

**LP5** **PANELBOARD** 208Y/120V, 3PH, 4W  
100 A MCB  
22K AIC, SERIES RATED  
SURFACE, NEMA 1

LOCATION: ELECTRICAL ROOM  
SUPPLY FROM: PANEL MDP  
UPSTREAM OCPD: 100 A  
SERVES: CASHIER, OFFICE, RECEPTACLES

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT		
1	CAT SCALE - SIGN (2,6)	6	20 A	1	1.50	0.54		1	20 A	12	TABACCO RACK - CASHIER	2		
3	CAT SCALE - INTERCOM (2,6)	10	20 A	1		0.30	0.18		1	20 A	12	REC - JUNGE PRINTER	4	
5	CAT SCALE - PUMPS (2,6)	6	20 A	1				1.40	1.68	1	20 A	12	ATM / LOTTO/COIN CLOUD (2)	6
7	SPARE FOR CAT SCALE	--	20 A	1	0.00	1.00				1	20 A	12	OIL/WATER CONTROL (2)	8
9	RECEPTACLES	20 A	1			0.18	0.36			1	20 A	12	REC - SECURITY MONITORS	10
11	BACKSTOCK MONITOR	12	20 A	1				0.18	0.72	1	20 A	12	REC - OFFICE COUNTER	12
13	REC - SECURITY MONITORS	12	20 A	1	0.36	1.40				1	20 A	12	REC - CASH RECYCLER	14
15							0.80			1	20 A	12	REC - SEC. CAM & DOOR STRIKE	16
17	LAPC1	10	30 A	1				2.50	0.36	1	20 A	12	REC - CCTV	18
19	LAPC2	10	30 A	1	2.34	0.10				1	20 A	12	LC1 PILOT	20
21	LAPC3	10	30 A	1			1.44	0.00		1	20 A	--	SPARE	22
23	SPARE	--	20 A	1				0.00	0.00	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0.00	0.00				1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0.00	0.00		1	20 A	--	SPARE	28
29	SPARE	--	20 A	1				0.00	0.00	1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0.00	0.00				1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0.00	0.00		1	20 A	--	SPARE	34
35	SPARE	--	20 A	1				0.00	0.00	1	20 A	--	SPARE	36
37	SPACE	--	1	--	--	--	--			1	--	SPACE	38	
39	SPACE	--	1	--	--	--	--			1	--	SPACE	40	
41	SPACE	--	1	--	--	--	--			1	--	SPACE	42	
					<b>TOTAL CONNECTED KVA:</b>	7.24 kVA	3.26 kVA	6.84 kVA						
					<b>TOTAL CONNECTED AMPS:</b>	64.92 A	27.17 A	61.59 A						

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	6.28 kVA	125.00%	7.85 kVA	
NON-CONTINUOUS	1.80 kVA	100.00%	1.80 kVA	<b>TOTAL CONN. LOAD: 17.34 kVA</b>
LIGHTING	1.50 kVA	125.00%	1.88 kVA	<b>TOTAL DEMAND LOAD: 19.39 kVA</b>
RECEPTACLES	5.96 kVA	100.00%	5.96 kVA	<b>TOTAL CONN. CURRENT: 48 A</b>
MOTORS	1.40 kVA	100.00%	1.40 kVA	<b>TOTAL DEMAND CURRENT: 54 A</b>
KITCHEN	0.00 kVA			
REFRIGERATION	0.00 kVA			
HVAC COOL	0.00 kVA	100.00%	0.00 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

**HWY1** **PANELBOARD** 208Y/120V, 3PH, 4W  
100 A MCB  
10K AIC, FULLY RATED  
SURFACE, NEMA 3R

LOCATION: HI-RISE SIGN  
SUPPLY FROM: UTILITY  
UPSTREAM OCPD: 100 A  
SERVES: HI-RISE SIGN SERVICE ENTRANCE RATED

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT		
1	TENANT SIGN (2,7)	12	20 A	1	1.00	1.44				1	20 A	12	LOVE'S LOGO SIGN (2,7)	2
3	PRICER SIGN LED (2)	10	30 A	1		1.80	0.00			1	20 A	12	LIGHTING CONTROL PILOT	4
5	PRICER SIGN LED (2)	10	30 A	1				1.80	1.08	1	20 A	12	LOVE'S HEART SIGN (2)	6
7	PRICER SIGN LED (2)	10	30 A	1	1.80	1.08				1	20 A	12	LOVE'S HEART SIGN (2)	8
9	PRICER SIGN LED (2)	10	30 A	1			1.80	0.00		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1				0.00	0.00	1	20 A	--	SPARE	12
					<b>TOTAL CONNECTED KVA:</b>	5.32 kVA	3.60 kVA	2.88 kVA						
					<b>TOTAL CONNECTED AMPS:</b>	45.26 A	30.92 A	24.00 A						

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	0.00 kVA			
NON-CONTINUOUS	0.00 kVA			<b>TOTAL CONN. LOAD: 11.80 kVA</b>
LIGHTING	11.80 kVA	125.00%	14.75 kVA	<b>TOTAL DEMAND LOAD: 14.75 kVA</b>
RECEPTACLES	0.00 kVA			<b>TOTAL CONN. CURRENT: 33 A</b>
MOTORS	0.00 kVA			<b>TOTAL DEMAND CURRENT: 41 A</b>
KITCHEN	0.00 kVA			
REFRIGERATION	0.00 kVA			
HVAC COOL	0.00 kVA	100.00%	0.00 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

**HWY2** **PANELBOARD** 208Y/120V, 3PH, 4W  
100 A MCB  
10K AIC, SERIES RATED  
SURFACE, NEMA 3R

LOCATION: STREET SIGN  
SUPPLY FROM: PANEL LP2  
UPSTREAM OCPD: 100 A  
SERVES: STREET SIGN

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT		
1	FOOD TENANT SIGN (2,7)	12	20 A	1	1.00	1.44				1	20 A	12	LOVE'S LOGO SIGN (2,7)	2
3	PRICER SIGN LED (2)	10	30 A	1		1.80	0.00			1	20 A	--	LIGHTING CONTROL PILOT	4
5	PRICER SIGN LED (2)	10	30 A	1				1.80	0.00	1	20 A	--	SPARE	6
7	PRICER SIGN LED (2)	10	30 A	1	1.80	0.00				1	20 A	--	SPARE	8
9	PRICER SIGN LED (2)	10	30 A	1			1.80	0.00		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1				0.00	0.00	1	20 A	--	SPARE	12
					<b>TOTAL CONNECTED KVA:</b>	4.24 kVA	3.60 kVA	1.80 kVA						
					<b>TOTAL CONNECTED AMPS:</b>	37.64 A	32.31 A	15.00 A						

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	0.00 kVA			
NON-CONTINUOUS	0.00 kVA			<b>TOTAL CONN. LOAD: 9.64 kVA</b>
LIGHTING	9.64 kVA	125.00%	12.05 kVA	<b>TOTAL DEMAND LOAD: 12.05 kVA</b>
RECEPTACLES	0.00 kVA			<b>TOTAL CONN. CURRENT: 27 A</b>
MOTORS	0.00 kVA			<b>TOTAL DEMAND CURRENT: 33 A</b>
KITCHEN	0.00 kVA			
REFRIGERATION	0.00 kVA			
HVAC COOL	0.00 kVA	100.00%	0.00 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

**PANELBOARD NOTES ( )**

- TERMINATE GROUND ON ISOLATED GROUND BUS.
- INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED.
- INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
- GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
- CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
- ROUTE CIRCUIT THROUGH CONTACTOR
- PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
- PROVIDE LISTED HANDLE-TIE BETWEEN CIRCUIT BREAKERS SHARING COMMON NEUTRAL FOR SIMULTANEOUS TRIP.
- REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- CONDUCTOR SIZE HAS BEEN INCREASED FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY. E.C. SHALL ADJUST CONDUCTOR SIZES AS NECESSARY.



HARRISON FRENCH & ASSOCIATES, LTD

1705 S. Walton Blvd., Suite 3  
Bentonville, Arkansas 72712  
www.hfa-ac.com

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STORE NUMBER: 860  
I-59, EXIT 1  
NICHOLSON, MS 39466  
JOB NUMBER: 03-23-30009

**ISSUE BLOCK**

NO.	DATE	DESCRIPTION

CHECKED BY: CAR  
DRAWN BY: SED  
DOCUMENT DATE: 2/7/2023  
PROTO: TIER 1 180  
PROTO CYCLE: Q4 - 2022



2023.02.07 14:23:47-06'00"

ELECTRICAL  
PANEL  
SCHEDULES

SHEET:  
**E603**