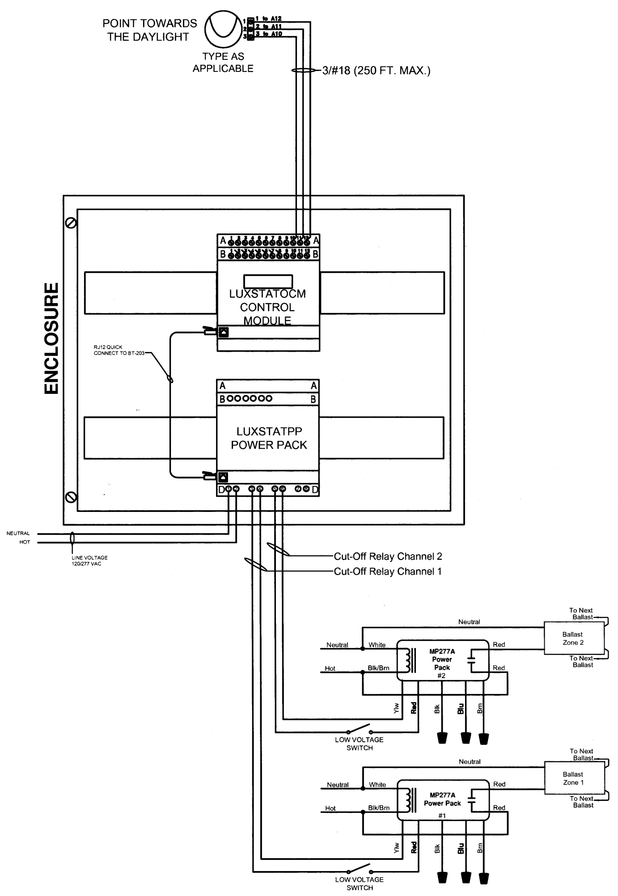
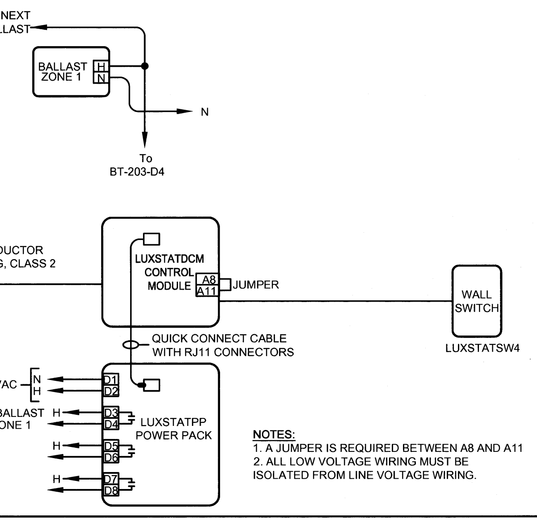


NOTE: LOCATE ENCLOSURE ABOVE ACCESSIBLE CEILING IN RESOURCE 213

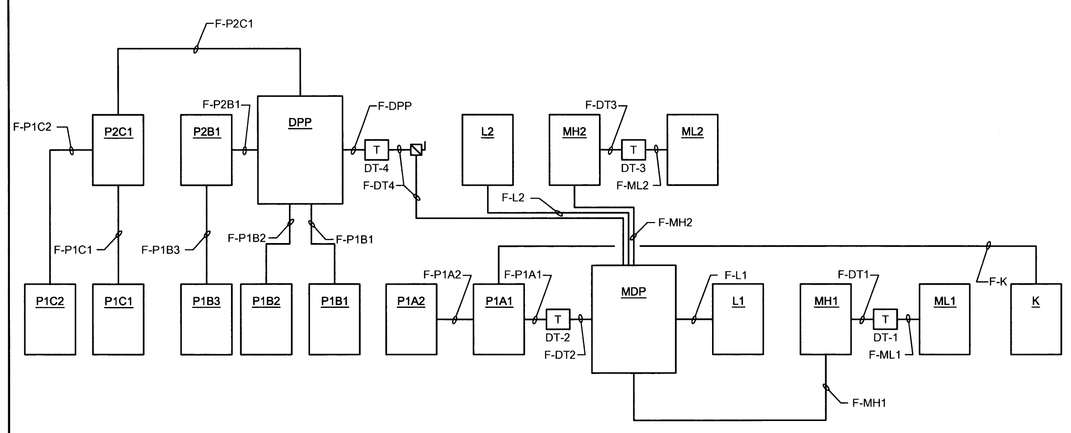
J1	LIBRARY PHOTOCELL WIRING DIAGRAM
NTS	--



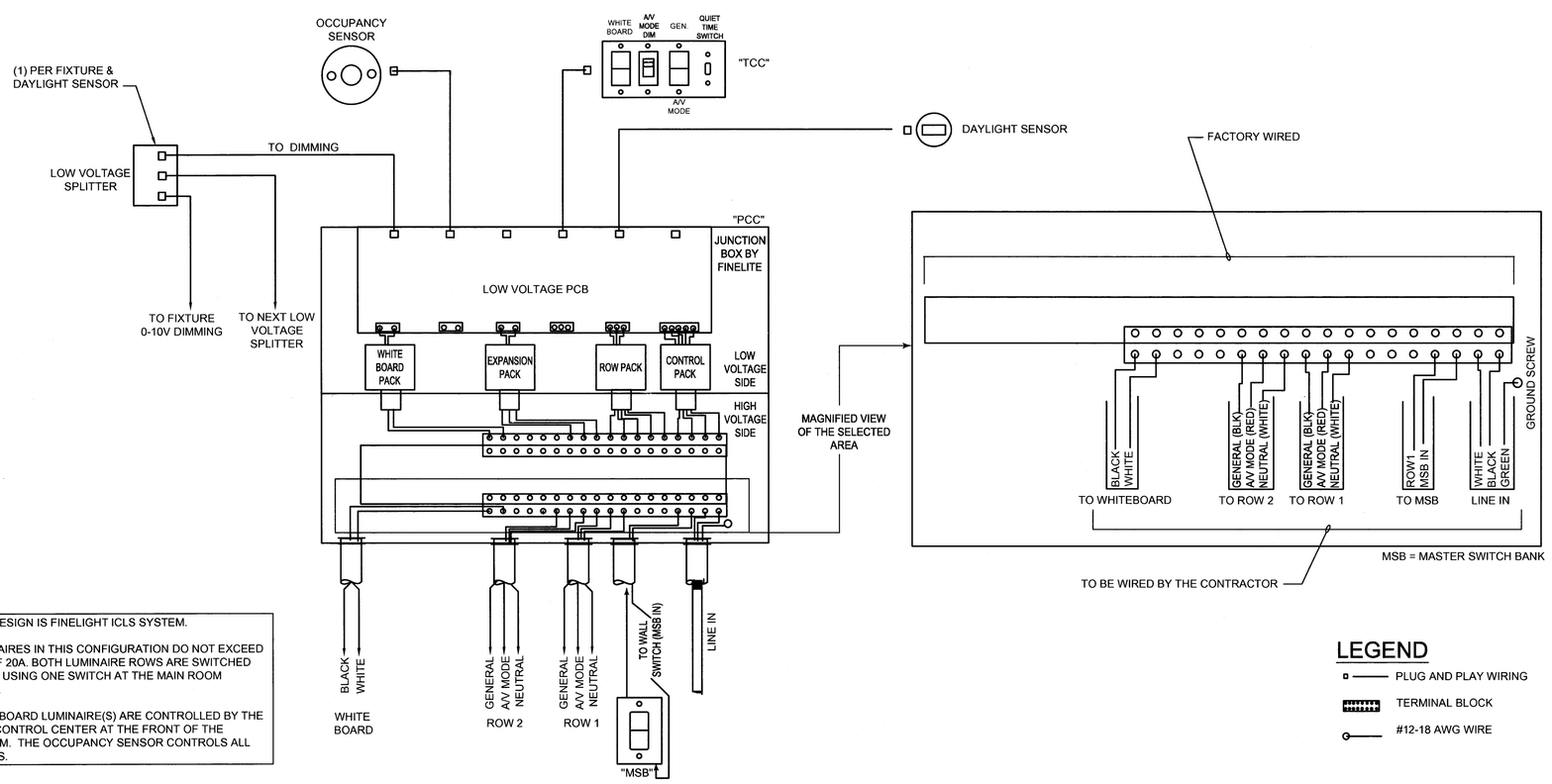
OPERATION:
LUXSTATDCM HAS 1 DAYLIGHT DIMMING ZONE. THE ZONE WILL DIM DOWN AS THE DAYLIGHT LEVEL INCREASES. THE LOW VOLTAGE WALL SWITCH IS USED TO MANUALLY TURN ON AND OFF THE LIGHTS AND THEY WILL REMAIN IN MANUAL CONTROL UNTIL THE AUTO BUTTON IS PRESSED.

NOTES:
1. A JUMPER IS REQUIRED BETWEEN A8 AND A11
2. ALL LOW VOLTAGE WIRING MUST BE ISOLATED FROM LINE VOLTAGE WIRING.

N5	SMALL GROUP PHOTOCELL WIRING DIAGRAM
NTS	--



J5	ELECTRICAL ONE LINE RISER DIAGRAM
NTS	--



BASIS OF DESIGN IS FINELIGHT ICLS SYSTEM.

THE LUMINAIRES IN THIS CONFIGURATION DO NOT EXCEED A TOTAL OF 20A. BOTH LUMINAIRE ROWS ARE SWITCHED TOGETHER USING ONE SWITCH AT THE MAIN ROOM ENTRANCE.

THE WHITEBOARD LUMINAIRE(S) ARE CONTROLLED BY THE TEACHER CONTROL CENTER AT THE FRONT OF THE CLASSROOM. THE OCCUPANCY SENSOR CONTROLS ALL LUMINARIES.

LEGEND
- PLUG AND PLAY WIRING
- TERMINAL BLOCK
- #12-18 AWG WIRE

A1	CLASSROOM LIGHTING CONTROL SYSTEM WIRING DIAGRAM
NTS	--

LIGHTING CONTROL PANEL SCHEDULE

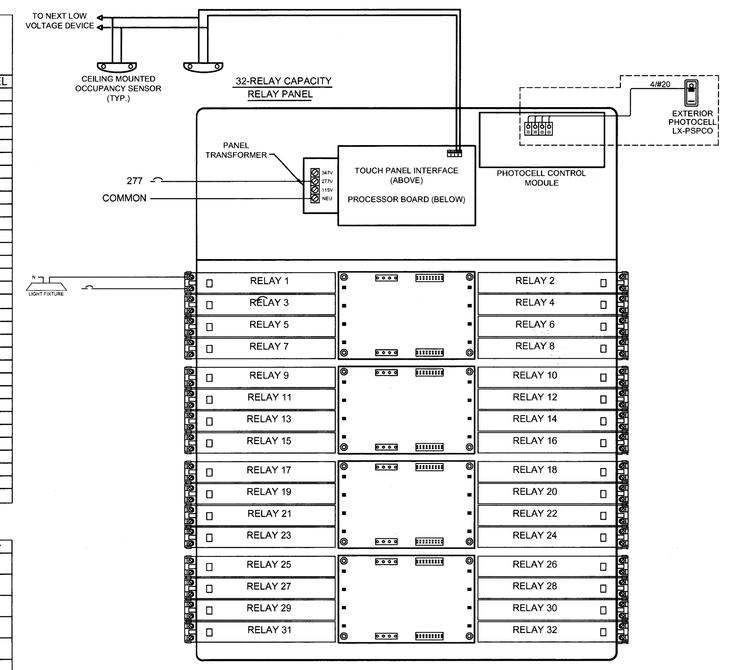
LCP NAME:	LCP
LOCATION:	ELECTRIC ROOM 224A
SURFACE/FLUSH:	SURFACE
POWER CIRCUIT:	L2-29

RELAY #	CIRCUIT	DESCRIPTION	LV SWITCH/SENSOR	CHANNEL
1	L1-7	CAFE LTS-SWITCH "A"	SWITCHES	C
2	L1-7	CAFE LTS-SWITCH "B"	SWITCHES	C
3	L1-7	CAFE LTS-SWITCH "C"	SWITCHES	C
4	L1-9	KITCHEN LTS-SWITCH "A"	SWITCHES	C
5	L1-9	KITCHEN LTS-SWITCH "B"	SWITCHES	C
6	L1-9	KITCHEN LTS-SWITCH "C"	SWITCHES	C
7	L1-15	STAGE-SWITCH "A"	SWITCHES	C
8	L1-15	STAGE-SWITCH "B"	SWITCHES	C
9	L1-8	MAIN LOBBY	OCCUPANCY SENSOR	D
10	L1-5	EXT. BLDG MTD LTS	PHOTOCELL	B
11	L2-7	SM GRP ED TECH 135A	SWITCHES	A
12	L2-7	SM GRP ED TECH 150A	SWITCHES	A
13	L2-7	SM GRP ED TECH 204A	SWITCHES	A
14	L2-7	SM GRP ED TECH 214A	SWITCHES	A
15	L1-11	EXT. POLE MTD SITE LTS	PHOTOCELL	B
16	L1-12	EXT. POLE MTD SITE LTS	PHOTOCELL	B
17	L1-16	EXT. POLE MTD WLKWY LTS	PHOTOCELL	B
18	L1-14	DISPLAY CASES	SWITCHES	C
19	L2-25	LIBRARY LTS-SWITCH "A"	SWITCHES	F
20	L2-27	LIBRARY LTS-SWITCH "B"	SWITCHES	F
21	L2-23	MAIN STAIRCASE	OCCUPANCY SENSOR	E
22	L2-8	SEG. B CORR - 1ST FLR	OCCUPANCY SENSOR	E
23	L2-8	SEG. B CORR - 2ND FLR	OCCUPANCY SENSOR	E
24	L2-15	SEG. C CORR - 1ST FLR	OCCUPANCY SENSOR	E
25	L2-15	SEG. C CORR - 2ND FLR	OCCUPANCY SENSOR	E
26	L1-17	EXT. CANOPY LTS	PHOTOCELL	B
27	L2-23	MAIN STAIRCASE -TYPE Y	SCHEDULE	G
28		SPARE		
29		SPARE		
30		SPARE		
31		SPARE		
32		SPARE		

LCP CHANNEL AUTOMATION SCHEDULE

CHANNEL	SCENARIO*	SCENARIO TIMES	BLINK	TIME DELAY
A	3	6AM TO 3PM	YES	5 MINS
B	5	DUSK TO 11PM	NO	-
C	3	6AM TO 9PM	YES	5 MINS
D	2,8	6AM TO 9PM	NO	-
E	2,8	6AM TO 3PM	NO	-
F	3	6AM TO 6PM	YES	5 MINS
G	2	6AM TO 6PM	NO	-

*SCENARIO LISTINGS
(1) MANUAL ON/SCHED OFF
(2) SCHEDULED ON/OFF
(3) MANUAL ON/SWEEP OFF
(4) PHOTOCELL ON/OFF
(5) PHOTO & SCHED ON/OFF
(6) ASTRONOMIC ON/OFF
(7) ASTRO & SCHED ON/OFF
(8) OCCUP. SENSOR OVERRIDE AFTER HOURS



SPECIFICATIONS:
PROVIDE A SINGLE RELAY PANEL WITH 32 RELAYS. EACH RELAY TO BE INDIVIDUALLY SCHEDULED THROUGH AN EASY TO USE INTEGRAL CLOCK WITH A BACKLIT 8-LINE LCD DISPLAY. RELAYS ARE TO BE SPST 20 AMP RATED, MECHANICALLY HELD CONTACTORS CAPABLE OF SWITCHING EITHER 120 OR 277VAC LOADS. MOUNTED NEXT TO EACH RELAY SHOULD BE A LED TO ANNUNCIATE STATUS AND A PUSHBUTTON TO TOGGLE THE RELAY'S STATE. PANEL SHALL HAVE A MULTITAP TRANSFROMER AND ACCEPT EITHER 120V OR 277V FOR POWER.

PANEL ENCLOSURE TO BE NEMA 1, RATED FOR ENVIRONMENTS FROM 32 - 139°F, 5 - 95% RH NON-CONDENSING. PANEL TO COME WITH A SPLIT COVER HINGED IN THE CENTER SUCH THAT THE HIGH VOLTAGE SIDE MUST BE UNSCREWED TO ACCESS THE RELAYS, BUT THE LOW VOLTAGE SIDE CAN BE OPENED VIA A LOCKING LATCH.

EACH RELAY CAN BE CONTROLLED REMOTELY BY EXTERNAL SWITCHES OR MOTION DETECTORS. SWITCHES CAN BE 2- OR 3-WIRE, MOMENTARY OR MAINTAINED LOW VOLTAGE DEVICES. MOTION DETECTORS MUST PROVIDE A 24VDC PILOT SIGNAL TO CONTROL THE RELAYS. PANEL MUST BE ABLE TO INTERLOCK TIME BASED SCHEDULES WITH THE OCCUPANCY SENSOR INPUT, SO THAT LIGHTS SCHEDULED ON DURING THE DAY ARE NOT AFFECTED BY THE MOTION DETECTOR, BUT AFTER HOURS THE OCCUPANCY SENSOR HAS CONTROL OR THE RELAY. PANEL SHALL BE CAPABLE OF BLINK WARNING BEFORE "OFF" AND TRUE AFTER HOURS TIME DELAY.

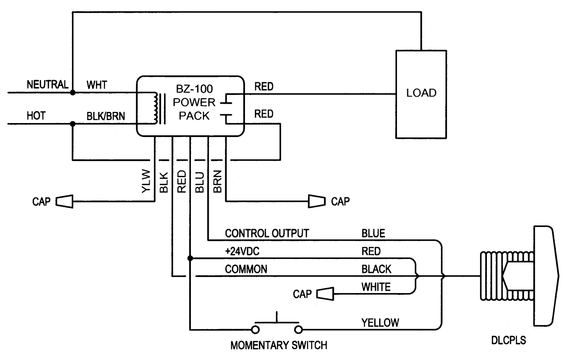
ALL PROGRAMMING TO BE ENTERED VIA A SIMPLE KEYPAD. EACH RELAY CAN BE PROGRAMMED INDEPENDENTLY, OR RELAYS CAN BE GROUPED TOGETHER IN FIRMWARE TO FOLLOW THE SAME CHANNEL SCHEDULE. ON A DAILY 7-DAY REPEATING BASIS, RELAYS CAN BE ASSIGNED TO FOLLOW ANY OF THE FOLLOWING SCENARIOS:

(1) MANUAL ON / SCHED OFF
(2) SCHEDULED ON/OFF
(3) MANUAL ON / SWEEP OFF
(4) PHOTOCELL ON/OFF
(5) PHOTO & SCHED ON/OFF
(6) ASTRONOMIC ON/OFF
(7) ASTRO AND SCHED ON/OFF
(8) OCCUPANCY SENSOR OVERRIDE AFTER HOURS

THE LCD SCREEN SHOULD NORMALLY SHOW THE CURRENT TIME AND DATE, AS WELL AS SUNRISE AND SUNSET TIMES FOR THAT DAY. RELAY CHANNELS CAN ALSO BE MONITORED FROM THE DISPLAY TO SEE THEIR STATUS - EITHER ON, OFF, OR MIXED. ADDITIONALLY THE RELAY GROUPS CAN BE OVERRIDEN FROM THE SCREEN. CONTENT SENSITIVE HELP SHALL BE AVAILABLE FOR EACH SCREEN.

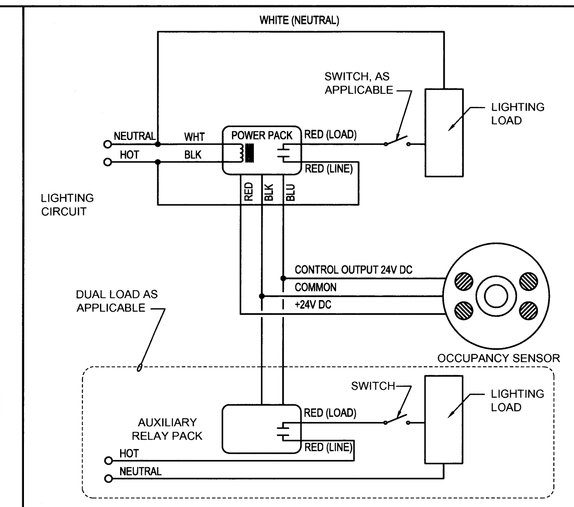
PANEL BASED ON THE HUBBELL'S LX32 PANEL AND MUST BE UL LISTED 916, MEET LOCAL ENERGY CODES, AND HAVE A 1 YEAR WARRANTY.

H12	LIGHTING CONTROL PANEL CONNECTIONS AND SCHEDULES
NTS	--

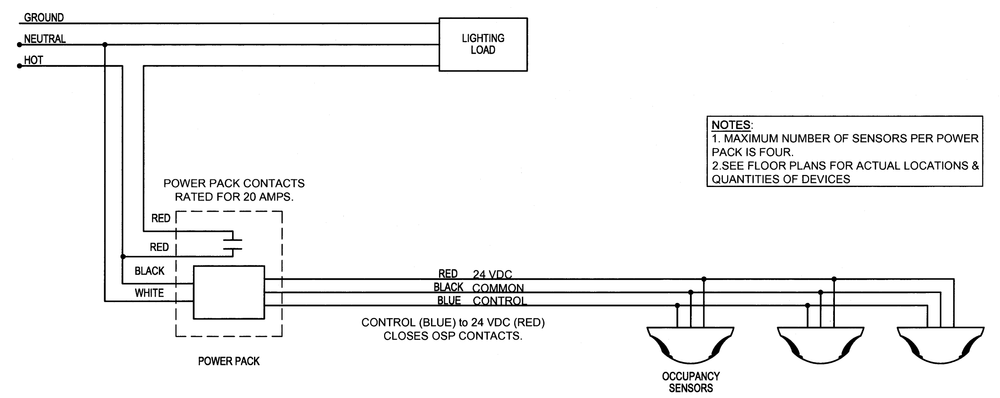


NOTE: DETAIL APPLIES TO SWITCH LEG "a" ONLY.

D12	CAFETERIA LIGHTING CONTROL
NTS	--



D15	GENERAL USE OCCUPANCY SENSOR WIRING DIAGRAM
NTS	--



NOTES:
1. MAXIMUM NUMBER OF SENSORS PER POWER PACK IS FOUR.
2. SEE FLOOR PLANS FOR ACTUAL LOCATIONS & QUANTITIES OF DEVICES

A12	CORRIDOR/LOCKER ROOM OCCUPANCY SENSOR WIRING DIAGRAM
NTS	--

REV.	DESCRIPTION	DATE
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SCALE:	AS NOTED
PROJECT MANAGER:	MEJ
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CHECKED BY:	SJL
GRAPHIC SCALE:	0" 1"
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