



**LEGEND**

- AC HEAT RECLAIM SUPPLY LINE
- AC HEAT RECLAIM RETURN LINE
- REFRIGERATION SYSTEM NUMBER
- SELF-CONTAINED CASE
- FALSE COLUMN DROP
- 24V HORN/STROBE SUPPLIED BY PUBLIX, INSTALLED & WIRED BY ELECTRICAL CONTRACTOR. SEE DETAIL SHEET E-4a
- 24V REFRIGERATION MILDLS LEAK DETECTOR WITH DE W/ER BY PUBLIX, INSTALLED & WIRED BY ELECTRICAL CONTRACTOR.
- TEMPERATURE PROBE (LOW VOLTAGE, FIELD INSTALLED)
- SOLENOID BY V.C.
- DRELL CONTROL PANEL WITH 1 CASE CONTROL BOARD, FIELD INSTALLED AND WIRED.
- DRELL CONTROL PANEL WITH 2 CASE CONTROL BOARDS, FIELD INSTALLED AND WIRED.
- LIQUID LINE SOLENOID VALVE FOR LEAK DETECTION SHUT-OFF FIELD MOUNTED ON TOP OF WALK-IN BOX.
- SUCTON LINE CHECK VALVE FOR LEAK DETECTION SHUT-OFF FIELD MOUNTED ON TOP OF WALK-IN BOX.
- WEATHER PROOF

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

**LEAK DETECTION SYSTEM SEQUENCE OF OPERATIONS**

THE SYSTEM IS BASED ON AN EMERSON MILDLS-250, FOR R-488A OR MILDLS-CO<sub>2</sub> FOR R-744, LEAK DETECTION 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 MILDLS-250 OR MILDLS-CO<sub>2</sub> IS CONNECTED TO THE EMERSON LEAK DETECTION SYSTEM LOCATED WITHIN THE MECHANICAL ROOM.

THE SYSTEM WILL BE PROGRAMMED FOR THREE TYPES OF ALARMS FOR BOTH REFRIGERANTS:

WALK-IN BOXES	MECHANICAL CENTER
AN ALARM OF 10,000 PPM OR LESS WILL TRIGGER AN ALARM ON THE EMERSON MILDLS-250.	BASED ON THE ABOVE CRITERIA ABOVE FOR R-488A AND R-744.
AN ALARM OF 20,000 PPM WILL TRIGGER LIGHT AND HORN.	A LEAK WILL TRIGGER THE ROOM EXHAUST FANS TO TURN ON.
AN ALARM OF 30,000 PPM WILL TRIGGER LIQUID LINE SOLENOIDS, SHUT DOWN OF REFRIGERANT TO CIRCUIT.	A SPILL WILL TRIGGER LIGHT AND HORN. AN EVACUATION WILL SHUT OFF POWER TO THE REFRIGERATION RACKS.

**PERMISSIBLE REFRIGERANT QUANTITY PER ASHRAE 34 (STORE)**

BUILDING AREA:	48,869	SC. FT.		
AVERAGE INTERIOR BUILDING HEIGHT:	24'-6"			
BUILDING VOLUME:	1,197,291	CU. FT.		
REFRIGERANT TYPE	CLASSIFICATION	REFRIGERANT PER CU. FT. OCCUPATION	TYPE OF SYSTEM	PROBABILITY OF SYSTEMS
R-488A	A1	4.8	DIRECT	HIGH
REFRIGERANT TYPE	ALLOWANCE	TOTAL QUANTITY	REFRIGERANT IN LARGEST RACK	
R-488A	195.0 LBS	950 LBS	950 LBS	

**PERMISSIBLE REFRIGERANT QUANTITY PER ASHRAE 34 (MECH CENTER)**

BUILDING AREA:	699.0	SC. FT.		
AVERAGE INTERIOR BUILDING HEIGHT:	10'-0"			
BUILDING VOLUME:	6,995	CU. FT.		
REFRIGERANT TYPE	CLASSIFICATION	REFRIGERANT PER CU. FT. OCCUPATION	TYPE OF SYSTEM	PROBABILITY OF SYSTEMS
R-488A	A1	24.6	DIRECT	HIGH
REFRIGERANT TYPE	ALLOWANCE	TOTAL QUANTITY	REFRIGERANT IN LARGEST RACK	
R-488A	172.5 LBS	120 LBS	120 LBS	

**HEAT RECLAIM SCHEDULE**

REFRIGERATION UNIT	USAGE	HEAT RECLAIM AVAILABLE - MBH
2	H/R TANK 1 & 2	722.5
2	AC-1	506.8

**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

REFRIGERATION FLOOR PLAN

As indicated

**R1.1**

