



NOTE:
 COORDINATE WITH EQUIPMENT SCHEDULE, KROGER P.M. & EQUIPMENT PROVIDER FOR SPECIAL BREAKER & CONNECTION TYPES PRIOR TO BID & ROUGH-IN.

ALL 120V, SINGLE PHASE 15 AMP AND 20 AMP RATED RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED IN SCHEDULE 210-B (02/1) - (03) SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.

NOTE THAT THE ISOLATED GROUNDING TYPE RECEPTACLES AND CLOCK TYPE RECEPTACLES LOCATED IN THE KITCHEN/SERVING AREA SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE THESE RECEPTACLES ARE NOT AVAILABLE AS GROUND-FAULT TYPE RECEPTACLES (GFCI) BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.

IC SHALL VERIFY IN FIELD ALL EQUIPMENT CONNECTIONS AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION OF DEVICES. VERIFY ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH KROGER P.M. IC SHALL MAKE ADJUSTMENTS IN FIELD TO MATCH ACTUAL EQUIPMENT BEING INSTALLED, AS DIRECTED BY THE EQUIPMENT INSTALLER.

CONTRACTOR IS REQUIRED TO INSTALL STANDARD RECEPTACLES FOR CIRCUITS DEDICATED TO SPECIFIC EQUIPMENT, SUBJECT TO THE APPROVAL OF CODE ENFORCING AGENCY.

KEY PLAN

① PARTIAL PLAN POWER 1/4" = 1'-0"

GENERAL NOTES

- REFER TO SHEET E0.1 FOR ELECTRICAL SYMBOL LEGENDS AND GENERAL NOTES. REFER TO SHEET E0.2 FOR ELECTRICAL DIMENSION INFORMATION. REFER TO SHEETS E0.3 FOR PANEL BOARD CIRCUIT BREAKERS. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALLATION. VERIFY ALL REFRIGERATION SYSTEM NUMBERS, CASE MODEL NUMBERS, AND SLIP UP LOCATIONS SHOWN ON THIS DRAWING WITH REFRIGERATION INSTALLATION INSTRUCTIONS AND DRAWINGS.
- PROVIDE ALL CONDUIT/RACEWAY AND CONDUCTORS AS INDICATED ON DRAWINGS/SCHEDULES NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH PANEL BOARD CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER. CONDUIT SHALL BE ROUTED WITH REFRIGERATION PIPING WHEREVER PRACTICABLE. PROVIDE UP TO 6" OF FLEXIBLE CONDUIT AT FLOOR CASES FOR FAN, CONDUIT WITH TROUGH BACK TO ALLOW FOR CASE LOCATION TO SHIFT SLIGHTLY.
- KEEP PENETRATIONS THROUGH COOLER AND FREEZER BOXES TO A MINIMUM AND SURFACE MOUNTED CONDUITS ARE ALLOWED IN THE INSIDE OF THE COOLER FREEZER OR FREEZING AREA INSTALLED WALLS. ROUTE ALL CONDUITS/RACEWAYS SERVING FREEZERS AND COOLERS ON THE OUTSIDE OF THE INSULATED BOX WHERE PRACTICABLE. SEAL ALL PENETRATIONS THROUGH BOX WITH SILICON SEALANT AND TIGHT FITTINGS/SEAL GITS WITH EXPANDING FOAM SEALANT.
- PROVIDE ALL CHANNEL-SUPPORT SUPPORTS FOR OVERHEAD REFRIGERATION PIPING WHERE REQUIRED. COORDINATE EXACT QUANTITIES, LOCATIONS AND REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
- PROVIDE REFRIGERATION CONTROL WIRING AND ALL CONDUITS AS DIRECTED BY THE REFRIGERATION CONTRACTOR FOR PROTECTION OF REFRIGERATED CASES.
- PROVIDE REFRIGERATION CONTROL WIRING RELATED CIRCUITS AS DIRECTED BY THE REFRIGERATION CONTRACTOR. PROVIDE EACH CASE/COOL WITH ELECTRIC DEFROST CIRCUIT WITH 200V DEFROST CONTROL.
- REPLACE EXISTING REFRIGERATION CONTROL WIRING AND RELATED CONDUITS AS DIRECTED BY THE REFRIGERATION CONTRACTOR/VENDOR FROM EACH CASE/COOL TO REFRIGERATION RACK FOR SUCTION VALVES.
- PROVIDE ALL CASE FANS, ANTI-SWEAT HEATERS, CASE LIGHTING, ELECTRICAL AND LINE VOLTAGE CONTROL WIRING TO ALL CASES ON SYSTEM AS REQUIRED AND DIRECTED BY REFRIGERATION CONTRACTOR. REMOVE REFRIGERATED CASE FANS (CF), LIGHTS (AS) AND ELECTRICAL DEFROST (FD) UNLESS TO BE REINSTALLED. PROVIDE DEDICATED WIRING FOR EACH CIRCUIT AS NOTED TO BE REINSTALLED OR APPLICABLE. NO ALL-WIRE BRANCH BUSSES/TERMINATION CABINETS. PROVIDE DEDICATED WIRING FOR EACH CIRCUIT AS NOTED TO BE REINSTALLED OR APPLICABLE. NO ALL-WIRE BRANCH CIRCUITS ALLOWED UNLESS NOTED OTHERWISE. REFER TO REFRIGERATION VENDOR BUSSBAR AND REFRIGERATION SCHEDULES AND LEGENDS FOR ADDITIONAL INFORMATION.
- FOR DEFROST CIRCUITS CONNECTED TO MULTIPLE CASES, PROVIDE FUSES INSTALLED AT EACH CASE CONNECTION POINT TO PROTECT THE INTERNAL CASE DEFROST WIRING. VERIFY CASE WITH MINIMUM OVER-CURRENT PROTECTION (MOP) LISTED ON CASE FOR ELECTRIC DEFROST CIRCUIT.
- ROUTE ALL DEFROST CIRCUITS BACK TO REFRIGERATION DEFROST PANEL BOARD.
- REFERENCE FOR NOTES AFTER CIRCUIT NUMBER AND DEFROST WIRING/CONDUIT: (N) - PROVIDE NEW CONDUIT AND WIRE BACK TO RESPECTIVE PANEL BOARD OR DEFROST CABINET. (R) - REUSE/EXTEND CONDUIT AND WIRE TO LOCATION SHOWN. REUSE AND EXTEND EXISTING CONDUIT AND WIRE ONLY IF IN GOOD CONDITION AND NEW WIRE CRITERIA CAN BE MET OTHERWISE REPLACE.
- PLANS ONLY SHOW CONNECTION TO ONE CASE FOR EACH REFRIGERATION SYSTEM. CONTRACTOR RESPONSIBLE FOR ALL OTHER CASES IN REFRIGERATION SYSTEM TO SHOWN CONNECTION.
- VERIFY ALL CIRCUIT NUMBERS SHOWN FOR ACCURACY PRIOR TO EXTENDING OR REUSE.
- INSTALL MOTION SENSORS ON FROZEN FOOD AISLE CASES IN ACCORDANCE WITH OWNER'S REQUIREMENTS (SCHEDULES FURNISHED BY OWNER).
- CONCEAL RACEWAY AND RELATED ELECTRICAL DIVERTS FROM CUSTOMER VIEW AND ROUTE ADJACENT TO REFRIGERATION LINES WHEREVER PRACTICABLE. CONTRACTOR IS ALLOWED TO REUSE ANY EXISTING CONDUITS FOR REFRIGERATED CASES THAT ARE LISTED IN SCHEDULES AND WIRING IN GOOD CONDITION. CONTRACTOR TO VERIFY ALL CONDUITS INSIDE OF CONDUIT DOES NOT EXCEED FILL REQUIREMENTS. (NEC OR DATA CATALOG) AND IF NECESSARY CONDUCTORS ARE PROTECTED BY RACEWAY OR MULTIPLE CONDUCTORS IN A CONDUIT PER NEC.
- ALL 15A-20A BRANCH CIRCUIT CONDUCTORS AND RACEWAY SHALL NOT BE LESS THAN THE SIZES LISTED BELOW. REFER TO PLANS AND PANEL BOARD SCHEDULES FOR MORE INFORMATION ON UPSIZED CONDUCTORS AND BRANCH CIRCUITS LARGER THAN 30A.
 - 15A AND 20A SINGLE PHASE CIRCUITS: (02)12, (1)1/2, 3/4 C
 - 30A SINGLE PHASE CIRCUITS: (02)10, (1)1/2, 1/2 C
 - 15A AND 20A THREE-PHASE CIRCUITS: (02)12, (1)1/2, 3/4 C
 - 30A THREE-PHASE CIRCUITS: (02)10, (1)1/2, 3/4 C

KEYED NOTES

- PROVIDE OVERHEAD COORD DROP WITH DUPLEX RECEPTACLE. MOUNT JUNCTION BOX ABOVE CEILING OR AT BAR JOIST AT LOCATION WITH NO FINISHED CEILING (SALES AREA). THESE BOXES TO BE 6" OF ABOVE FINISHED FLOOR. WHITE COLOR AT LOCATIONS WHEN VISIBLE TO PUBLIC AND BLACK COLOR OTHER AREAS. COORDINATE LOCATION WITH KROGER PROJECT MANAGER.
 - MINI RACKS FOR BELL CONNECT DATA AS REQUIRED PER KROGER CONSTRUCTION SUPERVISOR. EACH LOCATION SERVICES (2) IYS.
 - EXTEND 3/4" CONDUIT WITH CASE CABLE FROM SCALES OR TERMINAL TO A LOCATION AS DETERMINED BY KROGER PROJECT MANAGER. FOR REMOTE SCALES, SET JUNCTION BOX IN CASEWORK AS DIRECTED TO CONNECT DATA CABLE TO SCALE. SEE SCHEDULE ON E0.2 FOR ADDITIONAL REQUIREMENTS.
 - RELOCATED EQUIPMENT, FIELD VERIFY EXISTING CIRCUIT AND CONNECTION TYPE USED PRIOR TO RELOCATION. PROVIDE NEW CONDUITS AND CONNECTION IN NEW EQUIPMENT LOCATION. RECONNECT TO EXISTING CIRCUIT USED.
 - BOX MOUNTED 81"-6" ATT. CONNECT CASE TO LIG CIRCUIT. ROUTE CASE LIGHTING THRU KROGER LIGHTING CONTROLS.
 - PROVIDE OVERHEAD LIQUID-TITE DROP WITH WEATHER PROOF SOUL. PROVIDE SEPARATE CHAPS FOR EACH CIRCUIT. SIZE CONDUIT PER NEC AS REQUIRED. MOUNT JUNCTION BOX ABOVE CEILING OR AT BAR JOIST AT LOCATION WITH NO FINISHED CEILING (SALES AREA).
 - FIT SHALL INSTALL HOLLOW TUBE-STEEL "TILE-POWER" POLE, WHICH WILL BE FURNISHED BY CHECKOUT CASEWORK VENDOR TO BE USED AS A GALLEY/RACEWAY CHASE. NOTE THAT THE POLE IS NOT A UL LISTED/LABELED RACEWAY. USE KROGER FURNISHED MATERIALS TO ANCHOR AT TOP OF CEILINGLINE (OPEN ON TWO SIDES FOR USE OF CABLES/RACEWAYS). ANCHOR IN OVERHEAD JOIST SPACE WITH UNSTIFF OR OTHER NEATLY INSTALLED METHOD AS DETERMINED IN FIELD. TRANSITION TO FLEXIBLE STEEL CONDUIT WITH PARRY SIZES (WITH INSULATED EQUIPMENT GROUND CONDUCTORS) AT TOP OF POLE AND USE POLE AS A CHASE TO FEED DOWN TO CHECKOUT AREA EQUIPMENT.
- ALL CIRCUITS BELOW SHALL BE PROVIDED BY THE BELL, TERMINATING AT JUNCTION BOX IN JOIST SPACE ABOVE INDICATED EQUIPMENT. FIT SHALL CONDUIT CIRCUITS THROUGH POWER POLE AND TERMINATE AT EQUIPMENT.
- 120V DEDICATED EMERGENCY "CLEAN" STANDBY POWER ISOLATED GROUND CIRCUIT FOR EACH CHECKOUT REGISTER WITH ONE ISOLATED GROUND DUPLEX RECEPTACLE AT END OF EIGHT-FOOT COOLED FLEXIBLE METAL CONDUIT IN BASE OF CASEWORK.
 - (1) 120V DEDICATED EMERGENCY "DIRTY" STANDBY POWER CIRCUIT FOR EACH CHECKOUT REGISTER WITH ONE DUPLEX RECEPTACLE AT END OF EIGHT-FOOT COOLED FLEXIBLE METAL CONDUIT IN BASE OF CASEWORK.
 - (1) 120V DEDICATED CIRCUIT AT EACH CHECKOUT FOR MISCELLANEOUS POWER WITH ONE DUPLEX RECEPTACLE AT END OF EIGHT-FOOT COOLED FLEXIBLE METAL CONDUIT IN BASE OF CASEWORK.
- PROVIDE JUNCTION PER LOW VOLTAGE SCHEDULE ON CIRCUITING FOR "DIRTY" POWER LOADS SHALL NOT ORIGINATE OR IN ANY WAY BE CONNECTED OR ROUTED THRU DEDICATED "CLEAN" ELECTRIC CONDUIT/RACEWAY OR PANEL THAT SERVES RECEIVERS.
- SEE SCHEDULE E0.2 (FOR CHECKOUTS) AND E0.3-S0A (FOR U-SCANS) ON THE E0-SERIES DRAWINGS.
- RELOCATED CASH REGISTER, FIELD VERIFY EXISTING ELECTRICAL AND DATA REQUIREMENTS. RECONNECT TO EXISTING CIRCUIT NOTED.
 - NEW EQUIPMENT TO REPLACE EXISTING, REUSE EXISTING CIRCUIT. PROVIDE NEW CONDUITS AND EQUIPMENT AS NEEDED FOR A FULLY OPERATIONAL SYSTEM.
 - INSTALL NEW HAND OFFER IN PLACE OF OLD UTILIZING EXISTING CIRCUIT. CONTRACTOR TO VERIFY EXISTING CIRCUIT IS SUFFICIENT FOR THE POWER REQUIRED.

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Kroger
 GENERAL OFFICE
 FACILITY ENGINEERING

NO DATE REVISIONS
 REVISIONS
 PROJECT NO: 2019-0125
 DATE: 03/18/2019

E4.1
 ELECTRICAL PARTIAL POWER
 PLAN - 1 OF 4

CHECKED: DS DRAWN: VLD

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