

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:

NAME:

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 MDP2:
1-3P-225A BREAKER FOR PANEL OW (65KA STYLE BREAKER)
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING PANEL MDP3:
REPAIR BOLTED PRESSURE SWITCH FEEDING PANEL R
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING PANEL PDC:
1-3P-150A BREAKER FOR PANEL B (65KA STYLE BREAKER)
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL IN EXISTING PANEL R:
1-3P-300A BREAKER FOR RACK C (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.)	21.2
ADDED HVAC	0.0
ADDED REFRIGERATION	0.0
ADDED RECEPTACLE LOADS	1.1
ADDED MISC. LOADS	29.0
ADDED TOTAL	51.3
EXISTING DEMAND LOAD: 307 KWD ($\frac{1}{9}$ PF)(1.25)	426.3
TOTALS:	477.7 KVA

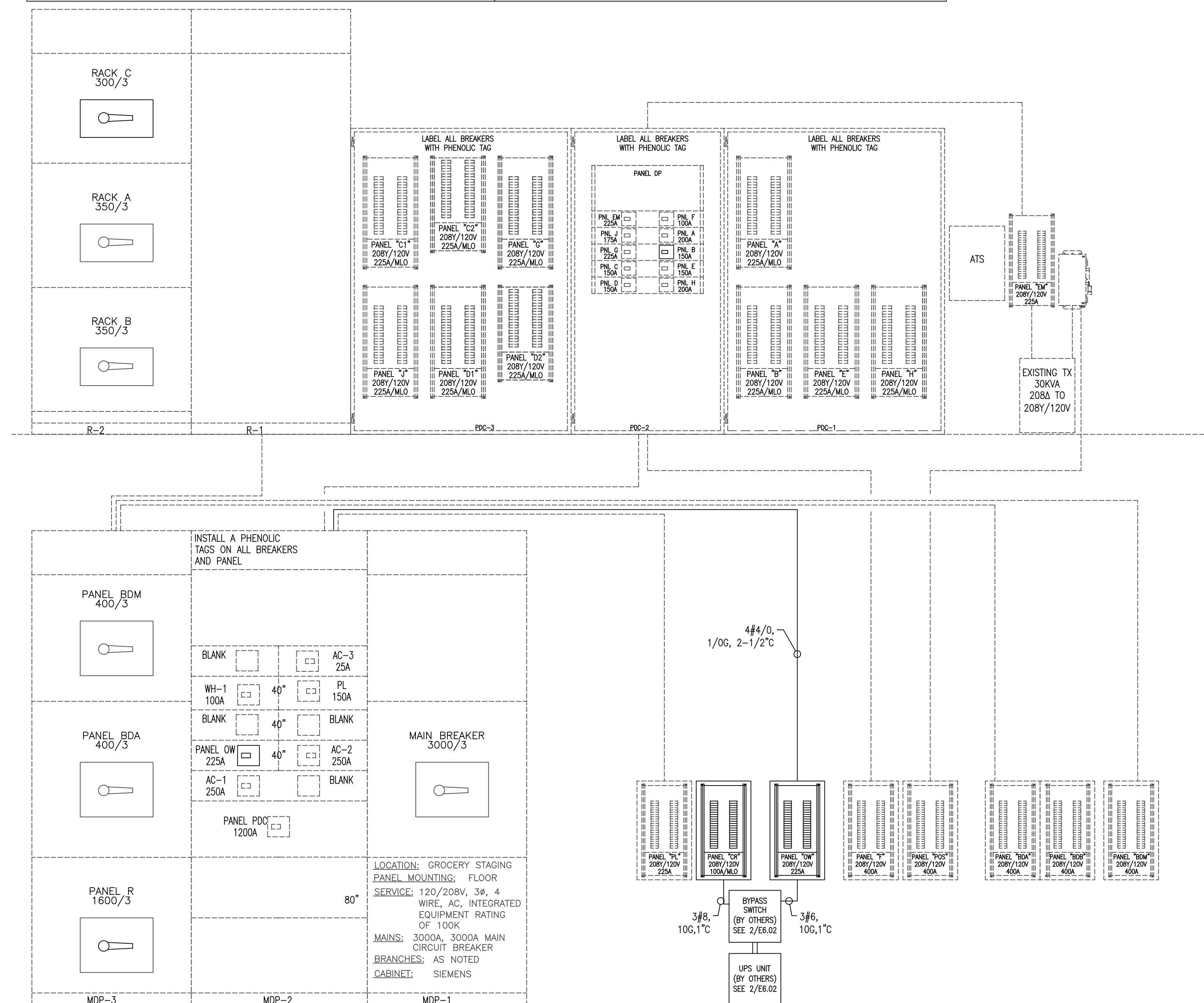
$\div \sqrt{3}$ 208V = 1326 AMPS

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-3	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION SUPERVISOR THE REMOVAL OF EXISTING GENERATOR	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 CR-1,14, PC-34, PB-5,7) AND INSTALL PROPER BREAKER TIES ON PB-14,16,18. 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-16,28,29,33,34,35,36,37,58,59,62,63,66,69,70,74,77,78	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-27	ELECTRICAL CONTRACTOR REPLACE THE BREAKER FEEDING PANEL B WITH A NEW 150A-3P BREAKER TO COORDINATE WITH EXISTING FEEDERS.REPLACE BREAKERS WITH 65KA STYLE BREAKERS. ELECTRICAL CONTRACTOR SHALL COORDINATE ORDER AND DELIVERY WITH NATIONAL ACCOUNT VENDOR FOR ELECTRICAL GEAR. NO HOT WORK IS ALLOWED	SEE SHEET E6.01, E6.04
D-30	ELECTRICAL CONTRACTOR REPLACE THE BOLTED PRESSURE SWITCH FEEDING PANEL R IN MDP-3. REPLACE BREAKERS WITH 65KA STYLE BREAKERS. ELECTRICAL CONTRACTOR SHALL COORDINATE ORDER AND DELIVERY WITH NATIONAL ACCOUNT VENDOR FOR ELECTRICAL GEAR. NO HOT WORK IS ALLOWED	SEE SHEET E6.01, E6.04
D-31	ELECTRICAL CONTRACTOR REPAIR CIRCUIT PL-5,7 (CURRENTLY TRIPPED)	SEE SHEET E6.01, E6.04
D-48,56,57	ELECTRICAL CONTRACTOR SHALL LABEL MDP-1,2,3, PDC, AND PANEL R ENCLOSURE AND ALL BREAKERS IN MDP-1,2,3, PDC, AND PANEL R, 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-51	ELECTRICAL CONTRACTOR REPAIR GREEN CONDUCTOR TERMINATED ON RIGHT NEUTRAL BAR FOR LIGHTING ARRESTER IN PANEL A, ALL EGC'S TO BE TERMINATED TO CAN.	SEE SHEET E6.01, E6.04
D-52,53	ELECTRICAL CONTRACTOR REPAIR ALL HOT TERMINATIONS ON CONTACTORS IN PANEL PDC3	SEE SHEET E6.01, E6.04
D-55	ELECTRICAL CONTRACTOR REPLACE DISCONNECT FEEDING RTU-1 IN NEW NON-FUSED DISCONNECT (SIZED AS PER EQUIPMENT NAME PLATE)	SEE SHEET E1.02, E6.04

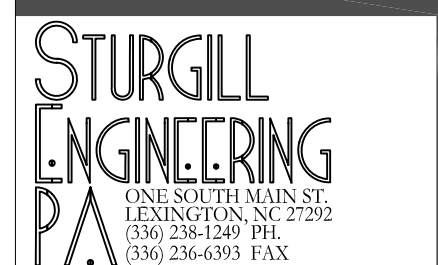


EXISTING SERVICE ENTRANCE FROM POWER COMPANY
EXISTING SERVICE GROUND TO REMAIN

1
E6.04
ELECTRICAL RISER DIAGRAM
SCALE : NONE



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Revisions:

ELECTRICAL RISER
DIAGRAM AND
NOTES

Electrical
E6.04

YCH Commission Number

19029.00

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