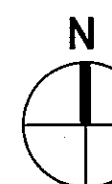
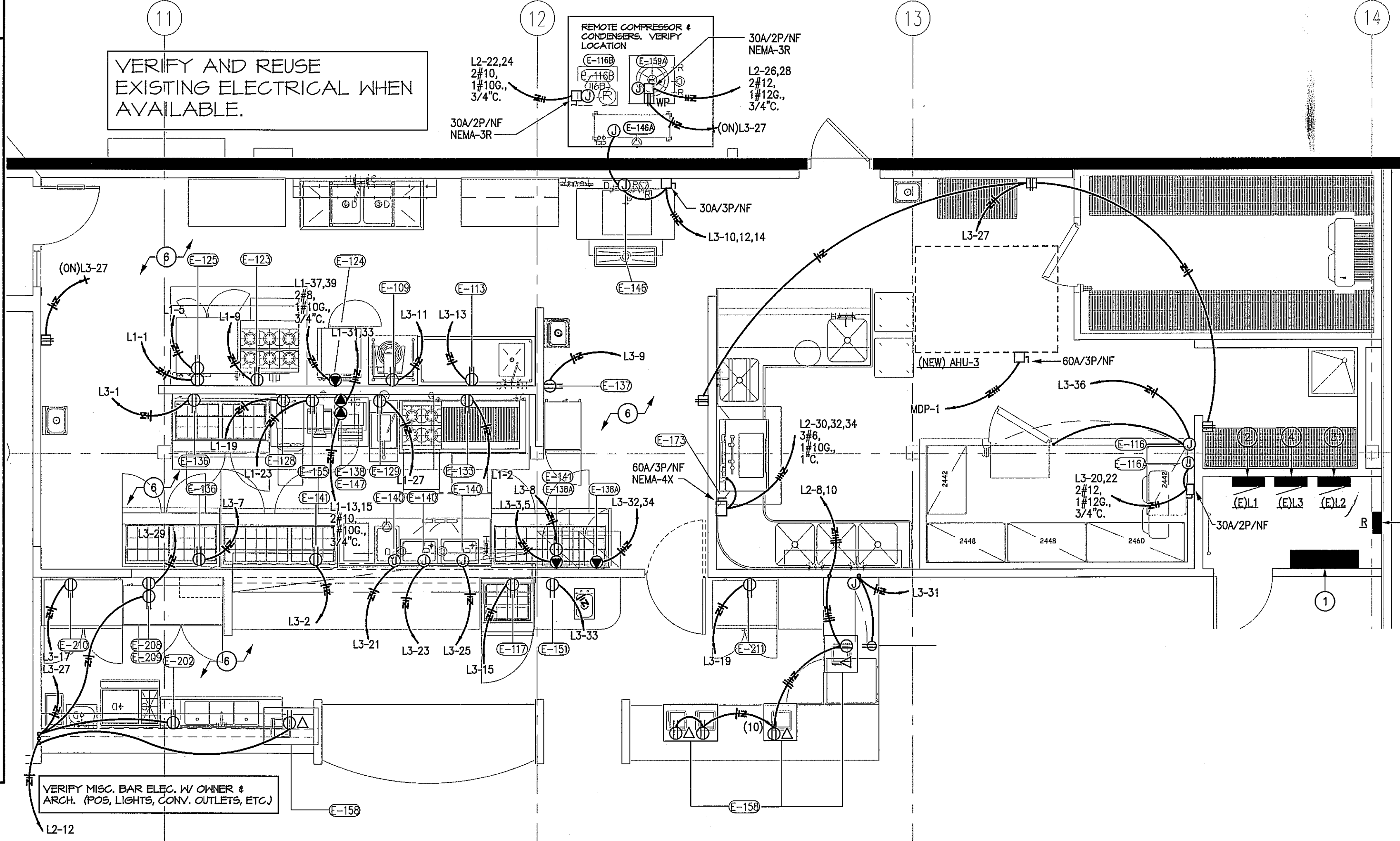


ELECTRICAL NOTES

ELECTRICAL CONTRACTOR:

- A: ALL WORK TO BE IN COMPLIANCE WITH PREVAILING CODES.
- B: ELECTRICAL BOXES AND CONDUIT TO BE IN WALLS, SURFACE MOUNTED WORK IS NOT ACCEPTABLE.
- C: E.C. TO PROVIDE AND INSTALL CORD AND PLUG ON ITEMS NOTED.
- D: E.C. TO INCLUDE FINAL HOOKUP OF EQUIPMENT FOR INSTALLATION
- E: ALL ELECTRICAL CONNECTION HEIGHTS ARE TO CENTER LINE OF JUNCTION BOX OR OUTLET, UNLESS NOTED OTHERWISE.
- F: VERIFY WITH OWNER OR VENDOR FOR ANY ADDITIONAL ELECTRICAL CONNECTIONS REQUIRED.
- G: ALL ELECTRICAL CONDUIT/FLEX MUST BE FASTENED A MINIMUM OF 6" A.F.F. TO ALLOW FOR FLOOR CLEANING.
- H: MAXIMUM HEIGHT TO TOP OF J-BOX IS TO BE 5 1/2" A.F.F. TYPICAL FOR ALL STUB-UPS AT 4" A.F.F.
- I: ALL 120V DUPLEX RECEPTACLES TO BE A MINIMUM OF 20.0 AMP CIRCUIT.
- J: ALL 120V DUPLEX RECEPTACLES TO BE GFI (VERIFY WITH LOCAL ELEC. CODE)
- K: E.C. TO PROVIDE ALL NECESSARY ELECTRICAL DISCONNECT SWITCHES FOR EQUIPMENT; AHEAD OF EQUIPMENT CONTROL OR SWITCH.
- L: E.C. TO PROVIDE EMPTY OCTAGON J-BOX AT 4'-6" AFF FOR MANUAL PULL STATION WITH EMPTY CONDUIT RUNNING TO ABOVE FINISHED CEILING. (CONDUIT IS FOR MANUAL PULL CABLE. VERIFY LOCATION W/ ARCHITECT. CONCEAL BOX AND CONDUIT IN WALL.)
- M: E.C. TO INTERWIRE DISHWASHER WITH CONDENSATE HOOD FAN AND/OR BOOSTER HEATER SO WHEN DISHWASHER IS IN OPERATION, CONDENSATE FAN WILL BE RUNNING.
- N: E.C. TO INTERWIRE DISPOSER, DISPOSER CONTROLS AND SOLENOID VALVE PER MANUFACTURERS SPEC'S.
- O: E.C. TO INTERWIRE WALK-IN COOLERS/FREEZER LIGHTS AND SWITCHES. IN FREEZER UNIT INTERWIRE WITH OUTLET MOUNTED 6" BELOW CEILING FOR EVAPORATOR DRAIN LINE HEAT TAPE, UNLESS OTHERWISE SPECIFIED.
- P: E.C. TO INTERWIRE W/ WALL SWITCHES AT 4'-6" AFF. FOR HOOD LIGHTS AND FAN. SWITCHES BY E.C.. VERIFY SWITCH LOCATION WITH ARCHITECT.
- Q: E.C. TO PROVIDE EMPTY J-BOX AND CONDUIT FOR DATA LINES.
- R: E.C. TO INTERWIRE FIRE PROTECTION SYSTEM WITH BUILDING ALARM SYSTEM.
- S: E.C. TO INTERWIRE MICROSWITCH ON FIRE PROTECTION SYSTEM TO POWER SHUT-OFF DEVICE, SO THE POWER TO ALL EQUIPMENT AND OUTLETS BELOW HOODS WILL BE SHUT-OFF UPON ACTIVATION OF THE FIRE PROT. SYSTEM.

VERIFY AND REUSE EXISTING ELECTRICAL WHEN AVAILABLE.



1 ELECTRICAL ENLARGED KITCHEN PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL SCHEDULE									
EQUIPMENT			ELECTRICAL			NOTES			
FSEC - FOOD SERVICE EQUIPMENT CONTRACTOR			FLA - FULL LOAD AMPS			E.C. - ELECTRICAL CONTRACTOR			
E.C. - ELECTRICAL CONTRACTOR			CRT - CIRCUIT			G.C. - GENERAL CONTRACTOR			
G.C. - GENERAL CONTRACTOR			SW - SWITCH			OWN. - OWNER			
OWN. - OWNER			D.C. - DROP CORD			AFF - ABOVE FINISHED FLOOR			
			JB - JUNCTION BOX			V.R.W.S. - VERIFY REQUIREMENTS WITH SUPPLIER			
			SR - SINGLE RECEPTACLE						
			DR - DUPLEX RECEPTACLE						
ITEM #	DESCRIPTION	QUANTITY	F.S.E.C.	OTHER	VOLT/PH	AMPERAGE	FLA OR CRT	HEIGHT A.F.F.	
109	FOOD MIXER	1	X		120V	DR10.0 FLA	36"		DUPLEX CONVENIENCE OUTLET
113	WORKTABLE W/ SINK	1	X		120V	DR20.0 CRT	48"		EC TO WIRE JB FOR LIGHTS, HEAT TAPE AND MISC.
116	WALK-IN FREEZER	1	X		120V	JB20.0 CRT	110"		
116A	FREEZER REFRIG.-COIL	1	X		208V/1 PH	JB13.0 FLA	110"		
116B	FREEZER REFRIG.-COMP.	1	X		208V/1 PH	JB28.7 FLA	NOTE		VERIFY COMPRESSOR LOCATION
117	REFRIG. SANDWICH TOP	1	X		120V	DR5.5 FLA	14"		NEMA 5-15P
123	RANGE W/ CONVEG. OVEN	1	X		120V	DR5.0 FLA	24"		
124	STEAMER	1	X		208V/1 PH	SR39.0 FLA	24"		NEMA 6-50P
125	DBL. CONVECTION OVEN	1	X		2120V	DR9.0 FLA	24"/48"		1 ELEC. CONNECTION PER OVEN.
128	WARMING DRAWER	1	X		120V	DR8.5 FLA	24"		NEMA 5-15P
129	FRYER	1	X		120V	DR12.0 FLA	24"		NEMA 5-15P
133	REFRIG. GRIDDLE STAND	1	X		120V	DR7.4 FLA	14"		NEMA 5-15P
136	REFRIG. SANDWICH TOP	2	X		120V	DR9.0 FLA	14"		NEMA 5-15P
137	HEATED CABINET	1	X		120V	DR8.0 FLA	24"		NEMA 5-15P
138	MICROWAVE OVEN	1	X		208V/1 PH	SR16.4 FLA	24"		NEMA 6-20P
138A	MICROWAVE OVEN	2	X		2120V/1 PH	SR16.4 FLA	66"		NEMA 6-20P. VERIFY LOCATIONS W/ OWNER.
140	DROP-IN HOT WELL	3	X		120V	JB12.5 FLA EA.	24"		EC TO WIRE JB TO REMOTE CONTROL IN APRON
141	REFRIG. SANDWICH TOP	2	X		120V	DR9.0 FLA	14"		NEMA 5-15P
146	ICE MAKER & BIN	1	X		208V/3 PH	JB11.0 FLA	60"		POWER FOR ICE MAKER. SEE CONDENSER NOTE.
146A	REMOTE CONDENSER	1	X		120V	JB3.0 FLA	NOTE		VOLTAGE SUPPLY IS SUPPLIED FROM ICE MAKER.
147	TOASTER	1	X		208V/1 PH	SR23.5 FLA	48"		NEMA 6-30P
153	ICE TEA BREWER	3	X		NOTE				VERIFY QTY, REQUIREMENTS AND LOCATIONS W/ SUPPLIER.
155	SANDWICH GRILL	1	X		120V	DR13.5 FLA	48"		NEMA 5-15P
158	POS UNITS	LOT	X		120V	DR15.0 CRT	60"		VERIFY REGMITS, QTY. AND LOCATION W/ SUPPLIER. NOTE 'Q'
159	ICE MAKER	1	X		120V	JB15.0 CRT	60"		POWER FOR ICE MAKER. SEE CONDENSER NOTE.
159A	REMOTE CONDENSER	1	X		208V/1 PH	JB1.2 FLA	NOTE		VERIFY CONDENSER LOCATION
160	WATER SOFTENER	1	X		120V	DR	24"		VERIFY REQUIREMENTS.
165	COFFEE BREWER/DISP.	1	X		NOTE		48"		VRWS
166	COFFEE GRINDER	1	X		120V	DRNOTE	48"		VRWS
167	COFFEE DISP/HEAT STAND	1	X		120V	DRNOTE	48"		VRWS
170	SODA DISPENSER	1	X		120V	DR5.0 FLA	48"		VRWS
172	U.C. REFRIGERATOR	1	X		208V	JB3.9 FLA	14"		JB TO NEMA 5-15P IN CABINET
173	DISHWASHER	1	X		120V	DR14.7 FLA	48"		
202	FRONT BAR	1	X		120V	DR20.0 CRT	14"		DUPLEX CONVENIENCE OUTLET. VERIFY W/ ARCHITECT.
208	REFRIG. BACKBAR CAB.	1	X		120V	DR4.0 FLA	14"		NEMA 5-15P
209	BACKBAR COUNTER	1	X		120V	DR20.0 CRT	54"		DUPLEX CONVENIENCE OUTLET. VERIFY W/ ARCHITECT.
210	U.C. REFRIGERATOR	1	X		120V	DR5.0 FLA	24"		
211	REFRIGERATOR	1	X		120V	DR9.8 FLA	36"		NEMA 5-15P. EXISTING RELOCATED.

ELECTRICAL LEGEND

- DR - DUPLEX RECEPT, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
- SR - SPECIAL PURPOSE OUTLET, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
- SR - SPECIAL PURPOSE OUTLET, 208/240-VOLT AS INDICATED, GROUND TYPE, HORIZONTAL MOUNT
- FLOOR-SINGLE RECEPTACLE OUTLET
- FLOOR-DUPLEX RECEPTACLE OUTLET
- J-BOX - JUNCTION BOX
- E - ELECTRICAL CONDUIT, STUB AS INDICATED
- D - DROP CORD
- \$ - WALL SWITCH
- △ - COMPUTER DATA CONNECTION
- FIELD WIRING, PER CODE

ELECTRICAL GENERAL NOTES:

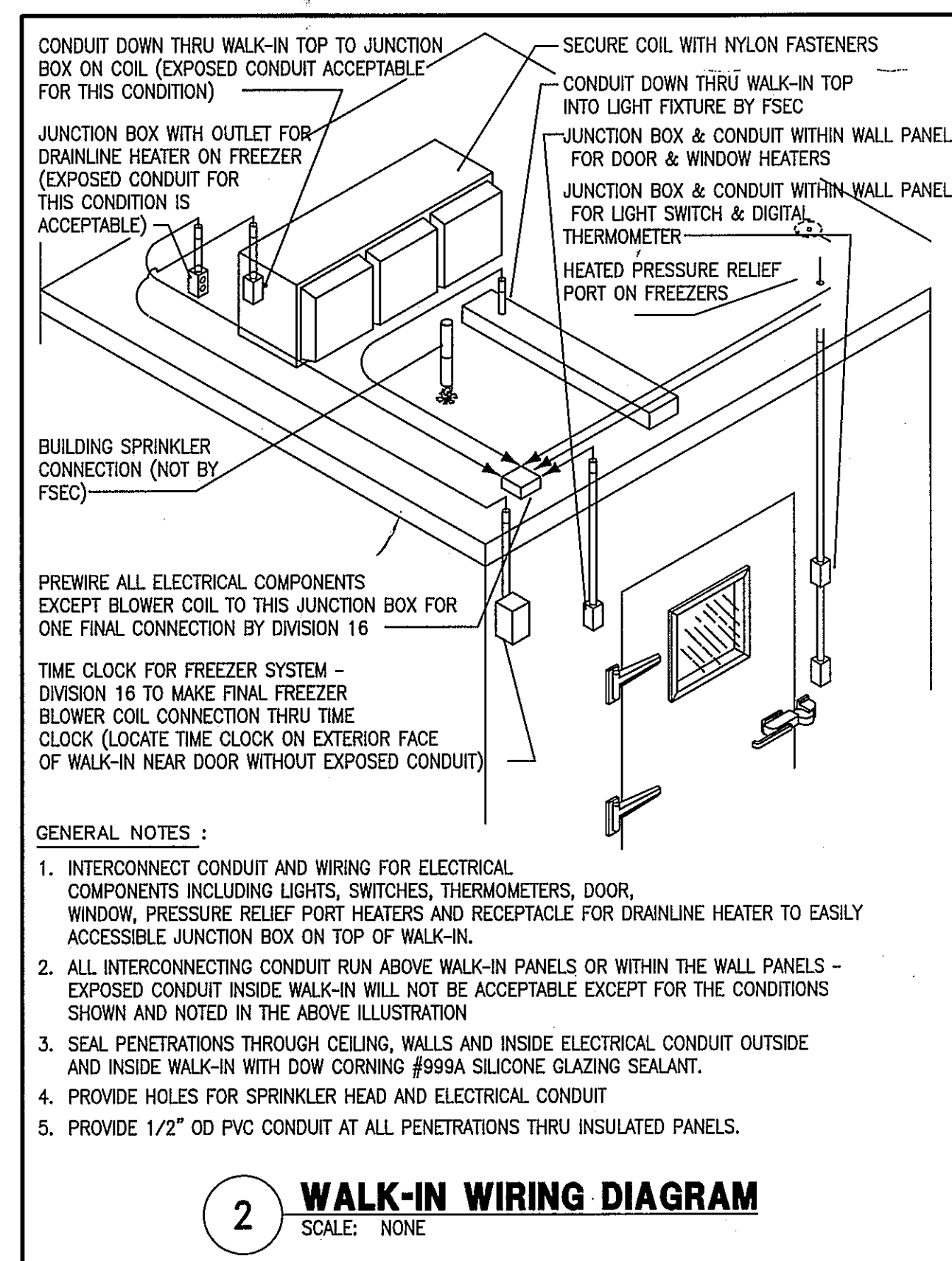
(FOR SHEET E2.2)

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS.
- EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM.
- NO MORE THAN THREE SINGLE PHASE CIRCUITS AND NO MORE THAN SIX CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN A SINGLE RACEWAY. WHEN FOUR, FIVE, OR SIX CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, THEIR CURRENT CARRYING CAPACITIES SHALL BE DERATED AS REQUIRED BY THE NEC FOR NON-DIVERSIFIED LOADS. THE INSTALLED WIRE SIZE SHALL HAVE A NOMINAL AMPACITY RATING OF 125% OF THAT REQUIRED OR SPECIFIED WHEN FOUR OR MORE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY. NEUTRAL CONDUCTORS SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR IN ALL NON-LINEAR LOADED CIRCUITS AS REQUIRED BY THE NEC.
- VERIFY MOUNTING HEIGHTS OF RECEPTACLES WITH CASEWORK ELEVATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS FOR LOCATION AND COORDINATION OF ELECTRICAL OUTLETS. AT KNEESPACE LOCATIONS, LOCATE ELECTRICAL OUTLETS WITHIN KNEESPACE, UNLESS NOTED OTHERWISE. AT COUNTERS WITH OUT KNEESPACE, LOCATE OUTLETS HORIZONTALLY 6" ABOVE BACK SPLASH, UNLESS NOTED OTHERWISE.
- ALL RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT CONDUITS SHALL CONTAIN A GROUND WIRE, USING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
- ELECTRICIAN OF RECORD, & BONDED PER DIVISION O-"CONTRACT" SPECIFICATIONS, AND BE FAMILIAR & EXPERIENCED WITH SUCH WORK INDICATED HEREIN, & QUALIFIED BY MOST RECENT OSHA CERTIFICATION TO WORK ON ENERGIZED EQUIPMENT. REFER TO & COMPLY WITH OSHA 29CFR.1910 & 1926 ELECTRICAL SAFETY PORTIONS. CONSTRUCTION METHOD AND MEANS AND THEIR REQUIREMENTS. CONTRACTOR SHALL PROVIDE WORK WITHIN STANDARD OF CARE FOR PROFESSION.
- MOUNT ALL RECEPTACLES AT +18" A.F.F. UNLESS OTHERWISE NOTED.
- REFER TO SHEET E4.1 FOR SYMBOL LEGEND.
- ALL ELECTRICAL WORK INCLUDED IN THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE 2011 NATIONAL ELECTRICAL CODE (N.E.C.).
- TEMPORARY POWER & HEAT ARE PROVIDED BY OTHERS.

ELECTRICAL KEYED NOTES:

(FOR SHEET E2.2)

- EXISTING 120/208V, 3ø, 4W MAIN DISTRIBUTION PANEL MDP TO REMAIN. REFER TO SHEET E3.1 FOR PANEL SCHEDULE INFORMATION.
- EXISTING 120/208V, 3ø, 4W MAIN DISTRIBUTION PANEL L1 TO REMAIN. REFER TO SHEET E3.1 FOR PANEL SCHEDULE INFORMATION.
- EXISTING 120/208V, 3ø, 4W MAIN DISTRIBUTION PANEL L2 TO REMAIN. REFER TO SHEET E3.1 FOR PANEL SCHEDULE INFORMATION.
- EXISTING 120/208V, 3ø, 4W MAIN DISTRIBUTION PANEL L3 TO REMAIN. REFER TO SHEET E3.1 FOR PANEL SCHEDULE INFORMATION.
- PROVIDE LEVITON #R24BD-124 Z-MAX RELAY CABINET. REFER TO DETAIL #2 ON SHEET E1.1 FOR MORE INFORMATION.
- ALL 15A/1P AND 20A/1P RECEPTACLES WITHIN KITCHEN AND SERVING AREAS SHALL BE GFI PROTECTED PER NEC.



2 WALK-IN WIRING DIAGRAM

SCALE: NONE

GENERAL NOTES:

- INTERCONNECT CONDUIT AND WIRING FOR ELECTRICAL COMPONENTS INCLUDING LIGHTS, SWITCHES, THERMOMETERS, DOOR, WINDOW, PRESSURE RELIEF PORT HEATERS AND RECEPTACLE FOR DRAINLINE HEATER TO EASILY ACCESSIBLE JUNCTION BOX ON TOP OF WALK-IN.
- ALL INTERCONNECTING CONDUIT RUN ABOVE WALK-IN PANELS OR WITHIN THE WALL PANELS - EXPOSED CONDUIT INSIDE WALK-IN WILL NOT BE ACCEPTABLE EXCEPT FOR THE CONDITIONS SHOWN AND NOTED IN THE ABOVE ILLUSTRATION
- SEAL PENETRATIONS THROUGH CEILING, WALLS AND INSIDE ELECTRICAL CONDUIT OUTSIDE AND INSIDE WALK-IN WITH DOW CORNING #999A SILICONE GLAZING SEALANT.
- PROVIDE HOLES FOR SPRINKLER HEAD AND ELECTRICAL CONDUIT
- PROVIDE 1/2" OD PVC CONDUIT AT ALL PENETRATIONS THRU INSULATED PANELS.



ISSUE
10-24-11 LANDLORD REVIEW
11-03-11 ISSUED FOR PERMIT AND PRICING

HARRELL
ARCHITECTS, LP

9575 Katy Frwy., #200
Houston, Texas 77024
tel: 713.722.7071
fax: 713.722.7072

CONSULTANTS
Holste & Associates, Inc.
Consulting Engineers - Texas Reg. F-5413
6671 Southwest Freeway, Suite 800
Houston, Texas 77058 (713) 959-1391
www.holsteinc.com
Contact: Kris Odum (832) 663-0368

PROJECT NAME

Cafe Express

Cafe Express Restaurant

PROJECT ADDRESS
3800 SW. Freeway, Suite 124
Houston, Texas 77027

PROJECT NUMBER

11039

SHEET NAME

ELECTRICAL
ENLARGED KITCHEN

SHEET NUMBER

E2.2