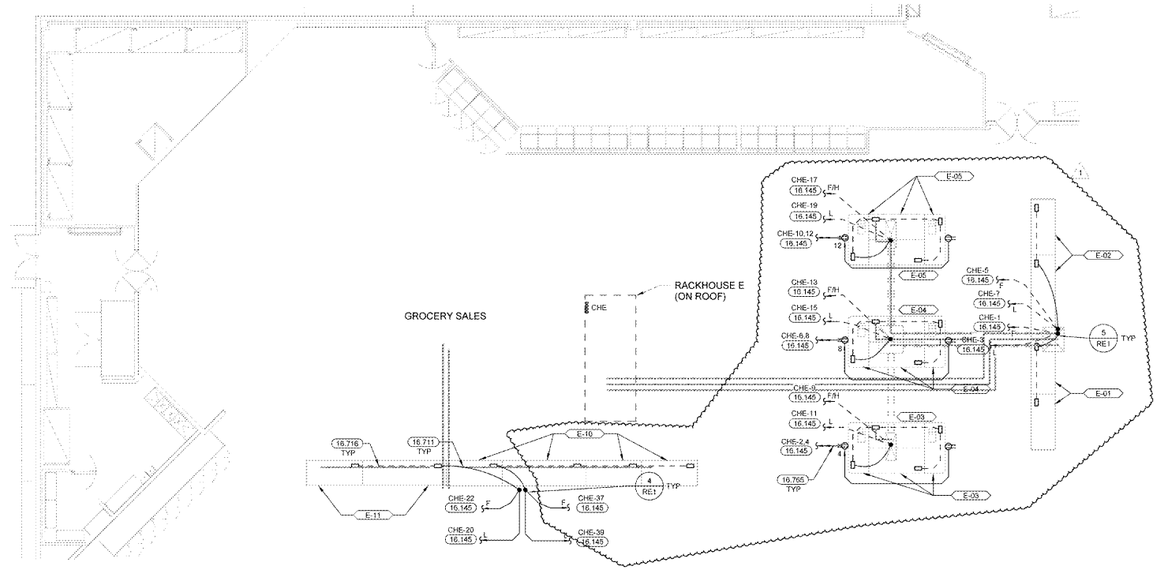
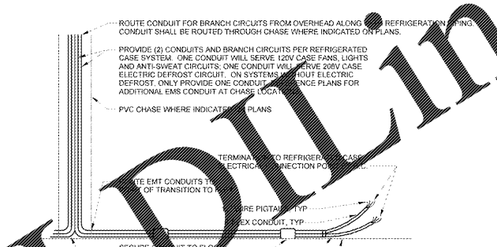
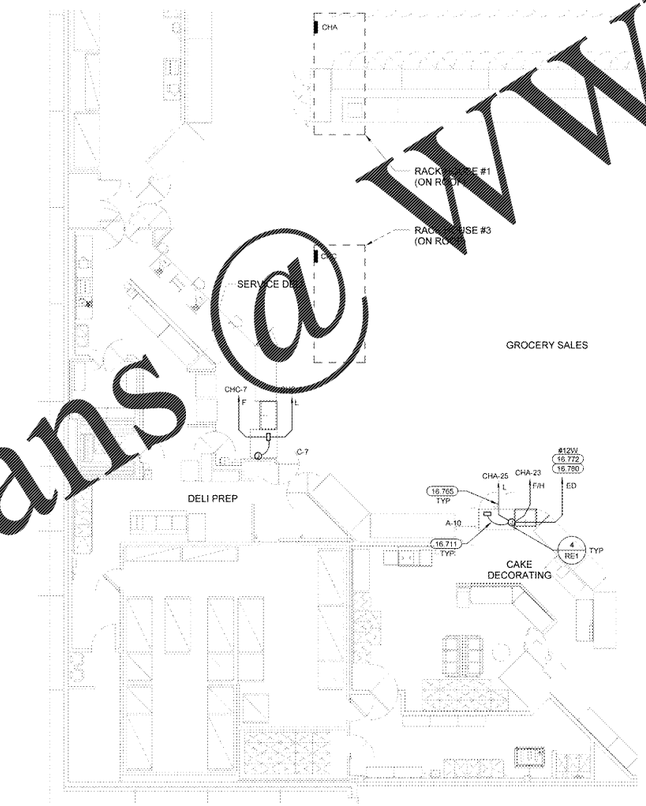


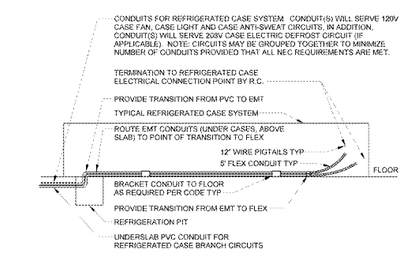
3 REAR REFRIGERATION ELECTRICAL PLAN
1/8" = 1'-0"



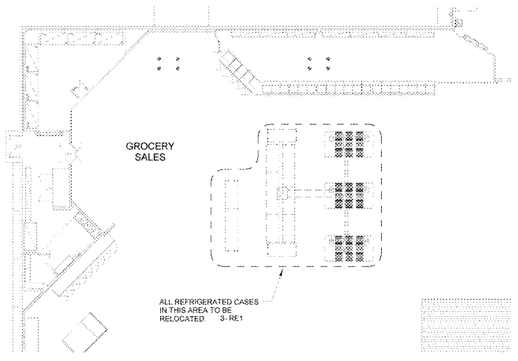
4 OVERHEAD CASE CONNECTION WIRING
NTS



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



5 UNDERSLAB CASE CONNECTION WIRING
NTS



1 REFRIGERATION ELECTRICAL DEMO PLAN
1/16" = 1'-0"

GENERAL REFRIGRATION ELECTRICAL NOTES

05.26.17 EN06

1. PROVIDE ALL CONDUIT AND WIRE AS INDICATED ON DRAWING. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR TERMINATION BY REFRIGERATION CONTRACTOR.
2. COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALLATION.
3. KEEP PENETRATIONS THROUGH COOLER AND FREEZER BOXES TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS ON INSIDE OF BOX.
4. UNDERSLAB CIRCUITS SHALL NOT BE ROUTED UNDER WALK-IN FREEZERS AND SHALL BE ROUTED ABOVE REFRIGERANT LINES WHERE [illegible]
5. ON GROUPS OF THREE OR MORE REFRIGERATED CASES WITH ELECTRIC DEFROST, REFRIGERATION CONTRACTOR SHALL CONNECT CASES TO CREATE THREE-PHASE BRANCH CIRCUITS. WATER LOADS SHALL BE BALANCED BETWEEN PHASES AS EVENLY AS POSSIBLE. STAGGER CASE DEFROST TIMES.
6. ROUTE REFRIGERATED CASE AND COIL FAN, LIGHTS, ANTI-SWEAT AND DEFROST BRANCH CIRCUITS TO WIREWAYS PROVIDED AT REFRIGERATION EQUIPMENT. PROVIDE ADDITIONAL 6 FEET OF CONDUCTOR AT REFRIGERATION EQUIPMENT TO ALLOW ADEQUATE LENGTH FOR TERMINATION. FINAL TERMINATION AT REFRIGERATED CASES BY REFRIGERATION CONTRACTOR.
7. [illegible] REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.
8. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT SERVING REFRIGERATED CASES OR WALK-IN UNITS AS INDICATED ON PLANS.

REFRIGERATED CASE WIRING NOTES

1. E.C. SHALL PROVIDE CONDUIT AND WIRE FOR REFRIGERATED CASE FANS, LIGHTS AND ANTI-SWEAT HEATERS TO WIREWAY AT REFRIGERATION EQUIPMENT, UNLESS NOTED OTHERWISE. WIRE SIZE AS INDICATED IN SCHEDULE. FINAL TERMINATIONS AT CASE AND AT REFRIGERATION EQUIPMENT BY R.C. REF CASE CONNECTION WIRING DETAIL.
2. REFRIGERATED CASE WIRING COMPARTMENT REPRESENTED ON DRAWING BY RECTANGULAR BOX.
3. CIRCUITS FOR REFRIGERATED CASES SERVED BY UNDERSLAB REFRIGERATION PIPING ARE TO BE ROUTED UNDERSLAB. REFER TO CASE CONNECTION WIRING DETAIL.
4. ALL UNDERSLAB CONDUITS SHALL BE 3/4" MIN.
5. 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 BY THE E.C. WIRE AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY THE R.C.

KEYNOTES

16.145	CONNECT TO EXISTING BRANCH CIRCUIT. VERIFY PRIOR TO ROUGH-IN THAT EXISTING CIRCUIT HAS CAPACITY TO ACCOMMODATE NEW LOAD. VERIFY CONDITION OF BRANCH CIRCUIT, CONDUIT AND WIRE PRIOR TO USE TO INSURE THAT THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED
16.711	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 RC. REFER TO CASE CONNECTION WIRING DETAIL.
16.716	SLAVE WIRING BETWEEN REFRIGERATED CASES IN WIREWAY PROVIDED BY REFRIGERATION CONTRACTOR.
16.765	EC SHALL PROVIDE CONDUIT AND FEEDERS FOR REFRIGERATED CASE FANS, LIGHTS, ANTISWEATS, RECEPTACLES, AND ELECTRIC DEFROST IF REQUIRED. TAG AND LABEL EACH CIRCUIT FOR FINAL TERMINATION BY R.C. WHEN POSSIBLE ELECTRICAL CIRCUIT ROUTING SHALL FOLLOW THE REFRIGERATION LINES TO STRUCTURE.
16.772	ROUTE ELECTRIC DEFROST (ED) CIRCUITS TO COMPRESSOR ENCLOSURE CONTROL CABINET FINAL CONNECTION TO REFRIGERATED CASE ELECTRICAL RACEWAY AND CONTROL CABINET BY RC. WHEN POSSIBLE ELECTRICAL CIRCUIT ROUTING SHALL FOLLOW THE REFRIGERATION LINES TO STRUCTURE.
16.780	EC SHALL INSTALL VENDOR FURNISHED FUSES AND CONTACTOR FOR REFRIGERATION SYSTEM ELECTRIC DEFROST AND/OR EVAPORATOR FAN. PROVIDE WIRE BETWEEN FUSES AND CONTACTOR. PROVIDE A NEW NEMA 1 ENCLOSURE FOR ELECTRIC DEFROST AND/OR FAN SYSTEM IF NEEDED. MOUNT NEMA 1 ENCLOSURE AS CLOSE AS POSSIBLE TO EXISTING RACK CABINET.

NOTE: REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL FINAL REFRIGERATION ELECTRICAL TERMINATIONS TO REFRIGERATION EQUIPMENT.

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.

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REFRIGERATION ELECTRICAL PLANS

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