.
- THE CONTROLLER WILL BE SUITABLE FOR USE AS SERVICE EQUIPMENT PER NEC 230.66.
- LOAD IS BASED ON THE FOLLOWING:
70W, HPS LUMINAIRE: 80W, 0.33A @ 240V.
250W, HPS LUMINAIRE: 280W, 1.167A @ 240V.

FILE NAME = DI-ght-elec05.dgn	USER NAME = JMidlet	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 04/09/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD RD PEDESTRIAN UNDERPASS
LIGHTING CONTROLLER WIRING DIAGRAM

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

F.A.U. RTE. 1257	SECTION 08-00083-00-BT	COUNTY LAKE	TOTAL SHEETS 51	SHEET NO. 19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63450	