

HUSSMAN

PROJECT: HY-VEE LEE'S SUMMIT #2

JOB #:

DATE: 8/25/2020

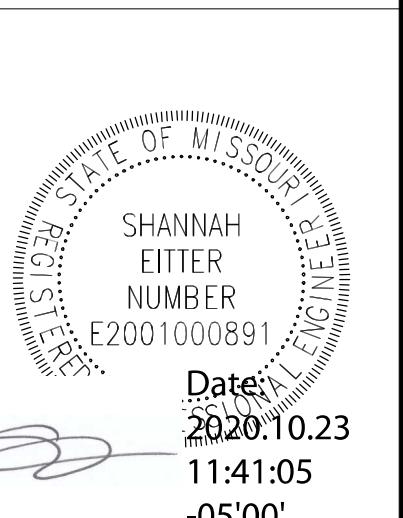
REFRIGERATION UNIT COOLER SCHEDULE (NOTE

FOR UNIT COOLERS NOT ON PROTOCOLS

MARK	DESCRIPTION	MODEL	FAN ELECTRICAL	ELECTRIC DEFROST
			REQUIREMENTS TOTAL (MCA) (NOTE 4)	ELECTRICAL REQUIREMENTS (MCA)
	PRODUCE COOLER	(2) MK26A172	18 AMP/115V/1PH	
	SEAFOOD PREP	(2) GL36A135	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	

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

ENGINEER SEAL



HUSSMANN

PROJECT: HY-VEE LEE'S SUMMIT #

10

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"						

LEE'S SUMMIT #2, MO

The logo for Hive consists of the word "Hive" in a bold, black, sans-serif font. The letter "i" has a small white circle as a dot. To the right of the word, the words "EMPLOYEE OWNED" are written vertically in a smaller, black, sans-serif font.

NOR
REFL
SOC
ANI
ROO
DRAW
PSO
SCAL
12" =
EET:
F

REFRIGERATION SCHEDULES AND MACHINE ROOM LAYOUT

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

B3 0

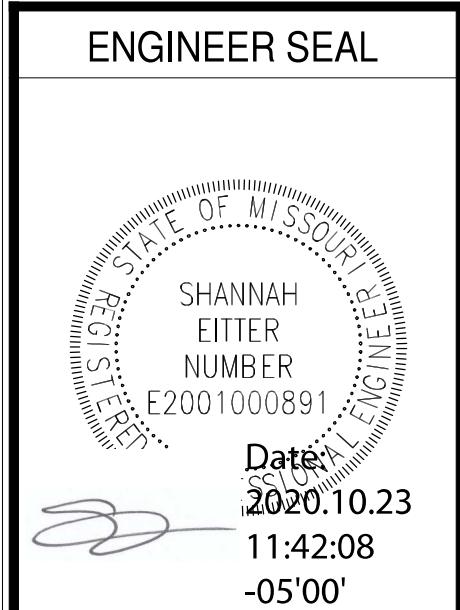
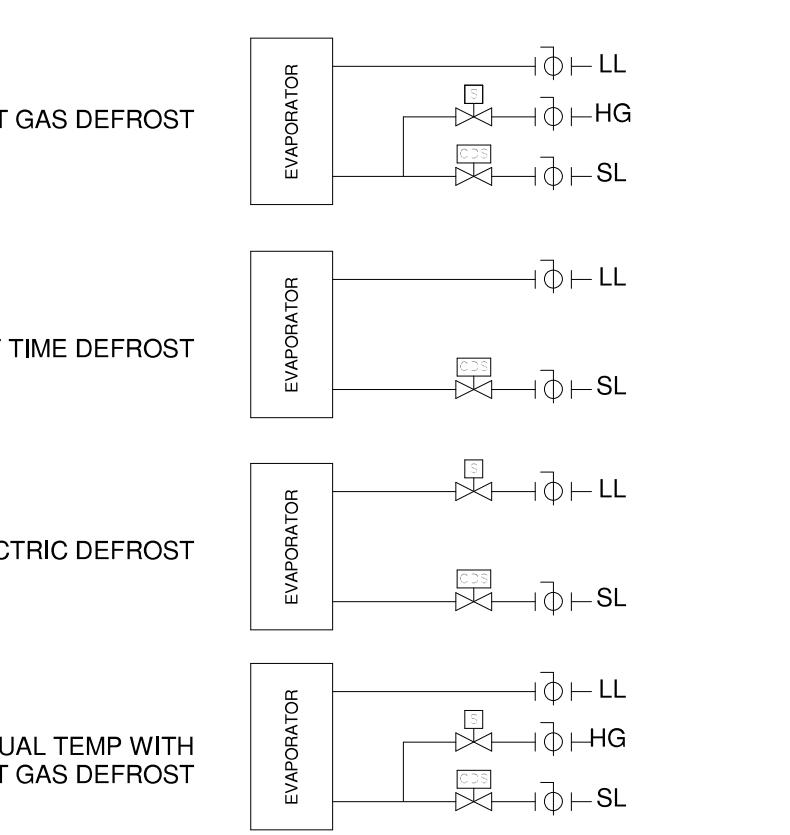
10.0

GENERAL SHEET NOTES

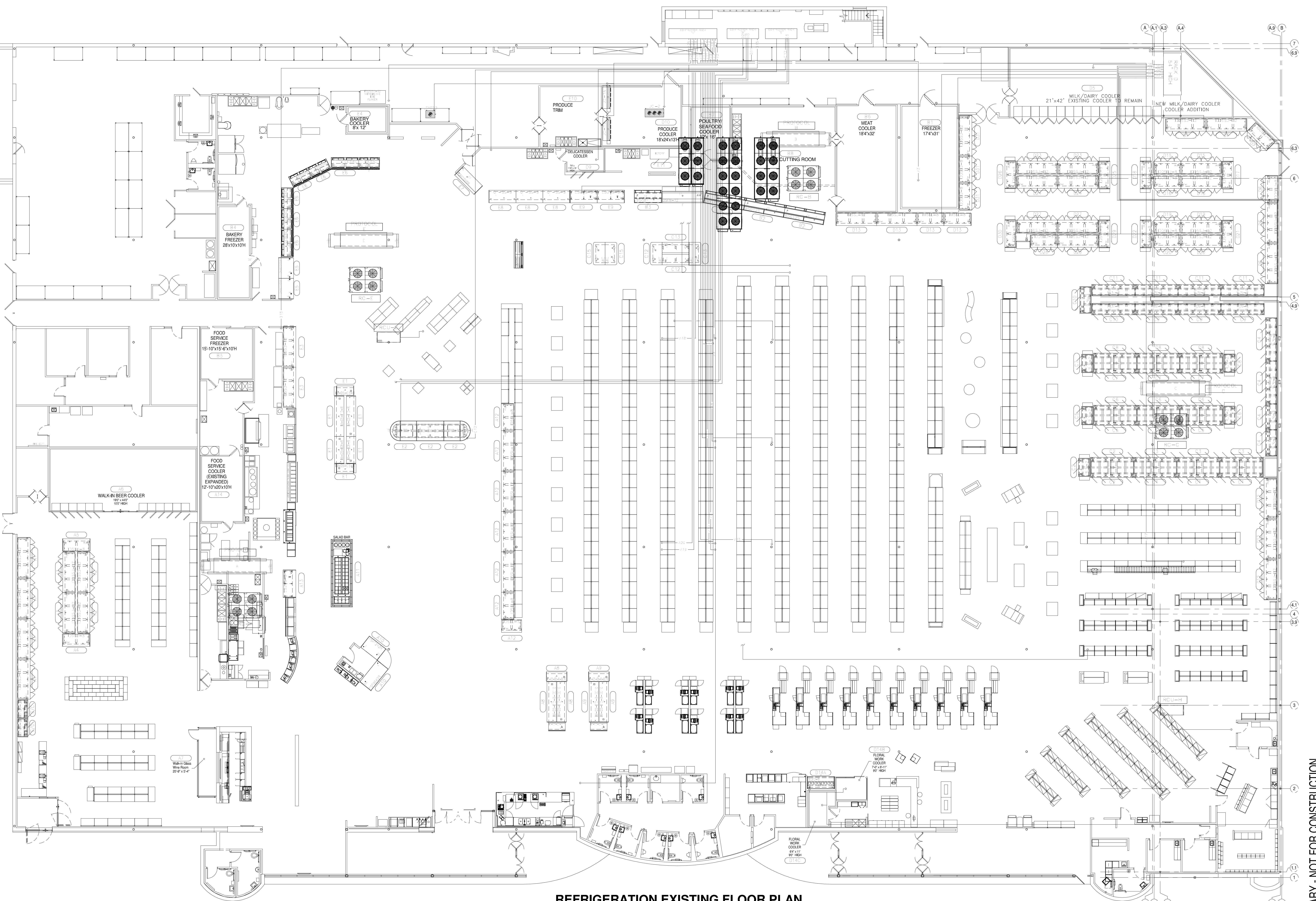
- THESE REFRIGERATION SCHEMATICS ARE FURNISHED ONLY AS A GUIDE TO ASSIST THE CUSTOMER AND ITS ARCHITECT, INSTALLING CONTRACTOR AND MAINTENANCE CONTRACTOR WITH THE OPERATING REQUIREMENTS OF THE LISTED REFRIGERATION EQUIPMENT.
- IT IS THE RESPONSIBILITY OF THE CUSTOMER OR THEIR ARCHITECT TO VERIFY THE ACCURACY OF ALL DIMENSIONS, COMPONENTS AND LINE SIZING WITH THE CONTRACTOR AT THE JOB SITE TO ENSURE 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



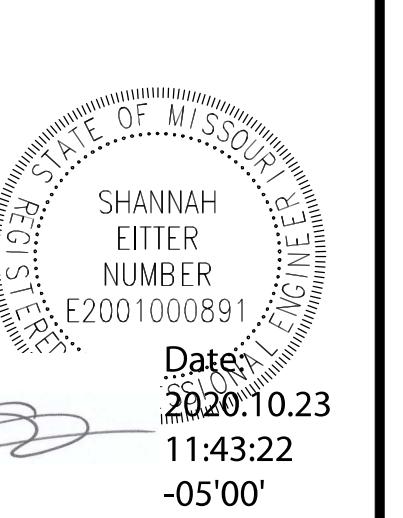
CODE Selection		STORE: HY-VEE LOCATION: LEE'S SUMMIT #2		ASHRAE DESIGN CITY: KANSAS CITY, MO		ATLANTA REFRIGERATION PROTOCOL UNIT LEGEND		CUSTOMER SALES MAN ENGINEER		SHANNAN EITTER, P.E., LEED AP											
QUOTE #: 95954																					
JOB #: 202044010-14 DR5																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					
REFRIGERATOR UNIT COOLER																					



REFRIGERATION EXISTING FLOOR PLAN

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

ENGINEER SEAL



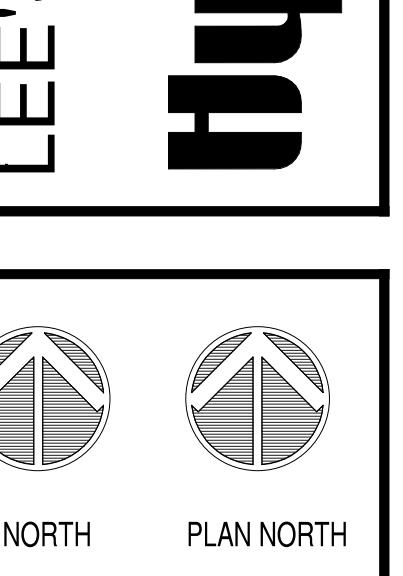
Hussmann

Hussmann Corporation
15000 Bunting Road
Cleveland, Ohio 44110
(903) 590-4910
(903) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK
OF HUSSMANN CORPORATION. IT CONTAINS
PRIVILEGED AND PROPRIETARY INFORMATION
OF HUSSMANN CORPORATION, AND INFORMATION
SHALL NOT BE COPIED, REPRODUCED, OR
DISCLOSED TO OTHERS EXCEPT AS PROVIDED
SHALL SUCH INFORMATION BE FURNISHED IN
WRITING AND APPROVED BY HUSSMANN
CONTRACTOR. THE INFORMATION CONTAINED
HEREIN IS PROVIDED FOR THE USE OF THE
PRIORITY WRITTEN CONSENT OF HUSSMANN
CONTRACTOR. © HUSSMANN CORPORATION 2010
REPRODUCTION OF THIS DRAWING IS PROHIBITED
BY LAW.

NOTICE OF NONRESPONSIBILITY
All planning and electrical and refrigeration drawings
are furnished by the architect and are the property of
Customer with store fixtures and its operating
requirements. Customer shall be responsible for
any damage to the drawings. All specifications involving refrigeration
requirements are the responsibility of the architect and
Customer. The use of this drawing for structural or
architectural purposes is the responsibility of the architect.
The responsibility of the architect, Structural, Electrical and
Mechanical, is limited to the preparation and coordination
of all dimensions and references. The architect
and Customer shall be responsible for the work of
contractors and shall be responsible for the long-term
contractors to specifications and all applicable codes.

HY-VEE, INC.
5820 WESTON PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2835



NORTH
PLAN NORTH

REFRIGERATION
EXISTING FLOOR
PLAN

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

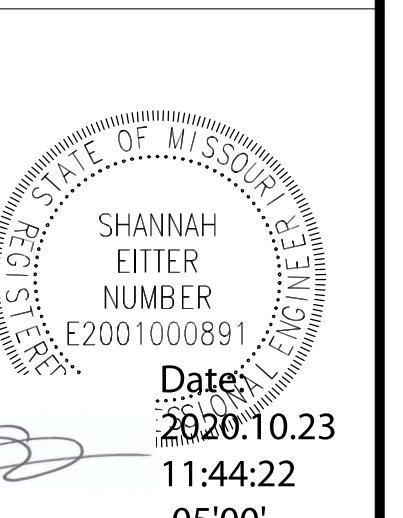
DATE:
11/06/2017

REVISION:

R4.4

PRELIMINARY - NOT FOR CONSTRUCTION

ENGINEER SEAL



HUSSMANN

THIS DOCUMENT IS THE COPYRIGHTED WORK
OF HUSSMANN CORPORATION. IT CONTAINS
PROPRIETARY INFORMATION AND TRADE SECRETS
OF HUSSMANN CORPORATION. AND INFORMATION
SHALL NOT BE COPIED, REPRODUCED, OR
DISCLOSED TO OTHERS, IN WHOLE OR IN PART,
SHALL SUCH INFORMATION BE FURNISHED IN
WRITING, ORAL, OR BY DRAWING. IT IS THE
PRIOR WRITTEN CONSENT OF HUSSMANN
CORPORATION THAT THIS INFORMATION
SHALL BE USED BY OTHERS. THIS DRAWING
IS THE PROPERTY OF HUSSMANN CORPORATION.
REPRODUCTION OF THIS DRAWING
BY OTHERS IS PROHIBITED.

HY-VEE, INC.
3820 WESTON PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2895

HY-VEE
EMPLOYEE OWNED

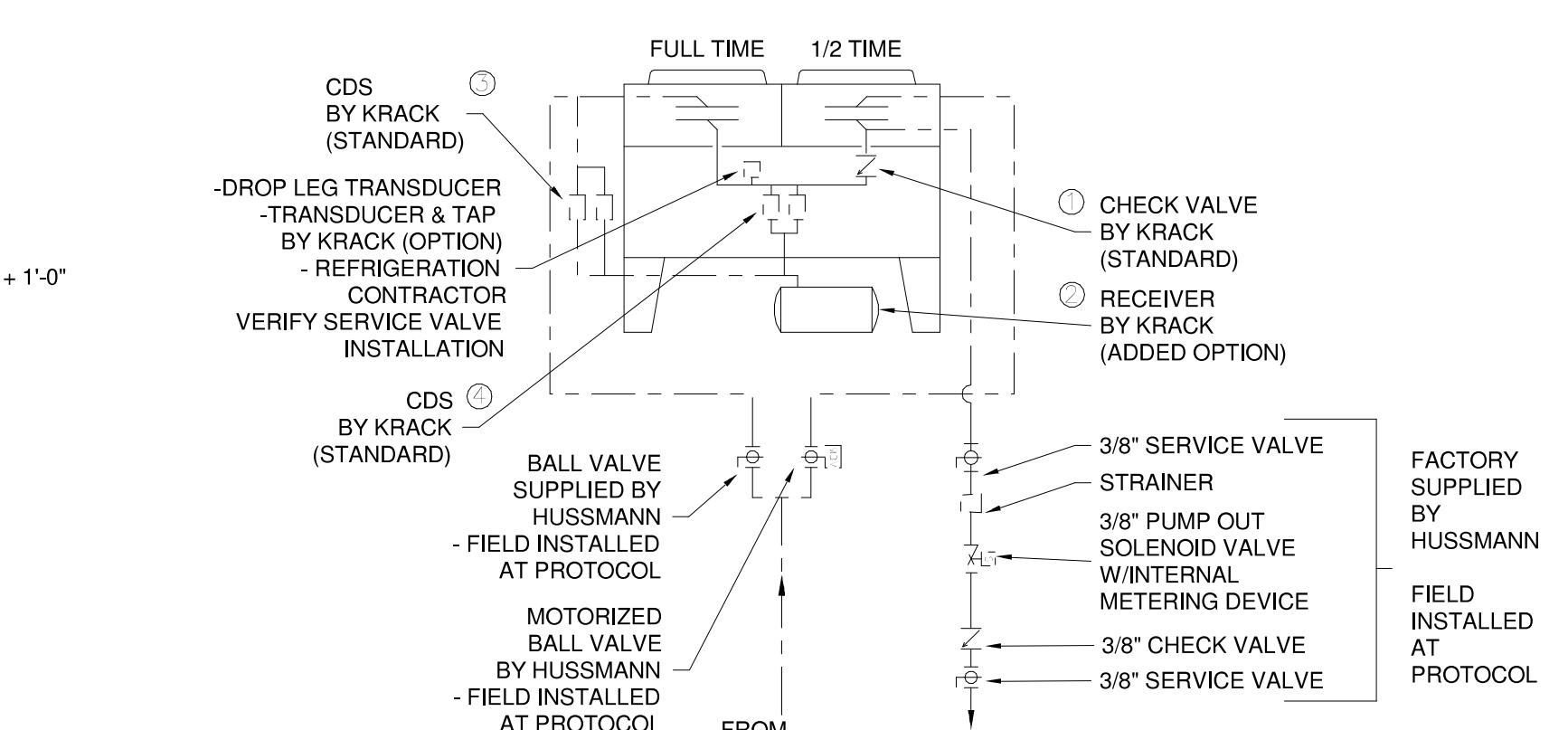
LOCATION
LEE'S SUMMIT #2, MO



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

R5.1

PRELIMINARY - NOT FOR CONSTRUCTION



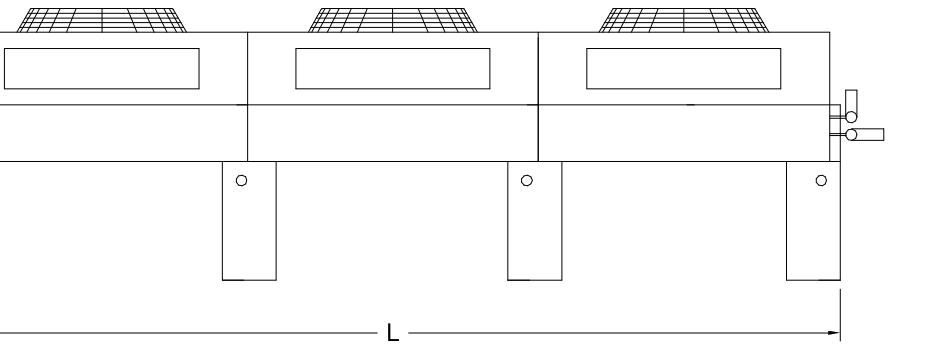
NOTES:
1. ADD GRAVITY DAMPERS TO THE PUMP OUT SIDE OF THE
CONDENSER WHEN THE PUMP OUT LINE IS CONNECTED TO
THE SUCTION HEADER WITH A SUCTION TEMPERATURE
GRV.
2. PIPE PUMP OUT LINE TO THE SUCTION HEADER
WITH THE LOWEST SUCTION PRESSURE WHERE AT
LEAST ONE COMPRESSOR IS OPERATING AT ALL TIMES.
3. DO NOT USE VALVES THAT COME WITH CONDENSER.
USE THE SUPPLIED SHIPPED LOOSE CDS VALVES

10

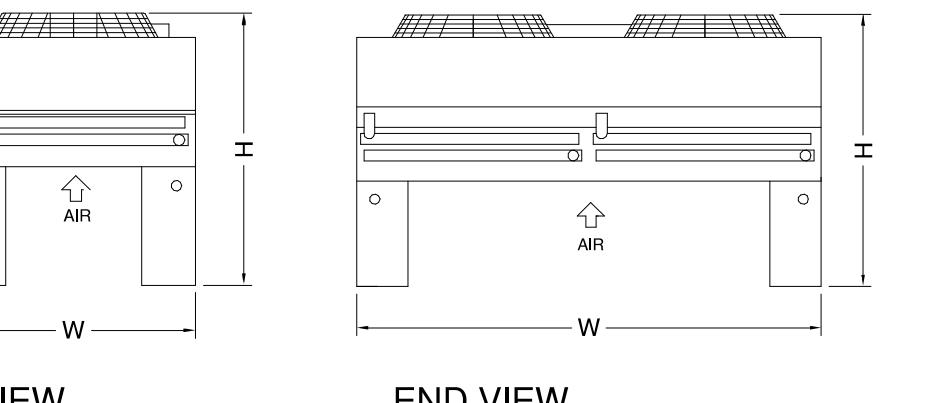
PROTOCOL SPLIT CONDENSER DETAIL

NTS

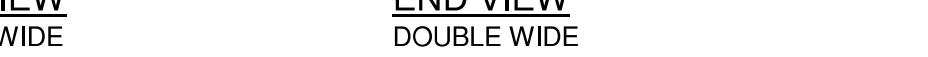
CONDENSER DIMENSIONS		
ONE FAN WIDE	L	H
LAV-12"	50	45-1/4
LAV-12"	112	45-1/4
LAV-13"	166	45-1/4
LAV-14"	220	45-1/4
LAV-15"	274	58-1/2
LAV-16"	328	58-1/2
TWO FAN WIDE	L	H
LAV-23"	166	90-1/2
LAV-23"	196	90-1/2
LAV-24"	220	90-1/2
LAV-25"	274	98-1/2
LAV-26"	328	98-1/2



SIDE VIEW



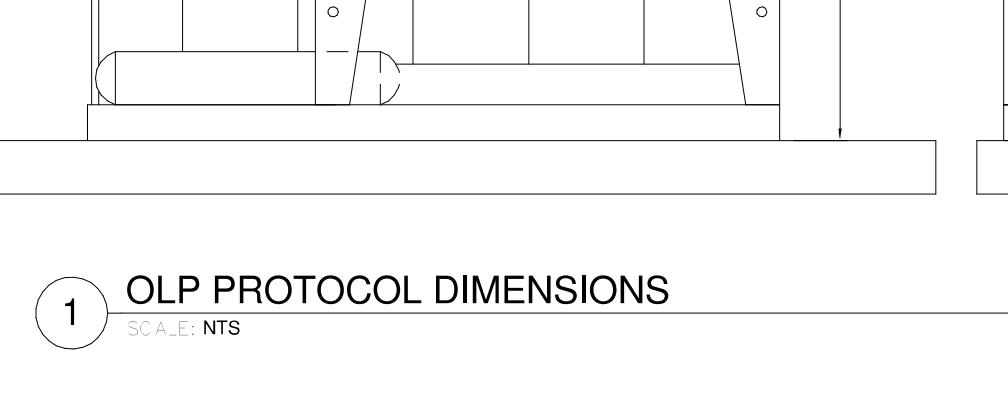
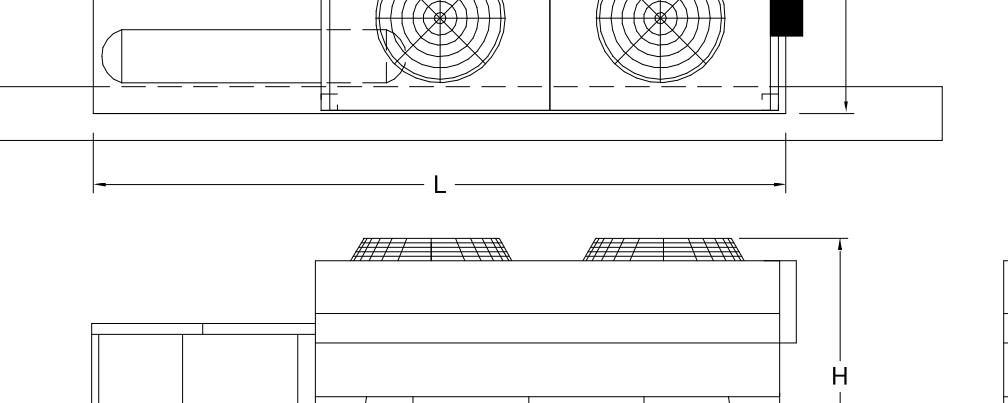
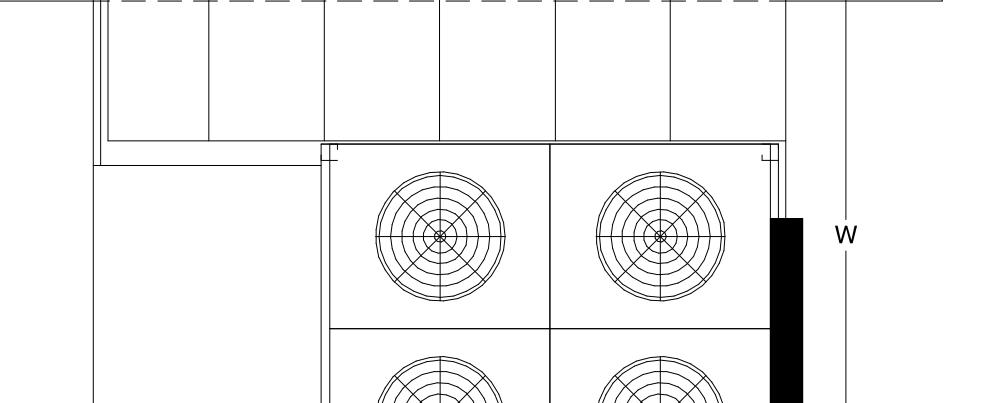
END VIEW
SINGLE WIDE



END VIEW
DOUBLE WIDE

CONDENSER DIMENSIONS

SEE CONDENSER INSTALLATION
DETAILS FOR OLP RAIL INSTALLATION



1 OLP PROTOCOL DIMENSIONS

NTS

11:44:22

-05'00"

12

RACK DRAIN PAN

12

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

RACK LENGTH + 1'-0"

RACK WIDTH + 1'-0"

4"

NOTES:
1. ALL JOINTS TO BE WATER-TIGHT.
2. PAN BY REFRIGERATION CONTRACTOR.
3. SEE CONDENSER SCHEDULE
FOR RACK DIMENSION

W/ PLUG
DO NOT DRAIN TO FLOOR SINK

7/8" MPT CONNECTION

ALL AROUND

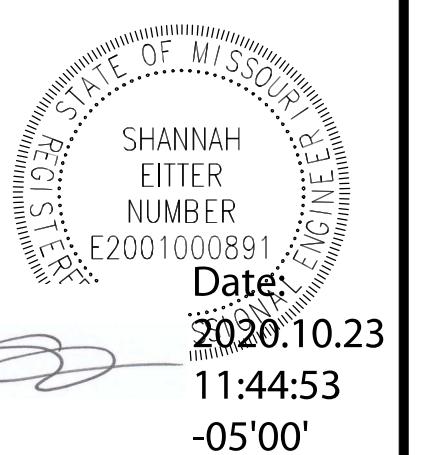
22 GAUGE
GALVANIZED
SHEET METAL

FOLDED LIP
ALL AROUND

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
Bacnet485 Network Cable to be 22/3 shielded, plenum rated, stranded conductors (MWC-5171-FBL-RIB 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.

ENGINEER SEAL

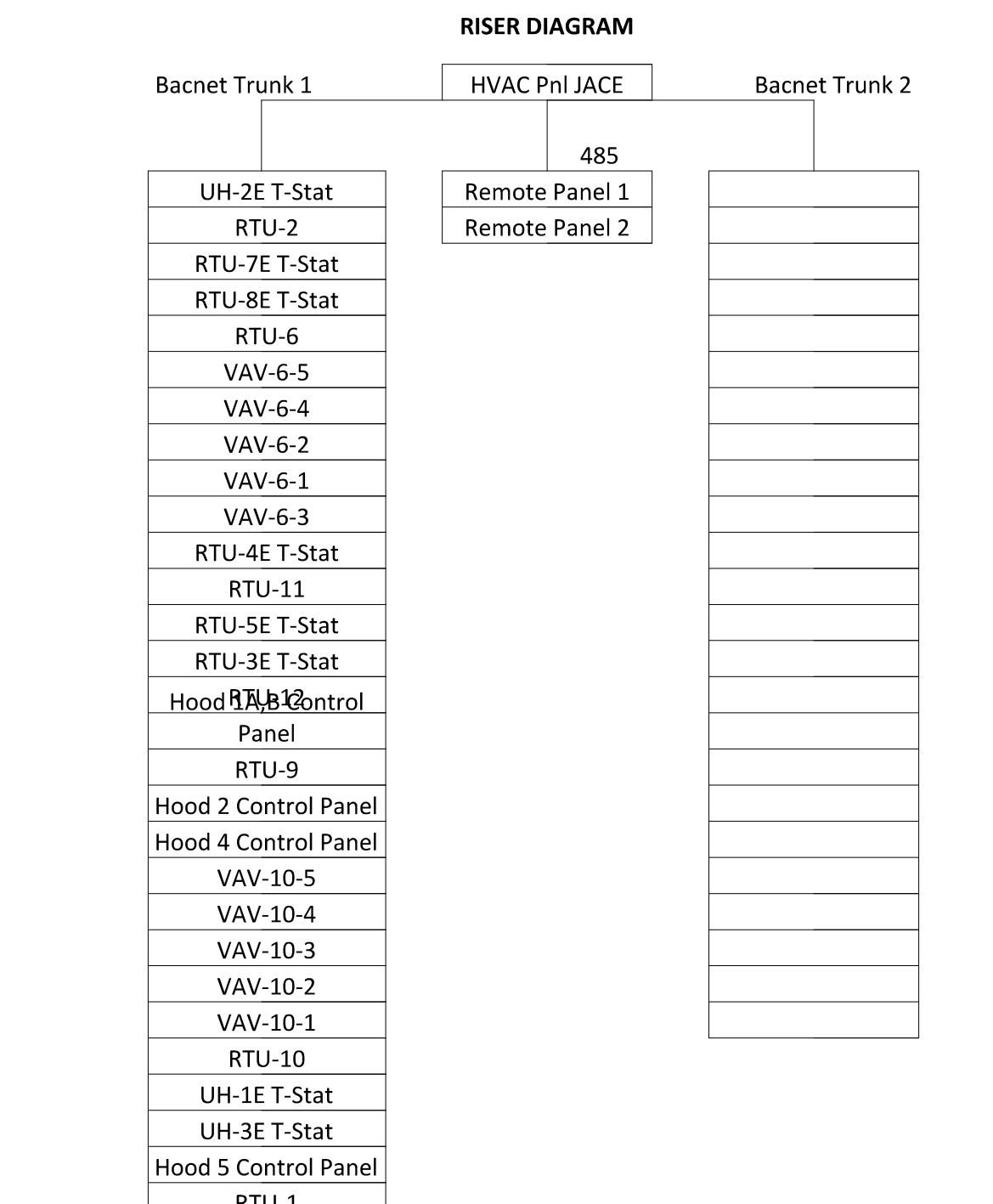


HVAC Low Voltage Cable Schedule

Cable ID #	Cable	To:	From:	Description	Notes
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

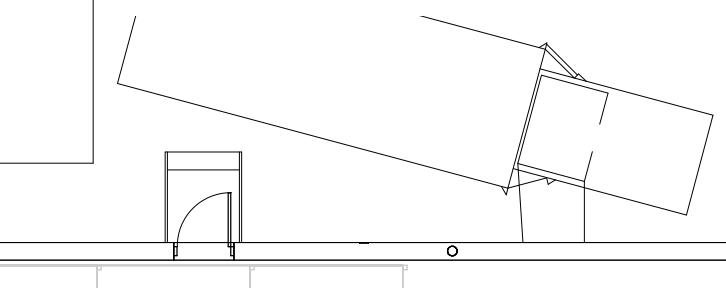
Bacnet485 Network Cable to be 22/3 shielded, plenum rated, stranded conductors (MWC-5171-FBL-RIB Metro Wire or equal)
Network will start at HVAC panel and follow riser diagram (any changes need to be noted for As Built)
Electrician to provide and pull all HVAC low voltage cable
Controls Contractor shall 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.



RACK/PROTOCOL KEYNOTES

1. 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.
2. 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 CDS VALVE LOCATION WITH REFRIGERATION CONTRACTOR.
3. 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.
4. 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.
5. ELECTRICIAN TO PROVIDE SPLIT CONDENSER WIRING. SEE E7.3 FOR DETAIL.
6. ELECTRICIAN TO PROVIDE HEAT RECLAIM WIRING. SEE E7.3 FOR DETAIL.

RCP-A1 EXAMPLE OF REMOTE CONTROL PANEL
LOCATE AS SHOWN.



GENERAL NOTES

1. TERMINATIONS BY ELECTRICIAN
2. ALL HARDWARE PROVIDED BY CONTROLS CONTRACTOR
3. CONTROL WIRES SHALL NOT BE RUN WITH POWER WIRING

REVISION
1 2020 PRODUCE CASE REMODEL 08/28/2020

RELEASE FOR CONSTRUCTION
AS NOTED ON THIS DRAWING
BY: HY-VEE SERVICES
LEE'S SUMMIT, MISSOURI

