



**LEGEND/NOTES**

**REFRIGERATION #S:**

- A-A' existing Rack A (1/2" suction)
- A-B' existing Rack A (2/2" suction)
- B-B' Rack B (1/2" suction)
- C-C' Rack B (1/2" suction)

**PIPING SYMBOLS:**

- ABOVE SLAB PIPING
- - - BELOW SLAB PIPING
- PIPE TERMINATION
- RISERS
- MACHINE ROOM CONNECTIONS
- ⊕ FULL PORT BALL VALVE TO MATCH LINE SIZE  
INSTALL 1/4" ANGLE VALVE ON W/VP SIDE  
NOTE: INSTALL BALL VALVES AS NEAR TO GROUND LEVEL AS POSSIBLE.
- ⊕ 1/4" ANGLE VALVE WITH DANFOSS PRESSURE TRANSDUCER  
Notes: Transducer installation note:  
1) Valves shall be provided by refrigeration contractor.  
Use MULLER valve (R3207) (no substitutes allowed)  
2) Pressure transducers shall be provided by manufacturer.  
3) Install valve & transducer on evaporator suction line, upstream of D/E if used and suction isolation valve, as shown by the R1 drawings.  
Field verify locations of pressure transducers with the manufacturer controls contractor.

**KEYED NOTES:**

- 1) INSTALL PIPING PER "REFRIGERATION SYSTEMS PIPING & INSTALLATION SPECIFICATIONS" ON THIS DRAWING.
- 2) CONTRACTOR SHALL PROVIDE ALL BALL VALVES SHOWN. SOAK-OUT PER OWNER'S INSTRUCTIONS.
- 3) HANG VERTICAL PIPING AS TIGHTLY AS POSSIBLE.
- 4) HANG ALONG COLUMN LINE.
- 5) CONNECT TO CASES ALONG TOP OF LINEUP.
- 6) INSTALL DANFOSS ANY EYE ON EXISTING CASE OR EVAPORATOR. SUPPLIED BY REFRIGERATION CONTRACTOR.

B23: Add new evaporator to expansion area. Connect to existing Produce Cooler circuit with 1/2" Rack B Liquid 1 1/8" Rack B Suction 1 1/8" Riser

**REVISIONS**

NO.	DATE	DESCRIPTION	BY
0	11/14/16	Expanded produce cooler, issued for construction	

Date: MAY, 2015  
 Drawn By: EDS  
 Checked By: BEI  
 Project Mgr: BEI  
 Project No:  
 CAD File: Portland\_Refrigeration.dwg  
 Graphics: 1"  
 Scale: 1" = 1'