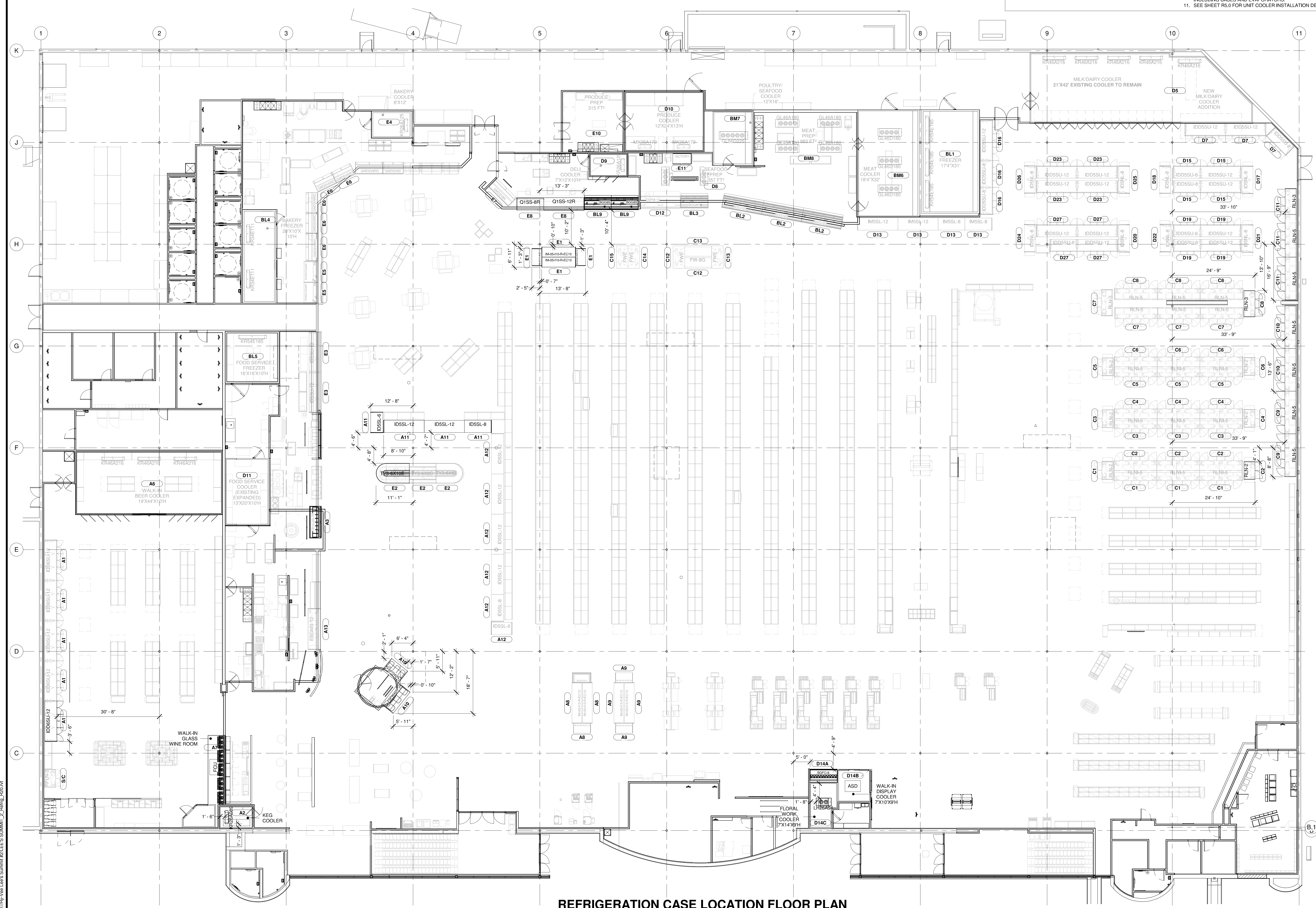


GENERAL NOTES

- SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUDS, DEFROST DATA, AND WIRING DIAGRAMS.
- REFRIGERATION CONTRACTOR RESPONSIBLE FOR SETTING ALL DIMENSIONED REFRIGERATED AND NON-REFRIGERATED CASES, SALAD BARS, HOT CASES, SELF-CONTAINED, ICE MACHINES, ETC.
- WHEN CONFLICTS WITH UNDERGROUND STUB OCCURS, THE REFRIGERATION CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR.
- CASE SUPPORTS SHALL NOT BE MODIFIED WITHOUT PRIOR APPROVAL.
- REFRIGERATION CONTRACTOR SHALL INSTALL AND/OR RELOCATE AS REQUIRED TO FACILITATE CASE INSTALLATION.
- FOLLOW ALL CASE MANUFACTURER JOINING INSTRUCTIONS.
- CASES SHALL BE INSTALLED LEVEL, STRAIGHT AND TRUE UNLESS OTHERWISE INDICATED.
- REFRIGERATION CONTRACTOR SHALL INSPECT CASES WHEN THEY ARRIVE. NOTE ANY DAMAGE WITH FREIGHT CARRIER AT THE END TIME OF DELIVERY AND NOTIFY THE GENERAL CONTRACTOR.
- REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR PROTECTING CASES FROM DELIVERY UNTIL OFFICIAL TURN OVER DATE.
- REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL EQUIPMENT TAGS ON ALL PIECES OF REFRIGERATION INCLUDING CASES AND EVAPORATORS.
- SEE SHEET R0.0 FOR UNIT COOLER INSTALLATION DETAILS.

REVISION
1 2020 PRODUCE CASE REMODEL 08/26/2020

ENGINEER SEAL
SHANNAH
EITER
NUMBER
E2001000891
Date
2020.10.23
11:39:07 -05'00'



REFRIGERATION CASE LOCATION FLOOR PLAN
SCALE: 3/32" = 1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

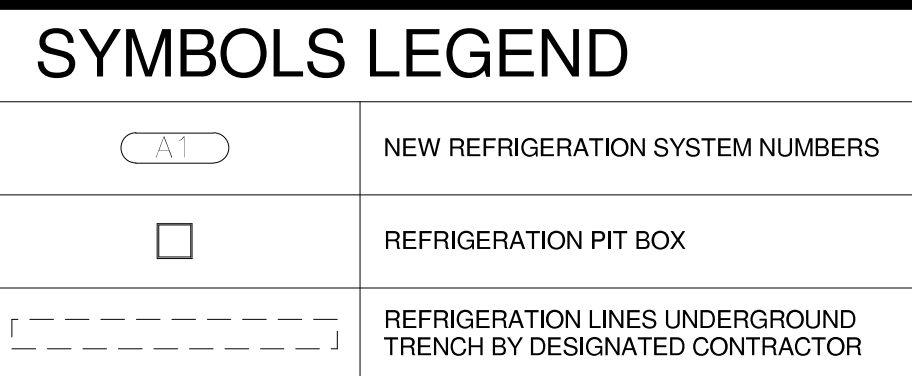
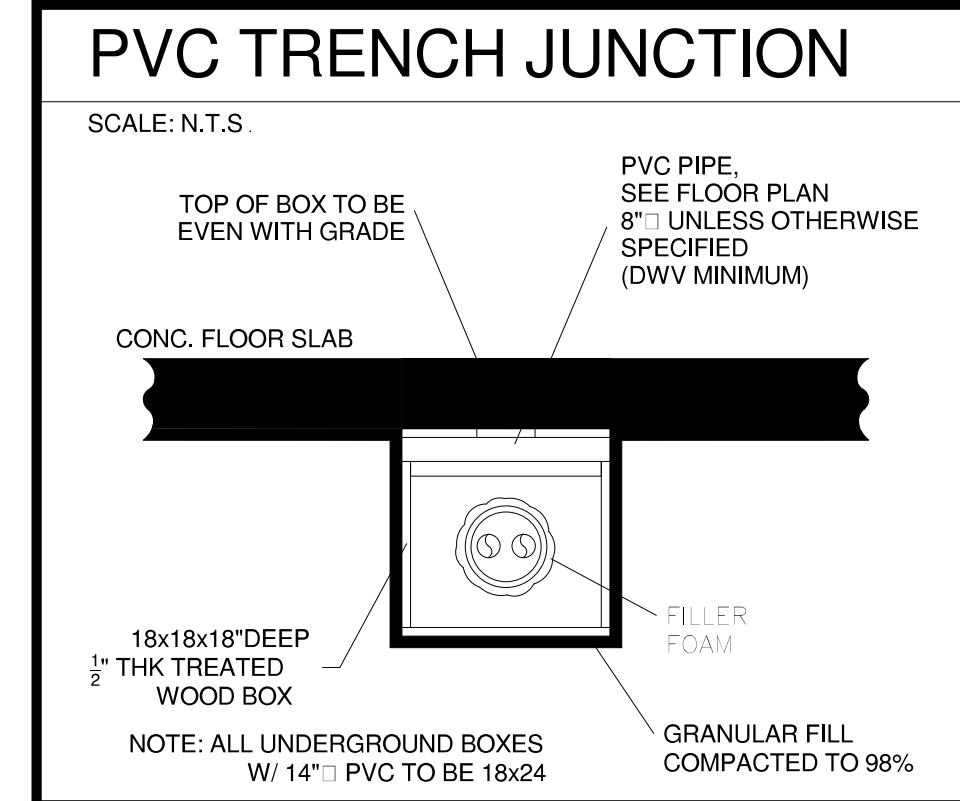
LOCATION
LEE'S SUMMIT #2, MO

HY-VEE INC.
5820 WESTTOWN PARKWAY
WEST DES MOINES, IOWA 52266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2555

REFRIGERATION CASE LOCATION PLAN

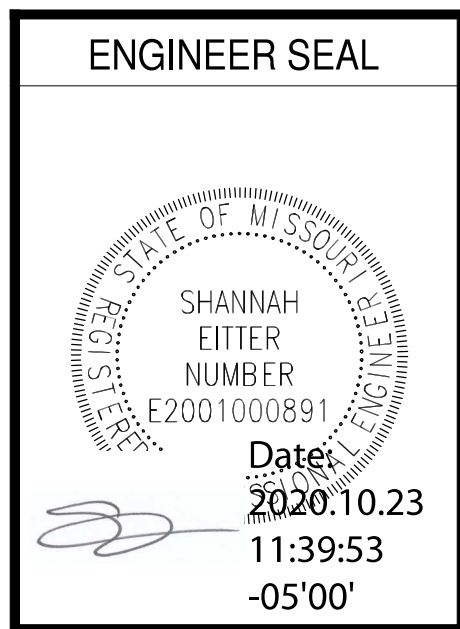
DRAWN: PSC DATE: 11/06/2017
SCALE: 3/32" = 1'-0" JOB NUMBER: 95954
SHEET: R0

BM 360-Hy-Vee Lee's Summit #2, Lee's Summit #2, R1.0.dwg



- GENERAL NOTES**
- SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
 - SEE PLUMBING DRAWINGS FOR LOCATION OF UNDERGROUND AND OVERHEAD PLUMBING PIPING AND FLOOR DRAINS.
 - TOP OF PVC PULL TUBES @ -14" AFF SEE SHEET METAL SHOP DRAWINGS FOR DETAILED LOCATION/ELEVATION DIMENSIONS.
 - SEE ARCHITECTURAL WALK-IN DRAWINGS FOR UNDER FLOOR INSTALLATION DETAILS BELOW FREEZERS.
 - REFRIGERATION CONTRACTOR TO READ ALL REFRIGERATION DRAWINGS INCLUDING REFRIGERATION ELECTRICAL SHEETS.
 - ALL RECEIVER PRESSURE RELIEF VALVE PIPING TO BE INSTALLED BY REFRIGERATION CONTRACTOR PER GOVERNING MECHANICAL CODES.
 - REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL ALL REFRIGERATION CONDENSER AND CONDENSING UNIT PITCH POCKETS. SEE R3.0 FOR DETAIL.
 - REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL GOVERNING CODES INCLUDING ADOPTED STATE ENERGY CODES.
 - FLOOR CUTS MADE ON EXISTING TERRAZZO AND POLISHED CONCRETE FLOORS SHALL BE MADE AT RIGHT ANGLES TO THE STRUCTURAL GRID.
 - THE REFRIGERATION CONTRACTOR SHALL COORDINATE ALL UNDERGROUND STUB UP LOCATIONS WITH THE PLUMBING AND ELECTRICAL CONTRACTOR. POTENTIAL CONFLICTS SHALL BE RESOLVED PRIOR TO SLAB POUR.
 - ALL REFRIGERATED LIQUID LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION. SUCTION LINES CONNECTED TO LOW TEMPERATURE HEADERS SHALL BE INSULATED 1" ARMAFLEX MINIMUM. SUCTION LINES CONNECTED TO MEDIUM TEMPERATURE HEADERS SHALL BE INSULATED 1/2" ARMAFLEX MINIMUM. INSULATION ON ALL LINES 7/8" AND LARGER SHALL BE MITRED. DO NOT PULL INSULATION AROUND ELBOWS. ALL JOINTS SHALL BE GULDED.
 - REFRIGERATION UNDERGROUND PIT BOXES, PVC AND PIPING SUPPLIED BY REFRIGERATION CONTRACTOR.
 - PREMANUFACTURED PIT BOXES ARE ACCEPTABLE ON AN INDIVIDUAL BASIS. VERIFY MANUFACTURER AND TYPE PRIOR TO INSTALLATION.

REVISION		CONSTRUCTION
1	2020 PRODUCE CASE REMODEL	AS NOTED ON P&HS REVIEW
		BY: LEE'S SUMMIT, MISSOURI



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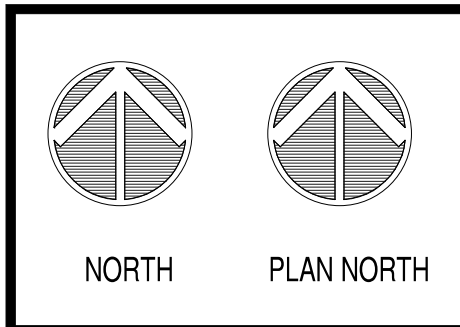
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NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the architect and our customer with store layout and its operating requirements only. Hussmann assumes no further responsibility. All specifications involving refrigeration equipment and its piping are subject to change without notice. The use of this drawing for structural or architectural purposes is not authorized. It is the responsibility of the Architect, Structural, Electrical and Mechanical Engineers to verify and coordinate accordingly. All dimensions and integrations the piping and contractors at the job site and insure that installations conform to specifications and all applicable codes.

LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2555

Hy-Vee
EMPLOYEE OWNED

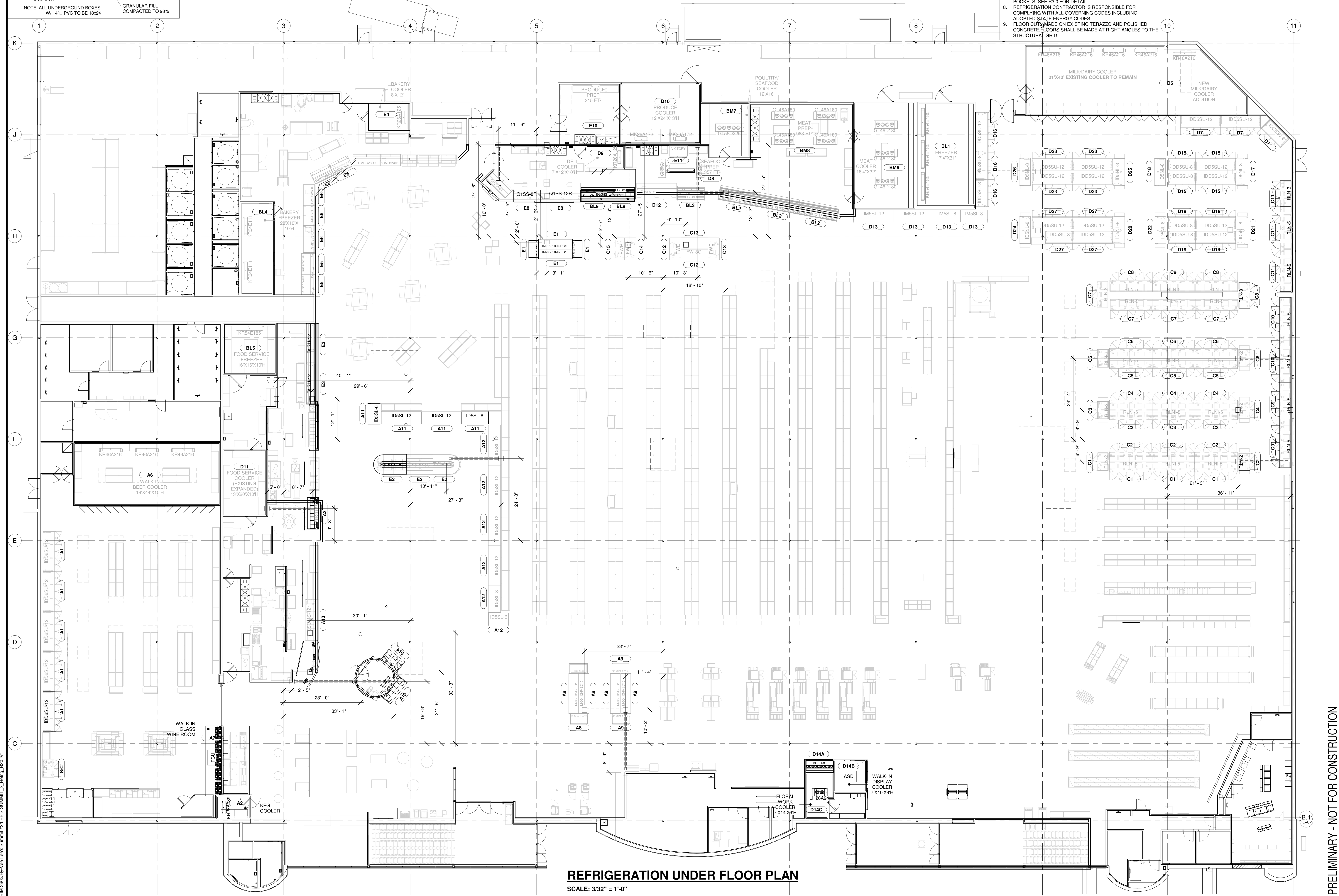


REFRIGERATION UNDER FLOOR PLAN

R1.0

DRAWN: PSC
SCALE: 3/32" = 1'-0"
SHEET:

DATE: 11/06/2017
JOB NUMBER: 95954



BM 360-Hy-Vee Lee's Summit #2, Lee's Summit #2, R2.0.dwg

SYMBOLS LEGEND

	NEW REFRIGERATION SYSTEM NUMBERS
	REFRIGERATION PIT BOX
	REFRIGERATION LINES UNDERGROUND TRENCH BY DESIGNATED CONTRACTOR
	OVERHEAD PIPING
	FLOOR OR CASE PIPING

GENERAL NOTES

- SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUDS, DEFROST DATA, AND WIRING DIAGRAMS.
- SEE PLUMBING DRAWINGS FOR LOCATION OF UNDERGROUND AND OVERHEAD PLUMBING PIPING AND FLOOR DRAINS.
- TOP OF PVC PULL TUBES @ -14" AFF SEE SHEET METAL SHOP DRAWINGS FOR DETAILED LOCATION/ELEVATION DIMENSIONS.
- SEE ARCHITECTURAL WALK-IN DRAWINGS FOR UNDER FLOOR INSTALLATION DETAILS BELOW FREEZERS.
- REFRIGERATION CONTRACTOR TO READ ALL REFRIGERATION DRAWINGS INCLUDING REFRIGERATION ELECTRICAL SHEETS. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL WORK CALLED OUT ON ALL REFRIGERATION RELATED DRAWINGS.
- ALL RECEIVER PRESSURE RELIEF VALVE PIPING TO BE INSTALLED BY REFRIGERATION CONTRACTOR PER GOVERNING MECHANICAL CODES.
- REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL ALL REFRIGERATION CONDENSER AND CONDENSING UNIT PITCH POCKETS. SEE R3.1 FOR DETAIL.
- ALL REFRIGERATION PIPING INSTALLED ON THE TOPS OF CASES SHALL BE INSTALLED IN SUCH A MANNER AS TO KEEP IT FROM BEING SEEN FROM THE SALES FLOOR. SEE R5 SHEETS FOR TOP-PIPED DETAIL.
- ALL PIPING HANGER WIDTHS TO BE NO GREATER THAN 48" IN OPEN CEILING APPLICATIONS. MULTIPLE HANGERS INSTALLED SIDE BY SIDE TO HAVE 12" SPACING MINIMUM BETWEEN THEM. SEE R5 SHEETS FOR HANGER DETAILS.
- DO NOT RUN PIPING UNDER SKYLIGHTS OR THROUGH ARCHITECTURAL ELEMENTS INCLUDING MURALS OR DROPPED CEILINGS.
- ALL PIPE INSULATION INSTALLED OVER SALES FLOOR SHALL BE WHITE JACKETED.

REVISION		
1	2020 PRODUCE CASE REMODEL	08/26/2020

ENGINEER SEAL



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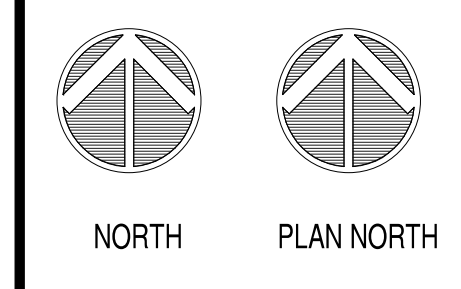
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(800) 580-4113 Fax

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LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 52086
TELEPHONE: (515) 267-2800
FAX: (515) 267-2555



REFRIGERATION
PIPING FLOOR
PLAN

DRAWN: PSC	DATE: 11/06/2017
SCALE: 3/32" = 1'-0"	JOB NUMBER: 95954

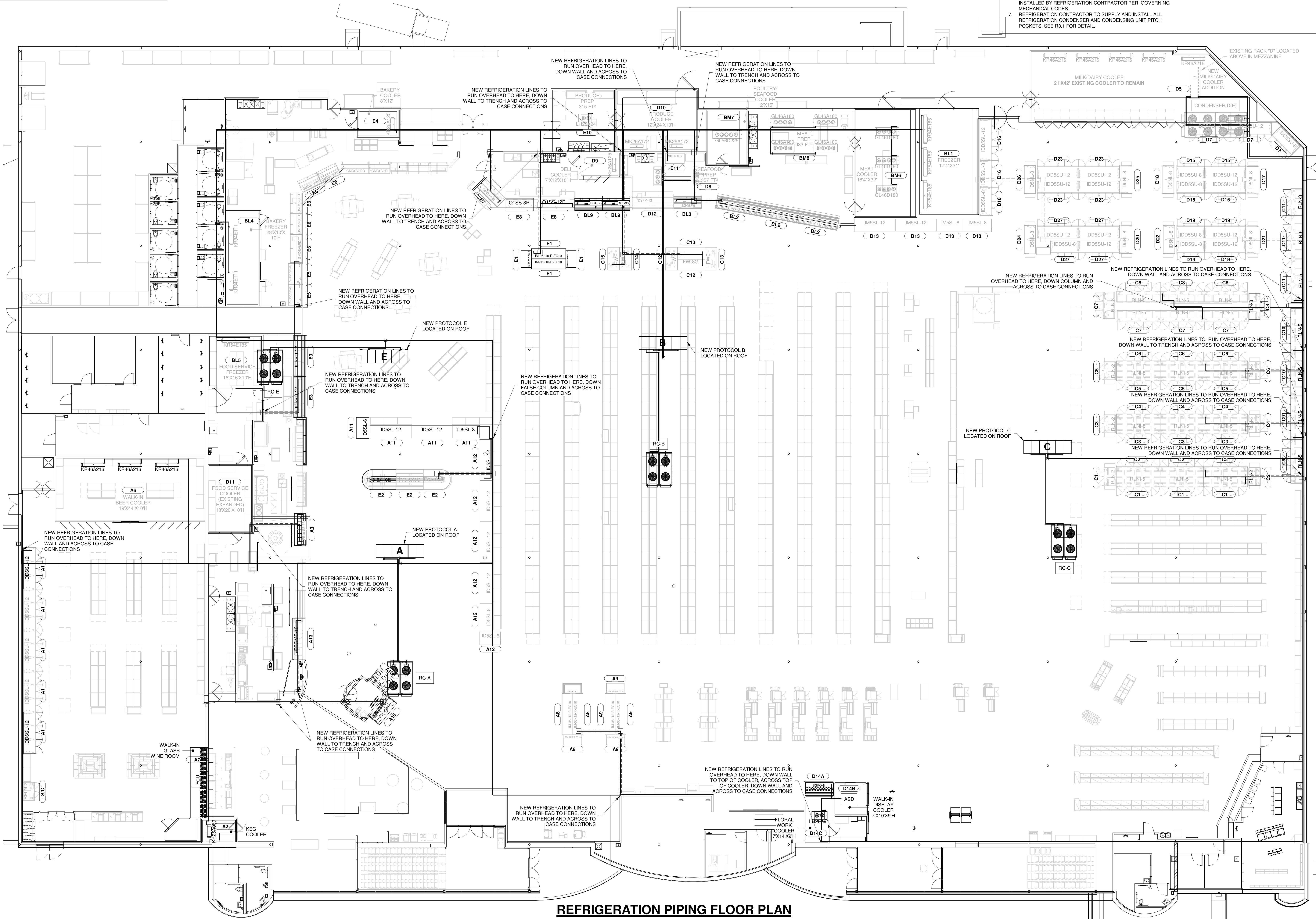
SHEET:

R2.0

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION PIPING FLOOR PLAN

SCALE: 3/32" = 1'-0"



SYMBOLS LEGEND

	NEW REFRIGERATION SYSTEM NUMBERS
	HUB DRAIN
	FLOOR SINK
	CONDENSATE PIPING

GENERAL NOTES

- SEE R5.0 FOR UNIT COOLER INSTALLATION AND DRAIN DETAILS. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR CONDENSATE DRAIN INSTALLATION AND SHALL BE DULY LICENSED FOR SUCH INSTALLATION.
- PROVIDE CONDENSATE DRAINS PIPING FROM CASE DRAIN TO INDICATED FLOOR SINK. SLOPE PIPING TO DRAIN. PROVIDE 90° ELBOW AT TERMINATION POINT AND PROVIDE AIR GAP AS REQUIRED BY REQUIRED BY CODE.
- CASE CONDENSATE PIPING SHALL BE FULL SIZE SCHEDULE 40 PVC PIPING. CLEANOUTS SHALL BE INSTALLED WHERE PIPING IS INACCESSIBLE.
- EVAPORATOR CONDENSATE PIPING SHALL BE FULL SIZE TYPE M COPPER. SEE R5.0 FOR DETAILS.
- CONDENSATE DRAINS OF DIFFERENT REFRIGERATION SYSTEMS SHALL NOT BE CONNECTED WITHOUT A TRAP SEPARATING THE TWO SYSTEMS.
- DO NOT PUT TRAPS IN SERIES.
- ALL CONDENSATE PIPING SHALL BE TESTED FOR LEAKS PRIOR TO INSTALLING HEAT TAPE, INSULATION OR CASE TRIM.
- CONDENSATE PIPING SHALL BE INCREASED BY ONE SIZE AT THE LOCATION WHERE THREE DRAINS ARE CONNECTED.
- CONDENSATE PIPING SHALL INCREASE TWO SIZES AT THE LOCATION WHERE SIX DRAINS ARE TIED TOGETHER.
- MEAT PREP EVAPORATOR CONDENSATE DRAINS REQUIRED 3/4" ARMAFLEX INSULATION COVERED BY WHITE PVC JACKETING. ALL OTHER DRAINS TO BE COVERED WITH JACKETING AS REQUIRED BY CODE OR IF VISIBLE FROM SALES FLOOR.

REVISION	DATE	BY
1	2020.10.23	08/20/2020

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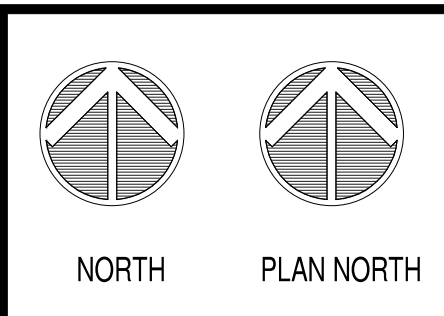
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LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTTOWN PARKWAY
WEST DES MOINES, IOWA 52256
TELEPHONE: (515) 267-2800
FAX: (515) 267-2355

HyVee
EMPLOYEE OWNED



REFRIGERATION CONDENSATE PIPING FLOOR PLAN

DRAWN: PSC	DATE: 11/06/2017
SCALE: 3/32" = 1'-0"	JOB NUMBER: 95954
SHEET:	

R2.1

REFRIGERATION CONDENSATE FLOOR PLAN

SCALE: 3/32" = 1'-0"

BM 360-HyVee Lee's Summit #2, LEE'S SUMMIT #2, Refrig_R201.rvt

BM 360-Hy-Vee Lee's Summit #2, Lee's Summit 2, R30.rvt

HUSSMANN

PROJECT:

HY-VEE LEE'S SUMMIT #2
JOB #:

DATE: 10/22/2020

ROOF EQUIPMENT SCHEDULE

MARK	DESCRIPTION	HUSSMANN / MODEL	ELECTRICAL REQUIREMENTS (MCA)	ELECTRICAL REQUIREMENTS (MOPD)	UNIT WEIGHT (LBS)	DIMENSIONS	NOTES
RACKS A THROUGH C	EXISTING RACK	DELETE					
CONDENSERS A THROUGH C	EXISTING CONDENSER	DELETE					
ALL EXISTING CONDENSING UNITS	EXISTING CONDENSING UNIT	DELETE					
RACK D	EXISTING RACK	REUSE					
CONDENSERS D	EXISTING CONDENSER	REUSE					
PROTOCOL A	PROTOCOL A	OLP6FR	307 AMP/208V/3PH	350 AMP/208V/3PH	2,500	166"L x 46"W x 34"H	
PROTOCOL B	PROTOCOL B	OLP6FR	352 AMP/208V/3PH	400 AMP/208V/3PH	2,500	166"L x 46"W x 34"H	
PROTOCOL C	PROTOCOL C	OLP6FR	377 AMP/208V/3PH	400 AMP/208V/3PH	2,500	166"L x 46"W x 34"H	
REMOTE PANEL C	REMOTE PANEL FOR PROTOCOL C		135 AMP/208V/3PH	150 AMP/208V/3PH			
PROTOCOL E	PROTOCOL E	OLP6FR	189 AMP/208V/3PH	200 AMP/208V/3PH	2,500	166"L x 46"W x 34"H	
RC-A	PROTOCOL CONDENSER A	LAVF 22410	INCLUDED IN PROTOCOL		2,600	112"L x 90.5"W x 54"H	
RC-B	PROTOCOL CONDENSER B	LAVF 22410	INCLUDED IN PROTOCOL		2,600	112"L x 90.5"W x 54"H	
RC-C	PROTOCOL CONDENSER C	LAVF 22410	INCLUDED IN PROTOCOL		2,600	112"L x 90.5"W x 54"H	
RC-E	PROTOCOL CONDENSER E	LAVF 22310	INCLUDED IN PROTOCOL		2,600	112"L x 90.5"W x 54"H	
VFD-A	VFD FOR CONDENSER "A"						
VFD-B	VFD FOR CONDENSER "B"						
VFD-C	VFD FOR CONDENSER "C"						
VFD-E	VFD FOR CONDENSER "E"						

HUSSMANN

PRQJECT: HY-VEE LEE'S SUMMIT #2
JOB #: 0

DATE: 8/25/2020

REFRIGERATION UNIT COOLER SCHEDULE (NOTE 1)

FOR UNIT COOLERS NOT ON PROTOCOLS

MARK	DESCRIPTION	KRACK MODEL	FAN ELECTRICAL REQUIREMENTS TOTAL (MCA) (NOTE 4)	ELECTRIC DEFROST ELECTRICAL REQUIREMENTS (MCA)
	PRODUCE COOLER	(2) MK26A172	18 AMP/115V/1PH	
	SEAFOOD PREP	(2) QL36A135	1.8 AMP/115V/1PH	
	DAIRY COOLER	(5) KR46A216	16 AMP/115V/1PH	
	FLORAL COOLER	LH26A94	1.8 AMP/115V/1PH	
	DELI COOLER	KR26A125	1.6 AMP/115V/1PH	

- ALL UNIT COOLERS TO BE STANDARD TEXTURED ALUMINUM FINISH UNLESS NOTED OTHERWISE
- NOT USED
- PROVIDE UNIT COOLER WITH A WHITE FINISH
- ELECTRICAL LOADS FED THROUGH STORE PANELS UNLESS NOTED OTHERWISE
- ELECTRICAL LOAD FED THROUGH REMOTE DEFROST PANEL

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW BY: 08/26/2020

ENGINEER SEAL

SHANNAH
EITR
NUMBER
E2001000891

Date:
2020.10.23
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LOCATION

LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2335

HyVee
EMPLOYEE OWNED

NORTH

PLAN NORTH

REFRIGERATION
SCHEDULES
AND MACHINE
ROOM LAYOUT

DRAWN: PSC
SCALE: 12" = 1'-0"
SHEET:

DATE: 11/06/2017
JOB NUMBER: 95954

R3.0

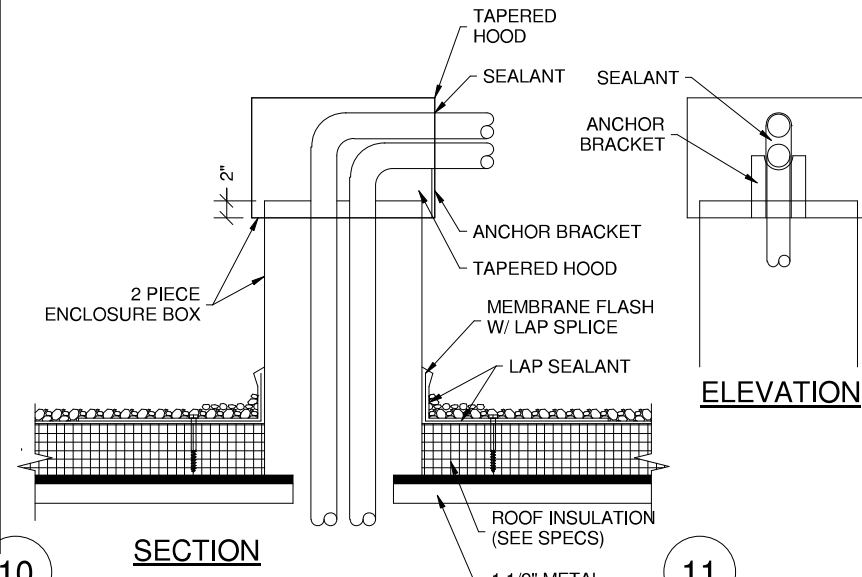
PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360/Hy-Vee Lee's Summit #2, Lee's Summit #2, Lee's Summit #2, Planning_R20.rvt

GENERAL NOTES

1. SIZE AND LOCATION OF ROOF TOP EQUIPMENT IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO COORDINATE THE EXACT SIZE AND LOCATION OF EQUIPMENT CURBS AND ASSOCIATED ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
2. SEE RS SHEETS FOR ROOF CURB DETAILS.

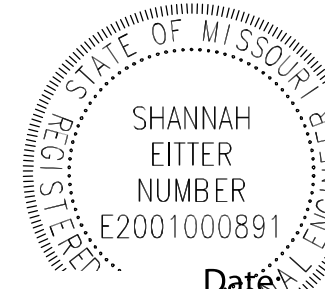
PITCH POCKET DETAIL



REVISION

1 2020 PRODUCE CASE REMODEL 08/26/2020

ENGINEER SEAL



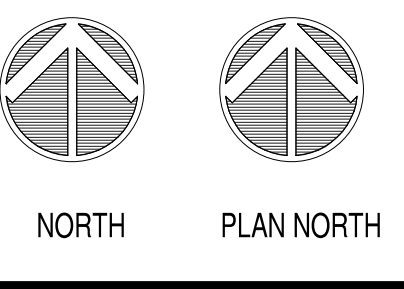
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LOCATION
LEE'S SUMMIT #2, MO



**REFRIGERATION
STRUCTURAL
COORDINATION**

DRAWN: PSC DATE: 11/06/2017
SCALE: 3/32" = 1'-0" JOB NUMBER: 95954

SHEET:
R3.1

REFRIGERATION STRUCTURAL COORDINATION

SCALE: 3/32" = 1'-0"

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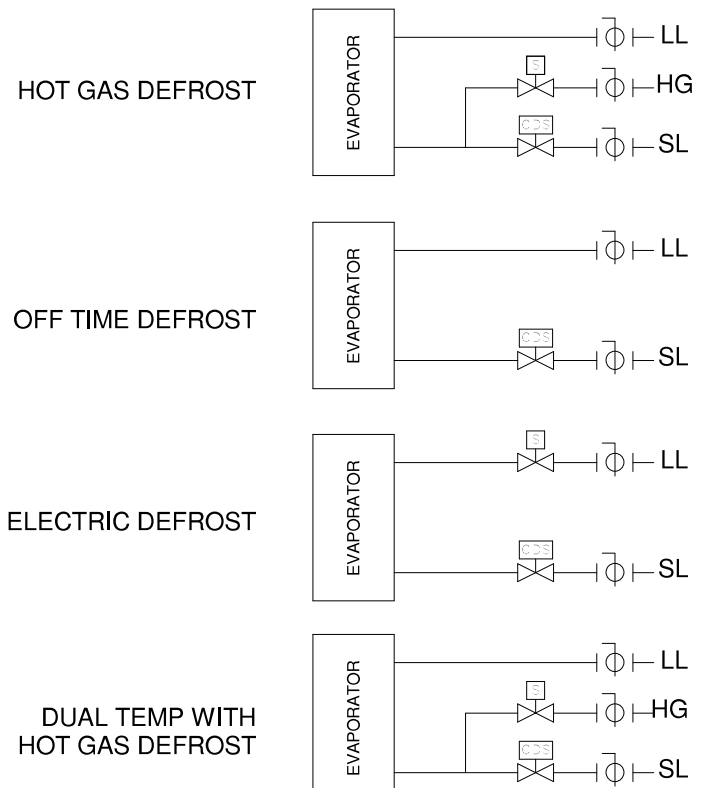
GENERAL SHEET NOTES

REVISION	DATE BY
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- THESE REFRIGERATION SCHEMATICS ARE FURNISHED ONLY AS A GUIDE TO ASSIST THE CUSTOMER AND ITS ARCHITECT. INSTALLING CONTRACTOR AND MAINTENANCE CONTRACTOR WITH THE OPERATOR MUST REQUIREMENTS OF THE LISTED REFRIGERATION EQUIPMENT.
- IT IS THE RESPONSIBILITY OF THE CUSTOMER OR THEIR ARCHITECT TO VERIFY THE ACCURACY OF ALL DIMENSIONS, COMPONENTS AND LINE SIZING WITH THE CONTRACTOR AT THE JOB SITE TO INSURE THAT ALL INSTALLATIONS CONFORM TO PROJECT SPECS AND APPLICABLE CODES.
- THESE SCHEMATICS SHOULD NOT BE USED FOR STRUCTURAL OR ARCHITECTURAL PURPOSES.
- FACTORY INSTALLED STUBS MAY DIFFER IN SIZE TO THOSE SHOWN ON SCHEMATICS. CONNECTIONS TO BE DETERMINED BY INSTALLER.

LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



ENGINEER SEAL



NOTE:

1. ALL ISOLATION & CONTROL VALVES ARE SUPPLIED BY HUSSMANN & FIELD INSTALLED UNLESS OTHERWISE NOTED.
2. REFRIGERATION OIL WILL BE SHIPPED LOOSE WITH RACKS/PROTOCOL FOR FIELD INSTALLATION. QUANTITY IS FOR EQUIPMENT ONLY. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR OIL REQUIRED TO FILL TRAPS, COATS LINES ETC.

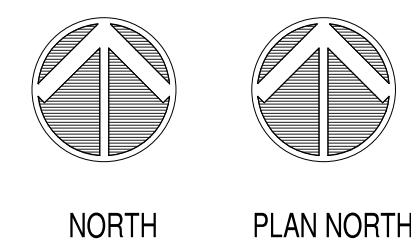
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NOTICE OF NONRESPONSIBILITY

All turning and electrical and refrigeration drawings are furnished as a guide only to the installer. The Customer with store fixtures and its operating requirements only. Hussmann assumes no further responsibility. All specifications involving refrigeration equipment and its operating are subject to change without notice. The use of this drawing for structural or architectural purposes is not authorized. It is the responsibility of the user to consult with the Mechanical Engineers to verify and coordinate accuracy of all dimensions and refrigeration line sizing with contractors at the job site and insure that installers

LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
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www.hy-vee.com

REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

DRAWN: PSC	DATE 11/06/2
SCALE: 12" = 1'-0"	JOB NUM 9595

R4.0

[illegible]

UNIT ACCESS.	YES	VENDOR/MODEL	UNIT ACCESS.	WM	KIT	VENDOR/MODEL	UNIT ACCESS.	KIT	VENDOR/MODEL
CSR (If Applied)	YTES	On this Rack.	EOL LINE BV	16WTF	7/8	ELECTRICAL ASSY		14PB	
OIL REGULATOR	28W	TRAXION	BV TO COND	200F	2 1/2 1/8	MECH DEFOIST TIMER			
CRANKCASE FILTER	NO		BV FIRM COND	200F	2 1/2 1/8	ELC DEFOIST PANEL			
SUCTION FILTER	SPW	SPORLAN STEEL	BV TO HCLM			DEF PANEL ELEC ASSY			
RACK ASSEMBLY	06SP		BV FRM HR			SINGLE PHSE PWR		01EK	
ALL	ALL		LIO DRIER ASSY	44WM	C19217GR	CONTROL POWER CONN		01PW	
RECEIVER	H532	STANDARD REG	LIO DRIER BYPASS			COMP TIME DELAY			Thru controller
RECEIVER ACK	02RA		DIFFERENTIAL VLV	52WM	LDR-20 2 1/8	HIGH PRESS CNTRL		70DP	
VIBRATION ISOL	07SS	PADS	DRIE NORM OPEN	NO		LOW PRESS CNTRL			
SAT MOD			LIO DRAIN REG (W/ht Cntrl)	34VF	A82 1/2 5/8 1 1/8C	OL FAILURE CNTRL			
OL RESERVOIR	96OR		REC- PRESS REG	59PF	A9 5/8	HR LOCKOUT			
SNIP LOOSE OIL	15PO	POE OIL	SURGE PIPING			HIGH CNTRL		07EC	
OIL SEPARATOR	97OF	SS68				BASIC ALARM KIT			
OIL FILTER	02WD	RFG 413	SPLIT SUCTION MODUL			HUSSMANN ALARM BOARD			
OIL COOLING			SUCT MAN INSUL	06SI		LIQUID LEVEL INDICATOR		01AN	Analog Horiz. Rec.
DISCH LINE SIZE	2 1/8	2 5/8 DISCH HDR	LIQUO MAN INSUL			ALARM BELL			
LIQUO LINE SIZE	2 1/8	3 1/8 LIQ HDR				CIRCUIT ORIENTATION		VSMP	VERT CKTS SPUN
SEAT RECL AM						CONTROLLER		NO	CPC INDIC
HR X OVER						PROGRAMMING		NO	No Programming
HR VOLT MOD						COND RELAY BRD		NO	AT CONDENSER
SPRL COND	55WN	16D178-SC	SUBCOOLER						
COMP METAL CAPS	NO		23 TXV (Part # & Model)			PRE-PURGE VALVE			
PAINT HEADS	NO		1/3 TXV (Part # & Model)			POST PURGE VALVES			
EQUALIZE OIL FLOATS	NO		Solenoid #1 (Part # & Model)			PUMP OUT SEPARATION		3	On 3RD Compressor
OIL PRESS DIFF VALVE	NO		Solenoid #2 (Part # & Model)						No Oil Ship Dry
WEEP HOLES	NO		Subcooler SPR Valve			FILL COMP/SEPAR W/OIL			

[illegible]

UNIT ACCESS.	KIT	VENDOR MODEL	UNIT ACCESS.	KIT	VENDOR MODEL	UNIT ACCESS.	KIT	VENDOR MODEL
CSR (If Applied)								
OIL REGULATOR								
CRANKCASE INTRS								
SUCTION FILTER								
RACK UNIT								
RACK ACCESS								
RECEIVER								
RECEIVER ACC								
VIBRATION ISOL								
SAT MOD								
OIL RESERVOIR								
SHIP LOOSE OIL								
OIL SEPARATOR								
OIL FILTER								
OIL COOLING								
DISCH LINE SIZE								
LIQUID LINE SIZE								
HEAT RECLAM								
HR X OVER								
HR VOLT MOD								
SPLIT COND								
COMP METAL CAPS								
PAINT HEADS								
EQUALIZE OIL FLOATS								
OIL PRESS DIFF VLV								
WEEP HOLES								

STORE: HY-VEE #2 LOCATION: LEE'S SUMMIT, MO										RACK 5D										COMPONENT MANUFACTURER						
QUOTE / JOB #: 95954										SPEC USED / DATE: 4/16/2002										SOLENOID VLV: BALL VALVE: MUELLER PP						
REMOISE FAN #1 DEFOIST FANS / EVAP										MECH NOTES PAGE 1 STORE DESIGN CONDITIONS										CHECK VALVE: 1 OF 1 MUELLER						
120V ELEC										AMBIENT TEMP: 100										DATE: 8/9/2002						
FAN	LT	AMP	SUP	AS	AMP	208V/1	208V/3	RHSR	SIZE	TYPE	TXV	EVGE	INSIDE TEMP-RIH: 75/55										BY: JHR			
1/1/1										ALTITUDE (FEET): 0										QUOTE: 95954						
1/1/1										COND. TEMP: 115										FILE:						
1/1/1										REFRIGERANT: R404										RACK PHYSICAL SPECS						
1/1/1										THR (BTU): 15.2										COPeland Scroll DIMEN: See Mech, Notes						
1/1/1										WGT (LBS): 2670										COMP TYPE: 208/3/50 WEIGHT: for Details						
1/1/1										CHG (LBS): 240										CNTRL VOLTY: 120/1/60 RECEIVER SPECS						
1/1/1										FPR: 8										COND VOLTY: 208/3/50 DIMEN: 11 1/2" x 12"						
1/1/1										DIM: 220"X96"X55"										CAP: 535						
1/1/1										FLA: 35.2 @ 200V										MCA: 16 297						
1/1/1										FNS: 2/4 850 RPM										MOPD: 20 350						
1/1/1										DAMPERS: 5/8"										FLA: 262						
1/1/1										FIN COAT:										CONTACTOR SQUARE D DIMEN:						
1/1/1										LEGS:										BREAKER SQUARE D WEIGHT:						
1/1/1										NOTES: 50% REDUCTION										NEMA / IP NEMA						
1/1/1										SUCTION GROUP: DL										DR DR DR DR DR DR DR DR						
1/1/1										COMPRESSOR: ZF08K4E										ZF24K4E ZF33K4E ZF48K4E ZF48K4E						
1/1/1										QUANTITY: 7										1 1 1 1 1 1 1						
1/1/1										COMPRESSOR ASSY: 53G/L										45G/L 21G/L 23G/L 47G/L 64G/L 64G/L						
1/1/1										COMPRESSOR HP: 3										7.5 8 10 13 15 15						
1/1/1										SUCTION TEMP: -23										-23 22 22 22 22						
1/1/1										SUBCOOLING TEMP:																
1/1/1										CAPACITY (BTU/H): 7994										22645 49190 63688 102057 117365 117365						
1/1/1										POWER (KW): 2,260										3,986 6,115 11,244 13,479 16,565 16,565						
1/1/1										HEAT OF REJ (BTU/H): 15706										43076 70061 122073 149559 172902 172902						
1/1/1										ECON SC CAP FAC:																
1/1/1										ECON SC CAP:																
1/1/1										ECON POWER FAC:																
1/1/1										ECON POWER:																
1/1/1										DEM COOL / LIQ INI: 99FZ										99FZ						
1/1/1										SUCTION HEADER:																
1/1/1										ACCUMULATOR:																
1/1/1										UNLOADER:																
1/1/1										SUCTION SIZE: 7/8										1 3/8 7/8 1 3/8 1 3/8 1 5/8 1 5/8						

[illegible]

Last Update of This Legend: 7/25/2002

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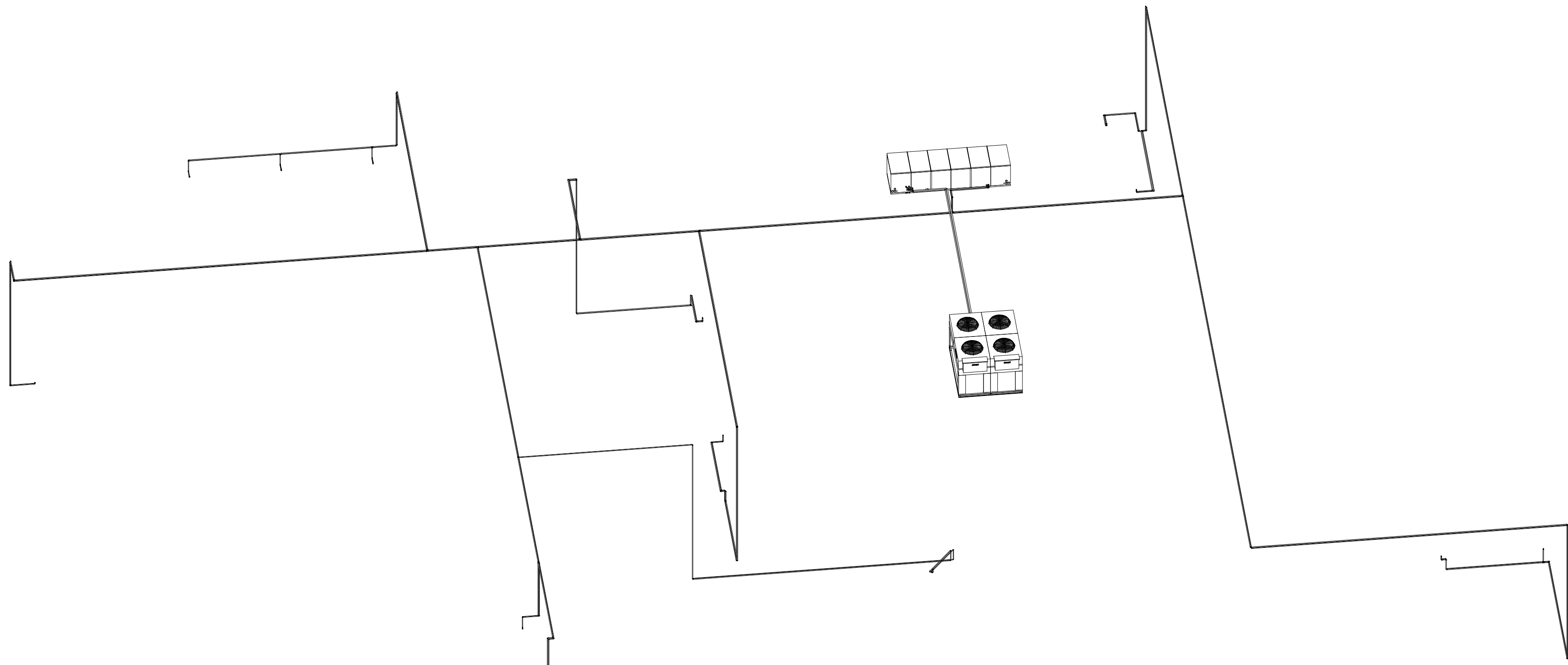
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Last Update of This Legend: 7/25/2002

BIM 360://Hy-Vee Lee's Summit #2/LEE'S SUMMIT_2_Refrig_R20.rvt

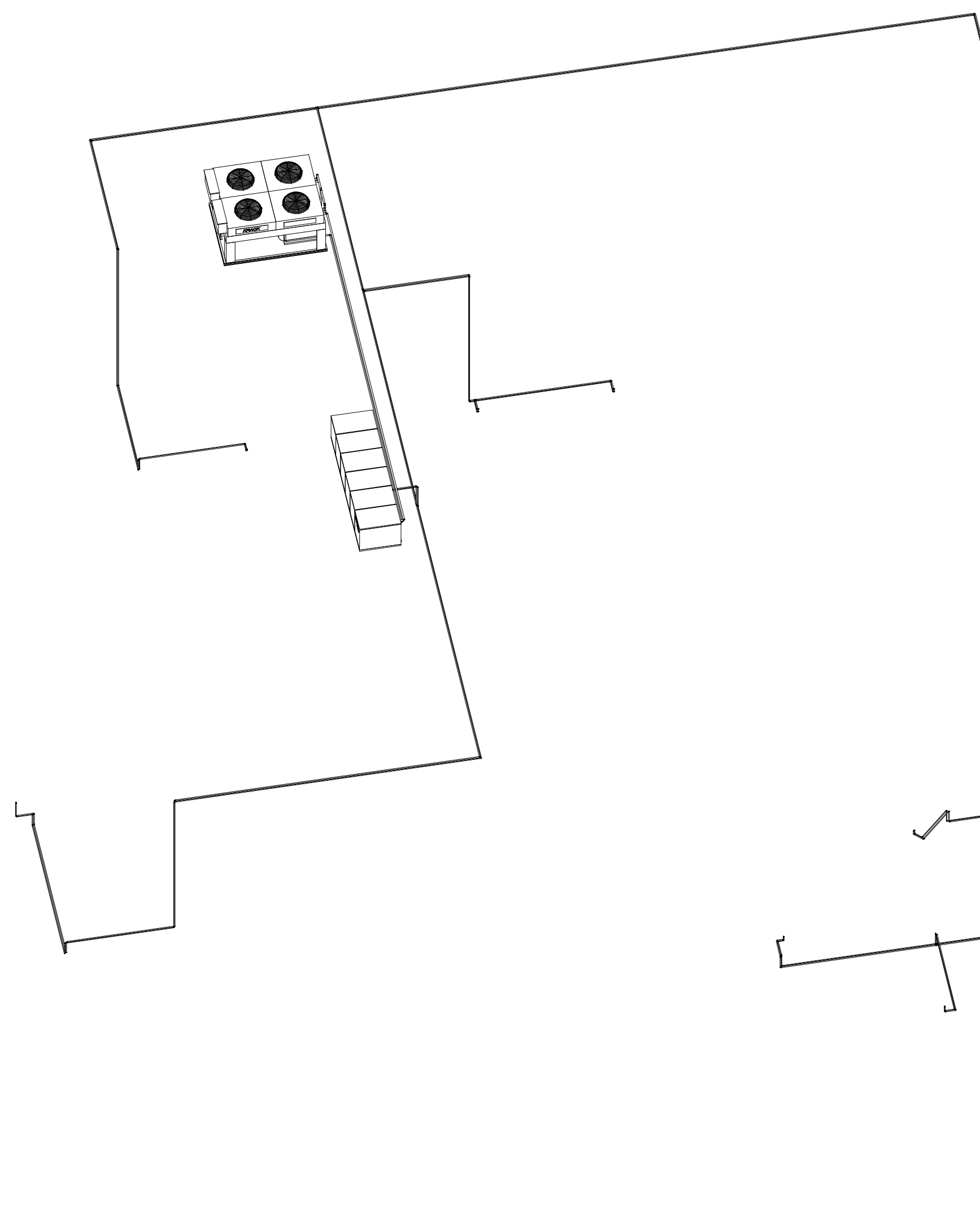
REFRIGERATION PROTOCOL "A" LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "E" LINE SIZING SCHEMATIC

SCALE: NTS

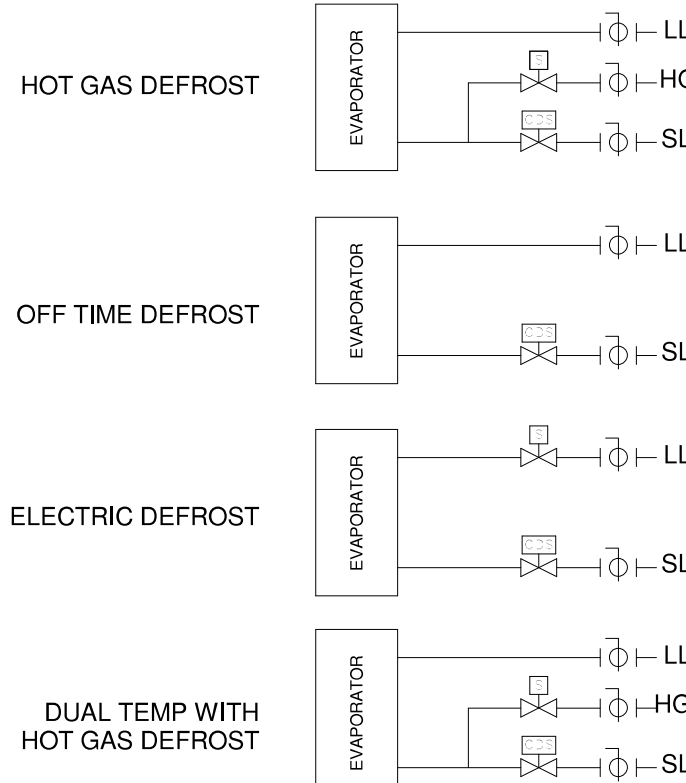


GENERAL SHEET NOTES

- THESE REFRIGERATION SCHEMATICS ARE FURNISHED ONLY AS A GUIDE TO ASSIST THE CUSTOMER AND ITS ARCHITECT. INSTALLING CONTRACTOR AND MAINTENANCE CONTRACTOR WITH THE OPERATING REQUIREMENTS OF THE LISTED REFRIGERATION EQUIPMENT.
- IT IS THE RESPONSIBILITY OF THE CUSTOMER OR THEIR ARCHITECT TO VERIFY THE ACCURACY OF ALL DIMENSIONS COMPONENTS AND LINE SIZING WITH THE CONTRACTOR AT THE JOB SITE TO INSURE THAT ALL INSTALLATIONS CONFORM TO PROJECT SPECS AND APPLICABLE CODES.
- THESE SCHEMATICS SHOULD NOT BE USED FOR STRUCTURAL OR ARCHITECTURAL PURPOSES.
- FACTORY INSTALLED STUBS MAY DIFFER IN SIZE TO THOSE SHOWN ON SCHEMATICS. CONNECTIONS TO BE DETERMINED BY INSTALLER.

LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



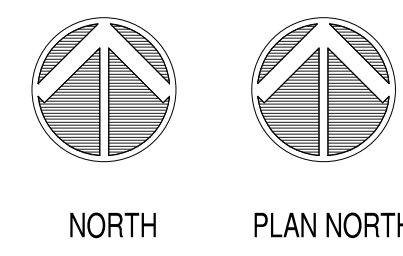
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SET POINT STANDARDS USED BY THE CONTROLS DEPARTMENT											
LOW TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MED TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
RACK											
KITCHEN FRZR	-5	3	18	KG	DAIRY CLR	34	4	60	0		
MAIN W/ FRZR	-10	2	20	KG	CHINESE CLR	36	3	45	0		
CHINESE FRZR	-5	2	45	E	BAKERY CLR	36	2	60	0		
BAKERY FRZR	-5	6	18	KG	SEAFOOD CLR	36	1	30	E		
PROTOCOL					PROD CLR	36	2	60	0		
KITCHEN FRZR	-5	2	45	E	PROD PREP	55	2	30	0		
MAIN W/ FRZR	-10	2	45	E	MEAT CLR	50	3	45	E		
CHINESE FRZR	-5	4	45	E	MEAT PREP	55	1	150	0		
BAKERY FRZR	-5	6	45	E	FLORAL CLR	34	3	40	0		
					SALAD BAR	36	1	30	0		
					BEER CLR	36	2	60	0		
					DELI CLR	34	2	60	0		
W/I = WALK-IN											
LT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
DSFM	31	3	46	O	CSX-EP, LEP, XLEP	31	2	30	0		
ESGMS, ESGSS	27	1	90	O	CSX-EP, LEP	31	2	30	0		
SMG, SMGV	24	1	70	O	CSX-EP, LEP	31	2	30	0		
SSGE	24	1	70	O	DSX, DSX-LEP	30	3	30	0		
RACK					DSX-ULEP	30	4	20	0		
RL SERIES - FF	-5	1	20	KG	DSX-ULEP	30	4	25	0		
RL SERIES - IC	-12	1	20	KG	DSX-ULEP	33	1	60	0		
PROTOCOL					DSX-ULEP	37	1	50	0		
RL SERIES - FF	-5	1	45	E	IMX-EP	32	6	20	0		
RL SERIES - IC	-12	1	45	E	IMX-EP	29	4	30	0		
					IMX-EP	30	4	30	0		
					PWWVE	34	4	45	0		
					QI-SS	26	4	30	0		
					RSHV-MF	24	4	40	0		
K = ICE CREAM FF = FROZEN FOOD											
DUAL TEMP CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	DUAL TEMP CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
LT					MT						
FW, FWE	-12	1	60	E	FW, FWE	24	1	60	E		
FWG, FWEG	-12	1	60	E	FWG, FWEG	24	1	60	E		
DEFROST TYPE: E = ELECT KG = KOOL GAS O = OFFTIME											

LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2555

EMPLOYEE OWNED



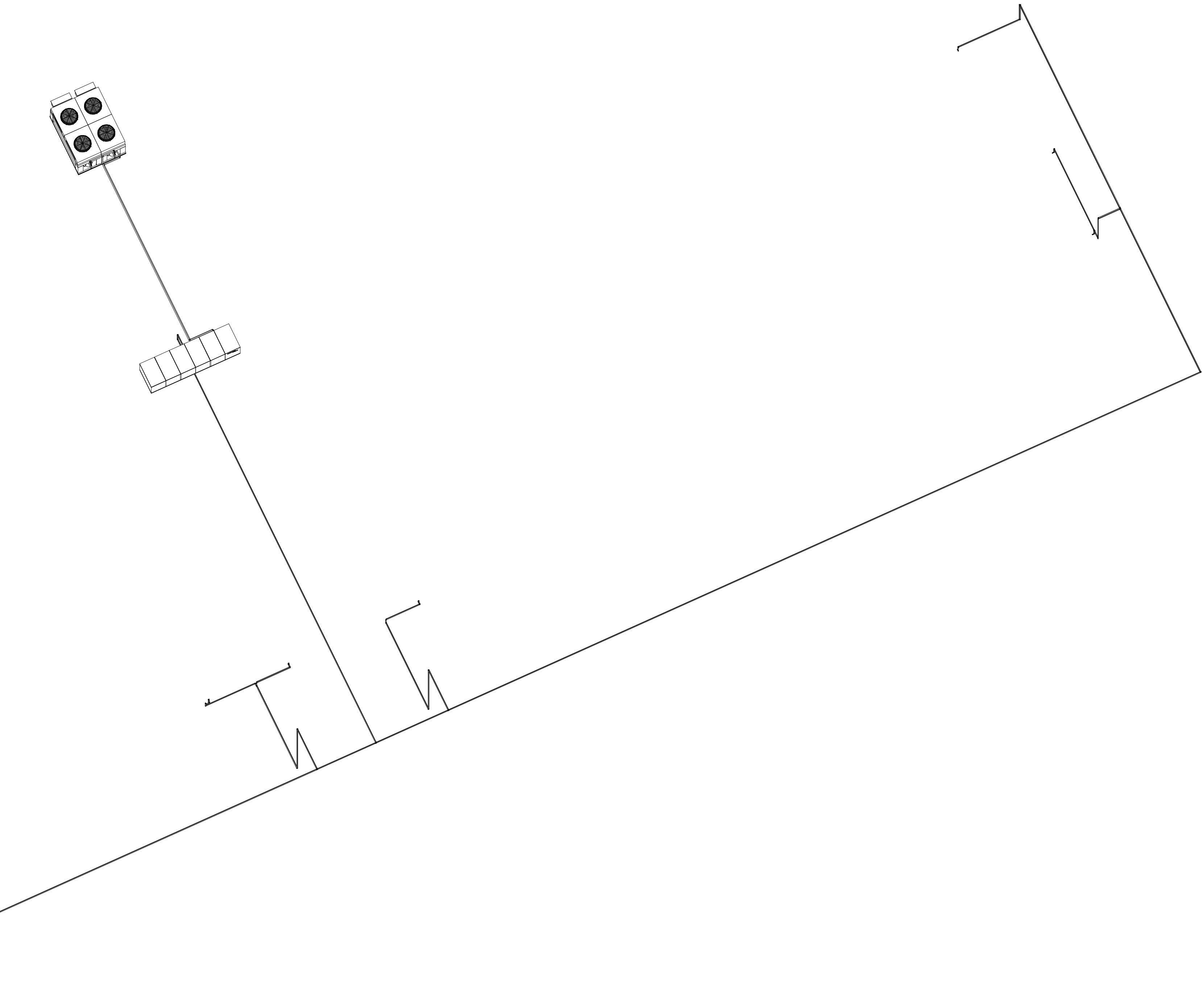
REFRIGERATION
LEGEND AND
LINE SIZING
SCHEMATIC

DRAWN: PSC
DATE: 11/06/2017
SCALE: 12" = 1'-0"
JOB NUMBER: 95954

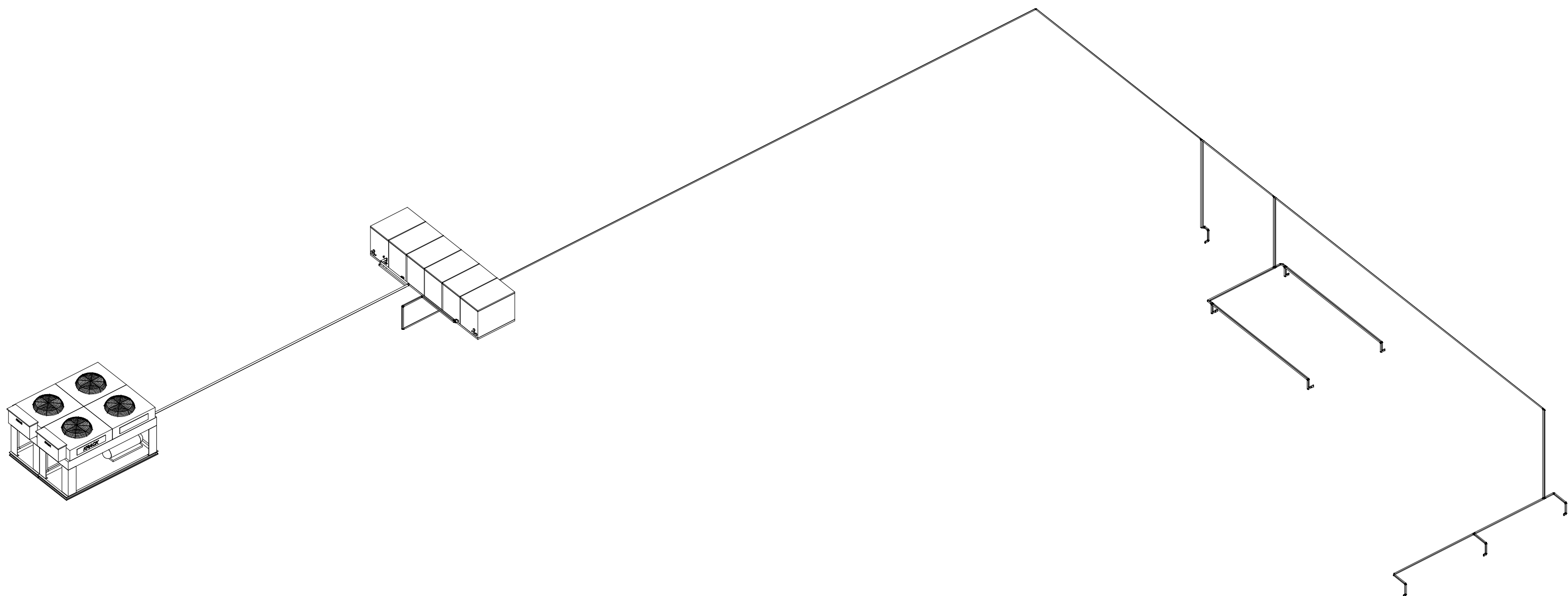
SHEET:
R4.1

PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360://Hy-Vee Lee's Summit #2, Lee's Summit #2, LEES SUMMIT #2, Rating_R20.rvt



REFRIGERATION PROTOCOL "B" LOW TEMP LINE SIZING SCHEMATIC
SCALE: NTS



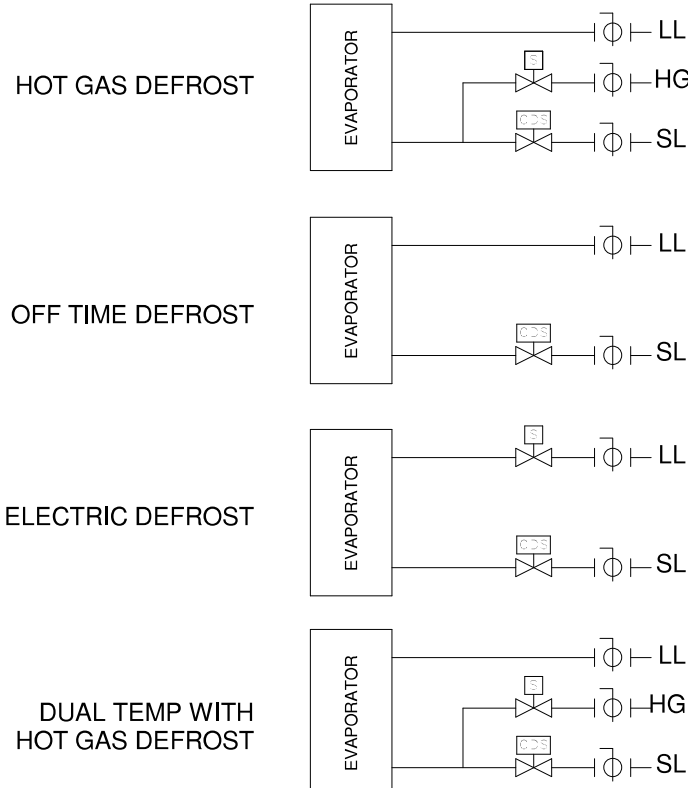
REFRIGERATION PROTOCOL "B" MEDIUM TEMP LINE SIZING SCHEMATIC
SCALE: NTS

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LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



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SET POINT STANDARDS USED BY THE CONTROLS DEPARTMENT											
LOW TEMP			MED TEMP			DEF			DEF		
SET PT	# DEF	DUR	SET PT	# DEF	DUR	SET PT	# DEF	DUR	SET PT	# DEF	DUR
24HRS	(MIN)	TYPE	24HRS	(MIN)	TYPE	24HRS	(MIN)	TYPE	24HRS	(MIN)	TYPE
RACK											
KITCHEN FRZR	-5	3	18	KG	DAIRY CLR	34	4	60	O		
MAIN W/I FRZR	-10	2	20	KG	CHINESE CLR	36	3	45	O		
CHINESE FRZR	-5	2	45	E	BAKERY CLR	36	2	60	O		
BAKERY FRZR	-5	6	18	KG	SEAFOOD CLR	36	1	30	E		
PROTOCOL					PROD CLR	36	2	60	O		
KITCHEN FRZR	-5	2	45	E	PROD PREP	55	2	30	O		
MAIN W/I FRZR	-10	2	45	E	MEAT CLR	50	3	45	E		
CHINESE FRZR	-5	4	45	E	MEAT PREP	55	1	150	O		
BAKERY FRZR	-5	6	45	E	FLORAL CLR	34	3	40	O		
					SALAD BAR	36	1	30	O		
					BEER CLR	36	2	60	O		
					DELI CLR	34	2	60	O		
W/I = WALK-IN											
LT CASES											
SET PT	# DEF	DUR	DEF	MT CASES	SET PT	# DEF	DUR	DEF			
24HRS	(MIN)	TYPE	TYPE	SET PT	# DEF	DUR	DEF	TYPE			
DSFM	31	3	46	O	CSK-EP, LEP, XLEP	31	2	30	O		
ESGMS, ESGSS	27	1	90	O	CSK-EP, LEP	31	2	30	O		
SMG, SMGV	24	1	70	O	CSK-EP, LEP	31	2	30	O		
SSGE	24	1	70	O	DSK, DSKX-LEP	30	3	30	O		
RACK					DSK-ULEP	30	4	20	O		
RL SERIES - FF	-5	1	20	KG	DSK-ULEP	30	4	25	O		
RL SERIES - IC	-12	1	20	KG	DSKX-ULEP	33	1	60	O		
PROTOCOL					DSKX-ULEP	37	1	50	O		
RL SERIES - FF	-5	1	45	E	IMX-R	32	6	20	O		
RL SERIES - IC	-12	1	45	E	IMX-EP	29	4	30	O		
					MSK-EP	30	4	30	O		
					PWVE	34	4	45	O		
					QI-SS	26	4	30	O		
					R3HV-MF	24	4	40	O		
IC = ICE CREAM FF = FROZEN FOOD											
DUAL TEMP CASES											
SET PT	# DEF	DUR	DEF	DUAL TEMP CASES	SET PT	# DEF	DUR	DEF			
24HRS	(MIN)	TYPE	TYPE	SET PT	# DEF	DUR	DEF	TYPE			
PW, FWE	-12	1	60	E	PW, FWE	24	1	60	E		
PWG, FWEG	-12	1	60	E	PWG, FWEG	24	1	60	E		
DEFROST TYPE: E = ELECT KG = KOOL GAS O = OFFTIME											

RELEASE FOR CONSTRUCTION
AS NOTED ON P&HS REVIEW
DESIGNER: JEFFREY LEE
BY: JEFFREY LEE
DATE: 08/26/2020

ENGINEER SEAL
SHANNAH
EITHER
NUMBER
E2001000891
Date: 2020.10.23
11:42:29
-05'00'

HUSSMANN®
Hussmann Corporation
13770 Davenport Avenue
(800) 580-4910
(800) 580-1113 Fax

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NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and its operating equipment only. Hussmann assumes no further responsibility. All specifications involving refrigeration equipment and line sizing are subject to change without notice. The use of this drawing for structural or architectural purposes is not authorized. It is the responsibility of the Architect, Structural, Electrical and Mechanical Engineers to verify and coordinate all dimensions and refrigeration line sizing with contractors at the job site and insure that installations conform to specifications and all applicable codes.

LOCATION
LEE'S SUMMIT #2, MO
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2355

Hy-Vee
EMPLOYEE OWNED

NORTH
PLAN NORTH

REFRIGERATION
LEGEND AND
LINE SIZING
SCHEMATIC

DRAWN: PSC
SCALE:
DATE: 11/06/2017
JOB NUMBER: 95954

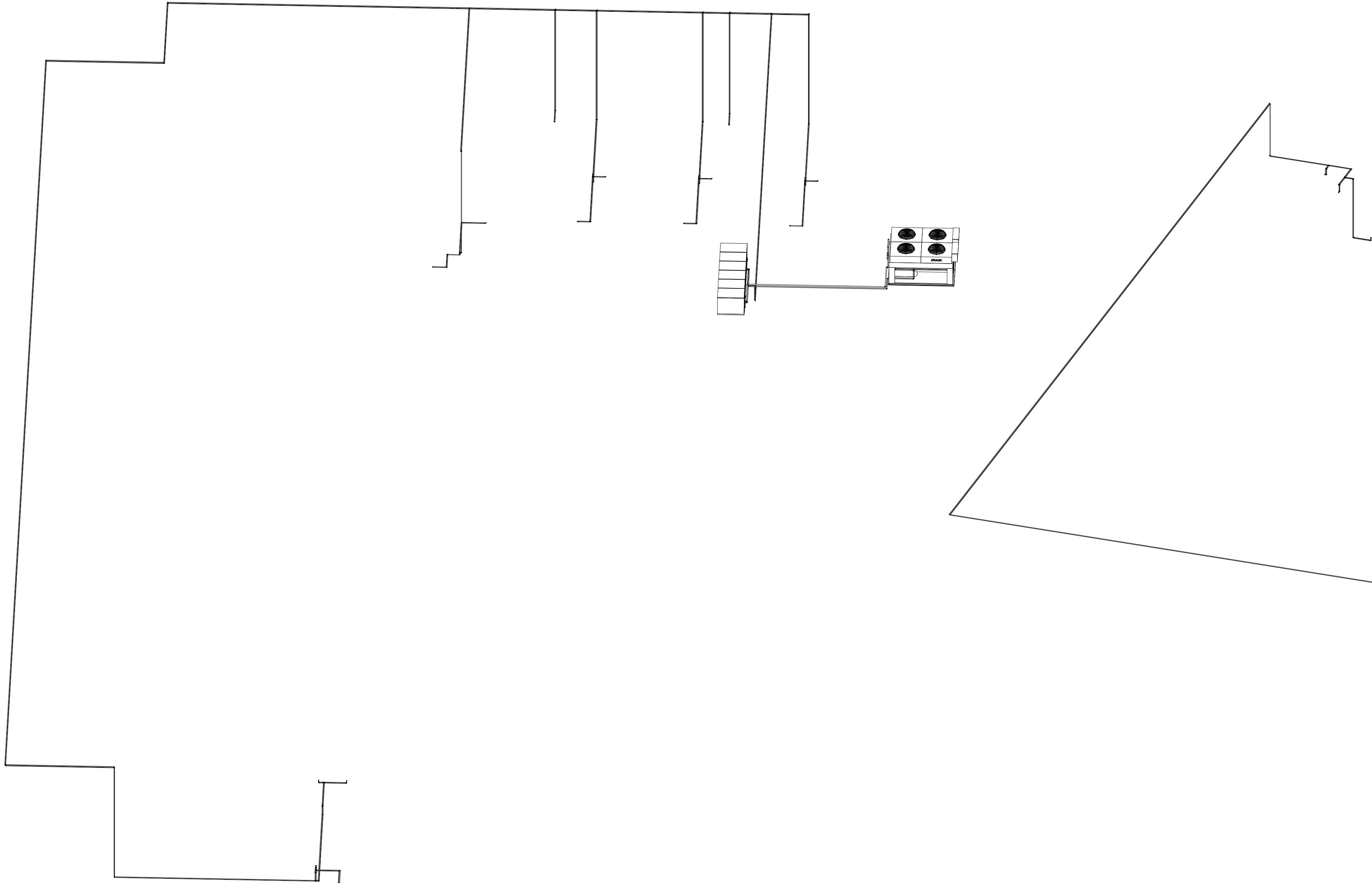
SHEET:
R4.2

PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360://Hy-Vee Lee's Summit #2/LEE'S SUMMIT_2_Racking_R20.rvt

REFRIGERATION PROTOCOL "C" LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION RACK "D" LOOP 14 LINE SIZING SCHEMATIC

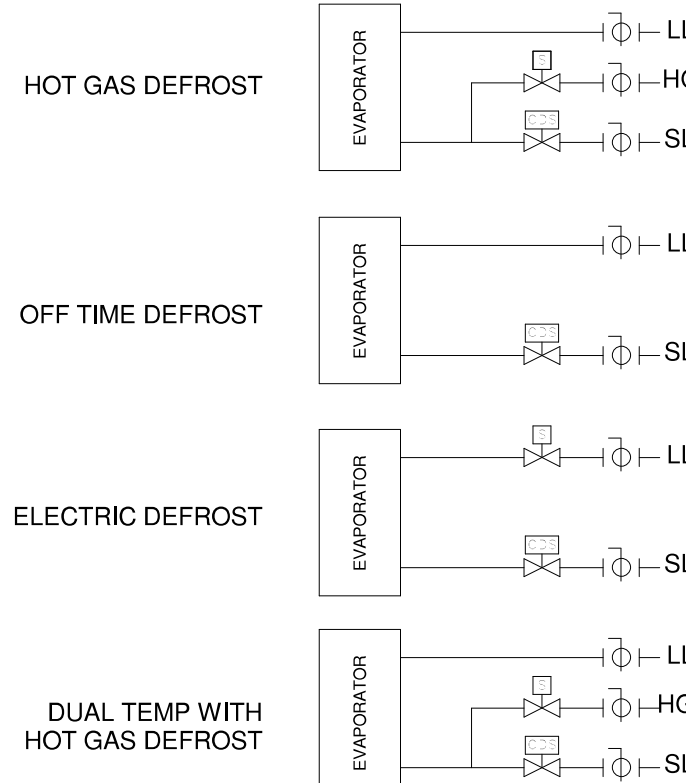
SCALE: NTS

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LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



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SET POINT STANDARDS USED BY THE CONTROLS DEPARTMENT											
LOW TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MED TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
RACK					KITCHEN CLR	34	4	60	O		
KITCHEN FRZR	-5	3	18	KG	CHINESE CLR	36	2	60	O		
MAIN W/ FRZR	-10	2	20	KG	CHINESE CLR	36	3	45	O		
CHINESE FRZR	-5	2	45	E	BAKERY CLR	36	2	60	O		
BAKERY FRZR	-5	6	18	KG	SEAFOOD CLR	36	1	30	E		
PROTOCOL					PROD CLR	36	2	60	O		
KITCHEN FRZR	-5	2	45	E	PROD PREP	55	2	90	O		
MAIN W/ FRZR	-10	2	45	E	MEAT CLR	50	3	45	E		
CHINESE FRZR	-5	4	45	E	MEAT PREP	55	1	150	O		
BAKERY FRZR	-5	6	45	E	FLORAL CLR	34	3	40	O		
					SALAD BAR	36	1	30	O		
					BEER CLR	36	2	60	O		
					DELI CLR	34	2	60	O		
W/I = WALK-IN											
LT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
DSFM	31	3	46	O	CSK-EP, LEP, XLEP	31	2	30	O		
ESGMS, ESGSS	27	1	90	O	CSK-EP, LEP	31	2	30	O		
SMG, SMGV	24	1	70	O	CSK-EP, LEP	31	2	30	O		
SSGE	24	1	70	O	DSK, DSK-LEP	30	3	30	O		
RACK					DSK-ULEP	30	4	20	O		
RL SERIES - FE	-5	1	20	KG	DSK-ULEP	30	4	25	O		
RL SERIES - IC	-12	1	20	KG	DSKX-ULEP	33	1	60	O		
PROTOCOL					DSKX-ULEP	37	1	50	O		
RL SERIES - FE	-5	1	45	E	MR-R	32	6	20	O		
RL SERIES - IC	-12	1	45	E	MSK-EP	29	4	30	O		
					MSK-EP	30	4	30	O		
					PWWVE	34	4	45	O		
					QI-55	26	4	30	O		
					RSHV-MF	24	4	40	O		
K = ICE CREAM FE = FROZEN FOOD											
DUAL TEMP CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	DUAL TEMP CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE		
LT					MT						
FW, FWE	-12	1	60	E	FW, FWE	24	1	60	E		
FWG, FWEG	-12	1	60	E	FWG, FWEG	24	1	60	E		
DEFROST TYPE: E = ELECT KG = KOOL GAS O = OFFTIME											

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW BY: LEE'S SUMMIT, MISSOURI

REVISION
1 2020 PRODUCE CASE REMODEL 08/26/2020

ENGINEER SEAL
SHANNAH EITNER
E2001000891
Date: 2020.10.23 11:42:54 -05'00'

HUSSMANN
Hussmann Corporation
13770 Davenport Avenue
Des Moines, IA 50326
(515) 580-4910
(800) 580-4113 Fax

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LOCATION
LEE'S SUMMIT #2, MO

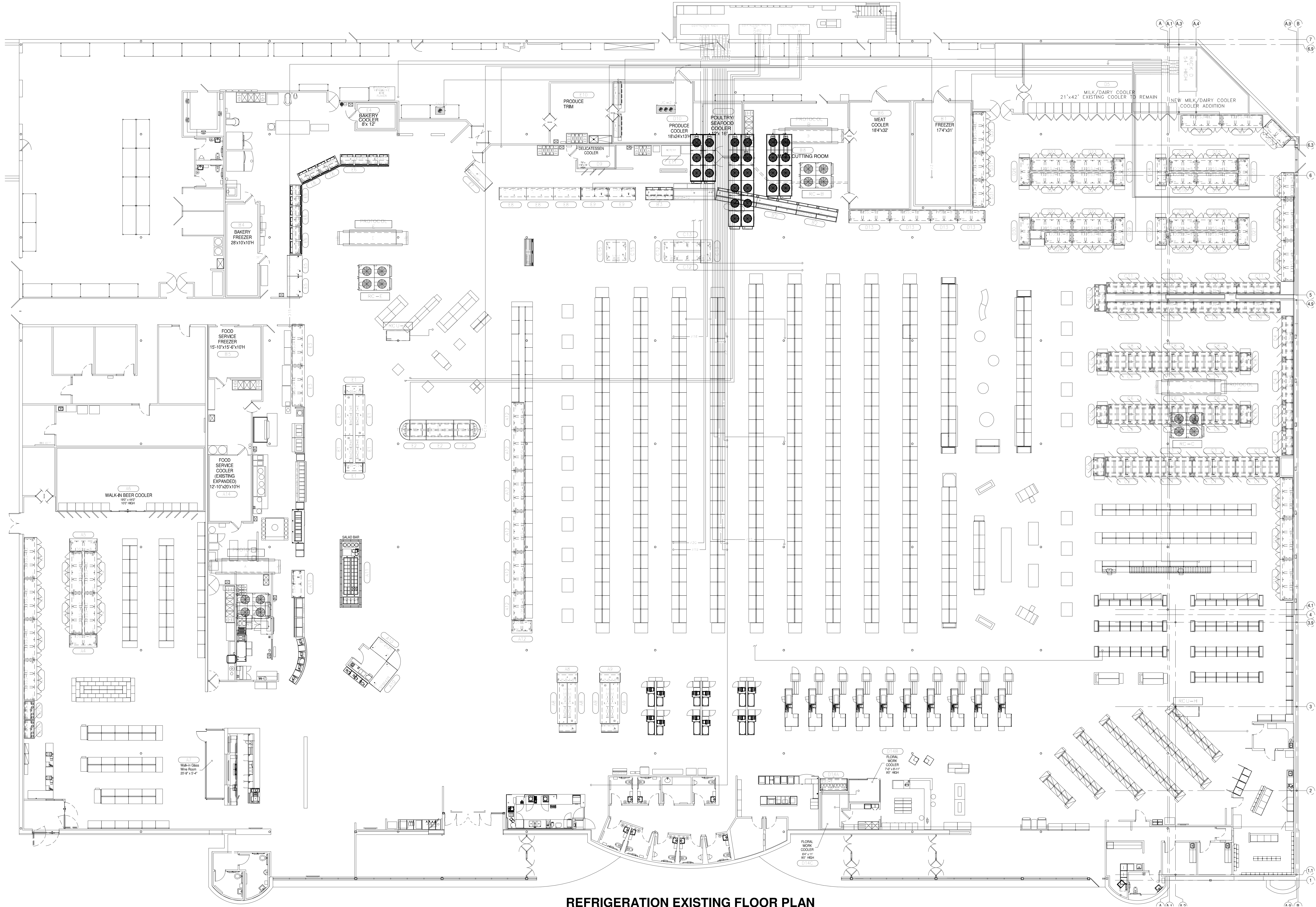
HY-VEE
EMPLOYEE OWNED

NORTH
PLAN NORTH

REFRIGERATION
LEGEND AND
LINE SIZING
SCHEMATIC

DRAWN: PSC DATE: 11/06/2017
SCALE: 12" = 1'-0" JOB NUMBER: 95954
SHEET: R4.3

PRELIMINARY - NOT FOR CONSTRUCTION



REFRIGERATION EXISTING FLOOR PLAN
SCALE: 3/32" = 1'-0"

REVISION
1 2020 PRODUCE CASE REMODEL 08/20/20

ENGINEER SEAL
SHANNAH
NUMBER
E2001000891
Date
2020.10.23
11:43:22
-05'00'

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Husmann Corporation
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LOCATION
LEE'S SUMMIT #2, MO

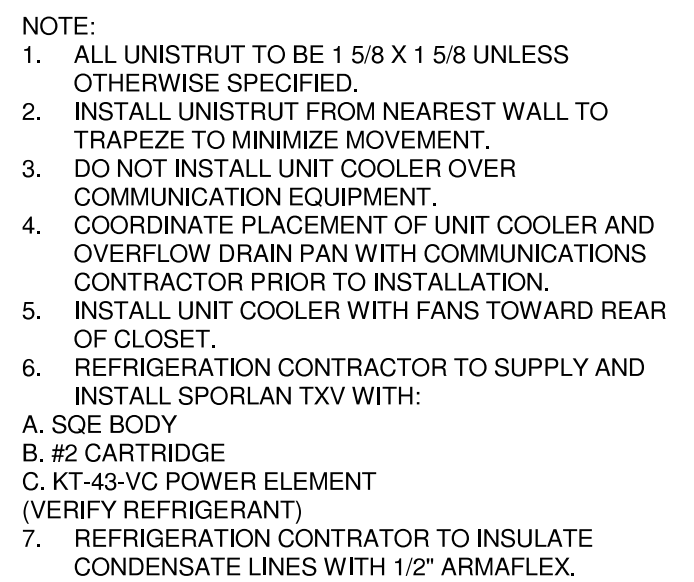
HY-VEE, INC.
5820 WESTTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2555

EMPLOYEE OWNED

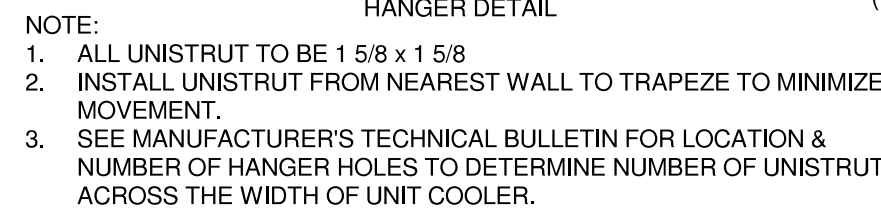
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PRELIMINARY - NOT FOR CONSTRUCTION

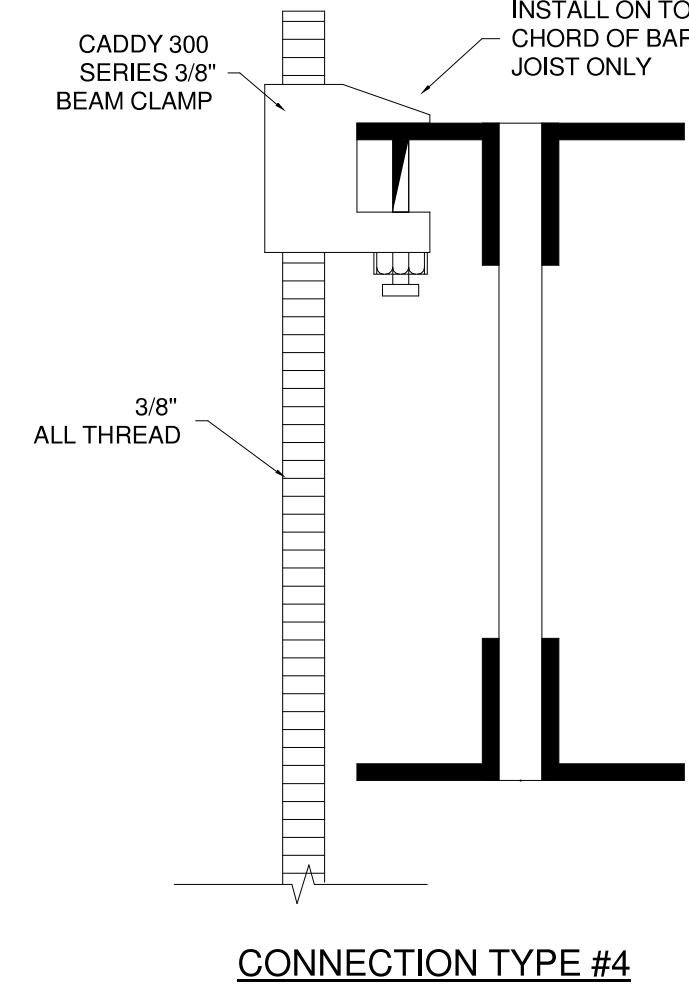
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SCALE: 3/32" = 1'-0" JOB NUMBER: 95954
SHEET: R4.4



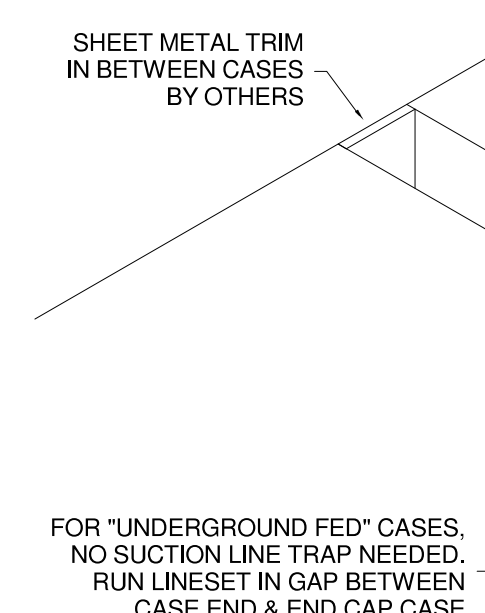
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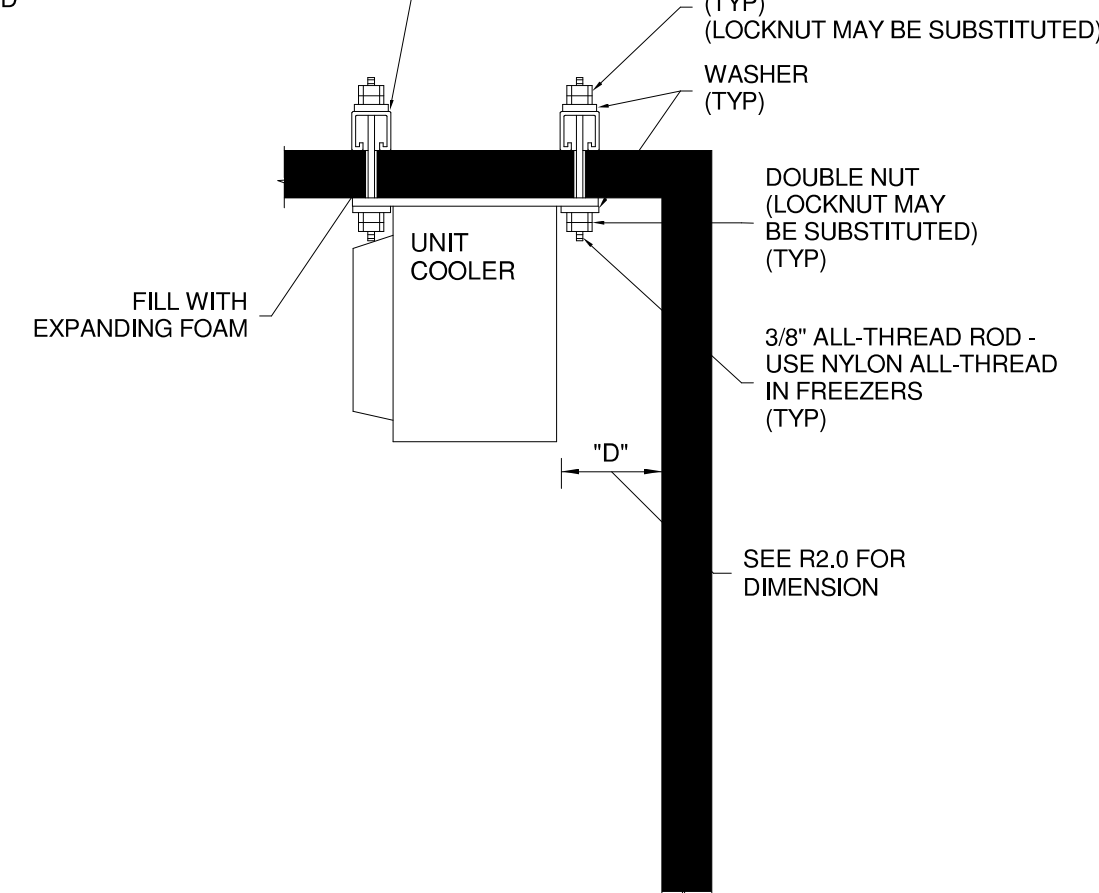
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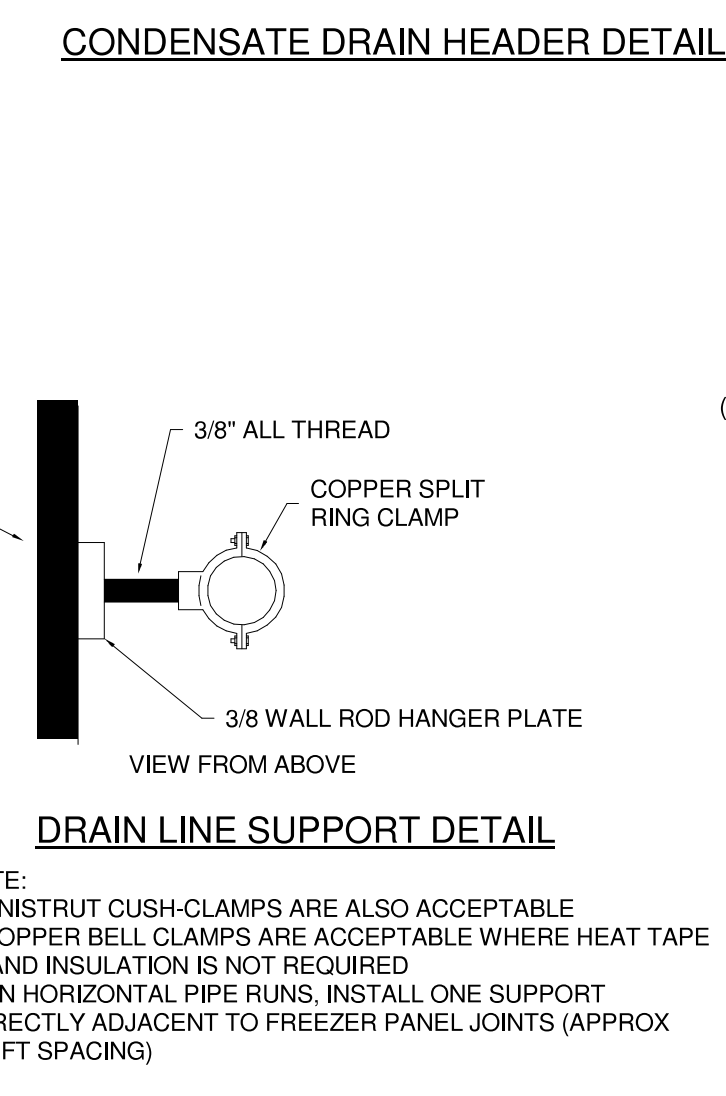
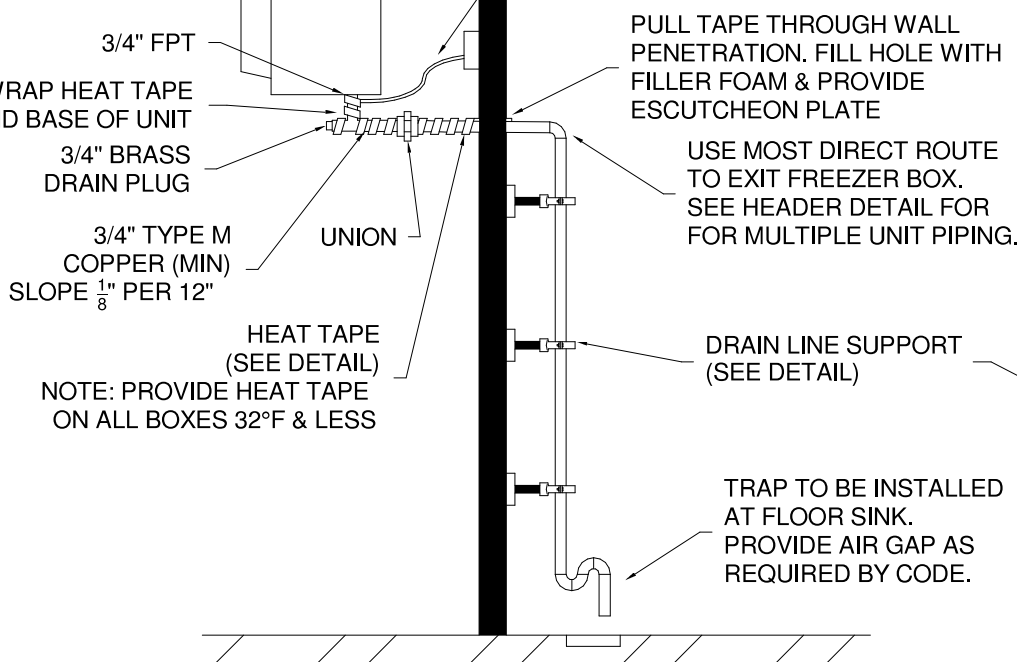
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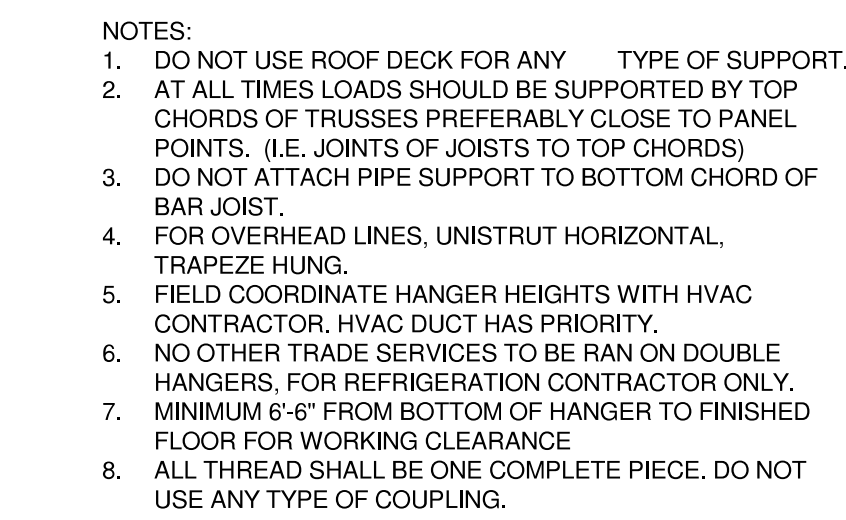
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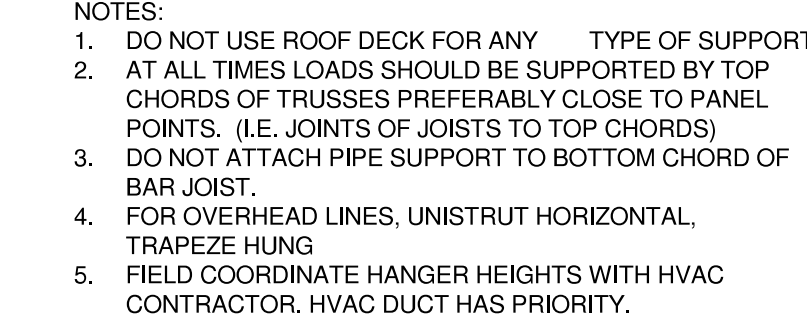
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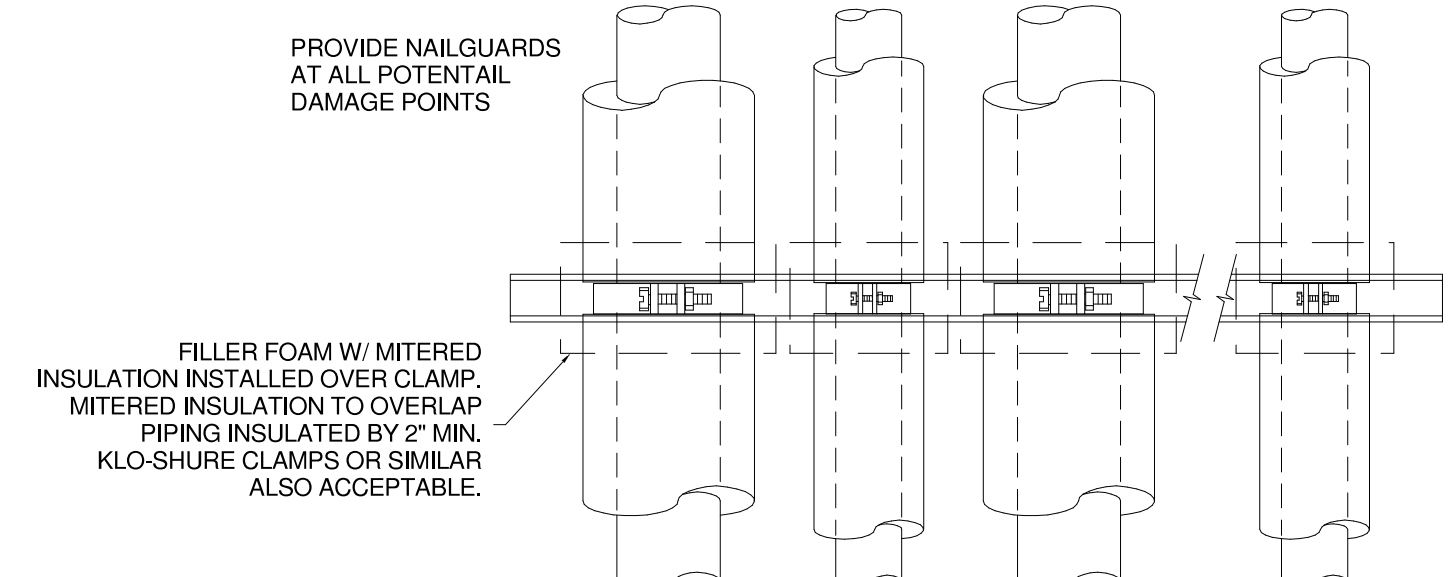
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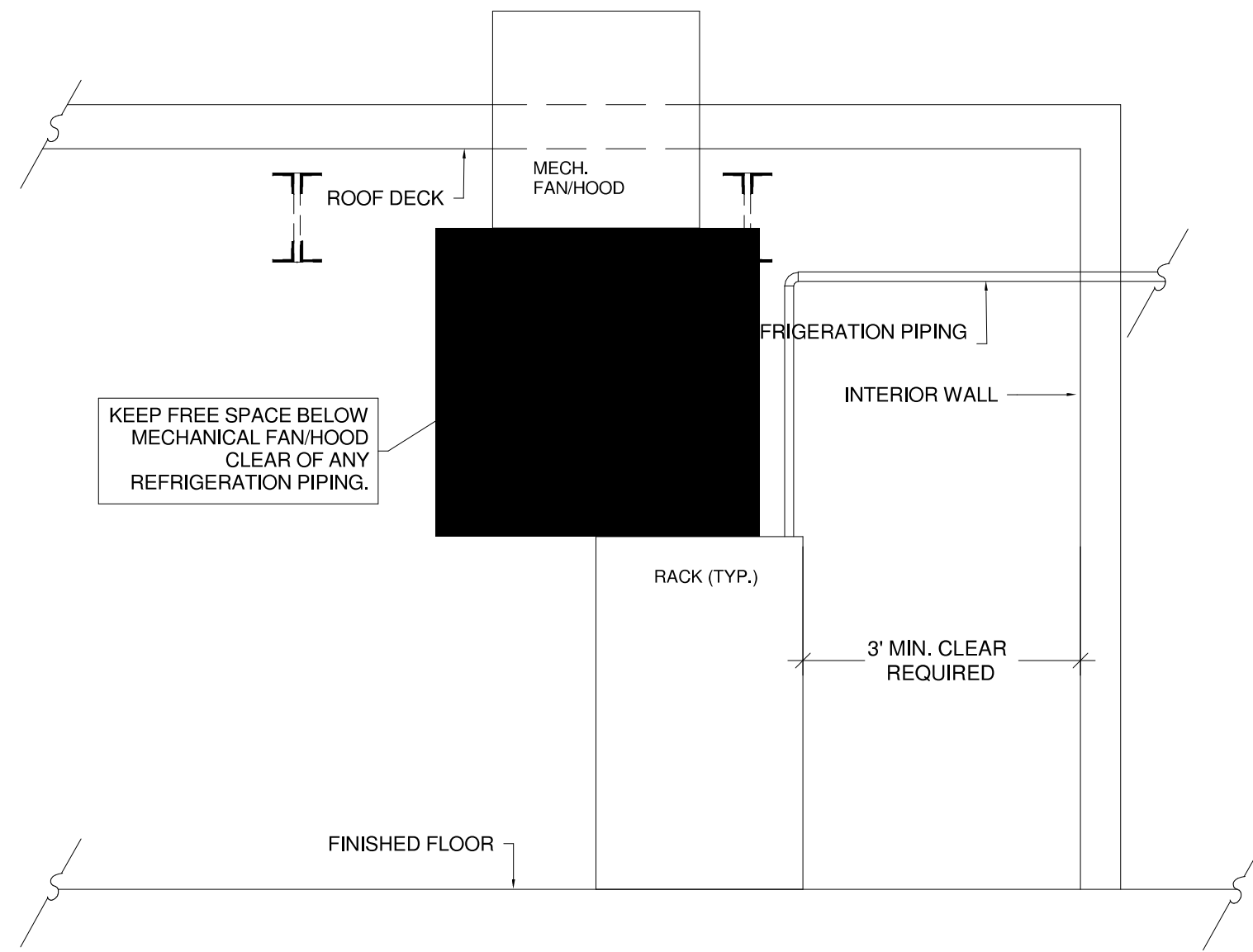
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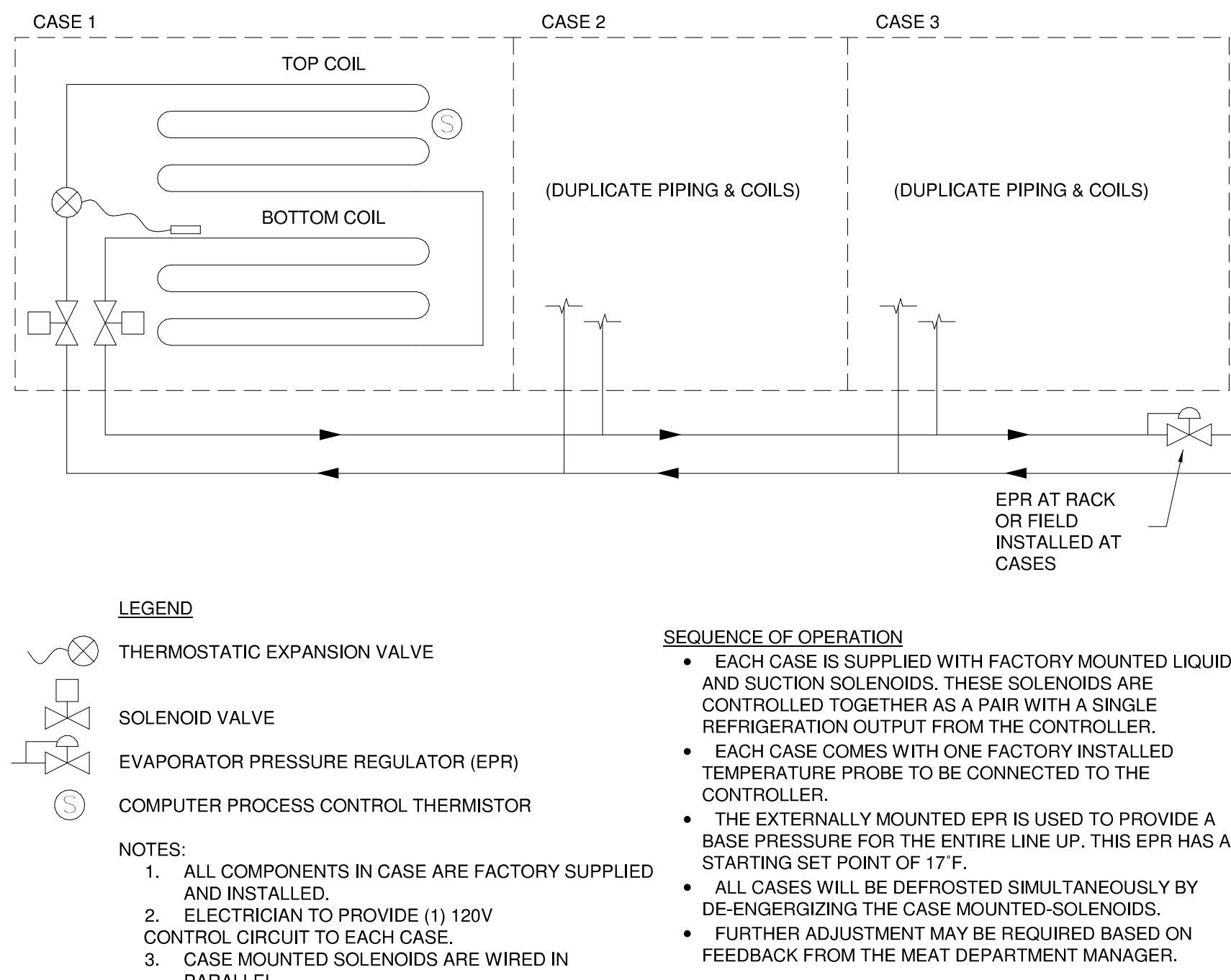
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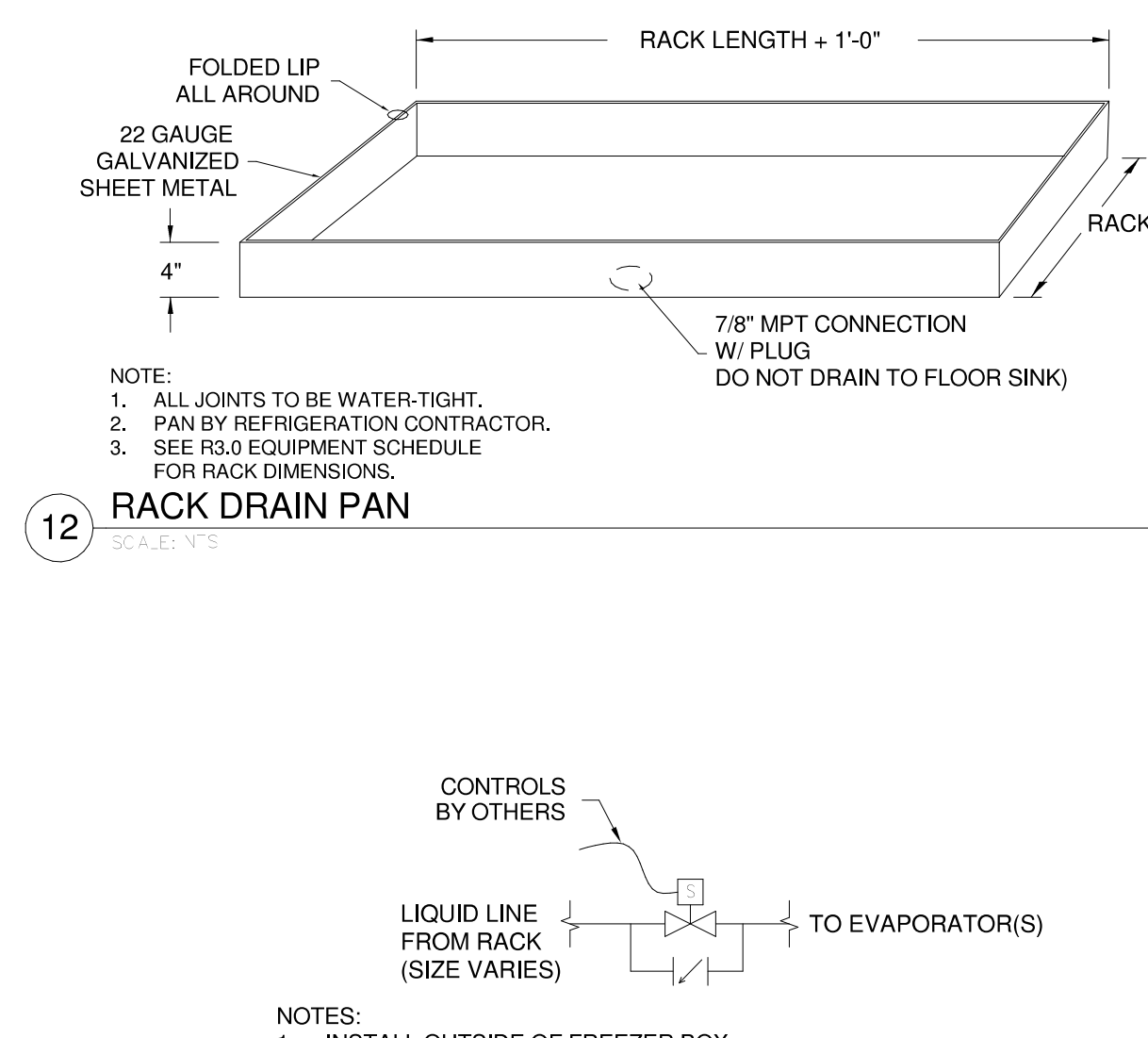
14 MECHANICAL / RACK CLEARANCE



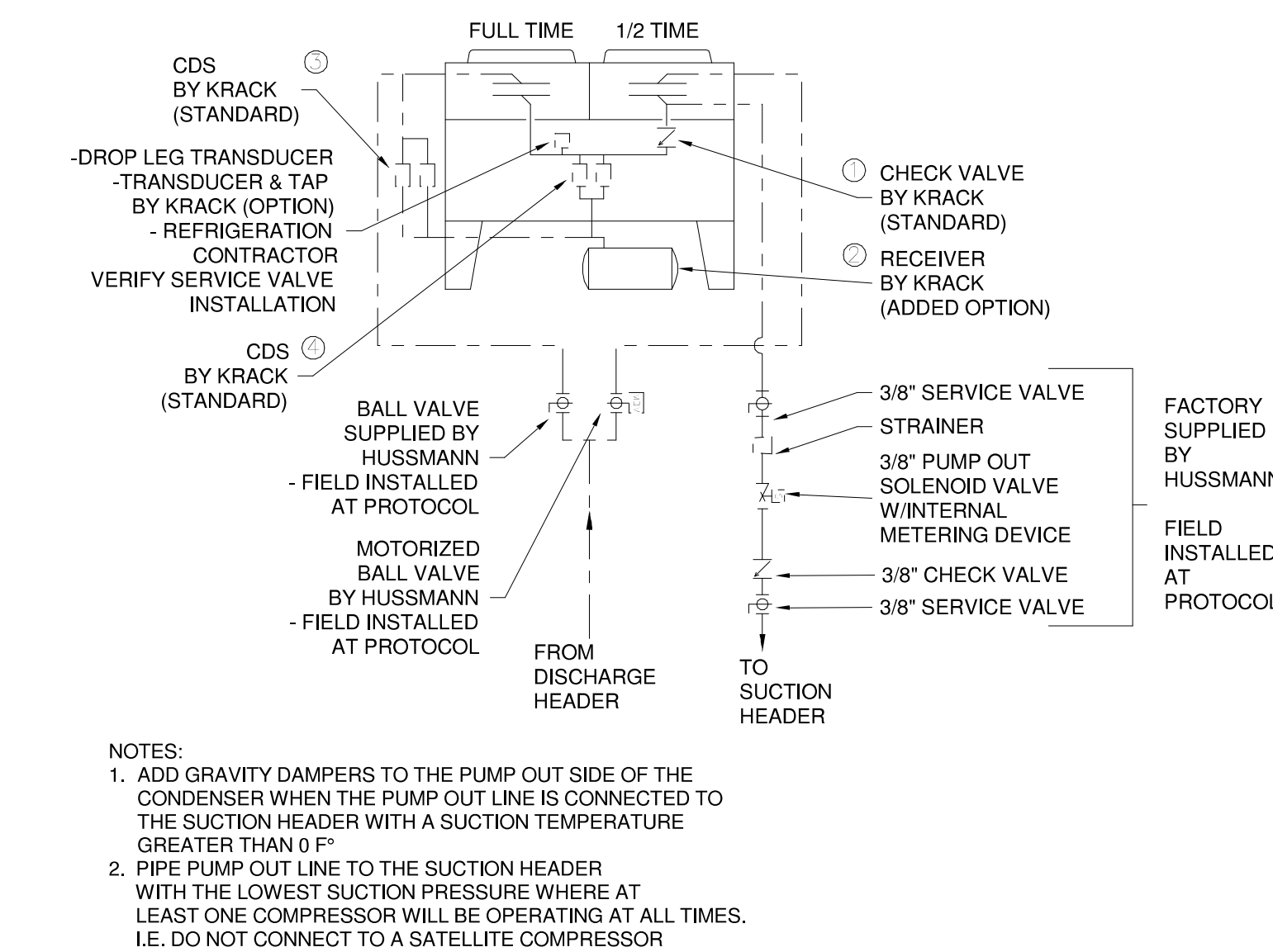
13 BORGES MEAT CASE SETUP



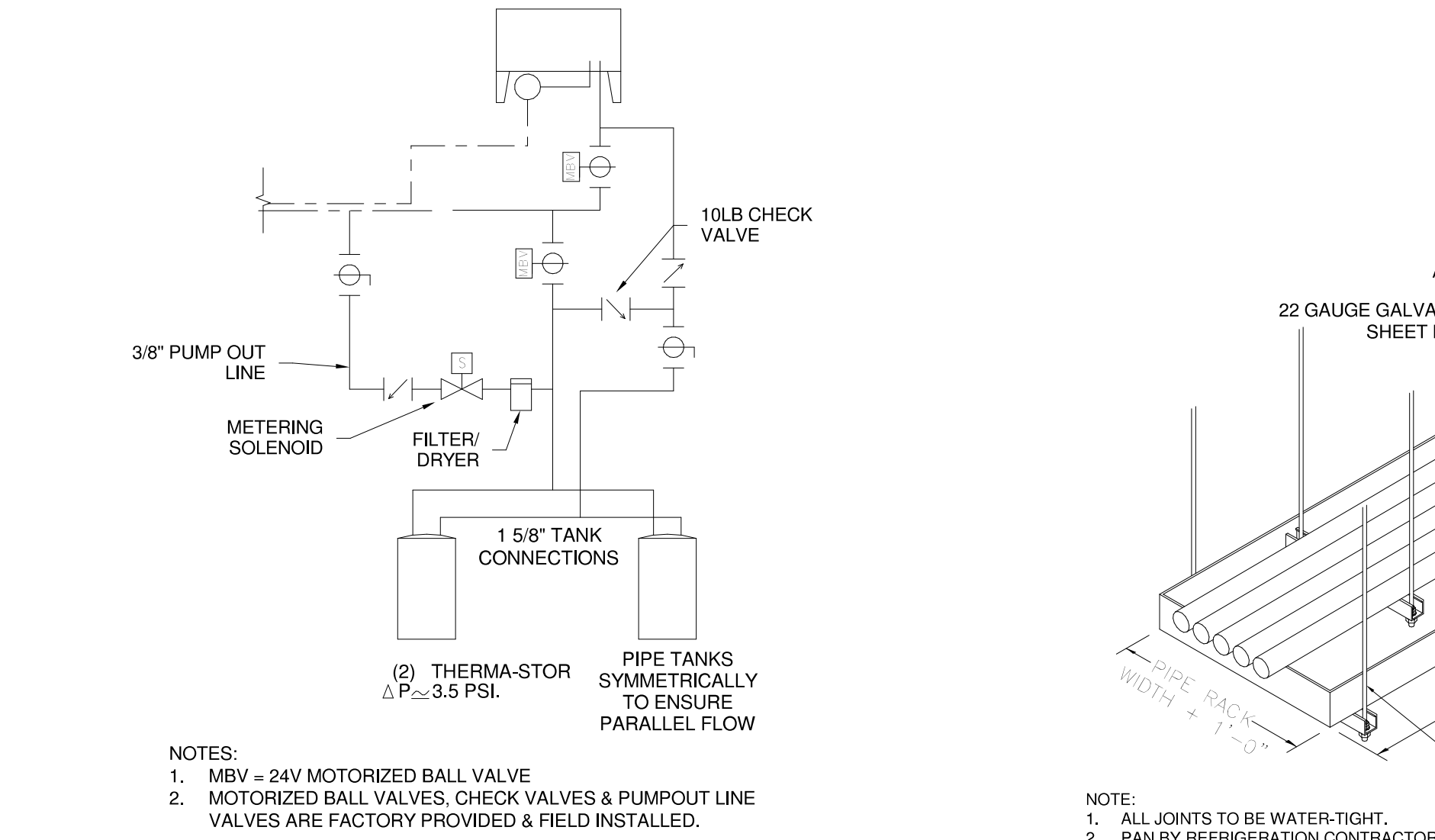
11 KOOL-GAS DOOR SWITCH CONTROL VALVE DETAIL



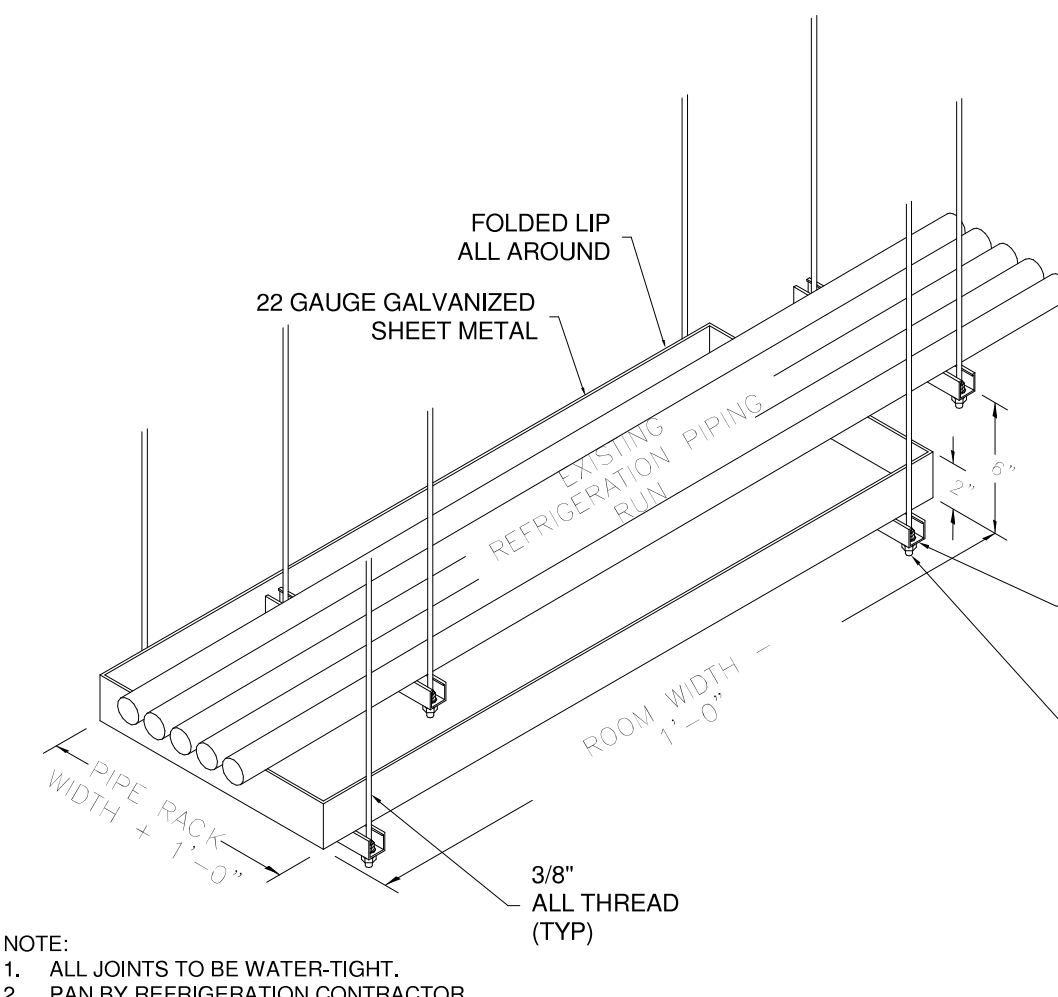
10 PROTOCOL SPLIT CONDENSER DETAIL



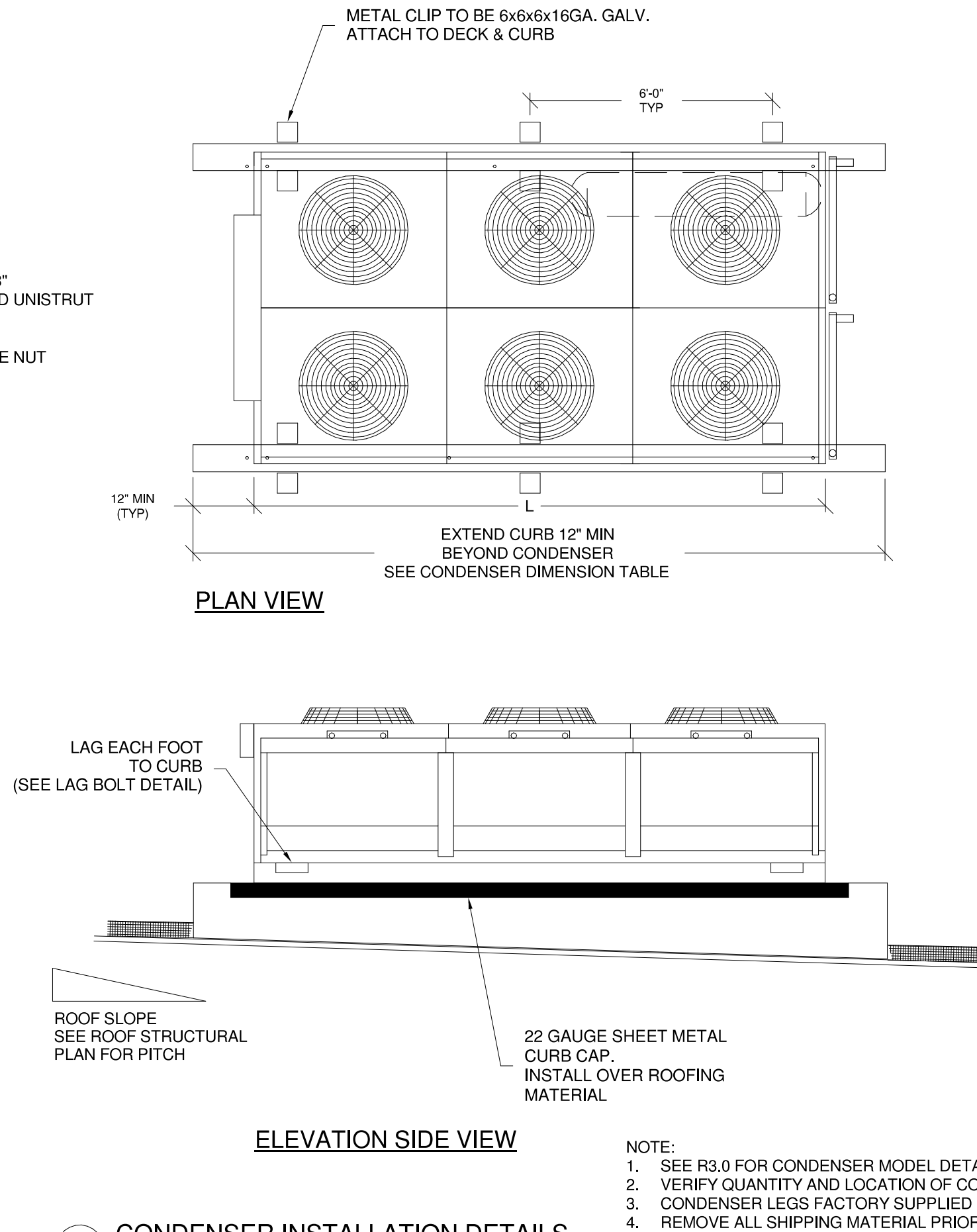
9 PROTOCOL HEAT RECLAIM PIPING DIAGRAM



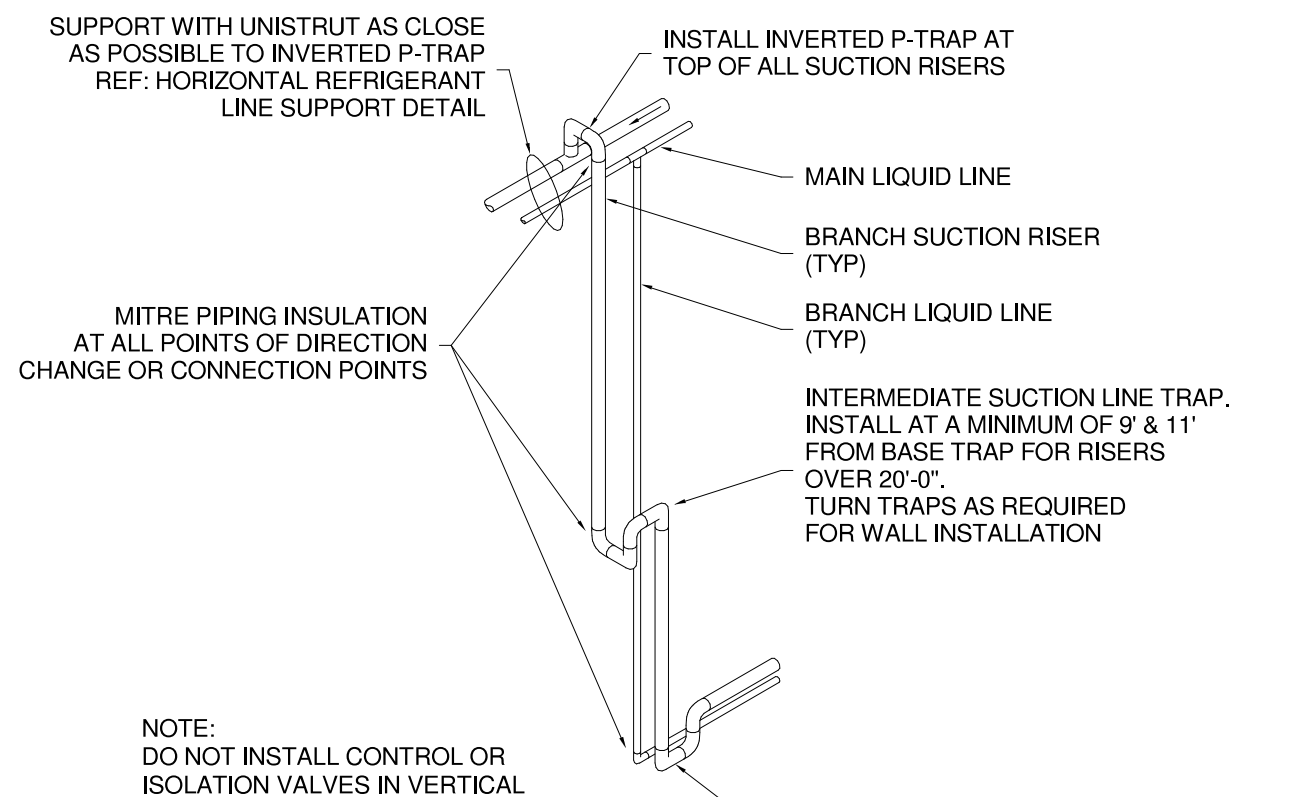
8 REFRIGERATION LINE CONDENSATE PAN



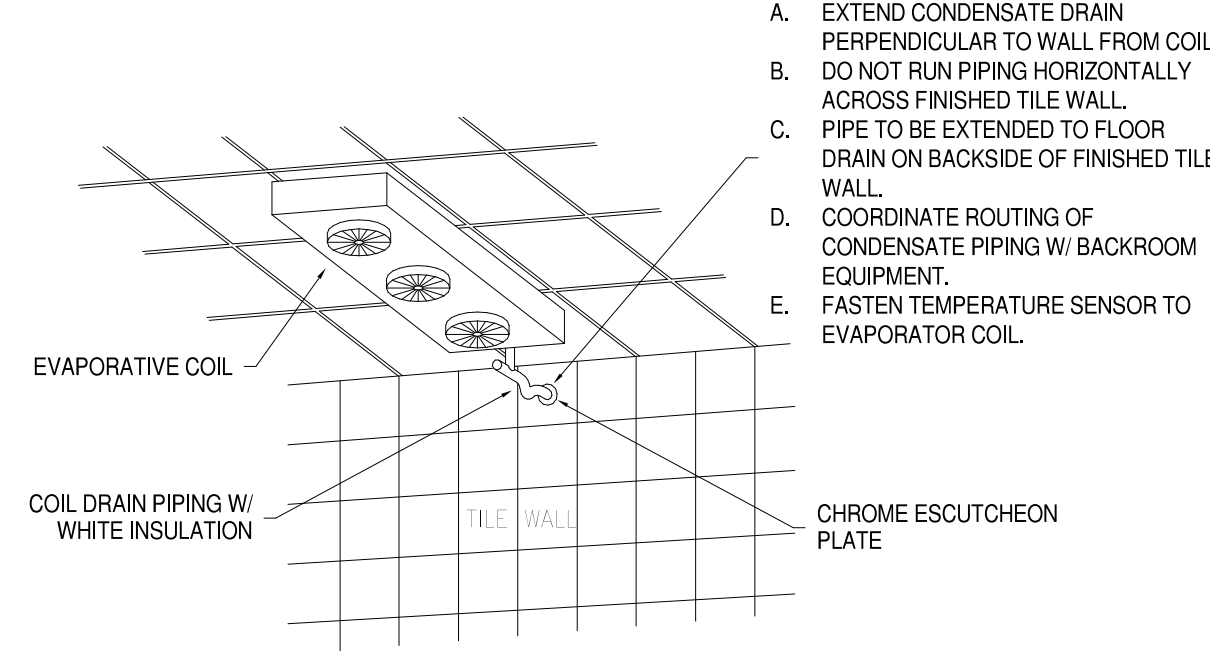
6 CONDENSER INSTALLATION DETAILS



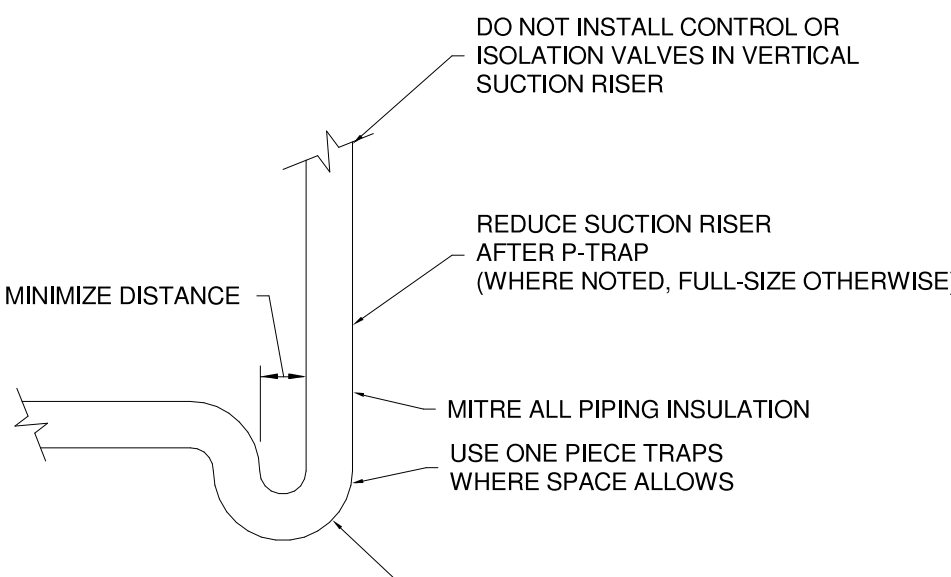
7 INTERMEDIATE SUCTION LINE TRAP



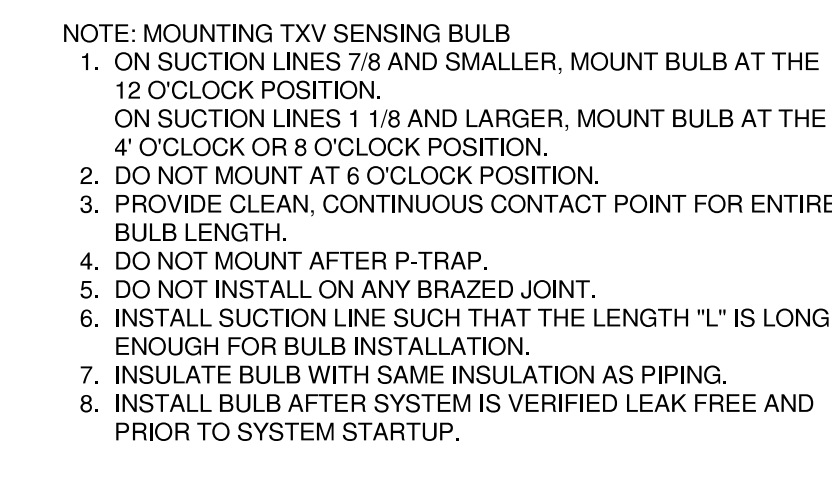
5 TYPICAL EVAPORATIVE COIL PIPING DETAIL



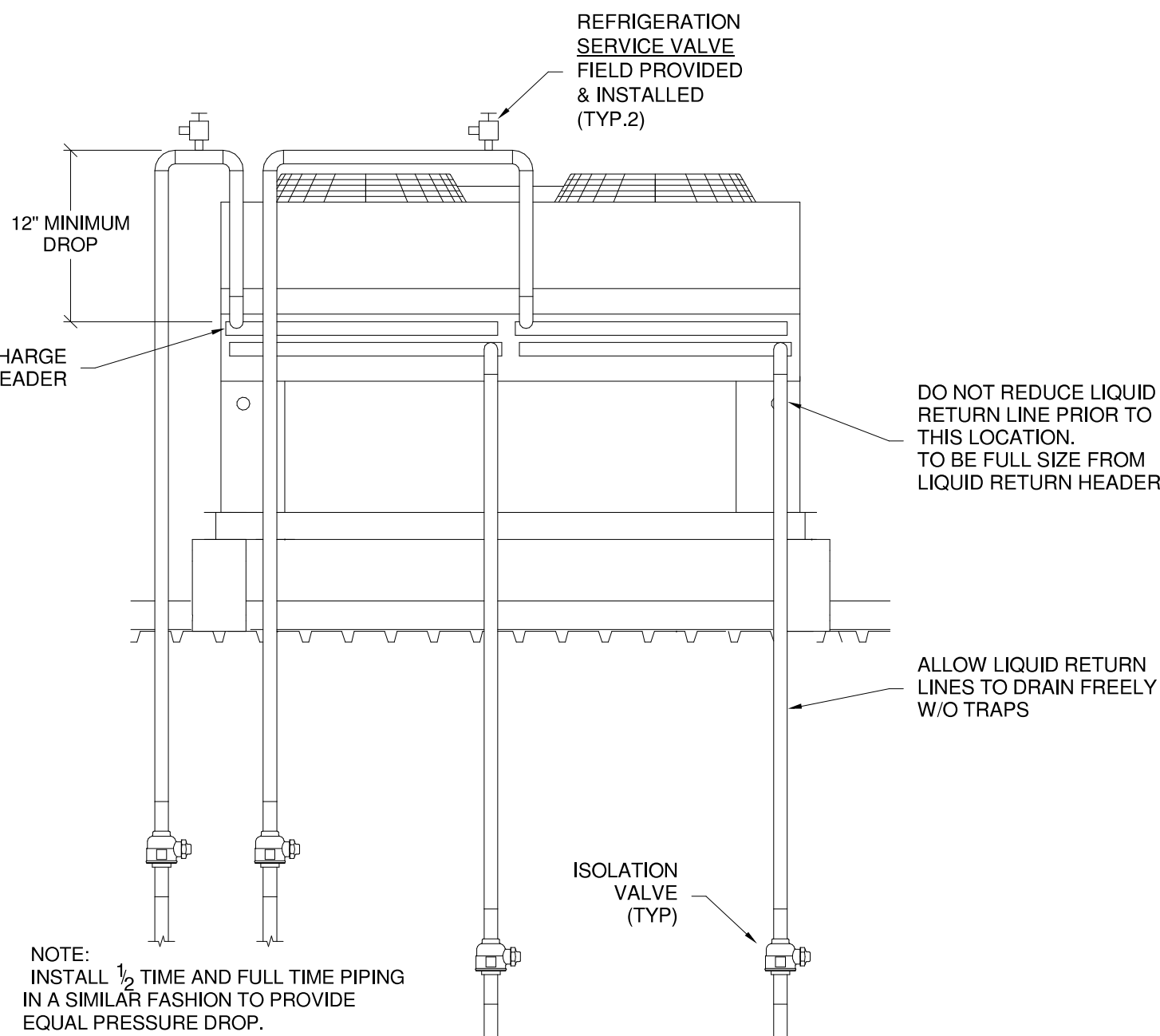
4 P-TRAP DETAIL



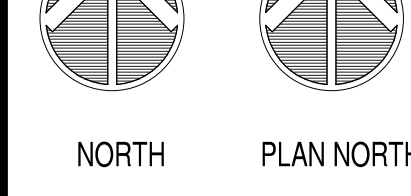
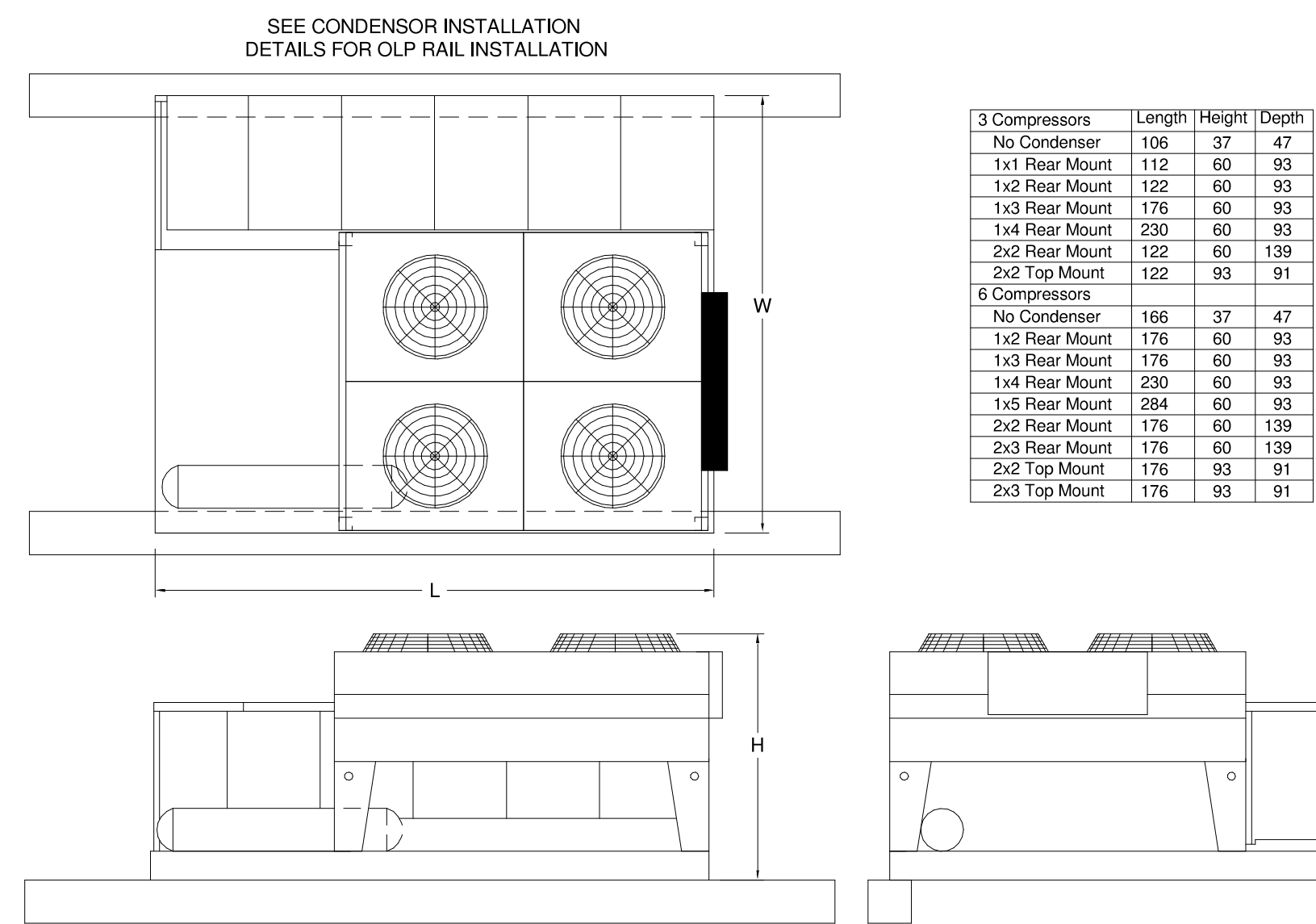
3 TXV SENSING BULB DETAIL



2 CONDENSER PIPING DETAIL



1 OLP PROTOCOL DIMENSIONS

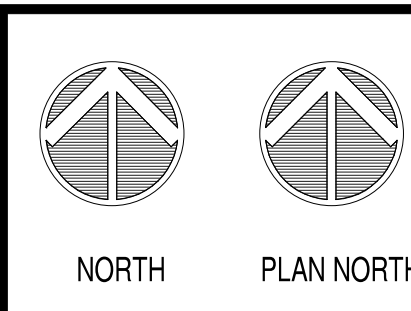


PIPING DETAILS

DRAWN: PSC DATE: 11/06/2017
SCALE: 12" = 1'-0" JOB NUMBER: 95954
SHEET: 95954

R5.1

LOCATION
LEE'S SUMMIT #2, MO



PIPING DETAILS

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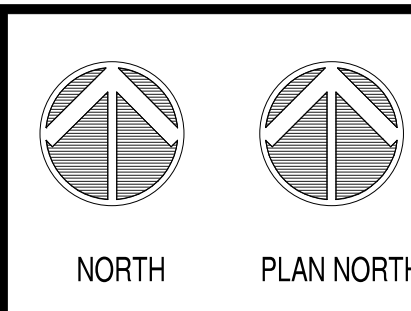
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5820 WESTOWN PARKWAY
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TELEPHONE: (515) 267-2800
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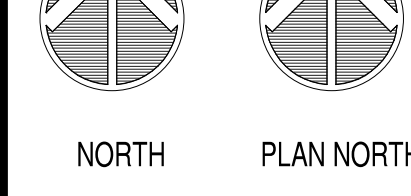
EMPLOYEE OWNED
HY-VEE



PIPING DETAILS

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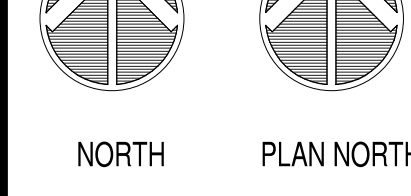
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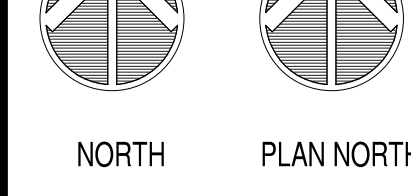
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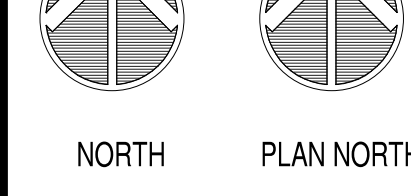
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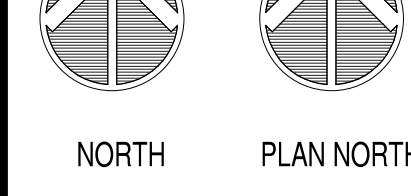
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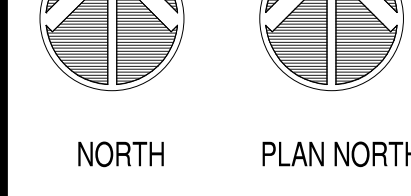
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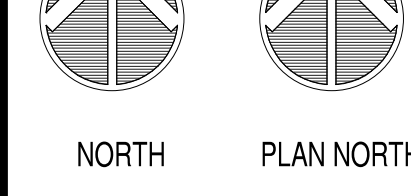
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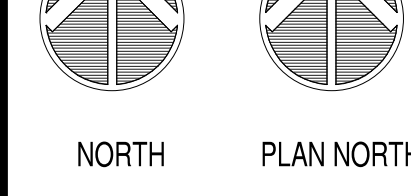
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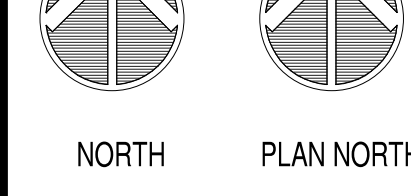
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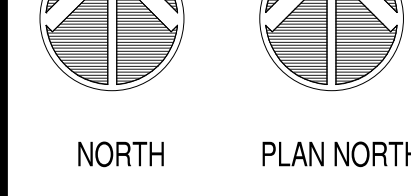
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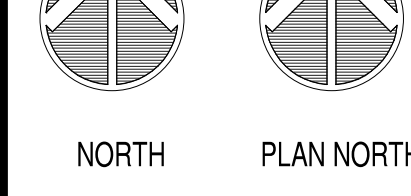
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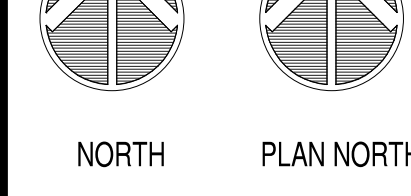
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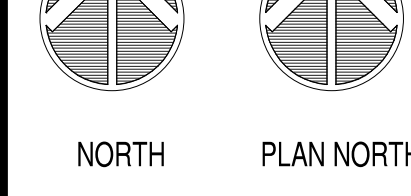
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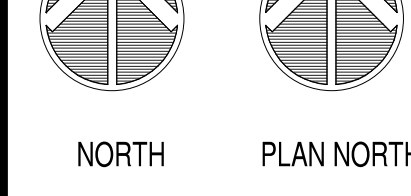
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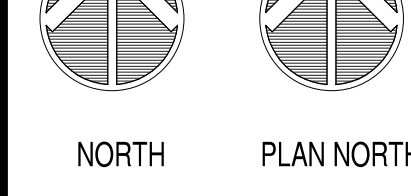
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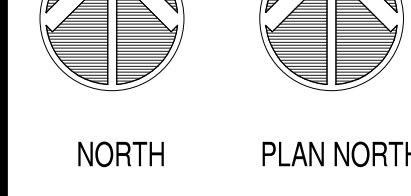
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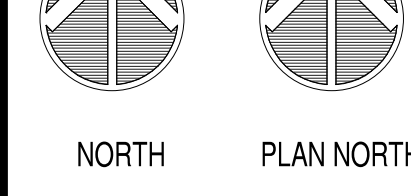
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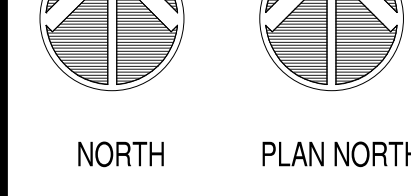
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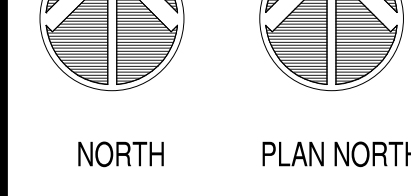
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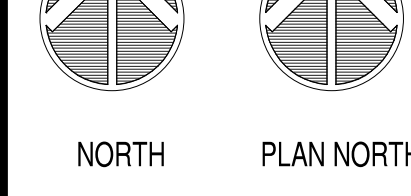
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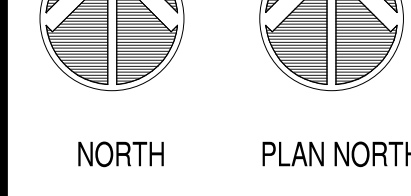
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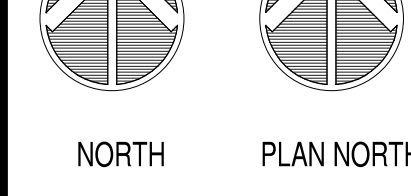
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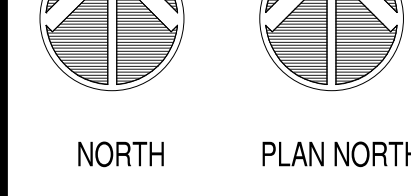
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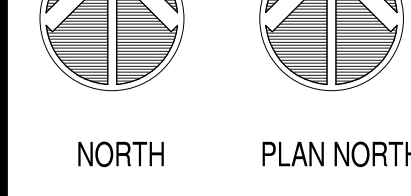
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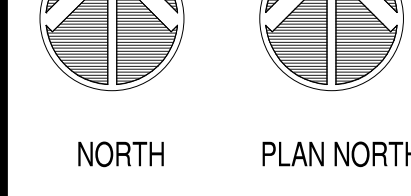
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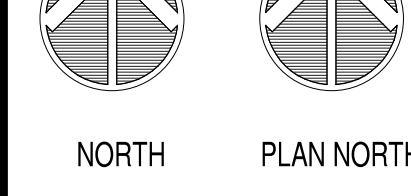
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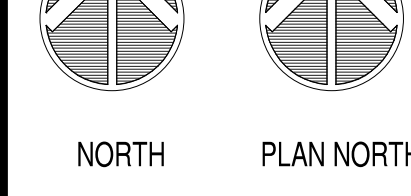
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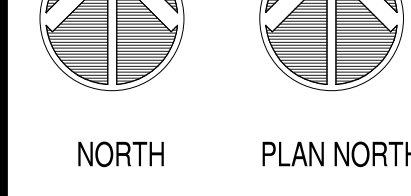
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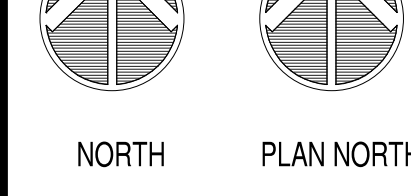
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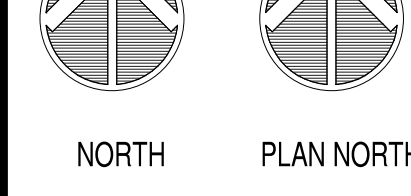
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SHEET: 95954

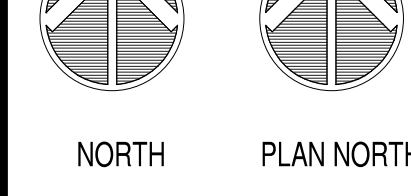
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PIPING DETAILS

DRAWN: PSC DATE: 11/06/2017
SCALE: 12" = 1'-0" JOB NUMBER: 95954
SHEET: 95954

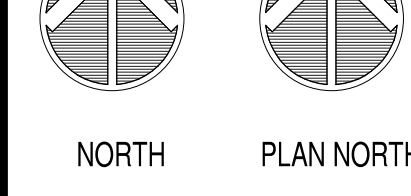
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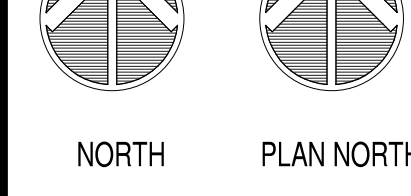
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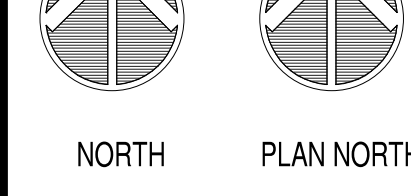
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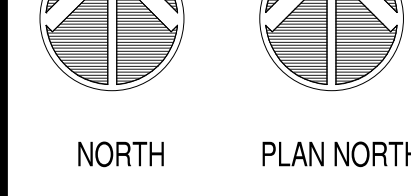
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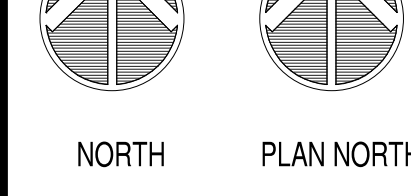
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PIPING DETAILS

DRAWN: PSC DATE: 11/06/2017
SCALE: 12" = 1'-0" JOB NUMBER: 95954
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PIPING DETAILS

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SCALE: 12" = 1'-0" JOB NUMBER: 95954
SHEET: 95954

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BM 360-Hy-Vee Lee's Summit E6.1-EE'S SUMMIT_2_Rising_R20.rvt

HVAC LOW VOLTAGE NOTES				
Electrician to provide and pull all HVAC low voltage cable				
Controls Contractor shall terminate all HVAC network and low voltage cable				
Bacnet/485 Network Cable to be 22/3 shielded, plenum rated, stranded conductors (MWC-5171-FBL-Metro Wire or equal)				
All other cable to be 18/8, 18/4, 18/2 shielded, plenum rated, stranded conductors (MWC-5386-F, MWC-5192-F, MWC-5190)				
Pull all cables into equipment control cabinets and down into temp and/or humidity locations. Leave 10' coiled up on each end with cable ID labels on each end.				
All low voltage cable shall be installed in bridge rings, j-hooks, or cable tray.				
Controls Contractor to supply and mount HVAC panel, I/O panels, and generator override panel.				
Provide 2 rough ins vertically with conduit in between for RTU's with temperature and humidity sensors, pull 18/8 into bottom rough in. Refer to H drawings for rough in heights.				
HVAC Low Voltage Cable Schedule				
Cable ID #	Cable	To:	From:	Description
RTUs Cable Pulls				
1TH	18/8	RTU 1	Temp/Humidity Sensor Location	Inputs
2TH	18/8	RTU 2	Temp/Humidity Sensor Location	Inputs
3T	18/8	RTU 3	Temp Sensor Location	Inputs
3DA	18/2	RTU 3	Discharge Air Sensor	Inputs
4T	18/8	RTU 4	Temp Sensor Location	Inputs
4DA	18/2	RTU 4	Discharge Air Sensor	Inputs
5T	18/8	RTU 5	Temp Sensor Location	Inputs
5DA	18/2	RTU 5	Discharge Air Sensor	Inputs
7T	18/8	RTU 7	Temp Sensor Location	Inputs
7DA	18/2	RTU 7	Discharge Air Sensor	Inputs
8T	18/8	RTU 8	Temp Sensor Location	Inputs
8DA	18/2	RTU 8	Discharge Air Sensor	Inputs
9T	18/8	RTU 9	Temp Sensor Location	Inputs
11TH	18/8	RTU 11	Temp/Humidity Sensor Location	Inputs
12TH	18/8	RTU 12	Temp/Humidity Sensor Location	Inputs
UH-1 &2				
UH1	18/8	UH-1	Temp Sensor Location	Inputs
UH-2	18/8	UH-2	Temp Sensor Location	Inputs
UH-2	18/8	UH-2	Temp Sensor Location	Inputs
Kitchen Hoods				
H1S	18/2	Space Temp Sensor Location	Hood 1 Control Panel	See Hood Detail H Drawings
H1E	18/2	Exhaust Temp Sensor	Hood 1 Control Panel	See Hood Detail H Drawings
H1D	18/2	Supply Air Sensor	Hood 1 Control Panel	See Hood Detail H Drawings
H2S	18/2	Space Temp Sensor Location	Hood 2 Control Panel	See Hood Detail H Drawings
H2E	18/2	Exhaust Temp Sensor	Hood 2 Control Panel	See Hood Detail H Drawings
H2D	18/2	Supply Air Sensor	Hood 2 Control Panel	See Hood Detail H Drawings
H4S	18/2	Space Temp Sensor Location	Hood 4 Control Panel	See Hood Detail H Drawings
H4E	18/2	Exhaust Temp Sensor	Hood 4 Control Panel	See Hood Detail H Drawings
H5S	18/2	Space Temp Sensor Location	Hood 5 Control Panel	See Hood Detail H Drawings
H5E	18/2	Exhaust Temp Sensor	Hood 5 Control Panel	See Hood Detail H Drawings
VAV's				
6-1T		VAV 6-1	Temp Sensor Location	Inputs
6-2T		VAV 6-2	Temp Sensor Location	Inputs
6-3T		VAV 6-3	Temp Sensor Location	Inputs
6-4T		VAV 6-4	Temp Sensor Location	Inputs
6-5T		VAV 6-5	Temp Sensor Location	Inputs
10-1T		VAV 10-1	Temp Sensor Location	Inputs
10-2T		VAV 10-2	Temp Sensor Location	Inputs
10-3T		VAV 10-3	Temp Sensor Location	Inputs
10-4T		VAV 10-4	Temp Sensor Location	Inputs
10-5T		VAV 10-5	Temp Sensor Location	Inputs
Main Comm Room				
CRT1	18/2	Room Temp Sensor	HVAC Panel	Room Sensor for Temp Alarm
				See Note on H1.0A

HVAC LOW VOLTAGE NOTES

Bacnet/485 Network Cable to be 22/3 shielded, plenum rated, stranded conductors (MWC-5171-FBL-Metro Wire or equal)

Network will start at HVAC panel and follow riser diagram (any changes need to be noted for As Built)

Electrician to provide and pull all HVAC low voltage cable

Controls Contractor shall terminate all HVAC network and low voltage cable

Network for Hoods will terminate in the hood control cabinet

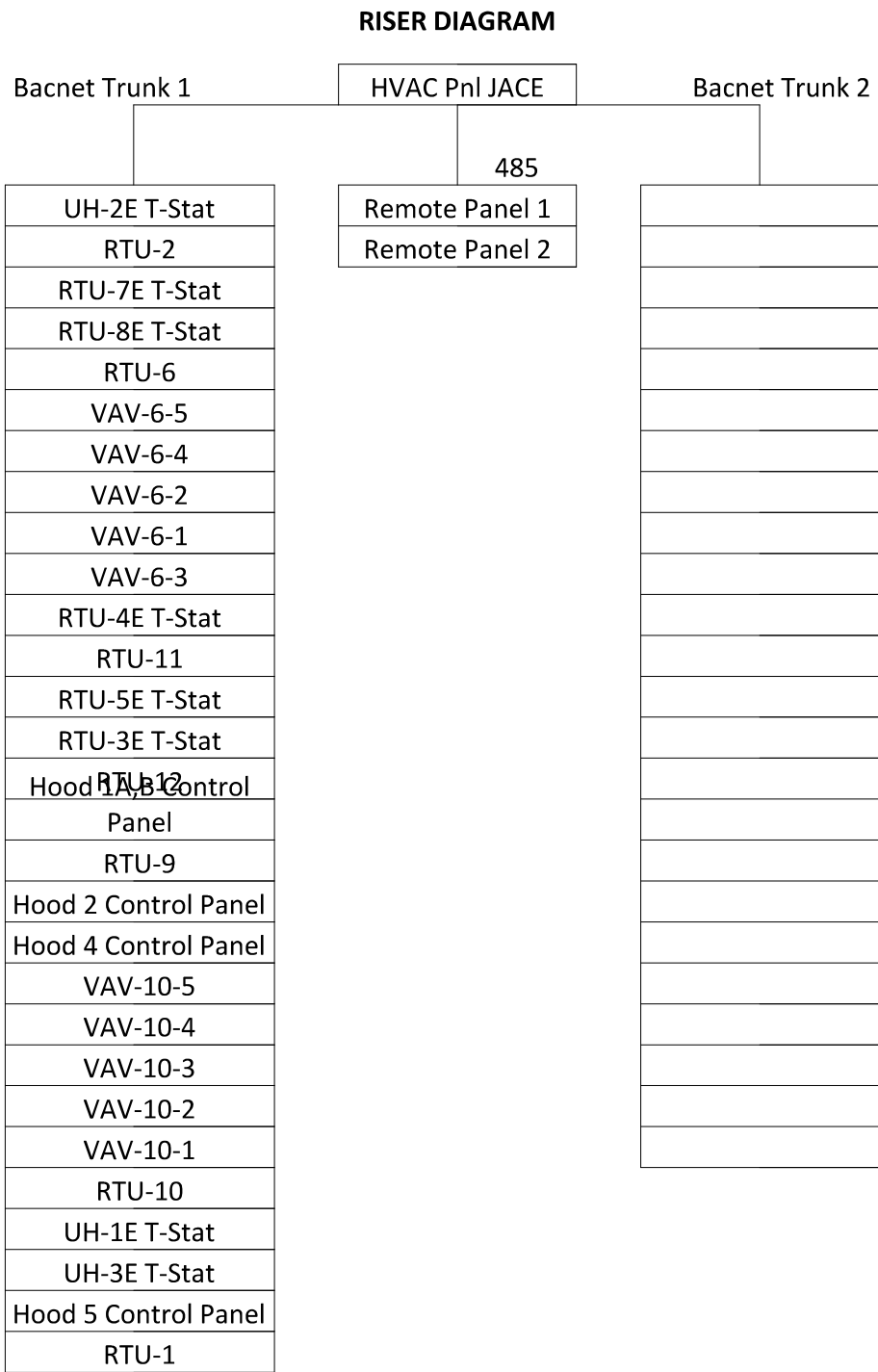
Network for RTU's will terminate in the RTU control panel on roof

Network for VAV's will terminate in the VAV damper section next to electric

Network for UH's will terminate in Thermostat location on wall

Leave 10' of network cable coiled up on each end with labels showing what device cable daisy chains to

All Network cabling shall be run in bridge rings, j-hooks, or cable tray.



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW BY

REVISION

12020 PRODUCE CASE REMODEL08/26/2020

ENGINEER SEAL

SHANNAH EITTER
NUMBER E2001000891
Date: 2020.10.23 11:44:53 -05'00'

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Hussmann Corporation
13770 Bancroft Avenue
(800) 580-4810
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LOCATION

LEE'S SUMMIT #2, MO

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2335

Hy-Vee

EMPLOYEE OWNED

NORTH

PLAN NORTH

CONTROL WIRE PULLS

DRAWN: PSC
SCALE: 12" = 1'-0"
SHEET:

DATE: 11/06/2017
JOB NUMBER: 95954

E6.1

GENERAL NOTES

- SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
- ELECTRICIAN TO PULL AND TERMINATE ALL SENSOR WIRES (22 GA., 2 CONDUCTOR BELDEN NO.8761 OR EQUAL) FROM SENSORS LOCATIONS TO DESIGNATED BOARDS LOCATED IN CORRESPONDING REFRIGERATION RACKS AND PROTOCOLS. VERIFY LOCATION WITH REFRIGERATION CONTRACTOR.
- ELECTRICIAN TO MAKE ALL TERMINAL CONNECTIONS TO THE 16AI BOARD AND 8RO BOARDS.
- ELECTRICIAN TO CONNECT ALL SENSORS AND CONTROL SWITCHES.
- ELECTRICIAN TO CONNECT CPC CONTROLLERS TO 16AI AND 8RO BOARDS (22GA. 3 CONDUCTOR BELDEN NO.8761).
- CPC CONTROLLERS, 16AI BOARDS, AND 8RO BOARDS ARE SUPPLIED AND MOUNTED BY HUSSMANN.
- ALL SENSORS AND CONTROL SWITCHES SUPPLIED AND MOUNTED BY REFRIGERATION CONTROLS CONTRACTOR.
- REFER TO CONSTRUCTION ELECTRICAL DRAWINGS FOR INFORMATION ON REFRIGERATED CASE FANS, CASE LIGHTS, ETC.
- ELECTRICIAN TO MAKE ELECTRICAL TRANSFORMER CONNECTIONS TO ALL CPC CONTROLLERS, 16AI BOARDS, AND 8RO BOARDS.
- ELECTRICIAN TO CONNECT 8RO BOARDS TO CORRESPONDING CONNECTION POINTS INCLUDING CONDENSER FANS.
- ELECTRICIAN TO PROVIDE 110 VOLT CIRCUIT TO EACH CONTROLLER (TYPICAL 3) AND TO REFRIGERANT AND ALARM PANEL. FIELD VERIFY LOCATION.
- ALL NETWORK COMMUNICATIONS WIRING SHOULD BE BELDEN #8761 OR EQUIVALENT. DO NOT RUN COMMUNICATIONS WIRING WITH LINE VOLTAGE.
- ALL CONTROL WIRE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ELECTRICIAN TO PROVIDE (1) 18-2 CABLE TO THE PRODUCE PREP ROOM FROM THE CONTROLLER FOR A CLEAN SWITCH.
- ELECTRICIAN TO SUPPLY (1) 18-2 SHIELDED CABLE FROM THERM-A-STOR WATER RECLAIM TANKS TO ASSOCIATED RACK/PROTOCOL. VERIFY TERMINATION LOCATION WITH REFRIGERATION CONTROLS CONTRACTOR. SEE RS SHEETS FOR DETAILS.
- ELECTRICIAN TO PROVIDE (1) 1" CONDUIT FOR EACH REFRIGERATION CONDENSER FROM PROTOCOL ELECTRICAL PANEL THROUGH ROOF. NO LINE VOLTAGE WIRING SHALL BE RUN IN THIS CONDUIT.
- TEMPERATURE SENSORS FOR WALK-IN COOLERS/FREEZERS ARE FIELD PROVIDED & INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR. FIELD VERIFY LOCATION.
- TEMPERATURE SENSORS FOR EXISTING CASES NOT EQUIPPED SHALL PROVIDED & INSTALLED BY REFRIGERATION CONTRACTOR.

RACK/PROTOCOL KEYNOTES

- ELECTRICIAN TO PROVIDE AND INSTALL A 3 POSITION SWITCH IN MEAT PREP CONTRACTOR AND/OR RELAY AND ANY OTHER NECESSARY HARDWARE TO ALLOW THE REFRIGERATION TO OPERATE IN ONLY ONE OF THESE THREE MODES: 1) EVAPORATOR FANS OFF-REFRIGERATION OFF 2) EVAPORATOR FANS ON-REFRIGERATION OFF 3) EVAPORATOR FANS ON-REFRIGERATION ON. REFRIGERATION CONTROLLED BY A FIELD INSTALLED RELAY WHOSE CONTACTS ARE CONNECTED TO A 22GA BELDEN CABLE. THE BELDEN CABLE TO BE TERMINATED AT ASSOCIATED RACK.
- PROVIDE 120-160 CIRCUIT FOR LINE VOLTAGE THERMOSTAT & LIQUID LINE SOLENOID VALVE IN PRODUCE PREP. WIRING BY ELECTRICAL CONTRACTOR. THERMOSTAT BY REFRIGERATION CONTRACTOR. AND LIQUID LINE SOLENOID PROVIDED SHIPPED LOOSE WITH REFRIGERATION EQUIPMENT. POWER CAN BE ROUTED FROM EVAPORATOR FAN CIRCUIT.
- ELECTRICIAN TO PROVIDE 120 VOLT CIRCUIT AND INTER CONNECTING WIRING FOR FREEZER DOOR SWITCH. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL SOLENOID AND DOOR SWITCH (PART # DS109) WIRING DIAGRAM SUPPLIED WITH DOOR SWITCH.
- ELECTRICIAN TO RUN 18-2 BELDEN CABLE FROM FREEZER DOOR SWITCH BACK TO THE PROTOCOL CONTROLLER FOR THIS FREEZER AND TAG FOR WALK IN FREEZER.
- ELECTRICIAN TO RUN 18-2 BELDEN CABLE TO ASSOCIATED RACK/PROTOCOL. ELECTRICIAN TO CONNECT CASE TERMINATION KLIXONS IN SERIES AND CONNECT TO 16AI BOARD ON CORRESPONDING TERMINAL.
- ELECTRICIAN TO PROVIDE (1) 18-2 CABLE TO THE FUTURE FROM THE CONTROLLER FOR A CLEAN SWITCH. CONTROLS CONTRACTOR TO PROVIDE MOMENTARY SWITCH.
- DUAL TEMP SWITCH FIELD PROVIDED AND INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR (PROTOCOL ONLY).

A THROUGH Z:
CABLE TO BE LABELED WITH SYSTEM NUMBER AND LETTER DESIGNATION SPECIFIC TO SENSOR LOCATION, WHERE THE FIRST LETTER DESIGNATES THE RACK OR PROTOCOL LABEL AND THE NUMBER IS THE SYSTEM # AND THE LAST LETTER IS THE SPECIFIC SENSOR DESIGNATION - LABEL EXAMPLE "A23C" IF ONLY ONE SENSOR FOR A SYSTEM IS REQUIRED - LABEL

ELECTRICIAN TO RUN 22 GA. BELDEN CABLE BACK TO RACK OR PROTOCOL (DESIGNATED BY SYSTEM NUMBER ON PLAN) CPC CONTROLLER AND CONNECT 16 AI BOARD ON CORRESPONDING TERMINAL.

ELECTRICIAN TO RUN CABLE BACK TO CORRESPONDING REMOTE CONTROL PANEL.
EXAMPLE OF REMOTE CONTROL PANEL LOCATION SHOWN.

ENGINEER SEAL

SHANNAN
ENTER
NUMBER
E2001000891
Date
2020.10.23
11:45:30
-05'00'

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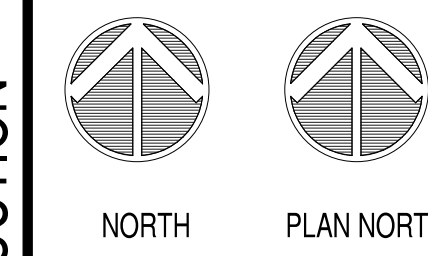
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HY-VEE, INC.
5820 WESTTOWN PARKWAY
WEST DES MOINES, IOWA 52066
TELEPHONE: (515) 267-2500
FAX: (515) 267-2555

Hy-Vee
EMPLOYEE OWNED



CONTROL WIRE
PULLS

DRAWN: PSC
SCALE: 3/32" = 1'-0"
DATE: 11/06/2017
JOB NUMBER: 95954

E7.1

CONTROL WIRE PULLS

SCALE: 3/32" = 1'-0"

RACK/PROTOCOL KEYNOTES

- FOR HOT GAS DEFROST SYSTEMS: ELECTRICIAN TO RUN 14-4 CONDUCTOR (WHITE, BLACK, BLUE, RED, #14THHN) FROM PROTOCOL OUTPUT BOARD AT PROTOCOL TO SYSTEM CDS VALVE AT CASES. FIELD VERIFY CDS VALVE LOCATION WITH REFRIGERATION CONTRACTOR.
 - ELECTRICIAN TO RUN ONE 120V/1PH CIRCUIT FROM PROTOCOL OUTPUT BOARD AT PROTOCOL TO SYSTEM HOT GAS SOLENOID VALVE AT CASES. FIELD VERIFY HOT GAS SOLENOID VALVE LOCATION WITH REFRIGERATION CONTRACTOR.
 - FOR OFF TIME OR ELECTRIC DEFROST SYSTEMS: ELECTRICIAN TO RUN 14-4 CONDUCTOR (WHITE, BLACK, BLUE, RED, #14THHN) FROM PROTOCOL OUTPUT BOARD AT PROTOCOL TO SYSTEM CDS VALVE AT CASES. FIELD VERIFY HOT GAS SOLENOID VALVE LOCATION WITH REFRIGERATION CONTRACTOR.
 - FOR OFF TIME DEFROST SYSTEM ELECTRICIAN TO PROVIDE (1) 120V/1PH CIRCUIT FROM ASSOCIATED RACK/PROTOCOL TO FIELD INSTALLED SOLENOID VALVE. VERIFY TERMINATION LOCATIONS WITH REFRIGERATION CONTRACTOR.
 - ELECTRICIAN TO PROVIDE (1) 220V CIRCUIT FROM ASSOCIATED ROOFTOP CONDENSING UNIT TO FIELD INSTALLED THERMOSTAT AND LIQUID LINE SOLENOID, WIRED IN SERIES. VERIFY LOCATION WITH REFRIGERATION CONTRACTOR. VERIFY TERMINATION LOCATION IN ROOFTOP CONDENSING UNIT WITH REFRIGERATION CONTRACTOR.
 - ELECTRICIAN TO PROVIDE SPLIT CONDENSER WIRING. SEE E7.3 FOR DETAIL.
 - ELECTRICIAN TO PROVIDE HEAT RECLAIM WIRING. SEE E7.3 FOR DETAIL.
- X ELECTRICIAN TO RUN CABLE BACK TO CORRESPONDING REMOTE CONTROL PANEL.
- RCP-A1 EXAMPLE OF REMOTE CONTROL PANEL. LOCATE AS SHOWN.

GENERAL NOTES

- TERMINATIONS BY ELECTRICIAN
- ALL HARDWARE PROVIDED BY CONTROLS CONTRACTOR
- CONTROL WIRES SHALL NOT BE RUN WITH POWER WIRING

REVISION	DESCRIPTION	DATE
1	2020 PRODUCE CASE REMODEL	08/26/2020

ENGINEER SEAL



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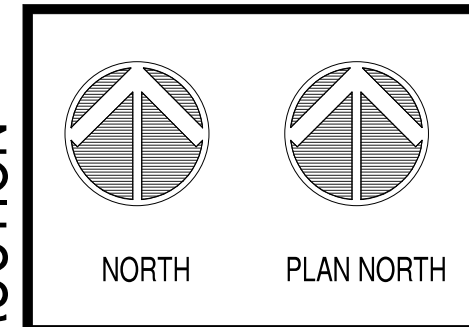
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HyVee
EMPLOYEE OWNED



CONTROL WIRE PULLS

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
3/32" = 1'-0"	95954

E7.2

CONTROL WIRE PULLS

SCALE: 3/32" = 1'-0"

