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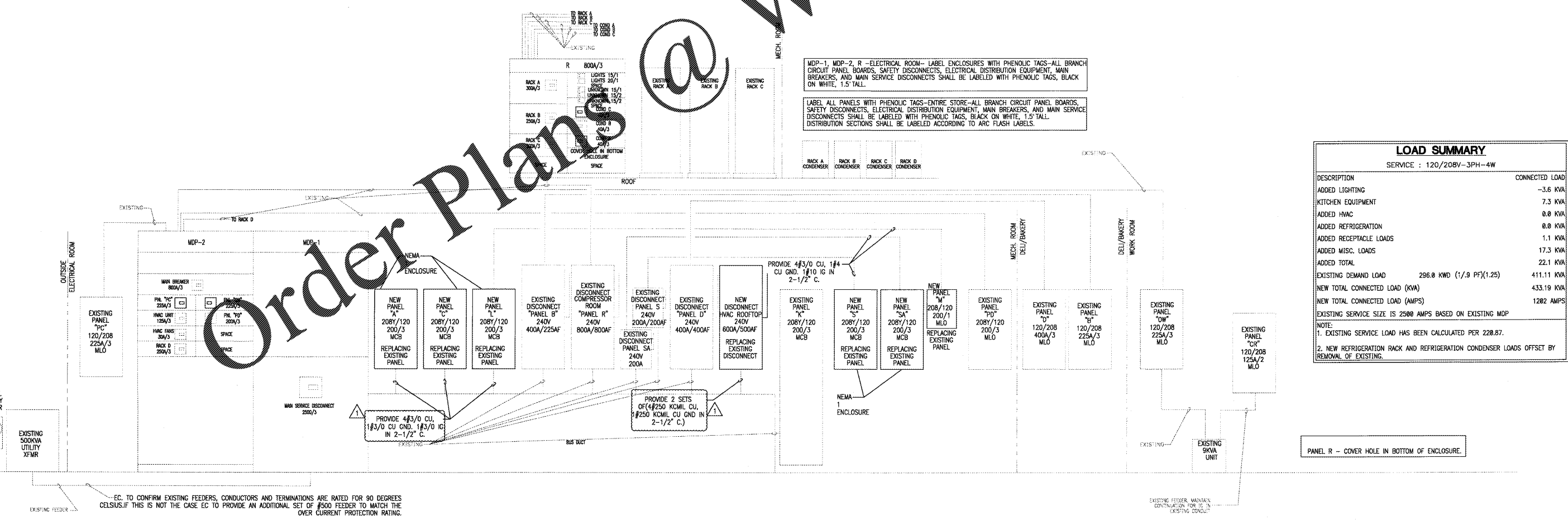
FOOD LION
REMODEL
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ELECTRICAL DEFICIENCIES TO BE REPAIRED

Table listing electrical deficiencies with columns for item ID, description, and reference sheet. Includes items like sweatmiser, deficient terminations, emergency lighting, and panel replacements.

Table listing electrical deficiencies with columns for item ID, description, and reference sheet. Includes items like panel D deadfront numbering, panel R enclosure, and panel A/B replacements.

GENERAL ELECTRICAL NOTES
1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT ADOPTED NFPA, NATIONAL ELECTRIC CODE, AND LOCAL CODES.
2. ALL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY APPROVED BY THIS STATE.
3. WIRING SHALL BE COPPER SINGLE CONDUCTORS. MINIMUM WIRE SIZE IS #12 AWG. CONDUCTORS #6 AND LARGER SHALL BE TYPE THHN OR THWN STRANDED. #12 THRU #10 SHALL BE THWN SOLID. WIRE TO LIGHT FIXTURES SHALL BE AS REQUIRED BY U.L. LABEL. COLOR CODE CONDUCTORS.
4. CONDUITS SHALL BE STEEL, INDOORS AND SCHEDULE 40 PVC OUTDOORS OR BELOW FLOOR SLAB. EMT SHALL BE USED FOR SIZES 1/2" THROUGH 3 1/2".
5. CONNECT ALL HVAC, PLUMBING AND OTHER CONTRACTOR OR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. CHECK EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH HVAC, PLUMBING, AND ALL OTHER EQUIPMENT CONTRACTORS FOR DISCONNECT SWITCH, CONDUIT, WIRING REQUIREMENTS, FUSE AND BREAKER SIZES, VOLTAGE REQUIREMENTS AND LOCATIONS. PROVIDE A TIMER FOR ALL PLUMBING RECIRCULATION PUMPS. MAKE ALL NECESSARY REVISIONS TO THESE ITEMS AT NO ADDITIONAL COST TO THE OWNER.
6. ELECTRICAL CONTRACTOR SHALL LOAD DATA SHEET, TO THE POWER COMPANY, AT THE BEGINNING OF THE PROJECT, AS PER LOAD BREAKDOWN SHOWN ON PLANS.
7. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER. EXCEPTION: INCANDESCENT LIGHT BULBS SHALL BE GUARANTEED FOR 30 DAYS.
8. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMISSION OF BID TO FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THE EXTENT OF WORK REQUIRED. INCLUDE ALL COST IN BID PRICE.
9. SUPPORT ALL CONDUITS WITH STRAPS AND CLAMPS. RUN ALL CONDUIT PARALLEL OR PERPENDICULAR TO BUILDINGS.
10. ELECTRICAL DEMOLITION, RELOCATION OF EXISTING EQUIPMENT, CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THIS NEW WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THE EXTENT OF THE WORK REQUIRED SHALL BE DETERMINED DURING THE PRE-BID JOBSITE VISIT.
11. ALL STRAPPING OF CONDUIT SHALL COMPLY WITH ARTICLE 1621 OF THE INTERNATIONAL BUILDING CODE.
12. FOR ALL BREAKERS AND DEVICES:
A. SERIES RATING NOT ALLOWED.
B. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANEL BOARDS SHALL PROVIDE A COORDINATION STUDY AND A SHORT CIRCUIT STUDY, AND ARC FLASH ANALYSIS TO DETERMINE ALL SETTINGS OF ELECTRONIC BREAKERS, OI SETTINGS, AND ADJUSTABLE TRIP SETTINGS ON ALL NON-ELECTRONIC BREAKERS. THESE SETTINGS SHALL BE INCLUDED IN THE SHOP DRAWINGS FOR THE ENGINEER'S REVIEW. SHOP DRAWINGS WILL BE REJECTED IF SETTINGS ARE NOT INCLUDED. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANELBOARDS SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION FROM THE GENERATOR MANUFACTURER, HVAC MANUFACTURER, FIELD VERIFYING ANY EXISTING BREAKERS, OR OBTAINING ANY PIECE OF BREAKER DATA WHICH WILL BE NEEDED FOR THE COORDINATION STUDY.
C. THE ELECTRICAL CONTRACTOR TO PROVIDE ARC FLASH LABELS ON ALL PANELS AS REQUIRED PER N.E.C. LABELING SHALL INCLUDE:
1. THE PANEL NAME
2. THE CLASSIFICATION
3. THE SHOCK HAZARD LEVEL WHEN COVER IS REMOVED AND LIMITED.
4. THE PROTECTION REQUIRED.
5. THE RESTRICTED AND PROHIBITED APPROACH BOUNDARIES.
D. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANELBOARDS SHALL SELECT BREAKERS THAT ARE CAPABLE OF BEING ADJUSTED TO ALLOW FOR A MAXIMUM ARC FLASH RATING OF 3.
13. PROVIDE MIN. 24" HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF A SAME WALL AS INDICATED IN N.E.C. 300.21
14. ALL DISCONNECTS SHALL BE HEAVY DUTY RATED, WITH ARC GUARD, AND SHALL HAVE A MECHANICAL INTERLOCK TO PREVENT THE DOOR FROM BEING OPENED, WITHOUT DEFEATING THE INTERLOCK. THE MECHANICAL INTERLOCK SHALL ALSO PREVENT ACTIVATING THE SWITCH WHEN THE DOOR IS OPEN. THE MECHANICAL INTERLOCK SHALL BE DEFEATABLE BY A SPECIAL TOOL, AND SHALL BE U.L. LISTED AS PART OF THE DISCONNECT.
15. SERVICE GROUND IMPEDANCE SHALL BE MEASURED, AND SHALL BE 5 OHMS OR LESS. IF UPON MEASUREMENT, SERVICE GROUND READING EXCEEDS 5 OHMS, THEN ADDITIONAL GROUND RODS SHALL BE DRIVEN TO REDUCE READING TO 5 OHMS OR LESS. NOTIFY ENGINEER OF FINAL SERVICE GROUND MEASUREMENT.
16. BREAKERS THAT FEED CONTACTORS AND TIME CLOCKS TO BE CURRENT LIMITING TO ALLOW A MAXIMUM LET THRU OF 22K AIC WITH 80K AIC AVAILABLE.
17. ALL TERMINATIONS ON PANELS SHALL HAVE DUAL RATED 60%/75% LUGS.
18. PROVIDE INTERNAL OR EXTERNAL DISCONNECTING MEANS FOR EACH FLUORESCENT LUMINAIRE THAT UTILIZES DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE TO COMPLY WITH N.E.C. 410.130(C).
19. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET NEC 210.4. NO SHARED NEUTRALS OR MULTIPLE BRANCH BREAKERS.
20. SERVICE CONDUCTORS SHALL CONFORM TO N.E.C. 230.6
21. ALL METAL BALLAST SHALL BE PULSE START TYPE.
22. ALL TELECOMMUNICATIONS CONDUIT, SLEEVES, OR PATHWAYS ARE TO BE LONG SWEEPING TYPE. ALL CONDUITS (BENDING RADIUS) ARE TO BE INSTALLED PER MANUFACTURER'S AND TELECOM CONTRACTOR'S RECOMMENDATIONS.
23. THE ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE INTERIORS OF ALL PANELS AND SWITCHGEAR IN WHICH BREAKERS ARE BEING INSTALLED, AND VERIFY THAT ALL INTERIOR BUSSING AND FRAMES ARE AVAILABLE PRIOR TO SUBMISSION OF BID. ANY ADDITIONAL BUSSING REQUIRED WITHIN PANELS AND SWITCHGEAR SHALL BE INCLUDED IN BID PRICE.
24. ALL EGRESS LIGHTING SHALL COMPLY WITH N.C. BUILDING CODE SECTION 1006.2. THE ELECTRICAL CONTRACTOR SHALL VERIFY THIS IN THE FIELD AND ADD ADDITIONAL EMERGENCY LIGHTS IF REQUIRED.
25. NO OPEN FLAME DEVICES SHALL BE UTILIZED TO BEND PVC CONDUIT. ALL HEATING DEVICES MUST BE ENCLOSED FLAME (HEAT GUN OR HEAT ROLLER, NO TORCHES). ALL HEATING METHODS MUST BE APPROVED BY ELECTRICAL ENGINEER PRIOR TO INSTALLATION. ANY CONDUIT THAT HAS BEEN HEATED TO WHERE PVC IS DAMAGED OR DISCOLORED SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
26. ELECTRICAL CONTRACTOR TO VERIFY REFRIGERATION CIRCUITS ARE NOT OVERLOADED, LARGEST SIZE OF BREAKERS TO BE 30A FOR A/S AND LIGHTS, 15A ON CASE FANS (TYP.).
27. ENERGY MANAGEMENT SYSTEM LIMITS COINCIDENTAL DEMAND PER MOP TO LESS THAN 800 AMPS, ALLOWING FOR MORE THAN 20% SPARE CAPACITY. NO FUTURE EXPANSIONS ARE PLANNED. PANEL SIZE SHALL NOT BE INCREASED WITHOUT PRIOR APPROVAL OF OWNER.
28. FOR PANEL REQUIREMENTS VERIFY WITH REFRIGERATION SUMMARY. REFRIGERATION SUMMARY SHALL GOVERN DESIGN.
29. ELECTRICAL CONTRACTOR TO REMOVE ANY MULTIPLE LANCED CONDUCTORS ON A SINGLE BREAKER AND CONNECT EACH CONDUCTOR TO A SINGLE BREAKER.
30. ALL CIRCUITS FEEDING CASES SHALL BE LABELED WITH CASE REFRIGERATION CIRCUIT NUMBER ALONG WITH CASE TYPE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS.
31. ELECTRICAL CONTRACTOR VERIFY ALL CIRCUITS AND REMOVE ANY UNUSED CONDUCTORS IN ALL PANELS (FIELD VERIFY EACH BREAKER)
ELECTRICAL CONTRACTOR SHALL ENSURE THE FOLLOWING ITEMS ARE COMPLETE PRIOR TO CRESCENT COMMISSIONING VISIT:
1. REPLACE ALL MISSING, BROKEN, OR OTHERWISE DEFICIENT JUNCTION BOX/DEVICE COVERS FOR PROJECT CLOSEOUT. NON WEATHER PROOF DEVICE COVERS ARE TO BE STAINLESS STEEL WEATHERPROOF DEVICE COVERS ARE TO BE INSTALLED IN PREP AREAS AND OUTSIDE. ALL WPC COVERS ARE TO BE AL (ALUMINUM). SEE CRESCENT REPORT FOR FURTHER INFO.
2. PROPERLY SEAL ALL CONDUITS ENTERING WALK-IN COOLERS AND FREEZERS TO PREVENT MOISTURE. SEE CRESCENT REPORT FOR FURTHER INFO.
3. PROVIDE AND INSTALL FOUR (4) 1" EMPTY CONDUITS WITH PULL STRINGS FROM NEW PANEL "OW" TO ABOVE ACCESSIBLE CEILING SPACE FOR FUTURE USE.
4. REPLACE ALL MISSING LABELS AND TAGS ON PANELS, SAFETY DISCONNECTS, ELECTRICAL DISTRIBUTION EQUIPMENT MAIN BREAKERS. ALL CIRCUITS SHOULD BE PROPERLY LABELED WITH PHENOLIC TAGS, BLACK ON WHITE, 1.5" TALL. COORDINATE PHENOLIC TAG LABELS WITH ARCH FLASH REPORT PROVIDED BY CRESCENT.
5. VACUUM ALL BRANCH CIRCUIT PANELBOARDS AND ALL ELECTRICAL ENCLOSURE COVERS SHALL BE INSTALLED AND ADEQUATELY SECURE TO OBTAIN PROJECT CLOSEOUT. SEE CRESCENT REPORT FOR FURTHER INFO.
6. PLACE REFRIGERATION CONTROL CABLE IN CONDUIT.
7. THE UP ALL LOW VOLTAGE AND MC CABLE. NO NEW MC CABLE IS TO BE INSTALLED AS A HOME RUN OR BE VERTICALLY EXPOSED ON A WALL/ CONSTRUCTED ASSEMBLY.
8. VERIFY ALL EMERGENCY LIGHTING BE ON A SCHEDULED CIRCUIT AND ON THE LINE SIDE OF ANY ENERGY MANAGEMENT CONTROL.
9. PROVIDE AND INSTALL CORRECTED TYPE-WRITTEN DATED PANEL SCHEDULES IN ELECTRICAL PANELS (NEW AND EXISTING) AT THE END OF THE PROJECT. HAND WRITTEN SCHEDULES SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
10. ALL NEW DISCONNECTS SHALL BE GENERAL ELECTRIC, GENERAL DUTY AT MINIMUM ER RATED AS REQUIRED, AND NON FUSED UNLESS SPECIFIED OTHERWISE BY EQUIPMENT NAMEPLATE.
11. TRACE ALL CIRCUITS AND PROPERLY IDENTIFY THOSE CIRCUITS ON THE PANEL SCHEDULES. WHERE THE FOOD LION CONSTRUCTION SUPERVISOR HAS DIRECTED THE ELECTRICAL CONTRACTOR TO LEAVE A SPARE BREAKER WIRED TO A CERTAIN END LOCATION, THE BREAKER SHALL BE LABELED "SPARE TO JUNCTION BOX AT END LOCATION." ALL SPARE UNUSED BREAKERS SHALL HAVE UNUSED WIRE REMOVED AND BREAKER LABELED AS SPARE.
12. CORRECT TERMINATIONS IN SWEAT MISER PANEL. SEE CRESCENT REPORT FOR FURTHER INFO.



EC TO CONFIRM EXISTING FEEDERS, CONDUCTORS AND TERMINATIONS ARE RATED FOR 90 DEGREES CELSIUS. IF THIS IS NOT THE CASE EC TO PROVIDE AN ADDITIONAL SET OF #500 FEEDER TO MATCH THE OVER CURRENT PROTECTION RATING.

Order Plans @

LOAD SUMMARY
SERVICE : 120/208V-3PH-4W
DESCRIPTION CONNECTED LOAD
ADDED LIGHTING -3.6 KVA
KITCHEN EQUIPMENT 7.3 KVA
ADDED HVAC 0.8 KVA
ADDED REFRIGERATION 0.8 KVA
ADDED RECEPTACLE LOADS 1.1 KVA
ADDED MISC. LOADS 17.3 KVA
ADDED TOTAL 22.1 KVA
EXISTING DEMAND LOAD 296.8 KWD (1/3 PF)(1.25) 411.11 KVA
NEW TOTAL CONNECTED LOAD (KVA) 433.19 KVA
NEW TOTAL CONNECTED LOAD (AMPS) 1282 AMPS
EXISTING SERVICE SIZE IS 2500 AMPS BASED ON EXISTING MDP
NOTE:
1. EXISTING SERVICE LOAD HAS BEEN CALCULATED PER 220.87.
2. NEW REFRIGERATION RACK AND REFRIGERATION CONDENSER LOADS OFFSET BY REMOVAL OF EXISTING.

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