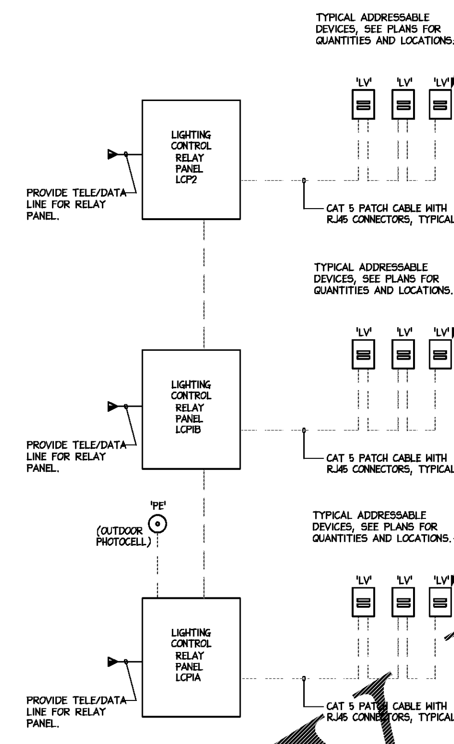
LIGHTING CONTROL EQUIPMENT LEGEND		
ITEM	DESCRIPTION	MODEL
LCP1A	LOW VOLTAGE RELAY PANEL WITH 24 RELAYS	SOFTSWITCH 128 WITH (24) 20A/1P RELAYS AND BMS INTEGRATION (XPS24)
LCP1B	LOW VOLTAGE RELAY PANEL WITH 24 RELAYS	SOFTSWITCH 128 WITH (24) 20A/1P RELAYS AND BMS INTEGRATION (XPS24)
LCP2	LOW VOLTAGE RELAY PANEL WITH 24 RELAYS	SOFTSWITCH 128 WITH (24) 20A/1P RELAYS AND BMS INTEGRATION (XPS24)
S_{LV}	LOW VOLTAGE 2-BUTTON ON/OFF SWITCH	TOUCH 2-BUTTON WALL STATION ON/OFF CONTROL (SO-2BN-WH)
SWITCH PE	EXTERIOR PHOTOCELL	PCO 2400
---- ----- ----	CAT 5 LOW VOLTAGE CONTROL CABLE	

NOTES:

1. A COMPLETE LIGHTING CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS MANUFACTURED BY LUTRON. COORDINATE ALL EQUIPMENT AND WIRING REQUIREMENTS WITH LUTRON PRIOR TO PROJECT START UP. THE LIGHTING CONTROL SYSTEM WILL PROVIDE AUTOMATED ON/OFF CONTROL OF SELECTED LIGHT FIXTURES AND EXTERIOR LIGHTS. ALL LOW VOLTAGE SWITCHES WILL ACT AS OVERRIDE SWITCHES IN THE EVENT LIGHTS NEED TO BE ON AFTER NORMAL BUSINESS HOURS. ALL EXTERIOR LIGHTING WILL BE EITHER PHOTOCELL ON/OFF OR PHOTOCELL ON/TIMECLOCK OFF CONTROLLED.

COORDINATE EXACT LUTRON EQUIPMENT AND WIRING REQUIREMENTS WITH MANUFACTURER PRIOR TO PRICING.



1 LIGHTING CONTROL WIRING DIAGRAM
DIAGRAMMATIC

LIGHTING CONTROL PANEL LCP2 RELAY SCHEDULE			
CIRCUIT NUMBER	RELAY NUMBER	AREA	CONTROL
EL2-1	1	HALL 216 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-1	2	JANITOR 207 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-1	3	MEN SHOWER 206 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-3	4	MEN TOILET 207 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-3	5	WOMEN SHOWER 204 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-3	6	WOMEN TOILET 203 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-3	7	JANITOR 208 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-5	8	STORAGE 223 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL2-5	9	KITCHEN 212 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
	10	SPARE	
	11	SPARE	
	12	SPARE	
	13	SPARE	
	14	SPARE	
	15	SPARE	
	16	SPARE	
	17	SPARE	
	18	SPARE	
	19	SPARE	
	20	SPARE	
	21	SPARE	
	22	SPARE	
	23	SPARE	
	24	SPARE	

ALL TIME SETTINGS SHALL BE APPROVED BY OWNER.

LIGHTING CONTROL PANEL LCP1B RELAY SCHEDULE			
CIRCUIT NUMBER	RELAY NUMBER	AREA	CONTROL
EL1B-1	1	BAG HOLD 112 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	2	LOCKER 115 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	3	CLOSET 116 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	4	OFFICE 117 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	5	WAC OFFICE 118 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	6	HALL LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-1	7	LACTATION 109 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-3	8	[illegible] 106 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-3	9	MEN [illegible] TOILET LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
[illegible]	10	WOMEN [illegible] TOILET LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
[illegible]	11	CATER [illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
[illegible]	12	JANITOR [illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
[illegible]	13	TOILET 14[illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-[illegible]	14	SEC WAIT [illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-7	15	HALL 138 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-9	16	SCREEN 13[illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-9	17	SSCP 133 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1B-9	18	OFFICE [illegible] LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
	19	SPARE	
	20	SPARE	
	21	SPARE	
	22	SPARE	
EL1B-7	23	HALL 149 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
	24	SPARE	

ALL TIME SETTINGS SHALL BE APPROVED BY OWNER.

LIGHTING CONTROL PANEL LCP1A RELAY SCHEDULE			
CIRCUIT NUMBER	RELAY NUMBER	AREA	CONTROL
EL1A-1	1	BAG CLAIM 168 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-1	2	WOMEN 167 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-1	3	MEN 166 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-3	4	PRIMARY 163 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	5	OFFICE 157 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	6	SUP 160 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	7	HALL 149 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	8	BREAK 152 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	9	SEIZ 151 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-5	10	FILE 150 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-7	11	MALE LOCKER 153 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-7	12	FEMALE LOCKER 154 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-7	13	LACTATION 155 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-7	14	TLT 156 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-9	15	HALL 148 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
EL1A-9	16	SECONDARY 161 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
	17	SPARE	
	18	SPARE	
	19	SPARE	
EL1A-9	20	LAB 144 LTS	LOW VOLTAGE SWITCH ON/TIMECLOCK 11:00 PM OFF
	21	SPARE	
	22	SPARE	
	23	SPARE	
	24	SPARE	

ALL TIME SETTINGS SHALL BE APPROVED BY OWNER.

DIMMING PANELBOARD SCHEDULE - "DIM-EX"

MAIN: 125A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | A/C: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	RAMP LTS - R1	0.8							0.8							PEDESTRIAN LTS - F2	1/2"	12	1	20	2
3	20	1	12	1/2"	RAMP LTS - R1	0.8							0.8							PEDESTRIAN LTS - F1	1/2"	12	1	20	4
5	20	1	12	1/2"	SPARE								0.3							WEST FAÇADE LTS - F4	1/2"	12	1	20	6
7	20	1	12	1/2"	SPARE								0.5							FRONT FAÇADE LTS - F5	1/2"	12	1	20	8
9	20	1	12	1/2"	SPARE								0.4							EAST FAÇADE LTS - F3	1/2"	12	1	20	10
11	20	1	12	1/2"	SPARE								0.9							AIRSIDE FAÇADE LTS - F7	1/2"	12	1	20	12
13	20	1	12	1/2"	SPARE								0.5							AIRSIDE ENTRY LTS - F6	1/2"	12	1	20	14
15	20	1	12	1/2"	SPARE								0.2							AIRSIDE WALKWAY LTS - F6	1/2"	12	1	20	16
LIGHTING (KVA): 5.8						1.6	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					5.8
RECEPTACLES (KVA): 0.0																				DEMAND LOAD (KVA):					7.3
MOTORS (KVA): 0.0						PHASE A	3	9.4																	
A/C (KVA): 0.0						PHASE B	2	7.2												CONNECTED LOAD (AMPS):					7.0
HEATING (KVA): 0.0						PHASE C	1	4.8												DEMAND LOAD (AMPS):					8.7
KITCHEN (KVA): 0.0							KVA	AMPS																	
MISCELLANEOUS (KVA): 0.0																									
NOTES:																									

1. LUTRON DIMMING PANEL. SEE SHEET E-206L FOR DETAILS.

DIM-EX DEMAND CALCS								
LIGHTING		5.80	KVA X	125	%	=	7.3 KVA
RECEPTACLE	TOTAL	0.00	KVA				
	1ST	10.00	KVA X	100	%	=	0.0 KVA
	REMAIN	0.00	KVA X	50	%	=	0.0 KVA
MOTORS		0.00	KVA X	100	%	=	0.0 KVA
A/C		0.00	KVA X	100	%	=	0.0 KVA
HEATING		0.00	KVA X	100	%	=	0.0 KVA
FUTURE		____	KVA X	100	%	=	0.0 KVA
KITCHEN		0.00	KVA X	65	%	=	0.0 KVA
MISCELLANEOUS		0.00	KVA X	100	%	=	0.0 KVA
TOTAL	=	8.7 amps				=	7.3 KVA

DIMMING PANELBOARD SCHEDULE - "DIM-IN"

MAIN: 125A MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | A/C: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	LTG	REC	MTS	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	[illegible]	MAIN [illegible] AREA LTS	0.6							0.1							CONCESSION PEND LTS	1/2"	12	1	20	2
3	20	1	[illegible]	[illegible]	MAIN SEA[illegible]AREA LTS								0.1							CONCESSION DN LTS	1/2"	12	1	20	4
5	20	1	12	[illegible]	MAIN VEST[illegible] LTS								0.1							VESTIBULE LTS	1/2"	12	1	20	6
7	20	1	12	[illegible]	MAIN SEA[illegible]G AREA LTS	[illegible]							0.1							HALL LTS	1/2"	12	1	20	8
9	20	1	12	1/2"	[illegible] VESTIBULE LTS	0.1							0.1							LOBBY DN LTS	1/2"	12	1	20	10
11	20	1	12	1/2"	[illegible]DE VESTIBULE LTS	0.1							0.1							RECEPTION DN LTS	1/2"	12	1	20	12
13	20	1	12	1/2"	[illegible]ENDANT	0.1														SPACE	1/2"	12	1	20	14
15	20	1	12	1/2"	HA[illegible] LTS	0.2														SPACE	1/2"	12	1	20	16
17	[illegible]	1	12	1/2"	2ND F[illegible]OR LTS	0.2														SPACE	1/2"	12	1	20	18
[illegible]	[illegible]	1	12	1/2"	HIGH C[illegible]N LTS	0.8														SPACE	1/2"	12	1	20	20
21	[illegible]	1	12	1/2"	HIGH CLG UP LTS	1.0														SPACE	1/2"	12	1	20	22
23	[illegible]	1	12	1/2"	HIGH CLG UP LTS	0.6														SPACE	1/2"	12	1	20	24
LIGHTING (KVA): 5.8						5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					5.8
RECEPTACLES (KVA): 0.0																				DEMAND LOAD (KVA):					7.3
MOTORS (KVA): 0.0						PHASE A	3	20.8																	
A/C (KVA): 0.0						PHASE B	2	17.5												CONNECTED LOAD (AMPS):					16.1
HEATING (KVA): 0.0						PHASE C	1	10.6												DEMAND LOAD (AMPS):					20.1
KITCHEN (KVA): 0.0							KVA	AMPS																	
MISCELLANEOUS (KVA): 0.0																									
NOTES:																									

1. LUTRON DIMMING PANEL. SEE SHEET E-206L FOR DETAILS.

DIM-IN DEMAND CALCS							
LIGHTING		5.80	KVA X	125	%	=	7.3 KVA
RECEPTACLE	TOTAL	0.00	KVA				
	1ST	10.00	KVA X	100	%	=	0.0 KVA
	REMAIN	0.00	KVA X	50	%	=	0.0 KVA
MOTORS		0.00	KVA X	100	%	=	0.0 KVA
A/C		0.00	KVA X	100	%	=	0.0 KVA
HEATING		0.00	KVA X	100	%	=	0.0 KVA
FUTURE		____	KVA X	100	%	=	0.0 KVA
KITCHEN		0.00	KVA X	65	%	=	0.0 KVA
MISCELLANEOUS		0.00	KVA X	100	%	=	0.0 KVA
TOTAL	=	20.1 amps				=	7.3 KVA

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Dec 17, 2018 — 10:32am

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REVISIONS

DATE DECEMBER 7, 2018
PROJECT NUMBER 9197-000

SHEET TITLE
LIGHTING CONTROL DETAILS

SHEET NUMBER
E-208L

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