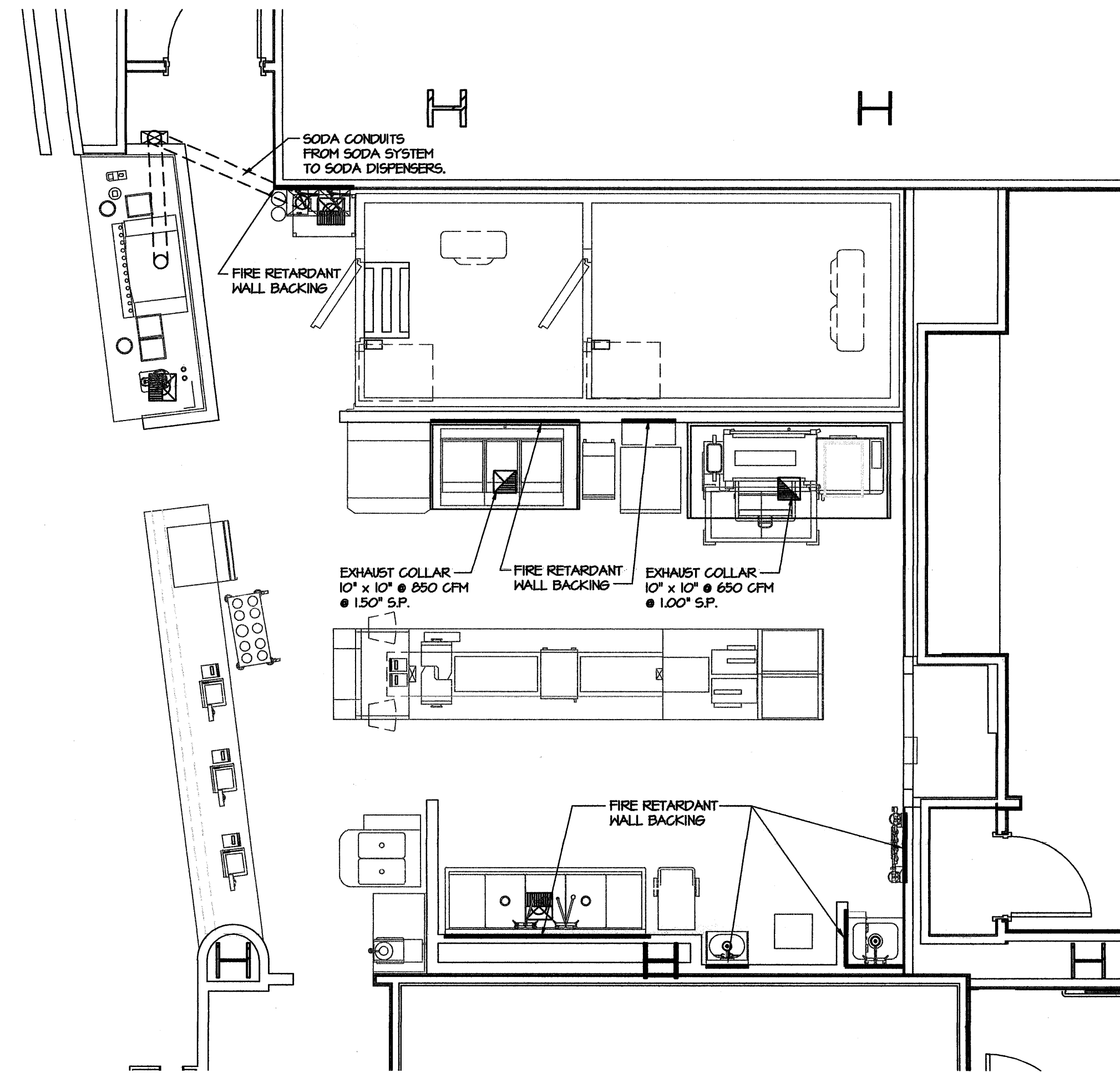
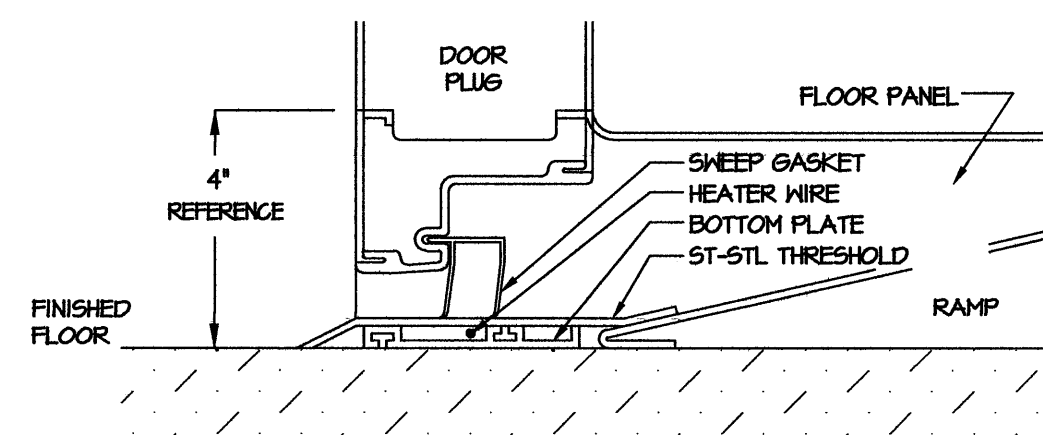
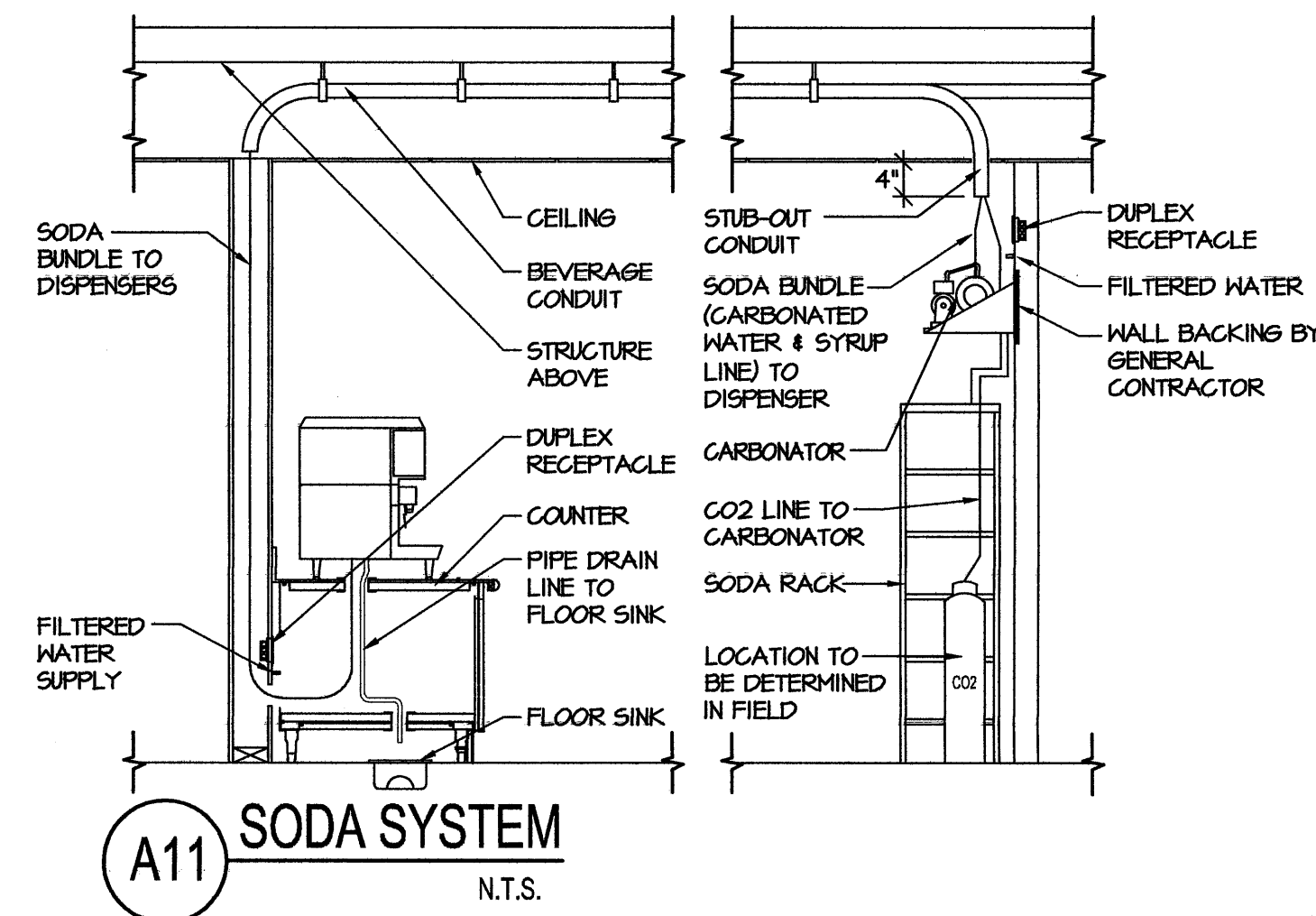


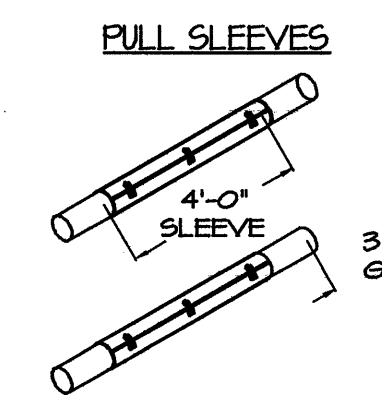
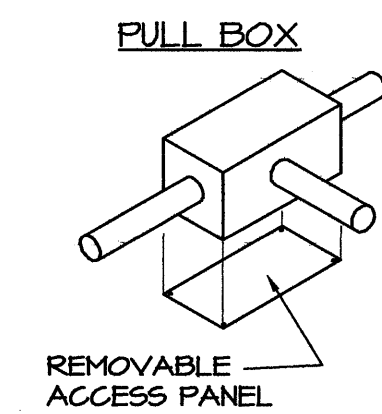
## SPECIAL CONDITIONS NOTES

- ALLOW A MINIMUM OF 2" CLEARANCE BETWEEN WALK-IN AND BUILDING WALLS.
- BUILDING FLOORS MUST BE TRANSIT LEVEL. THE AREA IN WHICH THE WALK-IN IS SET MUST BE SQUARE TO ALLOW THE 1" CLEARANCE.
- IF SHIMMING OF THE FLOOR PANELS IS REQUIRED, THE WALK-IN FLOOR MUST BE LEVELED FROM THE HIGHEST POINT. SHIMS MUST EXTEND UNDER THE ENTIRE SECTION AND MUST BE USED AT THE EDGES AND THE FLOOR SEAM SHIMS MUST NOT EXCEED 12" ON CENTERS.
- IF THE WALK-IN FLOOR PANELS ARE TO BE SET IN A RECESSED SLAB, SAND MAY BE USED TO SHIM THE FLOOR TO THE APPROPRIATE HEIGHT. USE 500 MIL POLYETHYLENE BETWEEN THE SAND AND THE WALK-IN FLOOR. OVERLAP A MINIMUM OF 6" AT THE EDGES.
- IF FLOOR PANELS ARE PLACED DIRECTLY ON THE CONCRETE BUILDING FLOOR, USE A LAYER OF 50 LB. ASPHALT PAPER BETWEEN THE BUILDING FLOOR AND FLOOR PANELS.
- IF CONCRETE OR QUARRY TILE IS TO BE INSTALLED AFTER THE ERECTION OF THE WALK-IN DOORS ARE TO REMAIN OPEN UNTIL CONCRETE OR GROUT HAS CURED, WALL PANELS ARE TO BE PROTECTED BY 5 MIL POLYETHYLENE TAPED TO THE WALLS.
- IN FREEZER COMPARTMENTS, ALL CEILING, WALL, AND FLOOR PANELS ARE TO BE SEALED WITH NSF LISTED, U.S.D.A. APPROVED SEALANT, SUCH AS DOW CORNING RTV 132 OR EQUAL, CLEAR OR ALUMINUM. SEAL ALL JOINTS PRIOR TO REFRIGERATION START-UP.
- DO NOT ENERGIZE DOOR PANEL UNTIL REFRIGERATION IS OPERATIONAL.
- IF LOCAL CODE PERMITS, USE UL LISTED PVC CONDUIT FOR ELECTRICAL CONNECTIONS.
- ALL PENETRATIONS THROUGH THE WALK-IN PANELS MUST BE MADE A MINIMUM OF 6" AWAY FROM THE LOCKING DEVICES. VERIFY WITH THE SPECIFIC MANUFACTURER'S DIRECTIONS.
- CONDENSING UNITS LOCATED OUTDOORS TO INCLUDE LOW AMBIENT CONTROLS, WEATHER HOUSING, AND WELDED STAINLESS STEEL RACK.
- ALL PENETRATIONS FOR CONDUIT, PIPING, LIGHT FIXTURES, ETC. ARE TO BE SEALED AIRTIGHT.
- CONDENSING UNITS ARE TO BE SET LEVEL AND ANCHORED. CONDENSERS SHOULD BE NO CLOSER THAN 18" TO ANY OBSTRUCTION. DO NOT RESTRICT THE AIR-IN SIDE OR AIR-OUT SIDE. MULTIPLE UNITS SHOULD BE LOCATED SO DISCHARGED AIR FROM ONE UNIT IS NOT DIRECTED INTO THE INTAKE SIDE OF ANOTHER UNIT. UNITS LOCATED INDOORS MUST HAVE AN ADEQUATE SUPPLY OF AIR AND A MEANS OF EXHAUST TO PREVENT HEAT BUILD-UP.
- MOUNT COILS LEVEL. WHERE POSSIBLE, THE AIR-IN SIDE SHOULD BE MINIMUM OF 12" FROM THE STRUCTURE WALL. COIL IS TO BE MOUNTED FACING EXTERIOR DOOR AND AIR DISCHARGE SHOULD NOT BE DIRECTED TOWARD INTERIOR PARTITION FREEZER DOORS. MOUNT COILS USING 3/8" NYLON ALL-THREAD RODS, NUTS, AND WASHERS. SILICONE SEAL PENETRATIONS FOR ALL-THREAD.
- F.E.C. IS TO PROVIDE REFRIGERATION PIPING. PIPING INDICATED ON THIS DRAWING IS SCHEMATIC ONLY. F.E.C. TO VERIFY FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES.
- PIPING IS TO BE REFRIGERATION GRADE, COPPER TYPE "K" OR "L". SOLDERED JOINTS ARE TO BE MADE USING ONLY SILVER BEARING HARD SOLDER. DURING BRAZING OPERATIONS, A SMALL AMOUNT OF NITROGEN SHOULD BE BLED INTO THE PIPING. KEEP ALL TUBING FREE OF METAL CHIPS, FOREIGN MATTER, AND MOISTURE DURING INSTALLATION.
- SUCTION LINE PIPING TO BE INSTALLED WITH 1/2" PER 10' SLOPE TOWARD THE COMPRESSOR. WHEN THE CONDENSER IS LOCATED ABOVE THE COIL, INSTALL AN OIL TRAP IN THE SUCTION LINE BEFORE THE FIRST RISE. ADDITIONAL OIL TRAPS SHOULD BE INSTALLED FOR EACH 20' OF RISE OR PER THE MANUFACTURER'S RECOMMENDATIONS. INSULATE SUCTION LINES WITH A MINIMUM OF 1/2" THICK TUBE INSULATION SUCH AS RUBATEX OR ARMAFLEX.
- THE LIQUID LINE IS TO BE INSTALLED IN SUCH A MANNER AS TO AVOID EXCESSIVE PRESSURE DROPS. LIQUID LINE SOLENOID VALVE IS TO BE INSTALLED AHEAD OF THE EXPANSION VALVE.
- THE ENTIRE SYSTEM IS TO BE LEAK TESTED AND EVACUATED PER LOCAL CODES AND THE MANUFACTURER'S RECOMMENDATIONS.
- EVAPORATOR COIL DRAIN IS TO BE PIPED WITH TYPE "L" COPPER PIPE. DRAIN LINE IS TO BE PITCHED 4" PER FOOT. P-TRAP IS TO BE INSTALLED ON THE EXTERIOR OF THE STRUCTURE. FREEZER DRAIN LINE TO BE WRAPPED WITH DRAIN LINE HEATER WITH A MINIMUM OF 80 WATTS PER LINEAR FOOT AND INSTALLED WITH A MINIMUM 1/2" THICK TUBE. INSULATION DRAIN LINE HEATER THAT IS TO BE RATED THE SAME VOLTAGE AS FREEZER EVAPORATOR UNIT.
- F.E.C. IS TO PROVIDE AND INSTALL COIL DRAIN PIPING, HEAT TAPE, AND INSULATION.
- F.E.C. IS TO PROVIDE STAINLESS STEEL CLOSURE PANELS AND TRIM AT POINTS WHERE WALK-IN STRUCTURE IS ADJACENT TO WALLS AND CEILING.

ROUGH-IN DIMENSIONS ARE PROVIDED FOR GUIDANCE ONLY. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE TO VERIFY, COORDINATE, AND ADJUST FOR FIELD CONDITIONS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE TO VERIFY, COORDINATE, AND ADJUST THESE DIMENSIONS BASED UPON THE EQUIPMENT PROVIDED BY THE OWNER OR OTHER CONTRACTORS UNDER CONTRACT TO THE OWNER.



## GENERAL BEVERAGE CONDUIT NOTES



• WHEN A JUNCTION OR MULTIPLE CHANGES IN DIRECTION ARE REQUIRED INSTALL A PULL BOX. PULL BOXES ARE TO BE INSTALLED WITH ACCESS PANEL ON THE UNDERSIDE OF THE BOX AS ILLUSTRATED.

• ACCESS TO PULL BOXES MUST BE MAINTAINED UNTIL BEVERAGE LINES HAVE BEEN PULLED AND WET-TESTED.

• SECURE & TIGHTEN REMOVABLE ACCESS PANEL WHEN LINE PULL AND TESTING ARE COMPLETED.

• INSTALL PULL SLEEVES IN ACCESSIBLE LOCATION EVERY 75 FEET OR EVERY THREE (3) BENDS, WHICHEVER OCCURS FIRST, TO ASSIST IN THE LINE PULL.

• INSTALL PULL SLEEVE IN A CLOSED POSITION. IF LINE PULL GOES SMOOTHLY, THERE IS NO NEED TO OPEN. IF LINE PULL ASSISTANCE IS NEEDED, LOOSEN & SLIDE PULL SLEEVE BACK OVER CONDUIT AS SHOWN FOR ACCESS TO BEVERAGE LINES. CLOSE AND LABEL WHEN FINISHED.

• ACCESS TO PULL SLEEVES MUST BE MAINTAINED UNTIL BEVERAGE LINES HAVE BEEN PULLED AND WET-TESTED.

### BEVERAGE LINE CONDUIT SYSTEMS SPECIFICATION

A. THE BEVERAGE LINE CONDUIT SYSTEMS TO BE INSTALLED HERE UNDER SHALL BE 6" AND/OR 8" AS REQUIRED TO SUPPORT THE SPECIFIED BEER, LIQUOR AND SODA SYSTEM EQUIPMENT AND AS MAY BE SHOWN ON THE FOOD SERVICE DRAWINGS, CORROSION RESISTANT ALUMINUM CONDUIT TUBING, CONFORMING TO ASTM-B313 AND ANSI-H26, AND H35.1, AS MANUFACTURED BY KELLY BEVWAY SYSTEMS CO., CHICAGO, IL, 877-153-0600.

B. BENDS SHALL BE LONG SWEEP TYPE, OF THE SAME GRADE AND COATED IN THE SAME MANNER AS THE TUBING SPECIFIED ABOVE. MINIMUM CENTERLINE RADIUS OF ALL BENDS SHALL BE 30" FOR 6" O.D. AND 32" FOR 8" O.D. IN RESTRICTED AREA SPACES BENDS MAY BE 24" FOR 6" O.D. AND 26" FOR 8" O.D., BUT SHOULD BE KEPT TO A MINIMUM. NO SEGMENTED ELBOWS OR SHORT RADIUS PLUMBING ELBOWS SHALL BE PERMITTED.

C. ALL JOINTS SHALL BE MADE WITH A LIQUID-TITE MECHANICAL BOLTED COUPLING SYSTEM OR LIQUID-TITE SLIP COUPLING SYSTEM. EDGES OF TUBING AND BENDS MUST BE DEBURRED AND SMOOTHED PRIOR TO FORMING JOINTS. EXPANSION SLEEVES WITH A MOISTURE BARRIER MUST BE PROVIDED WHERE THE CONDUIT CROSSES BUILDING EXPANSION JOINTS, LIQUID-TITE INTEGRITY MAINTAINED.

D. NO SPIRAL FORMED TUBING OR DUCT, OR OTHER NON-SMOOTH INTERIOR TUBING OR CONDUIT SHALL BE PERMITTED EXCEPT THAT FLEXIBLE METAL CONDUIT MAY BE USED IN AREAS WHERE STRUCTURAL MOVEMENT CAN BE EXPECTED. PVC SHALL BE USED ONLY FOR UNDERGROUND AND OTHER BURIED PORTIONS OF THE SYSTEMS, SCHEDULE 40 TYPE WITH LONG RADIUS BENDS, 30" FOR 6" PVC AND 48" FOR 8" PVC.

E. MULTI-CLAMPED PULL SLEEVES, FOUR (4) FEET LONG MINIMUM, MUST BE PROVIDED FOR CONTINUOUS ACCESS TO BEVERAGE LINES IN ACCESSIBLE LOCATIONS APPROXIMATELY EVERY 75 FEET OR EVERY THREE (3) BENDS, WHICHEVER OCCURS FIRST. WHERE JOINTS ARE REQUIRED, PULL BOXES HAVING ADEQUATE INSIDE DIMENSIONS FOR PULLING AND TURNING WILL BE PROVIDED IN PLACE OF A PULL SLEEVE.

F. CONDUIT SYSTEM TERMINATIONS SHALL BE STUBBED-UP 4" ABOVE FINISHED FLOOR UNLESS OTHERWISE CALLED OUT ON DRAWINGS. ALL FLOOR PENETRATIONS SHALL BE SEALED WITH A UL APPROVED FIRE STOP ASSEMBLY METHOD.

G. ALL TERMINATIONS SHALL BE FINISHED WITH A ROUNDED SLIP FITTING END-MOUTH HAVING A SMOOTH BELL-SHAPED SHAGED OUTER EDGE.

H. SUPPORT HANGERS WILL BE DOUBLE ROD TYPE AND SPACED ON 10 FOOT CENTERS. NO COILS OR OTHER SINGLE ROD HANGER ASSEMBLIES SHALL BE PERMITTED. SUPPORT HANGERS WILL BE PROVIDED WITHIN 1 FOOT OF EACH PULL BOX.

### BEVERAGE LINE CONDUIT SYSTEMS NOTES:

1. BEVERAGE LINE CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL BEER AND SODA SYSTEMS.

2. BEVERAGE LINE CONDUIT SYSTEM MATERIALS SHALL INCLUDE AS REQUIRED: 6" AND 8" ALUMINUM CONDUIT, ALUMINUM LONG RADIUS BENDS, BOLTED SPLIT SLEEVE COUPLINGS, 4" LONG PULL SLEEVES, EXPANSION SLEEVES, CUSTOM GALVANIZED OR STAINLESS STEEL PULL BOXES, NIPPLE PLATES, END FITTINGS, DOUBLE ROD ROW CLAMP HANGERS, LIQUID PROTECT SEALANT AND TAPE AND OTHER REQUIRED MATERIALS FOR THE COMPLETE AND PROPER INSTALLATION OF THE BEVERAGE LINE CONDUIT SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS.

3. BEVERAGE LINE CONDUIT SYSTEM INSTALLATION SHALL BE COMPLETE AND INCLUDE ALL TRENCHING, HOLE CORING, SLEEVING, CUTTING, FIRE STOPPING, AND PATCHING THROUGH WALLS, FLOORS AND CEILING AS REQUIRED. ALL PENETRATIONS SHALL BE FINISHED WITH A UL APPROVED FIRE STOP ASSEMBLY METHOD OR AS MAY BE PERMITTED WITH ACCEPTABLE ENGINEERING JUDGMENTS BASED ON UL TESTED SYSTEMS FROM A RECOGNIZED FIRE PROTECTION ENGINEER.

4. BEVERAGE LINE CONDUIT SYSTEMS ARE REQUIRED FOR ALL BEER AND SODA SYSTEMS. DRAWINGS FOR THE BEVERAGE LINE CONDUIT SYSTEMS ARE DIAGRAMMATIC AND INTENDED ONLY TO DESCRIBE SERVICE POINTS BETWEEN BEER COOLERS AND STORAGE ROOMS AND INDIVIDUAL SERVICE POINTS.

5. DRAWINGS ARE DIAGRAMMATIC ONLY. ALL BEVERAGE LINE CONDUIT SYSTEM ROUTINGS, PENETRATIONS, STUB-UPS AND TERMINATION POINTS SHALL BE FIELD DETERMINED AND SHALL BE COORDINATED WITH OTHER TRADES ON SITE DURING THE MEP COORDINATION PROCESS.

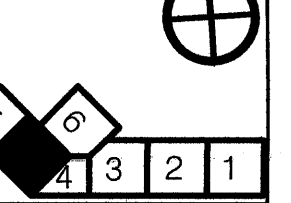
6. KELLY BEVWAY SYSTEMS CO.  
422 N. WESTERN AVE.  
CHICAGO, IL 60612  
PHONE: (877) 153-0600  
FAX: (312) 733-6471  
INFO@BEVWAY.COM

Item	Date
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**Burger King**  
Portland Int'l Leipport PWW  
1001 Westbrook Street  
Portland ME 04102

### KEY PLAN



HMS Host  
6905 Rockledge Drive  
Bethesda, MD 20817  
T: (301) 694-4746  
F: (301) 694-4643  
C: (301) 274-6417  
E: scott.reminik@hmshost.com

Building Engineering Resources, Inc.  
66 Main Street  
North Easton, MA 02556  
T: (508) 230-0260  
F: (508) 230-0262  
E: ber@building-engineering.com

L2M Foodservice Design Group  
811 Cromwell Park Drive, Suite 113  
Cromwell Business Park at 1131  
Glen Burnie, Maryland 21061  
T: (410) 863-1302  
F: (410) 863-1308  
E: FSDG@L2MFoodServiceDesign.com

**LOYD ARCHITECTS**  
Two High Cliff, Plymouth MA 02360  
TEL: (508) 746-4646  
FAX: (508) 746-1236  
E-MAIL: info@lloydarch.com

Job No:  
Scale: As noted  
Issued:  
Foodservice Special Conditions Plan

FS 4.1