

REVISION 1 2020 PRODUCE CASE REMODEL

HUSSMANN

DATE: 8/25/2020

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

| ATION UNIT COOLER SCHEDULI | E (NOTE 1) | FOR UNIT COOLERS NOT ON PROTOCOLS | | | | | | | | | |
|----------------------------|--|---|-------------------------------|--|--|--|--|--|--|--|--|
| | KRACK | FAN ELECTRICAL | ELECTRIC DEFROST | | | | | | | | |
| DESCRIPTION | MODEL | 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 | | | | | | | | | |
| | | | | | | | | | | | |
| | DESCRIPTION PRODUCE COOLER SEAFOOD PREP DAIRY COOLER FLORAL COOLER | DESCRIPTION MODEL PRODUCE COOLER (2) MK26A172 SEAFOOD PREP (2) GL36A135 DAIRY COOLER (5) KR46A216 FLORAL COOLER LH26A94 | KRACK FAN ELECTRICAL | | | | | | | | |

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

HUSSMANN

10/22/2020

PROJECT: HY-VEE LEE'S SUMMIT #2

JOB #:

ROOF EQUIPMENT SCHEDULE

| | | HUSSMANN / | ELECTRICAL | ELECTRICAL | UNIT | | |
|-------------------------------|-----------------------------|------------|----------------------|---------------------|--------------|-----------------------|-------|
| MARK | DESCRIPTION | MODEL | REQUIREMENTS (MCA) | REQUIREMENTS (MOPD) | 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" | | | | | | |

ENGINEER SEAL NUMBER E2001000891 ;

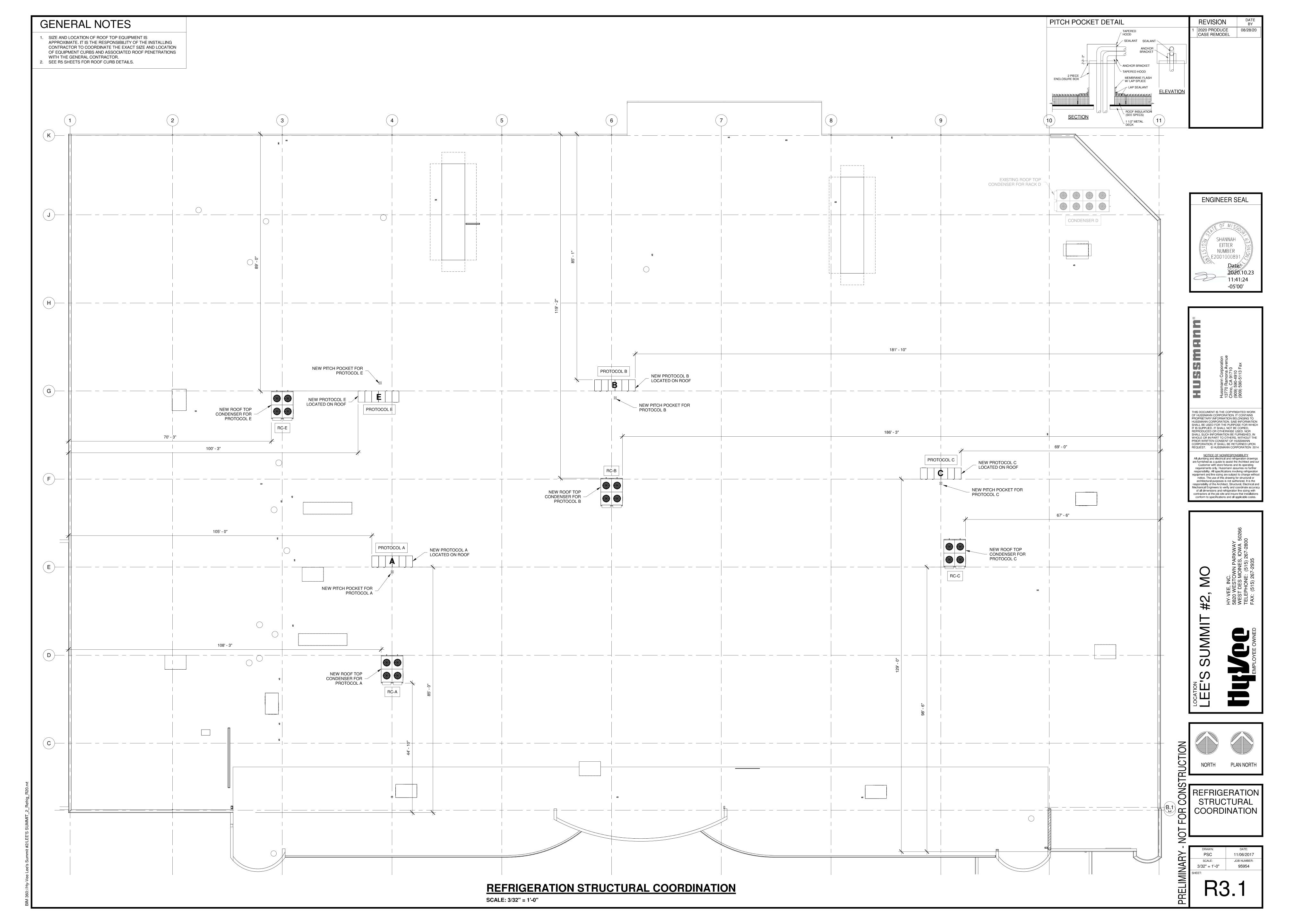
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SCHEDULES
AND MACHINE
ROOM LAYOUT



| | | | | | | | | R/ | ACK D | | C | USTOM | IER | | Н | Y-VEE | | | | | | | | | | RACK D | | Ţ | COM | IPONENT M | ANUFAC | CTURER |
|------------|-----------------|-------------------------|--------------------|-----------------------|----------------|-----------|-------|---------------|--------------|-------------------|---------|----------|------------|-------|------------|------------------|----------|-------------|-----------|----------------|---------------|---|--------------------------|----------------|---------|-------------------|---------------|-----------|----------|---|-----------|-------------|
| | | | : HY-VEE #2 | | | | | | | | C | ONTAC | Т | | | | | | | | | ORE: HY-VEE #2 | | | | | | Ţ | so | LENOID VLV: | SP | PORLAN |
| | | LOCATION: | : LEE'S SUMMIT, MO | | | | | | | | S | ALESPE | ERSON | | | D COOK | | | | | LOCAT | ION: LEE'S SUMN | NIT, MO | | | SPEC USED | D / DATE | 4/16/2002 | I | BALL VALVE: | MUF | ELLER FP |
| | | QUOTE / JOB #: | : 95954 | | | | | | | | E | NGINEE | R | SHA | ANNAH EITT | ΓER, P.E., LE | _EED AP | | | Q | QUOTE / JC | OB #: 95954 | REMOTE | CONDEN | SER | MECH NOTE | ES PAGE | NO | CH | IECK VALVE: | MU | UELLER |
| G | RE | FRIGERATOR/UNIT CO | OLER | DIS RE | .Q'D | | - 17 | NPUTS | | В | RANCH | KITS | | | ELEC | CTRIC DEFRO | OST | | 120V E | LEC | DEFRO | OST/ FANS EVA | P REFER: | 120 | D | STORE I | DESIGN | CONDIT | TONS | PAGE: | 1 OF | • |
| R SYS | | | | AIR CA | AP EV | VP DEF | DEF Γ | DI AI | INST | TALLED | | FIELD | INSTAL | .L | 208V | (REN | MOTE) | FAN | LT | AS SUP | 208V/1 20 | 08V/3 RISER TXV | MODEL: | LCV V 8 | 3408K | AMBIENT | TEMP: | 10 | 0 | DATE: | 8/ | /6/2002 |
| Р # | SIZE | MODEL | DESCRIPTION | TMP (ME | BH) TM | MP TYPE | TER | 26 | VLV S | L CS | LL S | SL LL | SBV | LBV | KIT KIT | KIT K | KIT KIT | AMP A | AMP | HTR AMP | | SIZE EGV | E CNTRL: | CPC EIN | STEIN | INSIDE TEI | .MP/RH: | 75/ | 55 | BY: | | JRH |
| | | | | | | | | | | | | | | | | | | | | | | | FAN CNTR: | CPC V08 | KB412 | ALTITUDE (| (FEET): | C | | QUOTE: | ٤ | 95954 |
| | | | | | | | | | CDS | | | | | | | | | | | | | | THR (BTUH): | 7467 | 79 | COND. | . TEMP: | 11 | 5 | FILE: | 1 | |
| 1 | SPARE | | | | | KG 1 | TIME | 1 | 4 200 | CD 9 | BD 1 | 45 1/2 | 1 1/8 | 7/8 | | | | | | | | 1 1/8 | HR (BTUH): | | | REFRIGE | ERANT: | R40 | 14A | RACK | . PHYSIC# | AL SPECS |
| 2 | SPARE | | | | | KG 1 | ГІМЕ | 1 | 9 200 | CD 9 | BD 1 | 66 1/2 | 1 1/8 | | | | | | | | | 1 1/8 | TD (DEG): | 15. | 2 | COMP | P TYPE: | Copeland | d Scroll | DIMEN: | See M | Mech. Notes |
| 3 | SPARE | | | | | KG 1 | ГІМЕ | 1 | 9 200 | CD 9 | BD 1 | 96 1/2 | 1 1/8 | | | | | | | | | 1 1/8 | WGT (LBS): | 267 | 0 | COMP | P VOLT: | 208/3 | 3/60 | WEIGHT: | for | r Details |
| 4 | SPARE | | | | | KG 1 | ГІМЕ | | SOV 16E | EB 9 | BD | | | | | | | | | | | 1 1/8 | CHG (LBS): | 240 |) | CNTRL | _ VOLT: | 120/1 | 1/60 | RE | CEIVER S | SPECS |
| DL | | | | | -2: | 23 | | | | | | | | | | | | | | | | | FPI: | 8 | | COND | D VOLT: | 208/3 | 3/60 | DIMEN: | 14" | "D x 132" |
| | | | | | | | | | | | | | | | | | | | | | | | DIM: | 220"x96 | 5"x55" | | 120 | 208 | 460 | CAP: | | 535 |
| 5 | 22x66x10+17 DRS | (5)KR46A216 | DAIRY COOLER | 36 90. | .86 2 | 26 OT 1 | ГІМЕ | 5 | 9 100 | CD 9 | CD 1 | 29 7/8 | 1 3/8 | | | | | | | | | 1 1/8 | FLA: | 35.2 @ | 200V | MCA: | 16 | 297 | | О | IL COOLE | ER |
| 6 | SPARE | (0) | | | | OT 1 | TIME | 4 | 9 100 | CD 9 | CD 1 | 02 5/8 | 1 3/8 | | | | | | | | | 1 1/8 | FANS: | 2x4 850 | RPM | MOPD: | 20 | 350 | | MODEL: | | |
| 7 | 32 | IDD5SU | DAIRY | 38 7.8 | .84 34 | 34 OT 1 | ГІМЕ | 5 | 9 100 | CD 9 | CD 1 | 34 7/8 | 1 3/8 | | | | | | | | | 5/8 | DAMPERS: | | | FLA: | | 282 | | CNTRL: | | |
| 8 | 357 FT^2 | (2)GL36A135 | SEAFOOD PREP | 55 49. | | | TIME | | | CD 11 | | | | | | + | | | | | | 1 3/8 | FIN COAT: | | | | TACTOR | SQUA | RE D | DIMEN: | | |
| 9 | 8x12x10+3DRS | KR26A125 | DELI COOLER | | 0.40 24 | | TIME | | | CD 9 | | | 7/8 | 5/8 | | | | | | | | 7/8 | LEGS: | | | | REAKER | SQUA | | WEIGHT: | | |
| 10 | 18x24x13 | | PRODUCE COOLER | | - | | TIME | | 9 200 | | | 64 5/8 | | 0/0 | | + | | | | | | 1 1/8 | _ | 50% REDI | ICTION | | MA / DP | NEM | | RLA: | | |
| 11 | 14x20x10 | (2)MK26A172 GL56A225 | KITCHEN COOLER | 34 17. | | | | | 9 100 | | | | | | | | | | + | | | 7/8 | | N GROUP: | DL | DL | | DR | DR | DR | DR | DR |
| | | DSFM | SEAFOOD | | | 24 OT 1 | | | | ם טכ | | | | 1 1/0 | | | | - | + | | | 1/0 | — | | | | | | | | | |
| 12 | 12 | _ | | 31 3.6 | | | | 2 | | | | | 1 1/8 | 1 1/8 | | | | + | - | | | 1 1/0 | | PRESSOR: | ∠rudN4E | 2F24N4E | | ZF18K4E | 2F33N4E | ZF40K4E | 2F46N4E | ZF48K4E |
| 13 | 40 | IM5SL | MEAT | 31 43. | | 27 OT 1 | | | 9 100 | | | 18 5/8 | 1 3/8 | | | | | + | | | + + | 1 1/8 | QUANTITY: | 7 OD 400V- | 1 | 1501 | | 1 | 1 | 1 | 1 | 1 |
| 14A | 8 | BGFO | FLORAL | | | 25 OT 1 | IME | \perp | SOV 42E | <u>=R 8 </u> | RD | | | | | | | | | | | 7/8 | COMPRESS | | 53GL | 45GL | | 21GL | 23GL | 47GL | 64GL | 64GL |
| 14B | 1 | ASD | FLORAL | | 2.50 25 | | | | | | | | | | | | ' | | | | | | | SSOR HP: | 3 | 7.5 | | 6 | 10 | 13 | 15 | 15 |
| 14C | 6x14x10 | LH26A94 | FLORAL COOLER | 34 7.3 | .30 24 | 24 | | | | | | | | | | | | | | | | | | ON TEMP: | -23 | -23 | | 22 | 22 | 22 | 22 | 22 |
| | LOOP 14 | | | | | | | | | | | | | | | | ' | | | | | | SUBCOOLI | NG TEMP: | | | | | | | | |
| 15 | LOOP | SYSTEMS 15-27 | | 111 | 1.94 28 | 28 | | | | | | | | | | | | | | | | | CAPACIT | Y (BTUH): | 7994 | 22645 | | 49190 | 83698 | 102057 | 117365 | 117365 |
| | | | | | | | | | | | | | | | | | | | | | | | PO | VER (KW): | 2.260 | 5.986 | | 6.115 | 11 244 | 13.479 | 16.565 | 16.565 |
| | | | | | | | | | | | | | | | | | | | | | | | HEAT OF RE | J (BTUH): | 15706 | 43076 | | 70061 | 122073 | 148059 | 173902 | 173902 |
| | | | | | | | | | | | | | | | | | | | | | | | | CAP FAC: | | | | | | | | |
| R | | | | 391 | 6.68 22 | 22 | | | | | | | | | | | | | | | | | ECO | N/SC CAP: | | | | | | | | |
| | | | | + + | | _ | | | | | | | | | | | | | | | | | | WER FAC: | | | | | | | | |
| | | | | + | $\overline{}$ | | | + | | \rightarrow | | | | | | | | | | | | | | N POWER: | | | | | | | | |
| | | | _ | | | | | \rightarrow | | \rightarrow | | | | | | | | | | | | | | | | | | - | | + | | |
| | | | | | | | | | | \longrightarrow | | | | | | | | | | | | | | TER(VSD): | 0057 | 99FZ | | | | | | |
| | | | | | - | | | | | \longrightarrow | | | | | | | | | | | | | DEM COOL | | 99FZ | 99FZ | | | | | | |
| | | | | | | | | | | \perp | | | | | | | | | | | | | SUCTION | | | | | | | | | |
| | | | | | | | | | | \perp | | | | | | | | | | | | | | IULATOR: | | | | | | | | |
| | | | | | | | | | | | | | | | | | ' | | | | | | | ILOADER: | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | ION SIZE: | 7/8 | 1 3/8 | | 7/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 5/8 |
| | | | | | | | | | | | | | | | | | | RACK N | MODEL | : | | CS0207SDK | | R MODEL: | | | | RSF487T | RSF4811T | RSF4811T | RSF4813T | T RSF4813 |
| N | IT ACCESS. | KIT | VENDOR/MODEL | UNIT ACCE | ESS. | WM | KIT | VEN | IDOR/MODEL | L UNIT | T ACCE | SS. | | | KIT | VENDOR/MO | ODEL | | SYS | TEM (MBH) | l l | REQ AVAL % | FILT | ER CORE: | RPE48BD | RPE48BD | F | RPE48BD | RPE48BD | RPE48BD | RPE48BD | RPE48BE |
| SR (If App | lied) | YES | On this Rack. | EQL LINE | BV | | 16WF | | 7/8 | ELE | CTRICA | L ASSY | | | 14PB | | | | | DL | | 30.6 | DISCHA | RGE SIZE: | 1/2 | 7/8 | | 1/2 | 7/8 | 7/8 | 1 1/8 | 1 1/8 |
| L REGUL | ATOR | 28WD | TRAXOIL | BV TO CO | ND | | 20DF | | 2) 2 1/8 | MEC | CH DEFI | ROST TII | MER | | | | | | | DR | 3 | 396.7 469.7 84 | CHECK | VALVES: | | | | | | | 1 | |
| RANKCAS | SE HTRS | NO | | BV FRM C | OND | | 20DF | | 2) 2 1/8 | ELF | C DEFF | OST PA | NEL | | | | | | | | | | V | /IRE SIZE: | 12 | 8 | | 8 | 4 | 3 | 3 | 3 |
| JCTION F | ILTER | SPOR | SPORLAN STEEL | BV TO HT | RCLM | | | | | DEF | PANEL | ELEC A | ASSY | | | | | | | | | | _ | NTACTOR: | NEMA 0 | NEMA 2 | | NEMA 1 | NEMA 2 | NEMA 3 | NEMA 3 | NEMA 3 |
| ACK ASS | | 06SP | | BV FRM H | | | | | | | | S PROT | | | 01EK | | | | | | | | | BREAKER: | 15 | 50 | | 40 | 70 | 90 | 100 | 100 |
| ACK ACC | | ALL | | LIQ DRIER | | | 44WM | | 19217GR | | | POWER | CONN | | 01PW | | | | | | | | | RLA: | 9.7 | 30.9 | | 23.9 | 44.9 | 52.9 | 60.0 | 60.0 |
| ECEIVER | | HS32 | STANDARD REC | LIQ DRIER | | 3 | | +- | | | | DELAY | | | | Thru contro | roller | | | | | | CRANKO | ASE HTR: | * | | | • | -35 | | | |
| CEIVER | | 02RA | | DIFFEREN | | | 52WM | | R-20 2 1/8 | | | R CNTR | | | 70DP | | | _ | | | | | | CSR: | | | | | | | | |
| BRATION | | 07SS | PADS | DIFF NORM | | - | NO | | | | | R CTRL | | | | | | NOTE | s. | | 500. | .3 | HEVI | FAN KIT: | | | | | | | | |
| AT MOD | JOL | 0,00 | 1 ADS | | | int Otal | 34FV | 100 | 1 5/8P 2 1/8 | | | | | | | | | | | 100 " = : = : | | | | r i Aux IXII i | | | | | | | | |
| L RESER | VOIR | 99OR | | LIQ DRAIN REC PRES | | int Ctrl) | 59RP | | A9 5/8 | | LOCKO | | | | | | | | | | | SPECIAL HEIGHT REQUESTED SELECTION SPECIAL HEIGHT REQUESTED SELECTION SPECIAL PROPERTY OF THE SPECIAL | | | | _ | | | | | | |
| HP LOOS | | 990R 15PO | POE OIL | SURGE PIF | | | | | <u></u> | | | CNTRL | | | | | | IVIAAIIVIUI | IVI OF 54 | + IILIGHT. DIN | INITINOIONO 2 | TOULD BE 130 LX04"W | ^J+ II. LO I. W I. 03UU# | + | | | | | | | | |
| IL SEPAR | | | | SURGE PIL | -1114 | | | | | | | | | | 0750 | | | | | | | | | | | | | | | | | |
| | | 97WD | S5608 | OD: IT 0::: | |) | | | | | | RM KIT | . DO : = - | | 07EC | | | | | | | | | + | | | | | | | | |
| L FILTEF | | 02OF | ROF 413 | SPLIT SUC | | טע | | | | | | | M BOARD | | 04.531 | | | | | | | | | | | _ | | | | | | |
| L COOLI | | <u> </u> | 0.70.70.70.70.70 | SUCT MAN | | | 06SI | | | | | EL INDI | CATOR | | 01AN | Analog Horiz. | z. Hec. | | | | | | | | | | | | | | | |
| SCH LIN | | 2 1/8 | 2 5/8 DISCH HDR | LIQU MAN | INSUL | | | | | | RM BEI | | | | | | | | | | | | | | | | | | | | | |
| QUID LIN | | 2 1/8 | 3 1/8 LIQ HDR | | | | | | | | | RIENTAT | ION | | | VERT CKTS S | | | | | | | | | | _ | | | | | | |
| EAT REC | | | | | | | | | | CON | NTROLL | ER | | | NO | CPC EINST | TEIN | | | | | | | | | | | | | | | |
| R X OVEF | | | | | | | | | | PRC | GRAMI | MING | | | NO | No Program | nming | | | | | | | | | | | | | | | |
| R VOLT N | OD | | | | | | | | | COI | ND REL | AY BRD | | | NO | AT CONDEN | .NSER | REV | DA | ГЕ ВҮ | STAT | | DESCRIPTION | | | PRINT DAT | TE | 10/22/ | 2020 | Version: | 20 | 2002 V1 |
| PLIT CON | D | 55WN | 16D17B-SC | SUBCOOL | .ER | | | | | | | | | | | | | А | 8/14/2 | 2002 JRH | СС | | | | C | Changes per 8/8 e | email. | | | | | _ |
| MP META | | NO | | 2/3 TXV (Pa | | odel) | | | | PRF | -PURG | E VALVE | . | | | | | | _ | | | | | | | | | | | | | |
| AINT HEA | | NO | | 1/3 TXV (Pa | | | | | | | | SE VALV | | | | | | | | | | | | | | | | | | | | |
| | IL FLOATS | NO | | Solenoid # | | | | _ | | | | LOCATI | | | 3 (| On 3RD Comp | ıpressor | | | | | | | | | | | | | | | |
| | | | | Solenoid # | | | | _ | | | | | | | | | - | | | | | | | | | | | | | | | |
| IL PRESS | | I | İ | Joistiola # | _ \ | | | - | | | | | | | | 011 / 01 / 0 | ' | | | | + | | | | | | | | | | | |
| L PRESS | | NO | | Subcooler | FPR Valu | ve | | | | FII) | _ COMP | SEDVD | VV/(* 311 | - 1 | N∩ | o Oil / Ship Dry | 'ry L | | | | | | | | | | | | | | | |

| | | | | | | | | R | RACK E | D CONTINUE | D CUSTOM | IER | | н | IY-VEE | | | | | | | RACI | K D CONTINUED | C | OMPONENT MA | ANUFACTURER |
|--|-----------------|--------------------|--------------------|------|----------|-------|--------|-----|--------|-----------------|-------------|--------|-----|------------|---------|---------------|-------------------|----------|---------|-------------|-------------|-------------|------------------|-----------------|---------------|-----------------|
| | | STORE | : HY-VEE #2 | | | | | | | | CONTAC | Т | | | | | | STORE | E: HY | Y-VEE #2 | | | | | SOLENOID VLV: | SPORLAN |
| | | LOCATION | : LEE'S SUMMIT, MO | | | | | | | | SALESPE | ERSON | | FRE | ED COC | OK . | Lo | OCATION | N: LEI | EE'S SUMMIT | Γ, MO | | SPEC USED / DATE | 4/16/2002 | BALL VALVE: | MUELLER FP |
| | | QUOTE / JOB # | : 95954 | | | | | | | | ENGINEE | R | SH | IANNAH EIT | TER, P | P.E., LEED AP | QUOT | E / JOB# | #: 95 | 5954 | REMOTE (| CONDENSER | MECH NOTES PAGE | | CHECK VALVE: | MUELLER |
| G | RE | FRIGERATOR/UNIT CO | OOLER | DIS | REQ'D | | | | INPUTS | E | BRANCH KITS | | | ELE | CTRIC D | DEFROST | 120V ELEC | DEFROST | T/ FANS | IS EVAP | REFER: | | STORE DESIGN | | PAGE: | 1 OF |
| R SYS | | | | AIR | | EVP [| DEF D | _ | DI AI | | | INSTAL | .L | 208V | | (REMOTE) | FAN LT AS SUP 208 | | | | MODEL: | | AMBIENT TEMP: | 100 | DATE: | 8/6/2002 |
| P # | SIZE | MODEL | DESCRIPTION | ТМР | (MBH) | TMP T | TYPE T | ER | | VLV SL CS | LL SL LL | SBV | LBV | KIT KI | | | AMP AMP HTR AMP | | SI | SIZE EGVE | CNTRL: | | INSIDE TEMP/RH: | 75/55 | BY: | JRH |
| | | | | | (IVIDIT) | | | | | | | | | | | | | | | | FAN CNTR: | | ALTITUDE (FEET): | 0 | QUOTE: | 95954 |
| 15 | 40 | IDD5SU | DAIRY | 38 | 9.80 | 34 | | | | | | | | | | | | | | | THR (BTUH): | | COND. TEMP: | 115 | FILE: | |
| 16 | 28 | IDD5SU | DAIRY | 38 | | 34 | | | | | | | | | | | | | | | | | REFRIGERANT: | R404A | | PHYSICAL SPECS |
| | 20 | | DAIRY | 33 | | | | | | | | | | | | | | _ | | | HR (BTUH): | | | | | PHI SICAL SPECS |
| 17 | 8 | ID5NL | | | | 28 | | | | | | | | | | | | | | | TD (DEG): | | COMP TYPE: | Copeland Scroll | DIMEN: | |
| 18 | 8 | ID5NL | DAIRY | 33 | | 28 | | | | | | | | | | | | | | | WGT (LBS): | | COMP VOLT: | 208/3/60 | WEIGHT: | |
| 19 | 20 | IDD5SU | DAIRY | 38 | | 34 | | | | | | | | | | | | | | | CHG (LBS): | | CNTRL VOLT: | 120/1/60 | | EIVER SPECS |
| 20 | 8 | ID5NL | DAIRY | 33 | | 28 | | | | | | | | | | | | | | | FPI: | | COND VOLT: | 208/3/60 | DIMEN: | |
| 21 | 8 | ID5NL | DAIRY | 33 | 8.48 | 28 | | | | | | | | | | | | | | | DIM: | | 120 | 208 460 | CAP: | |
| 22 | 8 | ID5NL | DAIRY | 33 | 8.48 | 28 | | | | | | | | | | | | | | | FLA: | | MCA: | | OIL | COOLER |
| 23 | 48 | IDD5SU | DAIRY | 38 | 11.76 | 34 | | | | | | | | | | | | | | | FANS: | | MOPD: | | MODEL: | |
| 24 | 8 | ID5NL | DAIRY | 33 | | 28 | | | | | | | | | | | | | | | DAMPERS: | | FLA: | | CNTRL: | |
| 25 | 8 | ID5NL | DAIRY | 33 | | 28 | | | | | | | | | | | | | | | FIN COAT: | | CONTACTOR | SQUARE D | DIMEN: | |
| 26 | 0 | ID5NL | DAIRY | 33 | | 28 | | | | | | | | | | | | | | | LEGS: | | BREAKER | SQUARE D | WEIGHT: | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 44 | IDD5SU | DAIRY | 38 | 10.78 | 34 | | | | | | | | | | | | | | | NOTES: | | NEMA / DP | NEMA | RLA: | |
| | | | | | | | | | | | | | | | | | | | | | SUCTION | | | | | |
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| | LOOP 15 | | | | 111.94 | 28 | | | | | | | | | | | | | | | ECON | SC CAP: | | | | |
| | | | | | | | | | | | | | | | | | | | | | ECON POW | /ER FAC: | | | | |
| | | | | | | | | | | | | | | | | | | | | | ECON | POWER: | | | | |
| | | | | | | | | | | | | | | | | | | | | | INVERT | | | | | |
| | | | | | | | | | | | | | | | | | | | | | DEM COOL | | 99FZ | | | |
| | | | | | | | | | | | | | | | | | | | | | SUCTION I | | 0012 | | | |
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| | | | | | | | | | 1 | | | | | | | | RACK MODEL: | | 0200SE | | | MODEL: | | | | |
| UNIT | ACCESS. | KIT | VENDOR/MODEL | UNIT | ACCESS. | | | KIT | Γ VI | 'ENDOR/MODEL UN | IIT ACCESS. | | | KIT | VEND | OOR/MODEL | SYSTEM (MBH) | REG | Q AV | VAL % | FILTE | R CORE: | | | | |
| R (If Applie | ed) | | | | | | | | | | | | | | | | | | | | DISCHAR | GE SIZE: | | | | |
| REGULA | TOR | | | | | | | | | | | | | | | | | | | | CHECK | VALVES: | | | | |
| ANKCASE | | | | | | | | | | | | | | | | | | | | | | RE SIZE: | | | | |
| CTION FIL | | | | | | | | | | | | | | | | | | | | | | FACTOR: | | | | |
| CK UNIT | | | | | | | _ | | | | | | | | | | | _ | + | | | REAKER: | | | | |
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| | 00 | | | | | | | | | | | | | | | | | | | | 08.111/2 | RLA: | | | | |
| CEIVER | | | | | | | | | | | | | | | | | | | | | CRANKCA | | | | | |
| CEIVER A | | | | | | | | | | | | | | | | | | | | | | CSR: | | | | |
| RATION IS | SOL | | | | | | | | | | | | | | | | NOTES: | | | | HEAD | FAN KIT: | | | | |
| Γ MOD | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESERVO | OIR | | | | · | | T | | | | | | | | - | | | | | | | | | | | |
| IP LOOSE | OIL | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEPARA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILTER | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COOLING | - | | | | | | | | | | | | | | | | - | | | | | | | | | |
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| | SI/E | | | | | | | | | | | | | | | | | | | | | | | | | |
| UID LINE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QUID LINE : AT RECLA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QUID LINE S AT RECLA X OVER | IM | | | | | | | | | | | | | | | | | | | | | | | | | - |
| SCH LINE S QUID LINE S AT RECLA X OVER R VOLT MO | IM | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| QUID LINE : EAT RECLA X OVER | JIM D | | | | | | | | | | | | | | | | | | | | | | | | | |
| QUID LINE: AT RECLA X OVER VOLT MO LIT COND | IM D | | | | | | | | | | | | | | | | | | | | | | | | | |
| UID LINE: AT RECLA X OVER VOLT MO LIT COND MP METAL | D CAPS | | | | | | | | | | | | | | | | | | | | | | | | | |
| UID LINE S AT RECLA X OVER VOLT MO IT COND IP METAL (NT HEADS | D CAPS | | | | | | | | | | | | | | | | | | | | | | | | | |
| JID LINE: AT RECLA AT OVER AT COND AT METAL ANT HEADS ALIZE OIL | D CAPS S FLOATS | | | | | | | | | | | | | | | | | | | | | | | | | |
| JID LINE: T RECLA OVER OLT MO IT COND P METAL OTHER | CAPS S FLOATS | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL SHEET NOTES

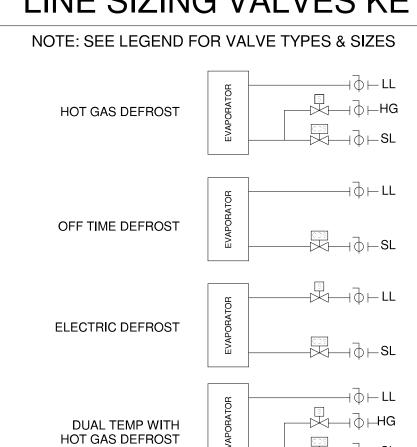
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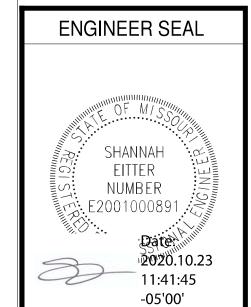
 IT IS THE RESPONSIBILITY OF THE CUSTOMER OR THEIR ARCHITECT TO VERIFY THE ACCURACY OF ALL DIMENSIONS COMPONENTS AND LINE SIZING WITH THE CONTRACTOR AT THE JOB SITE TO INSURE THAT ALL INSTALLATIONS CONFORM TO PROJECT SPECS AND APPLICABLE CODES.

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 FACTORY INSTALLED STUBS MAY DIFFER IN SIZE TO THOSE SHOWN ON SCHEMATICS. CONNECTIONS TO BE DETERMINED BY INSTALLER.

LINE SIZING VALVES KEY





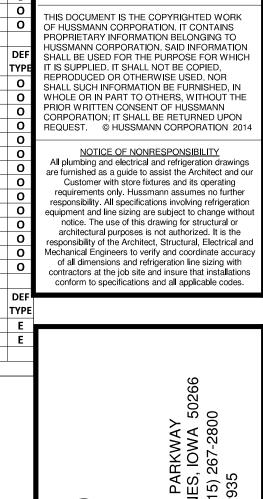
REVISION

1 2020 PRODUCE CASE REMODEL

08/28/20

1. ALL ISOLATION & CONTROL VALVES ARE SUPPLIED BY HUSSMANN & FIELD INSTALLED UNLESS OTHERWISE NOTED. 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.

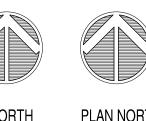
| SET | POINT | STANDA | ARDS US | ED BY | THE CONTROLS DE | PARTM | ENT | | |
|-----------------------|--------|----------------|--------------|-------------|-----------------------|--------|----------------|--------------|---------|
| LOW TEMP | SET PT | # DEF 24HRS | DUR (MIN) | DEF TYPE | MED TEMP | SET PT | # DEF 24HRS | DUR (MIN) | D TY |
| RACK | | | | | KITCHEN CLR | 34 | 4 | 60 | (|
| KITCHEN FRZR | -5 | 3 | 18 | KG | DAIRY CLR | 36 | 2 | 60 | (|
| MAIN W/I FRZR | -10 | 2 | 20 | KG | CHINESE CLR | 36 | 3 | 45 | (|
| CHINESE FRZR | -5 | 2 | 45 | E | BAKERY CLR | 36 | 2 | 60 | |
| BAKERY FRZR | -5 | 6 | 18 | KG | SEAFOOD CLR | 36 | 1 | 30 | |
| PROTOCOL | | | | | PROD CLR | 36 | 2 | 60 | |
| KITCHEN FRZR | -5 | 2 | 45 | Е | PROD PREP | 55 | 2 | 90 | |
| MAIN W/I FRZR | -10 | 2 | 45 | Е | MEAT CLR | 50 | 3 | 45 | |
| CHINESE FRZR | -5 | 4 | 45 | Е | MEAT PREP | 55 | 1 | 150 | (|
| BAKERY FRZR | -5 | 6 | 45 | Е | FLORAL CLR | 34 | 3 | 40 | (|
| | | | | | SALAD BAR | 36 | 1 | 30 | |
| | | | | | BEER CLR | 36 | 2 | 60 | 1 |
| W/I = WALK-IN | | | | | DELI CLR | 34 | 2 | 60 | (|
| , | | | | | | | | | |
| LT CASES | SET PT | # DEF 24HRS | DUR (MIN) | DEF TYPE | MT CASES | SET PT | # DEF 24HRS | DUR (MIN) | D T\ |
| DSFM | 31 | 3 | 46 | 0 | C2X-EP, LEP, XLEP | 31 | 2 | 30 | (|
| ESGMS, ESGSS | 27 | 1 | 90 | 0 | C5X-EP, LEP | 31 | 2 | 30 | - |
| SMG, SMGV | 24 | 1 | 70 | 0 | C6X-EP, LEP | 31 | 2 | 30 | |
| SSGVE | 24 | 1 | 70 | 0 | D5X, D5NX-LEP | 30 | 3 | 30 | (|
| RACK | | | | | D5X-ULEP | 30 | 4 | 20 | (|
| RL SERIES - FF | -5 | 1 | 20 | KG | D6X-ULEP | 30 | 4 | 25 | |
| RL SERIES - IC | -12 | 1 | 20 | KG | DD5X-ULEP | 33 | 1 | 60 | |
| PROTOCOL | | | | | DD6X-ULEP | 37 | 1 | 50 | (|
| RL SERIES - FF | -5 | 1 | 45 | E | IM-R | 32 | 6 | 20 | - |
| RL SERIES - IC | -12 | 1 | 45 | E | M4X-EP | 29 | 4 | 30 | - |
| | | | | | M5X-EP | 30 | 4 | 30 | - |
| | | | | | PWWE | 34 | 4 | 45 | (|
| IC = ICE CREAM | | | | | Q1-SS | 26 | 4 | 30 | - |
| FF = FROZEN FOOD | | | | | R3HV-MF | 24 | 4 | 40 | |
| DUAL TEMP CASES LT | SET PT | # DEF 24HRS | DUR (MIN) | DEF TYPE | DUAL TEMP CASES MT | SET PT | # DEF 24HRS | DUR (MIN) | T.V |
| FW, FWE | -12 | 1 | 60 | Е | FW, FWE | 24 | 1 | 60 | |
| FWG, FWEG | -12 | 1 | 60 | Е | FWG, FWEG | 24 | 1 | 60 | |



SUMMIT

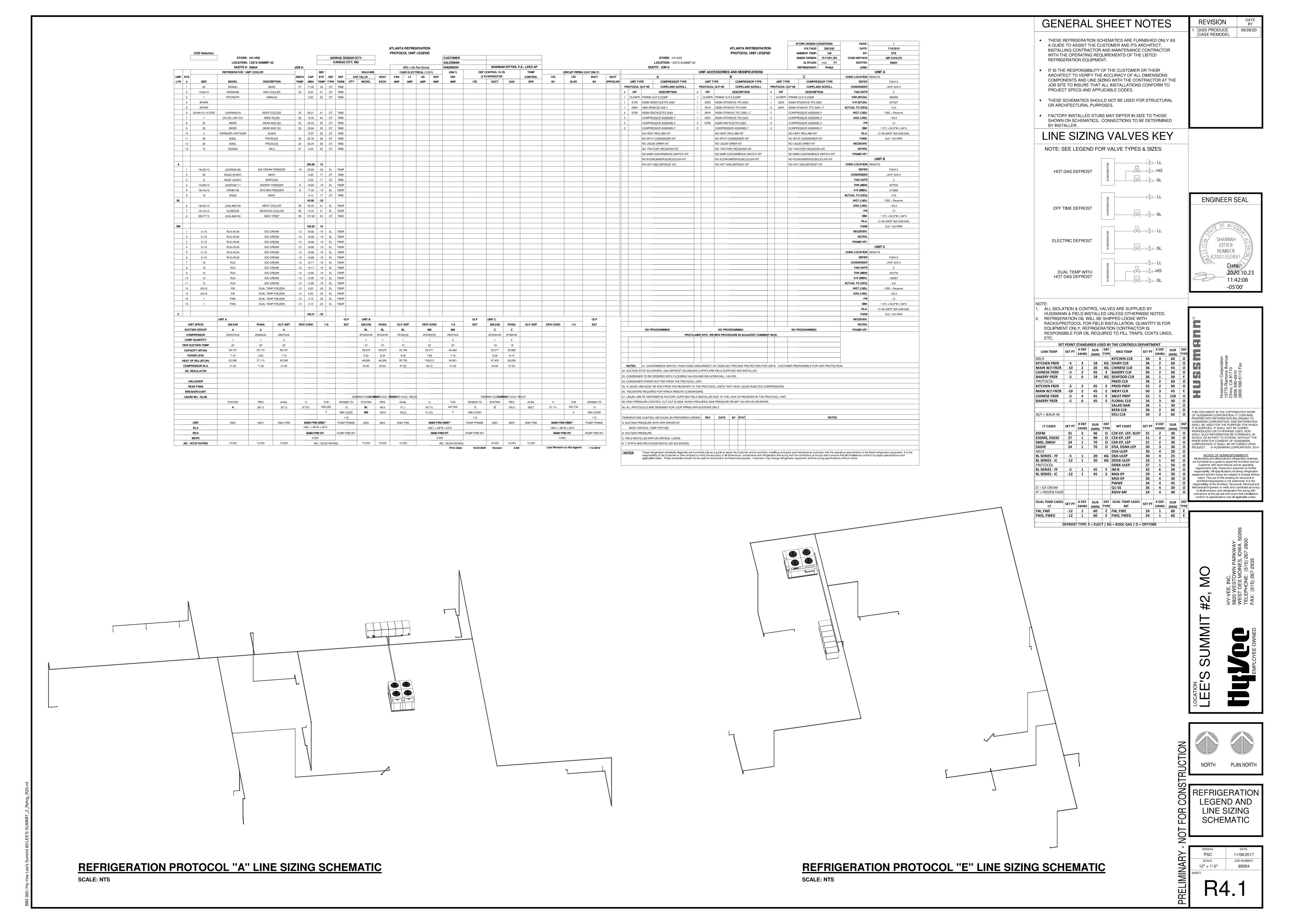


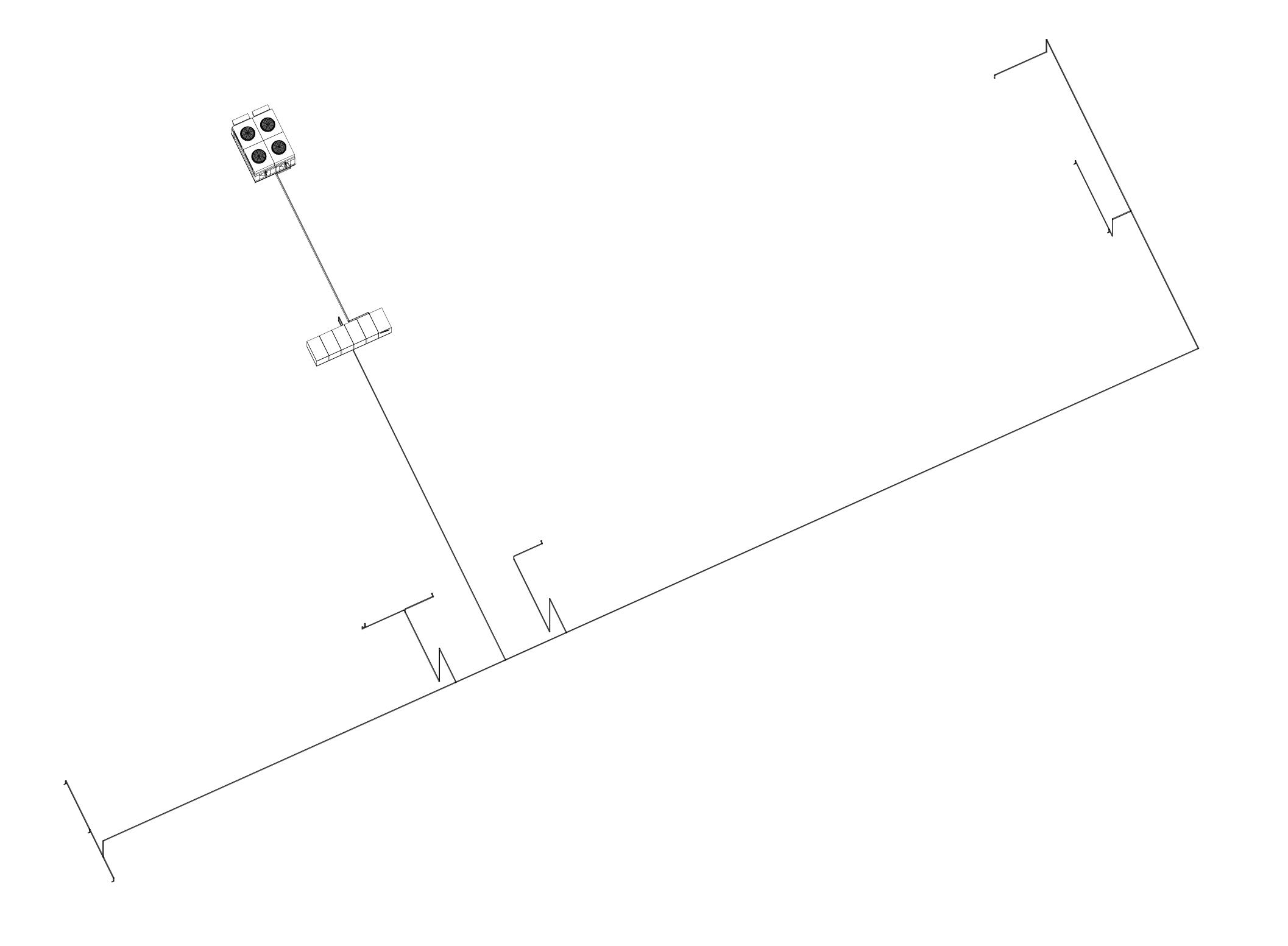




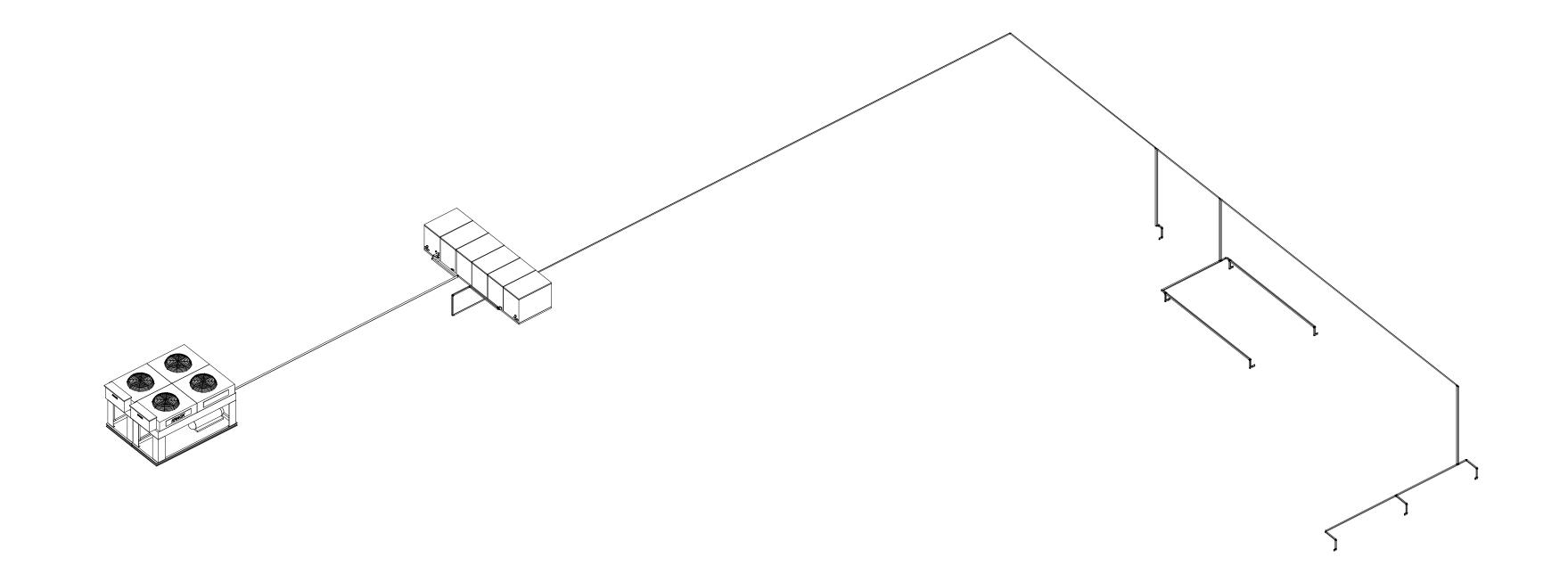
LEGEND AND LINE SIZING SCHEMATIC

Last Update of This Legend: 7/25/2002





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



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

GENERAL SHEET NOTES

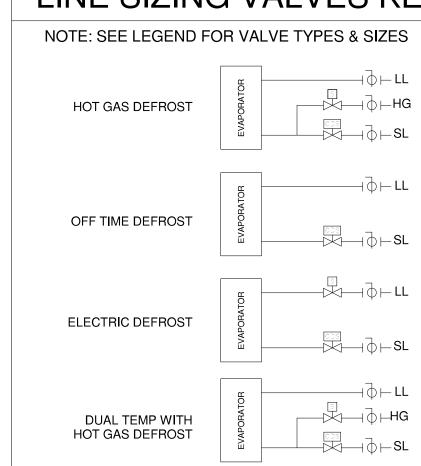
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JOB SITE TO INSURE THAT ALL INSTALLATIONS CONFORM TO

FACTORY INSTALLED STUBS MAY DIFFER IN SIZE TO THOSE SHOWN ON SCHEMATICS. CONNECTIONS TO BE DETERMINED BY INSTALLER.

OR ARCHITECTURAL PURPOSES.

LINE SIZING VALVES KEY



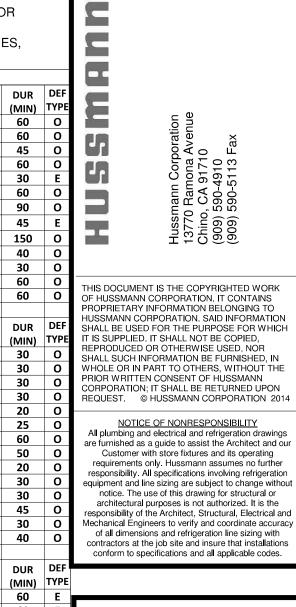
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REVISION

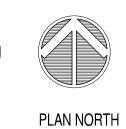
1 2020 PRODUCE CASE REMODEL



HY-VEE, INC.
5820 WEST DES MOINES, IOWA 50266





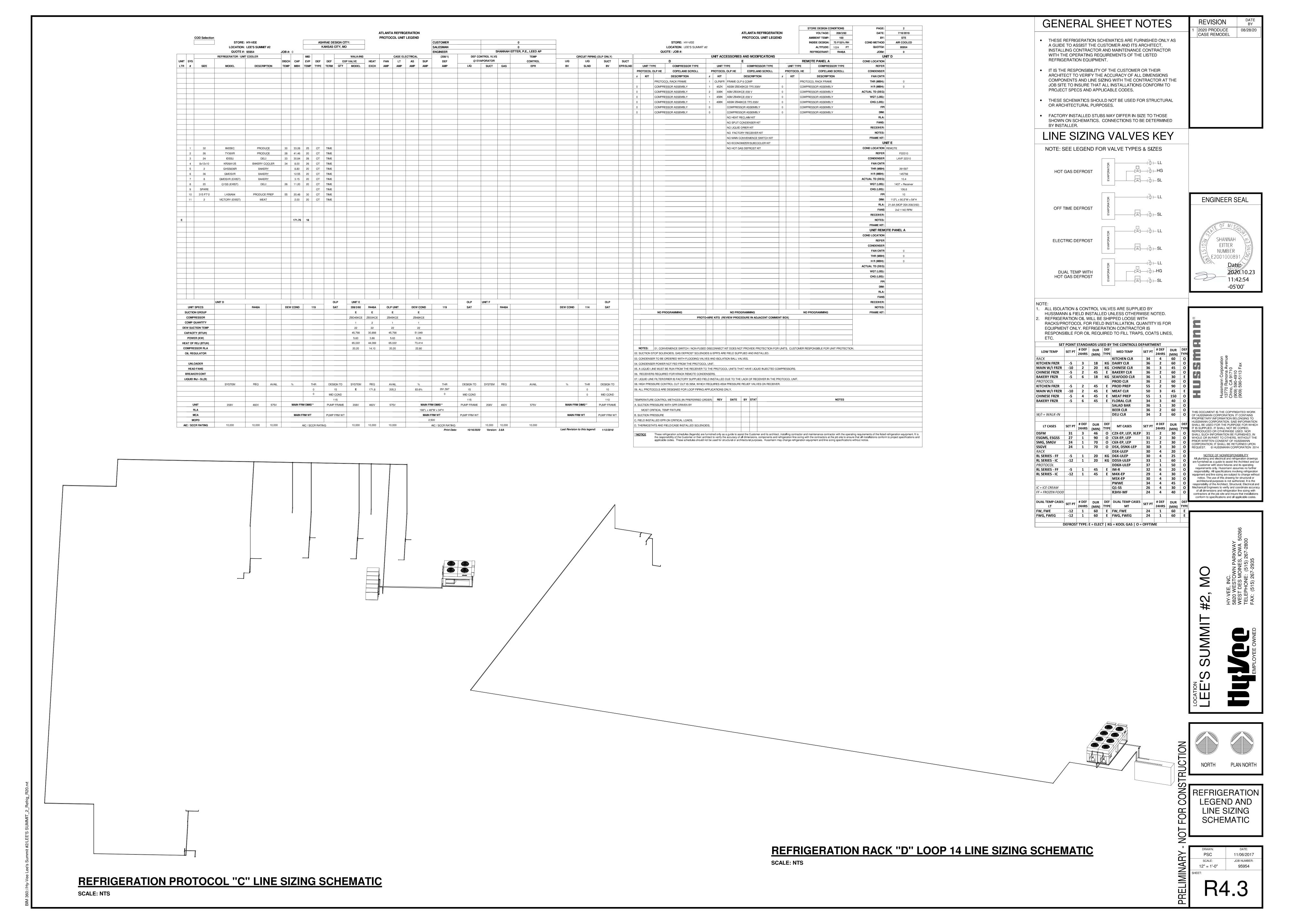


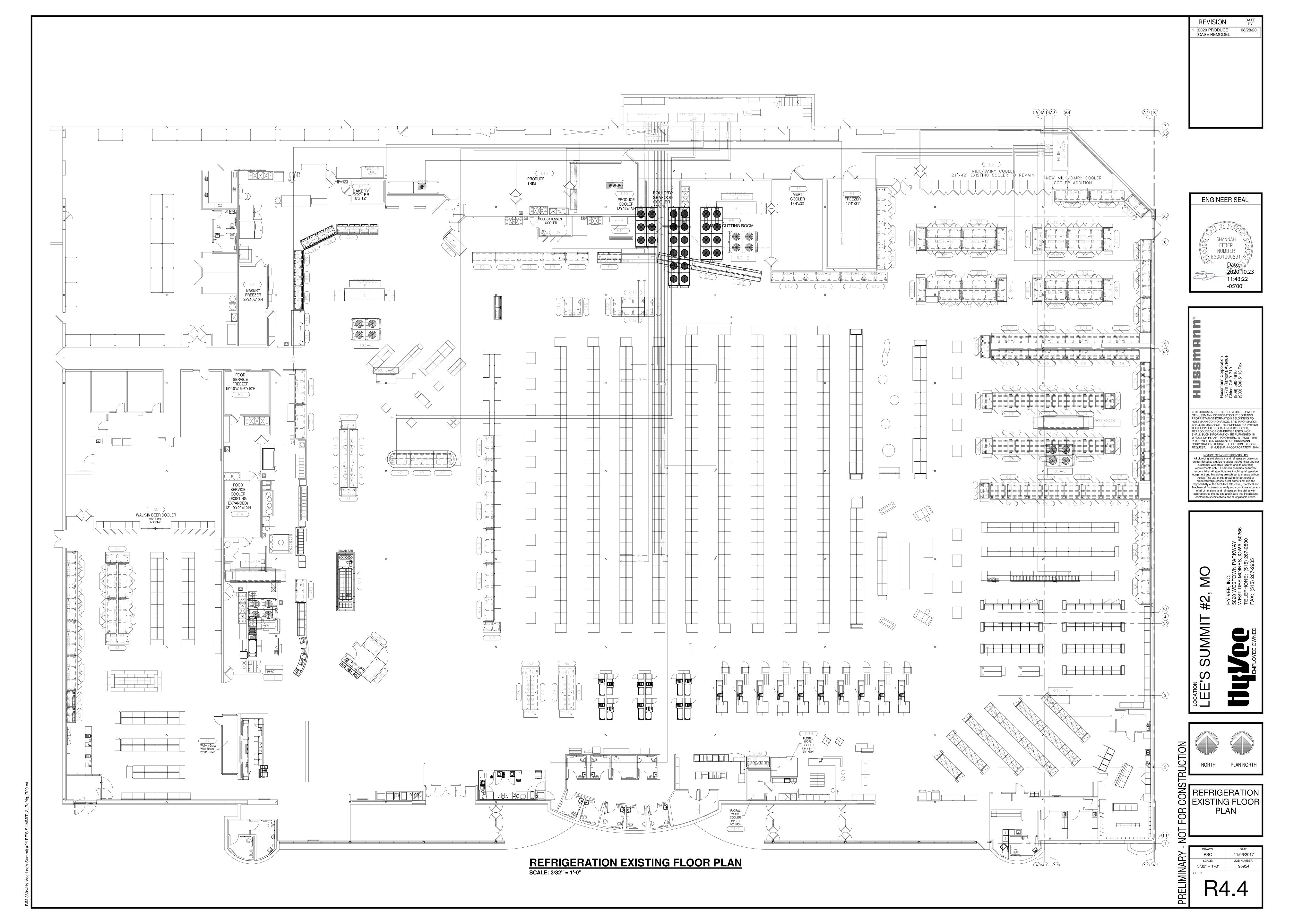
REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

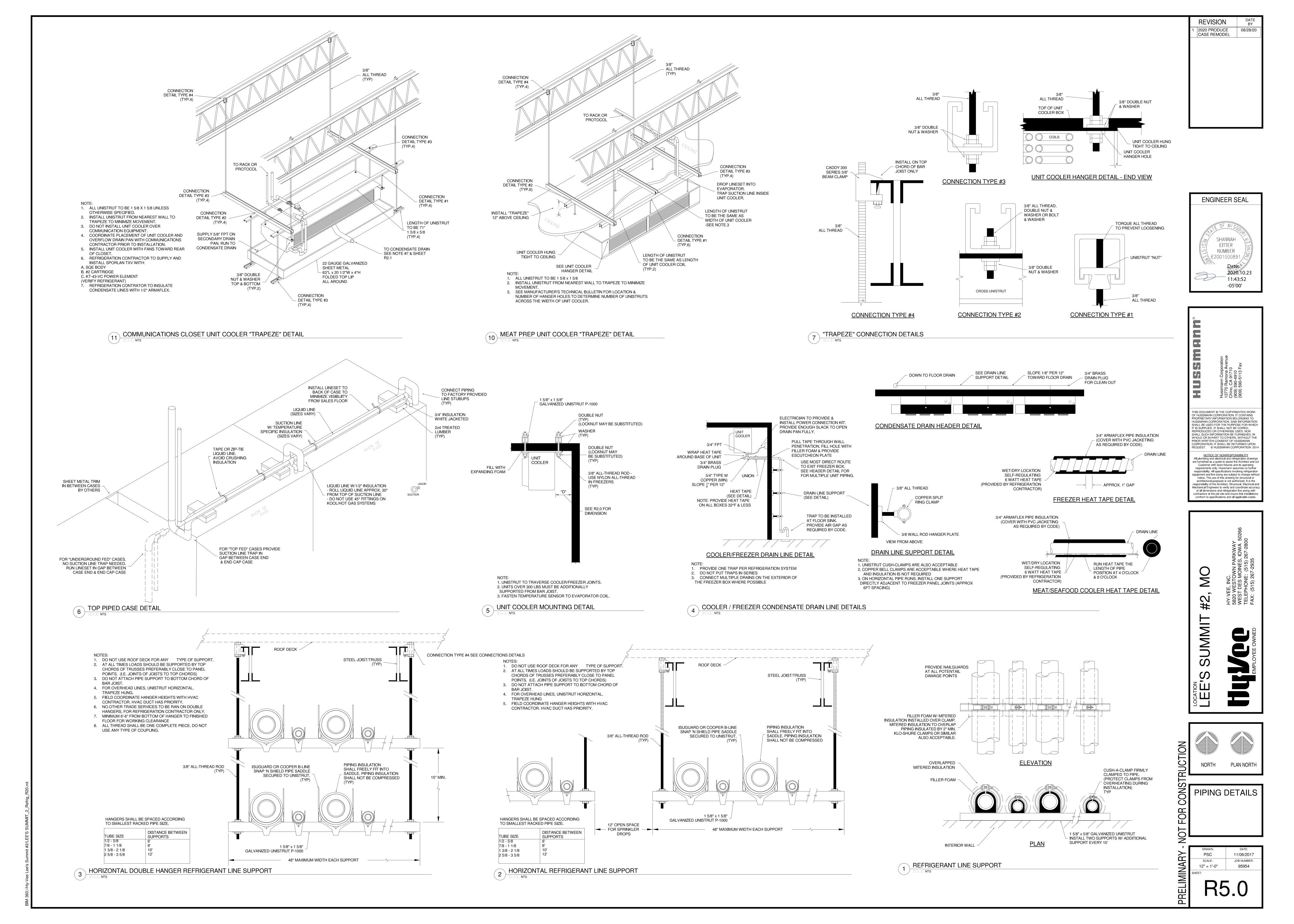
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PSC 11/06/2017

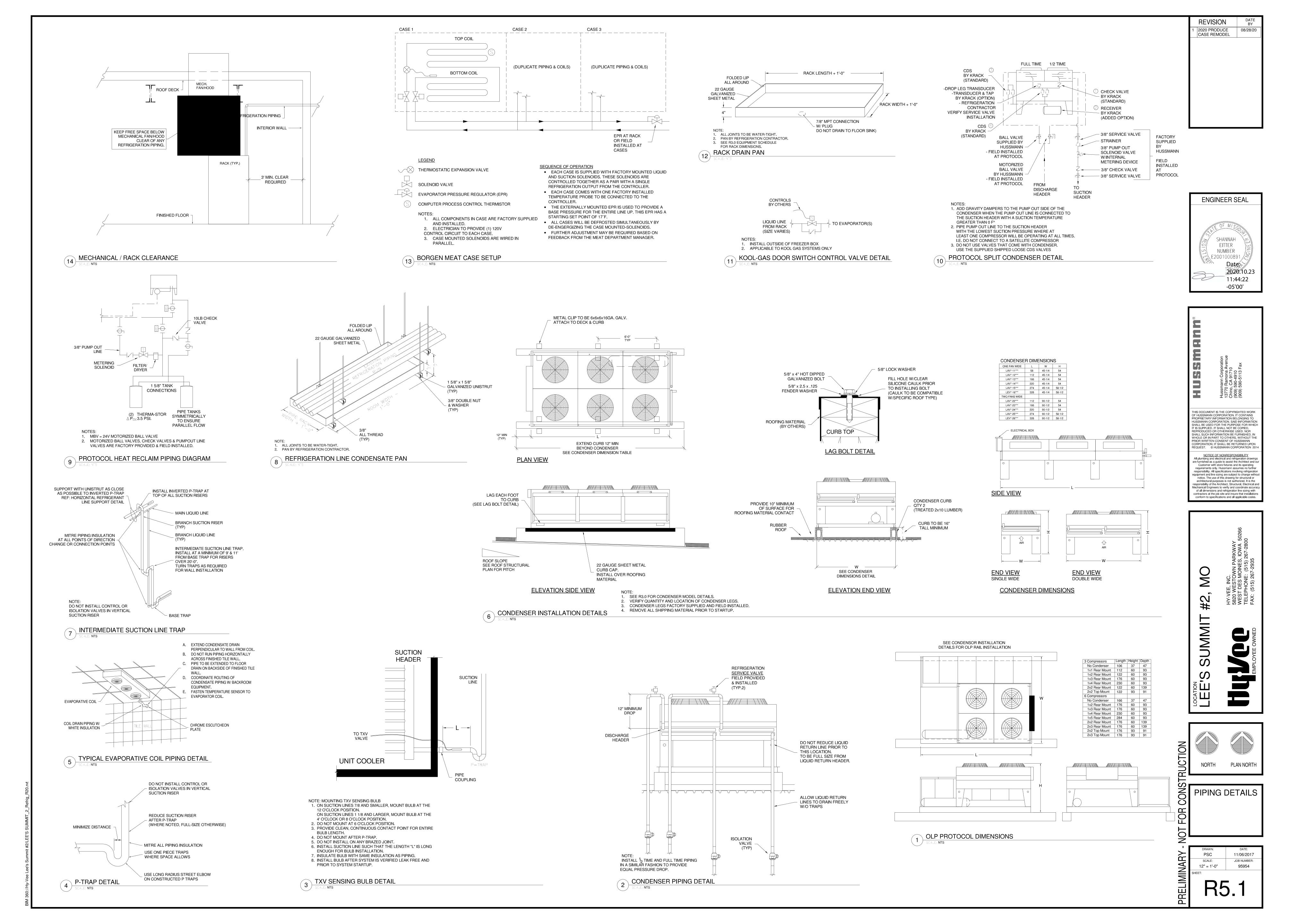
SCALE: JOB NUMBER:
95954

ET:









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-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 bridle rings, j-hooks, or cable tray.

Controls Contractor to supply and mount HVAC panel, I/O panels, and generator override panel.

| | | HVAC Low Voltage | <u>Cable Schedule</u> | | |
|------------|-------|----------------------------|-------------------------------|----------------------------|-------|
| 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 | |
| ЗТ | 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 | |
| | | <u>UH-1 &2</u> | | | |
| 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 | Table O | 1 . | |
| 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 | | | |



Bacnet/485 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

Bacnet Trunk 1

Hood 4 Control Panel VAV-10-5 VAV-10-4 VAV-10-3 VAV-10-2 VAV-10-1 RTU-10 UH-1E T-Stat UH-3E T-Stat Hood 5 Control Panel RTU-1

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 bridle rings, j-hooks, or cable tray.

RISER DIAGRAM

UH-2E T-Stat Remote Panel 1 RTU-2 Remote Panel 2 RTU-7E T-Stat RTU-8E T-Stat RTU-6 VAV-6-5 VAV-6-4 VAV-6-2 VAV-6-1 VAV-6-3 RTU-4E T-Stat RTU-11 RTU-5E T-Stat RTU-3E T-Stat Hood PTAUB 1Control Panel RTU-9 Hood 2 Control Panel

HVAC Pnl JACE

Bacnet Trunk 2

ENGINEER SEAL

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SUMMIT



