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**CONTRACTOR NOTES:**

- REFRIGERATION CONTRACTOR SHALL SET AND START ALL SELF-CONTAINED EQUIPMENT, INCLUDING COMPRESSORS.
- REFRIGERATION CONTRACTOR SHALL INSTALL PROBES IN COOLERS AND FREEZERS. PROBES ARE TO BE INSTALLED BY THE CONTRACTOR.
- ALL WALK-IN COOLERS AND FREEZERS ARE FURNISHED BY THE MANUFACTURER AND INSTALLED BY THE MANUFACTURER.
- REFRIGERATION CONTRACTOR SHALL INSTALL AND PIPING ALL CONDENSER COILS AND HAND VALVES IN COOLERS AND FREEZERS.
- FOR ALL OVERHEAD REFRIGERATION PIPING, CONDENSER COILS, THE REFRIGERATION INSTALLATION CONTRACTOR SHALL PROVIDE AND INSTALL A DRAIN PAN DETAIL #4.
- REFRIGERATION CONTRACTOR SHALL SET REFRIGERANT VALVES TO 145°F AT HEAT RECLAIM TANKS. CUT-IN AT 145°F. CUT-OUT AT 145°F. THERMOSTATS IN TANKS TO 140°F. THERMOSTAT SHALL SET ELEMENT IN WATER. THERMOSTAT ELEMENTS IN TANKS TO 140°F.
- REFRIGERATION CONTRACTOR SHALL PROVIDE A SENSITIVE SENSOR UNDER EACH REFRIGERATION CONDENSER TO AVOID DIRECT CONTACT WITH CONDENSER PIPING WITH DUCTWORK. INSTALLER REFRIGERATION CONTRACTOR SHALL PROVIDE PLUMBING DETAIL #3 FOR REFRIGERATION DROPS AND HEAT PIPES TO RUN BACK TO CONDENSER.
- REFRIGERATION CONTRACTOR SHALL PROVIDE DETAIL #3 FOR REFRIGERATION DROPS AND HEAT PIPES TO RUN BACK TO CONDENSER.

**1 FREEZER FLOOR VAPOR BARRIER DETAIL**  
SCALE: 1" = 1'-0"

**2 HORN/STROBE AND SENSOR LOCATION**  
N.T.S.

**3 COOLER FLOOR DETAIL**  
SCALE: 1" = 1'-0"

**LEAK DETECTION SYSTEM SEQUENCE OF OPERATIONS**

THE SYSTEM IS BASED ON AN EMERSON MRDS-250 LEAK DETECTOR SYSTEM. THE SYSTEM PROVIDES CONTINUOUS MONITORING OF REFRIGERANT GAS LEVELS IN SEPARATE TEST ZONES.

THE ON-BOARD ANALYZER WILL TRIGGER AN ALARM IF ANY OF THE ZONES CONTAIN REFRIGERANT LEVELS HIGHER THAN THOSE SPECIFIED BY PUBLIX.

THE MRDS-250 IS CONNECTED TO THE EMERSON LEAK DETECTION SYSTEM LOCATED WITHIN THE MECHANICAL ROOM.

THE SYSTEM WILL BE PROGRAMMED FOR THREE TYPES OF ALARMS:

- LEAK (SMALL - 100 PPM)
- SPIEL (MEDIUM - 300 PPM)
- EVACUATION (LARGE - 500 PPM)

WALK-IN BOXES	MECHANICAL CENTER
AN ALARM OF 100 PPM OR LESS WILL TRIGGER NOTICE ON LMS PANEL.	AN ALARM OF 100 PPM OR LESS WILL TRIGGER THE ROOM EXHAUST FANS TO TURN ON.
AN ALARM OF 300 PPM WILL TRIGGER LIGHT AND HORN.	AN ALARM OF 300 PPM WILL TRIGGER LIGHT AND HORN.
AN ALARM OF 500 PPM WILL SHUT OFF POWER TO THE REFRIGERATION RACKS.	AN ALARM OF 500 PPM WILL SHUT OFF POWER TO THE REFRIGERATION RACKS.

**PERMISSIBLE REFRIGERANT QUANTITY PER ASHRAE 34**

REFRIGERANT TYPE	CLASSIFICATION	REFRIGERANT PER 1000 CU. FT. OCCUPANCY	TYPE OF SYSTEMS	PROBABILITY OF SYSTEMS
448A	A1	24.0	DIRECT	HIGH
REFRIGERANT ALLOWANCE	REFRIGERANT ALLOWANCE	REFRIGERANT ALLOWANCE	REFRIGERANT ALLOWANCE	REFRIGERANT ALLOWANCE
448A	22,095 LBS	1,200 LBS	600 LBS	

**HEAT RECLAIM SCHEDULE**

REFRIGERATION UNIT	USAGE	HEAT RECLAIM AVAILABLE - MBH
1	HR TANK 1 & 2	137.7
2	AC-1	305.3

**LEGEND**

- REFRIGERATION SYSTEM NUMBER
- ICE MACHINE
- SELF-CONTAINED CASE
- FALSE COLUMN DROP
- 24V HORN/STROBE SUPPLIED BY PUBLIX, INSTALLED & WIRED BY ELECTRICAL CONTRACTOR. SEE DETAIL SHEET E-4.
- 24V REFRIGERATION LEAK DETECTOR WITH 0-500 PPM BY PUBLIX INSTALLED & WIRED BY ELECTRICAL CONTRACTOR.
- TEMPERATURE PROBE (LOW VOLTAGE, FIELD INSTALLED)
- SOLENOID BY R.C.
- CASE CONTROLLER FIELD MOUNTED ON WALK-IN BOX FACE PANEL. SEE ELECTRICAL PLANS FOR SPECIFIC REQUIREMENTS.
- CASE CONTROLLER FACTORY INSTALLED AND FULLY PRE-WIRED IN REFRIGERATED CASE BY CASE MANUFACTURER.
- LIQUID LINE SOLENOID VALVE FOR LEAK DETECTION SHUT-OFF FIELD MOUNTED ON TOP OF WALK-IN BOX.
- SUCTION LINE SOLENOID VALVE FOR LEAK DETECTION SHUT-OFF FIELD MOUNTED ON TOP OF WALK-IN BOX.
- WEATHER PROOF

NOTE: ELECTRICAL CONTRACTOR TO INSTALL & WIRE MRDS FROM EACH WALK-IN BOX TO LEAK DETECTOR CONTROL PANEL IN MECHANICAL CENTER.

PLOT DATE:  
25 AUG 2017

REVISION DATA:

1637  
PUBLIX @ LAKE CROSSING  
PLATT SPRINGS RD & HWY 6  
LEXINGTON, LEXINGTON, SC

**45.92**  
08/21/2017  
SIENNA - LITE

**REFRIGERATION FLOOR PLAN**

SCALE: 1/8" = 1'-0"

**R-1.1**

Original Plans

WWW.LDOnline.com