

RECEIVED
MAY 02 2018
1738 E SUNSHINE DRIVE #17
SPRINGFIELD, MO

- PHOTO DIODE SENSOR**
- a) **LOCATION/MOUNTING**
 - A PHOTO DIODE SENSOR SHALL BE MOUNTED IN A WATERTIGHT ENCLOSURE ON THE NORTHERN MOST SIDE OF THE BUILDING.
 - THE PHOTO DIODE MUST BE MOUNTED IN THE PROPER ORIENTATION, THE WATERTIGHT ENCLOSURE SHALL BE MOUNTED USING THE APPROPRIATE WALL ANCHORS. ANY EXTERIOR WALL PENETRATION SHALL BE SEALED PROPERLY WITH WEGEK/KAULK/SILICON.
 - b) **CONNECTIONS**
 - THE PHOTO DIODE LEADS MUST BE EXTENDED USING 18-24 SHIELDED TWISTED PAIR CABLE, AND ROUTED BACK TO THE LCA/LCP TERMINALS. TERMINALS ARE POLARITY SENSITIVE.

LCP-2 (LOAD CONTROL PANEL) NOT APPLICABLE FOR SITES CONTAINING EXISTING SMART LIGHTING CONTROLS

- a) **LOCATION/MOUNTING**
 - (1) LCP-2 SHALL BE MOUNTED WITHIN THE ELECTRICAL ROOM
 - (2) LCP-2 SHALL BE MOUNTED USING APPROPRIATE WALL ANCHORS.
- b) **POWER REQUIREMENTS**
 - THE 120 VAC POWER SOURCE FOR THE LCP-2 MUST BE OBTAINED FROM A DEDICATED 20 AMP SINGLE POLE BREAKER.
 - HIGH VOLTAGE KNOCKOUTS FOR THE LCP-2 ARE LOCATED ON THE SIDE/BOTTOM OF THE CABINET ENCLOSURE. WHEN USING SIDE KNOCKOUTS THE INSTALLER SHALL ONLY UTILIZE KNOCKOUTS BELOW THE GROUNDING BAR WITHIN LCP-2 CABINET.
 - LOW VOLTAGE KNOCKOUTS FOR THE LCP-2 ARE LOCATED ON THE TOP OF THE CABINET ENCLOSURE.
- c) **CONNECTIONS**
 - THE LCP-2 SHALL CONTROL THE FOLLOWING:
 - EXTERIOR SIGNS AND BUILDING LIGHTING
 - EXTERIOR PARKING LOT LIGHTS
 - INTERIOR LIGHTING
 - THE LIGHTING ZONES SHALL BE SEPARATED PER THE SOW.
 - LINE AND LOAD WIRING SHALL BE ROUTED FROM ELECTRICAL PANEL CONTAINING THE CIRCUITS TO BE CONTROLLED BACK TO THE LCP-2. SINCE THE LCP-2 DOES NOT REQUIRE NEUTRAL WIRES, LINE AND LOAD WIRING MUST ENTER AND EXIT THE LCP-2 THROUGH THE SAME CONDUIT. LINE SIDE WIRING IS ON THE LEFT SIDE OF THE CONTACTORS AND LOAD WIRING IS ON THE RIGHT SIDE OF THE CONTACTORS.
 - DO NOT BREACH CONDUIT WIRING CAPACITY, AND INSTALL ADDITIONAL CONDUIT IF NEEDED TO CONTAIN LINE AND LOAD PAIRS.
- d) **COMMUNICATION**
 - RS-485 CONNECTIONS SHALL BE OBTAINED USING THE A+/B- TERMINALS USING RS-485 CABLE WIRING BACK TO AN OPEN CHAIN OF THE HUB.
- e) **LABELING**
 - THE LCP-2 SHALL BE LABELED PER POWER SOURCE. THE LABEL SHALL BE APPLIED TO THE FRONT CABINET DOOR.

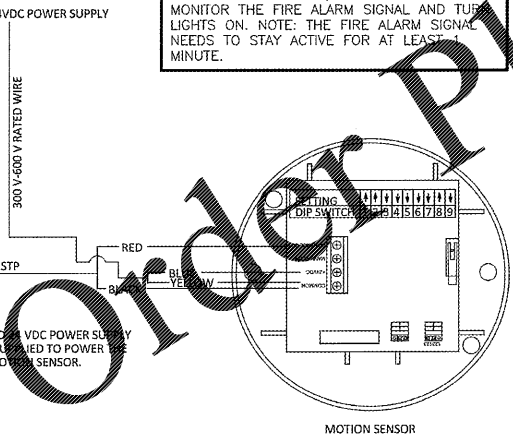
Contactor	Terminal	Circuit	Load Description
K1	81/82	120V VAC	Work/Stock Room Lights
	83/84	120V VAC	
	85/86	120V VAC	
K2	87/88	120V VAC	Sales Lights
	89/90	120V VAC	
	91/92	120V VAC	
K3	93/94	120V VAC	Signs (Building and Post)
	95/96	120V VAC	
	97/98	120V VAC	
K4	99/100	120V VAC	Exterior Lighting
	101/102	120V VAC	
	103/104	120V VAC	
K5	105/106	120V VAC	Spare
	107/108	120V VAC	
	109/110	120V VAC	
K6	111/112	120V VAC	Spare
	113/114	120V VAC	
	115/116	120V VAC	

FOR ANY SITES THAT REQUIRE MORE THAN 6 CONTACTORS A SECOND LCP-2 WILL BE REQUIRED.

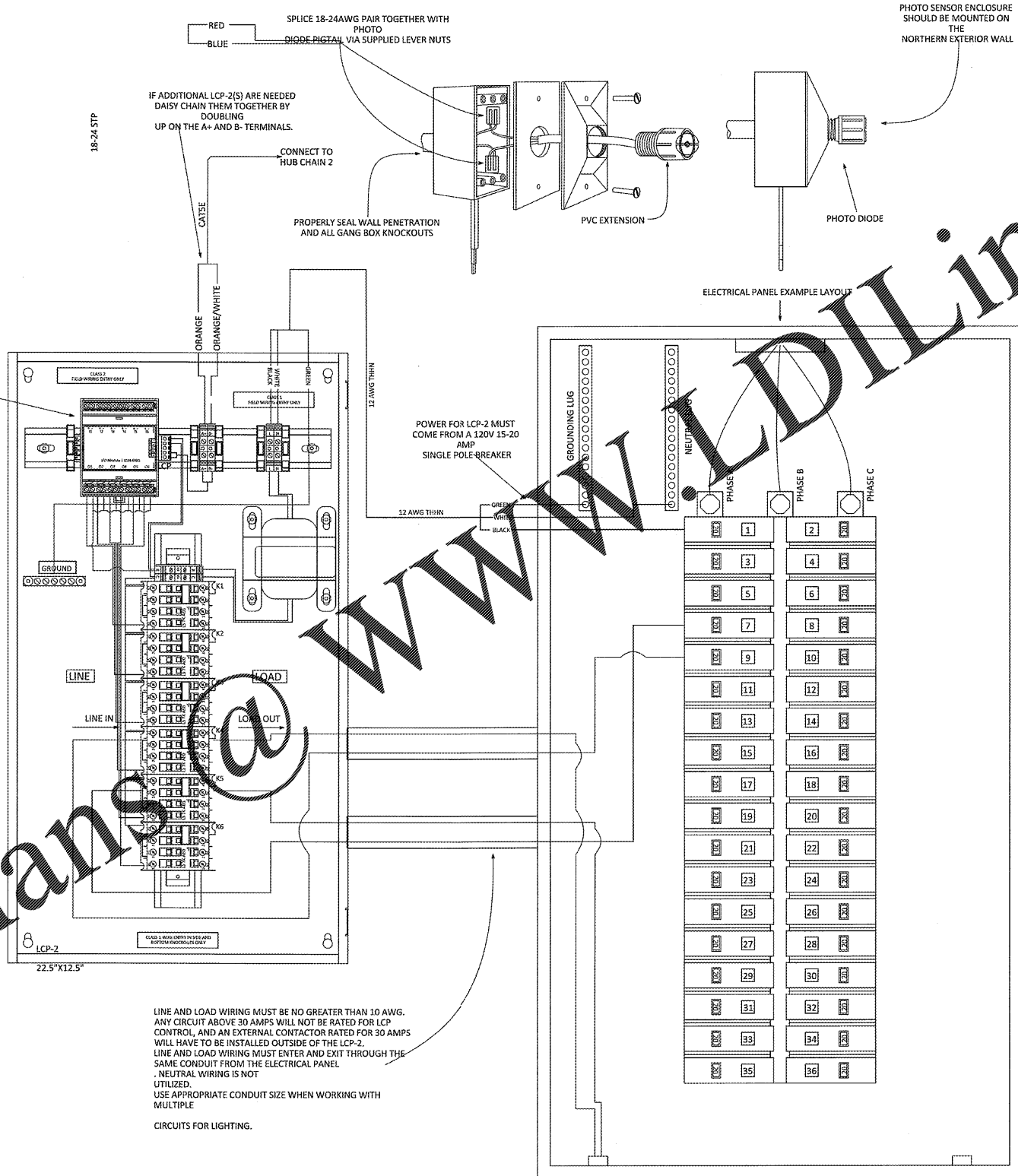
FIRE ALARM COORDINATION PER NFPA 2015

IF THE LCP IS OFF, THEN ALL THE LIGHTS WILL TURN ON. IF THE LCP IS ON AND THE FIRE ALARM TRIGGERS, THEN GRIDPOINT WILL MONITOR THE FIRE ALARM SIGNAL AND TURN THE LIGHTS ON. NOTE: THE FIRE ALARM SIGNAL NEEDS TO STAY ACTIVE FOR AT LEAST 1 MINUTE.

HOMERUN TO 24VDC POWER SUPPLY



MOTION SENSOR
MOUNT SENSOR AT 12' AFF. THE COVERAGE AREA AT THIS HEIGHT IS 26'.



LINE AND LOAD WIRING MUST BE NO GREATER THAN 10 AWG. ANY CIRCUIT ABOVE 30 AMPS WILL NOT BE RATED FOR LCP CONTROL, AND AN EXTERNAL CONTACTOR RATED FOR 30 AMPS WILL HAVE TO BE INSTALLED OUTSIDE OF THE LCP-2. LINE AND LOAD WIRING MUST ENTER AND EXIT THROUGH THE SAME CONDUIT FROM THE ELECTRICAL PANEL. NEUTRAL WIRING IS NOT UTILIZED. USE APPROPRIATE CONDUIT SIZE WHEN WORKING WITH MULTIPLE CIRCUITS FOR LIGHTING.

GRIDPOINT CONTACT
PLEASE CONTACT GRIDPOINT INSTALLATION MANAGEMENT @ 866-800-8906 FOR INSTALLATION CONTACT BASED ON THE STORE LOCATION. EMAIL: SUPPORT@GRIDPOINT.COM

O'REILLY PREFERRED ONE LINE DIAGRAM
5305 VALLEY PARK DRIVE SUITE # 2 - ROANOKE, VA - 24001

PRINTS ARE FOR:	<input checked="" type="checkbox"/> DESIGN	<input type="checkbox"/> REVIEW	<input type="checkbox"/> PERMIT	<input checked="" type="checkbox"/> BIDDING	<input type="checkbox"/> CONSTRUCTION
REVISIONS	DESCRIPTION:	DATE:	BY:		
SHEET TITLE: LIGHTING CONTROL AND MOTION SENSOR					
FILE NAME: O'REILLY PREFERRED ONE LINE DIAGRAM					
DATE: 9/14/2018			DRAWN BY: DAVID COLWELL		
SHEET NO:					

EM 1.1

DESIGN BY OTHERS FOR REFERENCE ONLY

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COMM # 4308
DATE: 05-03-19
REVISION DATE: