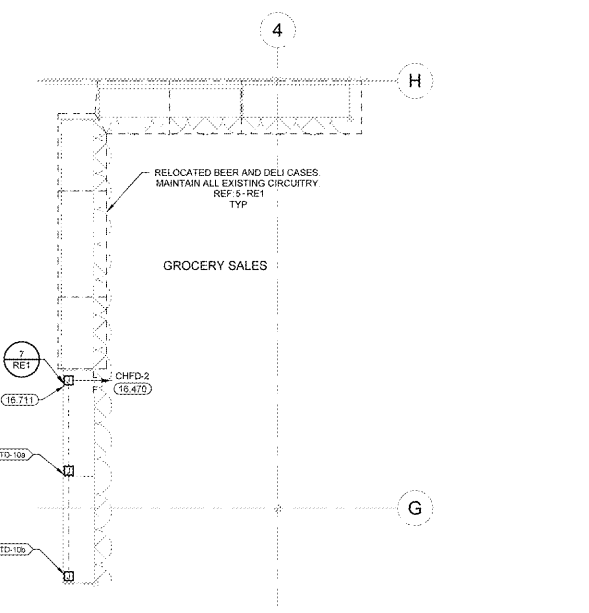
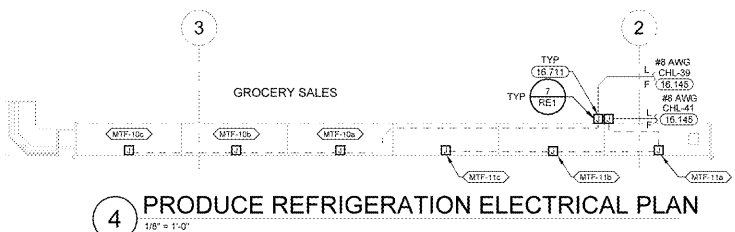


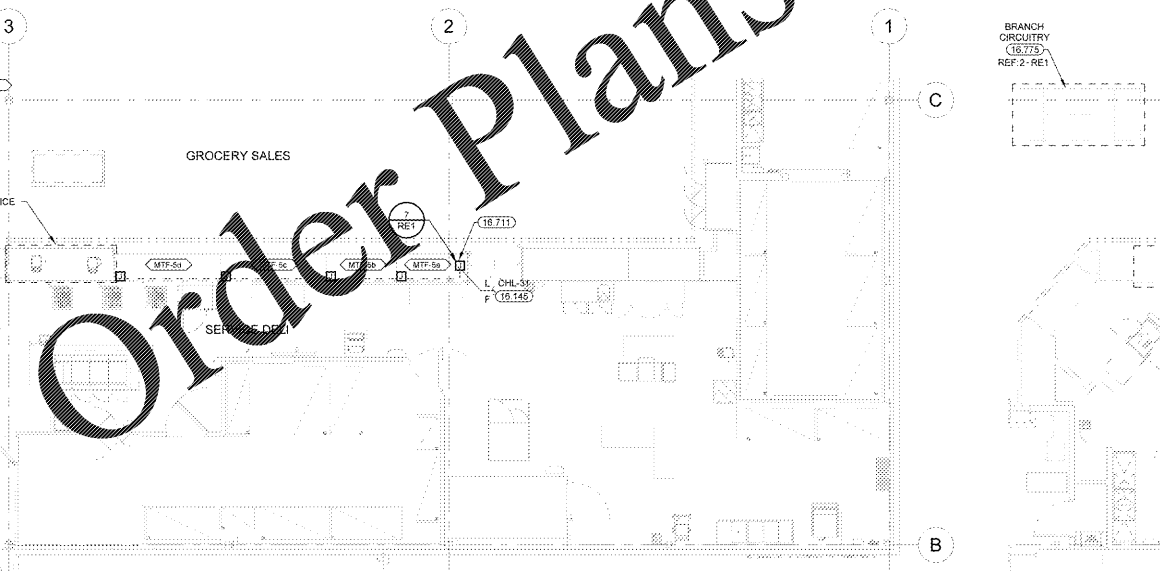
**9 UPC ROOM POWER PLAN**  
1/8" = 1'-0"



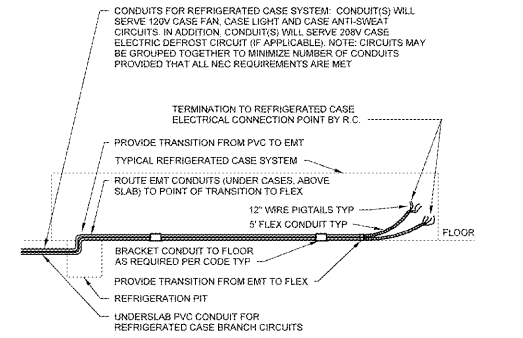
**6 REAR REFRIGERATION ELECTRICAL PLAN**  
1/8" = 1'-0"



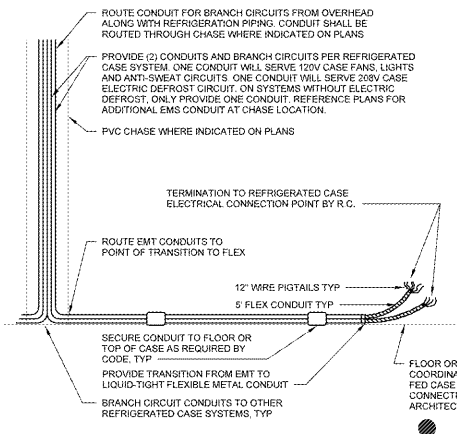
**4 PRODUCE REFRIGERATION ELECTRICAL PLAN**  
1/8" = 1'-0"



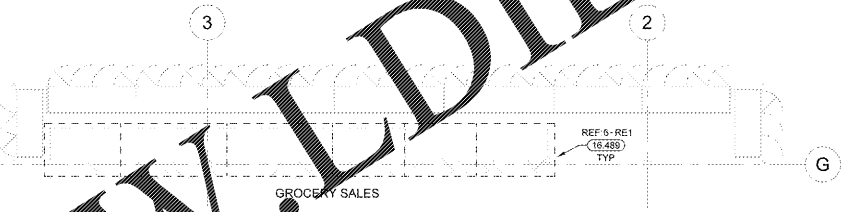
**2 REFRIGERATION ELECTRICAL PLAN**  
1/8" = 1'-0"



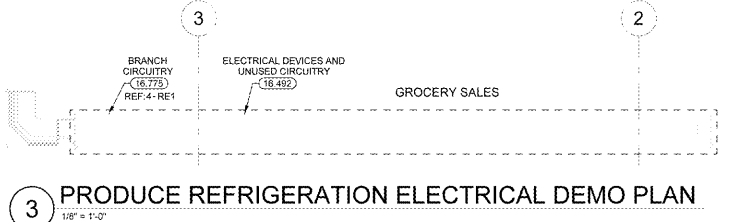
**8 UNDERSLAB CASE CONNECTION WIRING**  
NTS



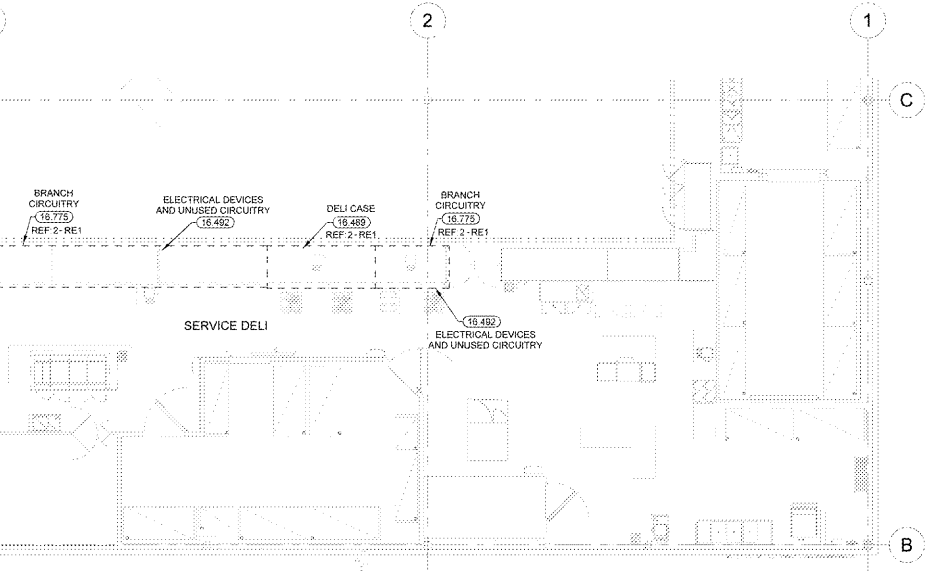
**7 CASE CONNECTION WIRING**  
NTS



**5 REAR REFRIGERATION ELECTRICAL DEMO PLAN**  
1/8" = 1'-0"



**3 PRODUCE REFRIGERATION ELECTRICAL DEMO PLAN**  
1/8" = 1'-0"



**1 FRONT REFRIGERATION ELECTRICAL DEMO PLAN**  
1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

**GENERAL REFRIGERATION ELECTRICAL NOTES**

- COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR (R.C.) PRIOR TO INSTALLATION.
- REFRIGERATED CASES, E.C. SHALL PROVIDE CONDUIT AND WIRE FOR REFRIGERATED CASE FANS, LIGHTS AND ANTI-SWEAT HEATERS, AND IF APPLICABLE, ELECTRICAL DEFROST. PROVIDE ADEQUATE CONDUIT LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT CASE BY R.C. REF. CASE CONNECTION WIRING DETAIL.
- NEW CASES ARE PROVIDED WITH A FACTORY INSTALLED TERMINAL STRIP AND JUMPERS FOR CONNECTION TO A SINGLE CIRCUIT FOR 120V CASE LOADS. R.C. SHALL REMOVE FACTORY INSTALLED JUMPERS AS REQUIRED TO UTILIZE EXISTING SEPARATE 120V FAULT-CURRENT LIMITING CIRCUITS AS INDICATED ON PLANS AND/OR PANELBOARD SCHEDULES. ANY EXISTING ANTI-SWEAT CONTROL (SWEATMISER) SHALL BE BY-PASSED. CASES UTILIZING ELECTRICAL DEFROST WILL BE PROVIDED WITH SEPARATE TERMINATIONS AT THE TERMINAL STRIP FOR CONNECTION TO THE 208V ELECTRIC DEFROST CIRCUIT. R.C. SHALL MAKE FINAL CONNECTIONS OF 120V AND 208V POWER CIRCUITS (S) AT THE TERMINAL STRIP. REFER TO CASE CONNECTION SCHEMATIC FOR REFRIGERATION CIRCUITS.
- WALK-IN UNITS: PROVIDE CONDUIT AND WIRE FOR EVAPORATOR COIL FANS (CF) AND (IF APPLICABLE) ELECTRICAL DEFROST (ED). PROVIDE ADEQUATE CONDUIT LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT COIL BY R.C. REF. EVAPORATOR COIL WIRING DETAIL.
- ROUTE REFRIGERATED CASE AND WALK-IN UNIT COIL FAN LIGHTS, ANTI-SWEAT AND DEFROST BRANCH CIRCUITS TO WIREWAYS PROVIDED AT REFRIGERATION EQUIPMENT AND/OR PANELBOARDS AS REQUIRED.
- REFRIGERATED CASE WIRING COMPARTMENT REPRESENTED ON DRAWING BY JUNCTION BOX.
- KEEP PENETRATIONS THROUGH WALK-IN UNITS TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS ON INSIDE OF BOX.
- ALL CONDUITS INSTALLED ON TOP OF WALK-IN UNITS SHALL BE A MINIMUM OF 6" FROM ANY EDGE TO ALLOW SPACE FOR EDGE PROTECTION NETTING. DO NOT ROUTE CONDUITS ABOVE THE CEILING GRID ACCESS UNLESS CONDUITS ARE INSTALLED IN JOIST SPACE. REF. ARCH.
- UNDERSLAB CIRCUITS SHALL NOT BE ROUTED UNDER WALK-IN FREEZERS AND SHALL BE ROUTED ABOVE REFRIGERANT LINES WHERE THEY CROSS.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY UNDERSLAB REFRIGERATION PIPING ARE TO BE ROUTED UNDERSLAB AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRING AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY E.C. REFER TO UNDERSLAB CASE CONNECTION WIRING DETAIL.
- ALL UNDERSLAB CONDUITS SHALL BE 3/4" MIN.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY OVERHEAD REFRIGERATION PIPING ARE TO BE ROUTED DOWN FROM STRUCTURE AT THE SAME LOCATION AS THE REFRIGERATION PIPING AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRE AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY THE R.C. REFER TO OVERHEAD CASE CONNECTION WIRING DETAIL.
- ON GROUPS OF THREE OR MORE REFRIGERATED CASES WITH ELECTRIC DEFROST, R.C. SHALL CONNECT CASES TO CREATE A THREE-PHASE HEATER CIRCUIT. HEATER LOADS SHALL BE BALANCED BETWEEN PHASES AS EVENLY AS POSSIBLE. REF. CASE DEFROST WIRING DETAIL.
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT SERVING REFRIGERATED CASES OR WALK-IN UNITS AS INDICATED ON PLANS.
- PROVIDE CIRCUIT BREAKER LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE) ON NEW AND/OR EXISTING CIRCUIT BREAKERS SERVING REFRIGERATED CASE ANTI-SWEAT HEATERS OR DRAIN HEATERS.
- REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

**KEYNOTES**

- CONNECT CIRCUITS TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.
- FURNISH AND INSTALL NEW 20 AMP, 120 VOLT CIRCUITS. FEED FROM PANELBOARD AS INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER IF NEEDED. E.C. SHALL MATCH MANUFACTURER, TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS.
- RELOCATE, EXTEND, AND RECONNECT CIRCUITRY AND ELECTRICAL DEVICES FOR RELOCATED AND/OR NEW EQUIPMENT. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT AND WIRE TO ENSURE THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. VERIFY FINAL LOCATION OF RELOCATED/NEW EQUIPMENT WITH WALMART CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD. REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.
- POINT OF TRANSITION FROM EMT TO FLEX. PROVIDE CONDUIT AND BRANCH CIRCUITS FOR REFRIGERATED CASE FANS, LIGHTS, ANTI-SWEAT HEATERS, AND ELECTRICAL DEFROST (IF REQUIRED). TERMINATION TO REFRIGERATED CASE ELECTRICAL CONNECTION POINT BY R.C. REFER TO CASE CONNECTION WIRING DETAIL.
- E.C. SHALL DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL CIRCUITRY FOR NEW OR RELOCATED EQUIPMENT. REFERENCE POWER PLANS AS APPLICABLE. VERIFY CONDITION OF BRANCH CIRCUIT, CONDUIT, AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. COORDINATE THIS PROCESS WITH CONSTRUCTION MANAGER TO MINIMIZE DOWNTIME. LABEL ALL ASSOCIATED PANELBOARD SCHEDULES TO REFLECT LOAD DESCRIPTIONS.

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CYNTERGY ENGINEERING, PLLC  
CA # P-588  
EXPIRES 06/30/2020  
MATTHEW RUTKOWSKI, P.E.  
REGISTERED PROFESSIONAL ENGINEER

**REFRIGERATION ELECTRICAL PLANS**

SHEET: **RE1**