

**1 POWER RISER DIAGRAM**  
SCALE: NOT TO SCALE

- RISER NOTES:**
- ◇ COORDINATE PROGRAMMING OF LIGHTING CONTACTOR BASED ON RESTAURANT HOURS OF OPERATION
  - ◇ PROVIDE ISOLATED GROUND BUS BAR FOR PANEL B.
  - ◇ PROVIDE ISOLATED GROUND BUS BAR FOR PANEL A.
  - ◇ LOAD CENTER FURNISHED BY OTHERS, WIRED BY EC.

**ELECTRICAL SYSTEM AND EQUIPMENT (2018 NC ENERGY CODE)**

**Method of Compliance:**  
 Energy Code:  Prescriptive  Performance  
 ASHRAE 90.1:  Prescriptive  Performance

**Lighting Performance**  
 Total interior wattage specified vs allowed: 1958W SPECIFIED / 2200W ALLOWED  
 Total exterior wattage specified vs allowed: 791W SPECIFIED / 1152W ALLOWED

**Additional Prescriptive Compliance**

- C406.2 More efficient HVAC equipment performance.
- C406.3 Reduced lighting power density.
- C406.4 Enhanced digital lighting controls.
- C406.5 On-Site renewable energy.
- C406.6 Dedicated outdoor lighting system.
- C406.7 Reduced energy use in space water heating.

**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 North Carolina State Building Code, NC 2018 Energy Code.

**FREEZER/COOLER EQUIPMENT CONNECTION SCHEDULE**

EQUIPMENT	LOAD	VOLTAGE/ PHASE	TYPE	RATING	DISCONNECT	FUSES	ENCLOSURE	CONDUCTORS		RACEWAY		MOCP
								TYPE	SIZE	TYPE	SIZE	
FREEZER - CONDENSER (CU-F)	9.3 RLA, 1.2 FLA	208	REFER TO POWER PLANS	◇				3#12,1#21G	LFMC	1/2"	20	
FREEZER - UNIT (EVAP-F)	1.0 FLA, 9.8 FLA	208/1	REFER TO POWER PLANS	◇				2#12,1#12G	FMC	1/2"	15	
COOLER - CONDENSER (CU-C)	5.3 RLA, 1.1 FLA	208/3	REFER TO POWER PLANS	◇				3#12,1#12G	LFMC	1/2"	15	
COOLER - UNIT (EVAP-C)	1.6 FLA	208/1	REFER TO POWER PLANS	◇				2#12,1#12G	FMC	1/2"	15	

**LEGEND**

<b>DISCONNECT TYPES</b>	<b>DISCONNECT ENCLOSURE TYPES</b>	<b>RACEWAY TYPES</b>	<b>STARTER TYPES</b>
ETCB = ELECTRONIC-TRIP CIRCUIT BREAKER	1 = NEMA ENCLOSURE	EMT = ELECTRIC METALLIC TUBING	CFVNR = COMBINATION FULL VOLTAGE, NONREVERSING
FDS = FUSIBLE DISCONNECT SWITCH	2 = NEMA ENCLOSURE	FMC = FLEXIBLE METAL CONDUIT	
MCP = MOTOR CIRCUIT PROTECTOR	3 = NEMA ENCLOSURE	IMC = INTERMEDIATE METAL CONDUIT	
NFDS = NON-FUSIBLE DISCONNECT SWITCH	4X = NEMA 4X ENCLOSURE	LMC = LIQUID-TIGHT FLEXIBLE METAL CONDUIT	<b>CONTROL DEVICES</b>
ST/DS = COMBINATION STARTER/DISCONNECT SWITCH		PVC = NON-METALLIC PVC CONDUIT	HOA = HAND-OFF-AUTO
TMCB = THERMAL-MAGNETIC CIRCUIT BREAKER		RMC = RIGID METAL CONDUIT	RPL = RED PILOT LIGHT
TOG = TOGGLE SWITCH			AUX = AUXILIARY CONTACTS (2 N.O., 1 N.C.)
C/DS = COMBINATION CONTACTOR/DISCONNECT SWITCH			CT50 = 50 VA CONTROL TRANSFORMER

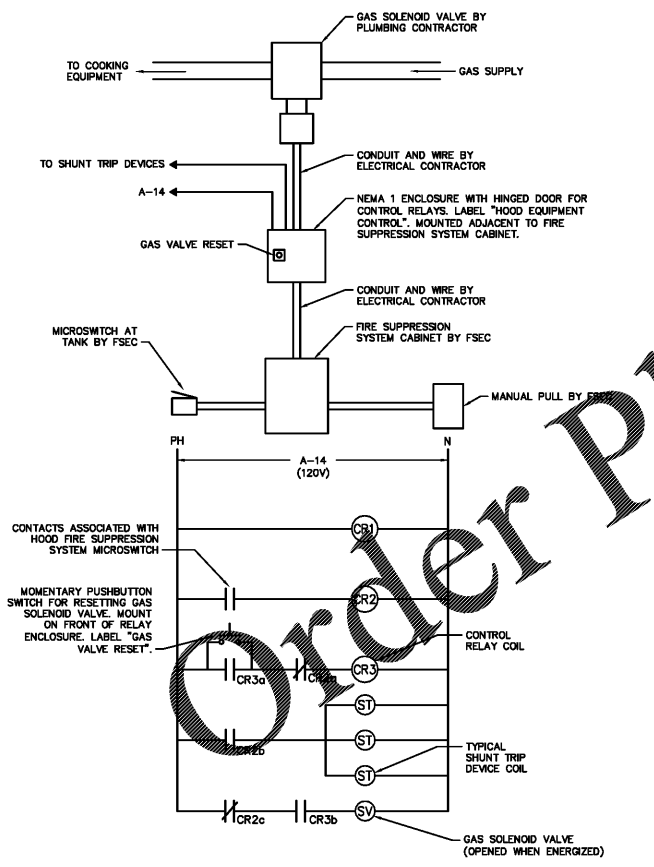
**NOTES:**

ALL ELECTRICAL CHARACTERISTICS SCHEDULED ABOVE ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH EQUIPMENT SUPPLIER(S) PRIOR TO ROUGHING, AND SHALL VERIFY EXACT LOCATION AND EXACT TYPE OF CONNECTION. ALL EQUIPMENT SHALL BE PROPERLY AND SECURELY GROUNDED. ANY SIGNIFICANT CHANGES IN LOCATION, ELECTRICAL REQUIREMENTS, OR TYPE OF CONNECTION REQUIRED FOR ANY EQUIPMENT SCHEDULED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING.

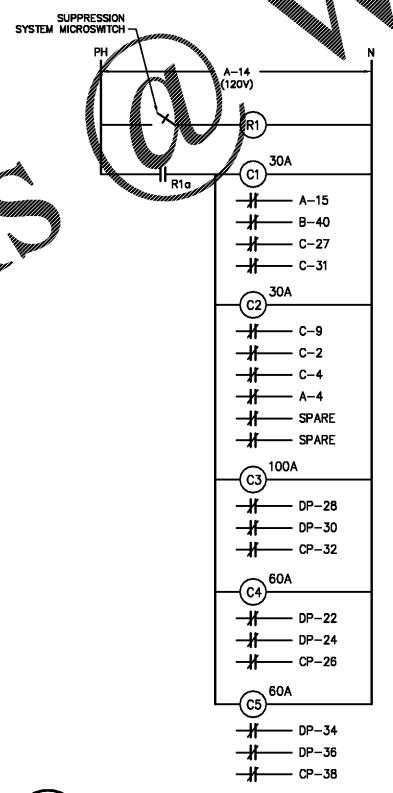
CONDUCTORS AND RACEWAY SPECIFIED IN THE ABOVE SCHEDULE ARE FOR FINAL CONNECTION TO UNIT AND SHALL BE EXTENDED FROM THE DISCONNECT SHOWN ON THE FLOOR PLANS TO THE EQUIPMENT TERMINATION BOX.

CONDUIT AND BOXES REQUIRED FOR EQUIPMENT CONNECTIONS SHALL BE INSTALLED IN SUCH A WAY AS TO NOT COVER UP EQUIPMENT NAMEPLATES, SERVICE AREAS, AIR FLOW AREAS, ETC.

◇ FUSE PER MANUFACTURER'S RECOMMENDATION.



**2 KITCHEN HOOD EQUIPMENT CONTROL**  
SCALE: NOT TO SCALE



**3 HOOD CONTROL SCHEMATIC**  
SCALE: NO SCALE

**NOTE:**  
 60A (CK) = INDICATES ELECTRICALLY HELD CONTACTOR. NUMERAL INDICATES AMPERE RATING OF CONTACTS.

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08-14-2020  
**FOR CONSTRUCTION**

ISSUANCE  
 PERMIT SUBMITTAL 08/14/2020

**REVISIONS**  
 NO. DATE DESCRIPTION

FILE NUMBER 86560010  
 PROJECT MANAGER RM  
 PROFESSIONAL MPA  
 DRAWN BY TLW  
 CHECKED BY RM

ELECTRICAL  
 RISER DIAGRAMS  
 AND SCHEDULES  
**E10**