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COMMERCIAL LOAD SUMMARY
 BUILDING AREA: 2,453 SQ. FT. VOLTAGE: 208Y/120V, 3PH, 4W

LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
INTERIOR LIGHTING	1,442	125%	0
EXTERIOR LIGHTING	0	125%	0
SIGNAGE	3,800	125%	4,750
MINIMUM GENERAL LIGHTING PER NEC-220 x 125%			8,133
MINIMUM TRACK LIGHTING/SHOW WINDOW PER NEC-220 x 125%			9,383
EXISTING	0	100%	0
RECEPTACLES	1,260	100%/50%	1,260
MISCELLANEOUS EQUIPMENT	13,999	100%	13,999
REFRIGERATION EQUIPMENT	10,428	100%	10,428
KITCHEN	23,988	85%	13,611
HWAC - SUMMER	32,258	100%	32,258
HWAC - WINTER	0	100%	0
SUPP. ELECTRIC HEAT	0	100%	0
MOTORS	8,723	100%	8,723
LARGEST MOTOR x 125%			1,122
SUB-TOTAL (VA)	92,652		92,652
SUB-TOTAL (AMPS)	257		257
SPARE CAPACITY			

PANELBOARD A (LANDLORD PROVIDED)

CKT #	CIRCUIT DESCRIPTION	BREAKER	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER	CIRCUIT DESCRIPTION	Ckt #	
					A	B	C						
1	ICE TEA BREWER	20	1	1,704	2,004			300	12	20	COPIER COMPUTER (F11-001)	2	
3	DRINK DISPENSER (S10-001)	20	1	1,536				360	12	20	COPIER WINDOW RCPTS	4	
5	CARBONATOR (S5-001)	20	1	584				0			SPARE	6	
7	COFFEE BREWER	20	1	1,536	2,520			900	12	20	ORDER ENTRY/CREDIT CARD PRINTER (U1-004)	8	
9	SAFE	20	1	500				1,200	12	20	DIGITAL MENU BOARDS	10	
11	MAKE TABLE (P2-004)	20	1	1,440				1,440	12	20	SPARE	12	
13	UPRIGHT FREEZER (R3-011)	20	1	1,344	1,488			2,392	12	25	HOLDING CABINET (S15-001)	14	
15	REFRIGERATOR (R4-013)	20	1	1,152				1,200	12	1	POINT OF SALE/PRINTER (U1-007)	16	
17	DRIVE-UP WINDOW POS	20	1	1,152				1,200	12	1	MONITORS (U1-006/U1-007A)	18	
19	ICE MACHINE (S17-003)	20	1	1,200	2,250			407	12	1	DIGITAL MENU BOARDS	20	
21	OPERATION MONITORS	20	1	386				600	12	1	TELE. TERM. BOARD & DEMARC.	22	
23	SALAD STATION (R3-015)	20	1	1,364				1,152	12	1	2-DOOR RETARDER (P4-007)	24	
25	DINING CONVENIENCE RCPTS	20	1	540	2,340			1,800	12	1	DISHWASHER (Z2-002)	26	
27	DUCT DETECTOR	20	1	12	1,356			1,152	12	1	2-DOOR RETARDER (P4-007)	28	
29	ALARM	20	1	12				600	12	1	ORDER ENTRY	30	
31	RTU-1	80	3	4	7,512			600	12	1	ORDER ENTRY/CREDIT CARD PRINTER (U1-004)	34	
33	RTU-1	80	3	4	8,572			8,177	12	1	BOTTLE COOLER (R2-006)	36	
37	RTU-2	80	3	6	14,210			8,322	12	1	PANELBOARD B*	40	
39	RTU-2	80	3	6	15,188			9,250	RD	3	150	PANELBOARD B*	42
41	RTU-2	80	3	6	14,210			8,322					42
PER PHASE SUB-TOTALS					34,943	29,088	26,612						
TOTAL CONNECTED PANELBOARD (VA)					92,652								
TOTAL CONNECTED PANELBOARD (AMPS)					257								
TOTAL PANELBOARD DEMAND (VA)					92,252								
TOTAL PANELBOARD DEMAND (AMPS)					257								

PANELBOARD B

CKT #	CIRCUIT DESCRIPTION	BREAKER	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER	CIRCUIT DESCRIPTION	Ckt #
					A	B	C					
1	EXTERIOR LIGHT CTRL. RELAY	20	1	180	1,344			1,164				2
3	DIGITAL MENU BOARD CONTACTOR	20	1	180		1,344		1,164	10	3	25	COOLER CONDENSER (W1-004)
5	INTERIOR LGT TIME SWITCH	20	1	180				1,164				4
7	SPARE	20	1	0	1,056			1,056				8
9	SPARE	20	1	0		1,056		1,056	12	3	20	FREEZER CONDENSER (W1-004)
11	PROOFER (P3-001)	20	1	1,750				1,956				10
13	RTU CONT. RCPTS	20	1	360	576			216	12	1	15	COOLER EVAPORATOR (W1-004)
15	SIGNAGE	20	1	1,200		1,314		1,114	12	2	15	FREEZER EVAPORATOR (W1-004)
17	FREEZER HEAT TAPE	20	1	804				816				16
18	SPARE	20	1	0	1,050			1,050	12	2	20	REMOTE CONDENSING UNIT
21	SPARE	20	1	0		1,050		1,050				22
23	SPARE	20	1	0				386	12	1	20	LPS (F09)
25	CARRY OUT SIGN	20	1	1,200	1,700			500	12	1	15	CAPTIVE AIRE CONTROL PANEL
27	EF-2	15	1	12	828			1,440	12	1	20	PIZZA OVEN (C3-042)
28	EF-3	15	1	12	828			1,368	12	1	20	PIZZA OVEN (C3-042)
31	FRYER CONTROLS & FILTER (C2-001)	20	1	504	1,344			1,440	12	1	20	PIZZA OVEN (C3-042)
33	SPARE	20	1	0		1,200		1,200	12	1	20	ACCENT BRAND - LED RLIN
35	RECIRCULATION PUMP	20	1	100				100	0	1	20	SPARE
37	W.H. CONTROLS	20	1	304	632			408	12	1	20	DINING AREA / EM LGT
38	HOOD ELEC. BOX	20	2	562		1,348		786	12	1	20	KITCHEN AREA / EM LGT
41	SPARE			0	562			228	12	1	20	RESTROOM / BOH / WALK-IN / EM LGT
PER PHASE SUB-TOTALS					6,302	9,262	8,222					
TOTAL CONNECTED PANELBOARD (VA)					25,264							
TOTAL CONNECTED PANELBOARD (AMPS)					72							
TOTAL PANELBOARD DEMAND (VA)					34,278							
TOTAL PANELBOARD DEMAND (AMPS)					95							

- KEYNOTES:**
- CIRCUITS TO BE WIRED THRU EXTERIOR LIGHTING CONTROL RELAY. SEE DETAIL 5/E5.0.
 - CIRCUITS TO BE WIRED THRU INTERIOR LIGHTING TIME SWITCH. SEE DETAIL 7/E5.0.
 - CIRCUITS TO BE WIRED THRU DIGITAL MENU BOARD CONTACTOR. SEE DETAIL 9/E5.0.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE AMERICANS WITH DISABILITIES ACT (ADA), AND ALL STATE AND LOCAL REQUIREMENTS AND CODES.
 - REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
 - REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
 - ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
 - THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
 - SEPARATE GREEN GROUND CONDUCTOR SHALL BE ROUTED IN ALL CONDUITS WITH ALL PHASE CONDUCTORS.
 - ISOLATED GROUND FOR P.O.S. SYSTEM SHALL BE CONTINUOUS FROM LAST OUTLET TO PANEL. DEDICATED CIRCUIT WITH SEPARATE ISOLATED GROUND WITH LESS THAN 0.5 OHM IMPEDANCE. TERMINATE AT NEUTRAL TO GROUND BUSS BAR INSIDE THE MAIN SOURCE PANEL.
 - ALL MECHANICAL EQUIPMENT SHALL BE COMPLETELY CONNECTED BY ELECTRICAL CONTRACTOR INCLUDING BOTH POWER AND CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
 - BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. ELECTRICAL CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUITS MAXIMUM AT 120/208V, 3 PH., 2 CIRCUITS MAXIMUM AT 120/240V, 3 PH. AND 1 PH.). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CONDUITS.
 - ALL EXTERIOR CONDUIT FOR ROOF MOUNTED EQUIPMENT AND WIRING SHALL BE MINIMIZED BY ROUTING IN CEILING SPACE. NO EXTERIOR CONDUIT WILL BE ACCEPTED.
 - ALL CONDUITS SHALL BE CONCEALED IN WALL SPACE, CEILING SPACE OR UNDER FLOOR, EXCEPT IN AREAS WITH EXPOSED STRUCTURE.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FOR LOW VOLTAGE WIRING, LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (I.E.; CONTROL, SECURITY SYSTEM, PHONE, DATA, ETC.).
 - COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING.
 - SEE ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONDUIT AND WIRE SIZE.
 - FINAL CONNECTION TO ALL DIRECT CONNECTED KITCHEN EQUIPMENT SHALL BE WITH U.L. APPROVED LIQUIDTIGHT CONDUIT. PROVIDE WITH GROUND WIRE SIZED PER N.E.C. ART. 250(206B).
 - BUILDING SIGNAGE CONNECTIONS INDICATED ON LIGHTING PLAN.
 - WIRE CONNECTION FROM JUNCTION BOX TO LAY-IN LIGHT FIXTURES MAY BE ENCASED IN FLEXIBLE CONDUIT, 6'-0" MAXIMUM.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICAL DEVICES AND WIRING TO COMPLY WITH N.F.P.A. 96-7-31.3 FOR POWER SHUTOFF ON ELECTRICAL EQUIPMENT UNDER OVEN HOOD. VERIFY INSTALLATION AND OPERATION REQUIREMENTS WITH EXTINGUISHING SYSTEM SUPPLIER. PROVIDE ONLY IF REQUIRED BY LOCAL CODE.

- ELECTRICAL LEGEND**
- 2X4 LED FIXTURE
 - 2X4 LED FIXTURE WITH BATTERY PACK
 - 1X4 FLUORESCENT FIXTURE
 - 2X2 FLUORESCENT FIXTURE
 - DOWNLIGHT FIXTURE
 - PENDANT MOUNTED LIGHT FIXTURE
 - TRACK MOUNTED PENDANT LIGHT FIXTURE
 - COOLER FIXTURE
 - EXHAUST HOOD FIXTURE
 - EXIT SIGN
 - COMPACT FLUORESCENT
 - SECURITY S TROBE
 - NIGHT LIGHT
 - CEILING MOUNTED SPEAKER
 - WALL MOUNTED SPEAKER
 - JUNCTION BOX
 - TELEPHONE OUTLET
 - DATA OUTLET
 - SIMPLEX RECEPTACLE - NEMA 5-20R UNLESS NOTED OTHERWISE
 - DUPLX RECEPTACLE - NEMA 5-20R UNLESS NOTED OTHERWISE
 - DOUBLE-DUPLX RECEPTACLE - NEMA 5-20R UNLESS NOTED OTHERWISE
 - RECEPTACLE DESIGNATIONS AS FOLLOWS:
 GF=GROUND FAULT INTERRUPTER
 S=SWITCHED
 IG=ISOLATED GROUND
 - CIRCUIT DESIGNATIONS AS FOLLOWS:
 A-1 CIRCUIT TO PANELBOARD A, CIRCUIT #1
 A-3.5.7 CIRCUIT TO PANELBOARD A, CIRCUIT #3.5.7
 REFERENCE PANELBOARD SCHEDULES FOR WIRE SIZES
 ALL CONDUIT SHALL HAVE EQUIPMENT GROUND WIRE
 NOTE - CONDUIT RUNS ARE SHOWN ON POWER PLANS FOR CLARITY.
 - SPECIAL PURPOSE RECEPTACLE. VERIFY WITH MANUFACTURER.
 - HEAVY DUTY RECEPTACLE - NEMA TYPE AS NOTED ON PLANS
 - FLOOR MOUNTED DUPLX RECEPTACLE
 - CEILING MOUNTED DUPLX RECEPTACLE
 - QUAD RECEPTACLE
 - ELECTRICAL PANELBOARD - SURFACE AND RECESSED MOUNTED
 - HOLD UP EMERGENCY BUTON
 - ELECTRICAL MOTOR
 - DUCT MOUNTED SMOKE DETECTOR
 - CONNECTION TO EQUIPMENT
 - DISCONNECT SWITCH
 60/3 = 60 AMP SWITCH, 3 POLE
 60/3/40 = 60 AMP SWITCH, 3 POLE, 40 AMP FUSE
 - PHOTOCELL
 - RAIN SENSOR
 - FLUORESCENT WALL MOUNT FIXTURE
 - SECURITY LIGHT
 - WALL TYPE OCCUPANCY SENSOR
 - CEILING TYPE OCCUPANCY SENSOR
 - SINGLE POLE WALL SWITCH
 - WALL SWITCH - DESIGNATIONS AS FOLLOWS:
 2=2-POLE
 3=3-WAY
 M=MOTOR RATED SWITCH
 DM=DIMMER
 4=4-WAY
 P=PILOT LIGHT
 H=LIGHTED HANDLE
 TS=TIMER (REFER TO PLANS)
 - SINGLE POLE, SINGLE THROW TOGGLE
 - CONDUIT RUN, CONCEALED IN WALL OR CEILING
 - CONDUIT RUN, UNDERGROUND
 - SMOKE DETECTOR
 - WP WEATHERPROOF
 - WP6 WEATHERPROOF, GROUND FAULT

CIRCUIT SCHEDULE:
 ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THWN INSULATION.

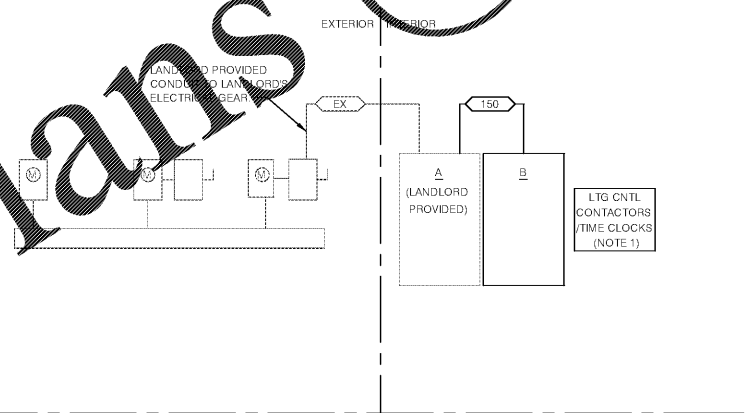
FEEDER SCHEDULE

FEEDER TAG	(QUANTITY) CONDUIT SIZE	(QUANTITY) CONDUCTOR SIZE	GROUND SIZE	ISOLATED GROUND SIZE
150	(1)1-1/2"C	(4)#1/0	(1)#6G	
EX	EXISTING CONDUIT AND CONDUCTORS TO REMAIN.			

NOTES:

- CONTRACTOR TO PROVIDE (FURNISH AND INSTALL) ALL ELECTRICAL EQUIPMENT SHOWN ON RISER DIAGRAM, UNLESS NOTED OTHERWISE.

NOTE:
 AVAILABLE FAULT CURRENT = 3750A. INFORMATION RECEIVED ON 08/17/18 FROM ISRAEL FIRE & ALABAMA POWER COMPANY. AFC CALCULATIONS BASED ON A ASSUMED DISTANCE BETWEEN UTILITIES, FROM SERVICE DISCONNECT BEING 50' WITH 2" OF 500 KCMIL. CONTRACTOR TO VERIFY ALL ASSUMPTIONS LISTED AND NOTIFY ENGINEER IF ANY INFORMATION DIFFERS.



Order Plans @