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PROJECT

**WING SNOB**  
 34115 E. SAGINAW SUITE D  
 LANSING, MI 48912

BUILDER/CLIENT  
**WING SNOB**

PRELIMINARY ○  
 CONSTRUCTION ●  
 PERMIT ●  
 SHEET TITLE:

**ELECTRICAL POWER PLAN**

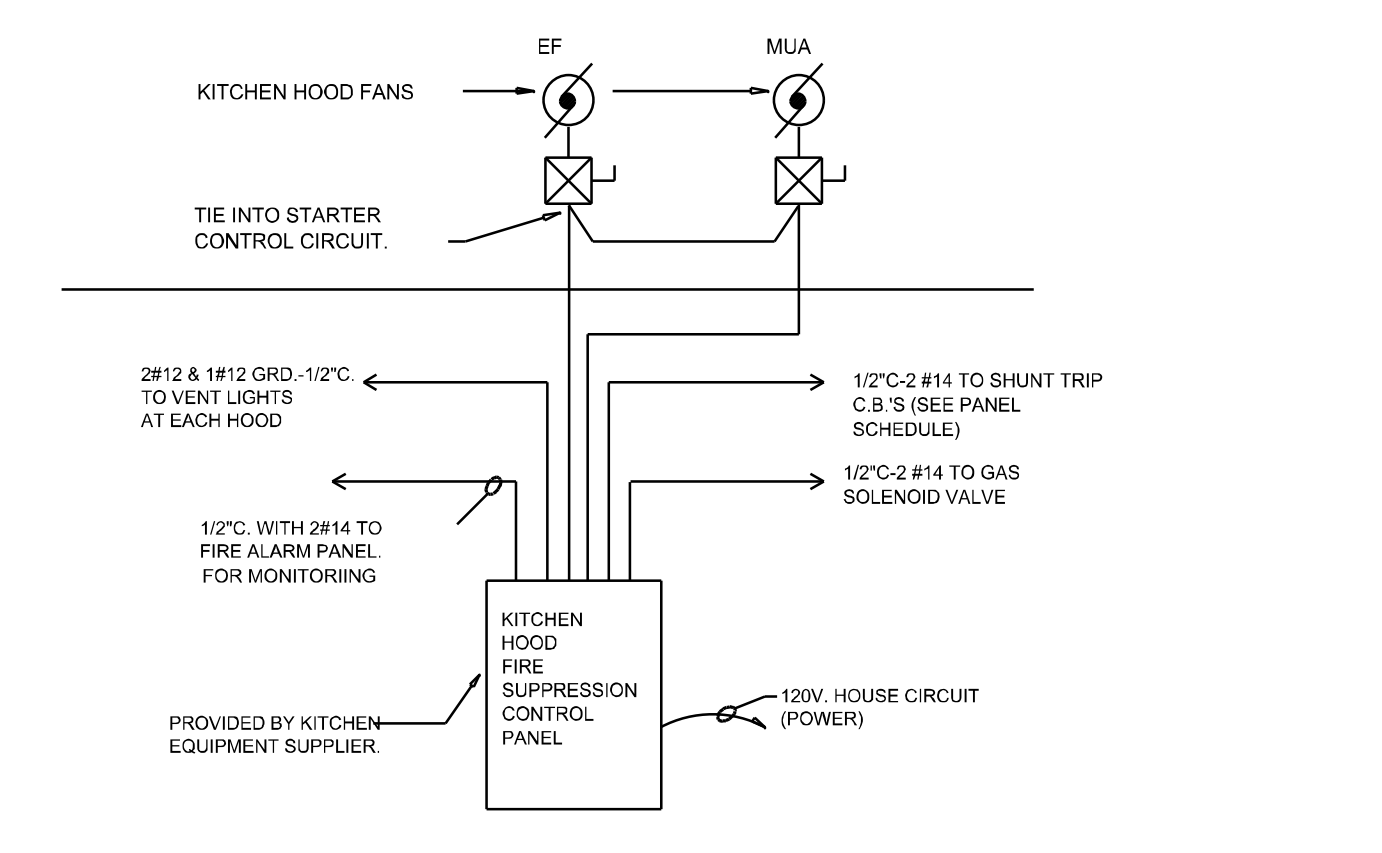
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DRAWN BY: **J.M.P.**

CHECKED BY: **J.M.P.**

JOB NUMBER: **22 - 110**

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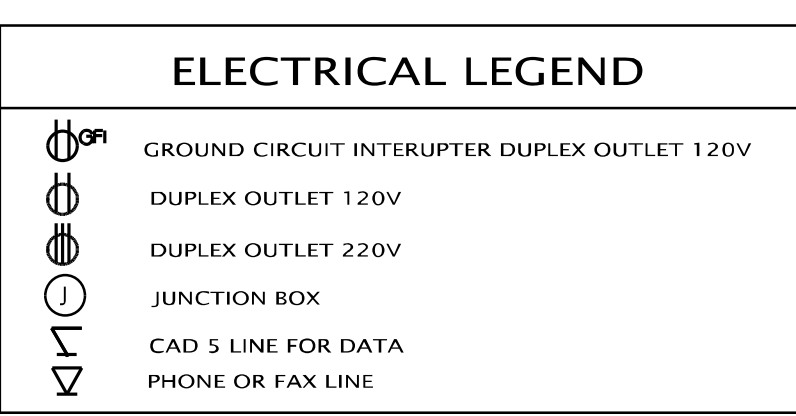
**TYPICAL KITCHEN HOOD PANEL ONE LINE DIAGRAM**  
NO SCALE

**NOTE TO ELECTRICIAN:**  
-VERIFY PLUG HT. / TYPE & LOCATIONS WITH MOST CURRENT SPEC. PER OWNER

**NOTE:**

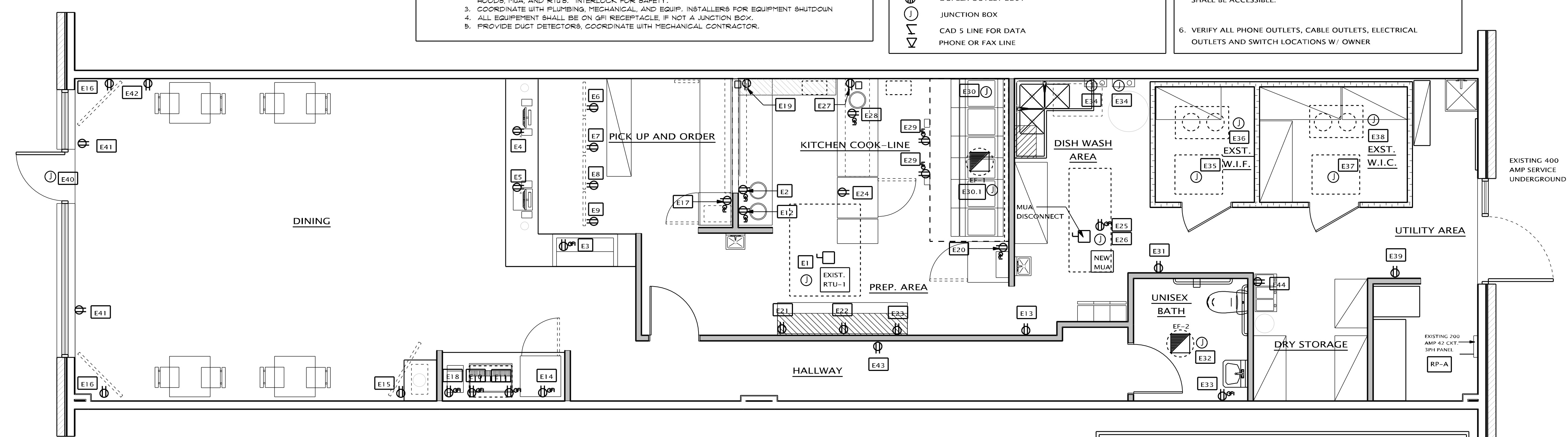
- TRADES TO PROVIDE THE NECESSARY CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS OR OWNER. IF MAKEUP AIR IS REQUIRED, THE ELECTRICAL CONTRACTOR IS TO PROVIDE THE NECESSARY ELECTRICAL TRADES TO VERIFY EXACT LOCATION OF CONNECTIONS ON ROOF OF BUILDING.
- TRADES TO PROVIDE SNAP-BUTTONS FOR ELECTRICAL OUTLETS UNDER THE CANOPY
- ELECTRICAL TRADES ARE RESPONSIBLE FOR VERIFYING & MEETING ALL CITY, STATE & FEDERAL CODES

- PROVIDE DEDICATED OCK FOR EACH PIECE OF EQUIPMENT
- PROVIDE AUTOMATIC SHUT DOWN AND SHUNT STRIPS FOR ALL HOODS, MUA, AND RTU'S. INTERLOCK FOR SAFETY.
- COORDINATE WITH PLUMBING, MECHANICAL, AND EQUIP. INSTALLERS FOR EQUIPMENT SHUTDOWN
- ALL EQUIPMENT SHALL BE ON GFI RECEPTACLE IF NOT A JUNCTION BOX.
- PROVIDE DUCT DETECTORS. COORDINATE WITH MECHANICAL CONTRACTOR.



**NOTE**

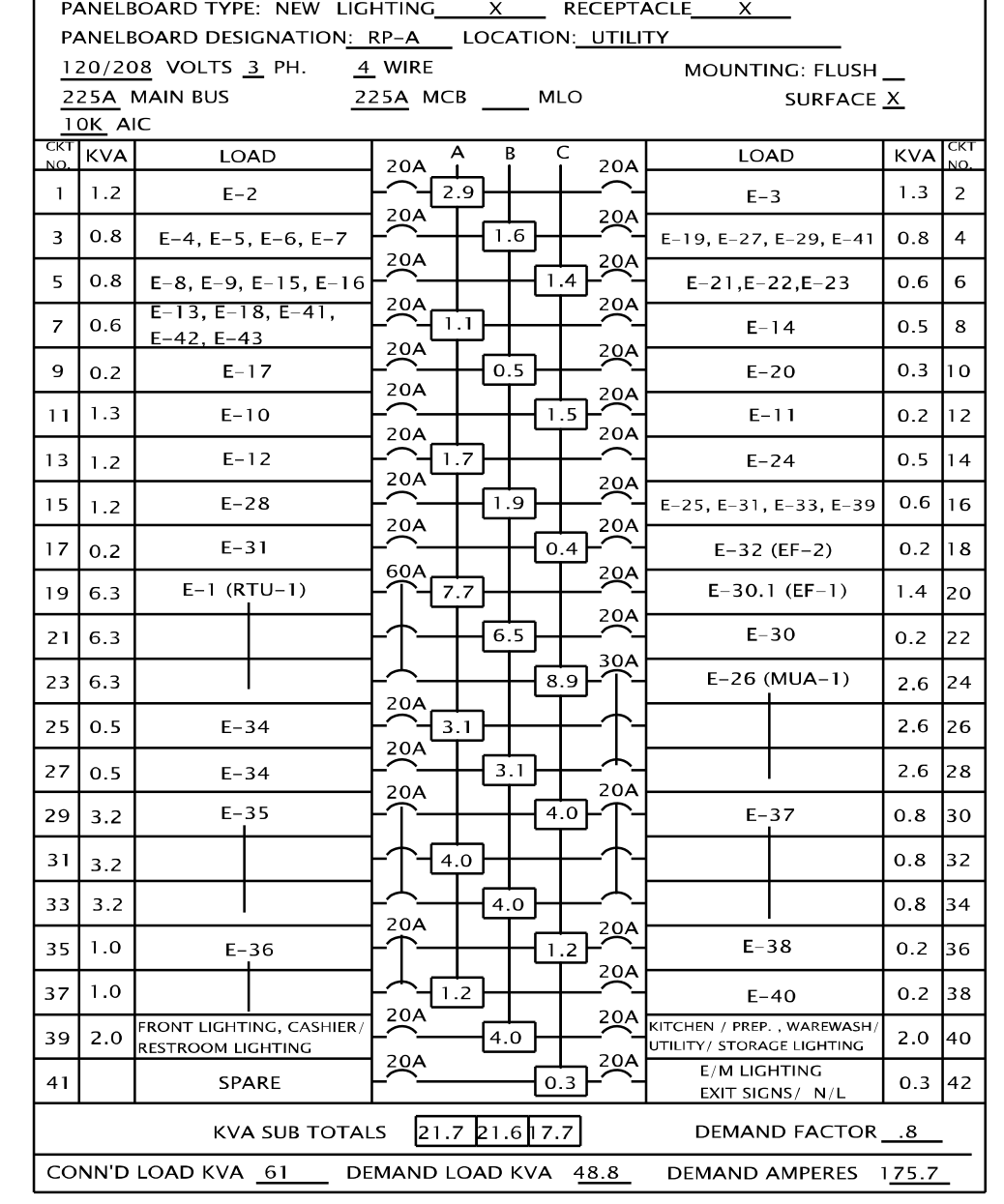
- ALL EQUIPMENT UNDER HOODS SHALL HAVE SHUNT STRIPS AND AUTOMATIC SHUT OFF EQUIPMENT, HOODS, AND MUA. ALL TO BE INTERCONNECTED
- PROVIDE POWER TO ROOF TOP EXHAUST FANS AND MAU UNIT. UNITS HAVE BUILT IN DISCONNECTS.
- STORAGE BATTERIES SHALL BE STORED ON-SITE.
- EMERGENCY LIGHTING SHALL HAVE MIN. OF 1 FOOT CANDLE FOR EGRESS AT FLOOR LEVEL (11 LUX)
- ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER CONTROLS SHALL BE ACCESSIBLE.
- VERIFY ALL PHONE OUTLETS, CABLE OUTLETS, ELECTRICAL OUTLETS AND SWITCH LOCATIONS W/ OWNER



**ELECTRICAL GENERAL NOTES:**

- ALL ELECTRICAL WORK AND EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF N.E.C., LOCAL & STATE CODES, ORDINANCES & REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND BOCA.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE BEFORE HE SUBMITS HIS BID, TO FAMILIARIZE HIMSELF WITH THE ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF OTHER TRADES AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS. IF ANY INTERFERENCES OR VIOLATIONS APPEAR AND DEPART FROM THE DESIGN INTENT OF THE CONTRACT DOCUMENTS IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT-ENGINEER BEFORE ENTERING INTO CONTRACT WITH THE OWNER.
- FOR EXACT LOCATION OF MECHANICAL EQUIPMENT SUCH AS ELECTRIC HEATERS, VENTILATION & AIR CONDITIONING, ETC., SEE MECHANICAL DRAWINGS.
- FINAL LOCATION OF DEVICES & EQUIPMENT TO BE VERIFIED WITH CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF THE OTHER BUILDING TRADES.
- ANY CUTTING AND/OR PATCHING, THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM, SHALL BE DONE AND/OR REPAIRED BY THE ELECTRICAL CONTRACTOR. NO CUTTING, BURNING OR WELDING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER BEING PREVIOUSLY OBTAINED.
- THAT PRIORITIES SHALL BE ESTABLISHED TO KEEP EXISTING FACILITIES IN THE CONTRACTOR MUST ENSURE THRU COORDINATION WITH CONSTRUCTION MANAGER OPERATION WITH MINIMAL INTERFERENCES AND INTERRUPTIONS.
- PERMANENTLY LABEL PANELBOARDS, DISTRIBUTION PANELS, CIRCUIT BREAKERS, SAFETY SWITCHES, ETC., AS SHOWN ON THE DRAWINGS OR PER AREAS WHICH THEY SERVE. SEE SPECIFICATIONS FOR REQUIREMENTS.
- ALL CABINETS, MOTOR FRAMES, STARTERS, CONDUIT SYSTEMS, PANELS, ETC., SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ALL LOCAL CODES.
- WHERE CONDUIT IS RUN EXPOSED TO WEATHER, PVC CONDUIT SHALL BE UTILIZED EXCEPT AS OTHERWISE NOTED.
- HOMERUNS SHOWN SEPARATE FOR CLARITY ONLY, CIRCUITS CAN BE COMBINED FOR MOST COST EFFECTIVE INSTALLATION, BUT MUST COMPLY WITH N.E.C.
- ALL LIGHTING CIRCUIT HOMERUNS FROM PANEL TO FIRST FIXTURE ON CIRCUIT OVER 100', SHALL BE #10 WIRE SIZE MINIMUM UNLESS INDICATED OTHERWISE.
- IF MORE THAN THREE (3) CONDUCTORS ARE INSTALLED IN CONDUIT, WIRE SHALL BE DERATED IN ACCORDANCE WITH NOTES TO N.E.C. TABLES 310-16 AND 310-18.
- THE CONTRACTOR SHALL PROVIDE ROUGH-INS FOR ALL SYSTEMS SUCH AS FIRE ALARM, TELEPHONE, SECURITY, ETC. AS SHOWN ON THE DRAWINGS. CONDUITS FOR SUCH SYSTEMS SHALL BE INSTALLED WITH FULL WIRE, CAPS & IDENTIFICATION TAGS.
- ALL PENETRATIONS IN FLOORS, CEILINGS, AND WALLS SHALL BE SEALED AND FIRE STOPPED TO A FIRE RATING EQUAL TO THE CONSTRUCTION BEING PENETRATED.
- ALL FINAL CONNECTIONS BETWEEN MOTOR STARTERS & EQUIPMENT SUCH AS UNIT HEATERS, MOTORIZED DAMPERS, TWO POST LIFTS, HOISTS, ETC. SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
- ALL DISCONNECTS, CONTROL PANEL ENCLOSURES, ETC. LOCATED ON ROOF AND/OR EXPOSED TO THE OUTDOOR ELEMENTS SHALL BE NEMA 3R, WEATHERPROOF.
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATIONS OF ALL KITCHEN EQUIPMENT POINTS OF CONNECTIONS, MOUNTING HEIGHTS AND EXACT DIMENSIONS OF ALL RECEPTACLES PRIOR TO ROUGH IN WITH FOOD SERVICE SUPPLIER AND ACTUAL EQUIPMENT SHOP DRAWINGS.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS.
- PROVIDE ALL MISCELLANEOUS STEEL AS REQUIRED FOR THE PROPER INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS, INCLUDING BUT NOT LIMITED TO SUPPORTS, ANCHORS AND GUIDES. SUBMIT PROPOSED METHODS FOR SUPPORTING ELECTRICAL SYSTEMS AND EQUIPMENT TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- PROVIDE (10) SETS OF ALL ELECTRICAL EQUIPMENT SHOP DRAWING SUBMITTALS FOR APPROVAL BY THE ARCHITECT/ENGINEER.
- REFER TO MECHANICAL/ELECTRICAL SCHEDULE SHEETS (ME SERIES) FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT, PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE ME SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER CAPACITY.

\* SHUNT TRIP (TYP. ALL PANELS)



**ELECTRICAL NOTES:**

- ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS WITH OWNER'S FINAL KITCHEN EQUIPMENT SELECTION PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES WITH ARCHITECT.
- RUN A 3/4" C WITH PULL WIRE FROM EACH TEL/DATA OUTLET LOCATION BACK TO TEL. BB IN ELECTRICAL ROOM.
- PROVIDE NEW BREAKERS AND NEW SHUNT TRIP BREAKERS AT EXISTING PANELS. SIZE AS INDICATED TO MATCH EXISTING PANEL MANUFACTURER.
- CIRCUIT NUMBERS SHOWN FROM EXISTING PANELS, MIGHT NOT BE THE ACTUAL SPARE CIRCUITS AVAILABLE. ELECTRICAL CONTRACTOR TO VERIFY AND MAKE NECESSARY MODIFICATIONS REQUIRED AND UPDATE PANEL DIRECTORIES.
- ELECTRICAL CONTRACTOR TO PROVIDE POWER FEEDERS AS REQUIRED IN ALL EXISTING COOLERS, FREEZERS, EVAPORATORS, EXHAUST AND SUPPLY FANS. PROVIDE CIRCUIT/BREAK TRIP BREAKERS AS REQUIRED AND UPDATE PANEL DIRECTORIES.
- IT IS RECOMMENDED TO VISIT THE SITE AND INVESTIGATE THE EXTENT OF THAT WORK. SINCE EXISTING DOCUMENTS ARE NOT AVAILABLE.
- COORDINATE ALL WORK WITH MECHANICAL AND REFRIGERATION CONTRACTORS.
- ALL RECEPTACLES IN KITCHENBAR AND SERVICE AREAS SHALL BE GFI PROTECTED PER NEC 210.8(B)(2), INCLUDING EXISTING THAT THEY ARE NOT.
- DUCT DETECTORS FOR EXISTING/NEW RTU'S SHALL BE CONNECTED TO THE EXISTING FACP FOR FAN SHUTDOWN. COORDINATE ALL WORK WITH OWNER'S FIRE ALARM CONTRACTOR.
- NEW FIRE ALARM WORK AND SECURITY SHALL BE BY OWNER'S CONTRACTOR. COORDINATE WORK WITH CITY AND PROVIDE RACEWAYS AS REQUIRED.

**ELECTRICAL SCHEDULE**

MARK	DESCRIPTION	VOLT	PHASE	AMP
E1	JUNCTION BOX FOR RTU-1	208	3 ph	43.5
E2	SAUCE WARMER RECEPT. DUPLEX 42" A.F.F.	120	1 ph	10.0
E3	GFI DUPLEX FOR OPEN AIR BEVERAGE COOLER NEMA 5-15P	120	1 ph	3.9
E4	P.O.S. QUAD RECEPT. UNDER COUNTER.	120	1 ph	1.7
E5	P.O.S. QUAD RECEPT. UNDER COUNTER.	120	1 ph	1.7
E6	TV/ MENU RECEPT. DUPLEX # 96" A.F.F.	120	1 ph	1.7
E7	TV/ MENU RECEPT. DUPLEX # 96" A.F.F.	120	1 ph	1.7
E8	TV/ MENU RECEPT. DUPLEX # 96" A.F.F.	120	1 ph	1.7
E9	TV/ MENU RECEPT. DUPLEX # 96" A.F.F.	120	1 ph	1.7
E10	GFI DUPLEX FOR ICE MACHINE 42" A.F.F.	115	1 ph	11.3
E11	GFI DUPLEX FOR POP FOUNTAIN	115	1 ph	2.0
E12	SAUCE WARMER RECEPT. DUPLEX 42" A.F.F.	120	1 ph	10.0
E13	GENERAL RECEPT. DUPLEX 30" A.F.F.	120	1 ph	1.7
E14	GFI DUPLEX FOR 30" CLASS DOOR REACH IN REFRIGERATOR NEMA 5-15P	115	1 ph	4.0
E15	TV. RECEPT. DUPLEX MOUNTED TO CEILING JOIST.	120	1 ph	1.7
E16	TV. RECEPT. DUPLEX MOUNTED TO CEILING JOIST.	120	1 ph	1.7
E17	GFI DUPLEX FOR 30" REACH IN REFRIGERATOR NEMA 5-15P	115	1 ph	2.0
E18	GFI RECEPT. DUPLEX 42" A.F.F. TEA MACHINE	120	1 ph	1.7
E19	TICKET PRINTER RECEPT. DUPLEX 42" A.F.F.	120	1 ph	1.7
E20	GFI DUPLEX FOR 30" S.S. DOOR REACH IN FREEZER NEMA 5-15P	115	1 ph	2.7
E21	PREP-AREA RECEPT. DUPLEX 42" A.F.F.	120	1 ph	1.7
E22	PREP-AREA RECEPT. DUPLEX 42" A.F.F.	120	1 ph	1.7
E23	PREP-AREA RECEPT. DUPLEX 42" A.F.F.	120	1 ph	1.7
E24	GFI DUPLEX FOR 30" SOLID DOOR REACH IN REFRIGERATOR NEMA 5-15P	115	1 ph	4.3
E25	GFI DUPLEX FOR MUA-1	120	1 ph	1.7
E26	JUNCTION BOX FOR MUA-1	208	3 ph	21.4
E27	TICKET PRINTER RECEPT. DUPLEX 42" A.F.F.	120	1 ph	1.7
E28	SAUCE WARMER RECEPT. DUPLEX 42" A.F.F.	120	1 ph	10.0
E29	TIMER RECEPT. DUPLEX 84" A.F.F.	120	1 ph	1.7
E30	HOOD LIGHTS	120	1 ph	1.7
E30.1	JUNCTION BOX FOR HOOD EF-1	115	1 ph	8.1
E31	GENERAL RECEPT. DUPLEX 18" A.F.F.	120	1 ph	1.7
E32	JUNCTION BOX FOR BATHROOM FAN	120	1 ph	1.7
E33	GFI DUPLEX FOR UNISEX RESTROOM 48" A.F.F.	120	1 ph	1.7
E34	JUNCTION BOX FOR TANKLESS WATER HEATER	120	1 ph	4.0
E35	JUNCTION BOX FOR W.I.F. COMPRESSOR	208	3 ph	8.9
E36	JUNCTION BOX FOR W.I.F. EVAP. FANS/LIGHTS	208	1 ph	9
E37	JUNCTION BOX FOR W.I.C. COMPRESSOR	208	3 ph	6.9
E38	JUNCTION BOX FOR W.I.C. EVAP. FANS/LIGHTS	120	1 ph	2.1
E39	GENERAL RECEPT. DUPLEX 18" A.F.F.	120	1 ph	1.7
E40	JUNCTION BOX FOR EXT. SIGNAGE ON BUILDING	120	1 ph	2.0
E41	CEILING RECEPT. FOR WINDOW SIGNAGE	120	1 ph	1.7
E42	GENERAL RECEPT. DUPLEX 18" A.F.F.	120	1 ph	1.7
E43	GENERAL RECEPT. DUPLEX 18" A.F.F.	120	1 ph	1.7
E44	GFI DUPLEX FOR BAG-IN-BOX 48" A.F.F.	115	1 ph	5.0

**ELECTRICAL SYMBOL LIST**

SYMBOL	DESCRIPTION
□	RECESSED FLUORESCENT FIXTURE
□	FIXTURE ON NIGHT LIGHT/EMERGENCY CIRCUIT
○	SURFACE INCANDESCENT, HID OR FLUORESCENT FIXTURE
○	EXIT LIGHT - CEILING MOUNTED
○	EXIT LIGHT - WALL MOUNTED
○	EXIT LIGHT - WALL MOUNTED WITH A REMOTE UP HEAD
○	EMERGENCY LIGHT - WALL, CEILING
○	COMBINATION EMERGENCY/EXIT LIGHT - WALL MOUNTED WITH A REMOTE UP HEADMOUNT 12" BELOW CEILING
○	SINGLE POLE SWITCH
○	THREE WAY SWITCH
○	FOUR WAY SWITCH
○	DIMMER SWITCH
○	DUPLEX RECEPTACLE OUTLET (G - INDICATES 800V/C/CEILING MTD)
○	QUAD RECEPTACLE OUTLET
○	SINGLE RECEPTACLE OUTLET
○	TEL/DATA (COMPUTER) OUTLET
○	MANUAL STARTER - THERMAL TYPE MOTOR PROTECTION SWITCH
○	THREE PHASE MOTOR
○	SINGLE PHASE MOTOR
○	LIGHTING /RECEPTACLE PANEL
○	DISTRIBUTION PANEL
○	JUNCTION BOX (INDICATES ABOVE CEILING)
○	LIGHTING CONTACTOR*
○	TRANSFORMER
○	DISCONNECT SWITCH - FUSED
○	DISCONNECT SWITCH - NON FUSED
○	COMBINATION STARTER/DISCONNECT SWITCH - FUSED
○	FIRE ALARM AUDIO/VISUAL HORN
○	FIRE ALARM VISUAL
○	FIRE ALARM FULL STATION
○	FIRE ALARM CONTROL PANEL
○	GROUND FAULT INTERRUPTER
○	WEATHER PROOF
○	ABOVE FINISHED FLOOR
○	NIGHT LIGHT / EMERGENCY LIGHT
○	ELECTRICAL WATER COOLER
○	ELECTRICAL CONTRACTOR
○	DETROIT EDISON COMPANY
○	EXISTING TO REMAIN
○	RELOCATED ELECTRICAL EQUIPMENT/DEVICE
○	UNLESS NOTED OTHERWISE