

2 EXISTING ELECTRICAL RISER (PARTIAL)
E1.2 NOT TO SCALE

EXISTING ELECTRICAL RISER KEYED NOTES:

- EXISTING FEEDER TO REMAIN AS IS. NO WORK REQUIRED. SHOWN FOR INFORMATION ONLY.
- EXISTING EQUIPMENT TO REMAIN.
- CONNECT NEW ITEMS TO OR REMOVE EXISTING ITEMS FROM EXISTING CIRCUITS IN THIS PANEL PER PLAN AND SCHEDULES.
- EXISTING PANEL 'A' FED FROM 200A, 3-POLE FUSED DISCONNECT WITH 200A FUSES IN 'MS'.
- EXISTING LUTRON DIMMER SYSTEM PER DETAIL THIS SHEET. FEED FROM EXISTING 60A, 3-POLE BREAKER IN PANEL 'A' AND RECONNECT TO EXISTING FEEDER.

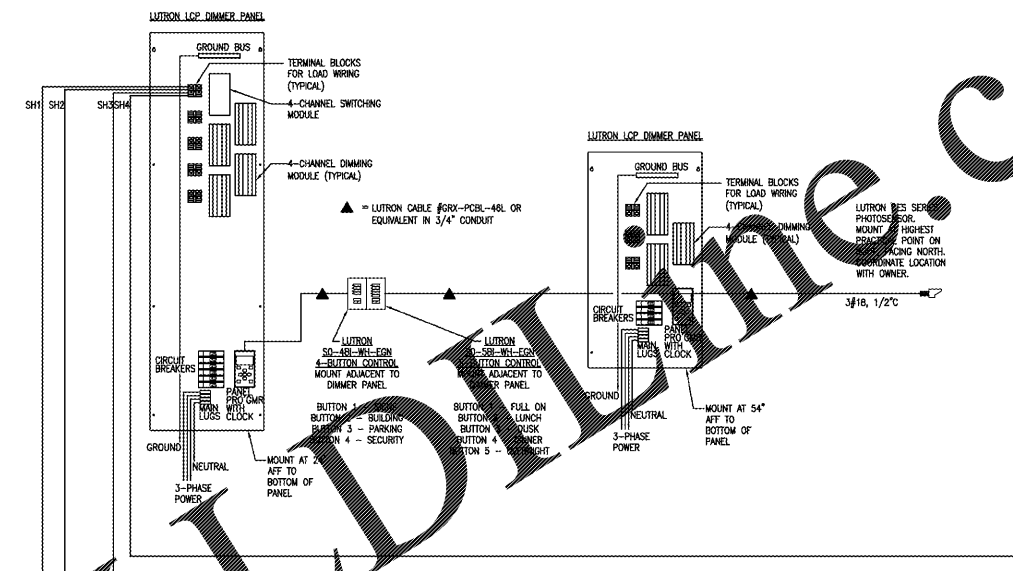
NOTE: PROVIDE WORK AND MATERIALS AS DEPICTED IN THESE DRAWINGS. IF ANY ADDITIONAL SYSTEMS (LIGHTING IN AREAS NOT BEING RENOVATED, HVAC CONTROLS, SECURITY, ETC.) THAT ARE NOT DIRECTLY AFFECTED BY WORK INDICATED, CONTRACTOR SHALL NOTIFY OWNER BEFORE PROCEEDING AND INCLUDE WORK TO RESTORE AFFECTED SYSTEMS TO PREVIOUS CONDITION.

NOTE: THIS RENOVATION RESULTS IN A NET LOAD REDUCTION. THE NEW LOAD ADDED IS SMALLER THAN THE EXISTING LOAD REMOVED.

PANEL A		VOLTAGE	208/120	3 PH	4W	MINS:		100	MLO	AC RATING	EXISTING	REMARKS
		FEEDER AMP	200			FEED:	EXISTING	ENCLOSURE	EXISTING	MOUNTING	EXISTING	FIELD VERIFY EXISTING CIRCUITS
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR		
20/1	E	NIGHT & EMERGENCY LIGHTS	158	1	A	2	452	WOMEN'S RESTROOM	E	20/1		
20/1	E	KITCHEN	516	3	B	4	648	MEN'S RESTROOM	E	20/1		
20/1	E	KITCHEN	240	5	C	6	318	FRONT EXTERIOR	2	2/SH2	20/1	
20/1	E	KITCHEN	636	7	A	8	660	NORTH EXTERIOR	2	2/SH2	20/1	
20/1	E	KITCHEN	584	9	B	10	840	SOUTH & WEST EXTERIOR	2	2/SH2	20/1	
20/1	E	SERVICE AREA LIGHTS	384	11	C	12	156	CANOPY LIGHTS	2	2/SH2	20/1	
20/1	E	EXISTING LOAD	420	13	A	14	348	ROOF LIGHTS	2	2/SH2	20/1	
20/1	2, SH2	FAST BUILDING LIGHTS	408	15	B	16	588	ROOF LIGHTS	2	2/SH2	20/1	
20/1	2, SH2	ROOF REC & LIGHTS	432	17	C	18	480	ROOF LIGHTS	2	2/SH2	20/1	
20/1	2, SH1	BUILDING SIGN	864	19	A	20	336	LANDSCAPE LIGHTS	2	2/SH2	20/1	
20/1	2, SH1	BUILDING SIGN	372	21	B	22	432	LANDSCAPE LIGHTS	2	2/SH2	20/1	
20/1	2, SH1	BUILDING SIGN	384	23	C	24	576	PYLON SIGN	2	2/SH1	20/1	
20/1	E	TIME CLOCK	492	25	A	26	862	EXISTING LOAD	2	2/SH1	20/1	
20/1	E	EMERGENCY LIGHTS	324	27	B	28	500	DINING RM 3 WINE COOLER	3	20/1		
20/1	2, SH2	EXISTING LOAD	456	29	C	30	500	DINING RM 4 WINE COOLER	3	20/1		
60/3	3, 4	DIMMER PANEL 'DM1'	370	31	A	32	478	DIMMER PANEL 'DM2'	3, 4	60/3		
			1080	33	B	34	460					
			390	35	C	36	420					
20/1	3, 4	BAR TV/CABLE/CONV. OUTLETS	1000	37	A	38	500	LOBBY TV/CABLE BOXES	3, 4	20/1		
20/1	3, 4	TO GO COUNTER CONV.	500	39	B	40	500	LOBBY TV/CABLE BOXES	3, 4	20/1		
20/1	3, 4	BAR PLUGMOLD	1000	41	C	42	0	SPACE				
Connected Load Per Phase			PH A:	7516	PH B:	7712	PH C:	5994				
Connected VA			Lighting	HVAC	Motors	Recept	Relief	Kitchen	Misc	Total VA	Amps	
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.85	1.00	21322	89.2	
Demand VA			20413	0	0	2500	1000	0	1492	25405	70.5	

EXISTING PANEL GENERAL NOTES:

- VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'. FOR EXISTING CIRCUITS MISLABELED BUT CONNECTED TO EXISTING LOAD REQUIRED TO REMAIN, FIELD DETERMINE LOAD AND PROVIDE APPROPRIATE DESCRIPTION IN PANEL DIRECTORY.
- PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS. CLEAN OFF/REMOVE/FRASE ALL HANDWRITTEN LABELING ON PANEL COVER. CIRCUIT DESCRIPTION SHALL EXIST ON PANEL DIRECTORY ONLY.
- REMOVE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
- CLEAN PANELBOARDS, AND REPAIR OR REPLACE ANY MISSING OR DAMAGED COMPONENTS ON EXISTING PANELBOARDS AND DIMMING EQUIPMENT. FIELD VERIFY AND COORDINATE EXACT REQUIREMENTS WITH OWNER.
- EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DRAWINGS AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.
- PANEL SCHEDULE INDICATES PROPOSED CONNECTION AFTER ALL CHANGES HAVE BEEN COMPLETED.



PANEL SCHEDULES:

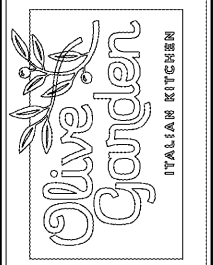
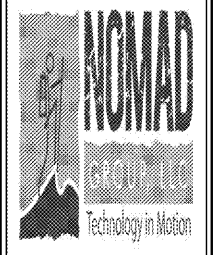
- 1** PANEL SCHEDULES
E1.2 NOT TO SCALE
- EXISTING EXTERIOR LIGHTING NOTE:**
FIELD VERIFY ACTUAL LOADS SERVED BY EACH EXTERIOR LIGHTING CIRCUIT AND DETERMINE BEST SWITCHED OUTPUT TO CONTROL CIRCUIT BASED ON SWITCHED OUTPUT DESCRIPTIONS IN DETAIL THIS SHEET.
LITTLE OR NO INFORMATION IS AVAILABLE ABOUT EXISTING CONTACTORS. CONTROL SCHEME INDICATED IS INFORMATIONAL ONLY, AND USE OF NEW CONTACTORS HAS BEEN INDICATED FOR COMMUNICATION OF INTENT. FIELD VERIFY LOCATION, CONFIGURATION, AND CONDITION OF EXISTING CONTACTORS AND REUSE IF PRACTICAL. OTHERWISE, FIELD VERIFY EXACT QUANTITY OF CIRCUITS REQUIRING CONTROL UNDER EACH SWITCHED OUTPUT AND PROVIDE NEW CONTACTORS AS REQUIRED, TYPE AND RATINGS TO MATCH EXISTING, TO ACHIEVE CONTROL PER DETAIL THIS SHEET.
ALL LIGHTING CONTACTORS SHALL BE N.O., ELEC HELD, 120V COIL, 30A IN NAME 1 ENCLOSURE (TYP.); POLES AS REQUIRED WITH TWO (2) SPARE. CONTRACTOR TO REPLACE EXISTING CONTACTORS AS NECESSARY TO ACCOMPLISH THIS.

DIMMER PANEL 'DM1'		VOLTAGE	208/120	3 PH	4W	MINS:		100	MLO	AC RATING	10K	REMARKS
		FEEDER AMP	60			FEED:	EXISTING	ENCLOSURE	EXISTING	MOUNTING	FLUSH	NEMA 1
CKT NUM & BREAKER	MODULE TYPE	MODULE MAX VA	DIMMER OUTPUT CKT	OUTPUT MAX VA	LOAD DESCRIPTION	LOAD VA	PHASE	REMARKS				
DM1-1 20/1	4-Output 4A	1920	DH-1	1200	SWITCHED OUTPUT 1 - SIGNAGE	0	A	EXTERIOR LIGHTING CONTROL, SWITCHED OUTPUT				
			DH-2	1200	SWITCHED OUTPUT 2 - BUILDING LIGHTS	0		EXTERIOR LIGHTING CONTROL, SWITCHED OUTPUT				
			DH-3	1200	SWITCHED OUTPUTS - PARKING LOT LIGHTS	0		EXTERIOR LIGHTING CONTROL, SWITCHED OUTPUT				
			DH-4	1200	SWITCHED OUTPUT 4 - SECURITY LIGHTS (DUSK TO DAWN)	0		EXTERIOR LIGHTING CONTROL, SWITCHED OUTPUT				
DM1-2 20/1	4-Output 4A	1920	DH1-5	1200	VESTIBULE RECESSED LIGHTS	30	B					
			DH1-6	1200	LOBBY TRACK / RECESSED LIGHTS	220						
			DH1-7	1200	LOBBY PENDANT CLUSTER	120						
			DH1-8	1200	RESTROOM LIGHTS / MONOPOINTS	265						
DM1-3 20/1	4-Output 4A	1920	DH1-9	1200	TRAILWAY LIGHTS / MONOPOINT	100	C					
			DH1-10	1200	BAR STRIP LIGHTS	80						
			DH1-11	1200	BAR TRACK	40						
			DH1-12	1200	DINING 5 & 8 TRACK / RECESSED LIGHTS	170	A					
DM1-4 20/1	4-Output 4A	1920	DH1-13	1200	DINING 5 & 8 TRACK / RECESSED LIGHTS	14						
			DH1-14	1200	DINING 5 PENDANTS	90						
			DH1-15	1200	DINING 2 CHANDELIER	96						
			DH1-16	1200	DINING 2 & 4 TRACK	210						
DM1-5 20/1	4-Output 4A	1920	DH1-17	1200	BACK BAR RECESSED LIGHTS	50						
			DH1-18	1200	BACK BAR RECESSED LIGHTS	50						
			DH1-19	1200	DINING 8 TRACK	0						
			DH1-20	1200	SPARE	0						
DM1-5 20/1 BKR ONLY	N/A	N/A	N/A	N/A	DINING BAR EMERGENCY LIGHTS	0	C	BREAKER ONLY; LOCK-ON				
Connected Load Per Phase			PH A:	1820	PH B:	2275	PH C:	390				
Connected VA			Lighting	HVAC	Motors	Recept	Relief	Kitchen	Misc	Total VA	Amps	
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.85	1.00	1820	5.1	
Demand VA			2275	0	0	2500	1000	0	1492	2275	6.3	

DIMMER PANEL 'DM2'		VOLTAGE	208/120	3 PH	4W	MINS:		100	MLO	AC RATING	10K	REMARKS
		FEEDER AMP	60			FEED:	EXISTING	ENCLOSURE	EXISTING	MOUNTING	FLUSH	NEMA 1
CKT NUM & BREAKER	MODULE TYPE	MODULE MAX VA	DIMMER OUTPUT CKT	OUTPUT MAX VA	LOAD DESCRIPTION	LOAD VA	PHASE	REMARKS				
DM2-1 20/1	4-Output 4A	1920	DH2-1	1200	DINING 7 PENDANTS	26	A					
			DH2-2	1200	DINING RECESSED LIGHTS / MONOPOINT / TRACK	230						
			DH2-3	1200	BAR SOFFIT LIGHTS	130						
			DH2-4	1200	SERVICE ALLEY LIGHTS / MONOPOINT	80						
DM2-2 20/1	4-Output 4A	1920	DH2-5	1200	DINING 7 PENDANTS	50	B					
			DH2-6	1200	DINING 7 & 8 TRACK / RECESSED LIGHTS	150						
			DH2-7	1200	DINING 3 TRACK	140						
			DH2-8	1200	DINING 3 PENDANT CLUSTER	120						
			DH2-9	1200	DINING 7 TRACK	140						
			DH2-10	1200	WINE CABINET LIGHTS	80	C					
			DH2-11	1200	DINING 5 TRACK	220						
			DH2-12	1200	SPARE	0						
DM2-2 20/1 BKR ONLY	N/A	N/A	N/A	N/A	DINING BAR EMERGENCY LIGHTS	0	A	NON-DIMMABLE BREAKER ONLY; LOCK-ON				
Connected Load Per Phase			PH A:	478	PH B:	400	PH C:	420				
Connected VA			Lighting	HVAC	Motors	Recept	Relief	Kitchen	Misc	Total VA	Amps	
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.85	1.00	1358	3.8	
Demand VA			1698	0	0	2500	1000	0	1492	1698	4.7	

- NOTES:**
- THE DIMMER PANEL, AND 4-SCENE OR 5-SCENE CONTROLLERS ARE FURNISHED, INSTALLED, AND WIRED BY THE CONTRACTOR.
 - REFER TO THE DIMMER PANEL INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - THE DIMMER PANEL AND CONTROLLER ARE MANUFACTURED BY LUTRON (NO EXCEPTIONS) AND SUPPLIED BY SPECIALTY LIGHTING. CONTACT SPECIALTY LIGHTING AT 860-787-0110 EXT. 221 FOR PROCESSING OF DIMMER EQUIPMENT.
 - COORDINATE EXACT MOUNTING LOCATION OF DIMMER PANEL WITH OWNER PRIOR TO WORK. OBSERVE ALL NEC REQUIRED CLEARANCES.
 - COORDINATE EXACT MOUNTING LOCATION OF 4-SCENE OR 5-SCENE DIMMER CONTROLLER WITH OWNER PRIOR TO WORK. PROVIDE ENGRAVED FACEPLATE LABELING EACH BUTTON PER OWNER'S DIRECTION.
 - CONNECT EMERGENCY LIGHTING AHEAD OF UNSWITCHED HOT CIRCUIT BREAKER LOAD TERMINALS. PROVIDE LOCK-ON DEVICE FOR DEDICATED EMERGENCY CIRCUIT BREAKER. LABEL ALL CIRCUITS SERVING EMERGENCY LIGHTING PER NEC.
 - UNLESS NOTED OTHERWISE, USE EXISTING CIRCUITS AND LIGHTING CONTACTORS WHERE POSSIBLE. PROVIDE WIRING, ADDITIONAL CONTACTORS, AND OTHER COMPONENTS AS REQUIRED TO ENSURE COMPLETE INTEGRATION OF NEW ITEMS INTO LIGHTING CONTROL SYSTEM FOR ALL LIGHTS, SIGNS, AND OTHER ITEMS REQUIRING CONTROL. PER OWNER. FIELD VERIFY AND COORDINATE EXACT REQUIREMENTS. NEW COMPONENTS SHALL BE COMPATIBLE WITH EXISTING.
 - CONNECT ALL EXISTING AND NEW CONTROLLED EXTERIOR LOADS VIA SWITCHING MODULE IN LUTRON PANEL. PROVIDE WIRING AND CONNECTIONS REQUIRED TO ACCOMPLISH CONTROL AS DESCRIBED IN THIS DETAIL.
 - CONNECT NEW AND EXISTING EXTERIOR EMERGENCY LIGHTING AHEAD OF CONTACTORS.
 - ALL LIGHTING CONTACTORS SHALL BE N.O., ELEC HELD, 120V COIL, 30A, IN NAME 1 ENCLOSURE (TYP.); POLES AS REQUIRED WITH TWO (2) SPARE. CONTRACTOR TO REPLACE EXISTING CONTACTORS AS NECESSARY TO ACCOMPLISH THIS.

3 LUTRON DIMMING & EXTERIOR LIGHTING CONTROL SYSTEM DETAIL
E1.2 NOT TO SCALE



Issue Date: 04-26-2018

REVISION INFORMATION

NO.	DESCRIPTION
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7	
8	

Restaurant #: 1173

P1B (HIGH)
1711 GALLATIN RD
NORTH

MADISON, TN

ELECTRICAL
PANEL SCHEDULES,
RISER, & DETAILS

E1.2

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