



STANDARD MARKET - REFRIGERATION PIPING PLAN (MT)  
SCALE: 1/8" = 1'-0"

**CONTRACTOR NOTES:**  
1. REFRIGERATION CONTRACTOR SHALL SET AND START ALL SELF-CONTAINED EQUIPMENT, INCLUDING ICE MACHINES.  
2. REFRIGERATION CONTRACTOR SHALL INSTALL PROBES IN COOLERS AND FREEZERS. PROBES ARE FURNISHED BY PUBLIX.  
3. ALL WALK-IN COOLERS AND FREEZERS ARE FURNISHED BY PUBLIX AND INSTALLED BY THE MANUFACTURER.  
4. REFRIGERATION CONTRACTOR SHALL INSTALL AND PIPING ALL EVAPORATOR COILS AND HAND VALVES IN COOLERS AND FREEZERS.  
5. FOR ALL OVERHEAD REFRIGERATION PIPING ABOVE THE SALES AREA, THE REFRIGERATION INSTALLATION CONTRACTOR SHALL PROVIDE AND INSTALL A DRAIN PAN AS PER TYPICAL DETAIL 7/R-3.1.  
6. REFRIGERATION CONTRACTOR SHALL SET REFRIGERATION VALVES TO MAINTAIN 100°F AT HEAT RECLAIM TANKS. CUT IN 10°F, CUT OUT AT 140°F. SET AUXILIARY ELEMENTS IN HEAT RECLAIM TANKS TO 100°F. ALL PHENIX SHALL SET ELEMENT IN ELECTRIC WATER HEATER TO 140°F.  
7. REFRIGERATION CONTRACTOR SHALL MOUNT MANUFACTURER SUPPLIED GAS SENSOR UNDERNEATH REFRIGERATION CONDENSER TO AVOID DIRECT CONTACT WITH SUNLIGHT. GAS SENSOR AND WIRING PROVIDED BY MECHANICAL CENTER MANUFACTURER.  
8. REFRIGERATION CONTRACTOR TO COORDINATE REFRIGERATION PIPING WITH DUCTWORK INSTALLER. REFRIGERATION CONTRACTOR AND PLUMBING CONTRACTOR SHALL ALSO COORDINATE REFRIGERATION DROPS AND VENT PIPES TO RUN BUNDLED TOGETHER.

**PIPING NOTES**  
1. ALL OVERHEAD REFRIGERATION PIPING AT BACKROOM NEEDS TO STAY A MINIMUM 3/4" OFF OF THE BACK WALL OF THE SALES FLOOR AREA (WHICH IS THE WALL BEHIND THE MEAT LINEUP).  
2. UTILIZE THE STACKING OF REFRIGERATION LINES WHERE SPACE IS LIMITED.  
3. OVERHEAD REFRIGERATION PIPING TO BE HELD TIGHT TO THE BOTTOM OF THE JOISTS.

**AREAS OF HORIZONTAL RUNS BY TRADES**

<b>ELECTRICAL:</b>	TOP OF STEEL GIRDER AND JOIST TO 32 IN. BELOW TOP OF STEEL, WHERE EXPOSED IN PROTOTYPE, IMMEDIATELY BENEATH TOP OF JOIST MEMBERS AND PASSING BETWEEN STEEL JOIST WEBBING. THE INSTALLATION SHALL BE IN COMPLIANCE WITH NEC 300.4E.
<b>REFRIGERATION:</b>	32 IN. TO 36 IN. BELOW ROOF DECK, EXPOSED IN PROTOTYPE, IMMEDIATELY BELOW BOTTOM CHORD OF STEEL JOIST GIRDERS AND JOISTS.
<b>FIRE SPRINKLER:</b>	8 IN. ABOVE CEILING, WHERE EXPOSED IN PROTOTYPE, 6 IN. ABOVE BOTTOM CHORD OF STEEL GIRDER, JOISTS AND JOISTS.
<b>AIR CONDITIONING:</b>	36 IN. BELOW ROOF DECK TO 10 IN. ABOVE CEILING, WHERE EXPOSED IN PROTOTYPE, HANG AS CLOSE UNDER BOTTOM CHORD OF STEEL JOIST GIRDERS AND JOISTS AS POSSIBLE WHILE LEAVING ROOM FOR REFRIGERATION LINES.

IF DEVIATION FROM THESE AREAS IS INDICATED, SUCH DEVIATION MUST BE AGREED UPON BY JOB SUPERINTENDENT AND PUBLIX REPRESENTATIVE.

**CO<sub>2</sub> INSULATION TABLE**

PIPE SIZE	MILD CONDITIONS 80°F DRY BULB 50% RH, 0 FPM	NORMAL CONDITIONS 85°F DRY BULB 70% RH, 0 FPM	SEVERE CONDITIONS 80°F DRY BULB 80% RH, 0 FPM
3/8"	1"	1 1/2"	2"
1/2"	1"	1 1/2"	2"
5/8"	1"	1 1/2"	2"
7/8"	1"	1 1/2"	2"
1 1/8"	1"	1 1/2"	2"
1 3/8"	1"	1 1/2"	2"
1 5/8"	1"	1 1/2"	2"

**PLOT DATE:**  
August 21 2018

No.	Description	Date

STORE NUMBER  
**1687**  
Tattersall Park  
US 280 & Highway 19  
Hoover  
Shelby Co., AL

**48.10**  
SIENNA LITE

**REFRIG PIPING  
PLAN - PUMP  
LIQ. OVERFEED  
(MEDIUM TEMP)**

1/8" = 1'-0"  
**R1.3**

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