

ELECTRICAL SYSTEM AND EQUIPMENT:

METHOD OF COMPLIANCE

ENERGY CODE: ☒ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE
NUMBER OF LAMPS IN FIXTURE
BALLAST TYPE USED IN FIXTURE
NUMBER OF BALLAST IN FIXTURE
TOTAL WATTAGE PER FIXTURE
TOTAL NEW INTERIOR WATTAGE SPECIFIED VS. ALLOWED
(WHOLE BUILDING OR SPACE BY SPACE)
TOTAL NEW EXTERIOR WATTAGE SPECIFIED VS. ALLOWED

(SEE FIXTURE SCHEDULE)

1.1W/SQFT vs 1.3W/SQFT

NOT APPLICABLE

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- ☐ 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- ☒ 506.2.2 REDUCED LIGHTING POWER DENSITY
- ☐ 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
- ☐ 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
- ☐ 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
- ☐ AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the LOCAL ENERGY CODE.

SIGNED:

RANDALL W. STURGILL

TITLE:

ELECTRICAL DESIGN ENGINEER

ELECTRICAL CONTRACTOR SWITCH GEAR NOTES:

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW BREAKERS AS INDICATED

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING PANEL MDP1:

1-3P-350A BREAKER FOR PANEL A (65KA STYLE BREAKER)

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING PANEL MDP2:

1-3P-225A BREAKER FOR PANEL LD (65KA STYLE BREAKER)

1-3P-175A BREAKER FOR RACK OVEN (65KA STYLE BREAKER)

1-3P-45A BREAKER FOR COND A (65KA STYLE BREAKER)

COORDINATE FINAL REFRIGERATION SUMMARY WITH RISER DIAGRAM AND NOTIFY ENGINEER OF ANY DISCREPANCIES COORDINATE REFRIGERATION RACK(S) BREAKER WITH FINAL REFRIGERATION SUMMARY. PRIOR TO INSTALLATION.

THIS WORK SHALL BE COMPLETED EARLY IN THE PROJECT SEE EQUIPMENT DUTY REPORT IN ARC FLASH STUDY FOR DETAILS.

LOAD BREAKDOWN

SERVICE : 120/208V-3PH-4W

CONNECTED LOAD	CONNECTED KVA
ADDED LIGHTING	0.0
KITCHEN EQUIPMENT (NET ADDITION W/ DIV.)	7.8
ADDED HVAC	0.0
ADDED REFRIGERATION	0.0
ADDED RECEPTACLE LOADS	1.1
ADDED MISC. LOADS	29.0
ADDED TOTAL	37.9
EXISTING DEMAND LOAD: 277 KWD ($\frac{1}{3}$ PF)(1.25)	384.7
TOTALS:	422.6 KVA
	$\div \sqrt{3}$ 208V = 1174 AMPS

NOTE:

- EXISTING SERVICE LOAD HAS BEEN CALCULATED PER 220.87
- NEW REFRIGERATION RACK AND REFRIGERATION CONDENSER LOADS OFFSET BY REMOVAL OF EXISTING.
- NEW LIGHTING LOADS OFFSET BY REMOVAL OF EXISTING.

ELECTRICAL DEFICIENCIES TO BE REPAIRED

THE FOLLOWING ITEMS HAVE BEEN NOTED AS FOOD LION REQUIRED REPAIRS AS INDICATED ON THE CRESCENT CONSTRUCTION SERVICES, LLC ELECTRICAL SURVEY REPORT AND ALL COST INVOLVED WITH MAKING THE REPAIRS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK FOR THIS PROJECT. ELECTRICAL CONTRACTOR SHALL REFER TO THE CRESCENT CONSTRUCTION SERVICES, LLC ELECTRICAL SURVEY REPORT FOR ADDITIONAL INFORMATION AND REVIEW NOTES IN THIS LIST. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS, COMPRESSOR RACKS AND DISCONNECTS WITH PROPER PHENOLIC TAGS.

D-5	ELECTRICAL CONTRACTOR SHALL PROPERLY LABEL AND SCHEDULE ALL SWEAT MISER CIRCUITS	SEE SHEET E1.03, E6.01, E6.03, E6.04
D-8	THE ELECTRICAL CONTRACTOR SHALL TURN POWER OFF TO PANEL LA REMOVE LITE MISER PANEL, RECONNECT PANEL LA DIRECTLY TO MDP AND REMOVE CAUTION LABEL FROM PANEL LA	SEE SHEET E0.01, E6.04
D-12	ELECTRICAL CONTRACTOR SHALL SPLIT NEUTRALS ON ALL REFRIGERATION CASES THAT THE CASE LIGHT AND FANS SHARE NEUTRALS (THIS REFERS TO NEW AND RELOCATED CASE WORK ONLY, LIGHTS AND FANS ARE TO HAVE DEDICATED NEUTRALS.	SEE SHEET E1.03, E6.01
D-13	ELECTRICAL CONTRACTOR SHALL REMOVE DOUBLE TERMINATIONS (BREAKERS LB-32, LC-2,30, PB-33, PC-15,18,20, B-6,7,38,42, OW-2,24, CR-18) AND INSTALL PROPER BREAKER TIES ON E-19,21,23. BRANCH CIRCUIT PANEL BOARDS ARE NOT TO BE USED AS JUNCTION BOXES, REMOVE ANY JUNCTIONS IN BRANCH CIRCUIT PANEL BOARDS AND REMOVE ALL ADDITIONAL UNUSED WIRES.	SEE SHEET E4.01, E6.01
D-16,30,31,32,33,38,42,43,44,45,46,48	ELECTRICAL CONTRACTOR SHALL NOTE ALL SCHEDULES ARE TO BE 100% ACCURATE, ON CARD STOCK, TYPED, DATED, AND INSTALLED IN A CLEAR POCKET. E.C. SHALL GO THROUGH ALL EXISTING ELECTRICAL PANELS TO TRACE AND VERIFY ALL CIRCUITS FOR ACCURACY. RECEPTACLES AND LIGHTING ARE TO BE LABELED BY AREA/LOCATION. SALES FLOOR LIGHTING CIRCUITS ARE TO INCLUDE ROW NUMBER. CASE CIRCUITS ARE TO REFERENCE REFRIGERATION CIRCUITS. SPARE IS A BREAKER WITH NO WIRE, BLANK IS AN EMPTY SLOT. ALL WIRED AND ACTIVE BREAKERS SHALL BE PROPERLY SCHEDULED. NOTE: WIRED BREAKERS WITH NO ACTIVE LOAD / DEVICE SHALL BE LABELED AS SPARE WITH ENDING LOCATION NOTED. DO NOT REMOVE EXISTING PANEL SCHEDULES. ELECTRONIC COPIES OF ALL PANEL SCHEDULES ARE REQUIRED AT CLOSEOUT.	SEE SHEETS E4.01, E6.01 AND E6.04
D-17	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FINAL REFRIGERATION SUMMARY AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER BETWEEN IT AND THE ELECTRICAL DESIGN.	SEE SHEET E6.04
D-20	ELECTRICAL CONTRACTOR SHALL INSTALL EMERGENCY EGRESS LIGHTING AS SHOWN ON SHEET E1.01	SEE SHEET E0.01, E1.01
D-28	ELECTRICAL CONTRACTOR SHALL REPLACE 24 CIRCUIT PANEL PW WITH NEW 40 CIRCUIT PANEL OW	SEE SHEET E0.01, E1.02, E6.01, E6.04
D-29	ELECTRICAL CONTRACTOR SHALL IDENTIFY USE OF 5 RED CONDUCTORS WRAPPED WITH GREEN TAPE TERMINATED ON LOWER EQUIPMENT GROUND BAR IN PANEL CR, REPLACE, GROUNDING CONDUCTORS TO BE GREEN IN COLOR, ENTIRE LENGTH.	SEE SHEET E6.01
D-34	ELECTRICAL CONTRACTOR SHALL REMOVE DOUBLE TERMINATION ON BREAKER B-7 AND REPLACE (1) WHITE CONDUCTOR WRAPPED WITH BLACK TAPE TERMINATED ON BREAKER. REPLACE WITH PROPERLY COLORED CONDUCTOR, ENTIRE LENGTH, REMOVE DOUBLE TERMINATION, CONFIRM NO BREAKERS ARE OVERLOADED AND THAT ALL BREAKERS ARE CORRECTLY LABELED	SEE SHEET E4.01
D-35	ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LOADS AND CONNECTIONS ON ALL BREAKERS AFTER REMODEL, REPLACE B-12 WITH A NEW 20A-1P SWD OR HID TYPE BREAKER, CONFIRM NO BREAKERS ARE OVERLOADED AND THAT ALL BREAKERS ARE CORRECTLY LABELED	SEE SHEET E4.01
D-36,40,41,51,53	ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LOADS AND CONNECTIONS ON ALL BREAKERS AFTER REMODEL, REPLACE LA-13,38, LB-16, PB-37, B-8,10,12 WITH NEW 20A-1P BREAKER CONFIRM NO BREAKERS ARE OVERLOADED AND THAT ALL BREAKERS ARE CORRECTLY LABELED	SEE SHEET E4.01, E6.01
D-37	ELECTRICAL CONTRACTOR SHALL LABEL MDP-1 AND MDP-2 ENCLOSURE AND ALL BREAKERS IN MDP'S WITH PHENOLIC TAGS. ALL BRANCH CIRCUIT PANELS, SAFETY DISCONNECTS, ELECTRICAL DISTRIBUTION EQUIPMENT, MAIN BREAKERS AND MAIN SERVICE DISCONNECTS AND LABELED WITH PHENOLIC TAGS. PHENOLIC TAGS SHALL BE BLACK ON WHITE 1.5" TALL ALL TAGS SHALL COORDINATE WITH ARC FLASH REPORT	SEE SHEET E6.04
D-39	ELECTRICAL CONTRACTOR SHALL INSTALL WHITE PHASE TAPE ON RED CONDUCTOR FROM DEVICE ON ENCLOSURE IN PANEL LC TERMINATED TO RIGHT NEUTRAL BAR,	SEE SHEET E6.01
D-49,50	ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LOADS AND CONNECTIONS ON ALL BREAKERS AFTER REMODEL, COORDINATE FINAL LOADS AND BREAKER SIZE WITH REVISED PANEL SCHEDULE AND REFRIGERATION SUMMARY (IF APPLICABLE), CONFIRM NO BREAKERS ARE OVERLOADED AND THAT ALL BREAKERS ARE CORRECTLY LABELED (PB-14,36)	SEE SHEET E6.01
D-52	ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LOADS AND CONNECTIONS ON ALL BREAKERS AFTER REMODEL, THE ELECTRICAL CONTRACTOR SHALL SPLIT LOAD ON BREAKER LA-28, ACROSS LA-26,28, TO REDUCE LOAD TO LESS THAN 16A PER CIRCUIT PROPERLY IDENTIFY CIRCUITS, CONFIRM NO BREAKERS ARE OVERLOADED AND THAT ALL BREAKERS ARE CORRECTLY LABELED	SEE SHEET E6.01
D-56	ELECTRICAL CONTRACTOR SHALL REMOVE REFRIGERATION CABLING FROM PANEL PB, (PANEL USED AS RACEWAY), PLACE CABLING IN CONDUIT OUTSIDE OF PANEL.	SEE SHEET E6.01

