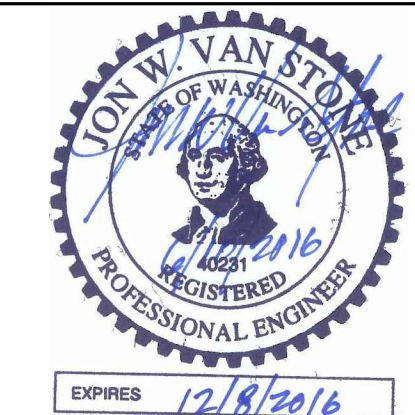


- ### GENERAL NOTES
- VERIFY EXACT LOCATIONS OF ALL LIGHT FIXTURES AND SIGNS WITH ARCHITECTURAL DRAWINGS. VERIFY LOCATIONS OF SIGN CONNECTIONS WITH SIGN CONTRACTOR.
 - PROVIDE ADDITIONAL BLOCKING WHERE NECESSARY TO INSTALL ALL LIGHTING AND POWER OUTLETS IN EXACT LOCATIONS.
 - PROVIDE FIXTURE STUDS AND ADDITIONAL SUPPORT WHERE REQUIRED DUE TO THE WEIGHT OF THE FIXTURE.
 - ALL FLEXIBLE METAL CONDUIT NOT CONCEALED IN WALLS OR ABOVE CEILING SHALL BE LIQUID TIGHT AND INSTALLED PER N.E.C., ARTICLE 351. ALL CONDUITS INSTALLED ABOVE THE CEILING, IN THE T-BAR CEILING AREAS SHALL BE INSTALLED ABOVE THE BOTTOM CORD OF THE TRUSSES. DROPS TO LIGHT FIXTURES SHALL BE DIRECTLY ABOVE THE FIXTURE.
 - ALL LIGHT FIXTURE TRIMS SHALL SIT FLUSH WITH FINISHED CEILING. CHECK FOR "LIGHT LEAKS". ALL LIGHT FIXTURE REFLECTORS SHALL BE CLEANED OF ALL DIRT.
 - TYPE "A" LIGHT FIXTURES IN FOOD PREP AND SERVING SHALL HAVE INSIDE LAMPS ON ONE CIRCUIT AND OUTSIDE LAMPS ON SECOND CIRCUIT.
 - INSTALL TWO #12 GAUGE SAFETY HANGAR WIRES ON ALL TYPE "A" & "B" AND ONE WIRE ON TYPES L & N FIXTURES.
 - OUTLET BOXES SHALL NOT BE USED AS SOLE SUPPORT FOR CEILING FANS, EXCEPT FOR LISTED FANS NOT EXCEEDING 35 LBS. IN WEIGHT CAN BE MOUNTED ON BOXES IDENTIFIED FOR SUCH USE.
 - NO ARMORED CABLE IS ALLOWED, INCLUDING LIGHT FIXTURE WHIPS.
 - ALL COVER PLATES SHALL BE STAINLESS STEEL IN ALL AREAS UNLESS OTHERWISE NOTED INCLUDING SWITCH, RECEPTACLE, BLANK AND POS GROMMETED HOLE PLATES.
 - ALL DINING ROOM CEILING RECEPTACLES SHALL BE WHITE DEVICES WITH WHITE COVER PLATES TO MATCH CEILING.
 - REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.
 - REFER TO LIGHT FIXTURE SCHEDULE, DRAWING E2.1, FOR FIXTURE DESCRIPTIONS, MANUFACTURER AND MODEL NUMBERS.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD INSTALLING ALL EMERGENCY BALLASTS IN EMERGENCY FIXTURES.

- ### KEYED NOTES
- PROVIDE WALL MOUNTED VACANCY SENSOR IN OFFICE. SENSOR SHALL BE WATT STOPPER #WI-300-W UNLESS NOTED OTHERWISE. 'MANUAL ON'.
 - MOTION SENSORS FURNISHED BY WALK-IN VENDOR, INSTALLED BY E.C.
 - LIGHT FIXTURES WITHIN COOLER/FREEZER ARE FURNISHED BY VENDOR, INSTALLED BY CONTRACTOR.
 - PROVIDE WALL MOUNTED MOTION SENSOR IN RESTROOM. SENSOR SHALL BE WATT STOPPER #WI-200-W UNLESS NOTED OTHERWISE.
 - ELECT. CONTR. TO CONNECT WINDOW MFG. FURNISHED REED SWITCH, LOCATED IN WINDOW HEAD. IT SHALL BE RUN CONCEALED IN CONDUIT TO ELECT. CONTR. FURNISHED TRANSFORMER, LOW VOLTAGE RELAY, & CEILING MOUNTED RECEPTACLE FOR FLY FAN.
 - JUNCTION BOX FOR MENU BOARD. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - RECEPTACLE MOUNTED AT CEILING HORIZONTAL TO WINDOW FOR SHOW WINDOW LIGHTING.
 - DASHED LINE INDICATES 15' DAY LIGHTING ZONE PER ENERGY CODE. ZONE IS TO BE SWITCHED SEPARATE FROM OTHER AREAS AS SHOWN.
 - CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT.
 - ROUTE CIRCUIT THROUGH LIGHTING CONTACTORS LOCATED IN IFS PANEL. COORDINATE WITH IFS PANEL SUPPLIER FOR CONNECTION REQUIREMENTS.
 - PROVIDE ADDITIONAL UNSWITCHED LEG FOR CONNECTION TO EMERGENCY BATTERY PACKS.
 - ALL PENETRATIONS INTO AND OUT OF THE WALK-IN FREEZER/COOLER ARE TO BE PROVIDED WITH CONDUIT SEAL OFFS.
 - FURNISH AND INSTALL (2) 1" CONDUITS WITH PULL STRING TO OFFICE FOR POWER AND DATA TO MENU BOARDS. COORDINATE EXACT REQUIREMENTS WITH MENU BOARD SUPPLIER PRIOR TO ROUGH-IN.
 - CONNECTION TO LIGHT FIXTURE MOUNTED IN CANOPY BY CANOPY MANUFACTURER. COORDINATE CONNECTION AND INSTALLATION REQUIREMENTS WITH CANOPY INSTALLER PRIOR TO ROUGH-IN. SEE CONNECTION DETAILS FROM CANOPY INSTALLER.
 - ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL LUTRON GRAFIK EYE WALL CONTROLLER #OSGRJ-6P-WH. FURNISH AND INSTALL 4-GANG BOX PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CUSTOM BUTTON KIT #OSGB-5B-WH-ENG. SEE DETAIL ON SHEET E2.1.
 - FURNISH AND INSTALL LUTRON GRX-TI 0-10V DIMMING INTERFACE FOR AUTOMATIC DAYLIGHT DIMMING. MOUNT ABOVE ACCESSIBLE CEILING.
 - ROUTE THROUGH SEPARATE ZONE OF GRAFIK EYE LIGHTING CONTROLLER.
 - FURNISH AND INSTALL LUTRON WIRELESS DAYLIGHT PHOTOCELL #RF2-DCRB-WH.



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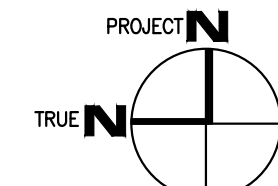
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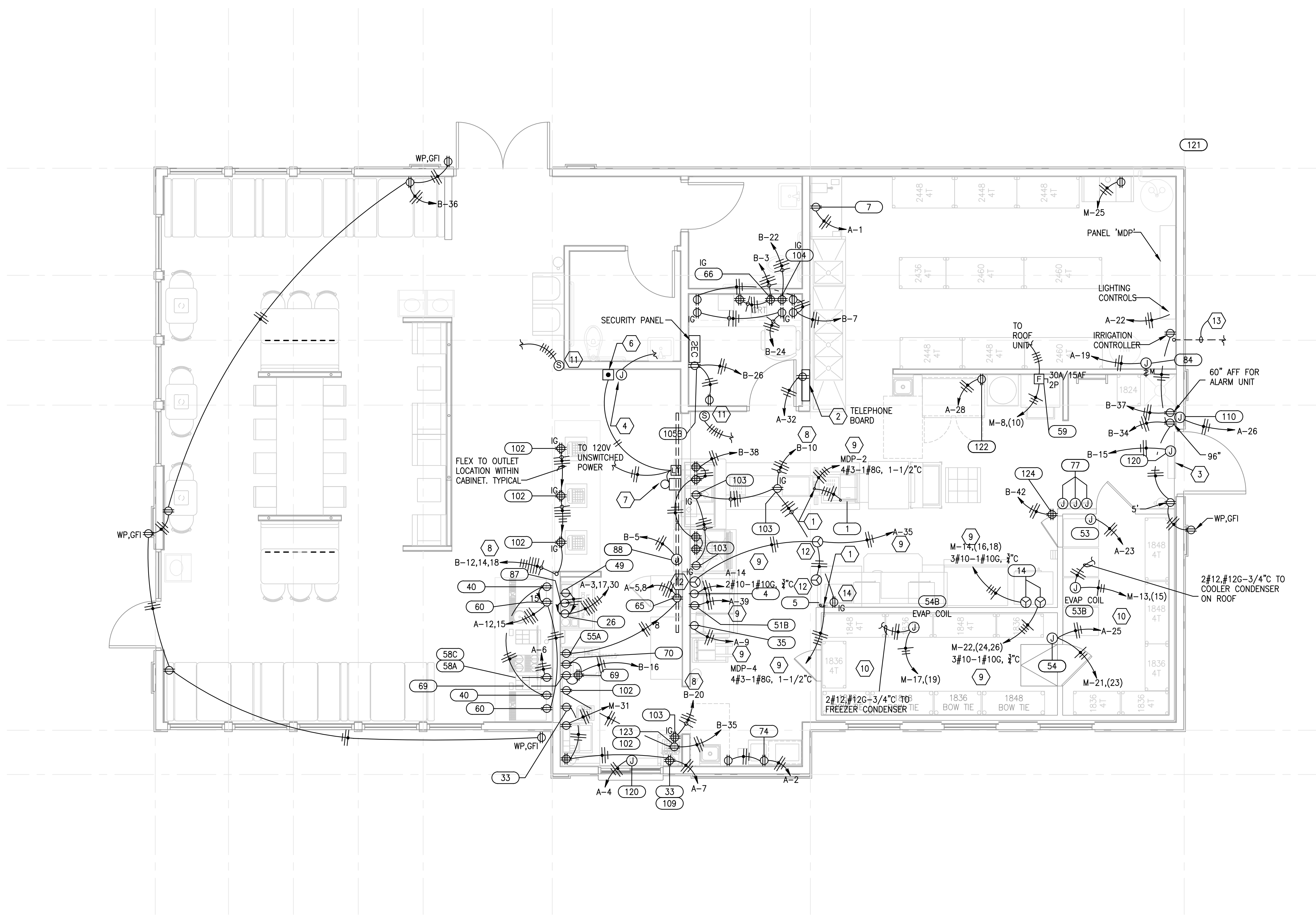
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ELECTRICAL LIGHTING PLAN

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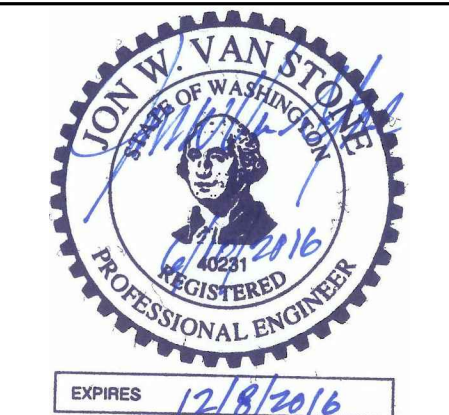
E1.0





- ### GENERAL NOTES
- REFER TO GENERAL AND SPECIFICATION NOTES, FOR ALL REQUIREMENTS. ALL ROUGH-IN ARE TO BE INSPECTED BY K.E.C. CONTRACTOR BEFORE ANY WALL FINISHES ARE TO BE INSTALLED.
 - ELECTRICAL CONTRACTOR TO COORDINATE RECEPTACLE MOUNTING HEIGHT, CONFIGURATION OF EQUIPMENT LOCATIONS AND REQUIREMENTS OF EQUIPMENTS WITH ARCHITECTURAL MILLWORK DRAWING PRIOR TO ROUGH-IN ELECTRICAL DEVICES.
 - ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODE ORDINANCES, ETC.
 - ALL OUTLET COVERS TO BE ENGRAVED PER CORRESPONDING BREAKERS. ALL OUTLET COVERS TO BE STAINLESS STEEL.
 - ELECTRICAL CONTRACTOR SHALL VERIFY AND PROVIDE ALL CONDUIT AND WIRE FOR CONNECTION TO ALL ELECTRICAL DEVICES, PER MANUFACTURERS'S INSTALLATION INSTRUCTIONS.
 - ALL 120V, 15A AND 20A RECEPTACLES INSTALLED IN THE KITCHEN AREA SHALL BE GFCI TYPE RECEPTACLES. IF RECEPTACLE IS NOT READILY ACCESSIBLE, FURNISH GFCI TYPE BREAKER OR GFCI TYPE DEAD FRONT IN ACCESSIBLE LOCATION AND FEED THROUGH TO RECEPTACLE.
 - CONDUIT FOR LIGHTING IN WALK-IN COOLERS AND FREEZERS SHALL BE RUN ON TOP OF THE BOXES AND SEALED AIR TIGHT INTERNALLY WHERE THEY ENTER THE UNITS.
 - COLOR OF RECEPTACLES AND COVERPLATES ARE TO COMPLIMENT SURROUNDING WALL (E.G.: BROWN/BROWN IN WOOD PANELING, ETC).
 - ALL RECEPTACLES ABOVE SINK COUNTER TOPS ARE TO BE G.F.I. TYPE.
 - NO EXPOSED CONDUITS ARE ALLOWED IN KITCHEN.
 - ALL PVC CHASES ARE TO HAVE CAPS AND BE STUBBED UP 4"A.F.F. MAXIMUM. ALL CHASES TO HAVE 90° SWEEPS.
 - ALL RECEPTACLES IN "PUBLIC" AREAS ARE TO TAMPER RESISTANT TYPE.
 - ALL EXPOSED CONDUIT IN THE SEATING AREA SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE FINISH. EXPOSED CONDUIT IS PERMITTED ONLY IF IT IS ABSOLUTELY NOT POSSIBLE TO CONCEAL THE CONDUIT. THE CONTRACTOR SHALL BRING CONDITIONS WHERE EXPOSED CONDUIT IS NECESSARY TO THE ATTENTION OF THE OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION. EXPOSED CONDUIT THAT HAS NOT BEEN PRIOR APPROVED SHALL BE REMOVED AND RE-ROUTED AT THE CONTRACTOR'S EXPENSE.
 - WHEN A CONDITION IN THE KITCHEN AREA REQUIRES EXPOSED CONDUIT, THE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S PROJECT MANAGER. ANY EXPOSED CONDUIT IN THE KITCHEN SHALL BE GRAY SEAL-TITE. EXPOSED CONDUIT THAT HAS NOT BEEN PRIOR APPROVED SHALL BE REMOVED AND RE-ROUTED AT THE CONTRACTOR'S EXPENSE.
 - REFER TO SHEET E1.2 FOR ADDITIONAL POWER REQUIREMENTS PERTAINING TO POS & COMMUNICATIONS SYSTEMS.
 - ITEM NUMBERS (100) ON PLAN CORRESPOND TO NUMBERS IN "ELECTRICAL SCHEDULE" SHEET E2.1 & "EQUIPMENT SCHEDULE" ON SHEET K1.1.(102)
 - ELECTRICAL CONTRACTOR SHALL ASSIST IN INSTALLING AUTOMOBILE DETECTOR SYSTEM AND SENSOR CABLE FROM DRIVE THROUGH WINDOW TO DRIVE THROUGH MENU BOARD WITH 10FT OF EXCESS CABLE AT BOTH ENDS. FINAL CONNECTIONS BY OTHERS.
 - ELECTRICAL CONTRACTOR SHALL ASSIST IN INSTALLING SPEAKER AND COMPUTER CABLES FROM DRIVE THROUGH WINDOW AND ORDER COUNTER, TO COOK'S SPEAKER AND COMPUTER PRINTERS AT FOOD PREP. COUNTER. LEAVE 10 FT. OF EXCESS CABLE AT BOTH ENDS. FINAL CONNECTION BY OTHERS.
 - AT COMPLETION OF ALL ELECTRICAL WORK AND AFTER FULL POWER HAS BEEN ENERGIZED, A FINAL INSPECTION OF ELECTRICAL WORK WILL BE MADE TO SEE THAT ALL WORK COMPLIES WITH THESE PLANS AND SPECIFICATIONS.
 - INSTALL COMPUTER PRINTER AND CASH REGISTER CIRCUIT IN SEPARATE CONDUIT WITH ISOLATED EQUIPMENT GROUND WIRE. INSTALL A SECOND EQUIPMENT GROUND WIRE WHETHER STEEL OR PVC IS USED. NO OTHER CIRCUITS IN THIS CONDUIT OR J-BOX EXCEPT FOR COMPUTERIZED EQUIPMENT AND ASSOCIATED TELEPHONE EQUIPMENT CIRCUITS. RECEPTACLES SHALL BE TWISLOCK HUBBELL AND IG-4700 PURPLE OR EQUAL FOR ITEM AND DUPLEX STRAIGHT BLADE HUBBELL #IG-5362 OR EQUAL FOR ITEM
 - THE CONDUIT SYSTEM EQUIPMENT GROUND WIRE SHALL BE GREEN. THE ISOLATED GROUND WIRE MUST BE GREEN BUT OF A DISTINCTLY DIFFERENT SHADE FROM THE EQUIPMENT GROUND WIRE, OR GREEN WITH A STRIPE. COLOR CODE SHALL BE CONSISTENT FROM PANEL TO ALL RECEPTACLES. AT TIME OF INSPECTION. INSPECTOR, CONTRACTOR SHALL REMOVE RECEPTACLES FROM BOXES TO VERIFY COLOR CODE AND CONNECTION OF GROUND WIRES.
 - ELECTRICAL CONTRACTOR SHALL INSTALL OWNER FURNISHED KITCHEN HOOD FAN CONTROL PANEL AND INSTALL ALL FIELD CONNECTIONS AS SHOWN ON VENDOR DRAWINGS, FIELD CONNECTIONS INCLUDED BUT ARE NOT LIMITED TO HOOD FAN SWITCHES, ANSUL MICRO SWITCHES, SMOKE DETECTORS, ETC. EXHAUST FANS SHALL RUN UPON ANSUL ALARM PER NFPA 96, SEE VENDOR WIRING DIAGRAM, "M" DRAWINGS & "K" DRAWINGS.
 - REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.

- ### KEYED NOTES
- ROUTE POWER AND DATA FOR COOK LINES THRU POWER POLE.
 - TELEPHONE CABINET. REFER TO DETAIL 6/E2.0.
 - REFER TO DETAIL 3/E2.3 FOR ELEVATION OF BACK DOOR.
 - +44" 4x4x3" DEEP GANG BOX FOR "OPEN/CLOSE" BUTTON. PROVIDE (1) 3/4" CONDUIT AND CONDUCTORS TO CONTROL PANEL
 - NOT USED.
 - PROVIDE EDWARDS #598 TRANSFORMER WITH #5933 MOUNTING PLATE INSTALLED ABOVE CEILING. PROVIDE NUTONE SURFACE MOUNTED CHIME; CONNECT TO SOUND (2) NOTES. PROVIDE EDWARDS #692-W WITH SNAP FIT WHITE PUSH BUTTON WITH #147-1 PLATE.
 - DOORBELL CHIME TO BE MOUNTED JUST BELOW CEILING.
 - FURNISH AND INSTALL GFCI TYPE BREAKER FOR PROTECTION OF ISOLATED GROUND RECEPTACLES IN KITCHEN.
 - BREAKER TO BE SHUNT TRIP TYPE BREAKER. ALL EQUIPMENT LOCATED UNDER THE KITCHEN HOOD TO BE SHUT OFF UPON ACTIVATION OF THE ANSUL SYSTEM. COORDINATE ALL CONNECTION REQUIREMENTS WITH KITCHEN HOOD SUPPLIER PRIOR TO ROUGH-IN.
 - ALL CONDUIT PENETRATIONS INTO AND OUT OF THE WALK-IN COOLER/FREEZER ARE TO BE PROVIDED WITH CONDUIT SEAL OFFS.
 - PRIOR TO ROUGH-IN, DIVISION 16 TO COORDINATE LOCATION AND MOUNTING HEIGHT OF SENSOR WITH DIVISION 15. DIVISION 16 TO FURNISH AND INSTALL BACKBOX, 3/4" CONDUIT, AND CONDUCTORS TO T-STAT MOUNTED TO HP CONTROL PANEL. DIVISION 15 TO FURNISH T-STAT OR SENSOR AND MAKE FINAL CONNECTIONS. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH DIVISION 15.
 - CONNECTION FOR ELECTRONIC GAS VALVE. SHUNT TRIP BREAKER TO DISCONNECT POWER TO CLOSE GAS VALVE UPON ACTIVATION OF THE ANSUL SYSTEM. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH DIVISION 15 PRIOR TO ROUGH-IN.
 - (1) 2" CONDUIT UNDERGROUND TO LANDSCAPE AREA. COORDINATE WITH LANDSCAPE CONTRACTOR FOR LOCATION.
 - MOUNT JUNCTION BOX AND RECEPTACLE TO FREEZER JUST BELOW CEILING FOR MONITOR.



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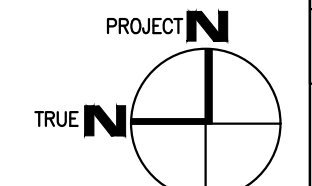
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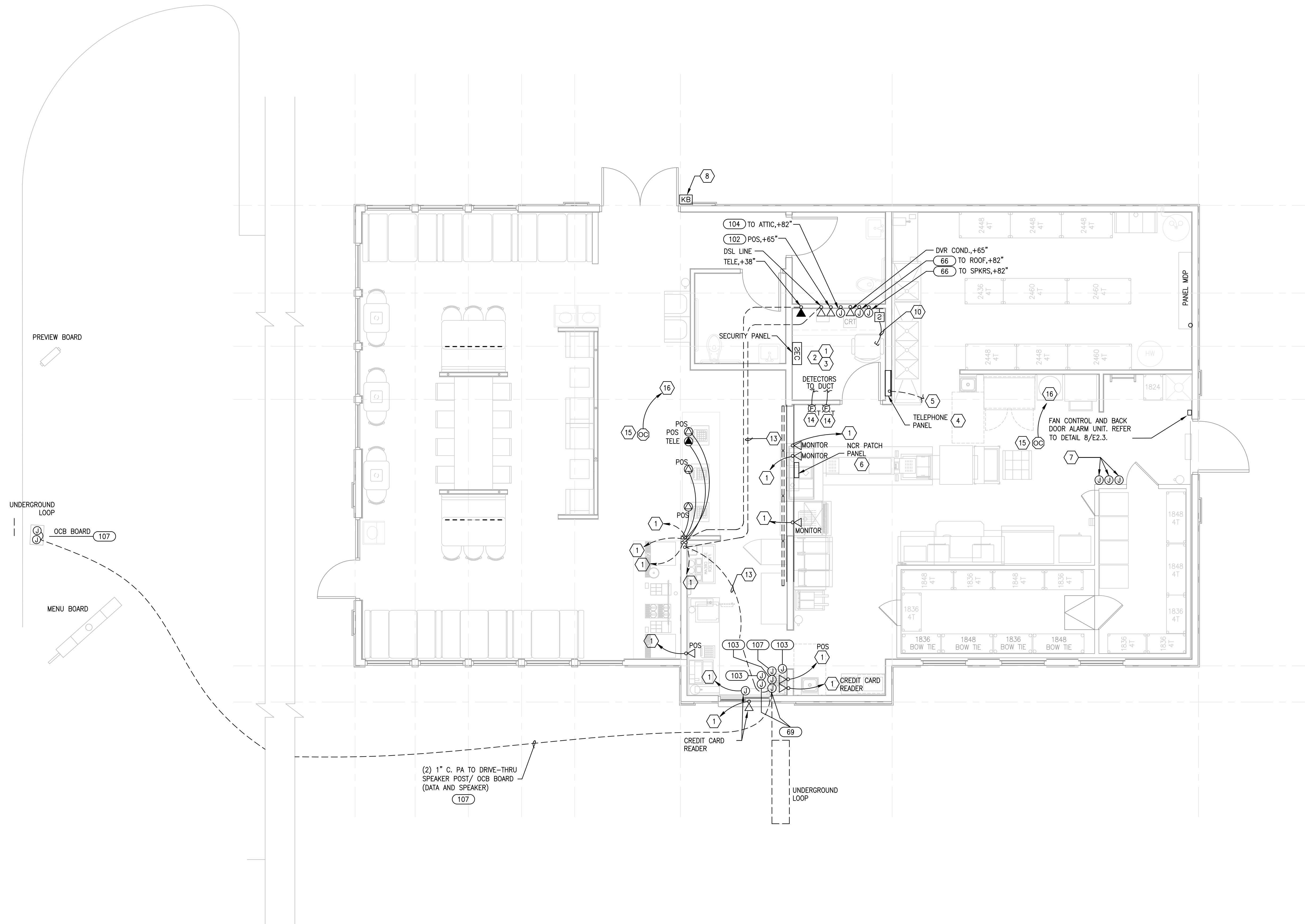
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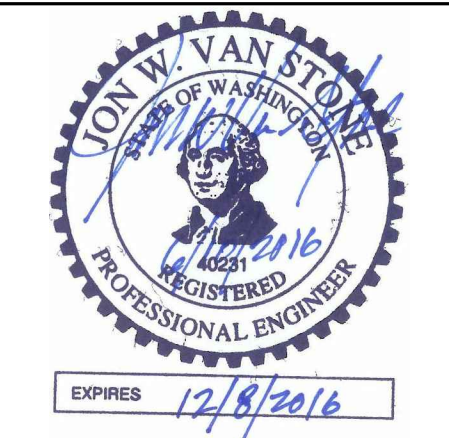
ELECTRICAL POWER PLAN

SHEET NUMBER:
E1.1





- ### GENERAL NOTES
- REFER TO K SHEETS FOR ADDITIONAL LOCATION INFORMATION.
 - ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - VERIFY AND FIELD COORDINATE ALL EQUIPMENT ROUGH-IN REQUIREMENTS.
 - ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
 - ROUTE ALL EXPOSED CONDUIT PARALLEL AND PERPENDICULAR TO TRUSSES BETWEEN BOTTOM OF TOP CHORD AND TOP OF BOTTOM CHORD AS REQUIRED. PAINT AS DIRECTED.
 - REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.
- ### KEYED NOTES
- PROVIDE 1" CONDUIT TO HUB WITH (3) CAT. 5 CABLE FROM EACH POS DATA OUTLET LOCATION.
 - PROVIDE 6"x6" PULLBOX FOR CONNECTION TO AUDIO SYSTEM. LOCATE AT AUDIO SHELF.
 - PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE TO TELEPHONE PANEL.
 - TELEPHONE TERMINAL CABINET. FURNISH AND INSTALL HOFFMAN ATC24246F ENCLOSURE FLUSH IN WALL BEHIND DOOR. SEE DETAIL ON 6 ON SHEET E2.0. PROVIDE 1#6 CU TO SERVICE GROUND.
 - PROVIDE 2" C. TO MAIN TELEPHONE/TELEVISION PANEL "TTB". SEE SITE PLAN FOR ADDITIONAL INFORMATION.
 - POS HUB. E.C. TO TERMINATE ALL CAT-5 CABLE FOR POS EQUIPMENT.
 - PROVIDE 4" SQUARE RECESSED JUNCTION BOX MOUNTED AT 60" AFF TO BOTTOM FOR HOOD SUPPRESSION SYSTEM MANUAL PULL STATION. PROVIDE WITH 3/4" CONDUIT TO A MINIMUM OF 12" ABOVE THE CEILING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION WITH SUPPLIER AND FIRE MARSHAL.
 - PROVIDE 4400 SERIES KNOX VAULT. PROVIDE KEYS WITH IDENTIFICATION TAGS FOR THE KNOX VAULT. OBTAIN ORDERING FORMS THRU LOCAL CITY OF SERVICES. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - FOR CONNECTION TO SECURITY SYSTEM KEY PAD.
 - PROVIDE 3/4" CONDUIT ONLY FOR SECURITY SYSTEM WIRES. STUB INTO ACCESSIBLE CEILING SPACE FOR ROUTING TO SECURITY PANEL AND HP PANEL.
 - NOT USED.
 - NOT USED.
 - PROVIDE 1" EMPTY CONDUIT WITH PULLWIRE UNDERGROUND.
 - WALL MOUNTED AUDIO/VISUAL ANNUNCIATOR. AUDIO/VISUAL TO BE VIA A PIEZZO ELECTRIC HORN WITH LED INDICATOR LIGHT AND RESET. MOUNT AT +80"
 - PROVIDE AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. COORDINATE SENSOR REQUIREMENTS WITH IFS CONTROL SYSTEM.
 - PROVIDE AND INSTALL 3/4" CONDUIT AND CONDUCTORS ABOVE CEILING FROM OCCUPANCY SENSOR TO HP PANEL FOR CONTROL. COORDINATE REQUIREMENTS WITH IFS PANEL PRIOR TO ROUGH-IN.



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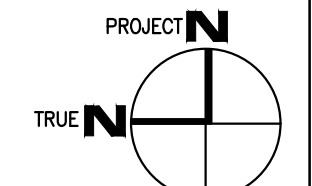
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SPECIAL SYSTEMS PLAN

SHEET NUMBER:

E1.2



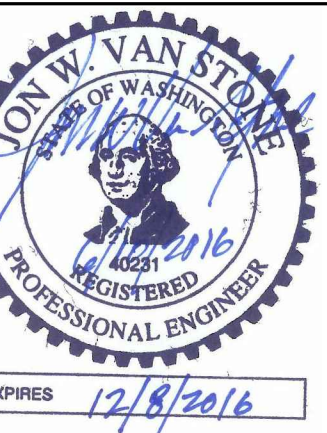
SPECIAL SYSTEMS PLAN
 SCALE: 1/4"=1'-0" 1

eco
 electrical engineering company
 engineers 4 tomorrow

world wide web: e2co.com
 800 s. industry way, suite 350
 meridian, idaho 83642
 phone: 208.378.4450
 fax: 208.378.4451
 e2co project #: 16060

GENERAL NOTES

A. DIMENSIONS START FROM INSIDE FACE OF STUD WALL AT FOUNDATION LINE & OR FACE OF STUD WALL AND RUN TO CENTERLINE OF OUTLETS OR STUB. HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS. VERIFY ALL DIMENSIONS SHOWN.



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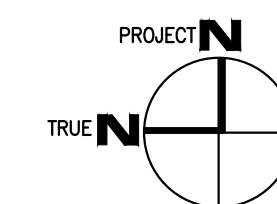
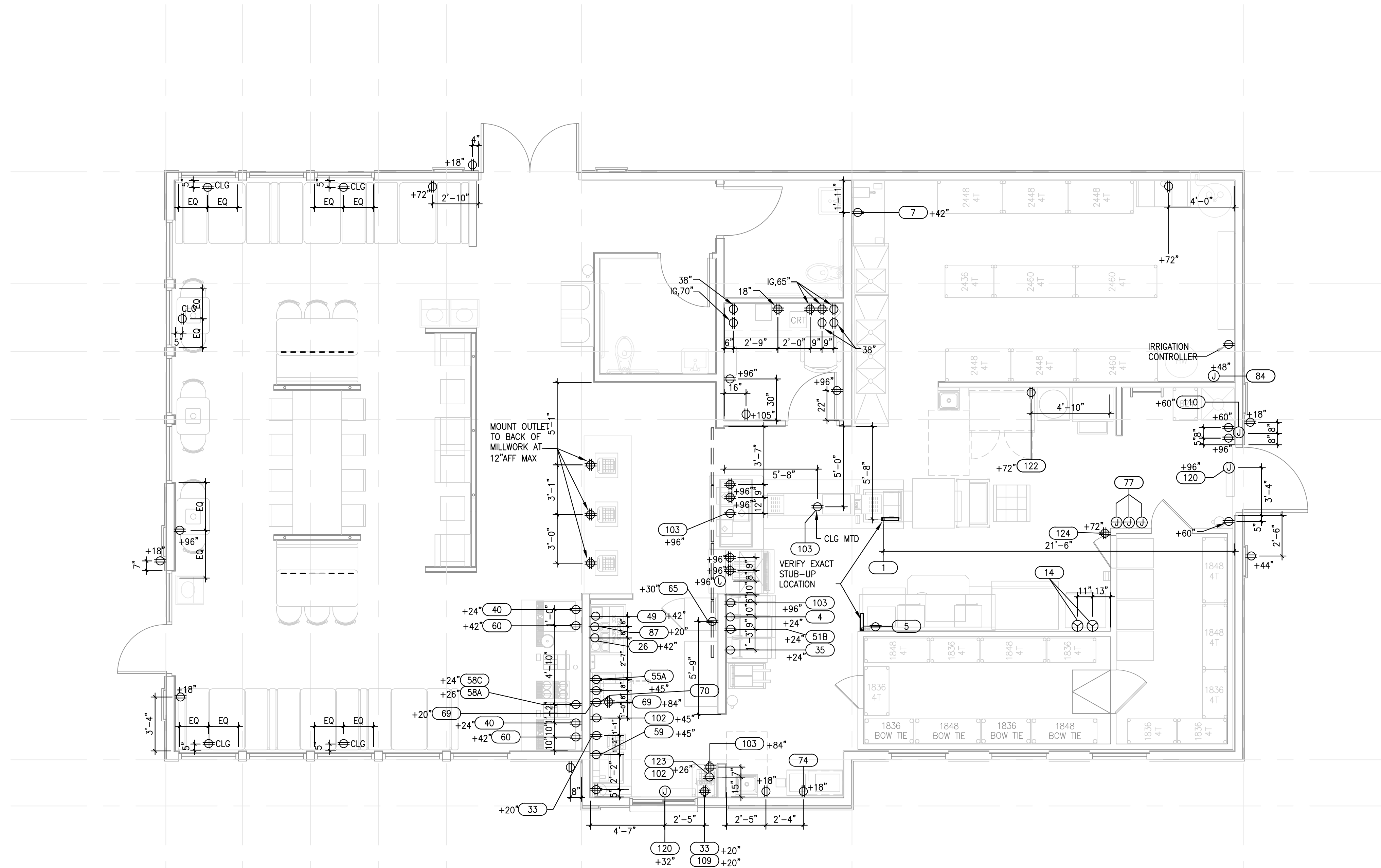
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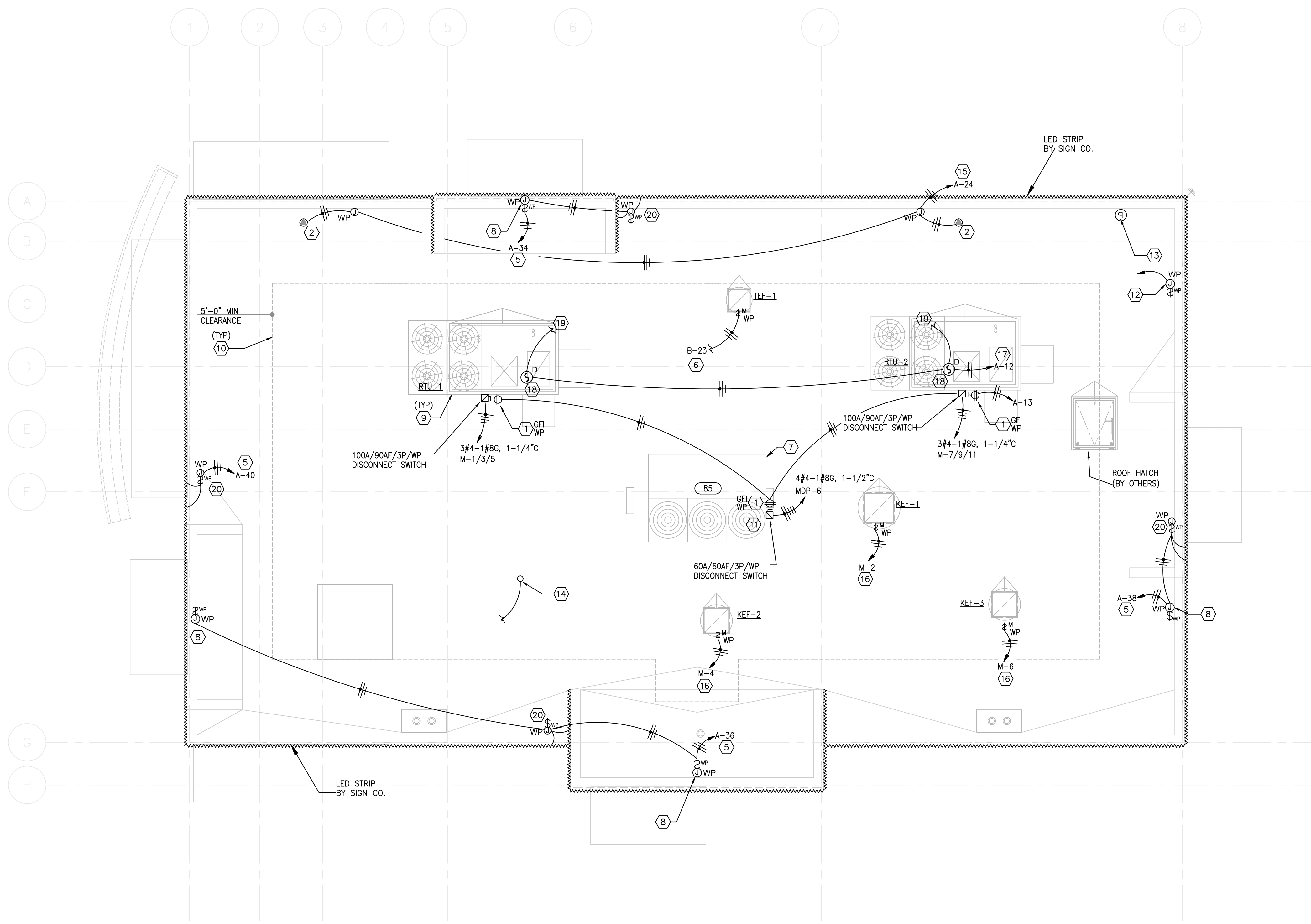
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ELECTRICAL
 ROUGH-IN PLAN

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E1.3



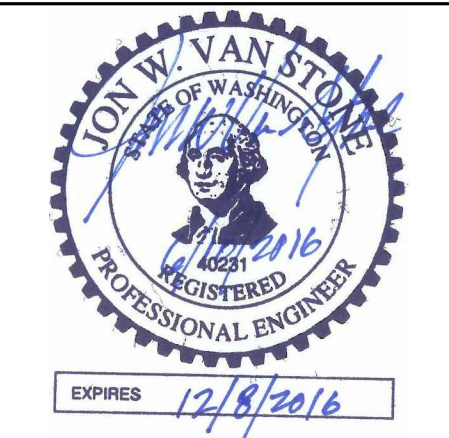


GENERAL NOTES

- A. COORDINATE ALL WORK ON HVAC SYSTEMS WITH DIVISION 15.
- B. ALL BREAKERS SUPPLYING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
- C. CONTRACTOR SHALL ROUTE ALL CONDUIT AND CONDUCTORS IN CEILING SPACE BELOW ROOF. IF CONTRACTOR ROUTES CONDUIT AND CONDUCTORS ON ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS PER SECTION 310.15(A)(2) OF THE 2008 NEC AND MODIFY CONDUIT SIZES AS REQUIRED.

KEYED NOTES

- 1. WEATHERPROOF GFI SERVICE RECEPTACLE FURNISHED WITH HVAC EQUIPMENT, CIRCUIT ON A-13.
- 2. PROVIDE HEAT TAPE IN STAR SHAPED PATTERN AROUND ROOF DRAIN AND OVERFLOW DRAIN. SEE DETAIL #9 ON SHEET E2.3 FOR ADDITIONAL INFORMATION.
- 3. NOT USED.
- 4. NOT USED.
- 5. ROUTE CIRCUIT THROUGH LIGHTING CONTRACTOR IN IFS ENCLOSURE.
- 6. EXHAUST FAN TO BE POWERED AND CONTROLLED WITH RESTROOM LIGHTING. SEE DETAIL 1/SHEET E2.3.
- 7. ROOFTOP REFRIGERATION SYSTEM, ITEM 85. REFER TO KITCHEN SHEET K2.0 FOR INSTALLATION INFORMATION ON THIS UNIT.
- 8. VERIFY LOCATION & NUMBER OF SIGNS WITH SIGN VENDOR. RUN SIGN CIRCUITS THROUGH CONTRACTOR, CONTROLLED THROUGH PHOTOCELL. PROVIDE FLUSH MOUNTED WEATHERPROOF JUNCTION BOX IN EXTERIOR FACE OF WALL.
- 9. CONTRACTOR SHALL RUN CONTROL WIRING TO ROOF TOP UNITS, SENSORS, AND THERMOSTATS. COORDINATE WITH MECHANICAL CONTRACTOR.
- 10. PROVIDE MINIMUM 5'-0" SETBACK FROM INSIDE FACE OF PARAPET WALLS, FOR INSTALLATION OF ANY MECHANICAL AND ELECTRICAL EQUIPMENT.
- 11. REFER TO REFRIGERATION PLAN, SCHEDULES AND DETAILS, DRAWING K2.0 FOR ADDITIONAL INFORMATION FOR A COMPLETE INSTALLATION FOR CONTROLS OF REFRIGERATION UNITS.
- 12. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" CONDUIT AND PULLSTRING WITH WEATHER CAP FOR ROUTING CABLES FROM THE RAIN GAGE TO SPRINKLER CONTROLLER BELOW. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX NEAR TOP OF PARAPET FOR RAIN GAGE. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 13. INSTALL PHOTOCELL FROM SIDE OF J-BOX MOUNTED AT PARAPET HEIGHT BUT NOT ABOVE TO AVOID BEING SHADED. AIM PHOTOCELL UP OR TOWARD NORTH. REFER TO ELECTRICAL DETAIL 1/E2.4 FOR ADDITIONAL INFORMATION.
- 14. PROVIDE 48"x48" PAD FOR INSTALLATION OF SATELLITE DISH (BY OTHERS). ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" CONDUIT AND PULLSTRING WITH WEATHER CAP FOR ROUTING OF CABLES FROM THE SATELLITE DISH TO EQUIPMENT BELOW (BY OTHERS). REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
- 15. PROVIDE GFEP TYPE CIRCUIT BREAKER FOR HEAT TAPE CIRCUIT.
- 16. ROUTE CIRCUIT THROUGH CONTRACTOR FOR CONTROL OF FAN AND SHUT DOWN OF FAN UPON ANSUL ACTIVATION.
- 17. BREAKER TO BE RED HANDLED WITH LOCKOUT CAPABILITIES.
- 18. FACTORY INSTALLED DUCT SMOKE DETECTOR ON RETURN SIDE OF UNIT DOWN IN CONDITIONED SPACE. DETECTOR TO SHUT DOWN HVAC UNIT UPON ACTIVATION. DIVISION 15 TO INSTALL THE DUCT DETECTOR AND DIVISION 16 TO MAKE FINAL CONNECTIONS.
- 19. TO ANNUNCIATOR AT SERVICE COUNTER. SEE SHEET E1.2.
- 20. WEATHERPROOF JUNCTION BOX AND DISCONNECT RATED WEATHERPROOF SWITCH TO BE INSTALLED ON PARAPET FOR CONNECTION TO LED RIBBON LIGHT.



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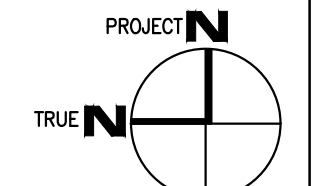
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Δ	DATE	DESCRIPTION

ROOF POWER PLAN

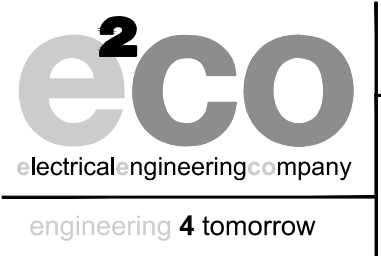
SHEET NUMBER:

E1.4



ROOF POWER PLAN
 SCALE: 1/4"=1'-0"

1



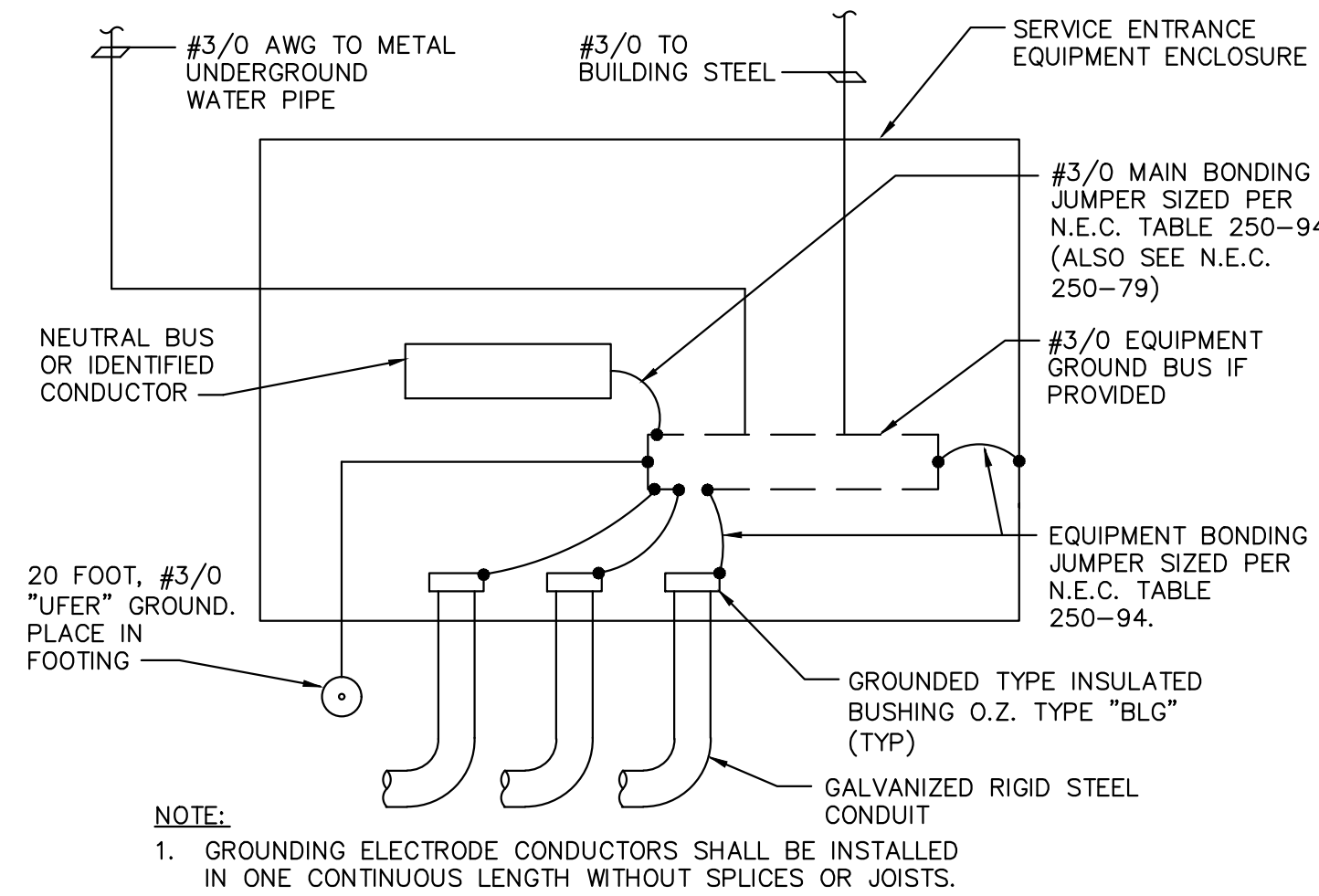
world wide web: e2co.com
 800 s. industry way, suite 350
 meridian, idaho 83642
 phone: 208.378.4450
 fax: 208.378.4451
 e2co project #: 16060

ELECTRICAL RISER NOTES

1. MAIN FEEDER BREAKERS IN PANEL MDP AND PANELBOARD BREAKERS SHALL BE FIELD LABELED PER PROVISIONS OF NEC 110-22 TO INDICATE WHEN COMBINATION SERIES RATING ARE USED. LABEL SHALL READ AS FOLLOWS: "CAUTION-SERIES RATED SYSTEM XX,000 AMP RATING (PER UTILITY) IDENTIFIED REPLACEMENT COMPONENT REQUIRED." MINIMUM AIC RATING OF PANELBOARD BREAKERS SHALL BE 10KAC.
2. PANEL MDP SHALL BE SERVICE ENTRANCE RATED. ALL BREAKERS SHALL BE 65KAC RATED.
3. COMPLY WITH LOCAL ELECTRIC UTILITY REQUIREMENTS FOR METERING AND TRANSFORMER RELATED WORK.
4. PHOTOCELL (PC) IS SHIPPED LOOSE INSIDE CONTROL PANEL. DISTRIBUTION EQUIPMENT, ELEC CONTRACTOR SHALL MOUNT PC ON ROOF FACING NORTH AND WIRE TO DESIGNATED TERMINALS ON CONTROL PANEL TERMINAL STRIP. SEE SHEET E2.4.
5. PROVIDE TYPED DIRECTORY CARD IN EACH PANELBOARD. HAND WRITE "SPARE" FOR SPARE BREAKERS.
6. ALL PANELS A, B, M, MDP ARE PROVIDED BY THE TENANT AND INSTALLED ON SITE BY ELECTRICAL CONTRACTOR.
7. PROVIDE ISOLATED GROUND BUS IN PANEL "B" IN ADDITION TO EQUIPMENT GROUND BUS.
8. ALL CONDUCTORS ARE COPPER WITH THWN, XHHW, OR THW INSULATION.
9. PROVIDE MEANS TO "PROVIDE AND INSTALL".
10. PANEL 'MCC' AND 'BCC' TO HAVE SHUNT TRIP PROVISIONS AND RECEIVE SIGNAL FROM ANSUL SYSTEM UPON ACTIVATION TO DISCONNECT POWER TO PANEL 'MCC' AND 'BCC'.

RISER NOTES
NOT TO SCALE

1



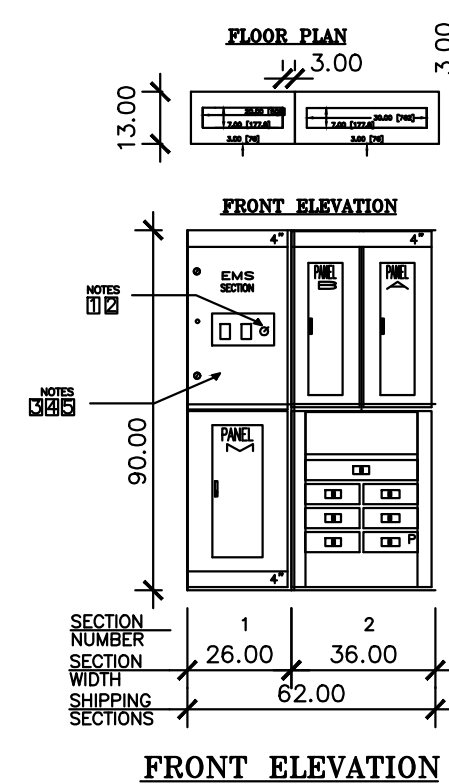
GROUNDING OF MAIN SERVICE ENTRANCE
NOT TO SCALE

2

FLOOR PLAN

General Information

IFS Switchboard, Front Access/ Front and Rear Align System Voltage: 208Y/120V 3-Phase 4-Wire
Short Circuit Interrupter Rating: 65KA
Main Bus: 600A, Neutral Bus: 600A
Copper Bus
Copper Ground Bus
Bottom Incoming // Main Lugs: (2) #2-500
(1) #6-350 kcmil Ground Lug Supplied As Standard Bus Bracing: 65KA
Suitable For Use As Service Equipment
Switchboard Construction Meets UL-891
Enclosure: Type 1
Finish: ANSI-61

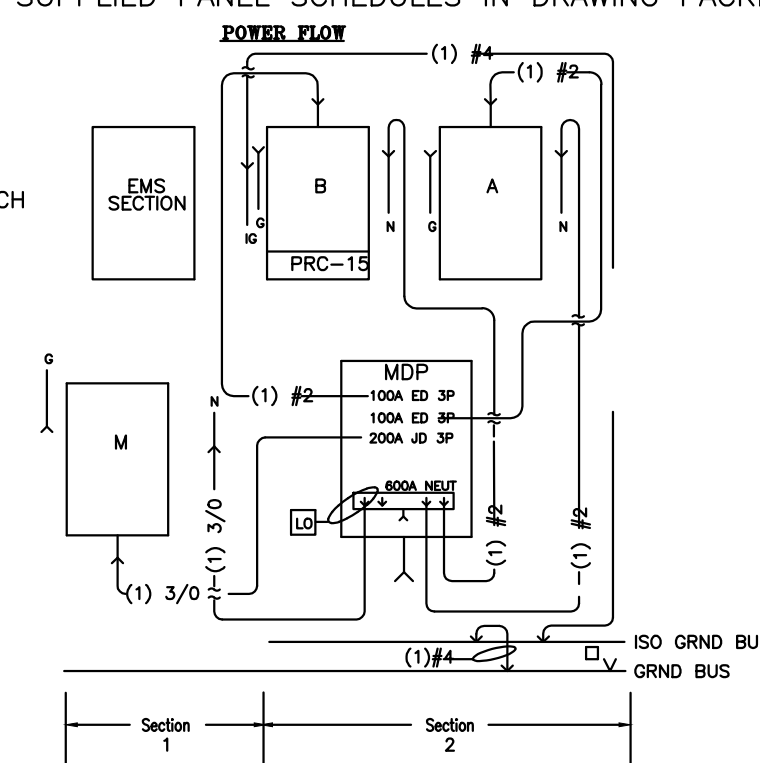


FRONT ELEVATION

POWER FLOW

MANUFACTURING INFORMATION NOTES

- REFER TO WD08B050 FOR SWITCHBOARD ELECTRICAL LEGEND
- **SWITCHBOARD IS SEISMIC LABELED (IBC/CBC Seismic Qualified)**
- REFER TO DWG# 1A32007 SHT 1 FOR SEISMIC - FREE STANDING INSTALLATION GUIDELINES
- PANEL GROUND AND NEUTRAL LOCATIONS MAY VARY LEFT-SIDE OR RIGHT-SIDE DEPENDING ON APPLICATION
- THE CABLE SIZES SPECIFIED ON THIS DRAWING ARE THE MINIMUM SIZES REQUIRED FOR THIS APPLICATION
- REFER TO TEST SPECIAL PROCEDURE FOR TESTING
- REFER TO DRAWING CAR008-W1 FOR WIRING DIAGRAM
- REF TO MLC10A0160 FOR PALLET CONSTRUCTION, INSTALL BRACKETS.
- 200% INSPECTION REQUIRED, CONTACT ENGINEER 803-481-6893
- REFER TO WD04A021 AND CAR008-W1 FOR SHUNT TRIP WIRING
- INSTALL IN/ISO GROUND IN PANEL B
- INSTALL CUSTOMER SUPPLIED PANEL SCHEDULES IN DRAWING PACKET



- INTEGRATED FACILITIES SYSTEM (IFS) GENERAL NOTES FOR CARL JR'S RESTAURANTS.
1. THE IFS SHALL BE DELIVERED AS A SINGLE WALL WITH NO SHIPPING SPLITS. THIS INSURES THAT ALL INTERNAL CONDUCTORS AND LINE SIDE CONTROL WIRING ARE TERMINATED PROPERLY. NO ADDITIONAL FIELD LABOR IS REQUIRED TO BOLT CABINET SECTIONS TOGETHER OR TO RECONNECT COILED UP CONDUCTORS.
 2. THE IFS WILL BE FURNISHED BY CARL'S JR. FOR ALL CKE RESTAURANTS INC. PROJECTS. TO REVIEW AN UN PRICED BILL OF MATERIAL PRIOR TO THE BID, PLEASE CONTACT WESCO RETAIL & COMMERCIAL AT (800) 417-7543 OR FAX (614) 934-6403 OR EMAIL BFACOR@WESCO.COM. NOTE: FOR ALL "FRANCHISE" OWNED PROJECTS, THE IFS WILL BE SUPPLIED BY THE OWNER. PLEASE CONTACT THE SAME NUMBERS ABOVE AND INDICATE YOUR PROJECT IS A "FRANCHISE" PROJECT. WE WILL SEND YOU A PRICED PROPOSAL AND DRAWING.
 3. EC IS RESPONSIBLE TO RE TORQUE ALL FACTORY PRE WIRED LINE SIDE POWER CONNECTIONS BEFORE FINAL STARTUP OF THE IFS.
 4. LEAD TIME IS 4-6 WEEKS FOR MFR AFTER PURCHASE ORDER AND CREDIT IS COMPLETE. ESTIMATE ONE WEEK FOR TRANSIT SHIPPING TIME.
 5. EC WILL BE RESPONSIBLE FOR OFFLOADING AND SETTING OF THE IFS. THERE ARE TOP LIFT PROVISIONS AS WELL AS FORK LIFT PROVISIONS FOR EASY OFFLOADING AND SETTING OF THE EQUIPMENT.
 6. EC IS TO CONTACT WESCO TO OBTAIN SITE SPECIFIC DRAWINGS. DRAWINGS IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. WESCO WILL PROVIDE A SET OF "AS BUILT" DRAWINGS TO THE SUCCESSFUL EC SO ACCURATE ROUGH IN COORDINATION CAN BE COMPLETED.

INTEGRATED FACILITIES SYSTEM (IFS)/ELEVATION
NOT TO SCALE

3

LABEL 1
REF. DET. 3/E2.0

STORE OPERATION:
1 - DISARM RESTAURANT SECURITY SYSTEM
2 - TURN "OPEN/CLOSE" SWITCH TO "OPEN" WHEN OPEN FOR BUSINESS
3 - TURN "OPEN/CLOSE" SWITCH TO "CLOSED" WHEN CLOSED FOR BUSINESS
4 - ARM RESTAURANT SECURITY SYSTEM PRIOR TO LEAVING

LABEL 2
REF. DET. 3/E2.0

BASIC CONTROLS SEQUENCE OF OPERATION FOR OPERATIONS:

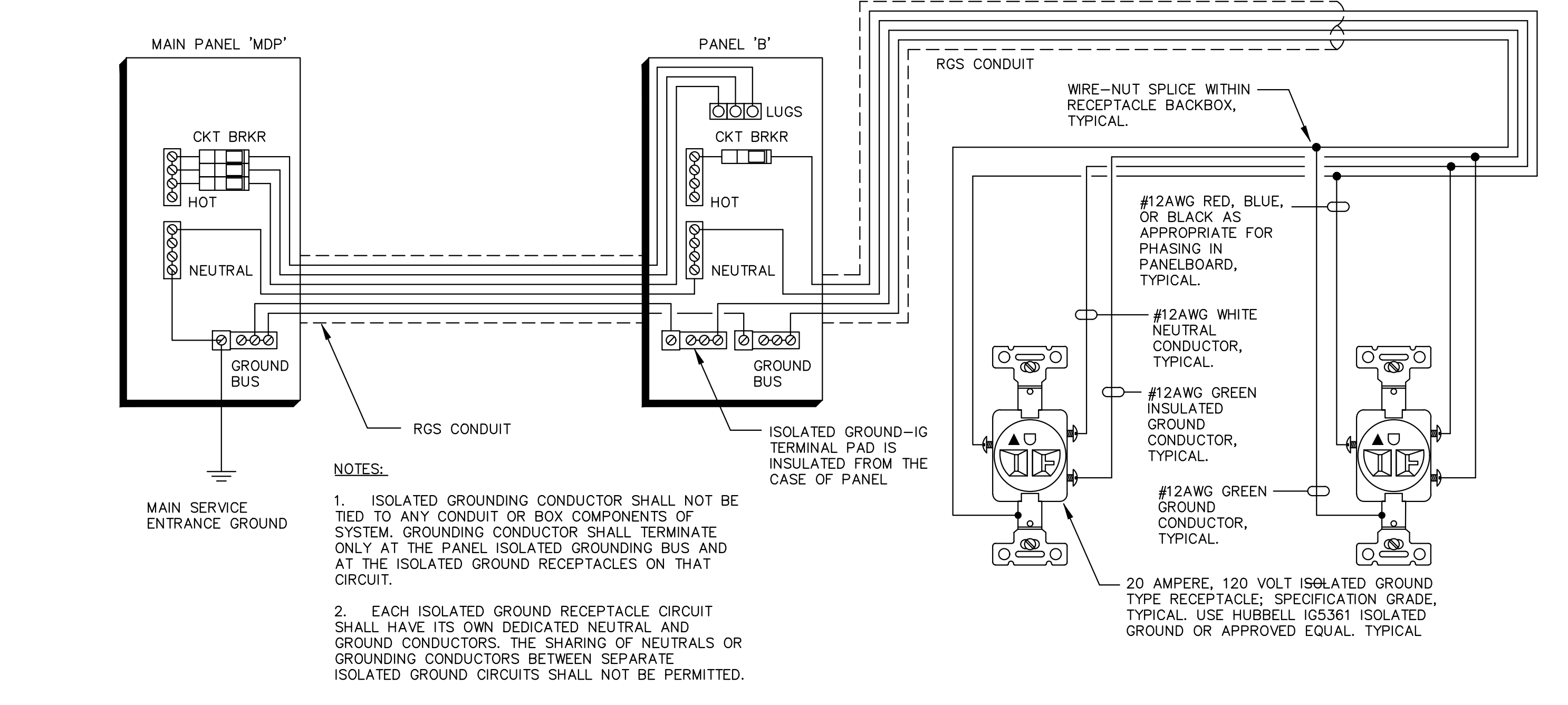
- MORNING ARRIVAL - OUTDOOR SECURITY LIGHTS AND INDOOR NIGHT LIGHTS ON OVERNIGHT FOR MORNING ARRIVAL.
- DISARM ALARM SYSTEM - EMPLOYEE LIGHTS, EXHAUST HOODS, RTU FANS AND COOKING EQUIPMENT TURN ON.
- PARKING LIGHTS TURN ON IF DARK OUTSIDE. KITCHEN RTU CHANGES TO OCCUPIED TEMPERATURES.
- AT STORE OPEN - TURN STORE OPEN SWITCH TO "OPEN" - CUSTOMER LIGHTS TURN ON (IF NOT SET TO 24HR STORE MODE) SIGNS/ BUILDING LIGHTS TURN ON IF DARK OUTSIDE. DINING RTU CHANGES TO OCCUPIED TEMPERATURES.
- SUNRISE - PARKING, SECURITY AND BUILDING LIGHTS WILL TURN OFF AUTOMATICALLY WHEN ENOUGH OUTDOOR LIGHT EXISTS.
- AT 11:00AM - GRIDDLE EXHAUST HOOD TURNS OFF AUTOMATICALLY.
- SUNSET - PARKING, SECURITY AND BUILDING LIGHTS WILL TURN ON AUTOMATICALLY WHEN IT'S DARK ENOUGH OUTSIDE.
- AT STORE CLOSE - TURN STORE OPEN SWITCH TO "CLOSED" - CUSTOMER LIGHTS TURN OFF (IF NOT SET TO 24HR STORE MODE) SIGNS/ BUILDING LIGHTS TURN OFF. DINING RTU CHANGES TO UN-OCCUPIED TEMPERATURES.
- LEAVING STORE - ARM ALARM SYSTEM - COOKING EQUIPMENT TURNS OFF. EMPLOYEE LIGHTS, PARKING LIGHTS, EXHAUST HOODS, RTU FANS TURN OFF AFTER DELAY PERIOD. KITCHEN RTU CHANGES TO UN-OCCUPIED TEMPERATURES.
- OUTDOOR SECURITY LIGHTS AND INDOOR NIGHT LIGHTS ON OVERNIGHT.

STORE OPERATION LABELS
NOT TO SCALE

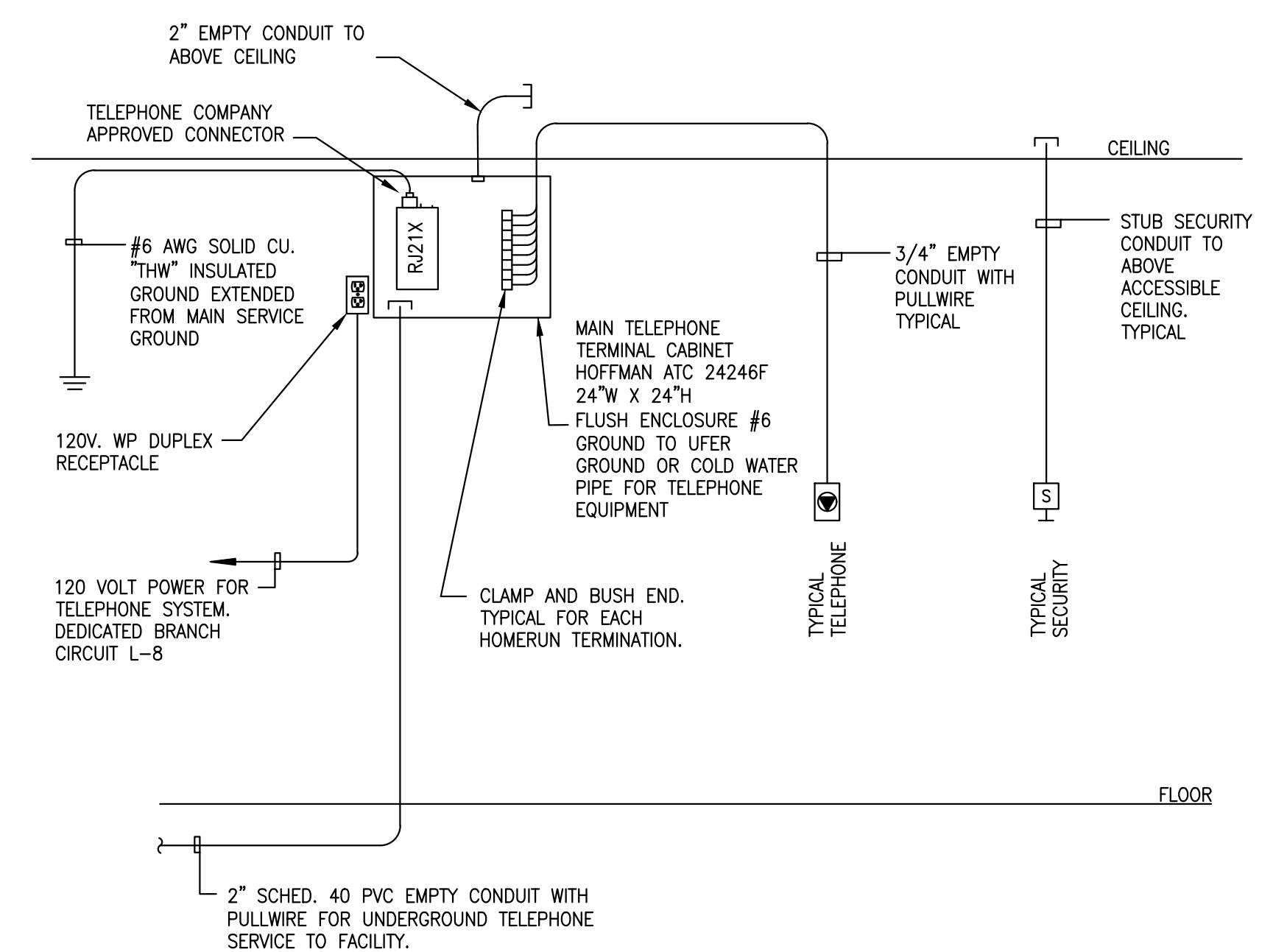
4

DEDICATED ISOLATED GROUND SCHEMATIC
NOT TO SCALE

5

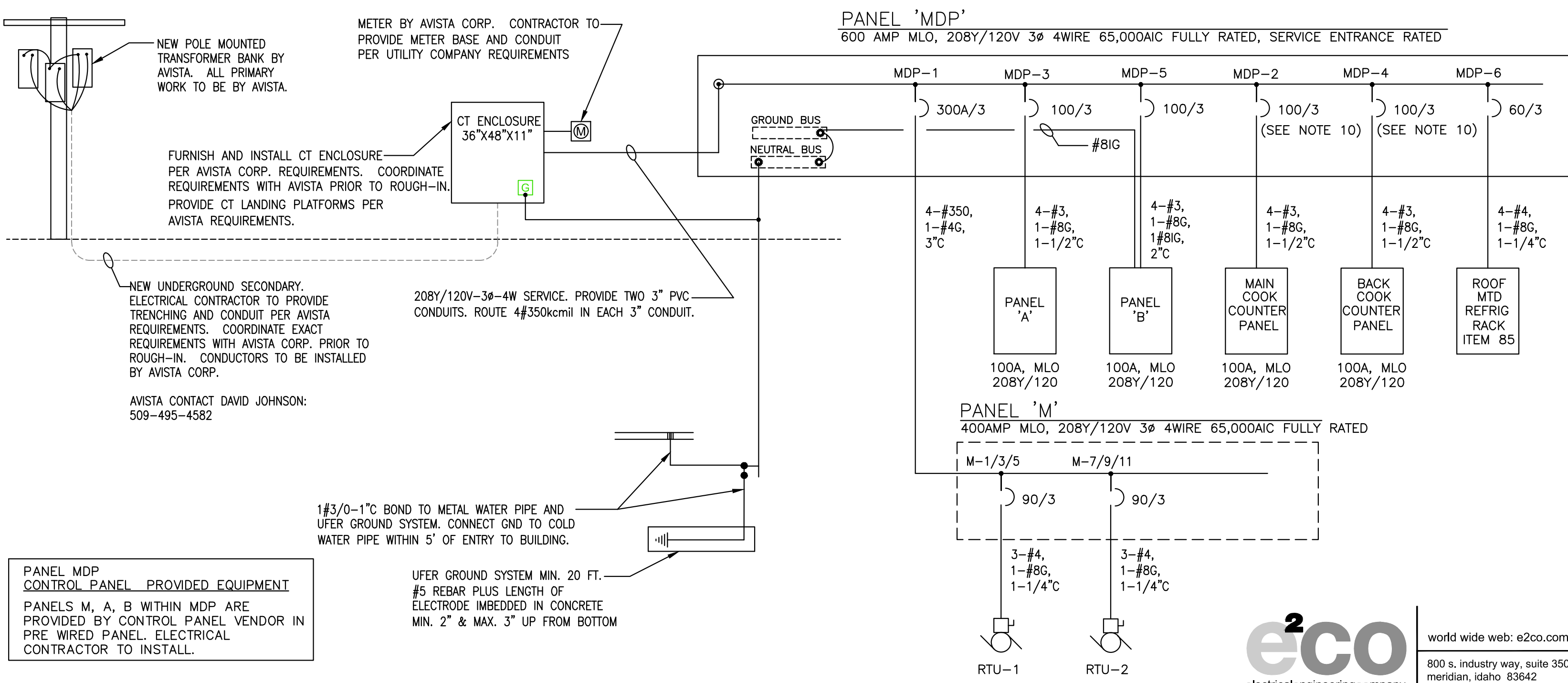


- TELEPHONE SYSTEM RISER DIAGRAM
1. VERIFY, COORDINATE AND INCORPORATE THE REQUIREMENTS OF THE TELE. CO. AND ALL GOVERNING CODES IN FORCE, PRIOR TO COMMENCEMENT OF WORK.
 2. FURNISH AND INSTALL A RACEWAY SYSTEM OF CABLE AND 3/4" CONDUIT AND PROPERLY SIZED JUNCTION BOXES WITH COVERPLATES FOR THE TELEPHONE SYSTEM AS SHOWN ON THE DRAWINGS AND IN THE DIAGRAM.
 3. ALL CONDUIT SHALL ORIGINATE AT THE JUNCTION BOXES, BE NO SMALLER THAN 3/4" ELECTRICAL TRADE SIZE, BE CONTINUOUS AND TERMINATE AT THE SYSTEM TERMINAL BOARD NEATLY CLAMPED AND WITH BUSHED ENDS. HOME RUNS SHALL BE LIMITED TO ONE (1) TELEPHONE OUTLET IN ONE 3/4" CONDUIT.
 4. THERE ARE MULTIPLE DEDICATED TELEPHONE LINES AND THEY SHALL BE SEGREGATED FROM EACH OTHER AND SHALL BE SEGREGATED FROM THE STANDARD TELEPHONE LINES.
 5. FURNISH AND INSTALL A 200 LB TEST NYLON PULL LINE IN ANY EMPTY CONDUIT. TAG EACH END OF PULL LINE AS TO SERVICE AND THE LOCATION OF THE OPPOSITE TERMINUS OF THE CONDUIT.
 6. ALL CONDUITS SHALL CONTAIN ONE (1) HIGH QUALITY 4 PAIR CAT III PLENUM CABLE TELEPHONE LINES PULLED WITH PROPER INSTALLED JACKS. LINES MUST BE LABELED AT TELEPHONE BOARD.



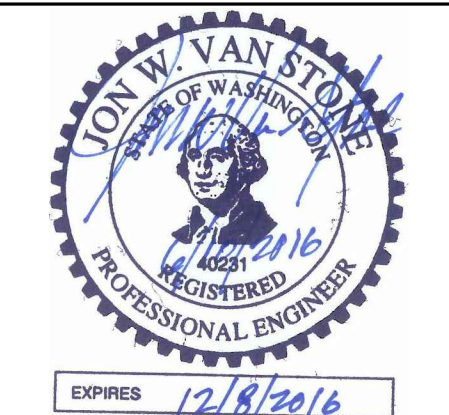
TELEPHONE SYSTEM RISER DIAGRAM
NOT TO SCALE

6



ELECTRICAL RISER DIAGRAM
NOT TO SCALE

7



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(208) 333-9031 www.erstadarchitects.com

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PROTOTYPE T27-C-54 24608 - CONTEMPORARY STAR
1230 N. Division Street
Spokane, WA 99202

PROJECT: 151101
DATE: 06/10/16
DRAWN: kwo
CHECKED: jvs

Permit Set

DATE	DESCRIPTION

ELECTRICAL DETAILS AND RISERS

SHEET NUMBER:

E2.0

eco
electrical engineering company
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16060

ELECTRICAL LOAD SUMMARY
CARL'S JR. SHARP & DIVISION

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	MISC.	ELEC. HEAT	WATER HEAT	KVA	AMPS	KVA	AMPS
A	208Y/120	11	4	0	11	0	3	1	0	30	84	29	81
MDP	208Y/120	0	0	0	0	17	0	0	0	17	47	17	47
B	208Y/120	11	8	0	0	0	1	0	0	20	55	23	63
M	208Y/120	0	0	0	15	58	1	0	0	74	205	69	190
MAIN COOK LINE	208Y/120	0	0	0	8	0	0	0	0	8	21	5	14
BACK COOK LINE	208Y/120	0	0	0	18	0	0	0	0	18	50	12	32
TOTAL (NEW)		22	13	0	51	75	5	1	0	167	461	153	423

MAIN SERVICE DISCONNECT/EQUIPMENT RATING: 600 AMPS

Fault Current at Service Equipment

FAULT CURRENT AN TERMINALS OF MAIN DISCONNECT =

7,520 amperes

MAIN SERVICE DISCONNECT AIC RATING:

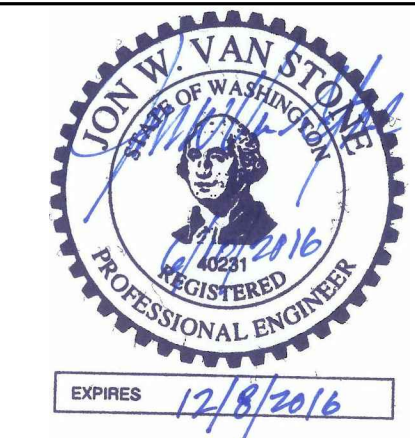
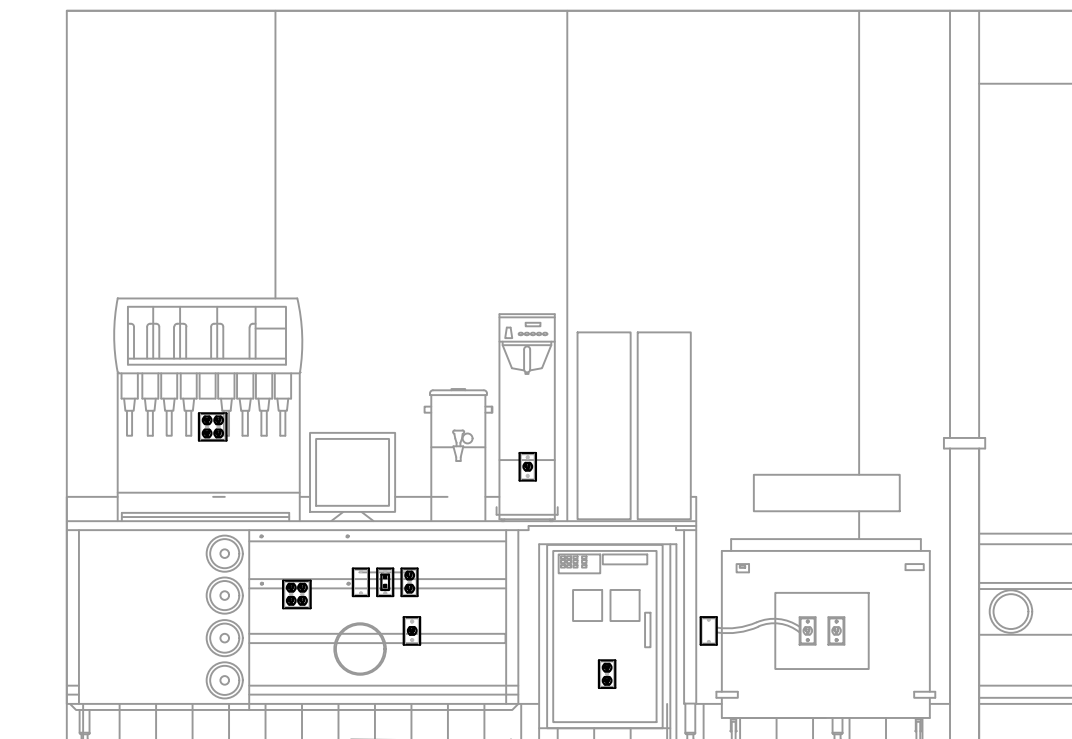
65K AIC

SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C., AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES.

PANEL: MDP		PROJECT: CARL'S JR. SHARP & DIVISION				ENCLOSURE TYPE: NEMA 1, LOCKABLE					
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 600 AMPS		SC RATING: 65K AIC			
ENTRY: TOP/BOTTOM		TYPE: M.L.O.		MOUNTING: SURFACE							
REMARKS: IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC											
*PROVIDED WITH IFS											
OKT NO.	DESCRIPTION	AMPS/POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (W)	LOAD W	LOAD W	AMPS/POLES	DESCRIPTION	OKT NO.
1	PANEL 'M'	300	22899	190.8	350	26699.4	3	31.7	3900	100	2
		300	22899	190.8	350	25959.4	3	20.5	2460	100	3
		300	22899	190.8	350	24299.4	3	11.7	1400	100	4
3	PANEL 'A'	100	9732	81.1	3	16044.1	3	52.6	6312	100	4
		100	9732	81.1	3	15782.1	3	50.4	6050	100	4
		100	9732	81.1	3	15332.1	3	46.7	5600	100	4
5	PANEL 'B'	100	7522	62.7	3	13198.1	6	47.3	5676	60	6
		100	7522	62.7	3	13198.1	6	47.3	5676	60	6
		100	7522	62.7	3	13198.1	6	47.3	5676	60	6
CONNECTED LOAD - TOTAL KW		167		KW		55842		54340		52830	
CONNECTED LOAD - TOTAL AMPS		481		AMPS		468		453		440	
DEMAND LOAD - TOTAL KW		153		KW							
DEMAND LOAD - TOTAL AMPS		423		AMPS							

PANEL SCHEDULE NOTES:

- C CIRCUIT CONNECTED TO LIGHTING CONTACTOR
- GFCI CIRCUIT BREAKER
- IG ISOLATED GROUND CIRCUIT
- LO PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
- ST SHUNT TRIP CIRCUIT BREAKER



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(208) 331-9031 www.erstadarchitects.com

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PROTOTYPE T27-C-54 24608 - CONTEMPORARY STAR
1230 N. Division Street,
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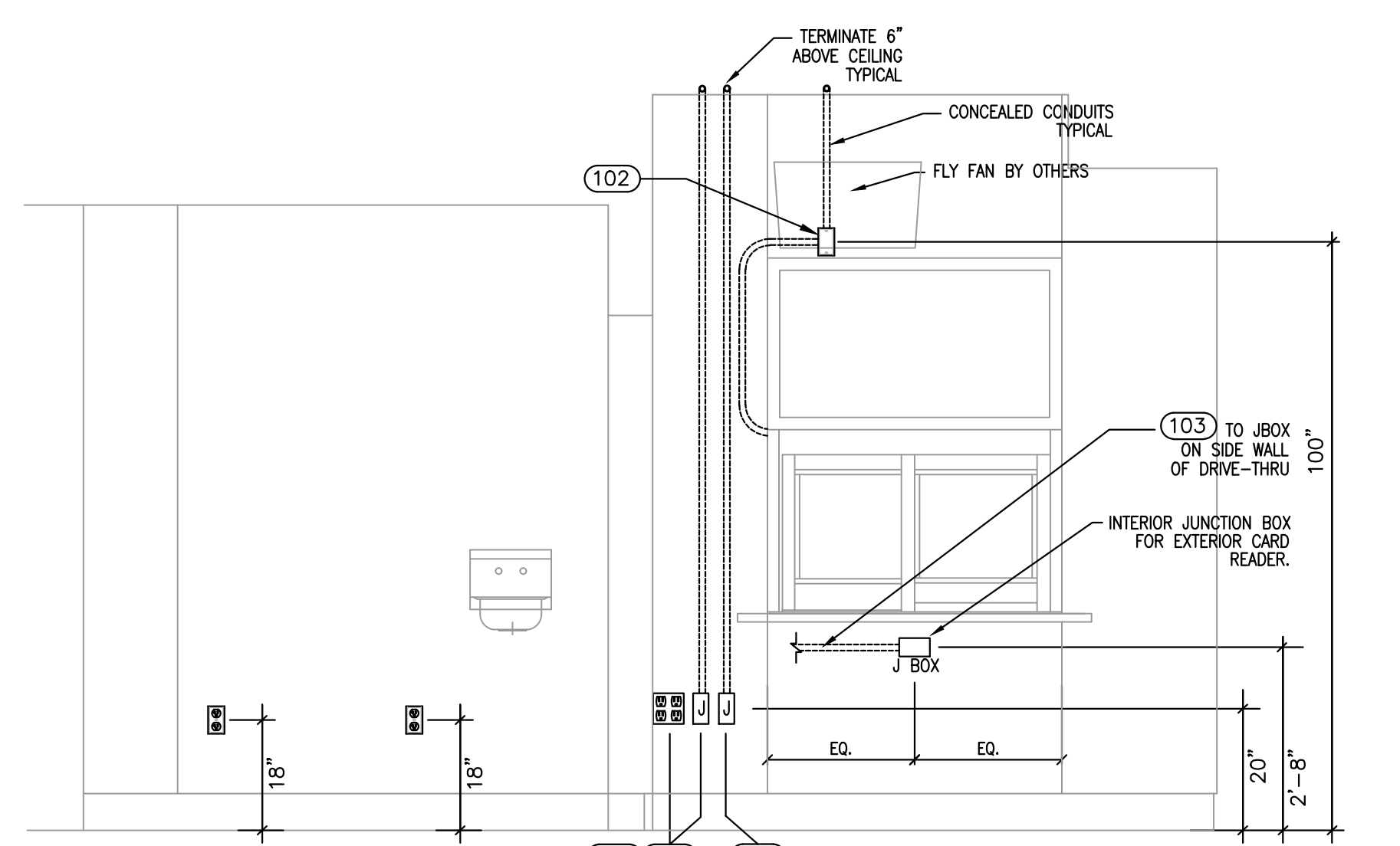
PROJECT: 151101
DATE: 06/10/16
DRAWN: kva
CHECKED: jvs

Permit Set

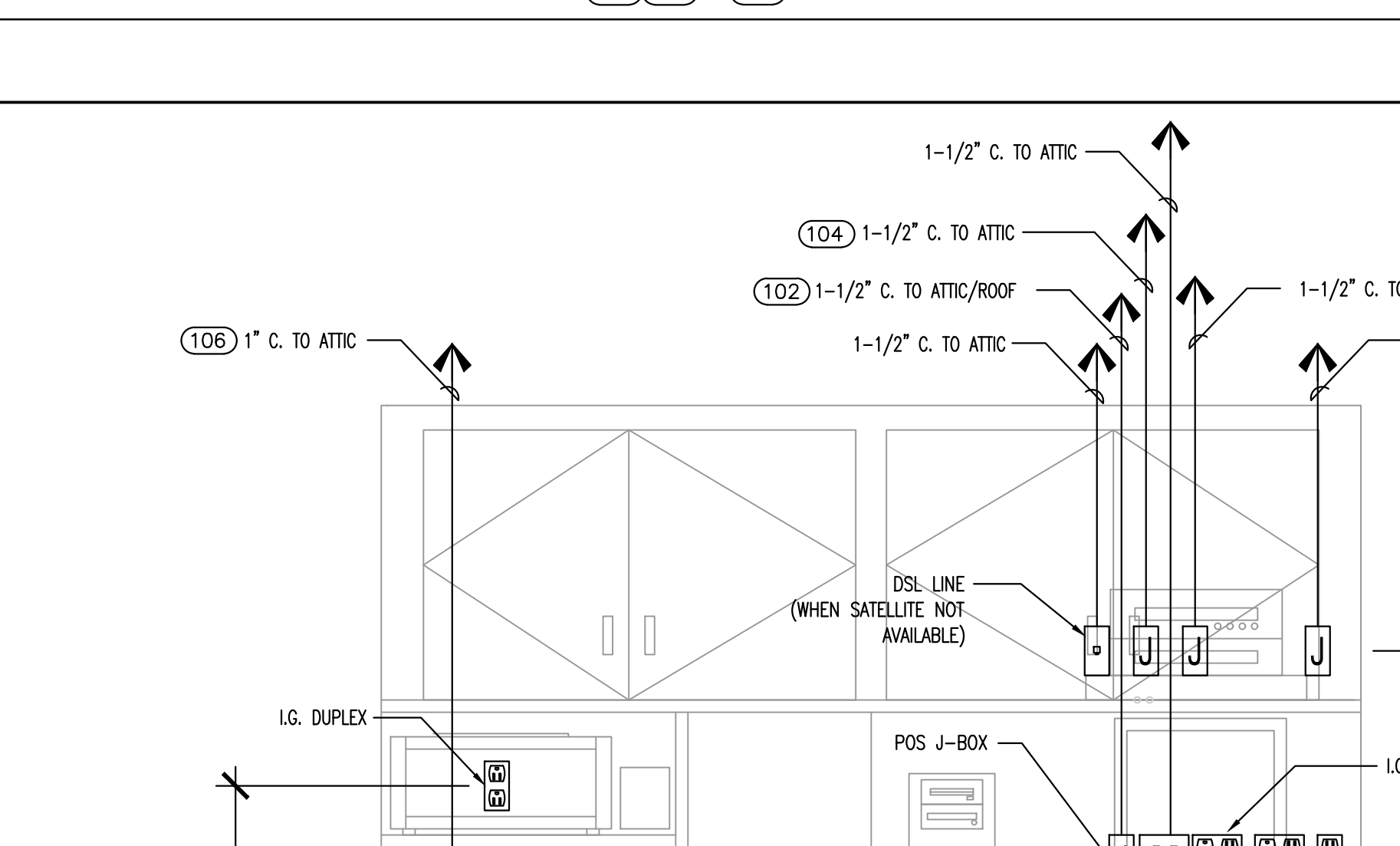
ELECTRICAL DETAILS AND SCHEDULES

E2.2

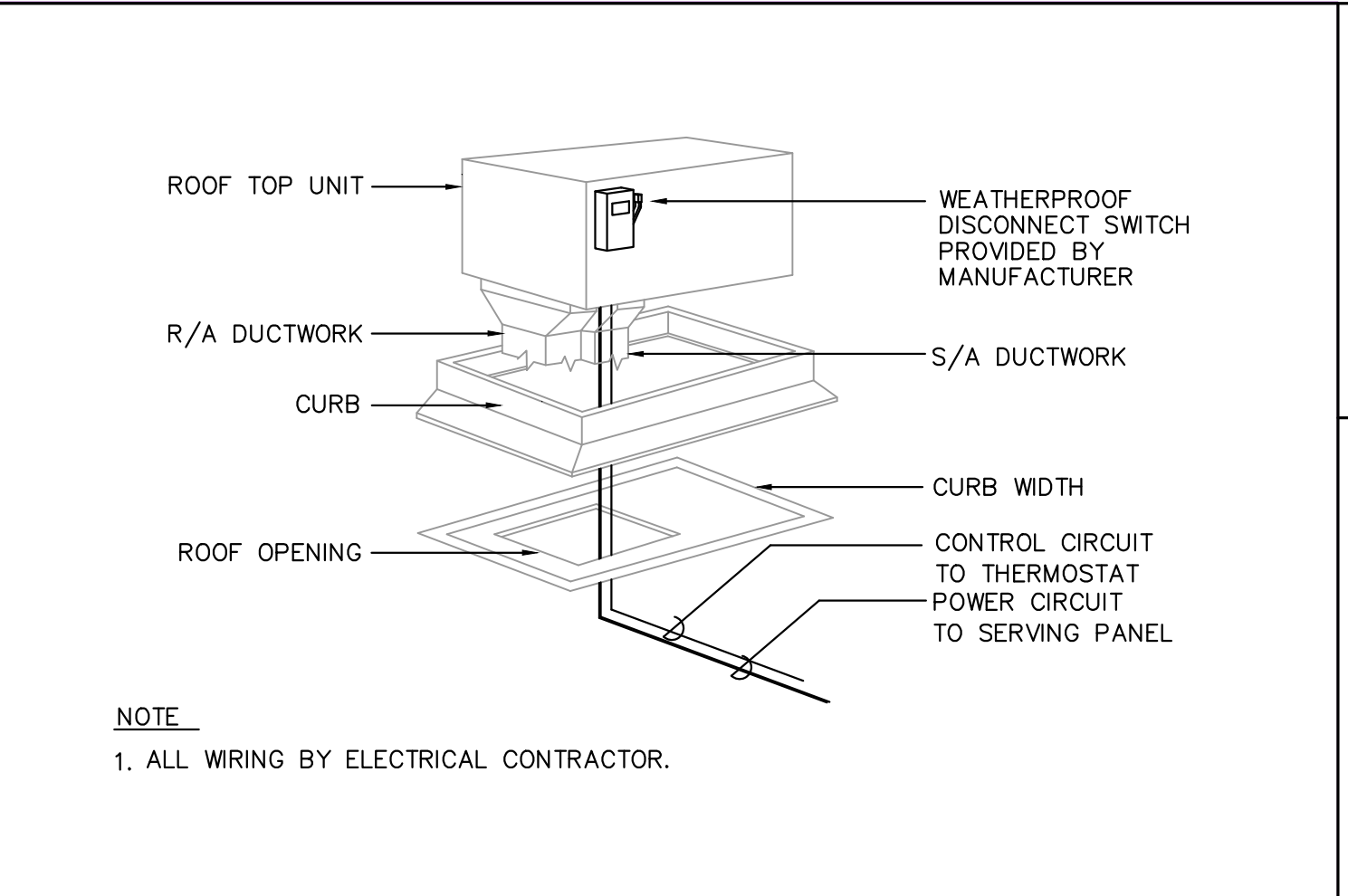
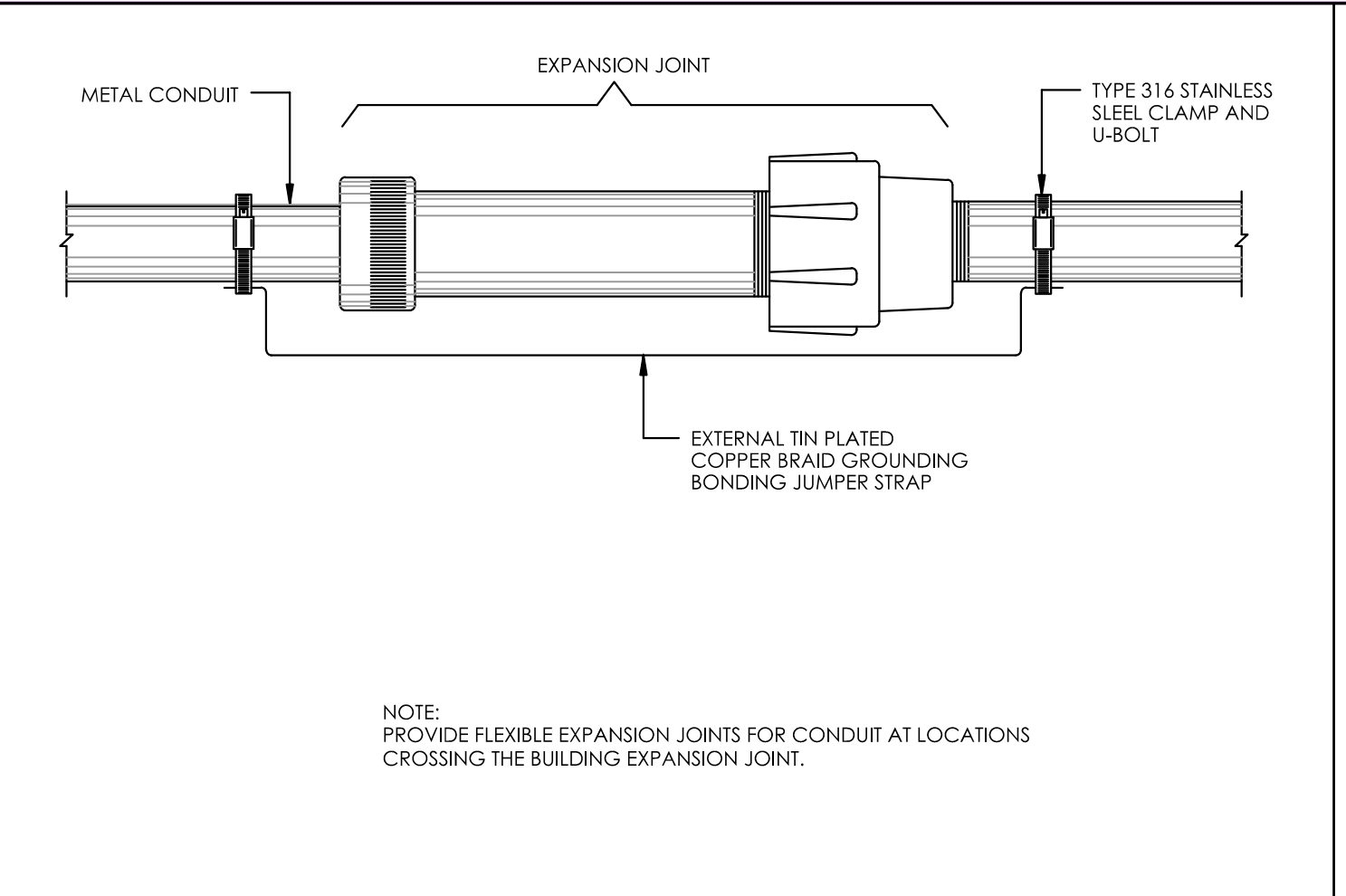
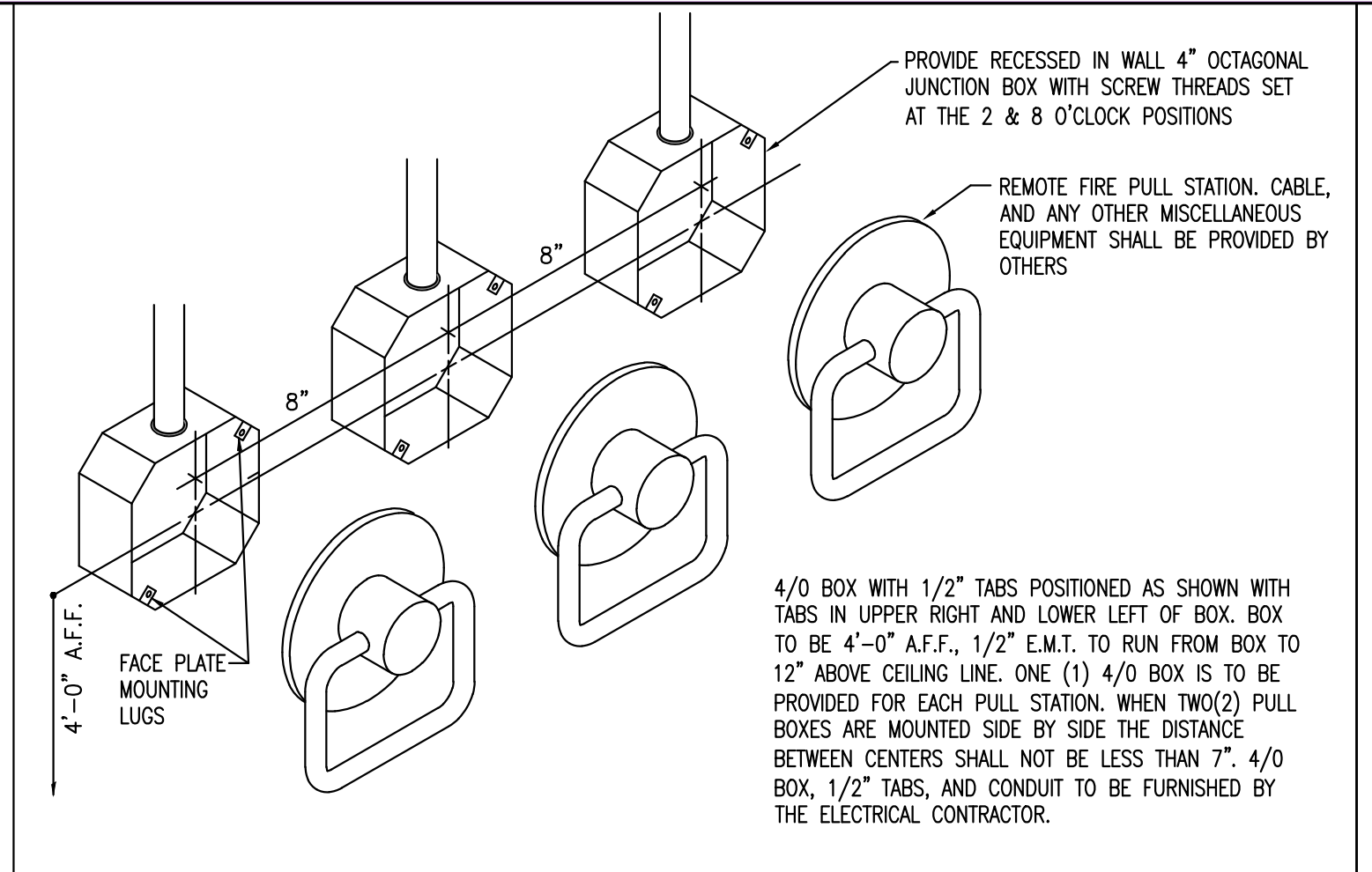
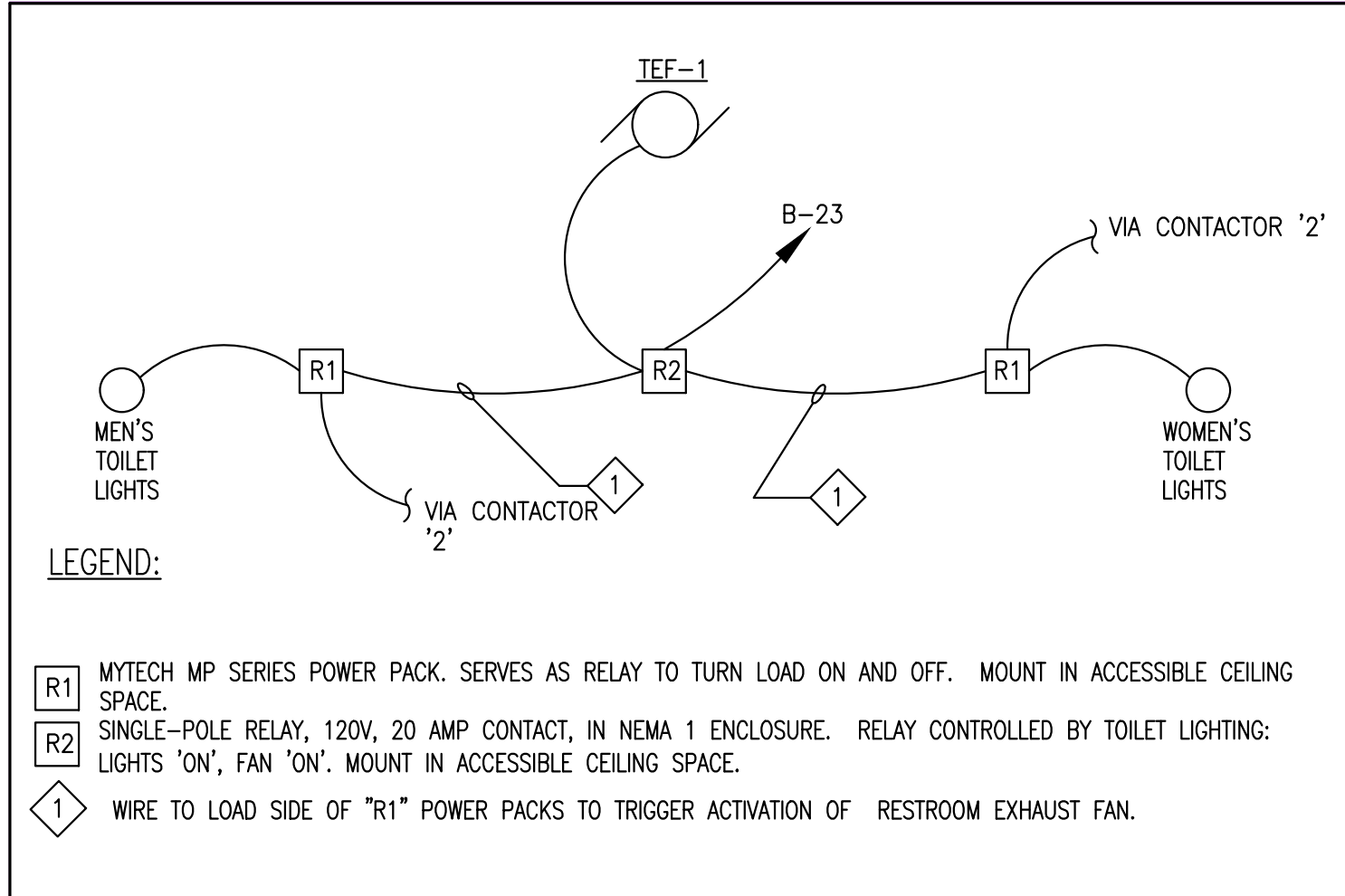
PANEL: A		PROJECT: CARL'S JR. SHARP & DIVISION				ENCLOSURE TYPE: NEMA 1, LOCKABLE						
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 100 AMPS		SC RATING: 65K AIC SERIES RATED				
ENTRY: TOP/BOTTOM		TYPE: M.L.O.		MOUNTING: SURFACE								
REMARKS: IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC												
NOTES	OKT NO.	DESCRIPTION	AMPS/POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (W)	LOAD W	LOAD W	AMPS/POLES	DESCRIPTION	OKT NO.
	1	WORK TABLE - 7	20	1	600	5.0	12	800	12	1.7	200	20
	3	SHAKE BLENDER - 28	20	1	1600	13.3	12	1980	12	3.0	360	20
	5	FULL SIZE REFRIGERATOR - 65	20	1	552	4.6	12	1308	12	6.9	756	20
	7	DRIVE THRU CHARGER - 33 CALI 109	20	1	600	5.0	12	2400	12	15.0	1800	20
	9	SBRY FRZER UNIT - 35	20	1	990	8.0	12	2160	12	10.0	1200	20
	11	SHUNT TRIP						300	12	2.5	300	20
	13	ROOF RECEPTACLES	20	1	540	4.5	12	3220	10	22.3	2880	30
	15	DRINK DISPENSOR - 40	20	1	800	2.5	12	300	12	10.0	1200	20
	17	ICE CREAM FREEZER - 49	20	1	800	6.7	12	2000	12	10.0	1200	20
	19	WATER HEATER WH41 - 84	20	1	200	1.7	12	1400	12	10.0	1200	20
	21	SHALABAR - 10	20	1	1000	13.3	12	2000	12	3.3	400	20
	23	MINI COOLER COOL TESTAT - 59	20	1	216	1.8	12	1716	12	15.0	1800	20
	25	MINI FRZS DRINK DISP - 54	20	1	700	5.8	12	1000	12	2.5	300	20
	27	BURG POWER OFF - 60	20	1	200	1.7	12	1600	12	11.7	1400	20
	29	TRASH ENCLOSURE RECEPT	20	1	800	3.0	12	1560	12	10.0	1200	20
	31	SPACE						180	12	1.5	180	20
	33	SPACE						1800	12	15.0	1800	20
	35	GAS VALVES	20	1	800	3.0	12	1960	12	13.3	1600	20
	37	SHUNT TRIP						1200	12	10.0	1200	20
	39	HOT HOLD FRZ DUMP BASBL - 51B	20	1	1650	13.8	12	2850	12	10.0	1200	20
	41	SHUNT TRIP						1200	12	10.0	1200	20
CONNECTED LOAD - TOTAL KW		39		KW		10000		12670		10044		
CONNECTED LOAD - TOTAL AMPS		91		AMPS		85		106		84		
DEMAND LOAD - TOTAL KW		29		KW								
DEMAND LOAD - TOTAL AMPS		81		AMPS								



PANEL: B		PROJECT: CARL'S JR. SHARP & DIVISION				ENCLOSURE TYPE: NEMA 1, LOCKABLE						
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 100 AMPS		SC RATING: 65K AIC SERIES RATED				
ENTRY: TOP/BOTTOM		TYPE: M.L.O.		MOUNTING: SURFACE								
REMARKS: IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC												
NOTES	OKT NO.	DESCRIPTION	AMPS/POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (W)	LOAD W	LOAD W	AMPS/POLES	DESCRIPTION	OKT NO.
	1	DINING LIGHTS (DAYLIGHT ZONE)	20	1	850	5.4	12	850	10	0.0	30	2
	3	MISC SYSTEM - 85	20	1	600	5.0	12	600	10	0.0	30	4
	5	MENU BOARD - 88	20	1	200	1.7	12	200	10	0.0	30	6
	7	OFFICE RECEPTACLES	20	1	360	3.0	12	960	12	5.0	600	20
	9	KITCHEN LIGHTING	20	1	576	4.8	12	776	12	1.7	200	20
	11	KITCHEN LIGHTING	20	1	960	8.0	12	1200	12	2.0	240	20
	C	FRIDGE/FREEZER COOLER LIGHTS	20	1	156	1.3	12	996	12	2.0	240	20
	15	FLY FAN - 120	20	1	600	5.0	12	840	12	2.0	240	20
	C	BEVERAGE LIGHTING	20	1	108	0.9	12	348	12	2.0	240	20
	C	DINING LIGHTS	20	1	360	3.0	12	451	12	1.7	200	20
	C	SHOW WINDOW RECEPTACLES	20	1	720	6.0	12	900	12	1.5	180	20
	C	RESTROOM/OFFICE LIGHTS	20	1	448	3.7	12	628	12	1.5	180	20
	C	PYLON SIGNAGE	20	1	1200	10.0	12	1380	12	1.5	180	20
	C	SHOW WINDOW RECEPTACLES	20	1	720	6.0	12	1920	12	10.0	1200	20
	C	DINING LIGHTS	20	1	960	8.0	12	2160	12	10.0	1200	20
	C	SITE LIGHTING	20	2	888	7.4	8	1089	12	1.7	200	20
	33	DRIVE THRU REC - 102	20	1	888	7.4	8	2689	12	15.0	1800	20
	35	DRIVE THRU REC - 102	20	1	640	4.5	12	2160	12	13.5	1600	20
	37	ALARM UNIT RECEPTACLE	20	1	180	1.5	12	1620	12	12.0	1440	20
	C	EXTERIOR LIGHTS	20	1	708	5.8	12	1108	12	3.3	408	20
	C	EXTERIOR LIGHTS	20	1	412	3.4	12	1132	12	6.0	720	20
CONNECTED LOAD - TOTAL KW		23		KW		6546		8831		7629		
CONNECTED LOAD - TOTAL AMPS		64		AMPS		55		74		65		
DEMAND LOAD - TOTAL KW		23		KW								
DEMAND LOAD - TOTAL AMPS		63		AMPS								



PANEL: M		PROJECT: CARL'S JR. SHARP & DIVISION				ENCLOSURE TYPE: NEMA 1, LOCKABLE					
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 225 AMPS		SC RATING: 65K AIC SERIES RATED			
ENTRY: TOP/BOTTOM		TYPE: M.L.O.		MOUNTING: SURFACE							
REMARKS: IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC											
*BREAKER 12 TO BE RED HANDLED WITH LOCKOUT CAPABILITIES											
OKT NO.	DESCRIPTION	AMPS/POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (W)	LOAD W	LOAD W	AMPS/POLES	DESCRIPTION	OKT NO.
1	RTU - 1	90	8892	74.1	4	10058	12	9.8	1176	20	1
3	RTU - 1	90	8892	74.1	4	9588	12	5.8	696	20	1
5	RTU - 1	90	8892	74.1	4	9588	12	5.8	696	20	1
7	RTU - 2	90	8892	74.1	4	10222	12	11.1	1391	20	2
9	RTU - 2	90	8892	74.1	4	10222	12	11.1	1391	20	10
11	RTU - 2	90	8892	74.1	4	9252	12	3.0	360	30	12
13	COOLER EVAPORATOR UNIT - 58B	20	2	120	1.0	12	2120	10	16.7	2000	30
15	COOLER EVAPORATOR UNIT - 58B	20	2	120	1.0	12	2120	10	16.7	2000	30
17	FRIDGE EVAPORATOR UNIT - 54B	20	2	120	1.0	12	2120	10	16.7	2000	30
19	FRIDGE EVAPORATOR UNIT - 54B	20	2	120	1.0	12	120	10	16.7	2000	30
21	FRIDGE DEFROST UNIT - 54D	20	2	904	7.5	12	2904	10	16.7	2000	30
23	FRIDGE DEFROST UNIT - 54										

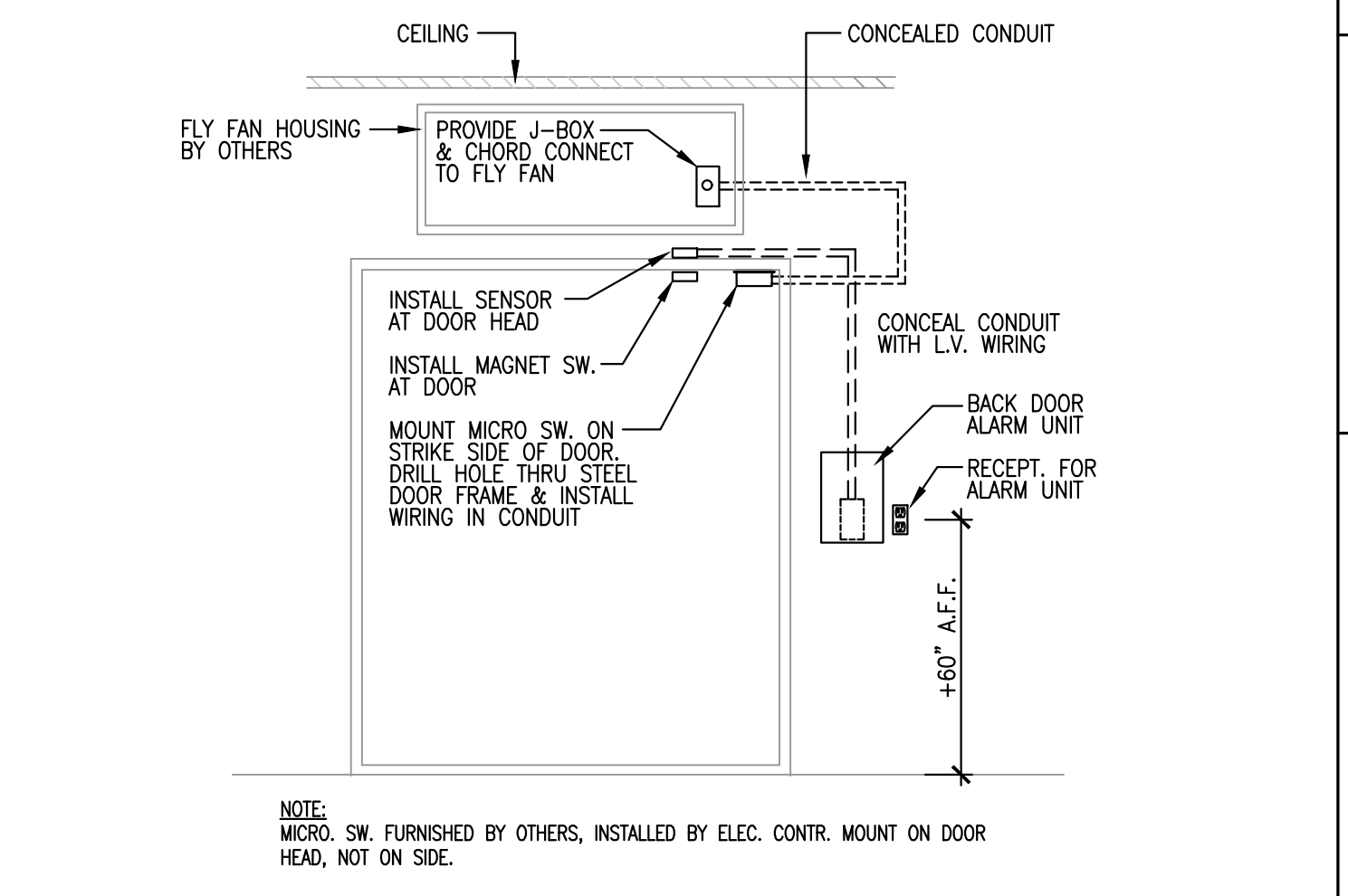
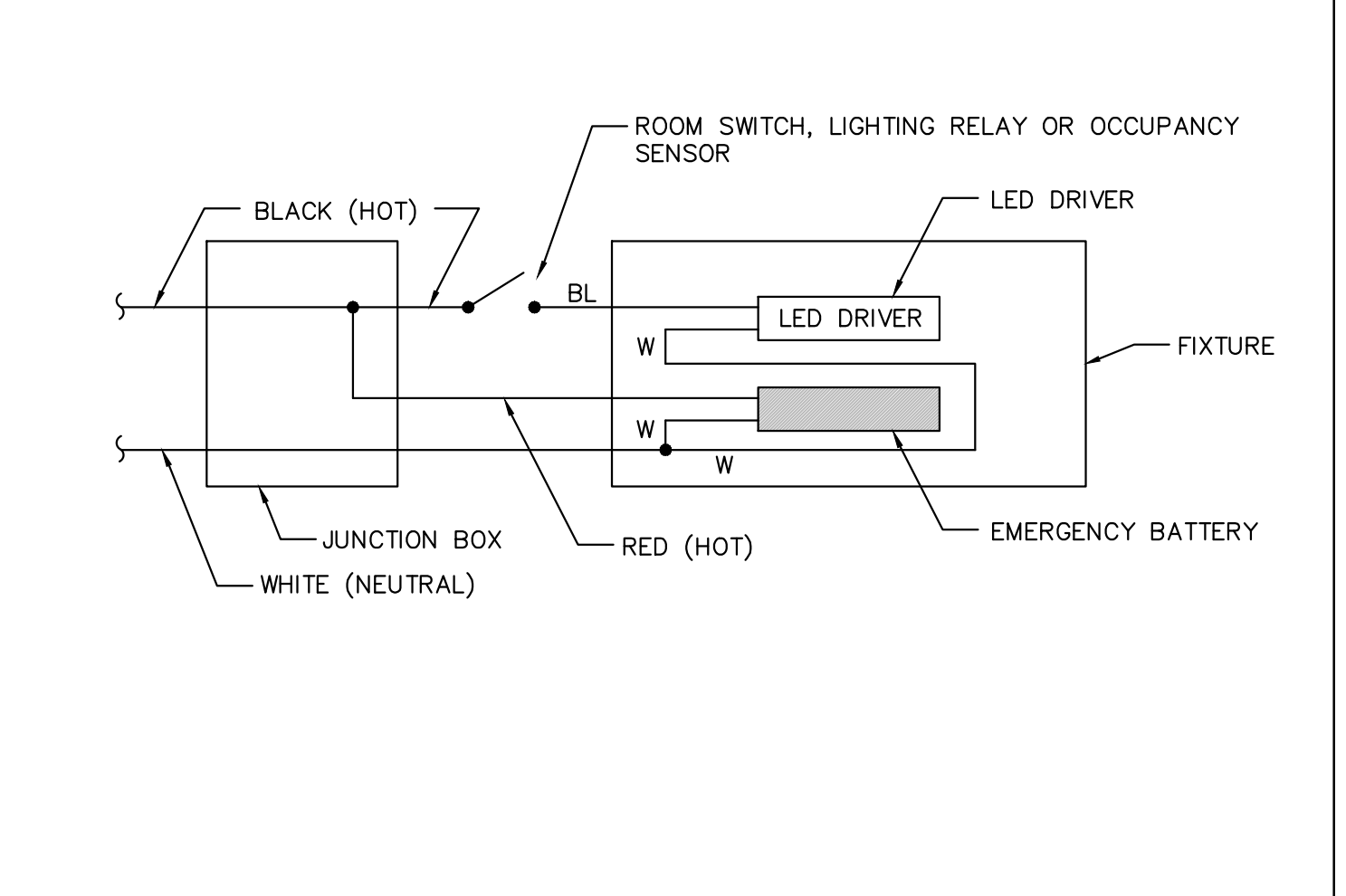
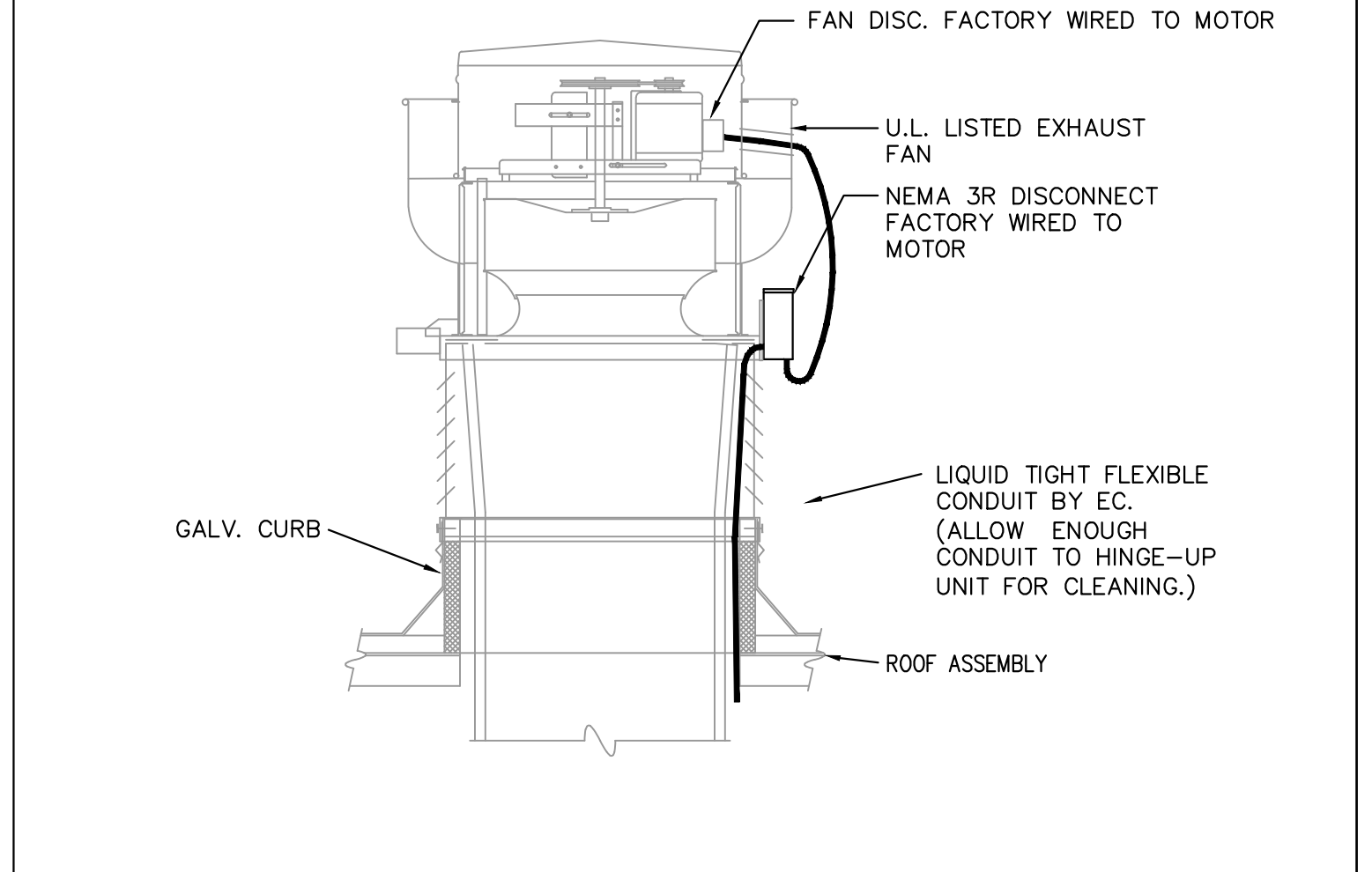
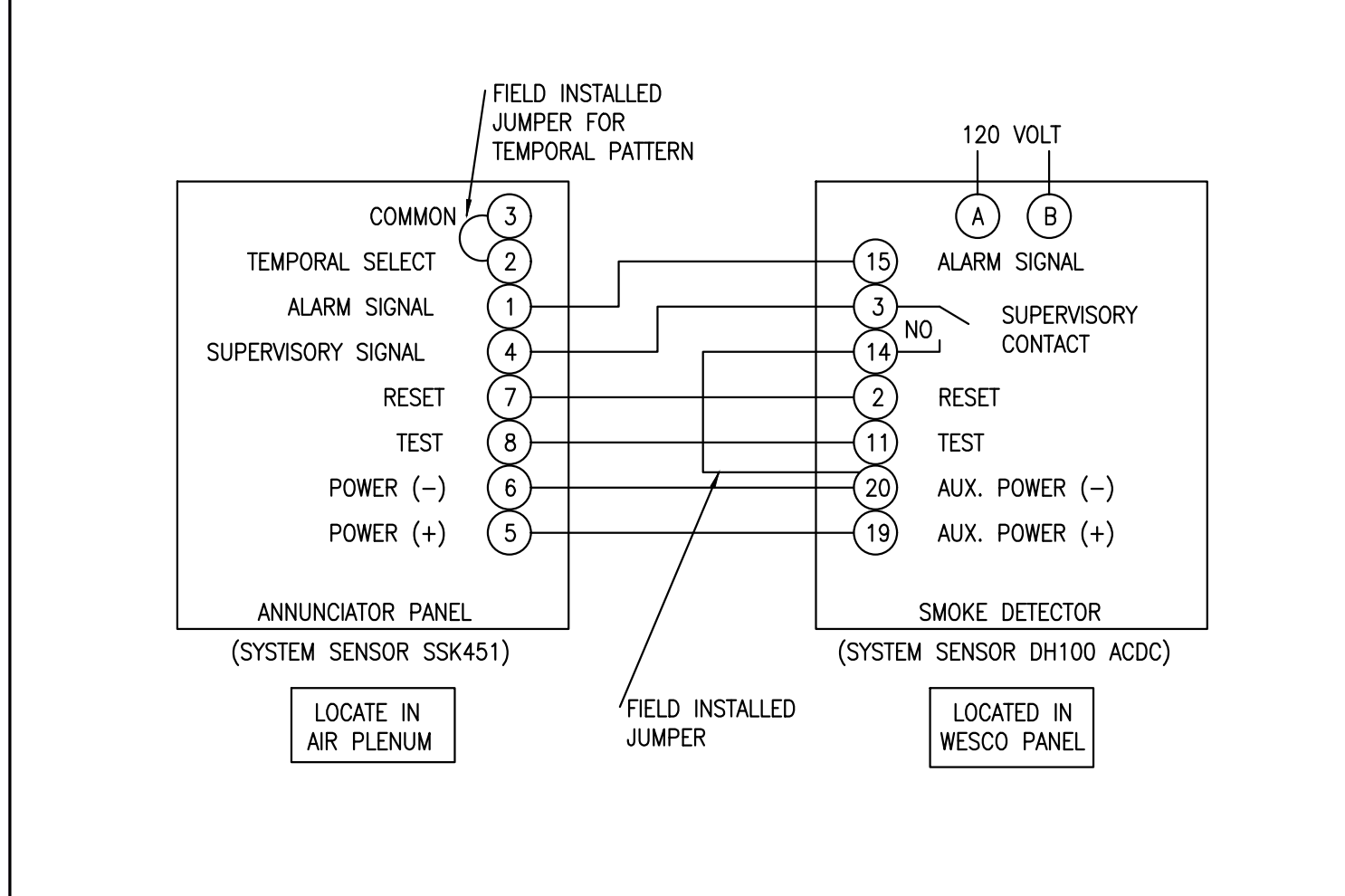


RESTROOM LIGHTING/EXHAUST FAN CONTROL DIAGRAM NOT TO SCALE 1

ANSUL PULL DETAIL ITEM #77 NOT TO SCALE 2

EXPANSION JOINT DETAIL NOT TO SCALE 3

ROOFTOP UNIT WIRING DIAGRAM NOT TO SCALE 4

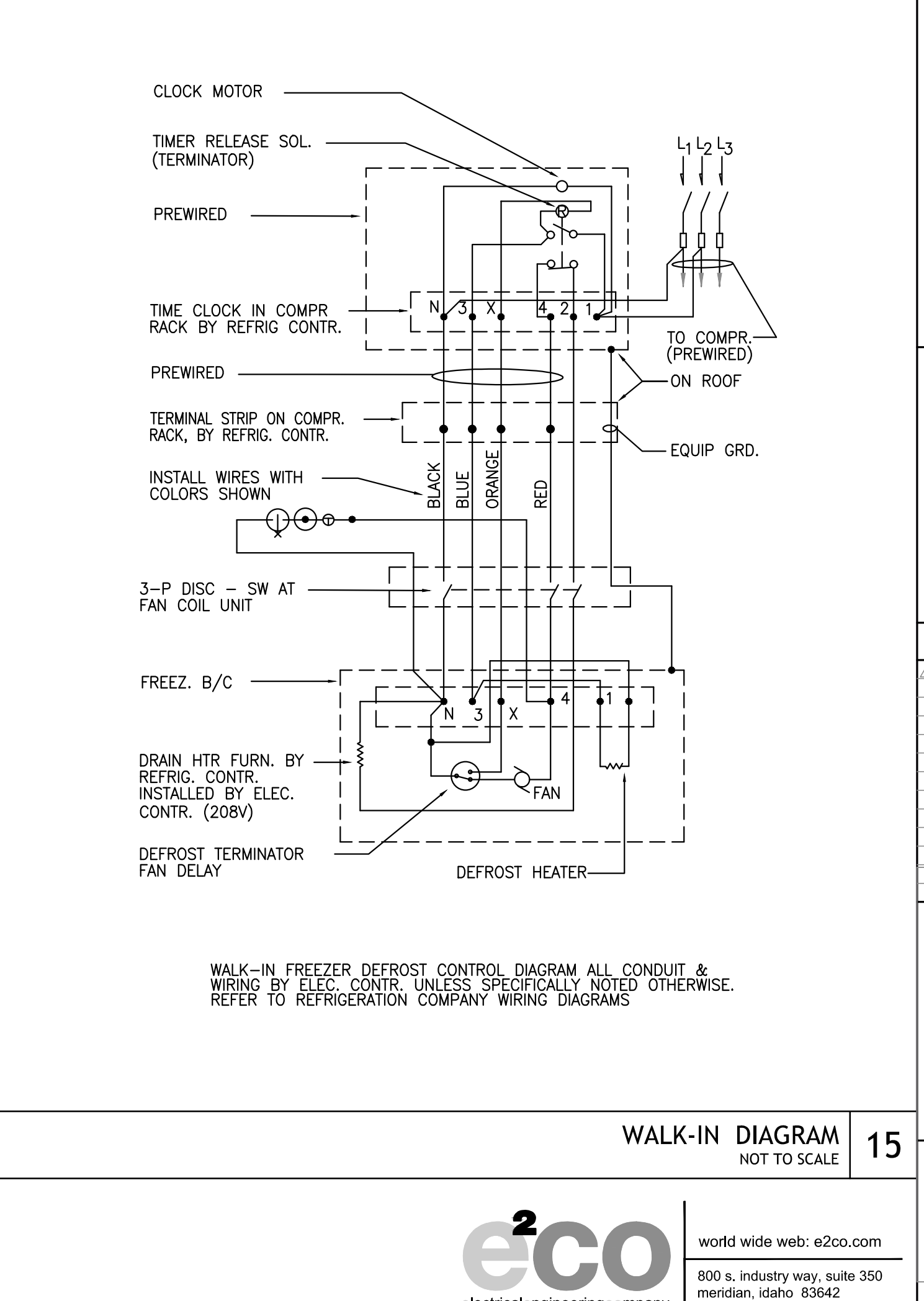
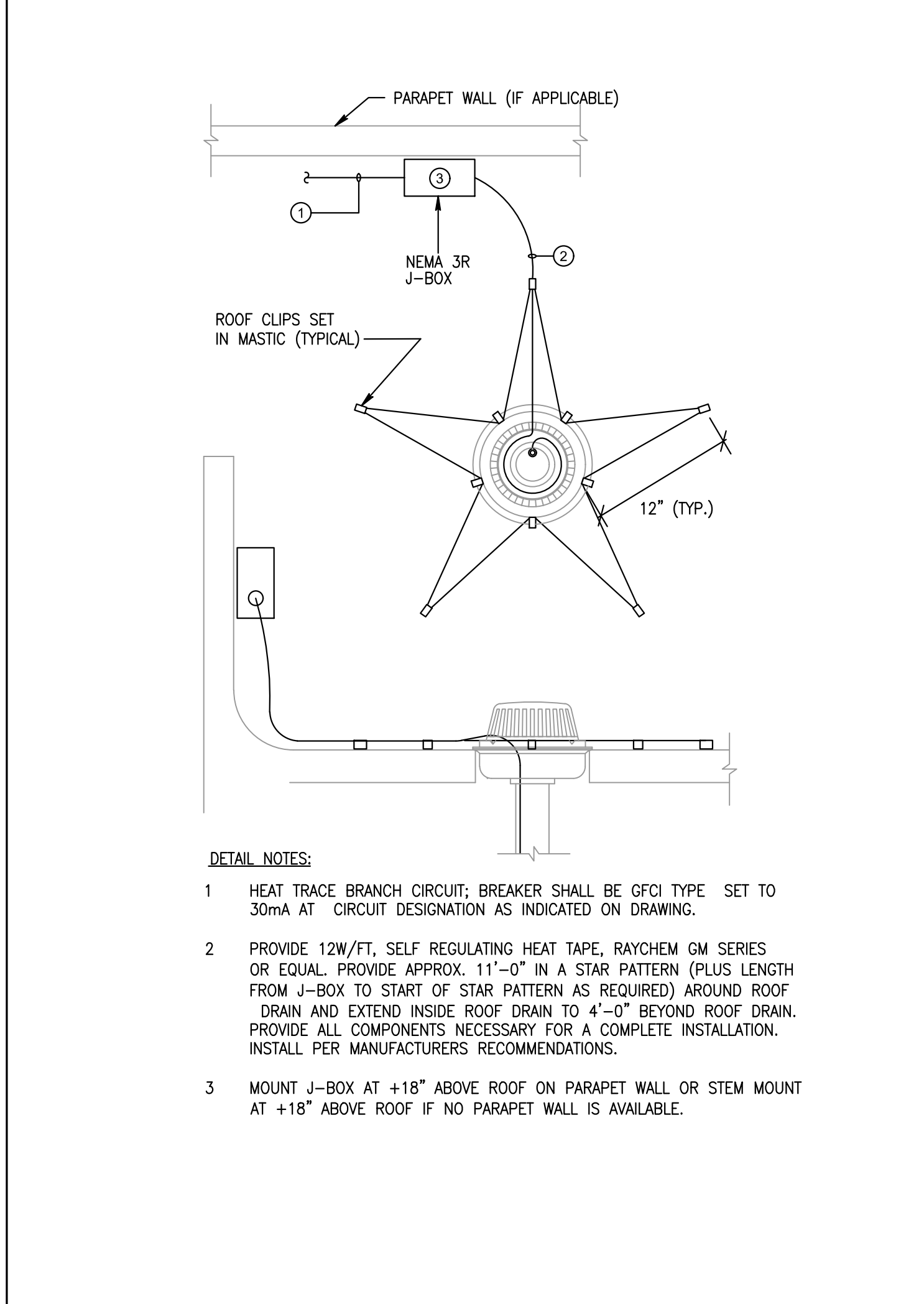


SMOKE DETECTOR WIRING DIAGRAM NOT TO SCALE 5

EXHAUST FAN ELECTRICAL CONNECTION DETAIL NOT TO SCALE 6

EMERGENCY LIGHTING WIRING DIAGRAM NOT TO SCALE 7

FLY FAN MOUNTING DETAIL SCALE: 1/4"=1'-0" 8



HEAT TRACE DETAIL NOT TO SCALE 9

NOT USED NOT TO SCALE 13

NOT USED NOT TO SCALE 14

WALK-IN DIAGRAM NOT TO SCALE 15

VOI W. VAN STONE
 REGISTERED PROFESSIONAL ENGINEER
 EXPRES 12/8/2016

erstad ARCHITECTS, P.A.
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Contemporary Star
 PROTOTYPE T27-C-54 24608 - CONTEMPORARY STAR
 1230 N. Division Street
 Spokane, WA 99202

PROJECT: 151101
 DATE: 06/10/16
 DRAWN: kwa
 CHECKED: jvs

Permit Set

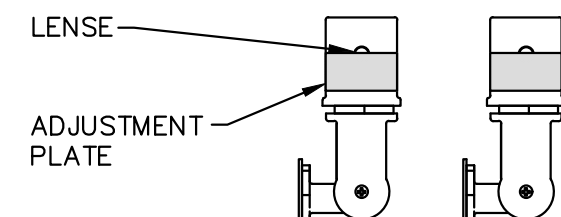
DATE	DESCRIPTION

SHEET TITLE: **ELECTRICAL DETAILS**

eco
 electrical engineering company
 engineering 4 tomorrow

world wide web: e2co.com
 800 s. industry way, suite 350
 meridian, idaho 83642
 phone: 208.378.4450
 fax: 208.378.4451
 e2co project #: 18060

E2.3



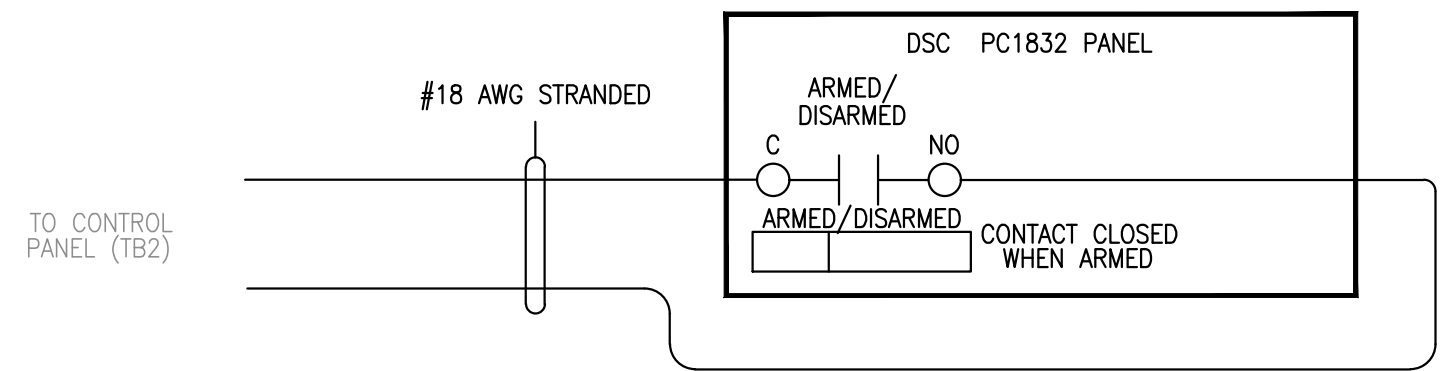
MAKE SURE THAT THERE ARE NO BRIGHT LIGHTS SHINING DIRECTLY ON PHOTOCELL. IF OTHER LIGHTING AFFECTS PHOTOCELL OPERATION SLIDE ADJUSTMENT PLATE OVER LENSE FOR BETTER OPERATION. PHOTOCELL TO FACE NORTH

PHOTOCELL ADJUSTMENT PLATE

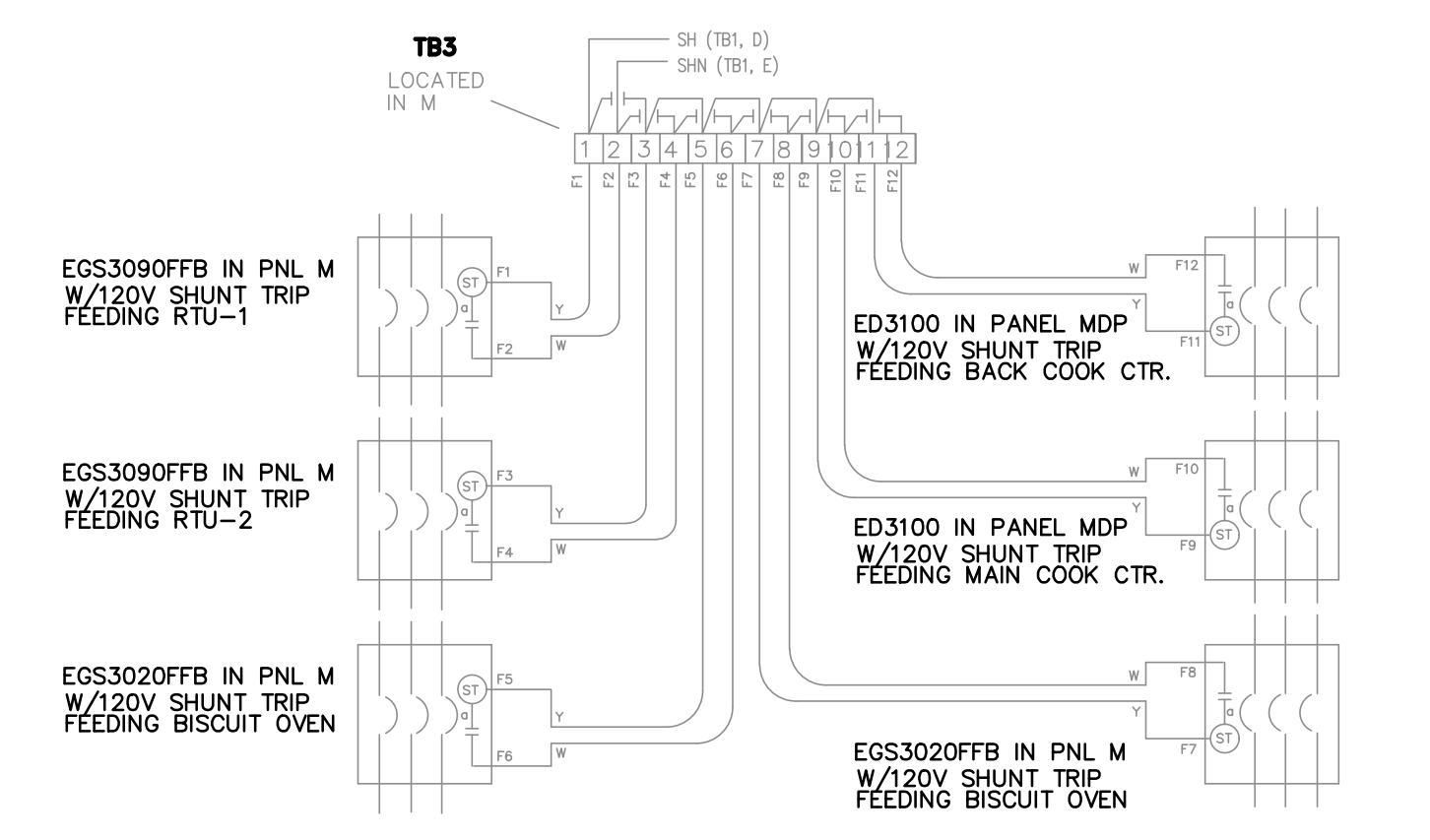
WEATHERPROOF J-BOX SUPPLIED BY E.C. FOR FIELD WIRING OF PHOTOCELL

PHOTOCELL INSTALLATION NOT TO SCALE 1

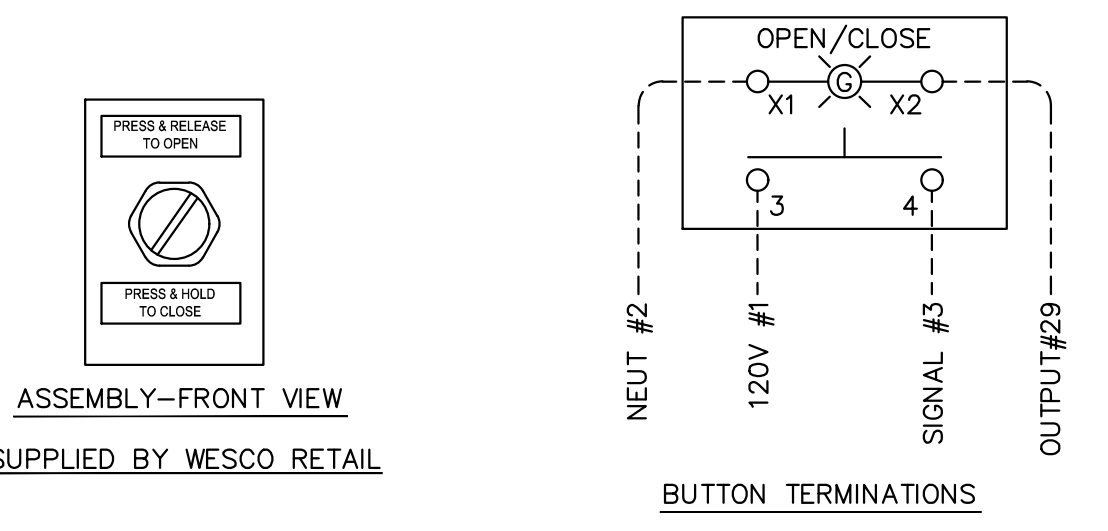
- DIRECTIONS FOR ALARM INSTALLER**
- SUPPLY AND INSTALL ONE (1) DSC RM-1 RELAY USING THE ARMED/DISARMED CIRCUIT.
 - WIRE FROM IFS CONTROL PANEL (TB2)
 - FROM RM-1 RELAY, CIRCUIT IS COMPLETED DURING "DISARMED CONDITION"
 - TEST CIRCUIT BY DISCONNECTING ONE WIRE. THIS SHOULD CAUSE LIGHTS AND EQUIPMENT TO TURN OFF.



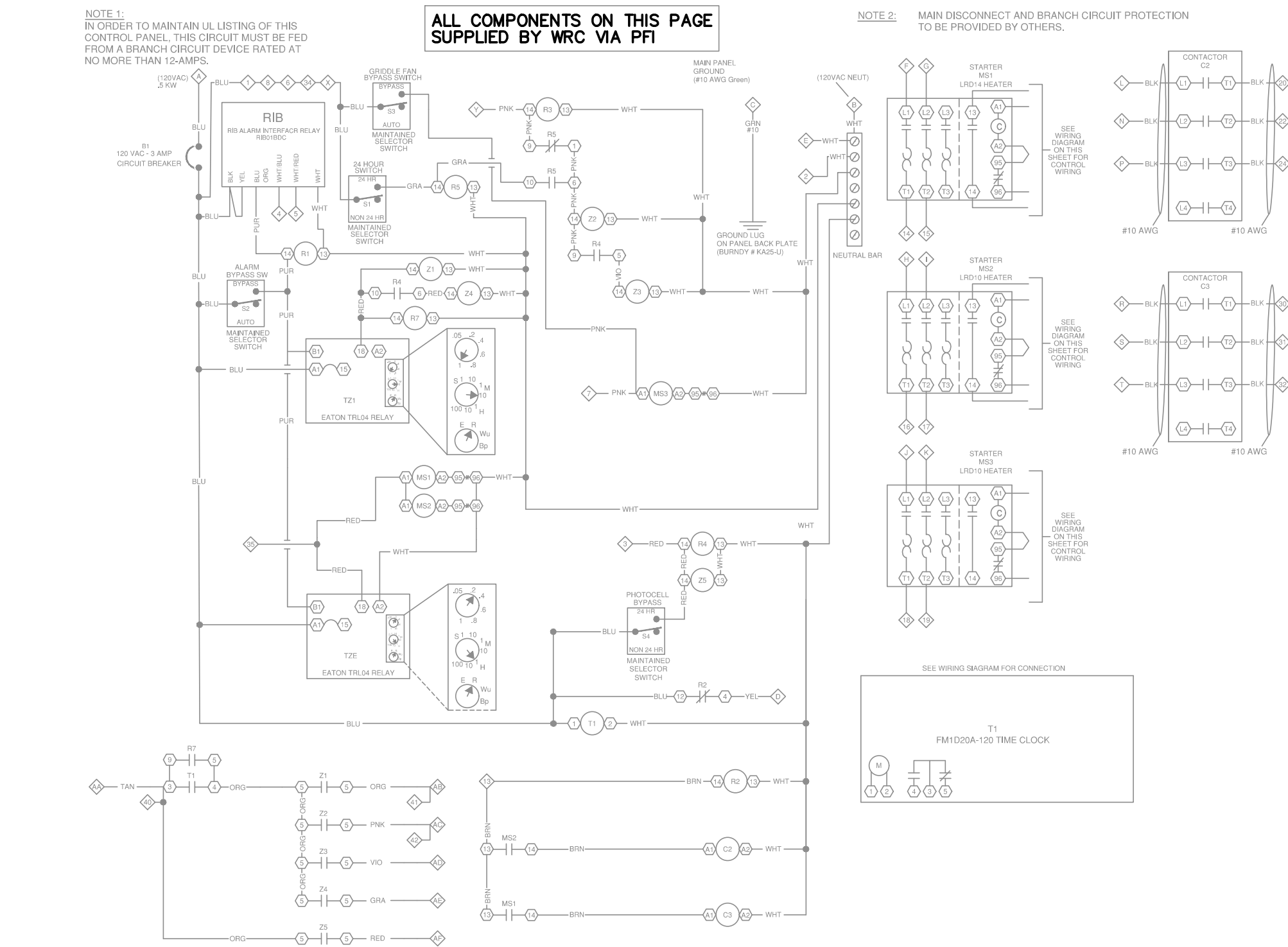
ALARM INTERFACE REQUIREMENTS NOT TO SCALE 2



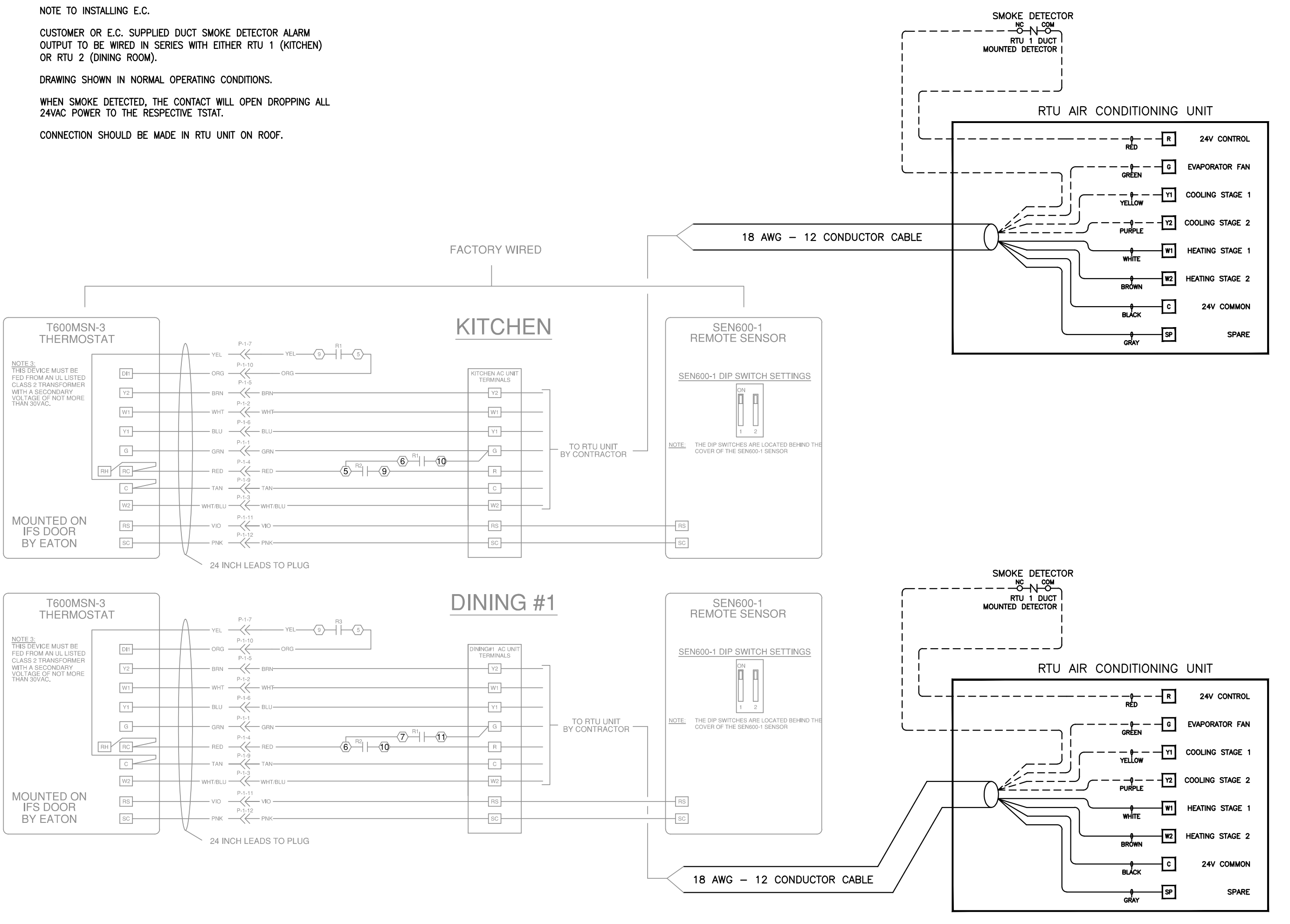
EPO & SHUNT TRIP DETAILS (REFERENCE ONLY) NOT TO SCALE 5



STORE OPEN/CLOSE PUSHBUTTON (REFERENCE ONLY) NOT TO SCALE 6

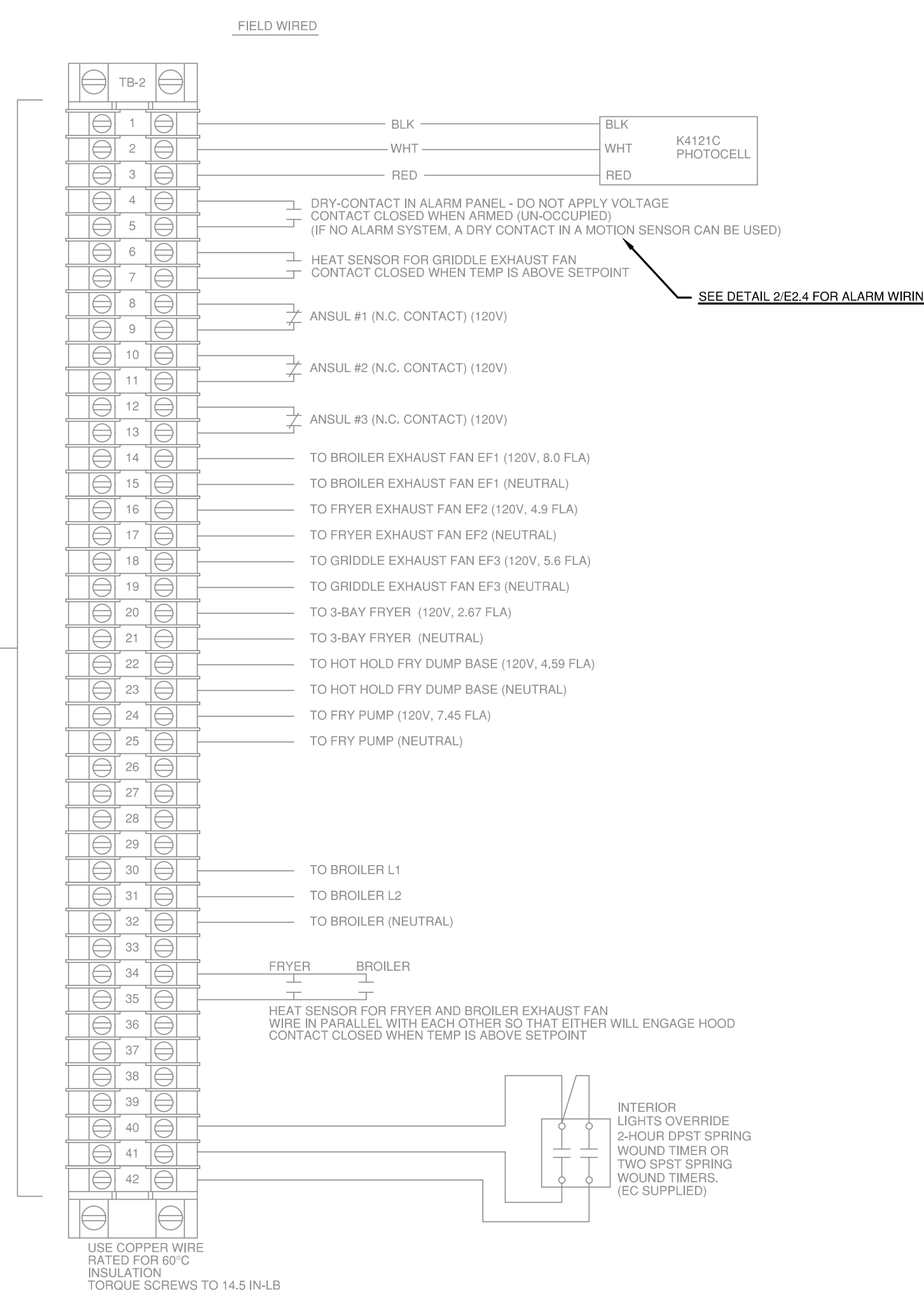


FAN AND KIT. EQUIPMENT FACTORY WIRING (REFERENCE ONLY) NOT TO SCALE 3



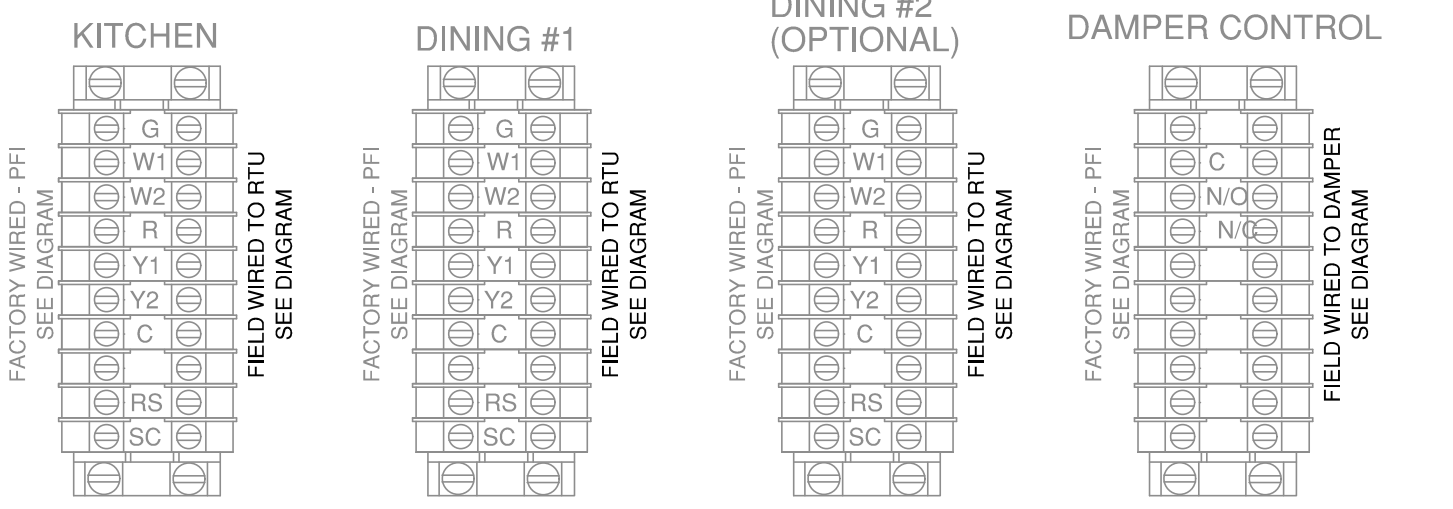
TYPICAL HVAC WIRING DIAGRAM NOT TO SCALE 7

FACTORY WIRED - PFI CONTROLS SEE DIAGRAM

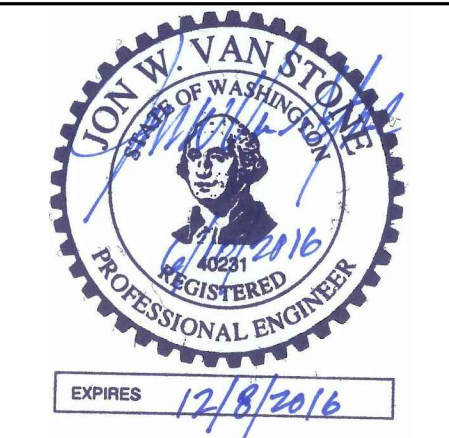


FIELD WIRING DIAGRAM NOT TO SCALE 4

BARRIER LV TERMINAL STRIPS FROM HV - BY PFI



RTU TO CONTROL PANEL WIRING DETAILS NOT TO SCALE 8



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PROJECT: 151101
DATE: 06/10/16
DRAWN: kwa
CHECKED: jvs

Permit Set

DATE	DESCRIPTION

SHEET TITLE: **ELECTRICAL DETAILS**

SHEET NUMBER: **E2.4**

LEVEL 1 SYSTEM FIELD CONNECTIONS (EVENT DRIVEN)