



LEVITON
Applications Cookbook
National Accounts: Retail
Version 1.0

FOR REFERENCE ONLY

NATIONAL ACCOUNTS: RETAIL COOKBOOK NOTES



1. Refer to manufacturer's data sheets and installation instructions prior to installation
2. Line feed 120/230/277 VAC, 60 Hz
3. Ground not shown, ground devices per applicable national and local codes are best practices
4. For emergency power situations, illustrations assume transfer switch by others upstream of shown devices
5. Line voltage load not to exceed contact rating per device specifications
6. Power packs receiving separate feeds for switched loads and self power must have both feeds on the same phase
7. All low voltage devices consume current. Device power budget is estimated for these details—additional power sources may be required. See product literature for power specifications
8. Maximum run length for analog wiring is 1000' @ #18 AWC
9. Sensors wired in parallel will cause line voltage relay closure when occupancy is detected by any unit
10. Devices in series requiring contact closure from a single device (clock input, demand response, emergency, etc.) must follow these wiring conventions:
 - First device in sequence provides the +V to the triggering relay
 - Signal from closure attached to all devices in sequence input
 - Com from first device in sequence attached to com on all devices in sequence
11. Ultrasonic ceiling mount sensors should be located a minimum of six (6) feet from HVAC supply/return vents
12. Trough-mounted and pendant-mounted indirect lighting sources affect the operation of locally mounted sensors. Contractor is responsible for adjusting sensor locations to allow for proper operation

13. Contractor is responsible for proper sensitivity and time delay settings for non-adaptive products, following the manufacturer's recommended placement, and field verification of circuits with respect to power pack placement
14. Contractor is responsible for coordinating the operational options of sensors and power packs with the specific work requirements
 - Work relevant energy code requirements affect circuits to be controlled and their control characteristics
 - One power pack is required for each controlled circuit
 - Refer to power pack data sheet for power output and installation guide for maximum number of sensors connected to a power pack
 - If multiple circuits are to be controlled by a sensor, auxiliary relays may be used in conjunction with a power pack
15. Ceiling sensors mounted over doorways should be placed one (1) foot inside the threshold
16. Up to 100 Mark VII style ballasts may be controlled per daylighting zone by IRC
17. All relays shown in de-energized state
18. Individually cap off unused leads
19. One-line parenthesis use:
 - (X) Function
 - [#] Terminal
20. Plug load control—commercial receptacle P/Ns:
 - STANDARD DUPLEX:
 - Split control (1 outlet) CR015-1Px, CR020-1Px
 - Full control (2 outlets) CR015-2Px, CR020-2Px
 - DECORA®:
 - Split control (1 outlet) 16252-1Px, 16352-1Px
 - Full control (2 outlets) 16252-2Px, 16352-2Px

ABBREVIATIONS:

LC	LumaCAN
LV	Low voltage
HV	High voltage switch (maintained)
LVM	Low voltage switch (momentary) Equal to Leviton 1081 (toggle) OR Leviton 56081 (Decora)
LVT	Low voltage switch (maintained) Equal to Leviton 12021-2 (toggle) or Leviton 56021-2 (Decora)
LV2	IRC low voltage switch
UON	Unless otherwise noted
BLK	Black
WHT	White
BLU	Blue
YEL	Yellow
ORG	Orange
VIO	Violet
BRN	Brown

SYMBOLS:

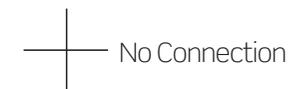


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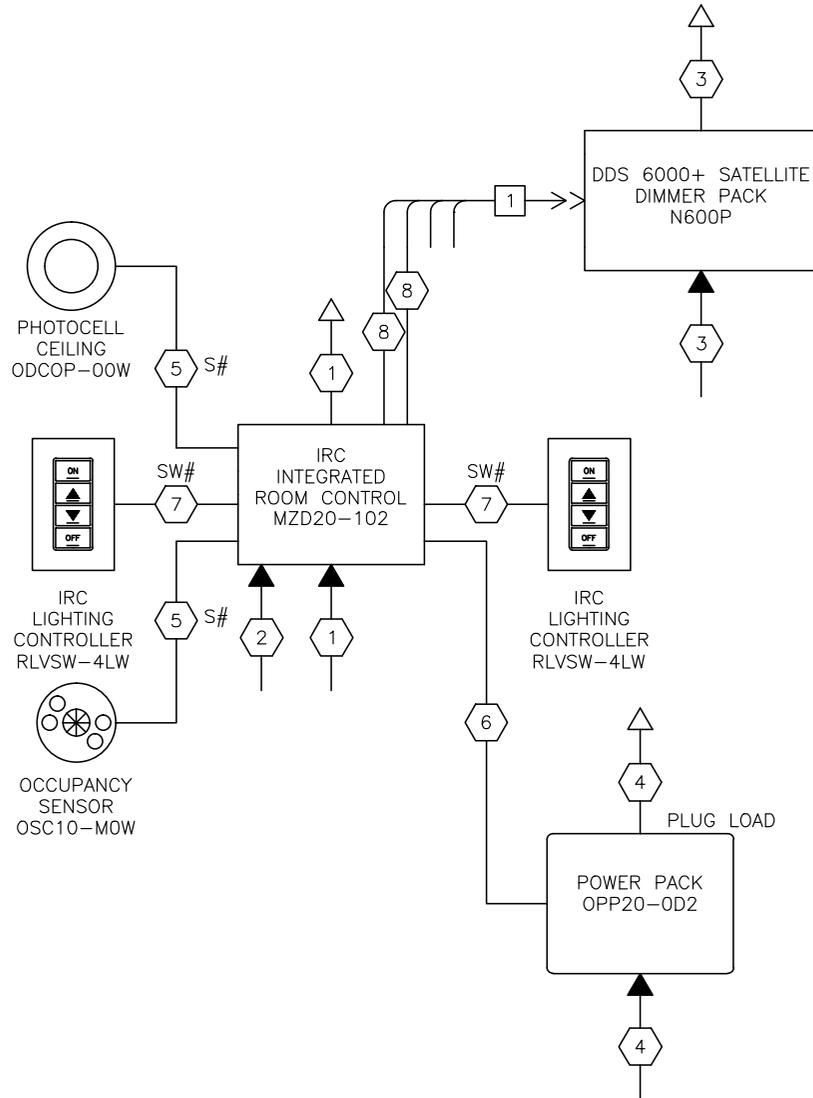


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IRC, DDS 6000 SATELLITE DIMMER PACK, PHOTOCELLS, OCCUPANCY SENSORS, POWER PACK

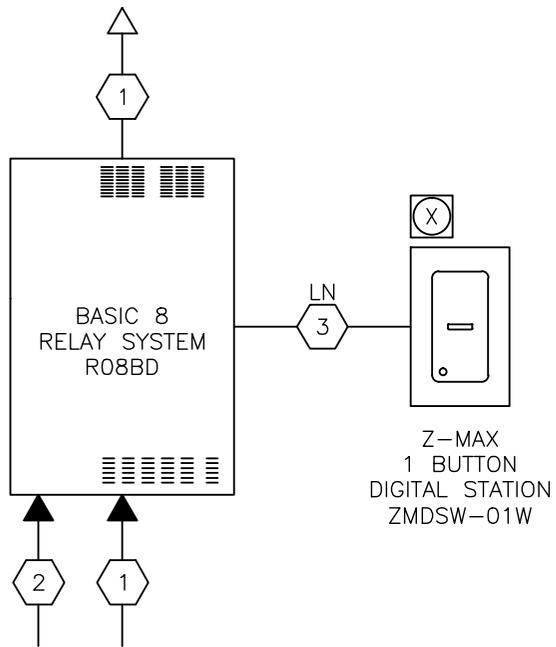


Daylighting and Receptacle Control



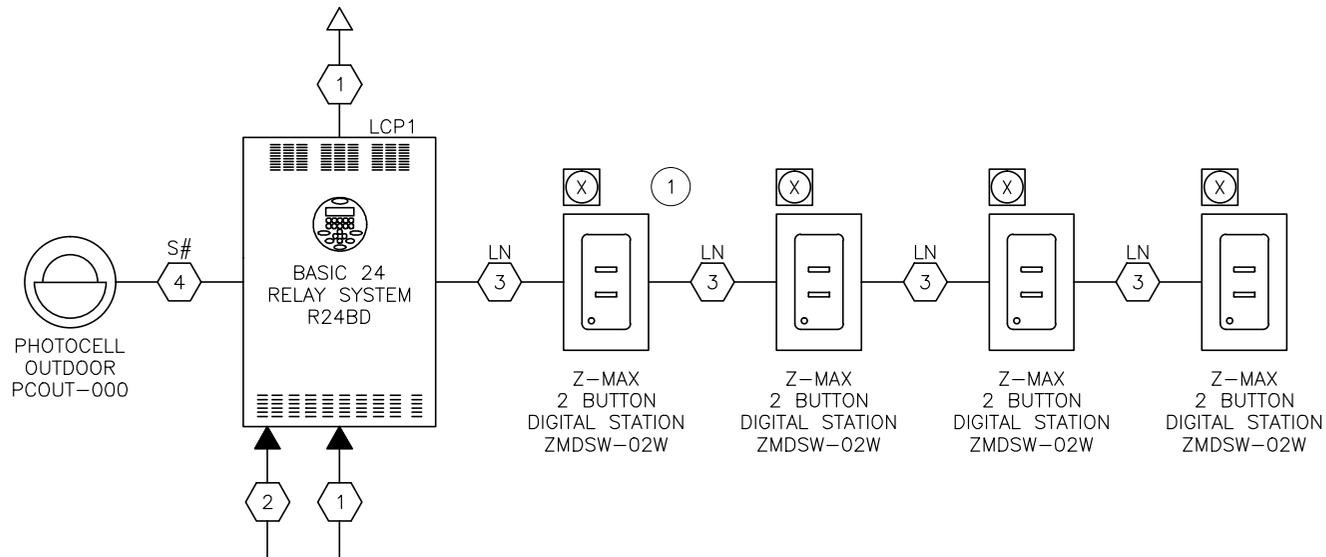
EZ-MAX, 1 BUTTON ZMDSW

Timer-Based Facility Control



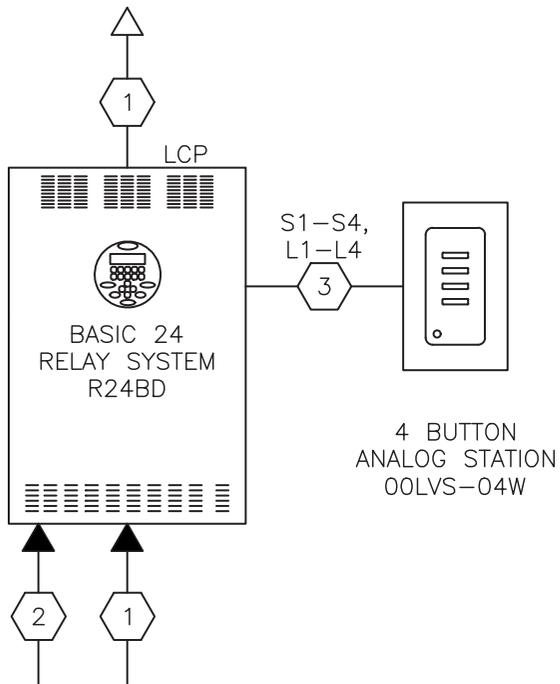
EZ-MAX, 2 BUTTON STATIONS, PHOTOCELLS

Timer and Manual Lighting Control with Daylighting

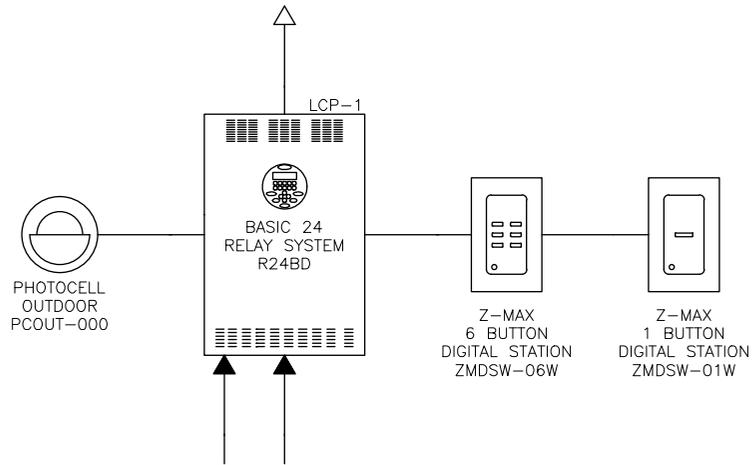


EZ-MAX, 4 BUTTON 00LVS

Timer and Manual Lighting Control

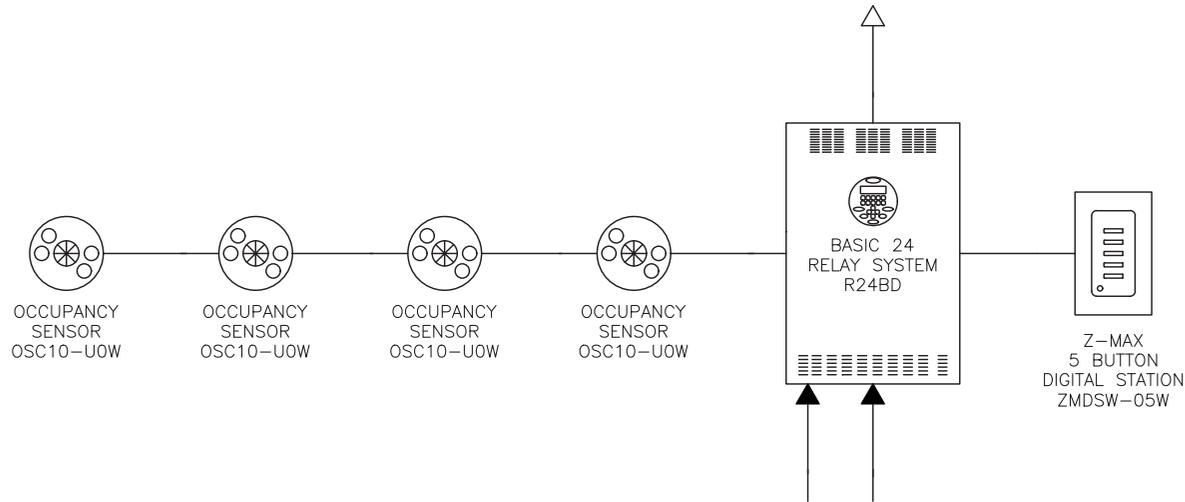


EZ-MAX, 1 AND 6 BUTTON STATIONS, PHOTOCELLS



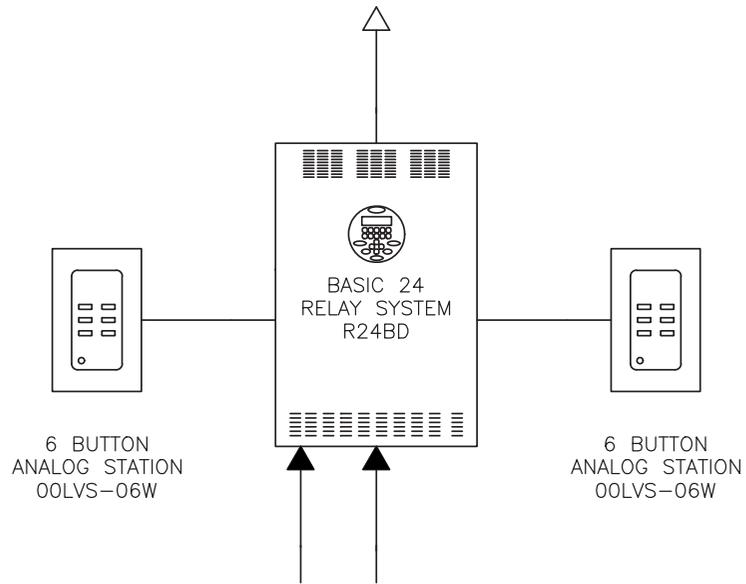
EZ-MAX, 5 BUTTON STATION, OCCUPANCY SENSORS

Timer, Occupancy and Manual Facility Lighting Control



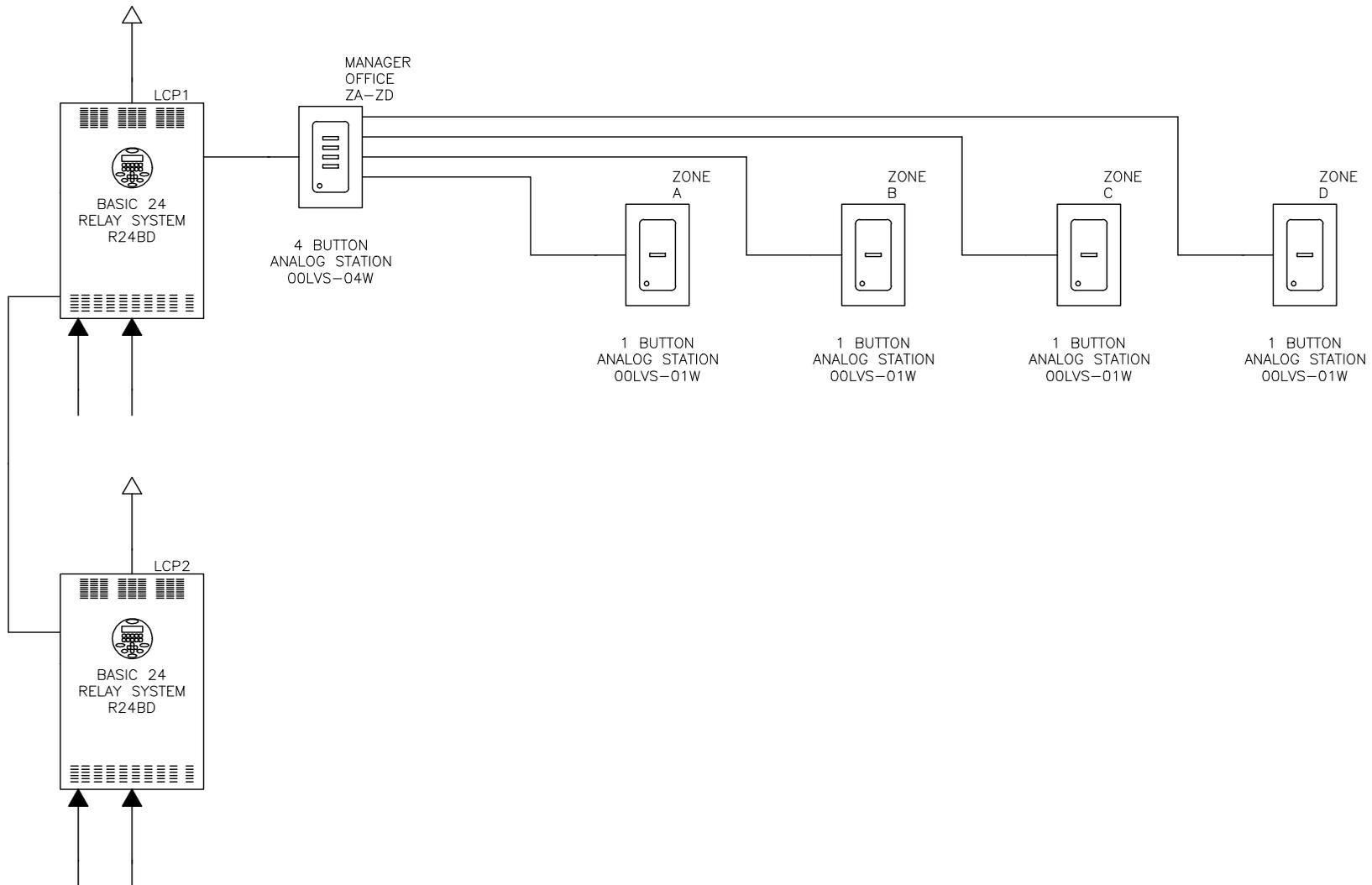
EZ-MAX, 2 6 BUTTON 00LVS STATIONS

Timer and Manual Facility Lighting Control



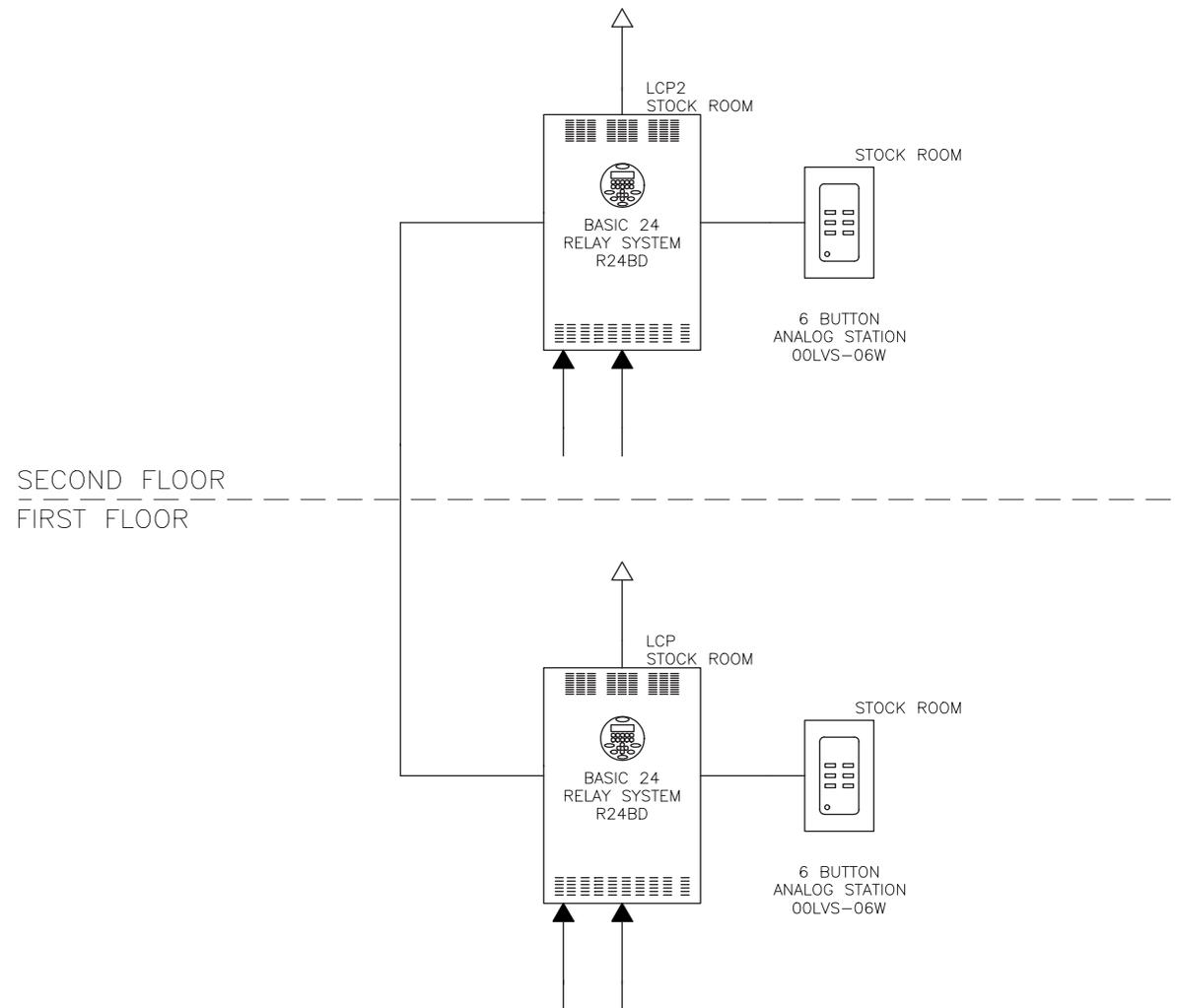
DUAL EZ-MAX, 1 AND 4 BUTTON STATIONS

Timer and Manual Facility Lighting Control



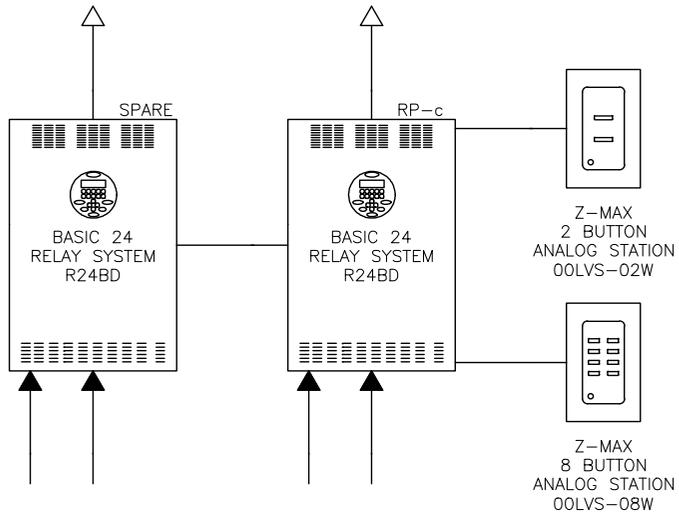
DUAL EZ-MAX, 6 BUTTON 00LVS

Timer and Manual Facility Lighting Control



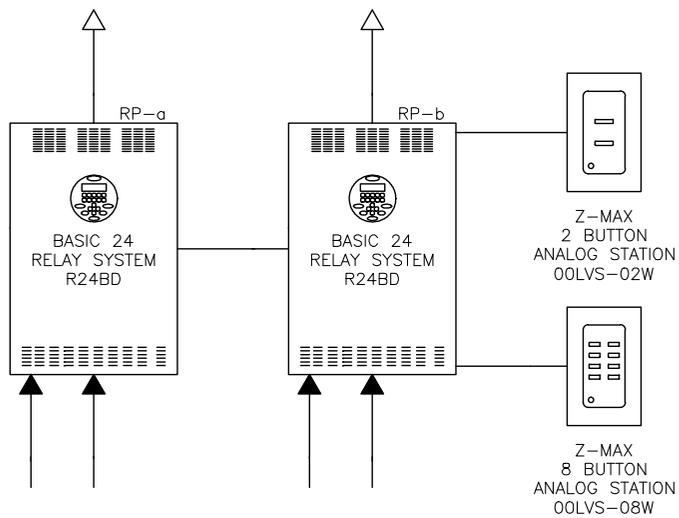
4 EZ-MAX RELAY PANELS, 2 AND 4 BUTTON 00LVS

Timer and Manual Facility Lighting Control



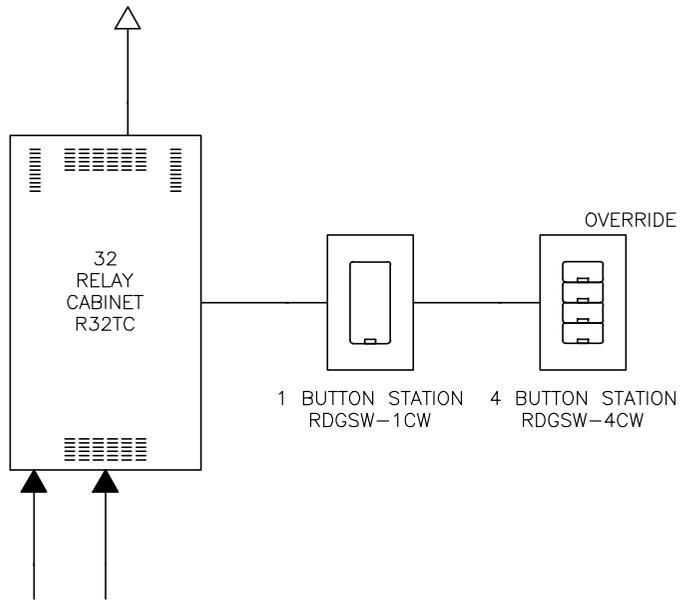
SECOND FLOOR

FIRST FLOOR



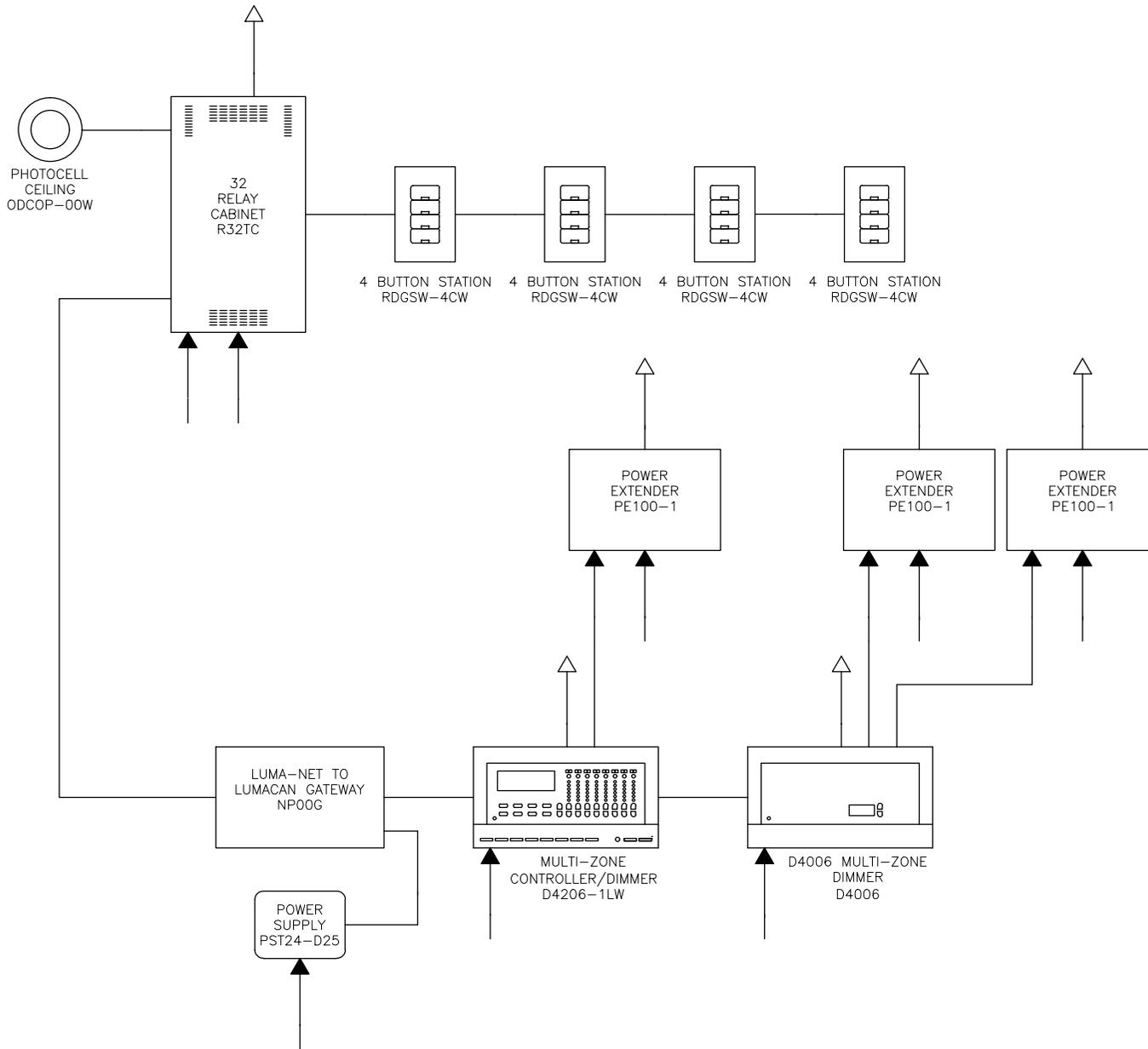
GREENMAX, 1 AND 4 BUTTON STATIONS

Timer and Manual Facility Lighting Control



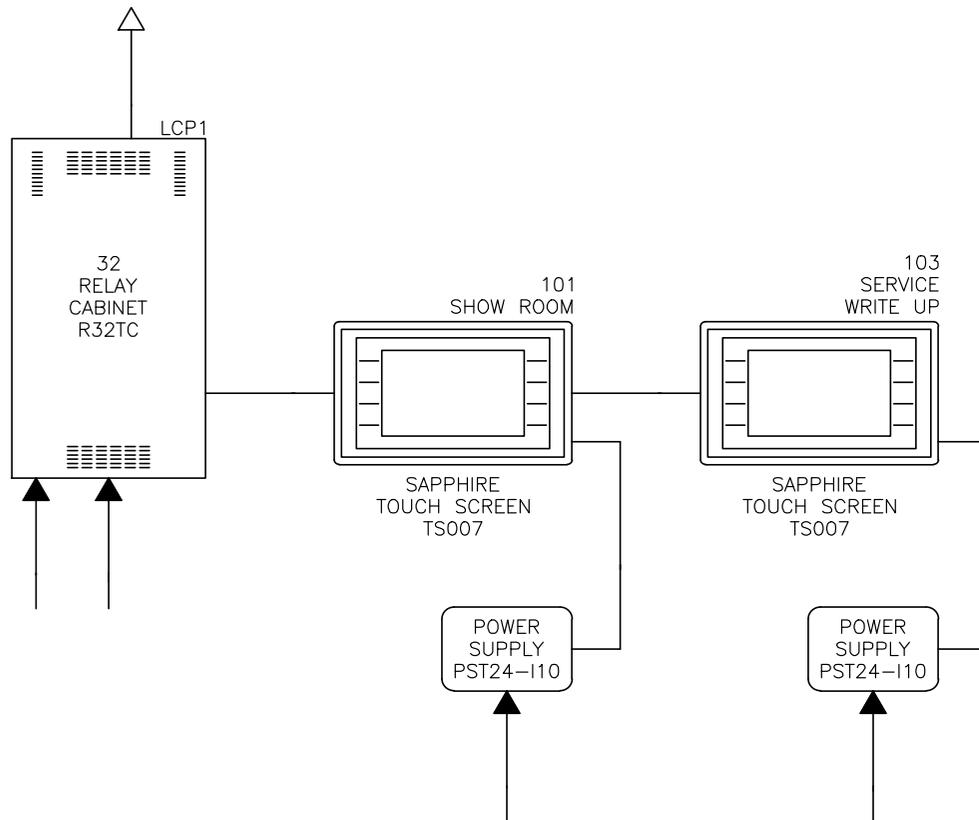
GREENMAX, D4206, D4006, GATEWAY, 4 BUTTON STATIONS, POWER EXTENDERS

Timer and Preset Lighting Control



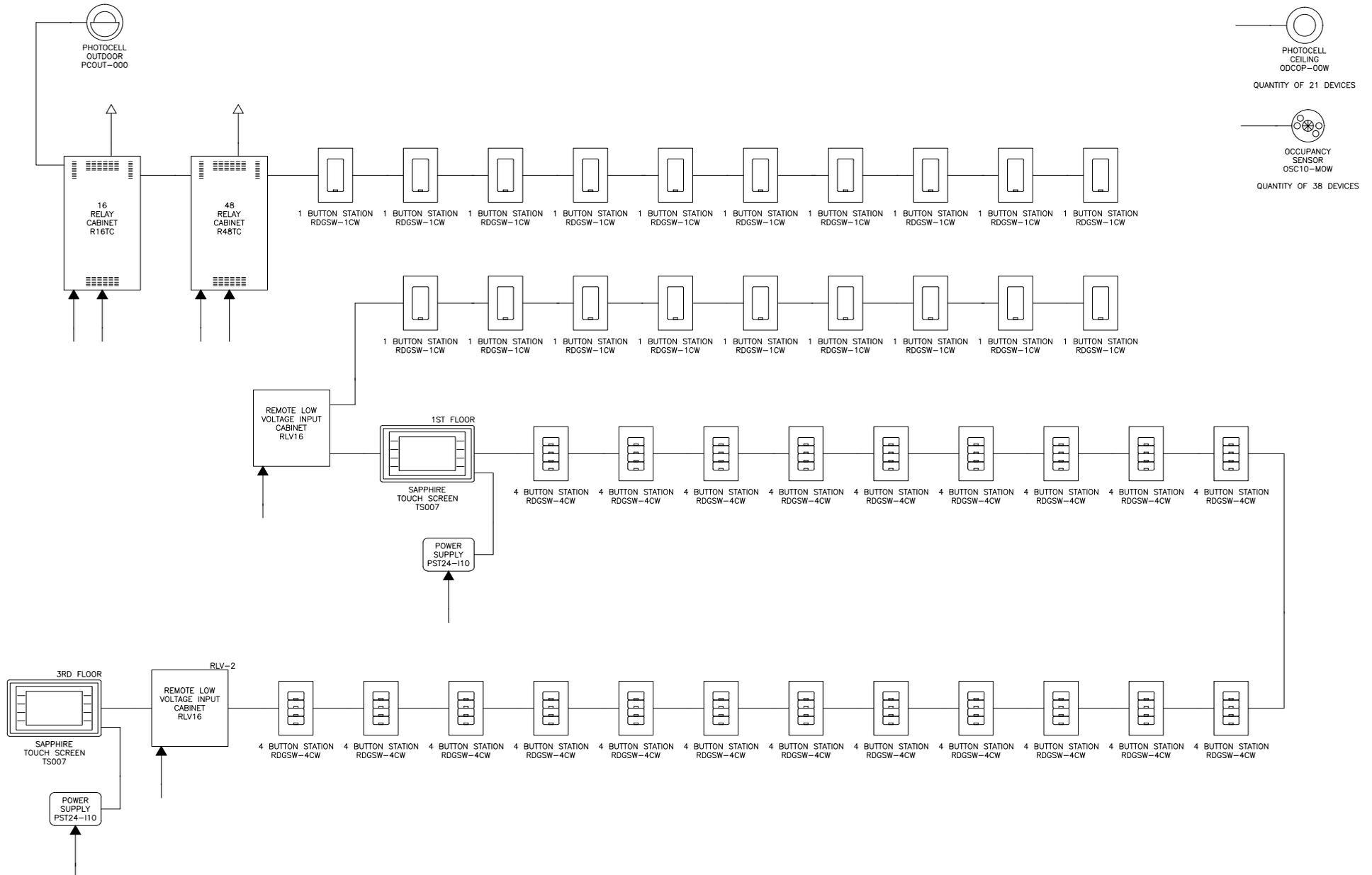
GREENMAX, SAPPHIRE, POWER SUPPLIES

Timer and Preset Facility Lighting Control



GREENMAX, SAPPHIRE, 1 AND 4 BUTTON STATIONS, PHOTOCELLS, OCCUPANCY SENSORS

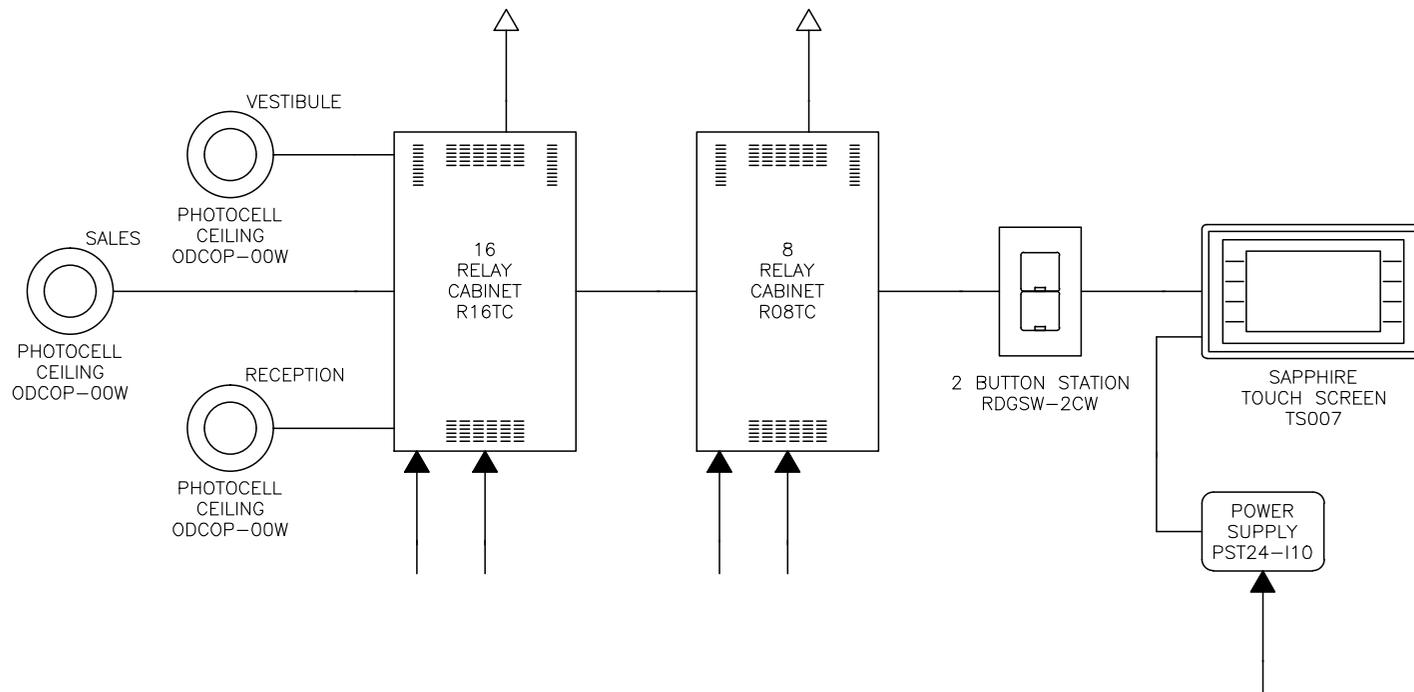
Facility Lighting Control with Daylighting



GREENMAX, SAPPHIRE, 2 BUTTON STATION, PHOTOCELLS, POWER SUPPLY

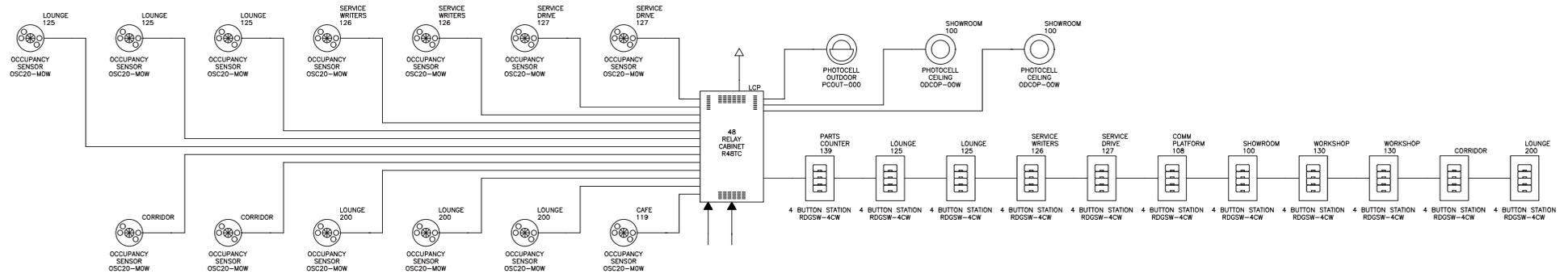


Timer and Preset Facility Lighting Control with Daylighting



GREENMAX, 4 BUTTON STATION, PHOTOCELLS, OCCUPANCY SENSORS

Facility Lighting Control with Daylighting

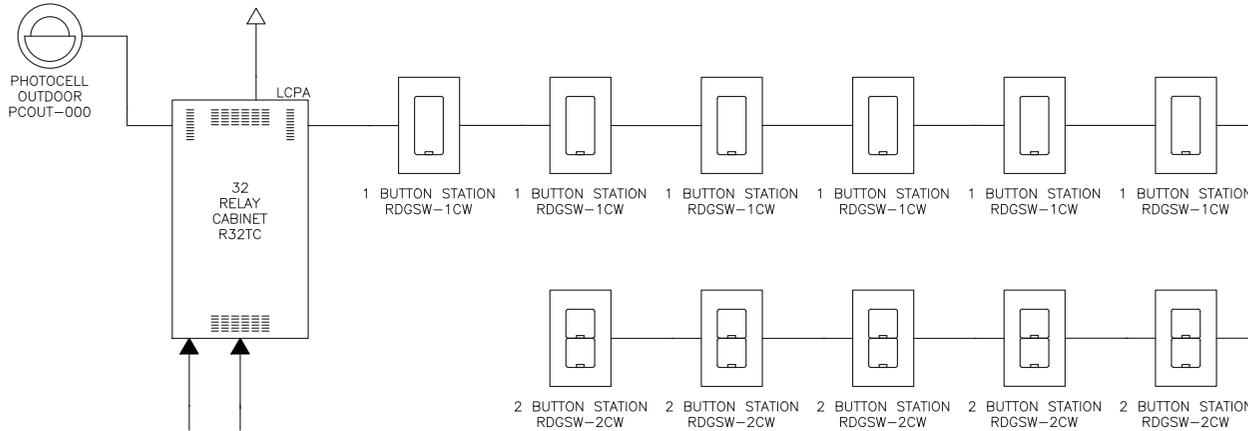


GREENMAX, 1/2/4 BUTTON STATIONS, PHOTOCELLS, OCCUPANCY SENSORS

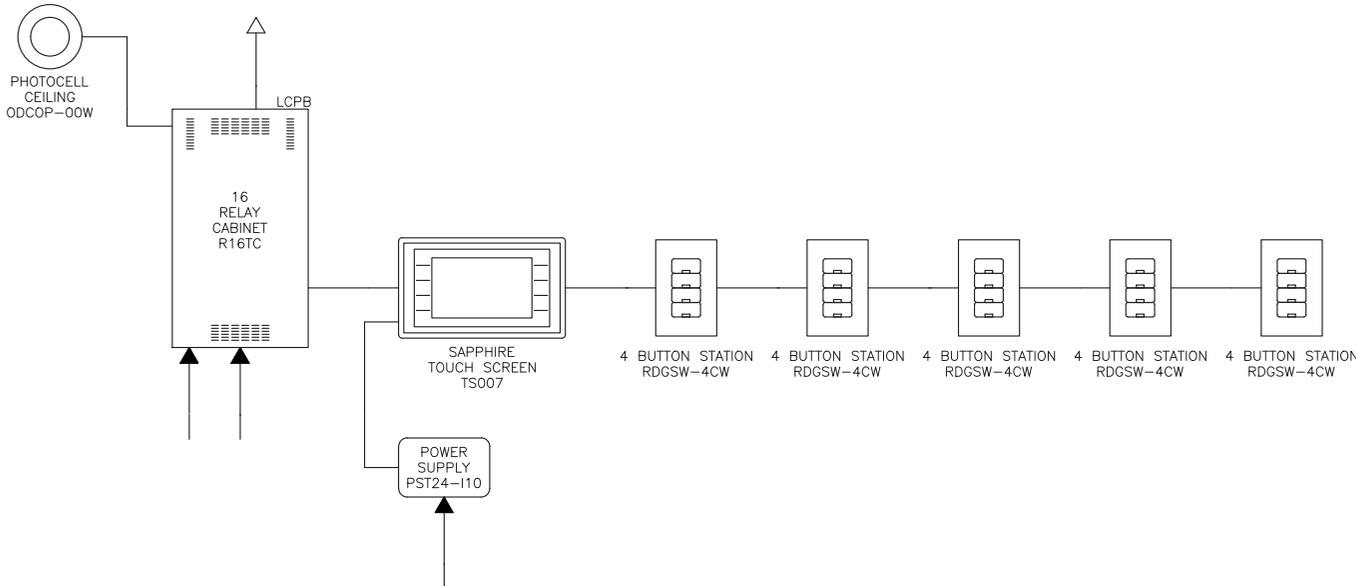


Facility Lighting Control with Daylighting

--- SALES/EXTERIOR ---

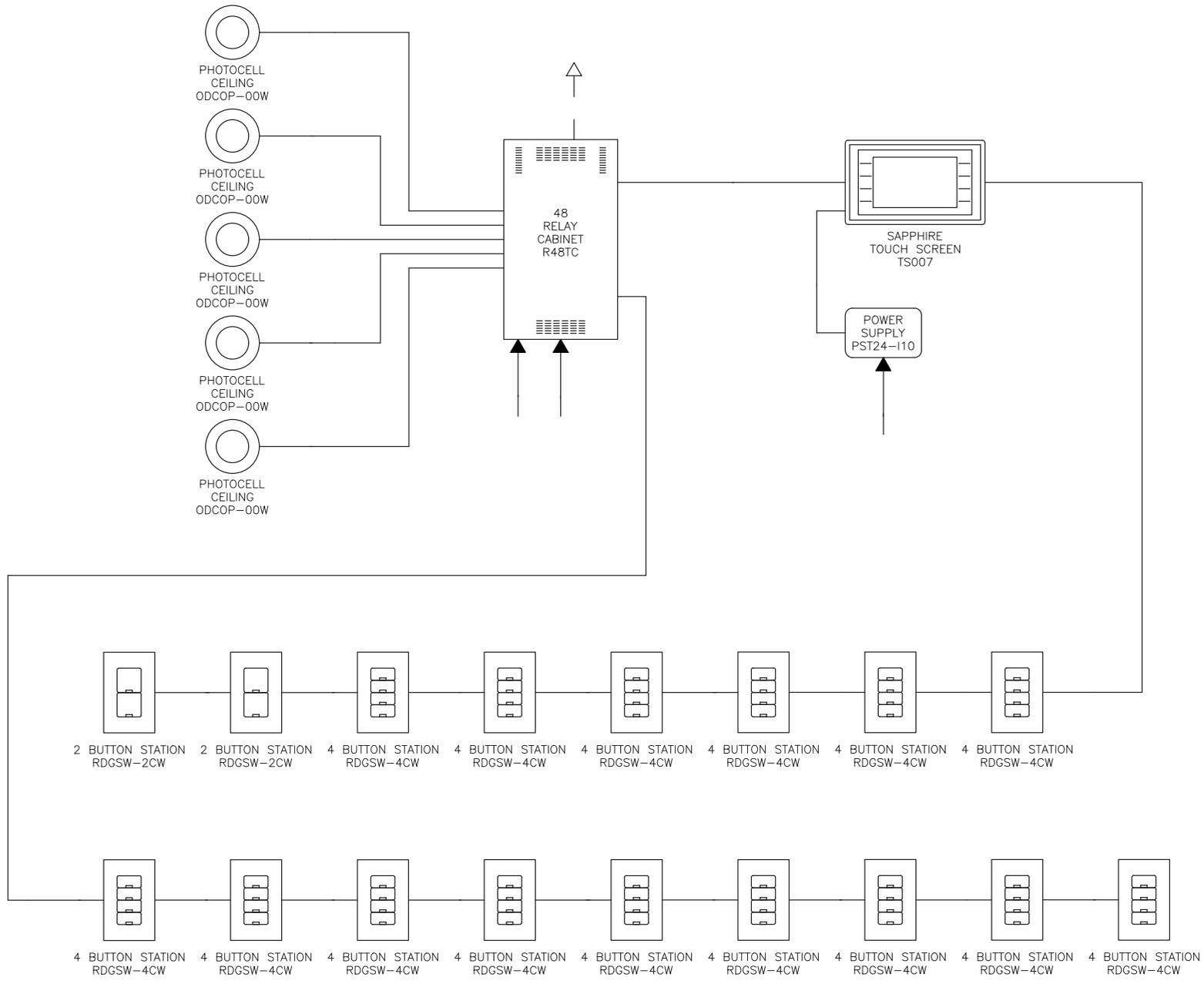


--- SALES - SHOWROOM ---



GREENMAX, SAPPHIRE, 2 AND 4 BUTTON STATIONS, PHOTOCELLS, POWER SUPPLY **LEVITON**

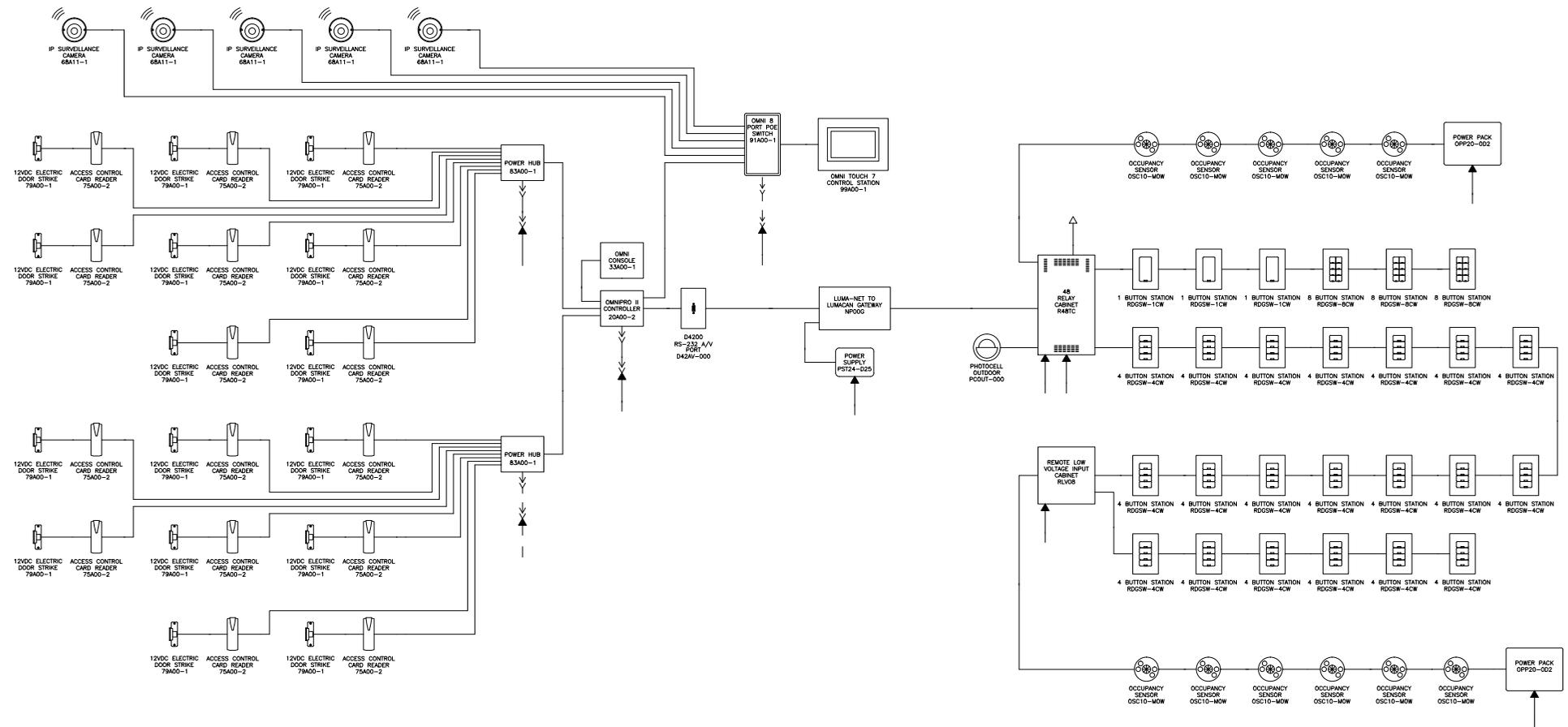
Facility Lighting Control with Daylighting



GREENMAX, OMNITOUCH, SECURITY ACCESS CONTROLS, PHOTOCELLS

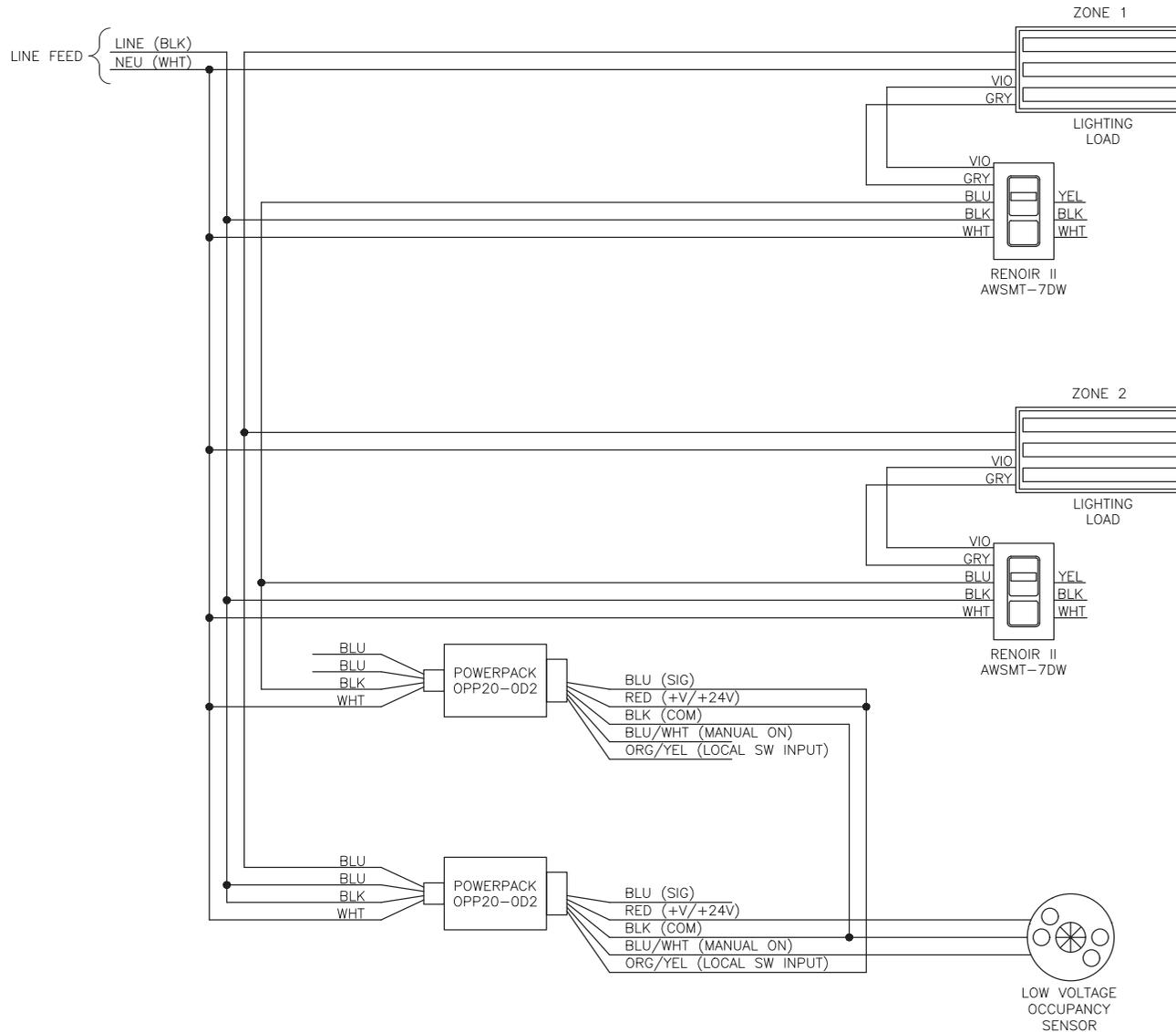


Facility Lighting Control



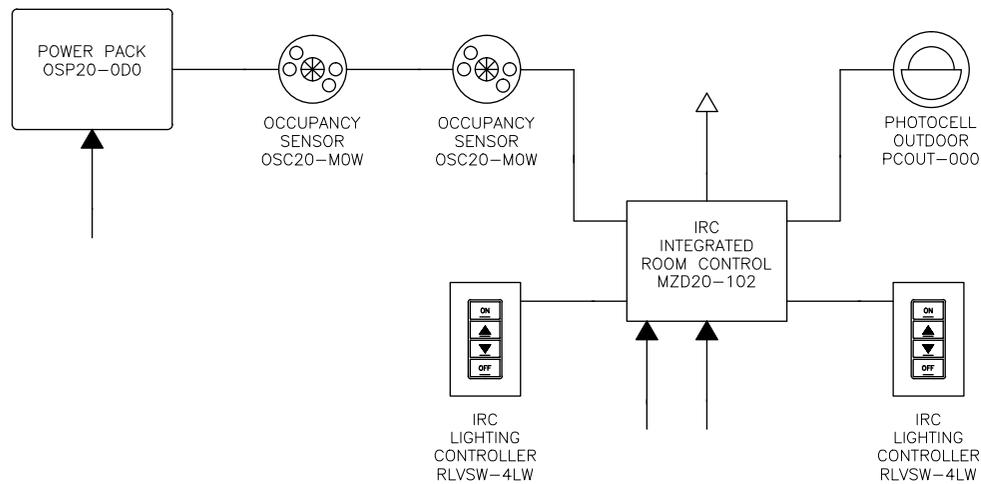
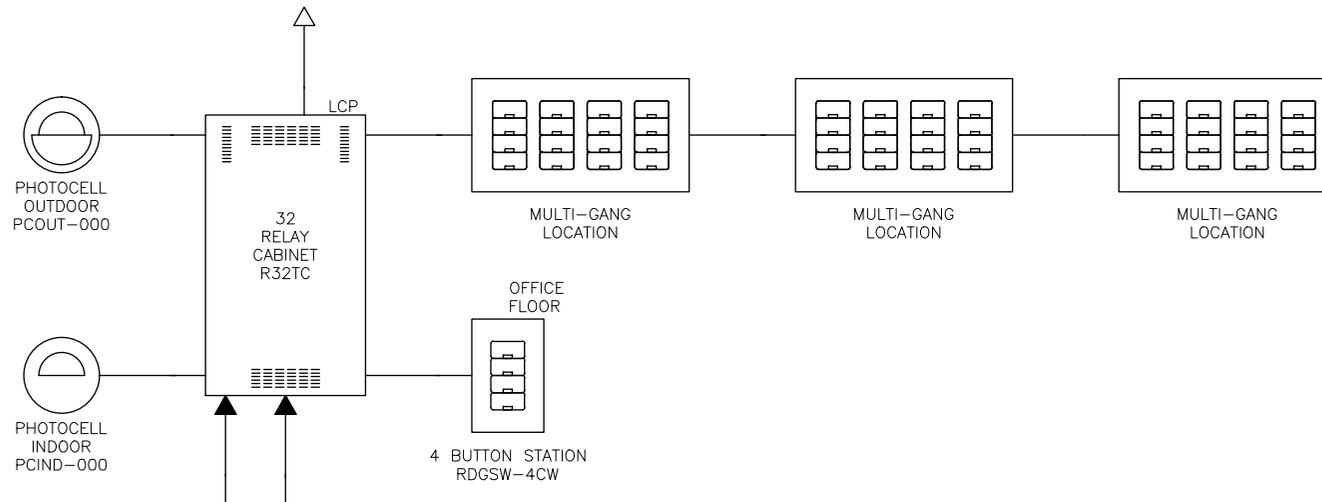
RENOIR II, OCCUPANCY SENSORS, POWER PACKS

Small Office Standalone Occupancy Control



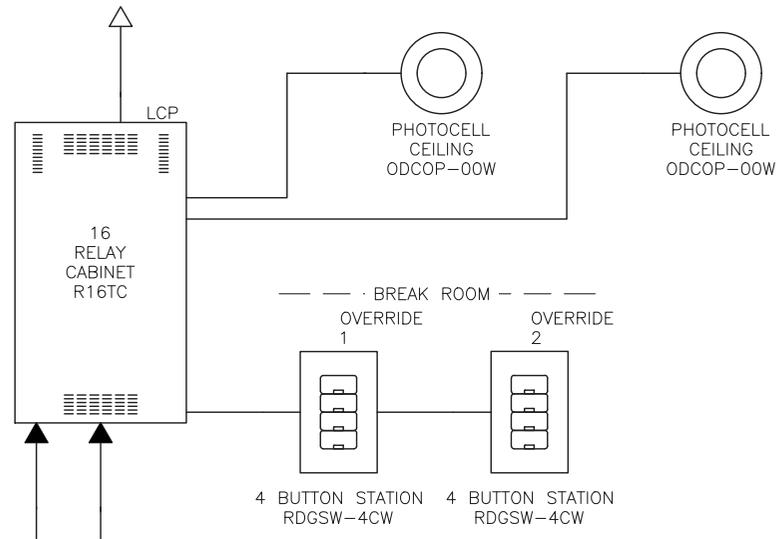
GREENMAX, IRC, 4 BUTTON AND MULTI-GANG STATIONS, PHOTOCELLS, OCCUPANCY SENSORS, POWER PACK

Facility Lighting Control with Daylighting



GREENMAX, 4 BUTTON STATIONS, PHOTOCELLS

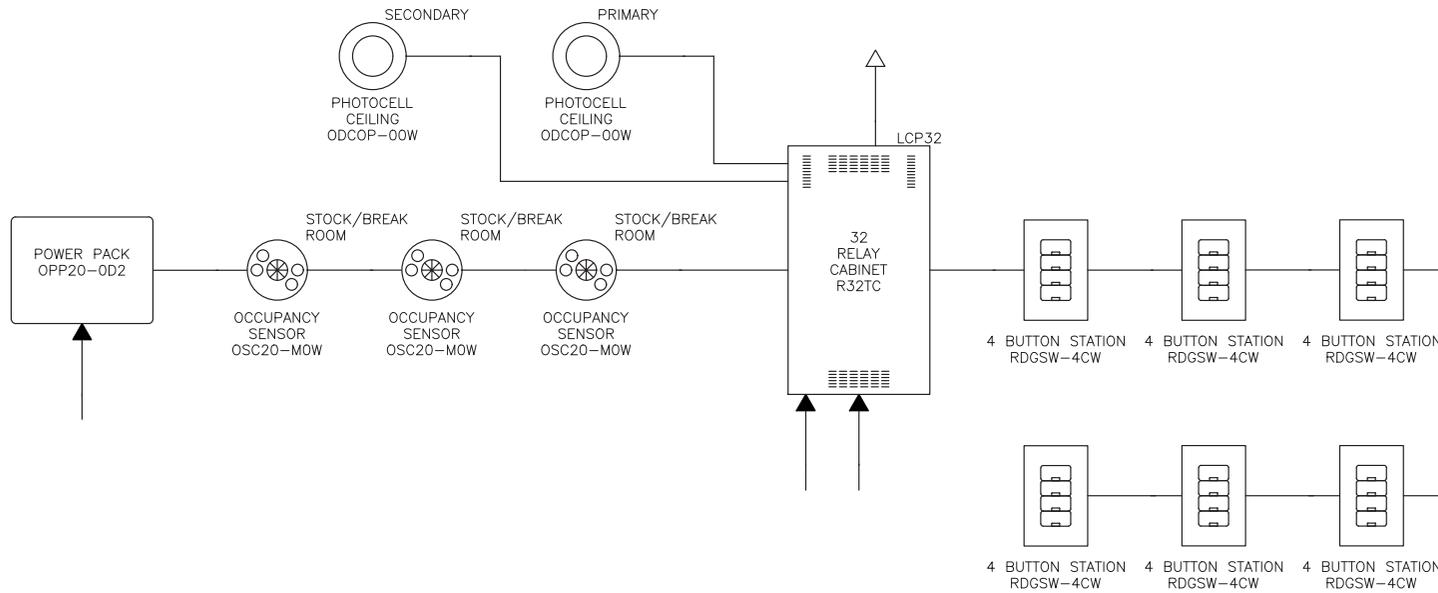
Facility Lighting Control with Daylighting



GREENMAX, 4 BUTTON STATIONS, PHOTOCELLS, OCCUPANCY SENSORS, POWER PACKS

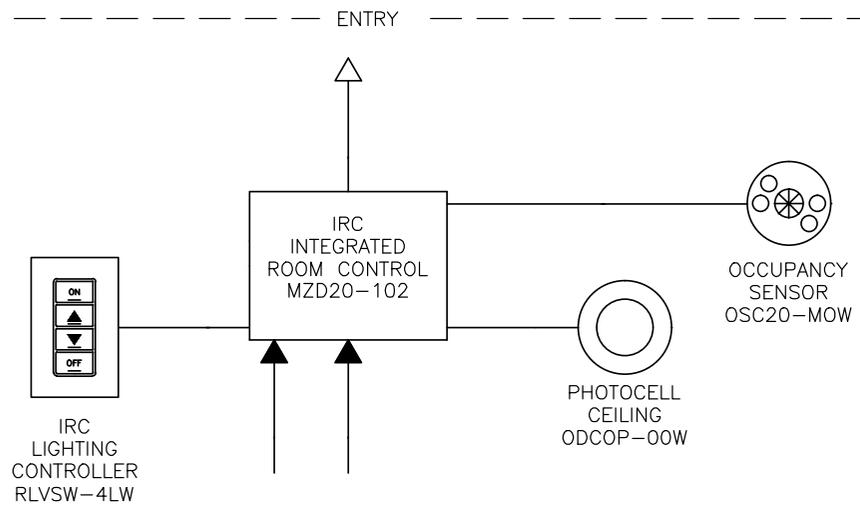


Facility Lighting Control with Daylighting



IRC, 4 BUTTON STATION, PHOTOCELL, OCCUPANCY SENSOR

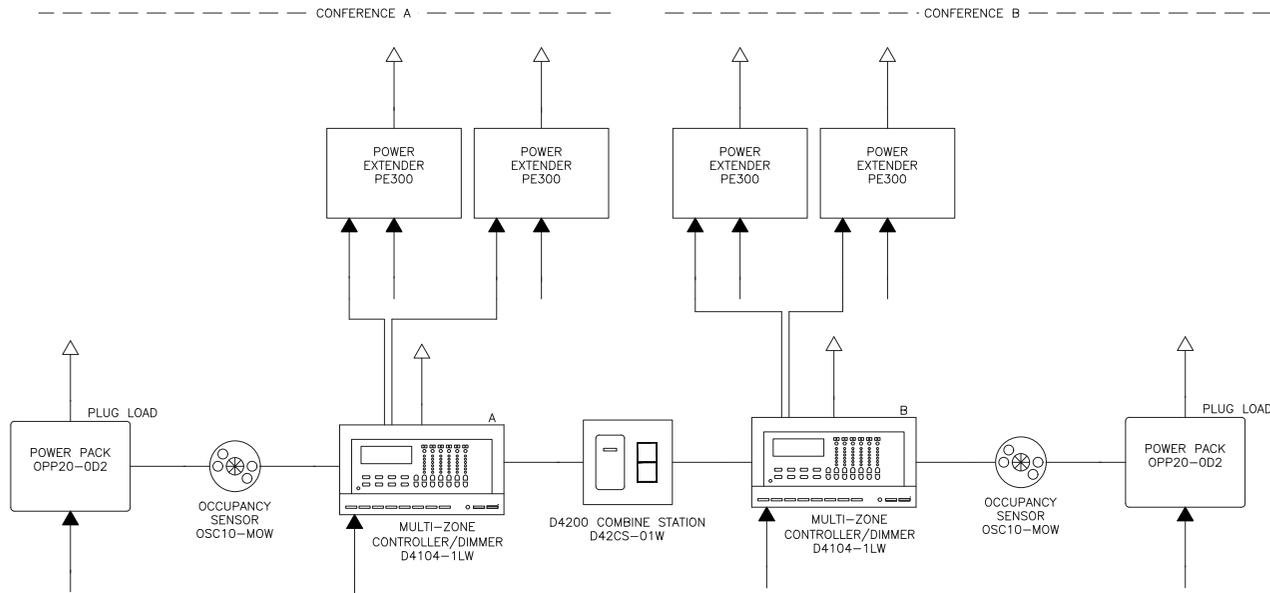
Daylighting and Manual Control



D4104, COMBINE STATION, OCCUPANCY SENSORS, POWER EXTENDERS, POWER PACKS



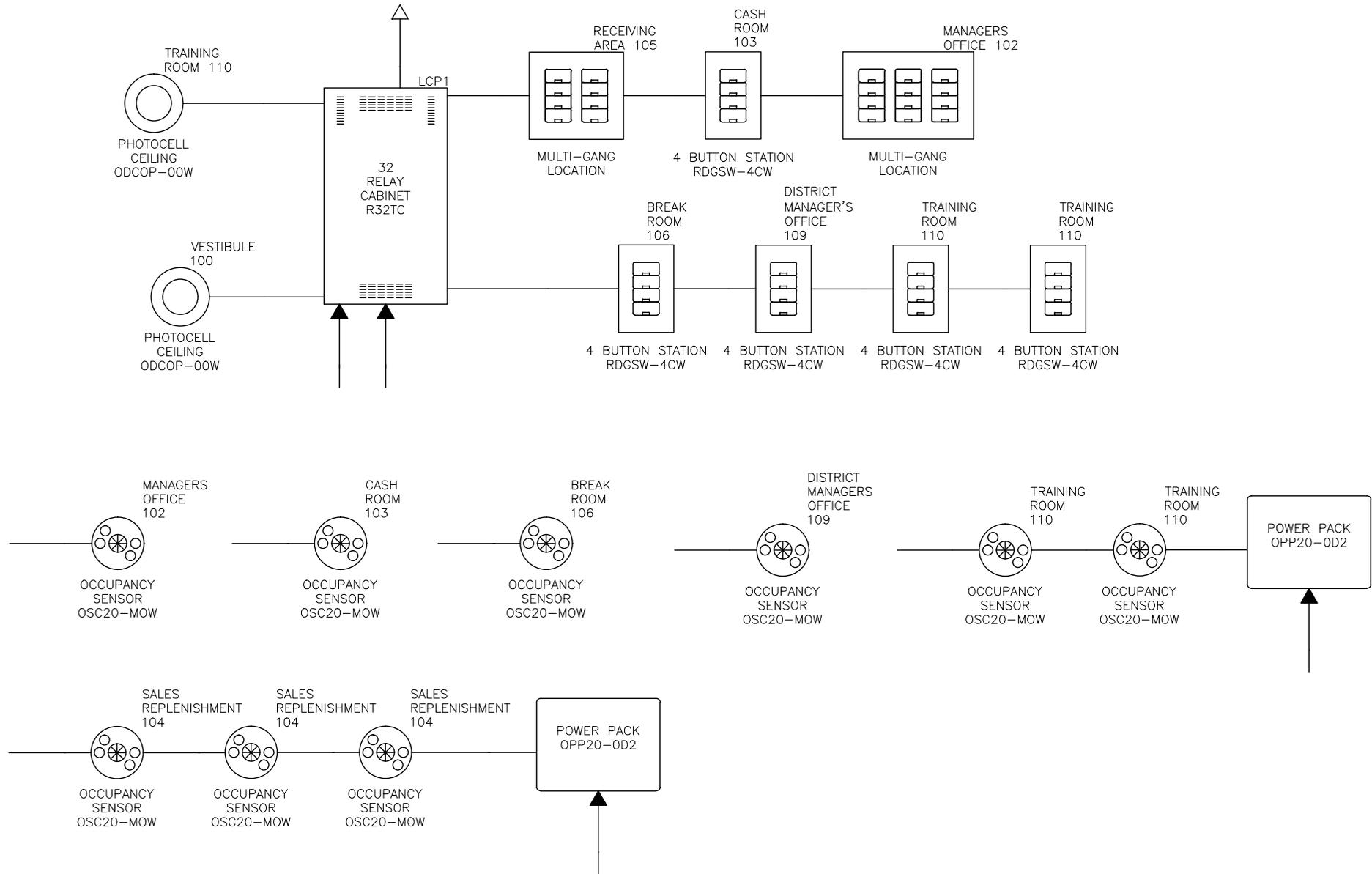
Combinable Preset Meeting Room Control



GREENMAX, MULTI-GANG STATIONS, 4 BUTTON STATIONS, PHOTOCELLS, OCCUPANCY SENSORS, POWER PACKS



Timer and Occupancy Based Facility Control with Daylighting





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