



### 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 1.1W/SQFT vs 1.3W/SQFT  
(WHOLE BUILDING OR SPACE BY SPACE)  
TOTAL NEW EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 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*  
NAME: RANDALL W. STURGILL  
TITLE: ELECTRICAL DESIGN ENGINEER

**ELECTRICAL CONTRACTOR SWITCH GEAR NOTES:**  
ELECTRICAL CONTRACTOR SHALL 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.  
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING MDP3:  
1-3P-175A BREAKER FOR RACK OVEN (65KA STYLE BREAKER)  
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING SDP:  
1-3P-175A BREAKER FOR RACK B (65KA STYLE BREAKER)  
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.)	0.0
ADDED HVAC	0.0
ADDED REFRIGERATION	0.0
ADDED RECEPTACLE LOADS	1.1
ADDED MISC. LOADS	6.4
ADDED TOTAL	7.5
EXISTING DEMAND LOAD: 200 KWD (1/3 PF)(1.25)	277.8
<b>TOTALS:</b>	<b>285.3 KVA</b>
	$\div \sqrt{3} \text{ 208V} = 792 \text{ AMPS}$

NOTE:  
1. EXISTING SERVICE LOAD HAS BEEN CALCULATED PER 220.87  
2. NEW REFRIGERATION RACK AND REFRIGERATION CONDENSER LOADS OFFSET BY REMOVAL OF EXISTING.  
3. 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-110, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150	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-116	ELECTRICAL CONTRACTOR SHALL INSTALL STRAIN RELIEF ON CORD DROPS FOR THE MEAT GRINDER IN THE MEAT PREP. WHERE A CONDUIT PASSES THROUGH AN INSULATED PANEL AND INTO A REFRIGERATED SPACE; THAT CONDUIT INTERIOR AND PENETRATION SHALL BE SEALED TO PREVENT MOISTURE TRANSFER AND ACCUMULATION.	SEE SHEET E1.02
D-121	ELECTRICAL CONTRACTOR SHALL REPAIR AND PROPERLY LABEL ALL LIGHTING EMERGENCY LIGHTING AND EMERGENCY LIGHTING CIRCUITS. CURRENTLY FED FROM C-40. LIGHTS AT BACK STOCK, PRODUCE COOLER, FRONT ENTRY WERE CONFIRMED TO NOT DROP CHARGE WHEN THE ABOVE CIRCUITS WERE DE-ENERGIZED. REPAIR, ALL EMERGENCY LIGHTING SHALL BE FED FROM A BRANCH CIRCUIT PANELBOARD, ON THE LINE SIDE OF ANY ENERGY MANAGEMENT CONTROLS (CONSTANT HOT), AND SHALL BE LABELED / SCHEDULED AS SUCH. EMERGENCY & NIGHT LIGHTING CIRCUITS SHALL BE DEDICATED, CONSTANT HOT, AND NOT BE MIXED WITH ANY GENERAL LIGHTING.	SEE SHEET E1.01, E6.04
D-122	THE ELECTRICAL CONTRACTOR SHALL REPLACE/INSTALL EMERGENCY LIGHTING IN THE RESTROOMS.	SEE SHEET E1.01
D-126	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-130	ELECTRICAL CONTRACTOR SHALL INSTALL/UPDATE EMERGENCY EGRESS LIGHTING AS SHOWN ON SHEET E1.01, REMOVE ANY EXISTING REMOTE BATTERY PACKS	SEE SHEET E0.01, E1.01
D-155	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-156	ALL DISTRIBUTION SECTIONS, BRANCH PANELS, MAIN BREAKERS AND DISCONNECTS SHALL HAVE PHENOLIC LABELS, (1 & 1/2" BLACK ON WHITE). MAIN BREAKER AND SAFETY DISCONNECT LABELING SHALL MATCH. ARC FLASH LABELS AND MECHANICAL DRAWINGS WILL DICTATE NAMING. LABELS CAN BE ORDERED FROM CD CONTROLS THE NATIONAL ACCOUNT BREAKER SUPPLIER. - REVIEW ALL EXISTING SINGLE POLE BREAKER SIZING, CORRECT AS NEEDED PER CODE AND EQUIPMENT NAMEPLATE. EMERGENCY & NIGHT LIGHTING CIRCUITS SHALL BE DEDICATED, CONSTANT HOT, AND NOT BE MIXED WITH ANY GENERAL LIGHTING.	SEE SHEET E6.04
D-157	ELECTRICAL CONTRACTOR SHALL PROPERLY LABEL ALL BREAKERS IN MDP1,2 WITH PHENOLIC TAGS (RED ON WHITE PHENOLIC) INDICATING 1 OF 6 MAIN DISCONNECTS UP THROUGH 5 OF 6 MAIN DISCONNECTS. ALL TAGS SHALL COORDINATE WITH ARC FLASH REPORT	SEE SHEET E6.04

NOTE:  
ALL DISTRIBUTION SECTIONS, BRANCH PANELS, MAIN BREAKERS AND DISCONNECTS SHALL HAVE PHENOLIC LABELS, (1 & 1/2" BLACK ON WHITE). MAIN BREAKER AND SAFETY DISCONNECT LABELING SHALL MATCH. ARC FLASH LABELS AND MECHANICAL DRAWINGS WILL DICTATE NAMING. LABELS CAN BE ORDERED FROM CD CONTROLS THE NATIONAL ACCOUNT BREAKER SUPPLIER. - REVIEW ALL EXISTING SINGLE POLE BREAKER SIZING, CORRECT AS NEEDED PER CODE AND EQUIPMENT NAMEPLATE. EMERGENCY & NIGHT LIGHTING CIRCUITS SHALL BE DEDICATED, CONSTANT HOT, AND NOT BE MIXED WITH ANY GENERAL LIGHTING.

