LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG #	DESCRIPTION	VOLTS	WATTS	MOUNTING	REMARKS
GGE	US LED	DS-402U-2-UNV-QB3-NC-1-L / ILB-CP12-A / RME1	LED WALL PACK / EMERGENCY BATTERY / EMERGENCY CAN	120	42.5	WALL	WALL PACK (NOTE 9)
H1	EATON	22SR-LD2-29-C-UNV-L850-CD1-U	2 X 2 LED RECESSED FIXTURE	120	23.4	WALL	ACRYLIC LENS
H1E	EATON	22SR-LD2-29-C-UNV-EL14W-L850-CD1-RH-U	2 X 2 LED RECESSED EMERGENCY FIXTURE	120	23.4	WALL	ACRYLIC LENS (NOTE 9)
HH	SECURITY LIGHTING	RWSC-72L-5K-UD-U-DB	EXTERIOR WALL WASH WITH UP AND DOWN LIGHT LED	120	25	WALL	SCONCE
S4	EATON	V4T2-LD4-6-UNV-L850-CD1-WL-U	4' LINEAR VAPORTITE LED STRIP LIGHT	120	57.3	SURFACE	MOUNT TO BOTTOM OF STRUCTURE
X1	LITHONIA	LQM S W 3 R 120/277 EL N M6	LED EXIT SIGN	120	0.62	CEILING/WALL	

1. LIGHT FIXTURES TO BE PROVIDED BY OWNER, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
2. PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
3. ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
4. ELECTRICAL CONTRACTOR SHALL INSTALL ALL CEILING MOUNTED LIGHTING FIXTURES IN LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
5. GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS, ELECTRICAL CONTRACTOR SHALL COORDINATE.
6. ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING, FRAMING MEMBER, AND LIGHT FIXTURE.
7. EMERGENCY LIGHTS SHALL HUG CEILINGS. IN NON-CEILING STORAGE ROOMS, LOCATE BOTTOM OF FIXTURES AT 12'-0" AFF.
8. PROVIDE DRYWALL FRAME KIT.
9. EMERGENCY FIXTURE WITH EMERGENCY BATTERY.

MDP

EXISTING PANELBOARD

208Y/120V, 3PH, 4W
2500A M.C.B.
100,000 AIC
SURFACE MOUNT
GROUND BAR
ISOLATED GROUND BAR

SERVES: DISTRIBUTION
LOCATION: EXTERIOR
FED FROM: UTILITY

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A		PHASE B		PHASE C		PL	BRKR	WIRE	LOAD SERVED	CK
1	panel lp1 (10)	--	800	3	57.5	34.3					3	400	--	panel lp2 (10)	2
3	--			-			58.4	39.0			-			--	4
5	--			-					58.7	33.3	-			--	6
7	panel lp3 (10)	--	225	3	17.9	9.74					3	125	--	panel lp5 (10)	8
9	--			-			18.7	9.90			-			--	10
11	--			-					18.3	11.2	-			--	12
13	panel mdp2 (10)	--	1200	3	51.0	29.3					3	400	--	PANEL LP6 (N,14)	14
15	--			-			51.3	26.2			-			--	16
17	--			-					51.4	25.1	-			--	18

	PHASE A	PHASE B	PHASE C	
TOTAL CONNECTED	199.7	203.4	198.1	KVA
TOTAL CONNECTED	1664.5	1695.1	1650.6	AMPS
TOTAL LOAD	601.2	KVA	1668.8	AMPS
PER NEC ARTICLE 220 FEEDER LOAD	601.9	KVA	1670.6	AMPS

LP6

NEW PANELBOARD

208Y/120V, 3PH, 4W
400A M.C.B.
42K AIC, SERIES RATED
SURFACE MOUNT
GROUND BAR

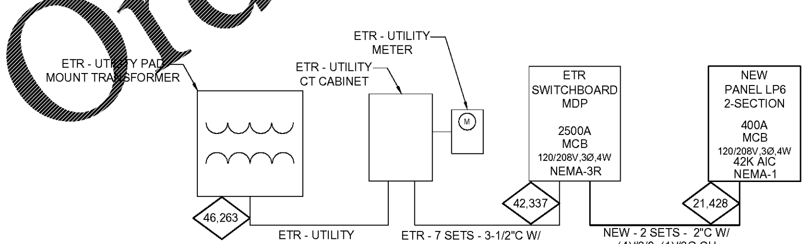
SERVES: LIGHTING & APPLIANCES
LOCATION: ELEC ROOM
FED FROM: PANEL MDP

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A		PHASE B		PHASE C		PL	BRKR	WIRE	LOAD SERVED	CK
1	LTG - PREP ROOM (N)	12	20	1	0.84	3.12					2	20	10	ISLAND MERCHANDISER (N,4)	2
3	CU-1 (N)	12	20	3			1.80	3.12			-			208V/1PH	4
5	208V/3PH			-					1.80	1.10	1	20	10	HOT FOOD MERCHANDISER (N,13)	6
7	--			-	1.80	1.10					1	20	10	HOT FOOD MERCHANDISER (N,13)	8
9	CU-2 (N)	12	15	3			1.80	0.20			1	20	10	CHILI/CHEESE DISP (N,13)	10
11	208V/3PH			-					1.80	1.32	1	20	10	HOT DOG GRILL (N,13)	12
13	--			-	1.80	1.32					1	20	10	HOT DOG GRILL (N,13)	14
15	HP-01 (N)	12	15	2			0.84	1.32			1	20	10	HOT DOG GRILL (N,13)	16
17	208V/1PH			-					0.84	1.32	1	20	10	HOT DOG GRILL (N,13)	18
19	ICED TEA BREWER (N,4)	12	20	1	1.70	1.85					1	20	12	HOT WATER DISP. (N,4)	20
21	COFFEE MAKER (N)	10	30	2			2.50	0.36			1	20	12	REC - DRINK BAR (N,4)	22
23	120/208V/1PH			-					2.50	1.64	1	20	12	FROZEN BEVERAGE DISP (N,4)	24
25	BEAN TO CUP (N)	12	20	2	1.66	0.00					1	20	--	SPARE (N)	26
27	208V/1PH			-			1.60	2.07			2	30	10	ICE MAKER (N)	28
29	CAPPUCHINO MACHINE (N)	10	30	1					1.80	2.07	-			120/208V/1PH	30
31	COFFEE MAKER (N)	10	30	1	2.50	2.07					2	30	10	ICE MAKER (N)	32
33	208V/1PH						2.50	2.07			-			120/208V/1PH	34
35	BEAN TO CUP (N)	12	20	2					1.60	1.02	1	20	12	POP/ICE DISPENSER (N,4)	36
37	208V/1PH			-	1.60	1.02					1	20	12	POP/ICE DISPENSER (N,4)	38
39	REFRIG - PREP TABLE (N,4)	12	20	1			0.54	0.54			1	20	12	REC - PREP ROOM (N,4)	40
41	WORKTOP REFRIG (N,4)	12	20	1					0.90	0.00	1	20	--	SPARE (N)	42
43	VECTOR OVEN (N,3)	8	40	3	3.96	1.00					1	20	12	DOOR HEATERS (N,2)	44
45	208V/3PH			-			3.96	0.03			1	20	12	LTG - EXT. EMERG. (N,3,8)	46
47	--			-					3.96	0.50	1	20	12	HEAT TAPE (N,2,5)	48
49	EP-2 (N)	12	20	1	0.22	1.75					1	20	12	LTG - PANAFLEX (N,8)	50
51	EP-1 (N)	12	20	2			0.92	0.00			1	20	--	SPARE (N)	52
53	208V/1PH	--		-					0.92	0.00	1	20	--	SPARE (N)	54
55	SPARE (N)	--	20	1	0.00	0.00					1	20	--	SPARE (N)	56
57	SPARE (N)	--	20	1			0.00	0.00			1	20	--	SPARE (N)	58
59	SPARE (N)	--	20	1					0.00	0.00	1	20	--	SPARE (N)	60
61	SPARE (N)	--	20	1	0.00	0.00					1	20	--	SPARE (N)	62
63	SPARE (N)	--	20	1			0.00	0.00			1	20	--	SPARE (N)	64
65	SPARE (N)	--	20	1					0.00	0.00	1	20	--	SPARE (N)	66
67	SPARE (N)	--	20	1	0.00	0.00					1	20	--	SPARE (N)	68
69	SPARE (N)	--	20	1			0.00	0.00			1	20	--	SPARE (N)	70
71	SPARE (N)	--	20	1					0.00	0.00	1	20	--	SPARE (N)	72
73	SPARE (N)	--	20	1	0.00	0.00					1	20	--	SPARE (N)	74
75	SPARE (N)	--	20	1			0.00	0.00			1	20	--	SPARE (N)	76
77	SPARE (N)	--	20	1					0.00	0.00	1	20	--	SPARE (N)	78
79	SPARE (N)	--	20	1	0.00	0.00					1	20	--	SPARE (N)	80
81	SPARE (N)	--	20	1			0.00	0.00			1	20	--	SPARE (N)	82
83	SPARE (N)	--	20	1					0.00	0.00	1	20	--	SPARE (N)	84

	PHASE A	PHASE B	PHASE C	
TOTAL CONNECTED	29.3	26.2	25.1	KVA
TOTAL CONNECTED	244.3	218.1	209.1	AMPS
TOTAL LOAD	80.6	KVA	223.6	AMPS
PER NEC ARTICLE 220 FEEDER LOAD	62.6	KVA	173.6	AMPS

100%	19.6	100%	19.6	KVA
125%	0.00	125%	0.00	KVA
LIGHTING	2.62	125%	3.28	KVA
MOTORS	2.68	100%	2.68	KVA
RECEPTACLES*	0.90	*	0.90	KVA
KITCHEN	53.3	65%	34.7	KVA
REFRIGERATION	1.44	100%	1.44	KVA
HVAC - COOLING**	0.00	100%	0.00	KVA
HVAC - HEAT**	0.00	0%	0.00	KVA
LARGEST MOTOR	0.00	25%	0.00	KVA
			62.6	KVA

*FIRST 10kVA AT 100% AND REMAINING AT 50%
**LARGEST OF COOLING OR HEATING



1 PARTIAL ONE-LINE DIAGRAM
SCALE: NTS

PANELBOARD NOTES ()

(1) TERMINATE GROUND ON ISOLATED GROUND BUS.
(2) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).
(3) INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
(4) GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
(5) GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
(6) CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
(7) FACTORY WIRED TO LOAD.
(8) THRU CONDUCTOR.
(9) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
(10) EXISTING CIRCUIT TO REMAIN.
(11) PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. IF CIRCUIT BREAKER IS IDENTIFIED AS "EXISTING", FIELD VERIFY CIRCUIT BREAKER INDICATED IS NOT CONNECTED TO ANY LOAD AND UPDATE PANELBOARD CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPARE".
(12) TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE COMPLETE TYPEWRITTEN PANELBOARD IDENTIFICATION SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE" THEN REFER TO PANELBOARD NOTE (11).
(13) CONDUCTOR SIZE HAS BEEN INCREASED FOR MORE THAN (3) CURRENT CARRYING CONDUCTORS IN A RACEWAY. E.C. SHALL ADJUST CONDUCTOR SIZES AS NECESSARY.
(14) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES
(15) RELOCATE CIRCUIT. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS
(N) NEW

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

EXISTING CIRCUITRY IS BASED ON ORIGINAL BUILDING PLANS. IF EXISTING CIRCUITS TO REMAIN ARE NOT AS SHOWN ON THE PANELBOARD SCHEDULES, ARRANGE NEW CIRCUITS BASED UPON PRESENT LOCATION OF EXISTING CIRCUITS TO REMAIN SHOWN IN LOWERCASE.

EC SHALL MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS.

ELECTRICAL SERVICE AND METERING ARE EXISTING TO REMAIN.

COORDINATE THE EXTENT OF ALL REQUIRED ELECTRICAL DEMOLITION WITH CONSTRUCTION MANAGER

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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HARRISON FRENCH & ASSOCIATES, LTD
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t 479.273.7780
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