HY-VEE INC.

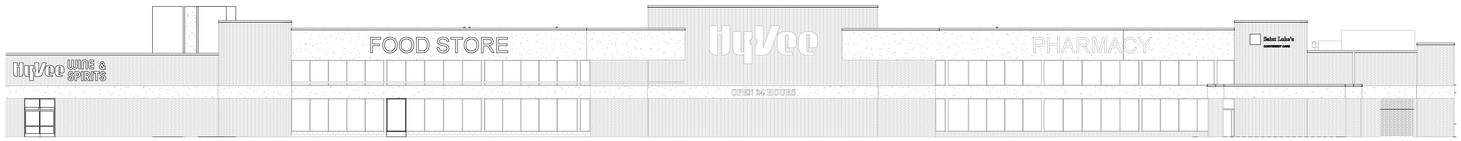
5820 Westown Parkway West Des Moines, Iowa 50266

Hy-Vee® EMPLOYEE OWNED

PROJECT LOCATION:

LEE'S SUMMIT, MO #2

310 SW WARD RD, LEE'S SUMMIT, MO 64081



DRAWING SCHEDULE

GENERAL
- G0.0 CODE ANALYSIS PLAN

STRUCTURAL
- S0.1 STRUCTURAL NOTES
- S1.0 FOUNDATION PLAN
- S2.0 ROOF FRAMING PLAN
- S5.0 STRUCTURAL SECTIONS & DETAILS
- S5.1 STRUCTURAL SECTIONS & DETAILS
- 6 S5.2 STRUCTURAL SECTIONS & DETAILS
- S5.3 STRUCTURAL SECTIONS & DETAILS

ARCHITECTURE
- A0.0 FIXTURE & EQUIPMENT PLAN
- A0.2 EXISTING FIXTURE & EQUIPMENT PLAN
- A0.3 OVERLAY PLAN
- 1 A0.4 PHASING PLAN
- A0.4A PHASED EXITING PLAN
- AD1.0 ARCHITECTURAL DEMOLITION PLAN
- AD2.0 DEMOLITION SLAB AND FLOOR FINISH PLAN
- AD5.1 DEMOLITION REFLECTED CEILING PLAN
- AD8.0 DEMOLITION ROOF PLAN
- A1.0 FLOOR PLAN
- A2.0 FLOOR FINISH & JOINT PLAN
- 5 A2.0A FLOOR FINISH & JOINT PLAN
- A2.2 FINISH SCHEDULE
- 1 A2.3 DOOR SCHEDULE & DETAILS
- A2.3A DOOR DETAILS
- A2.4 INTERIOR DECOR PLAN
- A2.4A MISC DECOR AND ASSET PROTECTION PLAN
- A2.5 INTERIOR WALL DETAILS
- A3.0 FRONT ENTRANCE PLANS & DETAILS
- A3.0A FRONT ENTRANCE ELEVATIONS
- A3.1 ENLARGED PLAN & ELEVATIONS - FOOD SERVICE
- A3.1A ENLARGED PLAN & ELEVATIONS - FOOD SERVICE
- 5 A3.2 ENLARGED PLAN & ELEV - HICKORY HOUSE, ASIAN, HIBACHI, ITALIAN
- A3.3 ENLARGED PLAN & ELEVATIONS - BAKERY
- A3.3A ENLARGED PLAN & ELEVATIONS - CAKE DECORATING
- A3.4 ENLARGED PLAN & ELEVATIONS - DELICATESSAN
- A3.5 ENLARGED PLAN & ELEVATIONS - MEAT/SEAFOOD
- A3.6 ENLARGED PLAN & ELEVATIONS - CUSTOMER & MONEY SERVICE
- A3.7 ENLARGED PLAN & ELEVATIONS - PHARMACY
- A3.7A ENLARGED PLAN & ELEVATIONS - CLINIC
- A3.8 ENLARGED PLAN & ELEVATIONS - RESTROOM
- A3.8A ENLARGED PLAN & ELEVATIONS - MISC. OFFICES
- A3.8B ENLARGED PLAN & ELEVATIONS - MISC. OFFICES
- A3.9 ENLARGED PLAN & ELEVATIONS - CASUAL DINING
- 2 A3.10 ENLARGED PLAN & ELEVATIONS - FLORAL
- A3.12 ENLARGED PLAN & ELEVATIONS - WINE & SPIRITS
- 5 A3.13 ENLARGED PLAN & ELEVATIONS - PRODUCE PREP
- A3.15 ENLARGED PLAN & ELEVATIONS - JOE FRESH & DSW
- A3.16 ENLARGED PLAN & ELEVATIONS - AOL
- A5.0 DIMENSIONED BULKHEAD PLAN
- A5.1 REFLECTED CEILING PLAN
- A5.2 ENLARGED PARTIAL RCP PLANS & CEILING DETAILS
- A6.0 EXTERIOR ELEVATIONS
- A8.0 ROOF PLAN

EQUIPMENT
- EQ1.0 EQUIPMENT PLAN
- EQ1.1 ENLARGED EQUIPMENT PLAN
- EQ1.2 ENLARGED EQUIPMENT PLAN

MECHANICAL
- H0.0 HVAC NOTES AND SYMBOLS
- H1.0A HVAC FLOOR PLAN - PART A
- H1.0B HVAC FLOOR PLAN - PART B
- H1.1 HVAC ENLARGED PLANS
- H1.2 HVAC ENLARGED PLANS
- H3.0A HVAC ROOF PLAN - PART A
- H3.0B HVAC ROOF PLAN - PART B
- H4.0 HVAC DETAILS
- H4.1 HVAC SCHEDULES
- H5.1 HVAC CONTROL DIAGRAMS
- H5.2 HVAC CONTROL DIAGRAMS
- HD1.0A HVAC DEMOLITION FLOOR PLAN - PART A
- HD1.0B HVAC DEMOLITION FLOOR PLAN - PART B
- HD3.0A HVAC DEMOLITION ROOF PLAN - PART A
- HD3.0B HVAC DEMOLITION ROOF PLAN - PART B

PLUMBING
- P0.0 PLUMBING NOTES & SCHEDULES
- P0.1 PLUMBING SCHEDULES
- P1.0A UNDERFLOOR PLUMBING PLAN - A
- P1.0B UNDERFLOOR PLUMBING PLAN - B
- P2.0A PLUMBING FLOOR PLAN - A
- P2.0B PLUMBING FLOOR PLAN - B
- P2.5 PLUMBING ENLARGED PLANS
- P2.6 PLUMBING ENLARGED PLANS
- P3.0A PLUMBING ROOF PLAN - A
- P3.0B PLUMBING ROOF PLAN - B
- P4.0 SINK DETAILS
- P4.1 PLUMBING DETAILS
- P5.0 WASTE & VENT RISER DIAGRAM - A
- P5.1 WASTE & VENT RISER DIAGRAM - B
- PD1.0A UNDERFLOOR DEMOLITION PLUMBING PLAN - A
- PD1.0B UNDERFLOOR DEMOLITION PLUMBING PLAN - B
- PD2.0A DEMOLITION PLUMBING PLAN - A
- PD2.0B DEMOLITION PLUMBING PLAN - B
- PE1.0A PLUMBING STUB-UP PLAN - A
- PE1.0B PLUMBING STUB-UP PLAN - B

FIRE PROTECTION
- FP0.0 FIRE PROTECTION NOTES AND SYMBOLS
- FP1.0 FIRE PROTECTION FLOOR PLAN - PART A
- FP1.1 FIRE PROTECTION FLOOR PLAN - PART B

ELECTRICAL
- E0.0 ELECTRICAL NOTES & SYMBOLS
- E0.0A ELECTRICAL DETAILS
- E0.1 ELECTRICAL EQUIPMENT LISTING
- E1.0 FEEDER RISER DIAGRAM
- E1.1 ELECTRICAL PANEL SCHEDULES
- E1.2 ELECTRICAL PANEL SCHEDULES
- E2.0A ELECTRICAL PLAN - PART A
- E2.0B ELECTRICAL PLAN - PART B
- E2.1 ELECTRICAL PART PLANS
- E2.2 ELECTRICAL PART PLANS
- E2.9A ROOF ELECTRICAL PLAN - PART A
- E2.9B ROOF ELECTRICAL PLAN - PART B
- E3.0A LIGHTING FLOOR PLAN - PART A
- E3.0B LIGHTING FLOOR PLAN - PART B
- E3.1 LIGHTING SCHEDULES AND DETAILS
- 1 E4.4 REGISTER SYSTEMS PLAN
- E5.0B REFRIGERATION ELECTRICAL POWER PLAN - PART B
- ED1.0A ELECTRICAL DEMOLITION PLAN - PART A
- ED1.0B ELECTRICAL DEMOLITION PLAN - PART B
- ED2.0 ELECTRICAL DEMOLITION ROOF PLAN
- E6.1 CONTROL WIRE PULLS
- E7.1 CONTROL WIRE PULLS
- E7.2 CONTROL WIRE PULLS
- E7.3 REFRIGERATION CONTROL DETAILS AND BUSBAR LAYOUT

REFRIGERATION
- R0 REFRIGERATION CASE LOCATION PLAN
- R1.0 REFRIGERATION UNDER FLOOR PLAN
- R2.0 REFRIGERATION PIPING FLOOR PLAN
- R2.1 REFRIGERATION CONDENSATE PIPING FLOOR PLAN
- R3.0 REFRIGERATION SCHEDULES AND MACHINE ROOM LAYOUT
- R3.1 REFRIGERATION STRUCTURAL COORDINATION
- R4.0 REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC
- R4.1 REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC
- R4.2 REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC
- R4.3 REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

1 REMOVE SHEETS XE4.0 AND XE4.0A FROM THE DRAWING SCHEDULE IN THEIR ENTIRETY.
- R4.4 REFRIGERATION EXISTING FLOOR PLAN
- R5.0 PIPING DETAILS
- R5.1 PIPING DETAILS

1 ASI #1 - 11/12/20
2 ASI #2 - 01/08/21
5 ASI #5 - 03/19/21
6 ASI #7 - 04/16/21



SCOPE OF WORK

- NEW WINE AND SPIRITS DEPARTMENT IN ADJACENT STORAGE SPACE
- NEW OFFICES AND EMPLOYEE LOUNGE IN ADJACENT STORAGE SPACE
- REMOVE MARKET GRILLE RESTAURANT AND ADD CASUAL SEATING AREA
- ADD STARBUCKS KIOSK
- ADD SUSHI ISLAND
- REMODEL AT KITCHEN AND PREP AREAS
- ADD DELICATESSEN DEPARTMENT
- NEW PRODUCE PREP AND PRODUCE COOLER
- ADD CUSTOMER REACH IN DOORS TO DAIRY COOLER
- RESET CENTER STORE FIXTURES
- NEW PHARMACY AND CLINIC
- NEW FLORAL DEPARTMENT
- NEW CUSTOMER SERVICE & AISLES ONLINE GROCERY PICK UP AREA AT FRONT OF STORE

SITE VERIFICATION NOTES

1. THE ARCHITECT HAS MADE A SCOPE VISIT WITH MEASUREMENTS AND PHOTOGRAPHS OF EXISTING CONDITIONS AND THE ARCHITECTURAL DRAWINGS INDICATE EXISTING CONDITIONS VERIFIED IN THE FIELD. IT, HOWEVER, REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE SUBMISSION OF THEIR BID AND TO THE COMMENCEMENT OF ANY WORK. NO ADDITIONAL COMPENSATION WILL BE PAID DUE TO THE CONTRACTOR'S FAILURE TO ACQUAINT THEMSELVES WITH EXISTING SITE CONDITIONS WHICH INCLUDE, BUT ARE NOT LIMITED TO, GRADES, EXTENT OF PAVING, OR UTILITIES.
2. THE CONTRACTOR SHALL FIELD LOCATE AND VERIFY ALL PROPERTY LINES, EASEMENTS, SETBACKS AND RESTRICTIONS. A REGISTERED SURVEYOR SHALL ESTABLISH ALL PROPERTY LINES AND SETBACKS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CLEARLY FLAG PROPERTY LINES AND SETBACKS. IT REMAINS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE EXACT LOCATION OF ALL SAID BOUNDARIES.
3. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF THEIR BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS.
4. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITY SERVICES PRIOR TO ANY EXCAVATION.
5. THE CONTRACTOR SHALL VERIFY ALL GRADES AND PROPOSED FINAL GRADES. IF RAMPS, STOOPS, STAIRS, SIDEWALKS, FLATWORK OR PAVING ARE INSTALLED, VERIFY FINAL GRADES SURROUNDING THE NEW CONSTRUCTION AND ADJUST STAIR RISERS, RAMP LENGTHS, LIMITS OF PAVING, ETC., TO ACCOMMODATE THE REQUIRED RAMP SLOPE, RISER HEIGHTS OR PAVING AREAS. ALL RAMPS AND STAIRS SHALL MEET ADA-ADAAGS (OR ADOPTED HANDICAP ACCESSIBILITY REQUIREMENTS). IF THERE IS CONFLICT IN FIELD CONDITIONS, NOTIFY THE CONSTRUCTION MANAGER AND THE ARCHITECT PRIOR TO THE CONSTRUCTION OR ORDERING OF MATERIALS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTING FINISH FLOOR ELEVATION AT ALL INTERIOR WALLS OF THE EXISTING BUILDING PRIOR TO ESTABLISHING THE FINISH FLOOR ELEVATION. TO VERIFY FLOOR ELEVATION, THE CONTRACTOR SHALL REMOVE A SMALL PORTION OF THE WALL AT THE PROPOSED OPENING BETWEEN THE INTERIOR WALLS.
7. THE CONTRACTOR SHALL VERIFY EXISTING FOOTING DEPTHS AND MATCH IT NEW ADDITION TO INSURE PROPER BLOCK COURSING. ANY DISCREPANCY SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
8. FOR ANY ROOF WORK REQUIRED AS PART OF THESE DOCUMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MATCH EXISTING ROOF INSULATION THICKNESS UNLESS DIRECTED OTHERWISE. REFER TO THE ROOFING SPECIFICATIONS SECTION.
9. REPORT ANY DISCREPANCIES FOUND IN THE FIELD IMMEDIATELY TO THE CONSTRUCTION MANAGER AND THE ARCHITECT PRIOR TO MAKING ANY STRUCTURAL MODIFICATIONS OR ORDERING OF ANY MATERIALS.
10. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION. THESE CONSTRUCTION DOCUMENTS HAVE BEEN DESIGNED AND DRAWN ASSUMING EXISTING BUILDING CONDITIONS MATCH THE ORIGINAL DRAWINGS. THE CONTRACTOR, IMMEDIATELY UPON ARRIVAL AT THE SITE, SHALL VERIFY ALL EXISTING STRUCTURAL COLUMN DIMENSIONS, STRUCTURAL BEARING HEIGHTS AND EXISTING DIMENSIONS. IF DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND EXISTING FIELD CONDITIONS, CONTACT THE CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY TO DETERMINE WHAT ACTION SHOULD BE TAKEN TO MATCH EXISTING CONDITIONS. THE BEGINNING OF CONSTRUCTION BY THE GENERAL CONTRACTOR MEANS ACCEPTANCE OF THE EXISTING CONDITIONS.

DEMOLITION REQUIREMENTS

1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMAN-LIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE BUILDING CODES, NATIONAL ELECTRIC CODE (NEC), OSHA, AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND AUTHORITIES HAVING JURISDICTION.
2. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THEM OF ANY RESPONSIBILITY FOR PERFORMING WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
3. THE EXISTING BUILDING SHALL BE PROTECTED FROM MOISTURE, DUST, AND DEBRIS. INSTALL DUST PARTITIONS OR DRAPES AS REQUIRED AND/OR AS DIRECTED BY THE TENANT'S CONSTRUCTION MANAGER.
4. ANY DAMAGE TO PROPERTY (ADJACENT OR EXISTING), WHICH OCCURS DURING THE PROCESS OF CONSTRUCTION SHALL BE REPAIRED/REPLACED AT NO ADDITIONAL COST TO THE TENANT.
5. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING.
6. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING BUILDING AT ALL TIMES. THIS INCLUDES KEEPING THE BUILDING SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS, OR HAZARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE INTEGRITY OF ALL EXISTING SECURITY SYSTEMS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM STORE MANAGER PRIOR TO THE MODIFICATION OF ANY EXISTING SECURITY SYSTEM FOR THE OPENING (DEMOLITION) OF ANY EXTERIOR WALL.
7. REMOVE ANY EXISTING ITEMS, SERVICES, FINISHES OR SURFACES AS REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION. PROVIDE FURRING FOR CONDUITS AND PIPING, SHOWN OR NOT, AND FINISH OUT FURRING TO MATCH ADJACENT EXISTING FINISHES.
8. REPAIR, RE-ROUTE, AND EXTEND ALL SERVICES, PIPING, CONDUIT OF EXISTING ITEMS AND EQUIPMENT AS REQUIRED DURING THE CONSTRUCTION PROCESS FOR THE COMPLETE INSTALLATION AND OPERATIONS OF NEW EQUIPMENT. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS. RESET EXISTING EQUIPMENT OR RELATED ITEMS AS REQUIRED FOR PROPER OPERATIONS.
9. WHERE EXISTING FINISHES ARE TO REMAIN, CLEAN, REPAIR, PATCH, AND/OR REPAINT AS NECESSARY TO BLEND WITH ADJACENT SURFACES OR AS CALLED OUT ON DRAWINGS. COORDINATE WITH THE TENANT'S CONSTRUCTION MANAGER.
10. THE CONTRACTOR SHALL RESPOND TO ALL REQUIREMENTS OF THE ENGINEER/ARCHITECT FOR VERIFICATIONS, RESPONSES AND SUBMISSIONS.
11. DURING ENTIRE CONSTRUCTION PERIOD, PROVIDE ONE UL LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHER, OR ONE STANDARD UL LISTED 2-1/2 GALLON WATER (E-10) AND ONE UL LISTED 10BC CARBON DIOXIDE FIRE EXTINGUISHER MOUNTED TOGETHER IN EACH 3000 SQ FT OF WORK AREA OR FRACTION THEREOF MINIMUM OF TWO AVAILABLE IN ALL CONSTRUCTION AREAS AT ALL TIMES).
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY ORDERING OF MATERIALS TO PROHIBIT DELAYS OF THE CONSTRUCTION SCHEDULE OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DELIVERY OF MATERIALS IN A TIMELY MANNER.
13. ALL ADJACENT BUILDINGS AND TENANT SPACES SHALL REMAIN IN SERVICE DURING DEMOLITION/CONSTRUCTION.
14. MUD AND DEBRIS TRACKED ONTO OWNER PAVING OR CITY STREETS TO BE CLEANED IMMEDIATELY.
15. IT IS IMPERATIVE THAT THE ROOF FRAMING AND ROOFING SYSTEM BE KEPT INTACT TO ELIMINATE POTENTIAL WATER DAMAGE OR MOISTURE INFILTRATION. THE CONTRACTOR SHALL KEEP THE BUILDING WATER-TIGHT AT ALL TIMES AND MAKE REPAIRS IMMEDIATELY SHOULD ANY DAMAGE OCCUR TO THE ROOFING SYSTEM.
16. BUILDING COMPONENTS AFFECTED BY THE SCOPE OF WORK AND ALLOWED TO REMAIN SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
17. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING.
18. REFER TO MEP DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED.
19. NOTES INDICATING DEMOLITION WORK ARE NOT CONFINED SOLELY TO THE DEMOLITION PLANS. THE GENERAL CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUSIVE OF SCHEDULES AND SPECIFICATIONS, TO DETERMINE FULL EXTENT OF DEMOLITION WORK.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS FOR EXISTING STRUCTURE AND TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION DURING DEMOLITION AND NEW CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A REGISTERED PROFESSIONAL ENGINEER TO DESIGN THE SHORING OR BRACING AND SPECIFY DEMOLITION PROCEDURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS OF DEMOLITION AND NEW CONSTRUCTION.
21. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF WALLS, DOORS, FIXTURES, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON DRAWING OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

GENERAL NOTES REGARDING MOLD AND MILDEW

1. THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS.
2. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION AND/OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT COULD INCLUDE THE PRESENCE OF MOLD AND/OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE TENANT'S REPRESENTATIVE AND THE PROFESSIONAL OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
3. CONCURRENTLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN A MOLD AND MILDEW CERTIFIED TESTING AGENCY TO PERFORM AN INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF THE TESTING AGENCY CONFIRMS HAZARDS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MINIMUM OF TWO (2) BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM ALL NECESSARY REMEDIATION WORK, COMPLYING WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS, CODES, AND STATUTES.
4. ONCE DISCOVERY OR SUSPICION OF MOLD AND/OR MILDEW IS MADE, THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE MEASURES AND PRACTICE PRECAUTIONS TO PROTECT ALL CONSTRUCTION PERSONEL AND THE PUBLIC FROM EXPOSURE TO MOLD AND/OR MILDEW, AND SUCH PRECAUTIONS SHALL REMAIN IN PLACE UNTIL SUCH A TIME AS THE OWNER OR HEALTH AUTHORITY DIRECTS OTHERWISE. CONSTRUCTION OPERATIONS SHALL NOT BE STOPPED OR CURTAILED, EXCEPT IN THE AREA OF MOLD/MILDEW CONCERN, DUE TO THESE REQUIRED PRECAUTIONS.
5. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO AVOID CONDITIONS FAVORABLE TO THE DEVELOPMENT OF MOLD AND MILDEW, ESPECIALLY IN VOIDS WHICH WILL BE CONCEALED AND NOT VENTILATED. IN ALL CASES, INTERIOR SPACES AND INTERIOR FINISHED CONSTRUCTION SHALL BE MAINTAINED IN DRY AND WELL-VENTILATED CONDITIONS.
6. THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OSHA REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW.
7. ALL PENETRATIONS SHALL BE SEALED WATER-TIGHT TO PREVENT MOISTURE MIGRATION FROM ENTERING THE BUILDING OR WALL CAVITIES.
8. INSURE THAT THERE ARE NO WATER LEAKS IN CONCEALED PLUMBING CHASES. ALL EXISTING SUPPLY AIR PATHS AND ALL EXISTING RETURN AIR PATHS AND PLENUMS SHALL BE KEPT DRY.
9. DUCTWORK TO BE RE-USED SHALL BE CLEANED AND TREATED AS REQUIRED TO REMOVE POTENTIAL FOR MOLD AND MILDEW. ALL DAMP AREAS SHALL BE DRIED THOROUGHLY PRIOR TO ENCLOSURE.

STATE OF MISSOURI — RICHARD A. MAJORS, JR. — NUMBER A-2012011457 — ARCHITECT — 04/21/21

OWNER
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
(515) 267-2800

ARCHITECT
BRR ARCHITECTURE, INC
8131 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
(913) 262-9095

STRUCTURAL ENGINEER
JOHNSTON BURKHOLDER ASSOC.
930 CENTRAL
KANSAS CITY, MO 64105
(816) 421-4200

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER
HENDERSON ENGINEERS
8345 LENEXA DR #300
LENEXA, KS 66214
(913) 742-5000

FINAL CONSTRUCTION DOCUMENTS - 10/20/2020

JPS

GENERAL NOTES

DESIGN LOADS

1. All design and construction work for this project shall conform to the 2018 edition of the International Building Code (IBC).
2. Design Loads:
   - A. Roof Loads:
     - Dead load ..... 20 psf (Per Existing Drawings)
     - Roof live load ..... 20 psf
     - Ground snow load ..... 20 psf
     - Flat roof snow load (snow drifting additional) ..... 20 psf
     - Snow importance factor ..... Is = 1.0
     - Snow exposure factor ..... Ce = 1.0
     - Thermal factor ..... Ct = 1.0
   - B. Wind Loads:
     - Risk category II
     - Ultimate design wind speed (3 sec gust) ..... 109 mph
     - Service design wind speed (3 sec gust)..... 85 mph
     - Wind exposure ..... B
     - Wind internal pressure coefficient ..... +/-0.18
     - Wind pressure for components and cladding..... 21.9 psf (Ultimate)
   - C. Seismic Loads:
     - 5% Damped mapped acceleration parameter ..... Ss = 0.100
     - 1-Sec period mapped acceleration parameter ..... S1 = 0.068
     - 5% Damped spectral response coefficient ..... Sds = 0.106
     - 1-Sec period spectral response coefficient ..... Sd1 = 0.109
     - Site class ..... D (Assumed)
     - Risk category II
     - Seismic importance factor ..... Ie = 1.0
     - Seismic design category ..... B
3. Shop drawings shall be submitted for review by the Architect and Engineer prior to fabrication.

CONSTRUCTION:

1. Furnish all labor, materials and equipment necessary to complete the work shown or implied by these drawings.
2. The General Contractor shall be responsible for verifying all dimensions and elevations with the Architectural and Mechanical drawings and the existing conditions. Ref Architectural and Mechanical drawings for embedded items not shown herein and to verify size and location of all openings. Before executing work shown herein, the General Contractor shall examine actual job conditions and report to the Engineer any error, omission or difficulty affecting the work.
3. The structure is designed to be self-supporting and stable after erection of the structure has been fully completed. It is the General Contractor's responsibility to determine erection sequencing and provide shoring and bracing as required to erect the structure.
4. The General Contractor shall provide adequate shoring or bracing during construction to resist forces such as wind and unbalanced loading due to construction.
5. Johnston Burkholder Associates, LLC, its employees, and representatives shall not be responsible for, and will not have control of, construction means and methods, techniques, sequences or procedures, or for safety precautions and programs in connection with construction; nor will they be responsible for any failure by the contractor to perform or complete construction in accordance with the contract documents. Jobsite visits by Johnston Burkholder Associates, LLC shall not constitute approval, awareness or liability for any hazardous conditions.
6. The General Contractor shall be responsible for protecting the existing building during construction.
7. Johnston Burkholder Associates assumes responsibility for the design of the new elements and systems shown on these drawings only. Johnston Burkholder Associates has not designed nor reviewed the design of the existing building in areas unaffected by new construction and accepts no responsibility for the structural adequacy or performance of the existing building in areas unaffected by new construction.

CONCRETE:

1. All concrete and reinforcement has been designed in accordance with the American Concrete Institute (ACI) Standard Building Code Requirements for Reinforced Concrete (ACI 318). All concrete work shall conform to the ACI Specifications for Structural Concrete (ACI 301) and the latest applicable recommendations of the ACI Manual of Standard Practice for Detailing Reinforced Concrete (ACI 315).
2. Materials shall conform with:
   - A. Cement-ASTM C150 Type I or II
   - B. Aggregate-ASTM C33
   - C. Water - Potable
3. All concrete used in the work shall have the following properties:
   - A. Footings
     - 3000 psi strength (f'c) at 28 days
     - 0.50 maximum water/cement ratio
     - less than 3% air content
     - 4" ± 1" slump at point of placement
   - B. Interior slabs-on-grade
     - 4000 psi strength (f'c) at 28 days
     - 0.53 maximum water/cement ratio
     - less than 3% air content
     - 4" ± 1" slump at point of placement
   - C. Exterior slabs-on-grade
     - 4000 psi strength (f'c) at 28 days
     - 0.40 maximum water/cement ratio
     - 6% ± 1.5% air content
     - 4" ± 1" slump at point of placement
4. Chlorides in any form or concentration shall not be added to any concrete.

CAST-IN-PLACE CONCRETE-EXECUTION:

1. All concrete is reinforced unless specifically noted as "unreinforced". Reinforce all concrete not otherwise shown with the same steel as shown in similar sections. Comply with ACI 304, "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete".
2. Cold weather conditions: When the average daily air temperature for 3 consecutive days is expected to be below 40 deg F and the air temperature does not exceed 50 deg F for more than 12 consecutive hours during this time, all concrete placement shall comply with the provisions of ACI 306 and as herein specified. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
3. Hot weather conditions: When elevated temperatures, humidity, and wind factors exist, all concrete shall comply with the provisions of ACI 305 and as here in specified.
4. Perform curing of concrete by curing and sealing compound, by moist curing, moisture-retaining cover curing, or by combinations thereof.
5. Maintain minimum concrete coverage for reinforcing as indicated unless otherwise noted in the drawings:
   - A. Earth formed/cast directly against soil ..... 3"
   - B. Cast against forms but exposed to earth or weather:
     - a. #6 and larger ..... 2"
     - b. #5 and smaller ..... 1 1/2"
   - C. Slabs and walls not exposed to earth/weather ..... 3/4"
   - D. Other ..... 2"
6. Control joints in slab-on-grade shall be as shown on the drawings. Where not shown, limit controlled areas to not more than 12'-0" on any side. Do not interchange construction and saw joints where a particular joint detail is specified on the drawings. A saw joint must terminate at a construction joint.
7. Coordinate concrete finishes, recessed areas, reveals, embedded items, special joint patterns, etc. with the Architectural drawings and specifications. Provide a 3/4" chamfer at all exposed edges of concrete. No aluminum items shall be embedded in concrete.
8. QUALITY CONTROL TESTING DURING CONSTRUCTION
   - A. General: The Owner shall employ a testing laboratory to perform tests and to submit test reports.
   - B. Sampling and testing for quality control during placement of concrete shall include the following, as directed by the Architect.
   - C. Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.
     - a. Slump: ASTM C 143; one test at point of discharge for each days pour of each type of concrete; additional tests when concrete consistency appears to have changed.
     - b. Air Content: ASTM C 173, volumetric method for lightweight or normal weight concrete; ASTM C 231 pressure method for normal weight concrete; one for each days pour of each type of air-entrained concrete.
     - c. Concrete Temperature: Test hourly when air temperature is 40 deg F (4 deg C) and below, when 80 deg F (27 deg C) and above, and each time a set of compression test specimens is made.
     - d. Compression Test Specimen: ASTM C 31; one set of 4 standard cylinders for each compressive strength test, unless otherwise directed. Mold and store cylinders for laboratory-cured test specimens except when field-cure test specimens are required.
     - e. Compressive Strength Tests: ASTM C 39; one set for each days pour plus additional sets for each 50 cu. yards. more than the first 25 cu. yards. of each concrete class placed in any one day; one specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing if required.
       - Strength level of concrete will be considered satisfactory if averages of sets of three consecutive strength test results equal or exceed specified compressive strength, and no individual strength test result falls below specified compressive strength by more than 500 psi.

POST-INSTALLED ANCHORS:

1. Post-installed anchors shall be installed in accordance with the Manufacturers Printed Installation Instructions (MPII). If anchors are to be installed in a horizontal or upward direction personnel shall be trained to install adhesive anchors through the ACI/CRSI Adhesive Anchor Installer Certification Program.
2. Post-installed anchors shall only be used where noted on the drawings. The use of post-installed anchors for repairs requires approval from the Engineer of Record.

STRUCTURAL STEEL:

1. All structural steel shall be ASTM A36 for shapes and plates, ASTM A53 Grade B for pipes, ASTM A500, Grade B or C for rectangular and square HSS members and ASTM 1085 for round HSS members, unless noted otherwise. W shapes shall be ASTM A992 or ASTM A572, Grade 50. Fabrication and erection shall be in accordance with the latest edition of the American Institute of Steel Construction (AISC) Manual of Steel Construction.
2. All welding shall conform to the current American Welding Society Specifications and be performed by certified welders.
3. All structural steel shall have one shop coat of rust inhibitor primer paint conforming to the specifications. Field touch up all unpainted, nicked and welded areas.
4. All unpainted, exterior steel shall be galvanized.
5. No permanent suspended loads are to be supported by metal deck.

STEEL JOISTS AND JOIST GIRDERS:

1. Existing steel joists and joist girders are assumed to be in good condition and in compliance with the Steel Joist Institute Specifications. Any damage to existing joists or joist girders shall be reported prior to adding load to framing.

LIGHT GAGE STEEL FRAMING:

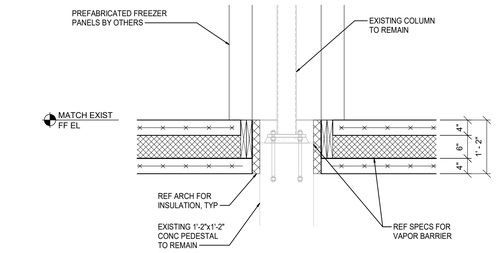
1. All light gage structural joists, studs, track and accessories shall be designed in accordance with the latest edition of the American Iron and Steel Institute (AISI) "Specification for the Design of Cold Formed Steel Structural Members", and shall be of the type, size, gage and spacing shown on the drawings.
2. All 16 gage and heavier studs and joists shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A1003 or A653, with a minimum yield strength of 50 ksi. All 18 gage and lighter studs, joists, track and accessories shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A1003 or A653, with a minimum yield strength of 33 ksi.
3. The design and details provided on these drawings are for the final in-place conditions. The General Contractor shall be responsible for temporary bracing, as required, prior to completion of all lateral support systems.
4. Fastening of components shall be with self-drilling screws, powder actuated fasteners (PAF) or welding. Screws and PAF's shall be installed such that a minimum 3/4" on center spacing and 3/4" edge distance is maintained. Fasteners in concrete shall have a minimum spacing of 3".
5. All welding shall be according to the American Welding Society (AWS) D1.3 specification, for "Structural Welding Code - sheet steel"; and shall be performed by certified welders. Consult AWS D19.0, "Welding Zinc Coated Steels" and ANSI standard Z49.1 for information regarding safe welding procedures. Weld sizes shall match the thickness of the thinner part. All welds shall be touched up with a zinc-rich paint on each side of the stud.
6. Prior to fabrication of framing, the General Contractor shall submit fabrication and erection drawings to the Architect/Engineer for review.
7. All framing components shall be cut squarely for attachment to perpendicular members, or, as required, for an angular fit against abutting members. All field cutting shall be done by sawing or shearing.
8. Unless noted otherwise, abutting lengths of track shall be spliced together using a piece of stud of the same width and thickness and (3) #10 screws per flange on each side of the splice.
9. Axially loaded studs shall be installed in a manner which will ensure that their ends are positioned against the inside of the track web prior to fastening. Studs shall be securely fastened to both flanges of the top and bottom track with (1) #10 screw.
10. Wall stud bridging shall be attached in a manner to prevent stud rotation. Bridging rows shall be installed at 4'-0" on center unless otherwise noted on drawings.
11. Wall stud and joist bridging shall be installed at the time of light gage erection. Member punch outs shall be aligned to allow bridging installation.
12. Sheathing shall be attached to the flange of each framing member as noted on the drawings. Where attachment is not noted, a maximum attachment spacing of 12" on center shall be used.
13. Sample Member Designation: 600S162-43:
    - 600 - Web size (6")
    - S - Member type; S - stud, T - track
    - 162 - Flange size (1 5/8")
    - 43 - Member thickness (mils); 33 - 20 gage, 43 - 18 gage, 54 - 16 gage
14. Acceptable Fasteners (UNO): (Substitutions shall be submitted for review)
    - A. Screws:
      - a. Light gage to light gage
        - Buildex TEK
        - Hilti Kwik-Pro
        - Simpson XS or FPHSD
      - b. Light gage Stud/Track to Concrete; 1/4" diameter
        - Simpson Titen HD-Mini
        - Hilti Kwik Con II+
        - Buildex Tapcon
        - Powers Tapper
    - B. Powder Actuated Fasteners (PAF);
      - a. Light gage Stud/Track to Concrete; 0.145" dia x 1" (Minimum)
        - Hilti X-U
        - Simpson PDP
        - Ramset Power Point SP114
      - b. Light gage Stud/Track to Steel, 0.157" diameter with length based on steel thickness
        - Hilti X-U
        - Simpson PDP
15. Prefabricated panels shall be square, with components attached in a manner to prevent racking and minimize distortion while lifting. The General Contractor shall provide temporary bracing where required.

MASONRY:

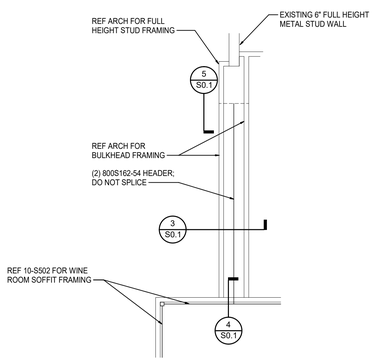
1. All concrete masonry units shall conform to ASTM C 90 specifications and shall be placed in running bond unless noted otherwise. Concrete masonry units above finished grade shall be either light weight or medium weight density. Concrete masonry units below finished grade shall be fully grouted normal weight density.
2. Concrete masonry shall have a minimum prism compressive strength, f'm, of 2000 psi. Minimum unit compressive strength shall be 1900 psi. All mortar for masonry shall be Type S, mortar cement in accordance with ASTM C 270. Masonry cement is not allowed. Provide mortar bed on web between grouted cell and hollow cell.
3. Masonry grout shall have a 28 day compressive strength of 2000 psi. Masonry Contractor shall submit grout mix design for review prior to construction. Grouted cells shall be placed in low lifts not to exceed 5'-4". High lift grouting may be used if Masonry Contractor submits written procedure to Engineer for review prior to construction of walls. All grouted cells shall be mechanically vibrated using a low energy device not greater than 1" diameter. Do not use concrete vibrator.
4. All reinforcing steel shall meet ASTM A615 Grade 60 or ASTM A706 Grade 60 and located in the center of CMU walls (+- 1/2") unless noted otherwise. Use wire rebar placement devices or other approved means to properly locate and secure reinforcement in place.
5. All bond beams and cells containing reinforcing steel, anchors, embedments, etc. shall be filled with grout. All hollow concrete masonry in contact with earth shall be grouted full.
6. All vertical reinforcement and continuous steel shall be lapped 52 bar diameters (2'-0" minimum) at splices unless noted otherwise on the drawings.
7. The Masonry Contractor shall be responsible for the temporary bracing of masonry walls before permanent lateral support is in place.
8. Masonry may be placed using normal procedures when temperatures are between 40-90 degrees
   - A. When temperatures are above or below this range, hot and cold weather masonry procedures outlined in the Specification for Masonry Structures (TMS 602) shall be followed.
   - B. When temperatures are above 100 degrees or 90 degrees with an 8 mph wind, "Hot weather procedures" must be followed.
   - C. When temperatures are below 40 degrees, "Cold weather procedures" must be followed.
     - a. Building with frozen materials is not allowed. Using calcium chloride is not allowed. All walls shall be covered at the end of each day.
9. Work in progress shall be inspected and materials, equipment and procedures evaluated for quality and acceptability by qualified personnel. Requirements for materials and construction of masonry shall be in accordance with the Specifications for Masonry Structures (TMS 602).

SPECIAL INSPECTIONS:

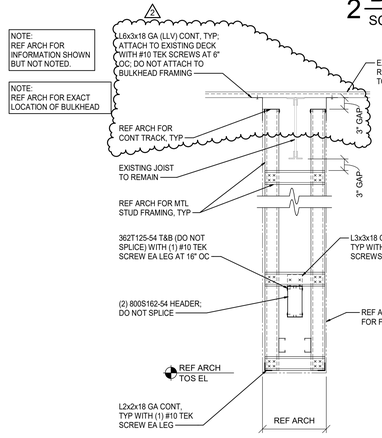
1. Special inspections shall be performed in accordance with Chapter 17 of the 2018 International Building Code (IBC). All special inspectors shall be qualified for inspection of the particular type of construction requiring special inspection and must be approved by the building official. Special inspectors shall perform the duties and responsibilities outlined in Chapter 17 of the 2018 edition of the IBC. Reports shall be submitted to the building official, architect, and engineer of record in a timely manner.
2. Types of work requiring special inspection:
   - A. Concrete per Section 1705.3:
     - a. Periodic inspection of the placement of reinforcing steel.
     - b. Periodic inspection of all post-installed anchors and continuous inspection of adhesive anchors installed horizontal or overhead in hardened concrete. Inspections shall include hole size and depth, cleaning procedure, materials, and location. All anchors installed in hardened concrete are subject to inspection.
     - c. Periodic verification of concrete mix design.
     - d. Continuous sampling of fresh concrete. Perform tests for slump, air content, and temperature. Cast specimens for strength tests (ref Cast-in-Place Concrete - Execution notes).
     - e. Continuous inspection of concrete placement for proper application techniques.
     - f. Periodic inspection for maintenance of curing and temperature techniques.
     - g. Periodic inspection of formwork for shape, location, and dimensions.
   - B. Masonry per Section 1705.4 and The Masonry Society (TMS) Building Code Requirements and Specification for Masonry Structures 402/602:
     - a. At the beginning of masonry construction, one masonry unit and one grout sample shall be taken for testing. Masonry units shall be tested in accordance with ASTM C140. Grout shall be tested in accordance with ASTM C1019.
     - b. If high lift grouting procedures are used, continuous inspection is required.
     - c. During construction, three masonry units and three grout samples shall be taken.
     - d. The placement of vertical reinforcement and the grouting of walls shall be observed during the initial and final grout pours.
     - e. CMU mortar samples and inspection of joints shall occur at the beginning of masonry construction.
     - f. Anchor bolt placement and grouting below beams or bearing plates at all beam bearing locations shall be inspected prior to the initial and final grout pours.
     - g. Periodic inspection of the preparation, construction, and protection of masonry during cold or hot weather conditions.
   - C. Structural Steel per Section 1705.2:
     - a. Periodic inspection for material verifications.
       1. High strength bolts, nuts and washer.
       2. Structural steel identification.
       3. Cold formed steel deck identification.
     - b. Periodic inspection of bearing-type bolted connections. Bolts shall be tightened to a snug-tight condition and observed only to ensure that all plies of the connected element have been brought into snug contact.
     - c. Qualifications of welding procedures and welders shall be verified prior to start of work. Periodic inspections shall be made of work in progress and a visual inspection of all welds shall be made prior to completion.
       1. Periodic inspection of single-pass welds.
       2. Periodic inspection of welded steel deck attachments.
       3. Periodic inspection of weld filler materials.
   - D. Shop Fabrication per 1705.10:
     - a. Special inspection is required for shop fabricated members unless the fabricator(s) is registered and approved to perform work without special inspections. Approval shall be based on the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved agency.



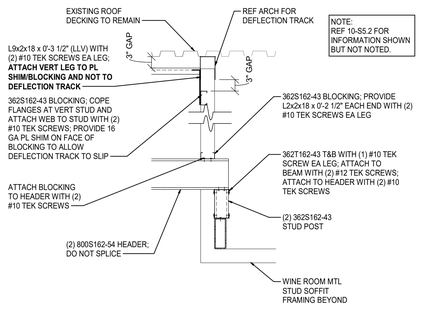
1 NEW FREEZER SLAB AT EXISTING COL
SCALE: 3/4" = 1'-0"



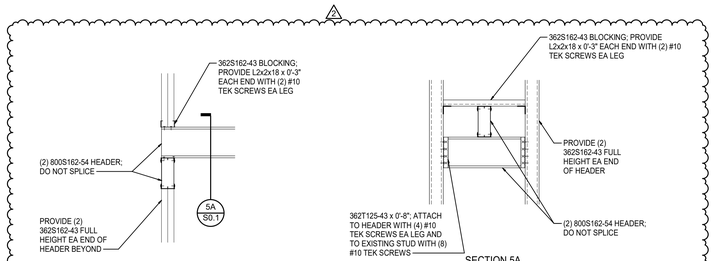
2 BULKHEAD PLAN
SCALE: 1/4" = 1'-0"



3 BULKHEAD FRAMING
SCALE: 3/4" = 1'-0"



4 BULKHEAD FRAMING
SCALE: 3/4" = 1'-0"



5 BULKHEAD FRAMING
SCALE: 3/4" = 1'-0"

ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BFF	BELOW FINISHED FLOOR
BL	BLOCK LINTEL
BM	BEAM
BO	BOTTOM OF
BOM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BRG	BEARING
CJ	CONTRACTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
EF	EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
ETR	EXISTING TO REMAIN
EW	EACH WAY
FDN	FOUNDATION
FF	FINISHED FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GC	GENERAL CONTRACTOR
H	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SHAPE
INFO	INFORMATION
ISO	ISOLATION
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LB	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANOUS
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PAF	POWER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB	PLUMBING
PMEJ	PREMOLDED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANITY
RACK	REFRIGERATION RACK
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPCS	SPACES
SPECS	SPECIFICATIONS
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
THK	THICKNESS
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH
WP	WORK POINT
WWF	WELDED WIRE FABRIC

REVISION		DATE BY
1	ASI #5	03/19/21
2	ASI #7	04/16/21

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 CENTRAL · KANSAS CITY, MO 64105
816-421-4290 · WWW.JBAENGR.COM
JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL



04/15/21

LOCATION
LEE'S SUMMIT, MO

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

STRUCTURAL NOTES

PROJECT MANAGER	CHECKED BY:
JSH	BJH
DRAWN BY:	DATE:
JBA	10/20/2020
SCALE:	JOB NUMBER:
As indicated	20332

SHEET:
S0.1

4/15/2021 6:59:29 AM

REVISION		DATE BY
1	ASI #2	01/08/21
2	ASI #3	01/26/21
3	ASI #5	03/19/21
4	ASI #7	04/16/21

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 CENTRAL · KANSAS CITY, MO 64105
816-421-4290 · WWW.JBAENGR.COM
JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL

STATE OF MISSOURI
BART HALVERSON
NUMBER 2012038744
REGISTERED PROFESSIONAL ENGINEER
04/15/21

LOCATION
LEE'S SUMMIT, MO

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee®
EMPLOYEE OWNED

NORTH

FOUNDATION PLAN

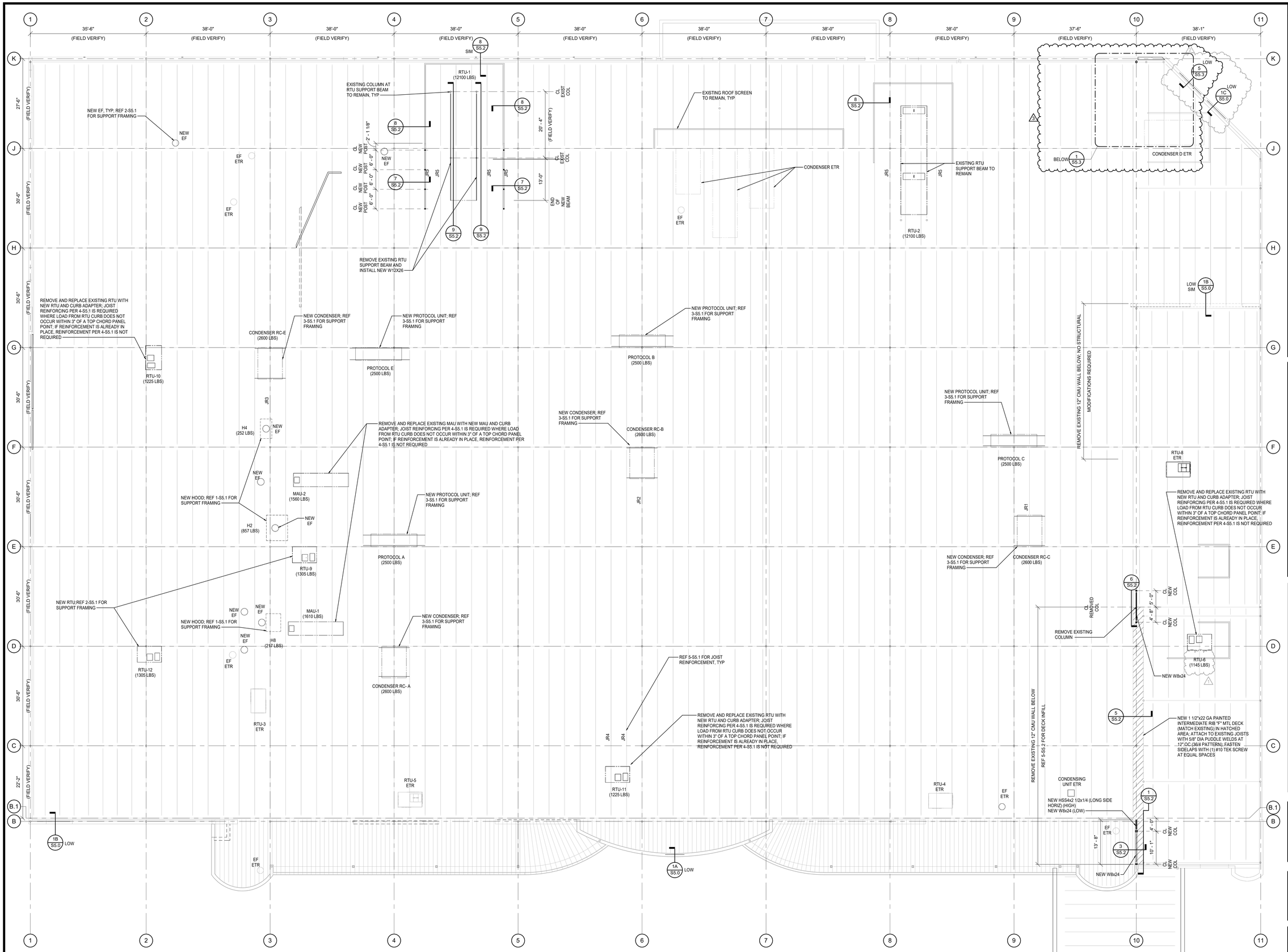
PROJECT MANAGER	CHECKED BY:
JSH	BJH
DRAWN BY:	DATE:
JBA	10/20/2020
SCALE:	JOB NUMBER:
3/32" = 1'-0"	20332

SHEET:

S1.0

4/15/2021 6:59:30 AM

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



1 ROOF FRAMING PLAN

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

4/15/2021 6:59:35 AM

REVISION		DATE BY
1	ASI #4	02/05/21
2	ASI #5	03/19/21
3	ASI #7	04/16/21

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 CENTRAL · KANSAS CITY, MO 64105
816-421-4290 · WWW.JBAENGR.COM
JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL

STATE OF MISSOURI
BART HALVERSON
NUMBER E-29239
PROFESSIONAL ENGINEER
04/15/21

LOCATION
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

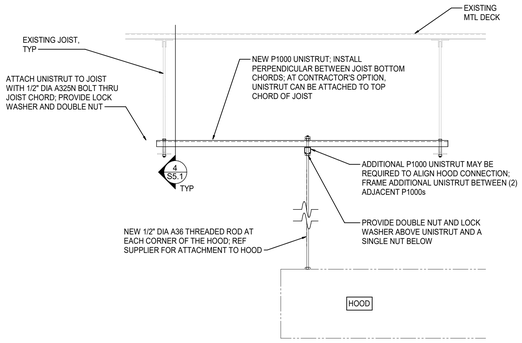
NORTH

ROOF FRAMING PLAN

PROJECT MANAGER	CHECKED BY:
JSH	BJH
DRAWN BY:	DATE:
JBA	10/20/2020
SCALE:	JOB NUMBER:
3/32" = 1'-0"	20332

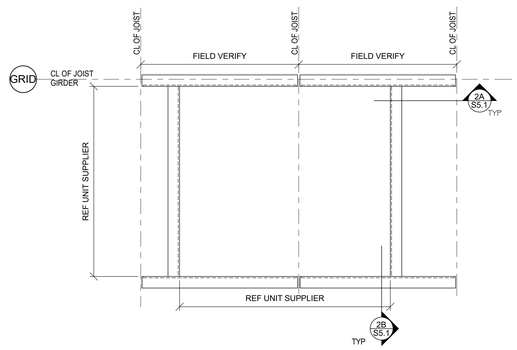
SHEET:

S2.0

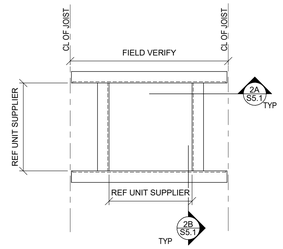


1 SUSPENDED HOOD SUPPORT

SCALE: 3/4" = 1'-0"



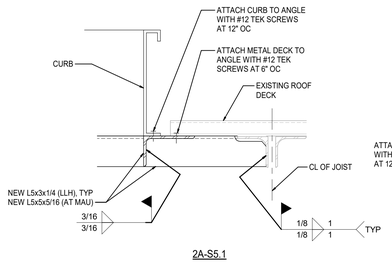
PLAN VIEW-RTU



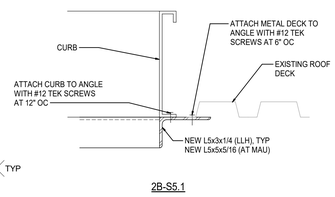
PLAN VIEW-EF

2 RTU/EXHAUST FAN SUPPORT FRAMING

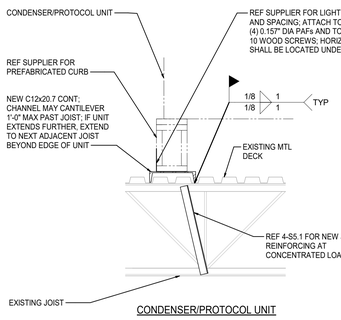
SCALE: NTS



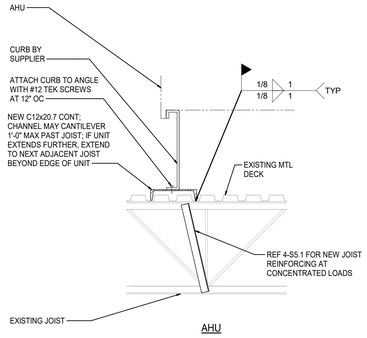
2A-S5.1



2B-S5.1



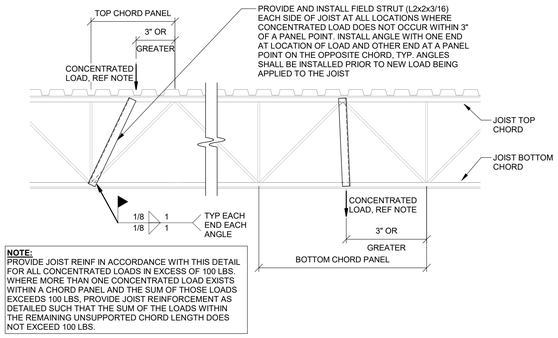
CONDENSER/PROTOCOL UNIT



AHU

3 CONDENSER/PROTOCOL UNIT/AHU SUPPORT FRAMING

SCALE: 3/4" = 1'-0"

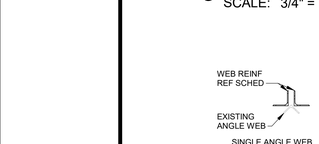


NOTE:
PROVIDE JOIST REINF IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS IN EXCESS OF 100 LBS. WHERE MORE THAN ONE CONCENTRATED LOAD EXISTS WITHIN A CHORD PANEL AND THE SUM OF THOSE LOADS EXCEEDS 100 LBS, PROVIDE JOIST REINFORCEMENT AS DETAILED SUCH THAT THE SUM OF THE LOADS WITHIN THE REMAINING UNSUPPORTED CHORD LENGTH DOES NOT EXCEED 100 LBS.

4 JOIST REINFORCING AT CONCENTRATED LOAD

SCALE: 3/4" = 1'-0"

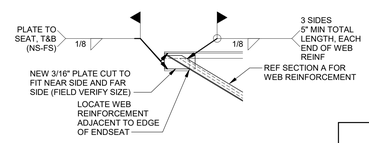
TOP TRACK AT FULL HEIGHT STUD WALL



SECTION 5A - WEB REINF

SECTION 5B - CHORD REINF

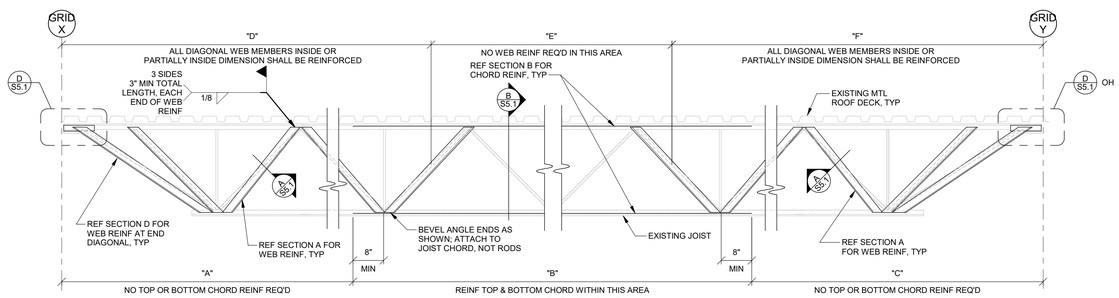
SECTION 5C - CHORD REINF SPLICE



SECTION 5D - END WEB REINF

JOIST REINFORCEMENT NOTES

1. JOIST WEB CONFIGURATION IS SHOWN FOR REFERENCE ONLY, FIELD VERIFY ACTUAL CONFIGURATION AND WEB TYPE.
2. ALL PAINT AND DEBRIS SHALL BE CLEANED FROM JOIST BEFORE WELDING REINFORCEMENT.
3. STEEL ERECTOR SHALL FIELD CUT REINFORCING TO FIT FROM STOCK LENGTHS.
4. EXTEND TOP AND BOTTOM CHORD REINFORCING A MINIMUM OF 8" BEYOND PANEL POINTS.
5. INSTALL WEB REINFORCING PRIOR TO CHORD REINFORCING. COPE OUTSTANDING LEG OF WEB REINFORCING AS REQUIRED FOR PLACEMENT OF CHORD REINFORCING.
6. IF EXISTING JOIST BRIDGING INTERFERES WITH INSTALLATION OF REINFORCING, REMOVE BRIDGING AND REPLACE IMMEDIATELY UPON COMPLETION OF REINFORCING INSTALLATION. IF BRIDGING TABS FOR BOLTED BRIDGING INTERFERE WITH INSTALLATION OF REINFORCING, REMOVE TABS AND REPLACE IMMEDIATELY UPON COMPLETION OF REINFORCING INSTALLATION. NEW CONNECTIONS SHALL MATCH EXISTING.
7. JOISTS SHALL BE REINFORCED PRIOR TO INSTALLATION OF MECHANICAL UNITS OR HANGING LOADS. ROOF SNOW LOAD SHALL BE REMOVED PRIOR TO JOIST REINFORCEMENT. REF 4-S5.1 FOR ADDITIONAL REINFORCEMENT REQUIRED AT CONCENTRATED LOADS.

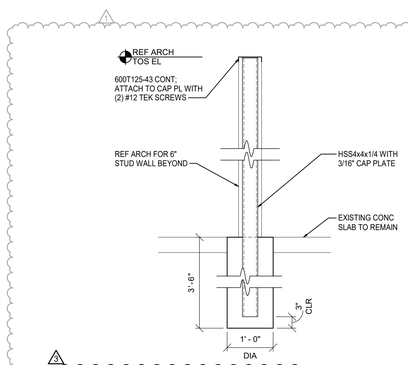


5 JOIST REINFORCEMENT

SCALE: 3/4" = 1'-0"

JOIST REINFORCING SCHEDULE

JOIST REINF MARK	CHORD REINF	WEB REINF	"A"	"B"	"C"	"D"	"E"	"F"	GRID X	GRID Y	NOTES
JR1	-	(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	0' - 0"	0' - 0"	E	F	1,2,3,6,7
JR2	-	(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	0' - 0"	0' - 0"	F	E	1,2,3,6,7
JR3		(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	0' - 0"	0' - 0"	G	F	1,2,3,6,7
JR4		(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	13' - 0"	0' - 0"	0' - 0"	B.1	D	1,2,3,6,7
JR5	(2) 1/2" DIA RODS	(2) L2x2x3/16	6' - 0"	18' - 6"	6' - 0"	14' - 6"	1' - 6"	14' - 6"	H	J	1,2,3,4,5,6,7



6 DSW/PARTIAL HEIGHT WALL SUPPORT POST

SCALE: 3/4" = 1'-0"

REVISION		DATE BY
1	ASI #3	01/26/21
2	ASI #4	02/05/21
3	ASI #7	04/16/21

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 CENTRAL · KANSAS CITY, MO 64105
816-421-4290 · WWW.JBAENGR.COM
JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL

STATE OF MISSOURI
BART HALVERSON
NUMBER E-29426
REGISTERED PROFESSIONAL ENGINEER
04/15/21

LOCATION
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

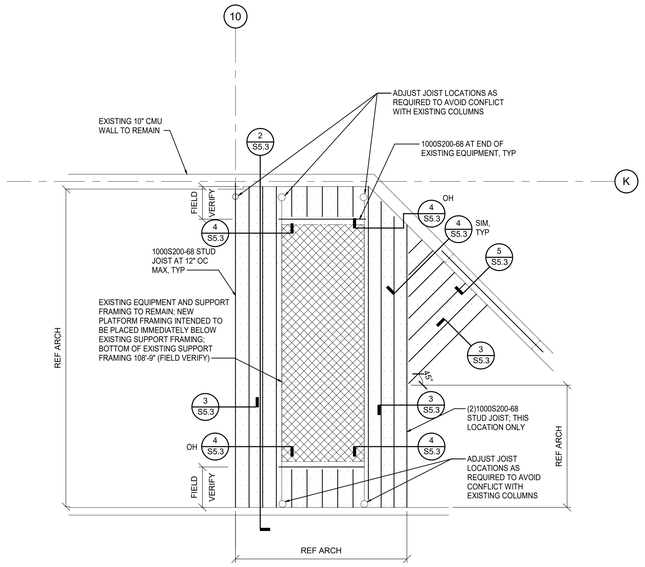
STRUCTURAL SECTIONS & DETAILS

PROJECT MANAGER	CHECKED BY:
JSH	Approver
DRAWN BY:	DATE:
Author	10/20/2020
SCALE:	JOB NUMBER:
As indicated	20332

SHEET:

S5.1

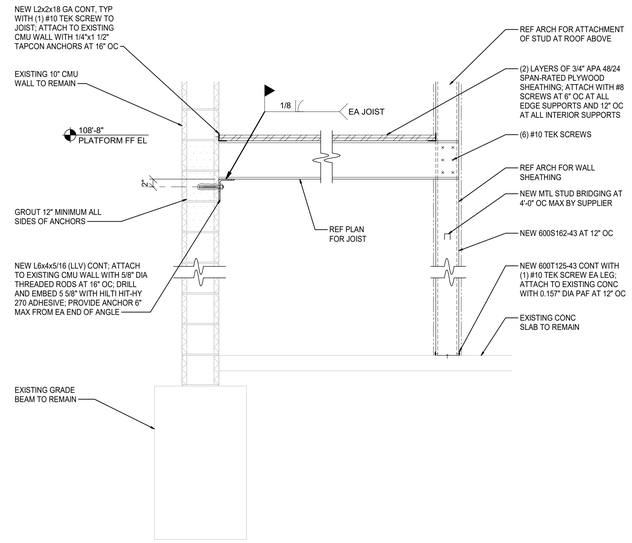
4/15/2021 6:59:37 AM



1 PLATFORM FRAMING PLAN

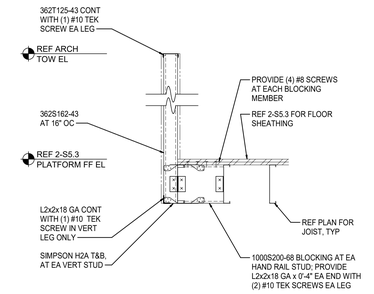
SCALE: 1/4" = 1'-0"

NOTE:
REF 1C-S5.0 AND 2-S5.3 FOR INFORMATION SHOWN BUT NOT NOTED.



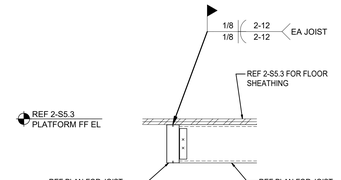
2 PLATFORM FRAMING

SCALE: 3/4" = 1'-0"



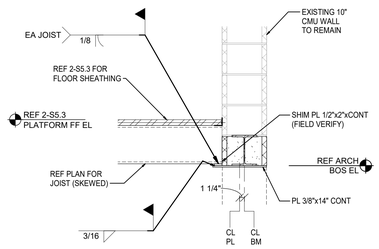
3 PLATFORM HAND RAIL

SCALE: 3/4" = 1'-0"



4 PLATFORM FRAMING

SCALE: 3/4" = 1'-0"



5 PLATFORM FRAMING

SCALE: 3/4" = 1'-0"

REVISION		DATE BY
1	ASI #7	04/16/21

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 CENTRAL · KANSAS CITY, MO 64105
816-421-4290 · WWW.JBAENGR.COM
JBA PROJ #: 19315 – JSH

PROFESSIONAL SEAL

STATE OF MISSOURI
BART HALVERSON
NUMBER A-2006037
REGISTERED PROFESSIONAL ENGINEER
04/15/21

LOCATION
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee®
EMPLOYEE OWNED

NORTH

STRUCTURAL SECTIONS & DETAILS

PROJECT MANAGER	CHECKED BY:
JSH	Approver
DRAWN BY:	DATE:
Author	10/20/2020
SCALE:	JOB NUMBER:
As indicated	20332

SHEET:

S5.3

4/16/2021 6:32:53 AM

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Austin
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

04/21/21
Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2930

Hy-Vee® EMPLOYEE OWNED

NORTH

FIXTURE & EQUIPMENT PLAN

PROJECT MANAGER: SB	CHECKED BY: JPS
DRAWN BY: AP	DATE: 3/19/2021
SCALE: 3/32" = 1'-0"	JOB NUMBER: 62930547
SHEET: A0.0	

4/21/2021 9:35:31 AM

1 FIXTURE AND EQUIPMENT PLAN
SCALE: 3/32" = 1'-0"

DEMOLITION NOTES

NOTE: WHERE JUST A PORTION OF A COOLER/FREEZER BOX OR COOLER/FREEZER BOX DOOR IS TO BE REMOVED, THE PARTIAL REMOVAL AND BOTH THE TEMPORARY AND PERMANENT SUPPORT OF THE EXISTING COOLER/FREEZER BOX CEILING ABOVE IS TO BE BY THE REFRIGERATION CONTRACTOR.

1. REMOVE WALL IN ITS ENTIRETY. PATCH/REPAIR EXISTING ADJACENT SURFACES TO RECEIVE NEW FINISHES.
2. REMOVE FIXTURE IN ITS ENTIRETY. CAP ALL ABANDONED UTILITIES. CONTRACTOR TO VERIFY WITH HY-VEE IF REMOVED EQUIPMENT IS TO BE SALVAGED.
3. REMOVE DOOR AND FRAME IN ITS ENTIRETY.
4. REMOVE COOLER/FREEZER WALLS, CEILINGS, FLOOR AND DOORS IN THEIR ENTIRETY, UNLESS NOTED OTHERWISE.
5. REMOVE PORTION OF CMU WALL. REF STRUC.
6. REMOVE COLUMN, REF STRUC
7. REMOVE PORTION OF COOLER/FREEZER WALL SHOWN DASHED
8. REMOVE ANY EXIT SIGNAGE ON, ABOVE, OR AROUND DOOR AS THIS DOOR WILL NO LONGER BE DESIGNATED AS AN EMERGENCY EGRESS DOOR. ANY ALARM SYSTEM AND HARDWARE ARE TO REMAIN INTACT.
9. REMOVE PORTION OF EXISTING WALL AS SHOWN IN DASHED LINES & PREP. FOR NEW WORK.

DEMO EXISTING WALL FINISHES FOR NEW - SEE - A3.3

DEMO EXISTING WALL FINISHES FOR NEW - SEE - A3.5

9 3'H @ 5'-0" A.F.F.

1'-6"

5'-0"

2 TYP

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

REVISION		DATE BY
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-2007007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License#A-2007007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

ARCHITECTURAL DEMOLITION PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

AD1.0

4/20/2021 3:20:01 PM

DEMOLITION LEGEND

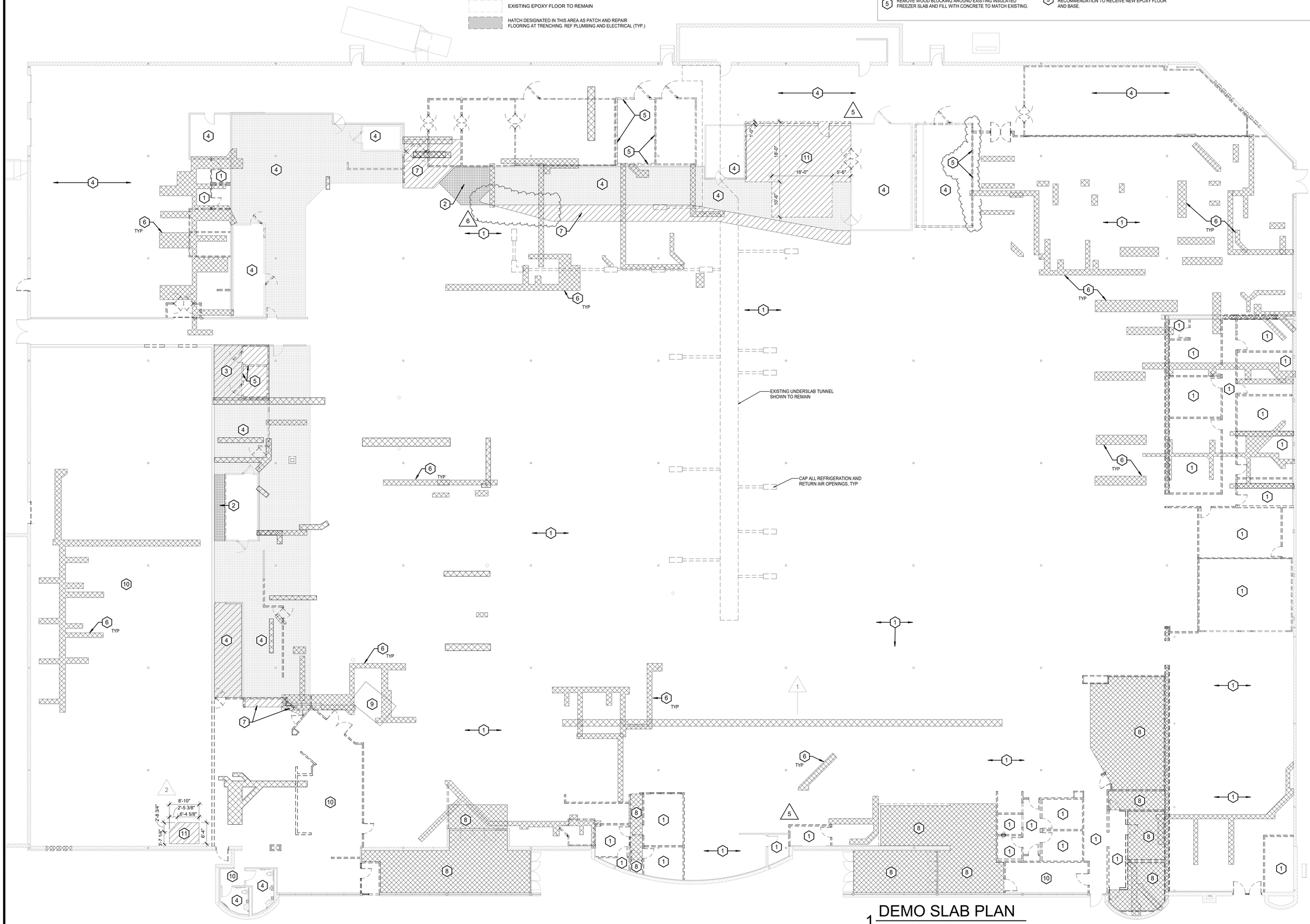
- CONCRETE SLAB DEMOLITION
- EXISTING FLOOR SLAB TO BE REMOVED FOR INSTALLATION OF UNDERSLAB UTILITIES
- EXISTING QUARRY TILE FLOOR TO BE REMOVED
- EXISTING QUARRY TILE FLOOR TO REMAIN
- EXISTING EPOXY FLOOR TO REMAIN
- HATCH DESIGNATED IN THIS AREA AS PATCH AND REPAIR FLOORING AT TRENCHING. REF PLUMBING AND ELECTRICAL (TYP.)

GENERAL NOTES

1. CONCRETE REMOVAL AREAS INDICATED FOR NEW UNDERSLAB UTILITY WORK ARE APPROXIMATE LOCATIONS. GENERAL CONTRACTOR AND REFRIGERATION CONTRACTORS ARE TO FIELD VERIFY EXISTING UNDERSLAB UTILITIES TO DETERMINE FINAL ROUTING OF NEW UNDERSLAB UTILITIES SO AS NOT TO CONFLICT WITH EXISTING UTILITIES TO REMAIN.
2. WHERE CONCRETE/FLOORING WORK IS REQUIRED AT EXISTING FLOORS THAT HAVE TILE, REMOVE PARTIAL TILES AROUND WORK AREA AS NEEDED SO THAT ONLY FULL TILES ARE USED TO FILL IN TO MATCH EXISTING.

DEMOLITION NOTES

1. REMOVE ALL EXISTING FLOOR FINISH IN ROOM & PATCH AND REPAIR FLOOR FOR NEW FINISH.
2. REMOVE ALL EXISTING QUARRY TILE IN AREA/ROOM & PREP AREA FOR NEW EPOXY SELF LEVELING INFILL AT DEPRESSED CONCRETE AREA TO MATCH FINISHED FLOOR HEIGHT OF SALES FLOOR.
3. REMOVE EXISTING CONCRETE SLAB AS NEEDED IN HATCHED AREA. PREP AREA FOR NEW INSULATED FREEZER SLAB.
4. EXISTING FINISHED FLOOR TO REMAIN, UNO.
5. REMOVE WOOD BLOCKING AROUND EXISTING INSULATED FREEZER SLAB AND FILL WITH CONCRETE TO MATCH EXISTING.
6. REMOVE EXISTING CONCRETE SLAB AS NEEDED IN HATCHED AREA FOR INSTALLATION OF NEW UNDERSLAB UTILITIES.
7. REMOVE EXISTNG FLOOR SLAB IN AREA INDICATED AND REPLACE WITH NEW FLOOR SLAB RECESSED 3/4" FOR INSTALLATION OF NEW QUARRY TILE. REF STRUCTURAL FOR REINFORCING REQUIRED AT JOINT BETWEEN OLD AND NEW FLOOR SLABS.
8. REMOVE EXISTING FLOOR FINISH AND BASE.
9. PREPARE FLOOR PER MANUFACTURERS RECOMMENDATION TO RECEIVE NEW EPOXY FLOOR AND BASE.
10. PREP EXISTING CONCRETE FLOOR FOR NEW FINISHES
11. REMOVE CONCRETE SLAB



1 DEMO SLAB PLAN
SCALE: 3/32" = 1'-0"

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

04/21/21
Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2930

Hy-Vee® EMPLOYEE OWNED

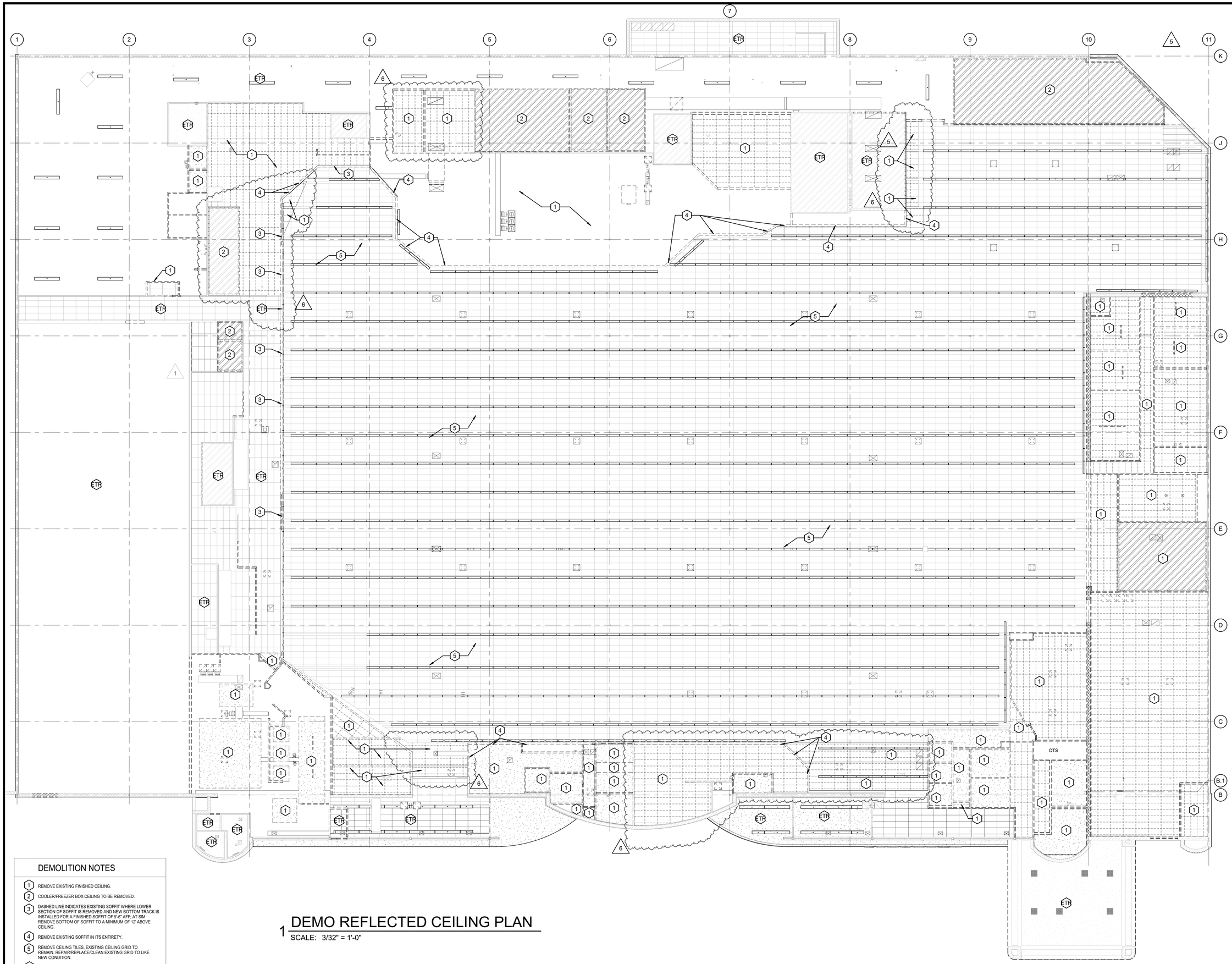
NORTH

DEMOLITION SLAB AND FLOOR FINISH PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:
AD2.0

4/15/2021 10:52:12 PM



DEMOLITION NOTES

1. REMOVE EXISTING FINISHED CEILING.
2. COOLER/FREEZER BOX CEILING TO BE REMOVED.
3. DASHED LINE INDICATES EXISTING SOFFIT WHERE LOWER SECTION OF SOFFIT IS REMOVED AND NEW BOTTOM TRACK IS INSTALLED FOR A FINISHED SOFFIT OF 9'-6" AFF; AT SIM. REMOVE BOTTOM OF SOFFIT TO A MINIMUM OF 12' ABOVE CEILING.
4. REMOVE EXISTING SOFFIT IN ITS ENTIRETY.
5. REMOVE CEILING TILES, EXISTING CEILING GRID TO REMAIN. REPAIR/REPLACE/CLEAN EXISTING GRID TO LIKE NEW CONDITION.

ETR EXISTING TO REMAIN

1 DEMO REFLECTED CEILING PLAN

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

4/20/2021 8:56:41 AM

REVISION		DATE BY
1	ASI #1	11/12/20
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boise
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

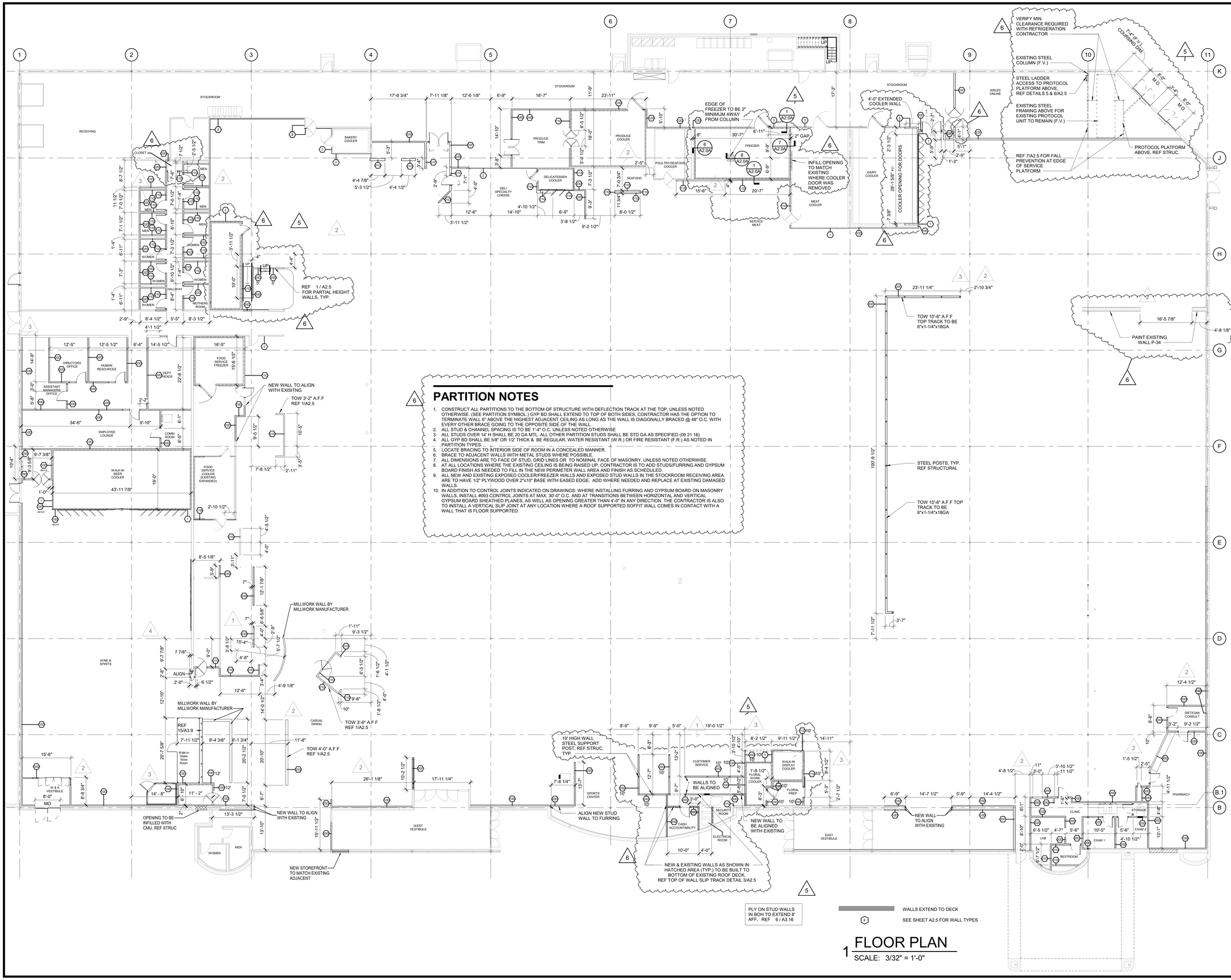
NORTH

DEMOLITION REFLECTED CEILING PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
	3/19/2021
SCALE:	JOB NUMBER
As indicated	62930547

SHEET:

AD5.1



PARTITION NOTES

1. CONSTRUCT ALL PARTITIONS TO THE BOTTOM OF STRUCTURE WITH DEFLECTION TRACK AT THE TOP, UNLESS NOTED OTHERWISE. (SEE PARTITION SYMBOL.) GYP BD SHALL EXTEND TO TOP OF BOTH SIDES, CONTRACTOR HAS THE OPTION TO TERMINATE WALL 6" ABOVE THE HIGHEST ADJACENT CEILING AS LONG AS THE WALL IS DIAGONALLY BRACED @ 48" O.C. WITH EVERY OTHER BRACE GOING TO THE OPPOSITE SIDE OF THE WALL.
2. ALL STUD & CHANNEL SPACING IS TO BE 1'-4" O.C. UNLESS NOTED OTHERWISE
3. ALL STUDS OVER 14' H SHALL BE 20 GA MTL. ALL OTHER PARTITION STUDS SHALL BE STD GA AS SPECIFIED (09 21 16)
4. ALL GYP BD SHALL BE 5/8" OR 1/2" THICK & BE REGULAR, WATER RESISTANT (W.R.) OR FIRE RESISTANT (F.R.) AS NOTED IN PARTITION TYPES.
5. LOCATE BRACING TO INTERIOR SIDE OF ROOM IN A CONCEALED MANNER.
6. BRACE TO ADJACENT WALLS WITH METAL STUDS WHERE POSSIBLE.
7. ALL DIMENSIONS ARE TO FACE OF STUD, GRID LINES OR TO NOMINAL FACE OF MASONRY, UNLESS NOTED OTHERWISE.
8. AT ALL LOCATIONS WHERE THE EXISTING CEILING IS BEING RAISED UP, CONTRACTOR IS TO ADD STUDS/FURRING AND GYPSUM BOARD FINISH AS NEEDED TO FILL IN THE NEW PERIMETER WALL AREA AND FINISH AS SCHEDULED.
9. ALL NEW AND EXISTING EXPOSED COOLER/FREEZER WALLS AND EXPOSED STUD WALLS IN THE STOCKROOM RECEIVING AREA ARE TO HAVE 1/2" PLYWOOD OVER 2"x10" BASE WITH EASED EDGE. ADD WHERE NEEDED AND REPLACE AT EXISTING DAMAGED WALLS.
10. IN ADDITION TO CONTROL JOINTS INDICATED ON DRAWINGS: WHERE INSTALLING FURRING AND GYPSUM BOARD ON MASONRY WALLS, INSTALL #093 CONTROL JOINTS AT MAX. 30'-0" O.C. AND AT TRANSITIONS BETWEEN HORIZONTAL AND VERTICAL GYPSUM BOARD SHEATHED PLANES, AS WELL AS OPENING GREATER THAN 4'-0" IN ANY DIRECTION. THE CONTRACTOR IS ALSO TO INSTALL A VERTICAL SLIP JOINT AT ANY LOCATION WHERE A ROOF SUPPORTED SOFFIT WALL COMES IN CONTACT WITH A WALL THAT IS FLOOR SUPPORTED.

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

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2933

Hy-Vee® EMPLOYEE OWNED

NORTH

FLOOR PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
3/32" = 1'-0"	62930547

SHEET:

A1.0

4/20/2021 9:28:21 AM

LEGEND

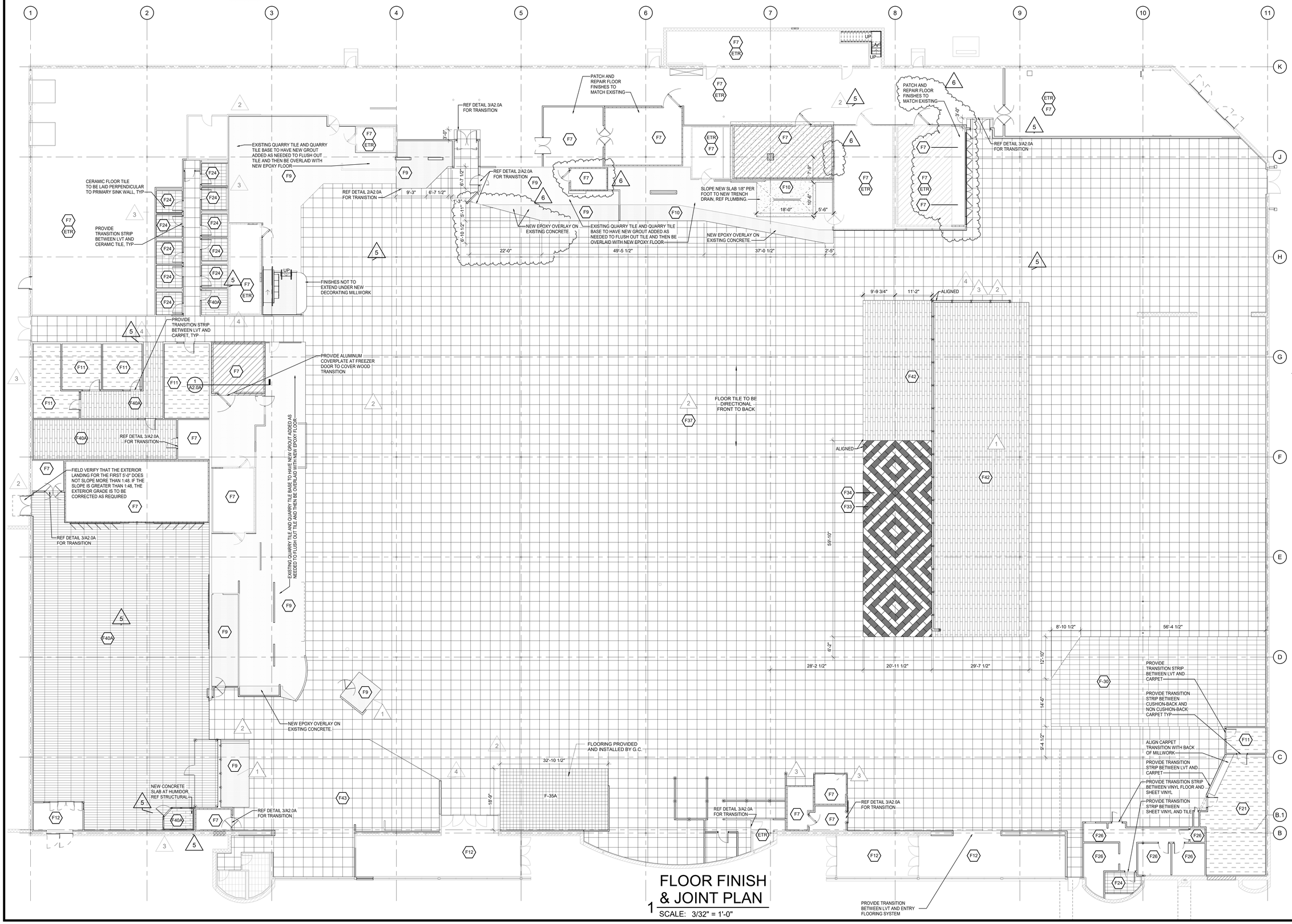
FLOOR DESIGNATED IN THIS AREA AS QUARRY TILE. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL. - CUT CONTROL JOINTS @ 15' O.C. MAXIMUM EACH DIRECTION	FLOOR DESIGNATED IN THIS AREA AS CARPET. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL.
FLOOR DESIGNATED IN THIS AREA AS EPOXY FLOOR. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL. - CUT CONTROL JOINTS @ 12' O.C. MAXIMUM EACH DIRECTION	FLOOR DESIGNATED IN THIS AREA AS LVT. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL.

SPECIAL INSULATED FLOOR FOR FREEZERS; SEE DETAIL ON A2.0A. JOINT AT EDGE ONLY

F-35A — VINYL FLOOR TILE - ASPECTA FIVE - WASHED CONCRETE - IRON - 12"x12", REF STARBUCKS DRAWINGS

GENERAL FLOORING NOTES

1. SEE SHEET A2.2 FOR ALL FLOOR FINISH, WALL AND BASE SPECIFICATIONS. SEE A3.7A FOR CLINIC FINISHES.
2. AT CLOSE OF PROJECT, FURNISH NOT LESS THAN ONE BOX FOR EACH 50 BOXES, OR FRACTION THERE OF, OF EACH CLASS,WEARING SURFACE, COLOR PATTERN, AND SIZE OF CARPET OR RESILIENT TILE INSTALLED.
3. PROVIDE 6" VINYL BASE AROUND DOUBLE EXPRESS LANES AND ALL MILLWORK IN NON-FOOD SERVICE DEPARTMENTS(TYPICAL).
4. INSTALL ALL CERAMIC AND PORCELAIN FLOOR TILE SO THAT GROUT JOINTS ARE 1/4" MAX.
5. INSTALL SCHLUTER RENO-RAMP EDGING AT ALL EXPOSED EDGES OF CERAMIC FLOOR TILE, DEPTH AS REQUIRED.
6. DO NOT SEAL CONCRETE ON COOLERS & FREEZERS.
7. CONTRACTOR SHALL CUT CONTROL JOINTS IN A TIMELY MANNER TO PREVENT SLAB CRACKING. CONTROL JOINTS ARE TO BE INSTALLED @ 12'-0" O.C. (MAX) OR AS SHOWN ON PLAN.
8. INSTALL EPOXY JOINT FILLER FOR ALL BACKROOM SAW & CONSTRUCTION JOINTS.
9. DIMENSIONS ARE FROM FACE OF WALL AND CENTERLINE OF COLUMNS (TYPICAL).
10. AT CONCRETE SLAB POUR JOINTS - PROVIDE 1/2"Ø SMOOTH GREASED DOWELS AT 18" O.C. FREEZERS AND MEAT COOLER FLOORS WILL NOT HAVE DOWELS AT EDGE JOINTS.
11. AT CONCRETE SLAB CONTROL JOINTS - SAW JOINT TO BE 1-1/4" DEEP MINIMUM.
12. EPOXY FINISH TO EXTEND TO INTERIOR SIDE OF THRESHOLD TO COVER WOOD TRANSITION @ FREEZERS AND COOLERS.
13. FLOORS TO SLOPE TO FLOOR DRAINS WHERE NOTED. MAXIMUM SLOPE OF 1/4" PER FOOT CROSS SLOPE TO MEET ADA & LOCAL CODES.
14. AT EXISTING FLOOR SLOPES THAT SLOPE TO EXISTING AREA DRAINS, BUT ARE NO LONGER WITHIN A PREP SPACE, INSTALL EPOXY CONCRETE FLOOR LEVELER TO BRING FINISH FLOOR UP TO BE LEVEL WITH ADJACENT SLABS.



1 FLOOR FINISH & JOINT PLAN

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

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Austin
Reno
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI — RICHARD A. MAJORS, JR. — NUMBER A-007528 — REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

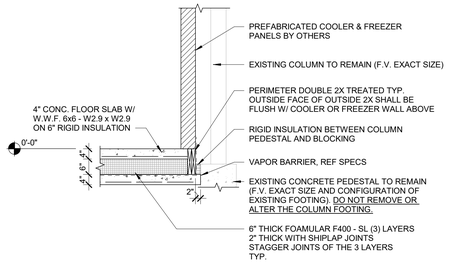
FLOOR FINISH & JOINT PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

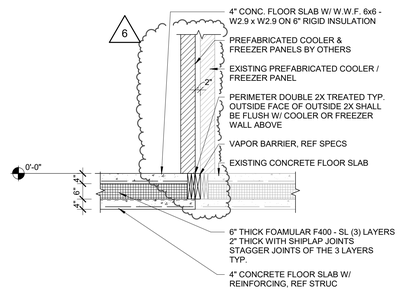
A2.0

4/14/2021 10:17:52 AM



8 INSULATED FLOOR SECTION

SCALE: 1/2" = 1'-0"

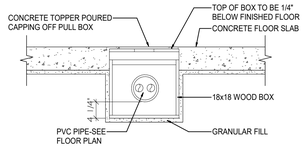


7 INSULATED FLOOR SECTION

SCALE: 1/2" = 1'-0"

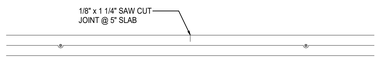
6 INSULATED FLOOR SECTION

SCALE: 1/2" = 1'-0"



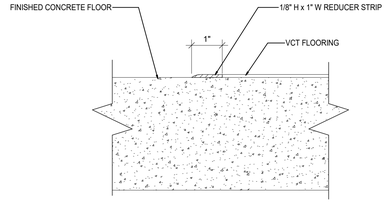
5 PVC TRENCH JUNCTION

SCALE: 3/4" = 1'-0"



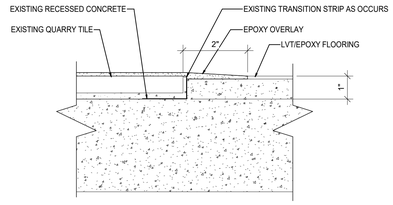
4 CONCRETE SLAB CONTROL JOINT

SCALE: 1" = 1'-0"



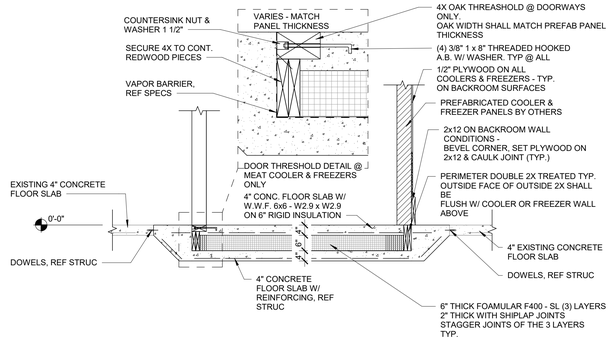
3 VCT TRANSITION

SCALE: 6" = 1'-0"



2 EPOXY TRANSITION @ EXISTING TILE

SCALE: 6" = 1'-0"



1 INSULATED FLOOR SECTION

SCALE: 1/2" = 1'-0"

REVISION		DATE BY
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boise
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

04/21/21

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

FLOOR FINISH & JOINT PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

A2.0A

4/14/2021 10:17:53 AM

SIGNAGE

KEY	MANUFACTURER	DESCRIPTION	SIZE	MATERIAL	LOCATION
AISLE-1	SPORT GRAPHICS	AISLE MARKERS	2' X 3'-8"	1/4" CLEAR ACRYLIC	CENTERED ON LAST UPRIGHT OF EACH AISLE
ASIAN-1	SPORT GRAPHICS	ASIAN	24" H	1.5" GATORFOAM, WILSONART #6257	ASIAN BULKHEAD
ARTISAN-1	SPORT GRAPHICS	ARTISAN BREAD	3'-6" X 8'-8"	2" GATORFOAM	ARTISAN BREAD BULKHEAD
BAGEL-1	SPORT GRAPHICS	BAGEL	2'-7" H	VINYL	BAGEL BULKHEAD
BAGEL-2	HY-VEE SIGN SHOP	THE WHOLE STORY	36" X 24"	PRINTED VINYL ON BLACK PVC	BAGEL BACK WALL, LOCATION VARIES
BAKE-1	SPORT GRAPHICS	BAKERY	3' H	VINYL	BAKERY BULKHEAD
BAKE-2	SPORT GRAPHICS	FRESH BAKED BREADS & BUNS	2' x 6.5'	3/16" ULTRABOARD, PRINTED	WALL ABOVE BREAD RACKS
BAKE-3	SPORT GRAPHICS	OILS & VINEGARS	2' x 6.5'	3/16" ULTRABOARD, PRINTED	WALL ABOVE OILS & VINEGARS
BAKE-4	HY-VEE SIGN SHOP	THE ART OF BREADMAKING - VERT.	64" X 39"	PRINTED VINYL ON BLACK PVC	BAKERY BACK WALL, LOCATION VARIES
BAKE-4.2	HY-VEE SIGN SHOP	THE ART OF BREADMAKING - HORIZ.	48" X 64"	PRINTED VINYL ON BLACK PVC	BAKERY BACK WALL, LOCATION VARIES
BAKE-5	HY-VEE SIGN SHOP	FRESH BAKED	10" X 48"	PRINTED VINYL ON BLACK PVC	ABOVE ONE MONITOR ON OVEN WALL
BAKE-5.1	HY-VEE SIGN SHOP	ARTISAN CRAFTED	10" X 48"	PRINTED VINYL ON BLACK PVC	ABOVE ONE MONITOR ON OVEN WALL
CAND-1	SPORT GRAPHICS	CANDY SIGNFOAM LETTERS & DECAL	20" X 48"		
CHAR-1	SPORT GRAPHICS	CHARCUTERIE	1'-6" H	19MM PVC, PIN MOUNTED	HALF ON-HALF OFF CHARCUTERIE BULKHEAD
CHAR-1.2	SPORT GRAPHICS	CHARCUTERIE	1'-3" H	19MM PVC, PIN MOUNTED	HALF ON-HALF OFF CHARCUTERIE BULKHEAD
CHAR-2	HY-VEE SIGN SHOP	LA QUERCIA STORY	2'W X 4'H	PVC, PRINTED	CHARCUTERIE BACK WALL - LOCATION VARIES
CHAR-3	HY-VEE SIGN SHOP	BUILD A BOARD	2'W X 4'H	PVC, PRINTED	CHARCUTERIE BACK WALL - LOCATION VARIES
CHEE-1	SPORT GRAPHICS	SPECIALTY CHEESE WALLCOVERING	SEE A3.13	VINYL WALLCOVERING	SPECIALTY CHEESE BULKHEAD
CHEE-2	HY-VEE SIGN SHOP	WORLD CLASS OFFERINGS	46" X 36"	PVC, PRINTED	SPECIALTY CHEESE BACK WALL - LOCATION VARIES
CHEE-3	HY-VEE SIGN SHOP	MILK TYPES	24" X 19"	PVC, PRINTED	SPECIALTY CHEESE BACK WALL - LOCATION VARIES
CHEE-4	HY-VEE SIGN SHOP	CHEESE STORAGE	24" X 14"	PVC, PRINTED	SPECIALTY CHEESE BACK WALL - LOCATION VARIES
CHEE-5	HY-VEE SIGN SHOP	CHEESE TYPES	18" X 36"	PVC, PRINTED	SPECIALTY CHEESE BACK WALL - LOCATION VARIES
CHEE-6	SPORTS GRAPHICS	SPECIALTY CHEESE LETTERS	SEE ELEV.	19MM PVC	SPECIALTY CHEESE FRAME BULKHEAD
CHOP-1	SPORT GRAPHICS	CHOPHOUSE MEATS	4' H	2" GATORPLAST W/ PRINTED WOOD PLANKS 1.5" GATORFOAM W/ WILSONART #6257	CHOPHOUSE MEATS BULKHEAD
CHOP-1.2	SPORT GRAPHICS	CHOPHOUSE MEATS - SMALL	3' H X 23'-5"W	2" GATORPLAST W/ PRINTED WOOD PLANKS 1.5" GATORFOAM W/ WILSONART #6257	CHOPHOUSE MEATS BULKHEAD
CHOP-2	HY-VEE SIGN SHOP	CHOICE RESERVE STORY - HORIZ.	30" X 60"	PVC, PRINTED	CHOPHOUSE MEATS BACK WALL -LOCATION VARIES
CHOP-2.1	HY-VEE SIGN SHOP	CHOICE RESERVE STORY - VERT.	30" X 60"	PVC, PRINTED	CHOPHOUSE MEATS BACK WALL -LOCATION VARIES
CHOP-3	HY-VEE SIGN SHOP	CHOPHOUSE MEATS POSTER	35" X 45"	PVC, PRINTED	CHOPHOUSE MEATS BACK WALL -LOCATION VARIES
CHOP-4	HY-VEE SIGN SHOP	DRY AGED BEEF	15" X 60"	PVC, PRINTED	DRY AGED BEEF CASE
CHOP-5	HY-VEE SIGN SHOP	MEAT BUNDLES	24" X 30"	PVC, PRINTED	HANGING ON RAIL IN FRONT OF ACCENT WALL
CUST-1	SPORT GRAPHICS	3 PANELS HANGING FROM PLANK, SM.	31"H x 39"W	PVC, PRINTED. WILSONART SKYLINE WALNUT.	CUSTOMER SERVICE BACK WALL
CUST-1.2	SPORT GRAPHICS	3 PANELS HANGING FROM PLANK, LG.	44"H x 56"W	PVC, PRINTED. WILSONART SKYLINE WALNUT.	CUSTOMER SERVICE BACK WALL
CUST-2	SPORT GRAPHICS	CUSTOMER SERVICE - LARGE	14" H	VINYL LETTERS	WALL BEHIND CUSTOMER SERVICE COUNTER
CUST-2.2	SPORT GRAPHICS	CUSTOMER SERIVCE - SMALL	10.5" H	VINYL LETTERS	WALL BEHIND CUSTOMER SERVICE COUNTER
CUST-2.3	SPORT GRAPHICS	CUST. SERVICE HANGING - LARGE	1'-8" X 15'-8"	VINYL LETTERS ON FROSTED ACRYLIC PANEL	HANGING ABOVE CUSTOMER SERVICE COUNTER
CUST-2.4	SPORT GRAPHICS	CUST. SERVICE HANGING - SMALL	1'-9" X 7'-11"	VINYL LETTERS ON FROSTED ACRYLIC PANEL	HANGING ABOVE CUSTOMER SERVICE COUNTER
CUST-3	SPORT GRAPHICS	DRY CLEANING - LARGE	8" H	VINYL LETTERS	WALL AT DRY CLEANING
CUST-3.2	SPORT GRAPHICS	DRY CLEANING - SMALL	6" H	VINYL LETTERS	WALL AT DRY CLEANING
CUST-3.3	SPORT GRAPHICS	DRY CLEANING HANGING SIGN	1'-2" X 7'	VINYL LETTERS ON FROSTED ACRYLIC PANEL	HANGING ABOVE DRY CLEANING
CUST-4	SPORT GRAPHICS	A HELPFUL SMILE IN EVERY AISLE	11" H	1" GATORFOAM	FRONT WALL, LOCATION VARIES
CUST-5	HY-VEE SIGN SHOP	OUR SERVICES	24"H X 36"W		WALL BEHIND CUSTOMER SERVICE COUNTER
CUST-6	HY-VEE SIGN SHOP	SOFTENER SALT	24"H X 36"W		WALL BEHIND CUSTOMER SERVICE COUNTER
CUST-7	SPORT GRAPHICS	2020 REDESIGN DEPARTMENT HEADER	TBD	1" GATORFOAM	CUSTOMER SERVICE BACK WALL ABOVE MONITORS
CUST-8	SPORT GRAPHICS	AISLES ONLINE CART LOGO	TBD	TBD	CUSTOMER SERVICE RETURN WALL
DAIRY-1	SPORT GRAPHICS	FARM FRESH DAIRY	1'-8" H	3" DEEP ALUMINUM CHANNEL LETTERS	MILK COOLER
DAIRY-1.2	SPORT GRAPHICS	FARM FRESH DAIRY - STACKED	3' H TOT.	3" DEEP ALUMINUM CHANNEL LETTERS	MILK COOLER
DAIRY-1.3	SPORT GRAPHICS	VE VERSION OF DAIRY DECOR	SEE ELEV.	VINYL WALL COVERING	MILK COOLER
DECA-1	SPORT GRAPHICS	DECADENT DELIGHTS	1'-2" H	1.5" GATORFOAM, WILSONART #6257	DECADENT DELIGHTS BULKHEAD, SITTING ON 1x2" RAIL
DECA-2	HY-VEE SIGN SHOP	DONUT STORY	36" X 46"	WHITE INK ON BLACK PVC	DECADENT DELIGHTS BULKHEAD, SITTING ON 1x2" RAIL
DELI-1	SPORT GRAPHICS	DELICATESSEN	1'-3" H	19MM PVC, WILSONART #6257, ROD MOUNT	HANGING FROM BOTTOM OF DELICATESSEN BULKHEAD
DELI-2	SPORT GRAPHICS	LONG ISLAND DELI	2' 6" X 10'	TBD	LONG ISLAND DELI
DELI-3	SPORT GRAPHICS	ORDER HERE ARROW	2' 6" X 10'	TBD	LONG ISLAND DELI
DIN-1	SPORT GRAPHICS	DINING AREA	2' x 10'	3/4" GATORFOAM, FORMICA #605	OVER ENTRANCE TO CASUAL DINING
DIN-2	SPORT GRAPHICS	DINING & BAR	2' x 10'	3/4" GATORFOAM, FORMICA #605	OVER ENTRANCE TO CASUAL DINING
DINER-1	ZON	THE DINER	2' H LETTERS	ACRYLIC LETTERS ON ALUMINUM RAILS	ON BULKHEAD OVER DINER COUNTER
DSW-1	SPORT GRAPHICS	DSW DESIGNER SHOES. WAREHOUSE PRICES. DIMENSIONAL LETTERS	2' H LETTERS	1/2" RIGID PVC DIMENSIONAL LETTERS, PIN MOUNTED & STOOD OFF 1/2" FROM PANEL. MATCH SHERWIN WILLIAMS 7048,URBAN BRONZE	DSW DEPARTMENT BACK WALL
FLOR-1	SPORT GRAPHICS	HY-VEE FLORAL LOGO - LARGE	3' DIAM.	VINYL	TILE WALL BEHIND CASH WRAP
FLOR-1.2	SPORT GRAPHICS	HY-VEE FLORAL LOGO - SMALL	2' DIAM.	VINYL	
FLOR-2	SPORT GRAPHICS	HY-VEE FLORAL LOGO - HANGING	2' DIAM.	3-16" BLACK ACRYLIC	
FLOR-3	SPORT GRAPHICS	HY-VEE FLORAL LOGO - WALL MOUNT	2' DIAM.	3-16" BLACK ACRYLIC	WALL ABOVE BOUQUET COOLER
FROZ-1	SPORT GRAPHICS	FROZEN HANING LETTERS	2'-6" H	1/4" ACRYLIC, 4 LAYERS	HANGING ABOVE FROZEN DEPARTMENT
GS-1	SPORT GRAPHICS	GUEST SERVICES DEPARTMENT SIGN	9'-7" W	3/8" WHITE ACRYLIC	GUEST SERVICES BACK WALL TO ALIGN OVER TOP OF TV'S
HHCF-1	SPORT GRAPHICS	HICKORY HOUSE COMFORT FOODS	3'-8" H	3/16" GATORFOAM ON 1/8" ACRYLIC BACKER	HICKORY HOUSE COMFORT FOODS BULKHEAD
HHCF-1.2	SPORT GRAPHICS	HICKORY HOUSE COMFORT FOODS	3' H	3/16" GATORFOAM ON 1/8" ACRYLIC BACKER	HICKORY HOUSE COMFORT FOODS BULKHEAD
HIB-1	SPORT GRAPHICS	THE HIBACHI	1'-8" H	6MM PVC, CHEMETAL 902	HIBACHI BULKHEAD - SUPERSEDED, USE HIB-2 INSTEAD
HIB-1.2	SPORT GRAPHICS	THE HIBACHI	1'-3" H	6MM PVC, CHEMETAL 902	HIBACHI BULKHEAD - SUPERSEDED, USE HIB-2 INSTEAD
HIB-2	SPORT GRAPHICS	HIBACHI BACKER PANELS	4' x 8'	3MM PVC SHEETS, PRINTED	HIBACHI BULKHEAD
HIB-3	HY-VEE SIGN SHOP	WOK THIS WAY	20" X 36"		HIBACHI KITCHEN BACK WALL, LOCATION VARIES
HMKT-1	SPORT GRAPHICS	HEALTHMARKET HANGING PANELS	21'-6" X 48"	3/4" MAPLE PLYWOOD, WHITE WASH	HANGING ABOVE HEALTHMARKET
JF-1	SPORT GRAPHICS	JOE FRESH SUSPENDED LOGO	2'-6" X 16'	2" LAMINATED FOAM, PRINTED VINYL FACE	HANGING AGAINST BACK WALL
MEAL-1	SPORT GRAPHICS	MEALTIME ORB	15' DIA. x 22"	2" LAMINATED FOAM, PRINTED VINYL FACE	HANGING ABOVE MEALTIME CASES
MEAL-2	SPORT GRAPHICS	MEALTIME LOGO	28" H	VINYL	FOR STORES THAT HAVE MEALTIME CASES AGAINST A WALL
MEAL-3	SPORT GRAPHICS	MEALTIME LOGO	20" X 96"	1" ULTRABOARD, DIGITALLY PRINTED FACE	FOR STORES THAT HAVE MEALTIME CASES ON THE LINE
MEAL-4	SPORT GRAPHICS	MEALTIME LARGE FORK AND LOGO	XX	XX	FOR STORES THAT HAVE MEALTIME CASES WITH OPEN WALL
MG-1	SPORT GRAPHICS	MARKET GRILLE FRAMED SIGN	4' H X 15' L	1" GATORFOAM LETTERING, 2" FRAME, VWC	MARKET GRILLE BULKHEAD
MG-2	SPORT GRAPHICS	ORDER & PAY LETTERS	6" H	1" ULTRABOARD, DIGITALLY PRINTED FACE	MOUNTED ON EYEBROW OVER PAY STATIONS
MG-3	SPORT GRAPHICS	MADE FRESH CIRCLE	3' DIAM.		MOUNTED ON EYEBROW OVER PAY STATIONS
MG-4	SPORT GRAPHICS	ORDER & PAY HANGING PANEL	9' L X 9" H		CEILING MOUNTED OVER PAY STATION
MG-5	SPORT GRAPHICS	MARKET GRILLE LETTERS & FLAME	11' 5" L X 3' H	1" GATOR FOAM LETTERING	MOUNTED TO ALUMINUM STOREFRONT SYSTEM IN FLAGSHIP STORES
MGE-1	SPORT GRAPHICS	MARKET GRILLE EXPRESS	10' L	1" GATORFOAM	MARKET GRILLE EXPRESS BULKHEAD
MGE-1.2	SPORT GRAPHICS	MARKET GRILLE EXPRESS	8' L	1" GATORFOAM	MARKET GRILLE EXPRESS BULKHEAD
MGE-2	SPORT GRAPHICS	BREAKFAST & BURGERS	19.5" H	1" GATORFOAM, BRUSHED ALUMINUM VINYL	MARKET GRILLE EXPRESS BULKHEAD, BELOW MKT GRILLE SIGN
MGE-3	SPORT GRAPHICS	EXPRESS ORDER	14" x 54"	6MM BLACK SINTRA	SELF-ORDER STATIONS
MGE-4	SPORT GRAPHICS	MARKET GRILLE EXPRESS FRAMED SIGN	3' 11" H X 10' L	1" GATOR FOAM LETTERING, 2" FRAME, VWC	MARKET GRILLE EXPRESS BULKHEAD
MIA-1	SPORT GRAPHICS	MIA PIZZA	4'-5" H	MIA PIZZA PADDLE	MIA PIZZA BULKHEAD
NORI-1	SPORT GRAPHICS	NORI SUSHI	2'-8" H	1/2" & 1" ACRYLIC	TWO SIGNS ON OPPOSITE SIDES OF SUSHI BULKHEAD
NORI-2	SPORT GRAPHICS	SUSHI BAMBOO PANELS	5' x 10'	3MM PVC, PRINTED	SUSHI BULKHEAD
PACK-1	SPORT GRAPHICS	PACKAGED MEAT WALLCOVERING	SEE A2.4	VINYL WALLCOVERING	WALL ABOVE PACKAGED MEAT CASES
PATISSERIE-1	SPORT GRAPHICS	PATISSERIE	2'-0" H	2" GATORFOAM	PATISSERIE BULKHEAD
PHARM-1	SPORT GRAPHICS	PHARMACY	2'-6" H	2" GATORFOAM	PHARMACY BULKHEAD, ATTACHMENT VARIES
PHARM-1.2	SPORT GRAPHICS	PHARMACY	1'-7" H	2" GATORFOAM	PHARMACY BULKHEAD, ATTACHMENT VARIES
PHARM-1.3	SPORT GRAPHICS	PHARMACY	1'-9" H	2" GATORFOAM	PHARMACY BULKHEAD, ATTACHMENT VARIES
PHARM-1.4	SPORT GRAPHICS	PHARMACY	2' H	2" GATORFOAM	PHARMACY BULKHEAD, ATTACHMENT VARIES
PHARM-2	SPORT GRAPHICS	DIETITIAN, SMALL	12" H	1" GATORFOAM	WALL ABOVE DIETITIAN DOOR
PHARM-2.2	SPORT GRAPHICS	DIETITIAN, LARGE	1'-5" H	1" GATORFOAM	WALL ABOVE DIETITIAN DOOR
PHARM-3	SPORT GRAPHICS	CONSULTATION	4.5" H	VINYL	ABOVE CONSULTATION ROOM DOOR
PHARM-4	HY-VEE SIGN SHOP	REPEAT REFILLS, GROUP OF 3	24" x 19"		PHARMACY, LOCATION VARIES
PROD-1	TBD	PRODUCE BILLBOARD SIGN	7' X 36'-4"	TBD	ABOVE PRODUCE CASES
PROD-2	TBD	HOMEGROWN LOGO	5' X 11'-6"	HEAT APPLIED DECAL	WALL BETWEEN DELI AND PRODUCE
REST-1	SPORT GRAPHICS	RESTROOMS & MOTHER'S ROOM	2' X 6'	1/4" CLEAR P95 ACRYLIC	HANGING OVER ENTRANCE TO RESTROOM HALLWAY
REST-2	SPORT GRAPHICS	FLAG MOUNTED MEN/WOMEN SIGNS	6" x 6"	VISTA FLAG-MOUNTED SIGN HOLDER	WALL-MOUNTED ABOVE EACH RESTROOM DOOR
REST-3	SPORT GRAPHICS	RESTROOMS	9" H	VINYL LETTERS	APPLIED TO BULKHEAD ABOVE RESTROOM DOOR/HALLWAY
REST-4	SPORT GRAPHICS	RESTROOMS	9" H	FOAM LETTERS	APPLIED TO BULKHEAD ABOVE RESTROOM DOOR/HALLWAY
REST-4.2	SPORT GRAPHICS	RESTROOMS	5" H	FOAM LETTERS	APPLIED TO BULKHEAD ABOVE RESTROOM DOOR/HALLWAY
REST-5	SPORT GRAPHICS	RESTROOMS	8" X 60"	1/4" BLACK PVC	WALL MOUNTED VERTICAL RESTROOM SIGN
REST-5.2	SPORT GRAPHICS	RESTROOMS	12" X 66"	1/4" BLACK PVC	CEILING MOUNTED VERTICAL RESTROOM SIGN
REST-5.3	SPORT GRAPHICS	RESTROOMS	36" H	1/4" BLACK PVC	WALL MOUNTED VERTICAL RESTROOM SIGN - SMALL FORMAT
REST-6	SPORT GRAPHICS	RESTROOMS & MOTHER'S ROOM	9 1/4" X 2'-8"	FOAM LETTERS	HANGING OVER ENTRANCE TO RESTROOM HALLWAY
SALAD-1	SPORT GRAPHICS	FRESH SALADS	2' H	3MM SINTRA, PRINTED	SALAD BAR CEILING CLOUD FASCIA
SALAD-2	HY-VEE SIGN SHOP	SALAD BAR STORY & 3 PANELS		PRINTED VINYL ON BLACK PVC	WALL BEHIND SALAD BAR
SEA-1	SPORT GRAPHICS	SEAFOOD	1'-4" H	1" GATORFOAM	SEAFOOD BULKHEAD
SEA-2	HY-VEE SIGN SHOP	RESPONSIBLE CHOICE STORY	30" X 60"	PVC, PRINTED	WALL BEHIND SEAFOOD
SEA-3	HY-VEE SIGN SHOP	HEALTHY OCEANS BETTER SEAFOOD	30" X 40"	PVC, PRINTED	WALL BEHIND SEAFOOD
SEA-4	HY-VEE SIGN SHOP	SEAFOOD HELD TO A HIGHER STNDRD	30" X 40"	PVC, PRINTED	WALL BEHIND SEAFOOD
SEA-5	SPORT GRAPHICS	SEAFOOD	1'-10" H	1/2" PVC BACKER, AND A 1/2" PVC FACE TRIM	SEAFOOD BULKHEAD
SEA-6	SPORT GRAPHICS	COMMITTED TO RESPONSIBLE AND SUSTAINABLE SOURCING	4"H LETTERS	1/2" WHITE PVC	SEAFOOD BULKHEAD
SEA-7	ARCHITECTURAL SYSTEMS, INC.	WOOD PLANK PANEL SYSTEM DECOR ELEMENT	18"H X 48"L 8mm THICK	CUSTOM PANELIZED WOOD SLAT SYSTEM	APPLIED TO SEAFOOD BULKHEAD, CONTACT: ANDREW COOPER (646)460-8226
START-1	SPORT GRAPHICS	START HERE SIGNS	11" X 14.5"	6MM SINTRA, CEILING MOUNT STEM BY ZON	CEILING MOUNTED ABOVE FOOD SERVICE DEPARTMENTS
VEST-1	SPORT GRAPHICS	THANK YOU FOR SHOPPING HY-VEE	11" H		WALL ABOVE VESTIBULE DOOR ON SALES FLOOR SIDE
VEST-2	SPORT GRAPHICS	EMPLOYEE OWNED SINCE 1930		VINYL	VESTIBULE
VEST-3	SPORT GRAPHICS	AISLES ONLINE	3'-10" H	VINYL	LOCATION VARIES
VEST-4	HY-VEE SIGN SHOP	HISTORY WALL		PRINTED ON ACRYLIC PANELS	VESTIBULE
VIT-1	SPORT GRAPHICS	VITAMINS WALLCOVERING		VINYL WALLCOVERING	WALL AT VITAMINS/NUTRITION BEHIND CHEESE ISLAND
W&S-1	SPORT GRAPHICS	WINE & SPIRITS LOGO	11" H	1" GATORFOAM	ABOVE ENTRANCE TO WINE & SPIRITS
W&S-2	SPORT GRAPHICS	COLD BEER	2' 8" X 13' 2"	25MM PVC, PRINTED	ABOVE BEER COOLER DOORS, BELOW GOOSE NECK LIGHTS
W&S-2A	SPORT GRAPHICS	COLD BEER (SMALL)	2' 4" X 11' 4"	25MM PVC, PRINTED	ABOVE BEER COOLER DOORS, BELOW GOOSE NECK LIGHTS
W&S-2B	SPORT GRAPHICS	COLD BEER (LARGE)	4' X 19' 10"	25MM PVC, PRINTED	ABOVE BEER COOLER DOORS AT W&S W/ TRACK LIGHTS
W&S-3	-				
W&S-4	SPORT GRAPHICS	CRAFT BEER		1/2" ULTRABOARD	ABOVE CRAFT BEER CASES
W&S-5	-				
W&S-6	SPORT GRAPHICS	COLD BEER		1/2" ULTRABOARD	ABOVE BEER COOLER DOORS IN THE FOOD STORE (NOT W&S)
W&S-7	SPORT GRAPHICS	VE VERSION OF WINE & SPIRITS LOGO	SEE ELEV.	WHITE VINYL LETTING, SEMI GLOSS FINISH	WINE AND SPIRITS
W&S-8	SPORT GRAPHICS	SPIRITS SIGN (SUSPENDED)	6' X 20' 4"	1" GATORFOAM PANELS, FOAM HALO	ABOVE SPIRITS SECTION
W&S-8A	SPORT GRAPHICS	SPIRITS SIGN (SMALL, SUSPENDED)	4' X 16' 8"	1" GATORFOAM PANELS, FOAM HALO	ABOVE SPIRITS SECTION
W&S-9	SPORT GRAPHICS	THANK YOU SIGN	11" H		ON ACCENT WALL NEAR CHECK OUT, WALL PAINTED P-49
W&S-10	SPORT GRAPHICS	SPIRITS SIGN (WALL MOUNTED)	6' X 20' 4"	1" GATORFOAM PANELS, FOAM HALO	ABOVE SPIRITS SECTION
W&S-10A	SPORT GRAPHICS	SPIRITS SIGN (SMALL, WALL MOUNTED)	4' X 16' 8"	1" GATORFOAM PANELS, FOAM HALO	ABOVE SPIRITS SECTION
W&S-11	SPORT GRAPHICS	WINE BARRELS SIGN	7' 10" X 22' 8"	1" ULTRABOARD	ABOVE WINE SECTION, WALL MOUNTED
W&S-11A	SPORT GRAPHICS	WINE BARRELS SIGN (SMALL)	4' 6" X 12'	1" ULTRABOARD	ABOVE WINE SECTION, WALL MOUNTED
W&S-12	SPORT GRAPHICS	WINE & SPIRITS LOGO (CEILING MOUNTED)	2' 3" X 6' 6"	TBD	ABOVE ENTRANCE TO WINE & SPIRITS FROM FOOD STORE

FIBERGLASS REINFORCED PANELS & LAMINATE

KEY	TYPE	MANUFACTURER	COLOR	NOTES	LOCATION
FRP-1	FRP	CRANE COMPOSITES	GLASBORD #85 WHITE	EMBOSSED FINISH W/ SURFASEAL	GENERAL KITCHEN DEPTS (LESS VISIBLE WALLS)
FRP-4	FRP	CRANE COMPOSITES	VARIETEX #809 FAWN BROWN	LINEN FINISH	MARKET GRILLE SERVER STATIONS
FRP-6	FRP	CRANE COMPOSITES	VARIETEX #636 MORNING MIST GRAY	LINEN FINISH	FLORAL WORK ROOM

WINDOW SHADES/ WINDOW COVERINGS

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
WS-1	ROLLER SOLAR SHADES (MANUALLY OPERATED)	SWF CONTRACT DORAN DOTY: 515-240-3749	AS REQ'D	SWF CONTRACT - SHEERWEAVE 4000 MIST/TAUPE, 3% OPENNESS FACTOR	MOUNT SHADE ASSEMBLY WITHIN WIDTH OF WINDOW HEAD	MARKET CAFE/ MARKET GRILLE ACCESSIBLE WINDOW LOCATIONS
WS-2	ROLLER SOLAR SHADES (MOTORIZED)	SWF CONTRACT DORAN DOTY: 515-240-3749	AS REQ'D	SWF CONTRACT - SHEERWEAVE 4000 MIST/TAUPE, 5% OPENNESS FACTOR PROVIDE 3% OPENNESS FACTOR FABRIC AT MARKET GRILLE LOCATIONS	MOUNT SHADE ASSEMBLY WITHIN WIDTH OF WINDOW HEAD. SEE ELECTRICAL FOR POWER SUPPLY LOCATION.	CLERESTORY EXTERIOR WINDOW LOCATIONS, INCLUDING CASUAL DINING AREA WINDOWS
WS-3	HORIZONTAL LOUVER BLINDS	HEARTLAND WINDOW TREATMENTS GARRETT YOUNG: 515-244-8900	AS REQ'D	1" ALUMINUM BLINDS, 8 GAUGE - SILVER	MOUNT BLIND ASSEMBLY WITHIN WIDTH OF WINDOW/ SIDELIGHT FRAME @ HEAD OF OPENING	EXTERIOR WINDOWS IN OFFICES
WS-4	HORIZONTAL LOUVER BLINDS	HEARTLAND WINDOW TREATMENTS GARRETT YOUNG: 515-244-8900	AS REQ'D	1" ALUMINUM BLINDS, 8 GAUGE - SKYLINE	MOUNT BLIND ASSEMBLY WITHIN WIDTH OF WINDOW/ SIDELIGHT FRAME @ HEAD OF OPENING	INTERIOR WINDOWS IN OFFICES, CONSULT ROOM & PHARMACY

CEILINGS

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
C1	ACOUSTICAL TILE	ARMSTRONG USG	2' X 4' 2' X 4'	FINE FISSURED #1729 - WHITE RADAR CLIMAPLUS #2410 - WHITE	GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE	SALES FLOOR, GENERAL OFFICES, CORRIDORS
C2	VINYL FACED SHEETROCK	NOVA CEILINGS ALLIED CONSTRUCTION SERVICES JAMES HAUBENSAK: 515-729-2626	2' X 4'	SMART PEEL CEILING TILES - WHITE	NON-PERFORATED, VINYL LAMINATED GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE	FRESH FOOD DEPARTMENTS
C3	VINYL FACED SHEETROCK	NOVA CEILINGS	2' X 2'	SMART PEEL CEILING TILES - WHITE	NON-PERFORATED, VINYL LAMINATED GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE	DELI & CHEESE ISLAND
C4	ACOUSTICAL TILE	ARMSTRONG USG	2' X 2' 2' X 2'	DUNE #1774: WHITE OLYMPIA MICRO CLIMAPLUS #4221	GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE	PHARMACY
C5	GYPSUM BOARD	SEE SPEC			APPLY 3 COATS AS FOLLOWS: 1 COAT LATEX SEALER, 1 COAT ENAMEL UNDERCOAT, 1 COAT EPOXY ENAMEL AT RESTROOMS	
C6	EXPOSED STRUCTURE			EARTHTONES AND STREETSCAPES FOOD STORE: P-51 STEETSCAPES PLUS FOOD STORE: P-31		
C7	VINYL FACED SHEETROCK	NATIONAL GYPSUM USG	2' X 4' 2' X 4'	GRIDSTONE GYPSUM CEILING PANELS: WHITE SHEETROCK LAY-IN CLIMA PLUS: WHITE	GRID: G-30 PRELUDE, WITH HOLD DOWN CLIPS	VESTIBULES
C8	COOLER OR FREEZER					
C9	EXTERIOR GYPSUM BOARD	SEE SPEC		SHERWIN WILLIAMS: SW 7006 EXTRA WHITE (EGGSHELL FINISH U.N.O.)		EXTERIOR SOFFITS
C16	PLYWOOD SHEATHING			UNFINISHED - FIRE TREATED		MECHANICAL/ REFRIGERATION ROOMS W/ DECK ABOVE
C18	ACOUSTICAL TILE	ARMSTRONG USG	2' X 2' 2' X 2'	FINE FISSURED #1728CR - WHITE RADAR CLIMAPLUS #2210 - FLAT WHITE 050	GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE PERIMETER OF CEILING CLOUDS TO RECEIVE 6" FASCIA TRIM COLOR MATCH GRID & FASCIA TRIM TO TILE	CASUAL DINING & BAR CLOUDS
BEAM-1	FLORAL	SPORT GRAPHICS	3"X12'	FORMICA 8841 WHITE ASH	WOODBRUSH FINISH	FLORAL CEILING BEAMS (2019 REDESIGN)

VINYL WALL COVERING

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
VWC-0	VINYL WALL COVERING	TBD - CUSTOM		CUSTOM		CASUAL DINING CUSTOM
VWC-5	VINYL WALL COVERING	WOLF GORDON - CHRIS TORRES: 816-518-7807 TO BE ORDERED BY CONTRACTOR		GOH 11503667		CASUAL DINING LOWER WALL
VWC-6	VINYL WALL COVERING	SPORTS GRAPHICS		PACKAGED MEATS DESIGN		WALL ABOVE PACKAGED MEAT CASES
VWC-8	VINYL WALL COVERING	D.L. COUCH JESSICA FRENCH: 515-708-1710		YORK CONTRACT, STUDIO SOURCE CHEVY CHARM, BS4441		BAGEL & BAKERY SALES FLOOR WALLS
VWC-11	VINYL WALL COVERING	SPORT GRAPHICS		CHEESE DEPARTMENT HEADER		CHEESE CLOUD
VWC-14	VINYL WALL COVERING	WOLF GORDON - CHRIS TORRES: 816-518-7807 TO BE ORDERED BY CONTRACTOR		GOH 11579600	RUN GRAIN VERTICALLY	SUPERSEDED BY VWC-20 MARKET GRILLE EXPRESS BULKHEAD BEHIND SIGN
VWC-20	VINYL WALL COVERING	SPORT GRAPHICS		WOOD LOOK TO MATCH P.LAM-18	RUN GRAIN VERTICALLY	MARKET GRILLE EXPRESS BULKHEAD BEHIND SIGN
VWC-21	VINYL WALL COVERING	SPORT GRAPHICS		WOOD LOOK		CRAFT BEER WALL IN WINE & SPIRITS
VWC-22	VINYL WALL COVERING	SPORT GRAPHICS		BRICK PATTERN		COLD BEER WALL IN WINE & SPIRITS
VWC-23	VINYL WALL COVERING	SPORT GRAPHICS		WHITE BRICK PATTERN		DSW BACK WALL, NAIL BAR EXTERIOR NON FLAGSHIPS

MISCELLANEOUS

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
SS	STAINLESS STEEL					BELOW HOODS
CORK-1	TACKABLE SURFACE/BULLETIN BOARD	FORBO		2182 POTATO SKIN	SUPPLIED AND INSTALLED BY G.C.	OFFICES & PHARMACY PRIVACY/CONSULT PANELS
FABRIC-3	FABRIC	CARNEGIE		MAXWELL STREET, 6416,10	ORDERED & UPHOLSTERED BY KC BOOTH	MARKET GRILLE/CASUAL DINING BOOTH BACKS
FABRIC-4	VINYL	MOMENTUM TEXTILES		ENDURANCE EPU, JETTY	ORDERED & UPHOLSTERED BY KC BOOTH	MARKET GRILLE/CASUAL DINING BOOTH SEATS
FABRIC-5	VINYL	NASIMMI		VINTAGE LUGGAGE SVI-104	ORDERED & UPHOLSTERED BY KC BOOTH	FLAGSHIP- PUB BOOTHS BACKS AND SEATS
CG-1	CORNER GUARD	KOROGUARD	1" x 1"	STAINLESS STEEL		
GWT-1	GLASS WALL TOPPER - ALUM POSTS W/ FROSTED WHITE GLASS INSERT	C.R. LAURENCE CO. - DESIGN SERIES PARTITION POST SYSTEM	1 1/8" POSTS 1/4" GLASS	SATIN ANODIZED ALUMINUM POSTS FROSTED WHITE GLASS	SPACE SUPPORT POSTS AT 48" O.C. MAX. HEIGHT OF GLASS TOPPER SYSTEM IS 12"	MARKET CAFE, SERVER STATION WALLS AT LOCATIONS OF BEVERAGE SERVICE EQUIPMENT
BMP-1	BUMPER	McCUE		105 STEEL GRAY		BUMPERS ON ALL MILLWORK WHEN INDICATED
BMP-2	CART GUARD BUMPER	McCUE	2"	111 SILVER		BUMPERS ON FLORAL MILLWORK
RWP-1	RECLAIMED WOOD PLANK	WALL THEORY	3"W x 1/4"T x RANDOM	BROWN-ISH	CONTACT: MICHAEL OLSON WALL THEORY - 602-885-1520	FLORAL WALLS
GW-1	GREEN WALL	VISTAGREEN ARTIFICIAL GREEN WALLS	31.5" x 31.5"	CUSTOM MIX OF VISTAGREEN 'A', 'B', AND 'C' PANELS - CUSTOM CUT ON SITE TO FIT WALL DESIGN	CONTACT: ANDY DREYER GREEN ROOF SOLUTIONS - (847) 297-7936	FLORAL WALLS
HS-1	HARDSTOP DECORATIVE WALL PROTECTION PANELS	FORMICA		SPECTRUM RED - ARTISAN FINISH TRIM COLOR-100 CLEAR ANODIZED	CONTACT: JENI ROBB FORMICA - (612)212-6038	CUSTOMER SERVICE WALLS - 2020 REDESIGN
TB-1	THIN BRICK	MARION CERAMICS		710 SEASHELL SQUARE EDGE VEE BRICK ASH GROVE PRO WHITE #1 MORTAR	CONTACT: DAVE LAWSON (515) 202-0353	W NAIL BAR EXTERIOR ON FLAGSHIP STORES
TB-2	THIN BRICK	HEBRON BRICK COMPANY		LEOS PUB, TUMBLED THIN BRICK ASHGROVE HY-VEE GRAY MORTAR	CONTACT: DAVE LAWSON (515) 202-0353	PUB BRICK AT FLAGSHIP STORES
PARTITION-2	RESTROOM PARTITIONS	BOBRICK		SOLID COLOR REINFORCED COMPOSITE, SC04, FOREST GREEN		RESTROOMS WITH SIMPLY MODERN TILE SCHEME

WALL BASE

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
B1	VINYL BASE	JOHNSONITE	4"	#63 BURNT UMBER	SEE DRAWINGS FOR MILLWORK BASE HEIGHT	GENERAL WALL BASE
B2	VINYL BASE	JOHNSONITE	6"	#63 BURNT UMBER		DAIRY COOLER BASE
B3	GRANULAR QUARTZ EPOXY	TENNANT COMPANY			30/60 GRIT ALUMINUM OXIDE	KITCHEN & BAKERY FLOOR COATING
B4	GRANULAR QUARTZ EPOXY	TENNANT COMPANY		HY-VEE TACO RED: 4 RED, 2 TAN, 1/4 BUFF	30/60 GRIT ALUMINUM OXIDE	MEAT & SEAFOOD DEPARTMENT FLOOR COATING
B5	METAL SKIRT				SEE DETAILS	MEAT CASES
B6	WOOD BASE		2 X 10	WITH CHAMFERED EDGE	SEE DETAILS	BACK ROOM
B7	SOLID COLOR BROADCAST EPOXY	TENNANT COMPANY		1070 SILVER BLUE GREY	SEE DETAILS	PRODUCE PRE-PACK
B9	QUARRY TILE		6 x 6	MATCH EXISTING	NEW QT BASE AT EXISTING QT FLOOR LOCATIONS	
B11	RUBBER BASE	JOHNSONITE	4"/ 6"	COVE RUBBER BASE COLOR: IRONSTONE	4" BASE @ FLORAL CHECKOUT MILLWORK 6" BASE @ FLORAL MERCHANDISER IN CHECKOUT MILLWORK	FLORAL MILLWORK CUSTOMER SERVICE WALL & MILLWORK BASE

FLOOR FINISH

KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
F2	VINYL COMPOSITE TILE	ARMSTRONG RAYMOND WHEELER: 630-567-8834	12" X 12"	STANDARD EXCELON IMPERIAL TEXTURE #51908 PEWTER		DOLLAR FRESH SALES FLOOR OVERLAY
F5	EPOXY TERRAZZO			COLOR MIX TO MATCH EXISTING AGGREGATE	GROUND AND POLISHED CONCRETE	SALES FLOOR AT LOCTIONS WITH EXISTING TO REMAIN
F6	CONCRETE			PLAIN GRAY		SALES FLOOR, WINE & SPIRITS, FLORAL (2019)
F7	SEALED CONCRETE (U.N.O.)			EPOXY RESIN BINDER	TYPICAL TROWELED FINISH	
F8	SOLID COLOR EPOXY	TENNANT COMPANY		1070 SILVER BLUE GREY	APPLY OVER SMOOTH TROWELED CONCRETE	PRODUCE COOLER AND PRODUCE TRIM ROOM, FREEZER/COOLER FLOOR COATING (WHERE REQ'D)
F9	QUARTZ EPOXY	TENNANT COMPANY		TENNFLOOR QUARTZ, #9009180 OXFORD		KITCHEN & BAKERY, DELI/CHEESE FLOOR COATING
F10	QUARTZ EPOXY	TENNANT COMPANY		HY-VEE TACO RED: 4 RED, 2 TAN, 1/4 BUFF		MEAT & SEAFOOD DEPARTMENT FLOOR COATING
F11	CARPET	INTERFACE AMY SIMMONS: 515-414-6231	19.69" X 19.69"	PRODUCT: CT 101 W/ GLASBACK RE BACKING COLOR: WALNUT #103977		GENERAL OFFICES
F12	ENTRY MAT	PORTICO GREG GRIFFIN: 864-430-3997	19.69" X 19.69"	DIPLOMAT TILE - 'CARBON 9859'		VESTIBULE
F19	STAIR TREAD	ROPPE TYPE 92/ SQ. NOSE/ LOW PROF./ CIRCULAR		CHARCOAL #123	LOW PROFILE RAISED CIRCULAR DESIGN SQUARE NOSE	STAIRS TO MEZZANINE
F21	CARPET WITH CUSHION	INTERFACE AMY SIMMONS: 515-414-6231	19.69" X 19.69"	PRODUCT: CT 101 W/ CUSHIONBAC PLUS BACKING COLOR: WALNUT #103977		PHARMACY FLOORING
F23	QUARRY TILE			MATCH EXISTING		
F24	PORCELAIN TILE	American O'Lean 515-985-7590	12" X 24"	SIMPLY MODERN, COFFEE	PROVIDE SCHLUETER-RONDEC COVETRIM BETWEEN FLOOR TILE AND ADJACENT WALL TILE GROUT: TruColor BOSTIK FRENCH GRAY H142/STORM-DG06	RESTROOM FLOOR TILE (LAYOUT TO BE STACKED)
F26	SHEET VINYL	ARMSTRONG RAYMOND WHEELER: 630-567-8834		REJUVENATIONS, TIMBERLINE, WALNUT, 37378 SEPIA		CLINIC FLOORING WHEN SHEET GOODS ARE REQUIRED
F27	LVT	ARMSTRONG RAYMOND WHEELER: 630-567-8834	9" X 48"	NATURAL CREATIONS WITH DIAMOND 10 ARBOR ART, CITY MILL, NA145 STORM CLOUD		WINE & SPIRITS FLOORING, GREETING CARDS FLOORING SUPERSEDED BY F40
F30	LVT	PORTICO GREG GRIFFIN: 864-430-3997	18" X 36"	NOVAFLOR BIRKDALE HONED TRAVERTINE CLOUD - NBT001SAM	STACK TILE, SEE PLAN FOR TILE DIRECTION	BEAUTY/BASIN FLOORING
F31	LVT	RAYMOND WHEELER: 630-567-8834	12" X 24"	BRACO, PUTTY	STAGGERED PATTERN, SEE PLAN FOR TILE DIRECTION	DINING & BAR AREA/MARKET GRILLE REMODELS
F32	LVT	ARMSTRONG RAYMOND WHEELER: 630-567-8834	12" X 24"	BRACO, MORTAR	STAGGERED PATTERN, SEE PLAN FOR TILE DIRECTION	MAIN STORE SALES FLOOR FLOORING FLORAL DEPARTMENT, WITH LVT SALES FLOOR (2019)
F33	LVT	SHAW TRACIE LILLARD: 515-204-3935	18" X 36"	STRAND 0516V, CHALK 16515	STRIPED PATTERN, SEE PLAN FOR LAYOUT	CANDY AISLE
F34	LVT	SHAW TRACIE LILLARD: 515-204-3935	18" X 36"	STRAND 0516V, SILT 16595	STRIPED PATTERN, SEE PLAN FOR LAYOUT	CANDY AISLE
F35	LVT	ASPECTA	18" X 18"	WASHED CONCRETE - IRON, 5968111 FROM THE ASPECTA FIVE LINE		STARBUCKS FLOORING- SUPERSEDED SIZE
F35A	LVT	ASPECTA	24" X 24"	WASHED CONCRETE - IRON, 5968111 FROM THE ASPECTA FIVE LINE		STARBUCKS FLOORING
F36	LVT	ARMSTRONG RAYMOND WHEELER: 630-567-8834	9" X 48"	NATURAL CREATIONS WITH DIAMOND 10 ARBOR ART, CITY MILL, NA142 WIND STORM		PREFERRED CLINIC FLOORING WHEN NOT SPECIFIED BY PROVIDER
F37	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	36" X 36"	HOT & HEAVY 5MM, BOLDER PEBBLE 925	ADHESIVE: M99, INSTALL QUARTER TURNED 50% OFFSET	SALES FLOOR LVT
F37A	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	36" X 36"	HOT & HEAVY 2.5MM, BOLDER PEBBLE 925 (CUSTOM THICKNESS)	ADHESIVE: M99, INSTALL QUARTER TURNED 50% OFFSET	SALES FLOOR LVT, CUSTOM THICKNESS
F39	LVT	PARTERRE CHRIS EASLER: 617.800.5315	7.25" X 48"	INGRAINED WESTPORT OAK 11291	INSTALL FRONT TO BACK OF DEPARTMENT WITH 1/3 STAGGERED PATTERN	SALES FLOOR AT DSW/JOE FRESH 2020
F40	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	9" X 48"	MOHAWK ANTIEK C0015 IN 931 NIMBUS	INSTALL FRONT TO BACK WITH 1/3 STAGGERED PATTERN ADHESIVE: M99	WINE & SPIRITS, MOTHERS ROOMS, GREETING CARDS
F40A	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	8" X 60"	MOHAWK ANTIEK 988 CHARCOAL	INSTALL FRONT TO BACK WITH 1/3 STAGGERED PATTERN ADHESIVE: M99	ALTERNATE WHEN F40 IS UNAVAILABLE: WINE & SPIRITS, MOTHERS ROOMS, GREETING CARDS
F41	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	36" X 36"	HOT & HEAVY 5MM, SCHIST	ADHESIVE: M99, INSTALL QUARTER TURNED 50% OFFSET	DINING ACCENT TILE
F42	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	8" X 48"	BETTER TOGETHER 5 MM, BONAFIDE 766	INSTALL FRONT TO BACK WITH 1/3 STAGGERED PATTERN ADHESIVE: M99	SALE FLOOR AT DSW/JOE FRESH- TO BE USED WHEN F37 (5MM) PRODUCT IS SPECIFIED AT CENTER STORE
F43	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	36" X 36"	HOT & HEAVY 5 MM BOLDER, SCHIST 888	ADHESIVE: M99, INSTALL QUARTER TURNED 50% OFFSET	DINING ACCENT LVT- TO BE USED WHEN F37 (5MM) PRODUCT IS SPECIFIED AT CENTER STORE
F43A	LVT	MOHAWK CAITLIN SHEEDER: (515) 306-0819	36" X 36"	HOT & HEAVY 2.5 MM BOLDER, SCHIST 888 (CUSTOM THICKNESS)	ADHESIVE: M99, INSTALL QUARTER TURNED 50% OFFSET	DINING AND HEALTH MARKET ACCENT LVT- TO BE USED WHEN F37A (2.5MM) PRODUCT IS SPECIFIED AT CENTER STORE

FLOOR TRANSITIONS

KEY	FROM: FLOORING TYPE	TO: FLOORING TYPE	DELTA	FINISH	MANUFACTURER/ ITEM#	LOCATION
FT1	LVT (F27, F30, F31, F32)	FINISHED CONCRETE (F6)	-3MM/ 1/8"	BRUSHED NICKEL	SCHLUTER-VINPRO-U VPU 40 ATGB	SEE FLOORING TYPE ABOVE
FT2	LVT (F32)	QUARTZ EPOXY FLOOR (F9, F10)	</=3MM/ 1/8"	BRUSHED NICKEL	SCHLUTER-VINPRO-U VPS 40 ATGB	SEE FLOORING TYPE ABOVE
FT3	PORTICO DIPLOMAT CARPET TILE (F12)	FINISHED CONCRETE (F6), LVT (F32), EP. TERRAZZO (F5)	-0.5"	ANODIZED ALUMINUM	REESE SADDLE THRESHOLD S814ddedit	SEE FLOORING TYPE ABOVE
FT4	EPOXY TERRAZZO (F5)	FINISHED CONCRETE (F6)	SAME			SEE FLOORING TYPE ABOVE
FT5	EPOXY TERRAZZO (F5)	LVT (F27, F30, F31, F32)	</=3MM/ 1/8"	BRUSHED NICKEL	SCHLUTER-VINPRO-U VPU 40 ATGB	SEE FLOORING TYPE ABOVE
FT6	PORCELAIN TILE (F24)	LVT (F32)	8MM TO 3MM/ 1/8"	SATIN NICKEL	SCHLUTER-RENO-U AU 80 ATGB	SEE FLOORING TYPE ABOVE
FT7	CARPET (F11)	LVT (F32)	</= 1/8" 3/16" - 1/4"	BRUSHED NICKEL SATIN ANODIZED ALUMINUM	SCHLUTER-VINPRO-S VPS 40 ATGB FUTURA LVT 115 OR FUTURA LVT 160	SEE FLOORING TYPE ABOVE
FT8	CARPET (F21)	LVT (F32)	</= 1/8" 3/16" - 1/4"	BRUSHED NICKEL SATIN ANODIZED ALUMINUM	SCHLUTER-VINPRO-S VPS 40 ATGB FUTURA LVT 115 OR FUTURA LVT 160	SEE FLOORING TYPE ABOVE
FT9	CARPET (F11)	FINISHED CONCRETE (F6)	</= 1/8" 3/16" - 1/4"	BRUSHED NICKEL SATIN ANODIZED ALUMINUM	SCHLUTER-VINPRO-S VPS 40 ATGB FUTURA LVT 115 OR FUTURA LVT 160	SEE FLOORING TYPE ABOVE
FT10	CARPET (F21)	FINISHED CONCRETE (F6)	</= 1/8" 3/16" - 1/4"	BRUSHED NICKEL SATIN ANODIZED ALUMINUM	SCHLUTER-VINPRO-S VPS 40 ATGB FUTURA LVT 115 OR FUTURA LVT 160	SEE FLOORING TYPE ABOVE
FT11	QUARRY TILE (F23)	FINISHED CONCRETE (F6)	12.5MM TO ZERO	SATIN ANODIZED ALUMINUM	SCHLUTER-RENO - RAMP AERP 125 B65	SEE FLOORING TYPE ABOVE
FT12	QUARRY TILE (F23)	LVT (F32)	12.5MM TO 3 MM	SATIN ANODIZED ALUMINUM	SCHLUTER-RENO U AEU 125	SEE FLOORING TYPE ABOVE
FT13	NOT USED	NOT USED	XXXX			SEE FLOORING TYPE ABOVE
FT14	NOT USED	NOT USED	XXXX			SEE FLOORING TYPE ABOVE
FT15	LVT (F27, F33, F34)	FINISHED CONCRETE (F6)	1/8" TO FLOOR	BURNT UMBER	TARKETT REDUCER RRS-XX-C	TRANSITION FOR GREETING CARDS AND CANDY
FT16	TERRAZZO OR CONCRETE	LVT (F37) OR QUARRY TILE		SOLID ALUMINUM	REESE S480	TRANSITION BW TERRAZZO OR CONCRETE AND F37 LVT
FT17	LVT (F30)	EP. TERRAZZO (F5)	3 MM	SOLID ALUMINUM	FUTURA 113	SEE FLOORING TYPE ABOVE
FT18	LVT (F37)	LVT (F33, F34, F35A, F40)	2.5 - 3 MM	N/A	ROPPE SUBFLOOR LEVELER	SEE FLOORING TYPE ABOVE

WALL CAPS & OTHER SOLID SURFACE

KEY	TYPE	MANUFACTURER	COLOR	NOTES	LOCATION
WC-6	SOLID SURFACE	STARON	CHESTNUT SC 457		KITCHEN FRONT LINE WALL CAPS
WC-9	SOLID MAPLE		SHERWIN WILLIAMS 3135-P NEW EBONY STAIN WITH CLEAR COAT	SUPPLIED AND INSTALLED BY G.C.	BAR & CASUAL DINING AREA
SSM-7	SOLID SURFACE	VARIES PER JOB	VARIES PER JOB		CLINIC SOLID SURFACE
SSM-8	NATURAL QUARTZ	CORIAN	MYSTIC BLACK		SUSHI ISLAND TOP, TASTE ISLAND TOP, CASUAL DINING BAR TOP, WALL CAPS @ BAR
SSM-11	SOLID SURFACE	FORMICA SIGNATURES	WHITE RENEW 748		FLORAL CHECK REGISTER MILLWORK & BACK WORK COUNTER, FLORAL/SEASONAL RETAIL FIXTURES, FOOD HALL HIGH TOP COUNTERS
SSM-12	SOLID SURFACE	CORIAN	WHITE FROST		SINK BOWL MODEL 816P IN RESTROOMS & MOTHERS ROOM
SSM-13	SOLID SURFACE	WILSONART	GOLD GLITZ 9108CS (5)		SS TOP ON SHELF IN PREMIUM CANDY DISPLAYS
SSM-14	SOLID SURFACE	CORIAN	GLACIER WHITE		BASIN MILLWORK TOP
SSM-15	SOLID SURFACE	STARON	AL645 ASPEN LILY		WINDOWSILLS
SSM-16	SOLID SURFACE	FORMICA	LUNA WEATHER 782		SALAD & HOT BAR. MOTHERS ROOM COUNTER TOP
SSM-17	SOLID SURFACE	FORMICA	LUNA STONE 780		RESTROOM COUNTER TOPS
SSM-18	SOLID SURFACE	FORMICA	BRIGHT WHITE 109		JOE FRESH/ DSW CASHWRAP & BACK COUNTER
SSM-19	NATURAL QUARTZ	CORIAN	PORTORO		FLAGSHIP STORES BAKERY SLAB CASE AND DECORATOR COUNTERTOP
SSM-20	SOLID SURFACE	FORMICA	BLACK LAVA		FLAGSHIP STORES FOOD HALL COUNTERTOPS
SSM-21	NATURAL QUARTZ	CAMBRIA	BLACKPOOL MATTE		FLAGSHIP STORES BAR COUNTERTOP
SSM-22	SOLID SURFACE	ARISTECH SURFACES	GRENADINE 8810		FLAGSHIP STORES CASUAL DINING PRIVACY PANEL (ASIAN)

PLASTIC LAMINATE

KEY	MANUFACTURER	COLOR	NOTES	LOCATION
P.LAM-12	FORMICA	RATTAN CANE #3699-58	GRAIN TO RUN VERTICALLY	SALAD BAR
P.LAM-13	FORMICA	NATURAL CANE #6930-NT	NATURELLE FINISH, GRAIN TO RUN HORIZONTALLY	CUSTOMER SERVICE MILLWORK FACE, NORI SUSHHI
P.LAM-14	NEVAMAR	FOUNDRY S2084T	TEXTURED FINISH, T-EDGE TO MATCH WILSONART SHADOW	COUNTERTOPS AT: CUST SERV, BAKERY, PHARMACY, CASUAL DINING, OFFICES, CONCIERGE DESK, PAY STATION
P.LAM-15	WILSONART	HIGH LINE #7970K-18	LINEARITY FINISH W/AEON, GRAIN TO RUN VERTICALLY	BAKERY MILLWORK
P.LAM-16	FORMICA	EBONY #9012-NT	NATURELLE FINISH, GRAIN TO RUN VERTICALLY	HICKORY HOUSE & BAGEL MILLWORK & CASES, KITCHEN BACK OF HOUSE CABINETS
P.LAM-18	NEVAMAR	DRY CREEK PLUM TREE WZ6001T	TEXTURED FINISH (ARMORED PROTECTION) GRAIN TO RUN VERTICALLY	CHEESE CLOUD MARKET GRILLE EXPRESS PAY STATION MILLWORK KITCHEN BACK ROOM MILLWORK NOT VISIBLE TO SALES FLOOR
P.LAM-20	NEVAMAR	RED DRAGON BAMBOO WZ1001T	TEXTURED FINISH (ARMORED PROTECTION)	ASIAN CASE FRONTS - DOES NOT APPLY TO SUSHI, SUSHI TO BE STAINLESS STEEL
P.LAM-21	FORMICA	ENVISON CUSTOM HEX PATTERN	CONTACT SARA ERVIN AT HOLDAHL COMPANY 515-865-0646	BAR FRONTS
P.LAM-23	FORMICA	PECAN WOODLINE #5883-58	MATTE FINISH, GRAIN TO RUN VERTICALLY	MOTHERS ROOM MILLWORK, FOOD SERVICE PASS THRU FACES
P.LAM-26	WILSONART	D91-60 SLATE GREY	MATTE FINISH	KITCHEN CABINETS VISIBLE TO SALES FLOOR
P.LAM-28	FORMICA	DECO METAL, GRAPHITE VEIL M8391		OUTSIDE WALLS OF SUSHI ISLAND
P.LAM-31	FORMICA	BLACK 909-58		HIBACHI MILLWORK BEHIND TILE WALL/EMPLOYEE SIDE, INSIDE WALLS OF SUSHI
P.LAM-32	PIONITE	SABLE, AG021	SUEDE FINISH	HIBACHI MILLWORK VISIBLE TO SALES FLOOR
P.LAM-33	WILSONART	8206K-16 SADDLE OAK	CASUAL RUSTIC FINISH	CASUAL DINING BEVERAGE BAR, BOOTH & ELIASON DOORS
P.LAM-34	FORMICA	8843-WR NATURAL ASH	WOODBRUSH FINISH, RUN GRAIN VERTICALLY	HEARING CLINIC DISPLAY CASE/CABINET FACE
P.LAM-36	WILSONART	CARTER OAK, 17004K-57	ALIGNED TEXTURED/AEON & ANTIMICROBIAL RUN GRAIN VERTICALLY	FAST & FRESH MILLWORK & CHECK LANES BEGINNING IN 3.19. STAIN TO MATCH THIS LAMINATE @ F&F BAKERY TABLES & PRODUCE BINS AT HM & F&F.
P.LAM-38	FORMICA	8910-NG RAW BIRCHPLY	NATURAL GRAIN	FLORAL & LATEX/HELIUM MILLWORK, WORKTABLES, BALLOON RETAIL FIXTURE
P.LAM-39	WILSONART	4886-38 PEARL SOAPSTONE	FINE VELVET FINISH	FLORAL SECONDARY CABINETRY MILLWORK MATERIAL, TOP FOR LATEX CABINET
P.LAM-40	PIONITE	CHOCOLATE MALT WC210-H		BASIN MILLWORK
P.LAM-41	WILSONART	FLORENCE WALNUT 7993-3		BASIN MILLWORK
P.LAM-42	FORMICA	949-AN WHITE	INFINITY FINISH	CUSTOMER SERVICE MILLWORK LAMINATE - 2020 REDESIGN
P.LAM-43	FORMICA	9312-NG PLANKED URBAN OAK	NATURAL GRAIN	CUSTOMER SERVICE MILLWORK LAMINATE (CENTER PORTION) - 2020 REDESIGN MIA PIZZA SHELVES - FLAGSHIP
P.LAM-44	FORMICA	961 FOG	MATTE FINISH	JOE FRESH/DSW MILLWORK AND WALL PANEL & CUSTOMER SERVICE COUNTERTOPS
P.LAM-45	FORMICA	7481-58 NATURAL BIRCH	MATTE FINISH	FOOD HALL DIVIDER WALLS AND CEILINGS AT FLAGSHIP STORES
P.LAM-46	WILSONART	WALNUT HEIGHTS, 7965K-12	SOFT GRAIN FINISH	FLAGSHIP PUB BOOTH WALLS AND DIVIDERS

NOTE: ALL CABINET INTERIORS TO BE WHITE MELAMINE U.N.O.

PAINT

KEY	MANUFACTURER	COLOR	NOTES	LOCATION
P-1	SHERWIN WILLIAMS	SW 7006 EXTRA WHITE	EGGSHELL FINISH	GYP BOARD CEILINGS (GENERAL), FLORAL WALLS
P-2	SHERWIN WILLIAMS	SW 6148 WOOL SKEIN	EGGSHELL FINISH	EARTH TONES WALL COLOR
P-9	SHERWIN WILLIAMS	SW 7020 BLACK FOX	GLOSS FINISH	INTERIOR DOORS & FRAMES
P-10	SHERWIN WILLIAMS	SW 7048 URBANE BRONZE	EGGSHELL FINISH	MARKET GRILLE & MARKET CAFE EXPOSED STRUCTURE
P-13	SHERWIN WILLIAMS	SW 7011 NATURAL CHOICE	EGGSHELL FINISH	EARTH TONES VESTIBULE & OFFICES
P-16	SHERWIN WILLIAMS	SW 2822 DOWNING SAND	EGGSHELL FINISH	EARTH TONES CASUAL DINING & EXPOSED STRUCTURE FLAGSHIP - UNDER MIA PIZZA BULKHEAD
P-20	SHERWIN WILLIAMS	SW 9170 ACIER	EGGSHELL FINISH	FLAGSHIP STORES PUB VESTIBULE STORE FACING WALLS
P-23	SHERWIN WILLIAMS	SW 7059 UNUSUAL GRAY	EGGSHELL FINISH	MARKET CAFE&GRILLE ENTRY WALL @ SALES FLOOR SIDE
P-24	SHERWIN WILLIAMS	SW 7044 AMAZING GRAY	SEMI GLOSS WATER BASED EPOXY	RESTROOM WALLS
P-29	SHERWIN WILLIAMS	SW 6607 RED TOMATO	GLOSS FINISH	ASIAN BULKHEAD
P-31	SHERWIN WILLIAMS	SW 0077 CLASSIC FRENCH GRAY	EGGSHELL FINISH	BAKERY BULKHEAD, WINE & SPIRITS STRUCTURE, STREETSCAPES PLUS FOOD STORE EXPOSED STRUCTURE, CASUAL DINING & BAR CEILING CLOUDS, PHARMACY BULKHEAD BEHIND LETTERING
P-32	SHERWIN WILLIAMS	SW 6450 EASY GREEN	EGGSHELL FINISH	DECADENT DELIGHTS CLOUD/BULKHEAD (STREETSCAPES DECOR)
P-33	SHERWIN WILLIAMS	SW 6767 AQUARIUM	EGGSHELL FINISH	SEAFOOD BULKHEAD
P-34	SHERWIN WILLIAMS	SW 6487 CLOUDBURST	EGGSHELL FINISH	FROZEN WALL
P-35	SHERWIN WILLIAMS	SW 6684 BRITTLEBUSH	EGGSHELL FINISH	DELI/CHEESE ISLAND CLOUD
P-36	SHERWIN WILLIAMS	SW 7065 ARGOS	EGGSHELL FINISH	UNDERSIDE OF HICKORY HOUSE, CASUAL DINING WALLS, FLORAL ACOUSTICAL CEILING PAINT WHEN BELOW MEZZANINE
P-37	SHERWIN WILLIAMS	SW 6100 PRACTICAL BEIGE	EGGSHELL FINISH	GYP. BOARD PORTION ON UNDERSIDE OF ITALIAN CLOUD
P-38	SHERWIN WILLIAMS	SW 7643 PUSSYWILLOW	EGGSHELL FINISH	WALL COLOR AT WINE & SPIRITS STORES
P-43	SHERWIN WILLIAMS	SW 6006 BLACK BEAN	EGGSHELL FINISH	CHOPHOUSE MEATS BULKHEAD
P-44	SHERWIN WILLIAMS	SW 6508 SECURE BLUE	EGGSHELL FINISH	CLINIC
P-45	SHERWIN WILLIAMS	SW 6711 PARAKEET	EGGSHELL FINISH	MAIN BULKHEAD BUMP OUT UNDER PHARMACY LETTERING
P-46	SHERWIN WILLIAMS	SW 6993 BLACK OF NIGHT	EGGSHELL FINISH	MIA PIZZA UNDERSIDE & BACK OF HIBACHI CLOUD WHERE CHEMETAL ISN'T LOCATED
P-47	SHERWIN WILLIAMS	SW 7076 CYBERSPACE	EGGSHELL FINISH	LONG ISLAND DELI BULKHEAD
P-48	SHERWIN WILLIAMS	SW 7056 RESERVED WHITE	EGGSHELL FINISH	H.M. PHARMACY BULKHEAD BORDER & DEPT WALLS, F&F GENERAL WALL COLOR
P-49	SHERWIN WILLIAMS	SW 7069 IRON ORE	EGGSHELL FINISH	WINE & SPIRITS LOGO BULKHEAD
P-51	SHERWIN WILLIAMS	SW 7016 MINDFUL GRAY	EGGSHELL FINISH	SALES FLOOR WALLS, COLUMNS, EARTH TONES AND STREETSCAPES FOOD STORE EXPOSED STRUCTURE,CLINIC PHARMACY FACE WALL BELOW BULKHEAD, CUSTOMER SERVICE WALLS
P-52	SHERWIN WILLIAMS	SW 6242 BRACING BLUE	EGGSHELL FINISH	HEARING CENTER BULKHEAD
P-53	SHERWIN WILLIAMS	SW 9165 GOSSAMER VEIL	EGGSHELL FINISH	VESTIBULE INSIDE & STORE-SIDE WALLS, OFFICE &HALLWAYS, CLINIC WALLS, PHARMACY INTERIOR WALL COLOR, BREAK ROOM WALLS
P-54	SHERWIN WILLIAMS	SW 6183 CONSERVATIVE GRAY	EGGSHELL FINISH	DOLLAR FRESH FIELD COLOR
P-55	SHERWIN WILLIAMS	SW 7593 RUSTIC RED		EXTERIOR DOOR COLOR FOR STORES WITH RED BRICK EXTERIOR
P-56	SCUFF MASTER	VRL005	VAPOR/VAPOR LUXE	FLAGSHIP- MIA PIZZA BULKHEAD
P-57	SHERWIN WILLIAMS	SW 7663 MONORAIL SILVER	EGGSHELL FINISH	DSW ACCENT COLOR
P-58	SHERWIN WILLIAMS	JOE FRESH ORANGE (under national acct.)	EGGSHELL FINISH	JOE FRESH WALL COLOR
P-59	SHERWIN WILLIAMS	SW 7697 SAFARI	EGGSHELL FINISH	ASIAN STEEL ARMATURE COLOR AT FLAGSHIP LOCATIONS
P-60	SHERWIN WILLIAMS	CUSTOM MATCH FOR PPG BLACK FLAME	EGGSHELL FINISH	PATISSERIE AND ARTISAN BREAD BULKHEAD COLOR -2021 DESIGN

6

WALL TILE

KEY	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
T-1	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	12" X 12"	VOLUME 1.0 INTENSITY PEBBLE VL72	GROUT: HYDROMENT FRENCH GRAY H142	MARKET GRILLE KITCHEN GENERAL WALL TILE
T-2	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	8" X 24"	COLOR WHEEL 0761 MATTE URBAN PUTTY	GROUT: HYDROMENT MOBE PEARL H145	MEAT & SEAFOOD GENERAL WALL TILE
T-4	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	6" X 36"	SADDLEBROOK SD13 COLOR: OAKTRAIL	GROUT: BOSTIK CLAY H197	MIA PIZZA LOW WALL
T-5	VIRGINIA TILE NANCY PEARSON: 515-244-1200	4" X 8"	CROSSVILLE, COLOR BY NUMBERS COLOR: CARBON 14, GLOSS	GROUT: BOSTIK FRENCH GRAY H142	PIZZA OVEN AT FAST & FRESH STORES
T-6	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	3" X 6"	COLOR WAVE CW32 COLOR: CAPRI BREZE	GROUT: BOSTIK WHITE SANDED GROUT H152	SEAFOOD ACCENT WALL TILE
T-7	VIRGINIA TILE NANCY PEARSON: 515-224-1200	6" X 6"	MOSA COLORS 20980 CHILI	GROUT: BOSTIK WHITE SANDED GROUT H152	MEAT ACCENT WALL TILE
T-8	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	12" X 24"	MULTITUDE WHITE HEXAGON	GROUT: HYDROMENT MOBE PEARL H145 GROUT JOINT TO BE 1/16"	DECADENT DELIGHTS/CAKE WALL
T-9	SUNDERLAND BROTHERS CO. 515-276-3600	6" X 24"	PIETRA ART SLATE COLOR: NS300/L6x24 ASH	SEAL STONE WITH AQUA MIX SEALER'S CHOICE GOLD (APPLY PER MANUFACTURER'S RECOMMENDATIONS)	WINE ROOM WALLS
T-17	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	6" X 12"	COLOR MATCH ON TALC BODY QH96 ROMA RED	INSTALL IN STACK BOND COURSING GROUT: HYDROMENT MOBE PEARL H145	ASIAN GENERAL WALL TILE
T-18	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	6" X 24"	TIMBER GLEN CONTEMPORARY P623 COCOA	INSTALL IN STAGGERED COURSING GROUT: BOSTIK CLAY H197	MIA PIZZA OVEN SURROUND
T-19	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	6" X 24"	TIMBER GLEN CONTEMPORARY P625 THATCH	GROUT: HYDROMENT MOBE PEARL H145	BAKERY OVEN WALLS
T-21	AMERICAN OLEAN 515-985-7590	12" X 24"	STONEPEAK, SIMPLY MODERN COLOR: TAN	GROUT: TruColor BY BOSTIK MISTY GRAY H144/OCEAN GRAY D-G05	RESTROOM WALL TILE
T-22	AMERICAN OLEAN 515-985-7590	12" X 12"	STONEPEAK, SIMPLY MODERN COLOR: TAN	GROUT: TruColor BY BOSTIK MISTY GRAY H144/OCEAN GRAY D-G05	RESTROOM WALL BASE TILE & DRINKING FOUNTAIN WALL
T-23	SUNDERLAND BROTHERS CO. 515-276-3600	12" X 12"	PIETRA ART BLISS COLOR: FOSSIL ROCK NS385 RSP5/8	GROUT: TruColor BY BOSTIK MISTY GRAY H144/OCEAN GRAY D-G05	RESTROOM WALL ACCENT TILE
T-25	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	4" X 12"	LUNGARNO URBAN TEXTURES COLOR: WHITE MATTE	GROUT: BOSTIK FRENCH GRAY H142 COURSING: STACKED AT BAKERY STAGGERED AT OTHER DEPARTMENTS	DISCONTINUED OCTOBER 2020. SUPERSEDED BY T-25A
T-25A	DALTILE NATIONAL ACCOUNT SUPPORT: 877-556-5728	4" X 12"	COLORWHEEL LINEAR COLOR: 0790 ARCTIC WHITE MATTE	GROUT: BOSTIK FRENCH GRAY H142 COURSING: STACKED AT BAKERY STAGGERED AT OTHER DEPARTMENTS	DELI/CHEESE GENERAL WALL TILE, BAKERY & SALADS WALL TILE, BEV BAR BACK WALL, AGED BEEF CASE WALLS
T-26	MARAZZI USA NATIONAL ACCOUNT SUPPORT: 877-556-5728	4" X 12"	SISTEM C CITTA COLOR: OCRA FINISH: MATTE	GROUT @DELI/CHEESE: BOSTIK FRENCH GRAY H142 GROUT @COCINA MEXICANA LOW WALL TILE: H152	DELI/CHEESE ACCENT WALL TILE
T-30	SUNDERLAND BROTHERS CO. 515-276-3600	16" X 32"	FLORIM, ELEMENTS COLOR: GUNMETAL FINISH: SEMI POLISHED	GROUT: BOSTIK CHAR BLACK H139 1/8" THICK GROUT LINE	DELI/CHEESE/CHARCUTERIE BLACK ACCENT WALL TILE DISCONTINUED 12/2020 REPLACED BY T-30A
T-30A	SUNDERLAND BROTHERS CO. 515-276-3600	12" x 24"	FLORIM, ELEMENTS COLOR: GUNMETAL FINISH: SEMI POLISHED	GROUT: BOSTIK CHAR BLACK H139 1/8" THICK GROUT LINE	DELI/CHEESE/CHARCUTERIE BLACK ACCENT WALL TILE
T-31	MIDWEST TILE MARBLE & GRANITE 515-334-0139	6" X 36"	EMIL CERAMICA, STONEBOX COLOR: BLACK INK	GROUT: BOSTIK CHAR BLACK H139	LOW WALL AT HIBACHI
T-32	SUNDERLAND BROTHERS CO. 515-276-3600	18" X 36"	IRIS CERAMICA, BLOCKS 5.0 COLOR: DARK FINISH: HONED	GROUT: BOSTIK CHAR BLACK H139	BACK BAR WALL AT CASUAL DINING BAR
T-34	CERAMIC TECHNICS, LTD. MARY CLAIRE SOWERS: 847-732-6365	3" X 12"	MALAGA OXIDIZED SUBWAY COLOR: IRON	GROUT: BOSTIK SILVER BULLET H168	FLORAL WALLS
T-35	MY-MOSAIC ANDREA RUSSELL: 773-255-7983	10" X 10"	MEDIUM SQUARE MOSAIC - 022_SQ_M COLOR: CUSTOM IMAGE	GROUT: TBD	MIA PIZZA BULKHEAD
T-36	VIRGINIA TILE NANCY PEARSON: 515-224-1200	4" X 5"	ZELLIGE HEXA COLOR: GRAPHITE	GROUT: TBD	NORI ACCENT WALLS
T-37	MY-MOSAIC ANDREA RUSSELL: 773-255-7983	10" X 10"	LARGE SQUARE MOSAIC - 003_SQ FINISH: GLOSSY COLOR: MATCH SW 7006 EXTRA WHITE	GROUT: TBD	MARKET GRILLE BULKHEAD, EXTERIOR
T-38	MY-MOSAIC ANDREA RUSSELL: 773-255-7983	10" X 10"	SQUARE MOSAIC - 001_SQ FINISH: GLOSSY COLOR: MATCH SW 6508 SECURE BLUE	GROUT: TBD	MARKET GRILLE BULKHEAD, INTERIOR CAVITY
T-39	VIRGINIA TILE NANCY PEARSON: 515-224-1200	5" X 5"	WOW USA: ENSO WABI COLOR: IVORY	GROUT: TBD	FLAGSHIP PUB BAR TILE
T-40	VIRGINIA TILE NANCY PEARSON: 515-224-1200	5" X 5"	WOW USA: ENSO NAKAMA COLOR: IVORY	GROUT: TBD	FLAGSHIP PUB BAR TILE, FLAGSHIP WINE ROOM TILE
T-41	VIRGINIA TILE NANCY PEARSON: 515-224-1200	6" x 10"	WOW USA: FLOW DIAMOND COLOR: BLUE	INSTALL PATTERN: DIAMOND VERTICAL STACK BOND GROUT: BOSTIK STEEL H200	TENTATIVE FLAGSHIP SEAFOOD ACCENT TILE TESTING AT MAPLEWOOD, MN

REVISION		DATE BY
2	ASI #2	01/08/21
3	ASI #3	01/26/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City, Bentonville, Phoenix, San Francisco, Philadelphia, Atlanta, Austin, Miami, Los Angeles, Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

04/21/21

LOCATION
LEE'S SUMMIT, MO #2

HyVee® EMPLOYEE OWNED

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

NORTH

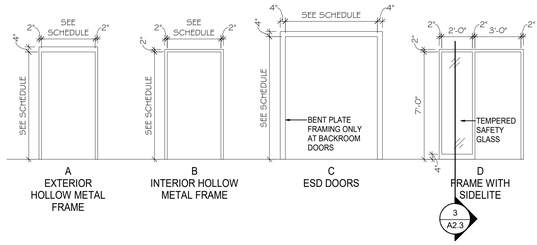
FINISH SCHEDULE

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY: AP	DATE: 3/19/2021
SCALE:	JOB NUMBER: 62930547

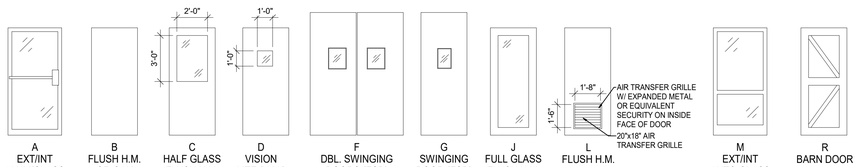
SHEET:
A2.2

2 3

4/14/2021 1:46:20 PM



FRAME ELEVATIONS



DOOR ELEVATIONS

DOOR AND FRAME ELEVATIONS

SCALE: 1/4" = 1'-0"

DOOR & FRAME GENERAL NOTES:

A. ALL WALL STOP DOOR BUMPERS TO BE IVES. PROVIDE WOOD BACKING @ WALL STOPS.

B. ALL WOOD DOORS SHALL NOT HAVE ANY UREA FORMALDEHYDE.

C. PROVIDE CONSTRUCTION CORES AT ALL LOCK CYLINDERS. PERMANENT CORES SHALL BE INSTALLED AT COMPLETION OF PROJECT.

D. FURNISH ONE (1) WALL KEY CABINET AS MANUFACTURED BY LUND DELUXE #1200 WITH CAPACITY FOR 30 KEYS. INSTALLATION TO BE COORDINATED BY SET-UP SUPERVISOR.

E. SAFETY GLAZING SHALL BE PROVIDED IN ACCORDANCE WITH 2009 IBC SECTION 2406.

F. DOOR HARDWARE SHALL BE CAPABLE OF OPERATION WITH THE USE OF ONE (1) HAND AND SHALL NOT REQUIRE TIGHT PINCHING, TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE. THUMB-TURN DEADBOLTS ARE PROHIBITED. LEVER OR PADDLE DEADBOLT RELEASES ARE ACCEPTABLE. DOOR THRESHOLD SHALL NOT EXCEED ONE-HALF INCH (1/2") IN HEIGHT, THRESHOLDS EXCEEDING ONE QUARTER INCH (1/4") IN HEIGHT SHALL HAVE A 1:2 BEVEL. DOOR CLOSERS SHALL MEET OPENING FORCE AND SWEEP PERIOD REQUIREMENTS.

G. EXTERIOR HM FRAMES - SEE DETAIL 1/A2.3 FOR MORTAR BOX REQUIREMENT.

H. PAINT ALL INTERIOR HM DOORS AND FRAMES P-9 (SHERWIN WILLIAMS SW 7020 BLACK FOX SEMI-GLOSS)

I. EXTERIOR DOOR AND FRAME COLOR TO MATCH ADJACENT EXTERIOR MATERIALS.

DOOR & FRAME SCHEDULE NOTES:

1. PROVIDE 4"x1/4"x24" STEEL PLATE ON INSIDE FACE OF FRAME TOP AND BOTTOM OF HINGE SIDE WELD TO FRAME, TAP FOR DOOR HINGE SCREWS AT ELIASON DOORS.
2. UNDERCUT DOOR 1".
3. DOOR TO HAVE AIR TIGHT GASKET SEAL AND AIR TIGHT SWEEP AT BOTTOM.
4. PROVIDE ONE-WAY MIRROR GLASS @ LITE.
5. PROVIDE CUSTOM WOOD STAIN COLOR TO MATCH FORMICA '5488-NT SMOKY BROWN'.
6. HOLLOW METAL FRAMES AT SIDES ONLY.
7. REMOVE ALL EXIT SIGNAGE FROM DOOR INCLUDING EMERGENCY EXIT SIGN ABOVE DOOR (IF IT EXISTS) AND INSTALL A HEAVY DUTY PADLOCK AND HASP. DOOR WILL NO LONGER BE USED AS PART OF THE EMERGENCY EGRESS SYSTEM.
8. PROVIDED BY HUMIDOR MANUFACTURER.

DOOR TYPE:

STA4. ALUMINUM TUBE/GLASS ENTRY DOOR (CLEAR ANODIZED ALUMINUM). STANLEY DURA-GLIDE 3000 SLIDER

HM1. EXTERIOR H.M. VERSA 16 GA.

HM2. INTERIOR H.M. OMEGA 18 GA.

WD. WOOD DOOR SOLID CORE PLAIN SLICED RED OAK

SG1. SLIDING GRILLE AT PHARMACY MODEL S-126 BY DYNAMIC CLOSURES.

SG2. SLIDING GRILLE AT WINE & SPIRITS EZ GRILLE BI-PARTING, BY DYNAMIC CLOSURE. SEE NOTES AND DETAILS.

ESD.1 ELIASON MODEL #P11+ BAKERY - BACKROOM SALES - BACKROOM SALAD BAR PREP - PRODUCE; KITCHEN - KITCHEN PREP; FINISH COLOR: METALLIC GRAY

ESD.2 ELIASON MODEL #P11+ W/S - BACKROOM; FINISH COLOR: BEIGE

ESD.4 ELIASON MODEL #RMR-1500 PROD. COOLER - PROD. TRIM ROOM PROD. TRIM - BACKROOM (GALV. FRAME OR JAMB) FINISH COLOR: METALLIC GRAY, BLACK AT KEG COOLER

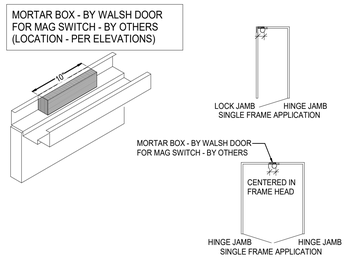
ESD.6 ELIASON MODEL #LWP-6 CASUAL DINING - DISHWASH AREA (NON-LOCKING); FINISH COLOR: PLAM 19 (WALNUT HEIGHTS)

DOOR AND FRAME SCHEDULE

OPENING NUMBER	LOCATION	DOORS TYPE	NOMINAL SIZE W	NOMINAL SIZE H	NOMINAL SIZE T	DOOR ELEVATION	QUANTITY	FRAME ELEVATION	FRAME DETAIL HEAD	FRAME DETAIL JAMB	SCHEDULE NOTES	HARDWARE GROUP	OPENING NUMBER
1	W & S VESTIBULE	STA4	8'-0"	10'-0"	---	REF A3.12	1	REF A3.12	---	---	---	---	1
2	WINE & SPIRITS	STA4	10'-0"	12'-0"	---	REF A3.12	1	REF A3.12	[5]	[4]	---	---	2
3	DISH ROOM	ESD.6	3'-0"	7'-0"	---	G	1	B	A	A	---	8	3
5	WINE & SPIRITS	HM1	5'-0"	7'-0"	1 3/4"	B	PR	A	K	J	3	5A	5
6	STORAGE	ESD.1	5'-0"	7'-0"	---	F	PR	C	B	B	---	7	6
7	EMPLOYEE LOUNGE	WD	3'-0"	7'-0"	1 3/4"	L	1	B	D	D	---	12	7
8	EMPLOYEE LOUNGE	WD	3'-0"	7'-0"	1 3/4"	C	1	D	D	D	---	11B	8
9	EMPLOYEE LOUNGE	ESD.1	3'-0"	7'-0"	---	G	1	B	A	A	---	8	9
10	ASSISTANT MANAGERS OFFICE	WD	3'-0"	7'-0"	1 3/4"	C	1	D	D	D	---	12A	10
11	DIRECTORS OFFICE	WD	3'-0"	7'-0"	1 3/4"	B	1	D	D	D	---	12A	11
12	HUMAN RESOURCES	WD	3'-0"	7'-0"	1 3/4"	B	1	D	D	D	---	12A	12
13	DEPT. HEADS	WD	3'-0"	7'-0"	1 3/4"	B	1	D	D	D	---	12A	13
14	SALES	ETR	3'-0"	7'-0"	---	---	1	---	---	---	---	---	14
16	HALLWAY	ETR	7'-0"	7'-0"	---	---	---	---	---	---	---	---	16
17	KEG COOLER	ESD.4	3'-0"	7'-0"	---	REF A3.9	1	B	A	A	---	8	17
18	WOMEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	18
19	MOTHERS ROOM	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	19
20	WOMEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	20
21	WOMEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	21
22	WOMEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	22
23	WOMEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	23
24	MEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	24
25	MEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	25
26	MEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	26
27	MEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	27
28	MEN	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	2	9A	28
29	DSD ROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	29
30	BAKERY	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	30
31	STOCKROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	7	---	31
32	SALES	ESD.1	7'-0"	9'-0"	---	F	PR	C	B	B	1	7	32
33	SALES	ESD.1	3'-0"	7'-0"	---	G	1	C	B	B	1	7	33
34	PRODUCE TRIM	ESD.4	3'-0"	8'-0"	---	F	PR	B	A	A	---	---	34
35	PRODUCE COOLER	ESD.4	5'-0"	7'-0"	---	F	PR	B	A	A	---	---	35
36	POULTRY/SEAFOOD COOLER	ETR	3'-0"	7'-6"	---	---	---	---	---	---	---	---	36
37	STOCKROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	7	---	37
38	STOCKROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	38
41	MEAT COOLER	ETR	3'-0"	7'-6"	---	---	---	---	---	---	---	---	41
42	STOCKROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	42
43	STOCKROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	7	---	43
46	SALES	ETR	7'-6"	7'-0"	---	---	---	---	---	---	---	---	46
47	DIETICIAN CONSULT	WD	3'-0"	7'-0"	---	J	1	B	D	D	---	12A	47
48	PHARMACY	WD	3'-0"	7'-0"	---	C	1	B	D	D	---	14	48
49	PHARMACY	WD	3'-0"	7'-0"	---	C	1	B	D	D	---	15	49
50	PHARMACY SECURITY GRILLE	SG1	1'-0"	9'-0"	---	---	SGL	---	8/A5.2	---	---	---	50
51	STORAGE	WD	3'-0"	7'-0"	---	L	1	B	D	D	---	12	51
52	EXAM 2	WD	3'-0"	7'-0"	---	B	1	B	D	D	---	11D	52
53	EXAM 1	WD	3'-0"	7'-0"	---	B	1	B	D	D	---	11D	53
54	RESTROOM	WD	F.V.	7'-0"	---	B	1	B	D	D	2	9A	54
55	CLINIC	WD	3'-0"	7'-0"	---	B	1	B	D	D	---	12A	55
56	EAST VESTIBULE	ETR	12'-0"	12'-0"	---	---	---	---	---	---	---	---	56
57	EAST VESTIBULE	ETR	12'-0"	12'-0"	---	---	---	---	---	---	---	---	57
58	FLORAL PREP	WD	3'-0"	7'-0"	---	R	1	2/A2.3	2/A2.3	2/A2.3	---	---	58
63	WEST VESTIBULE	ETR	11'-6"	12'-0"	---	---	---	---	---	---	---	---	63
64	WEST VESTIBULE	STA4	13'-11"	7'-10"	---	---	---	---	---	---	---	---	64
65	MEN	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	65
66	WOMEN	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	66
67	SALES	ESD.1	3'-0"	3'-0"	---	G	1	B	---	---	---	8	67
68	RECEIVING	HM1	3'-6"	7'-0"	---	B	1	A	H (SIM)	J (SIM)	---	---	68
69	W&S SECURITY GRILLE	SG2	1'-0" F.V.	9'-0"	---	---	SGL	---	18/A5.2	---	---	---	69
91	WINE & SPIRITS	---	3'-2"	7'-8"	---	---	---	---	---	---	8	---	91
93	DISH ROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	93
94	AISLES ONLINE	ESD.1	6'-0"	8'-0"	---	F	PR	C	B	B	1	---	94
112	SECURITY ROOM	ETR	3'-0"	7'-0"	---	---	---	---	---	---	---	---	112
130	AISLES ONLINE	STA5	8'-0"	7'-8"	---	REF 2/A3.16	1	REF 2/A3.16	M	N	---	---	130
131	AISLES ONLINE	STA5	8'-0"	7'-8"	---	REF 2/A3.16	1	REF 2/A3.16	M	N	---	---	131
133	SALES	ESD.1	7'-0"	9'-0"	---	F	PR	C	B	B	1	---	133
134	CASH ACCOUNTABILITY	WD	3'-0"	7'-0"	1 3/4"	B	1	B	D	D	---	---	134
135	HALLWAY	WD	3'-0"	7'-0"	---	L	1	B	D	D	---	12	135

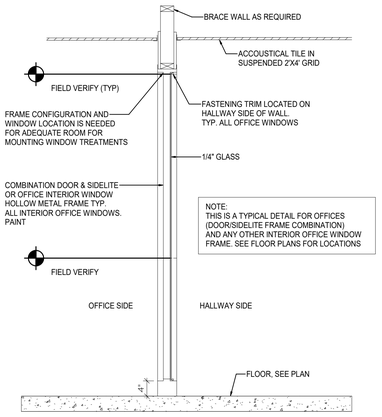
REMOVE DOOR 4

REMOVE DOOR 59, 60, 61, & 62



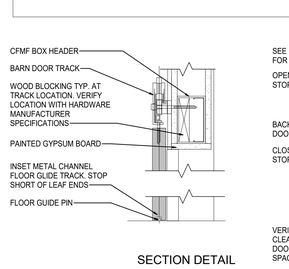
MORTAR BOX DETAIL AT EXTERIOR DOORS

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



DOOR/WINDOW FRAME SECTION-TYPICAL

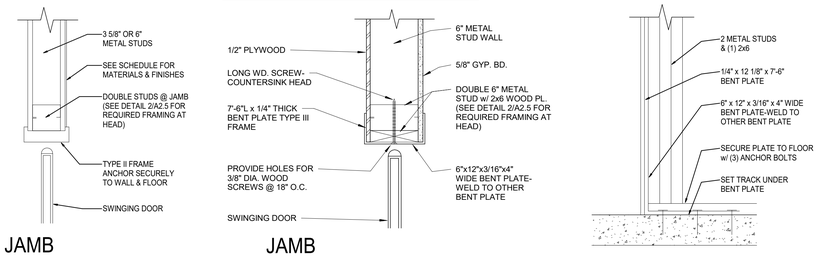
3 SCALE: 3/4" = 1'-0"

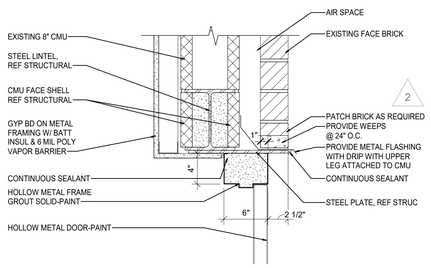


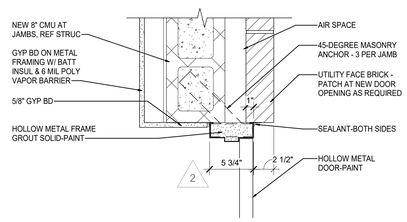
BARN DOOR DETAIL

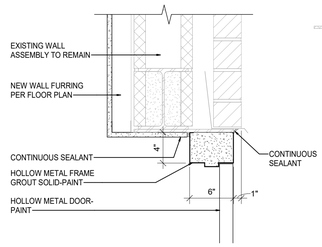
2 SCALE: 1 1/2" = 1'-0"

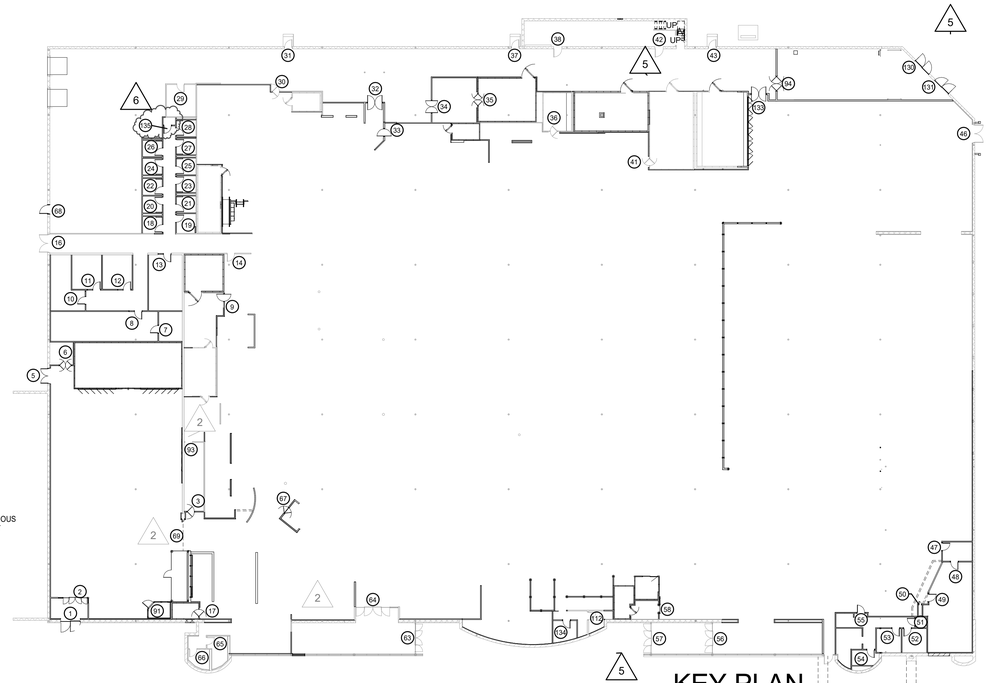
NOTE: REFERENCE DETAIL C FOR SILL CONDITION AT JAMBS











KEY PLAN

1 SCALE: 1 : 300

REVISION		DATE BY
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Austin
Reno
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect 04/21/21
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

DOOR SCHEDULE & DETAILS

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

A2.3

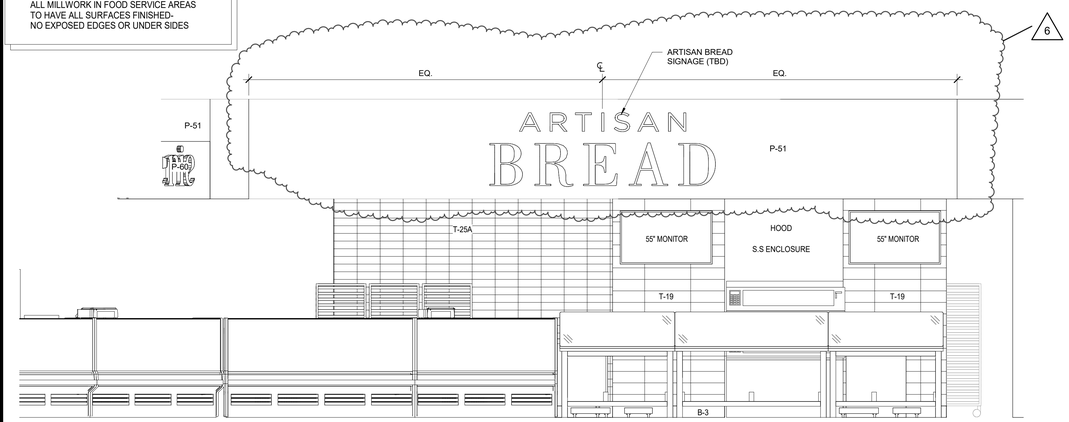
4/15/2021 4:50:12 PM

GENERAL NOTES

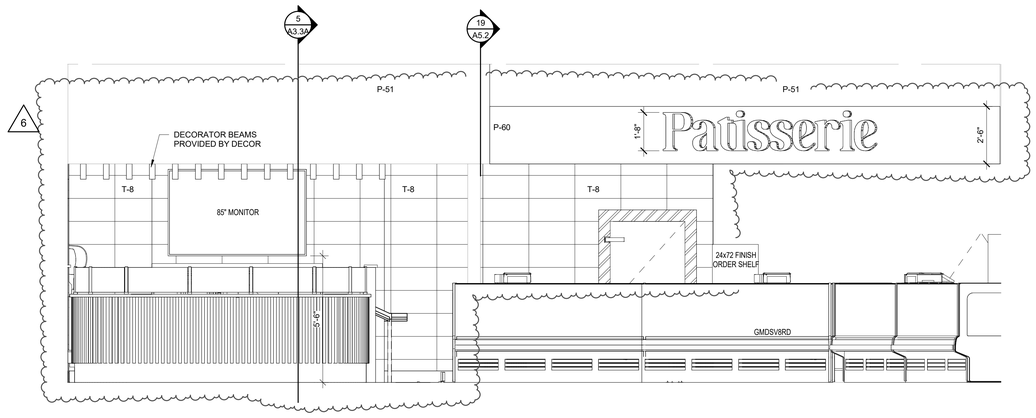
FOR FINISH SCHEDULE SEE SHEET A2.2.
MILLWORK CABINETS FURNISHED BY HY-VEE

***NOTE: INSTALL SCHLUTER-RONDEC SATIN ANODIZED ALUMINUM RO 80A STRIP ON ALL OUTSIDE CORNERS WITH CERAMIC TILE

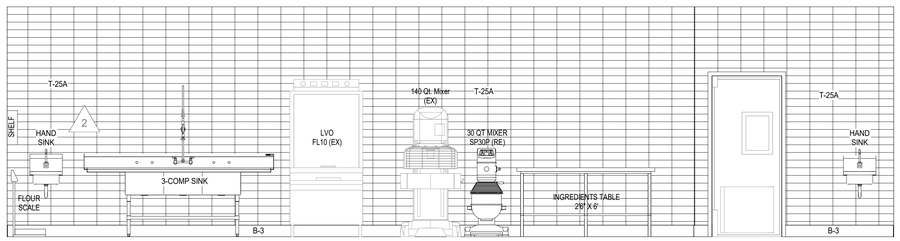
ALL MILLWORK IN FOOD SERVICE AREAS TO HAVE ALL SURFACES FINISHED- NO EXPOSED EDGES OR UNDER SIDES



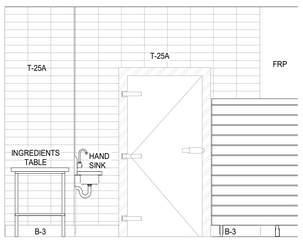
9 ELEVATION
SCALE: 3/8" = 1'-0"



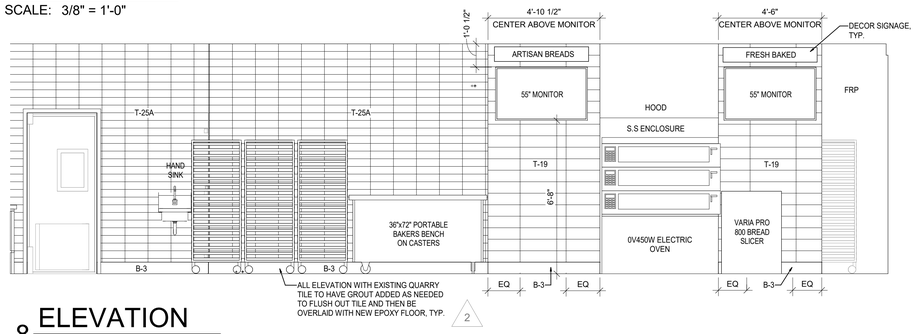
10 ELEVATION
SCALE: 3/8" = 1'-0"



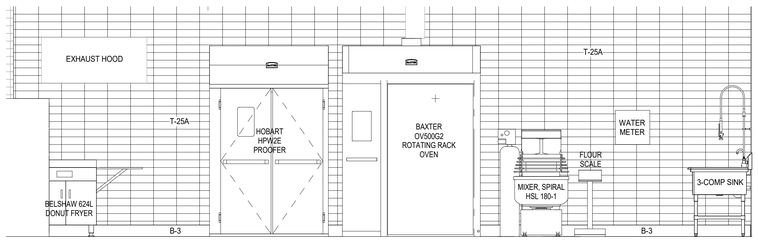
6 ELEVATION
SCALE: 3/8" = 1'-0"



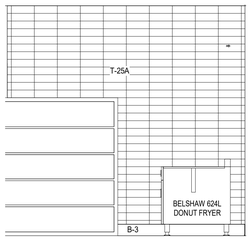
7 ELEVATION
SCALE: 3/8" = 1'-0"

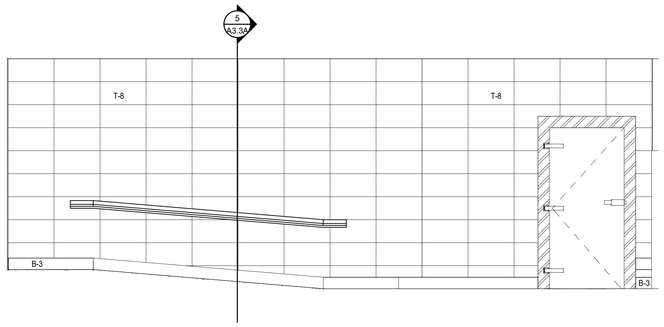


8 ELEVATION
SCALE: 3/8" = 1'-0"



5 ELEVATION
SCALE: 3/8" = 1'-0"

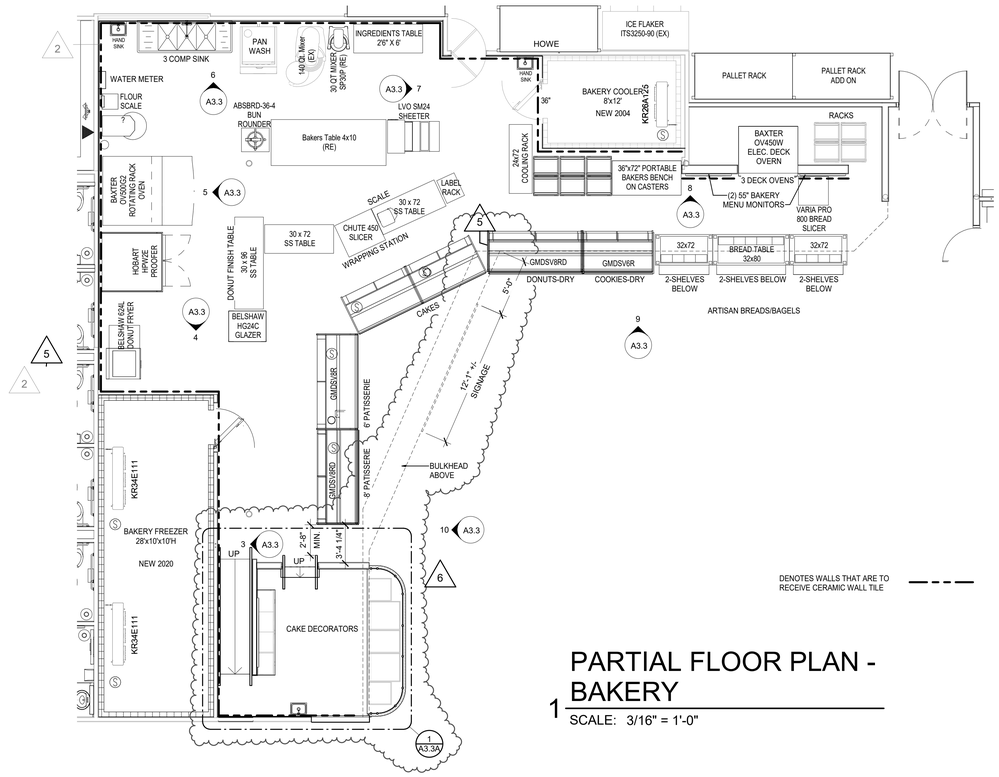




4 ELEVATION
SCALE: 3/8" = 1'-0"

3 ELEVATION
SCALE: 3/8" = 1'-0"

ELEVATIONS LABELED 2 MOVED TO SHEET A3.3A



1 PARTIAL FLOOR PLAN - BAKERY
SCALE: 3/16" = 1'-0"

DENOTES WALLS THAT ARE TO RECEIVE CERAMIC WALL TILE

REVISION		DATE BY
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL
STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

04/21/21
Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

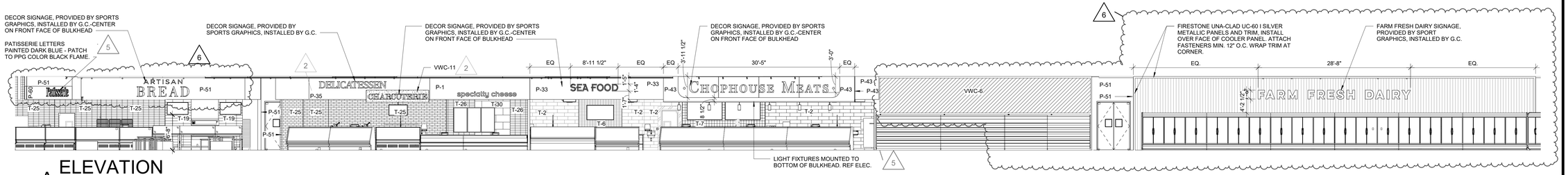
NORTH

ENLARGED PLAN & ELEVATIONS - BAKERY

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
Author	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

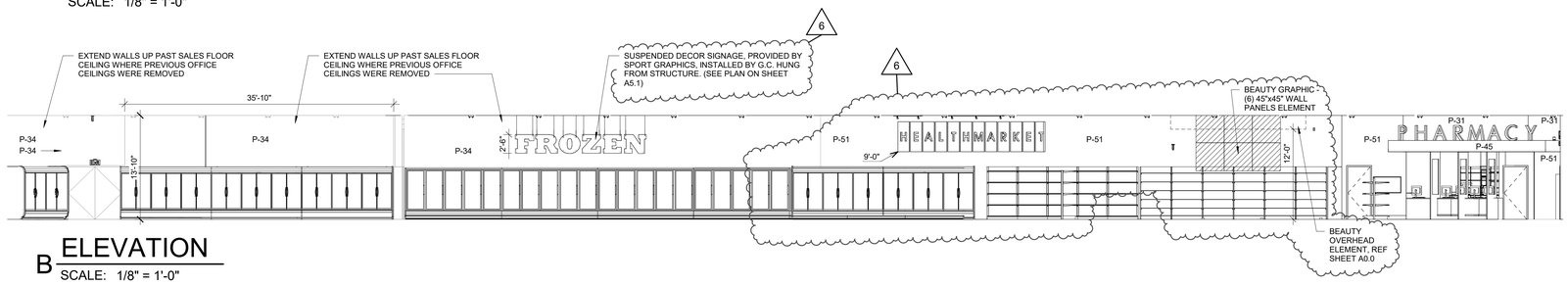
SHEET:
A3.3

4/20/2021 9:38:52 AM



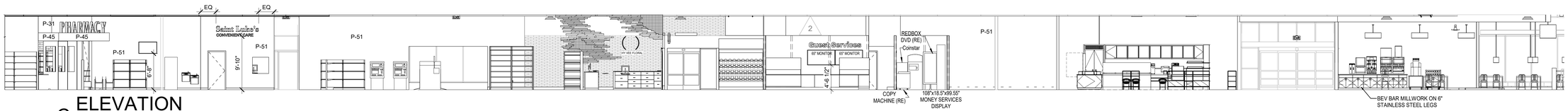
A ELEVATION

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



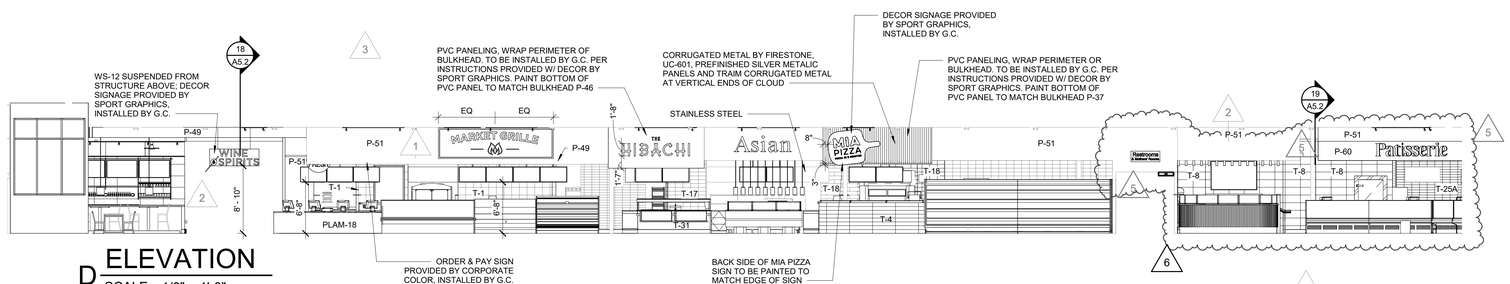
B ELEVATION

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



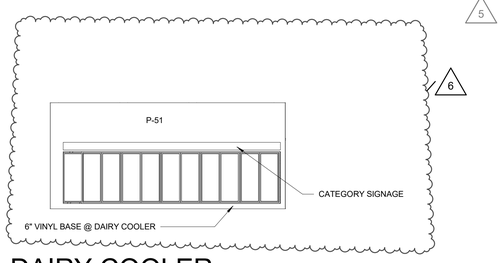
C ELEVATION

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



D ELEVATION

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



E DAIRY COOLER

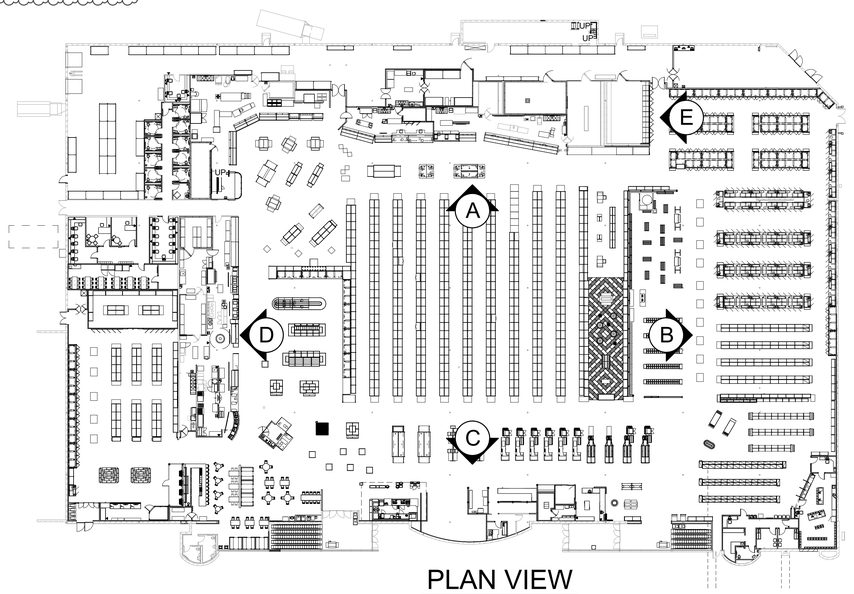
SCALE: 1/8" = 1'-0"

TV DISPLAY NOTES:

1. ALL TV DISPLAYS PROVIDED AND INSTALLED BY A+
2. ALL MOUNTING AND ATTACHMENT PROVIDED BY A+
3. CONTRACTOR TO COORDINATE ALL INSTALL LOCATIONS, CONDUIT RUNS, AND ACCESS FOR INSTALLATIONS WITH A+
4. CONTRACTOR TO COORDINATE AND PROVIDE ALL REQUIRED WOOD BLOCKING FOR WALL MOUNTED INSTALLATIONS.

DECOR NOTES:

1. ALL DECOR SIGNAGE IS PROVIDED & INSTALLED BY CONTRACTOR.
2. ALL CURTAIN WALL PAINTING BY CONTRACTOR.
3. INSTALLATION DETAILS WILL BE PROVIDED BY THE DECOR SUPPLIER. VERIFY WITH CONSTRUCTION DOCUMENTS.
4. SALES FLOOR COLUMNS TO BE PAINTED P-2. ALL COLUMNS EXPOSED IN SALES AREA TO BE WRAPPED WITH STAINLESS STEEL TO +4'0" A.F.F.
5. USE B1 (VINYL BASE) THROUGHOUT STORE UNLESS NOTED OTHERWISE.
6. FOR FINISH SCHEDULE SEE SHEET A2.2



PLAN VIEW

SCALE: N.T.S.

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr. 04/21/21
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

INTERIOR DECOR PLAN

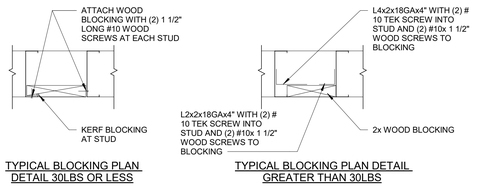
PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

A2.4

4/21/2021 11:48:39 AM

REVISION		DATE BY
3	ASI #3	01/26/21
4	ASI #4	02/05/21
6	ASI #7	04/16/21

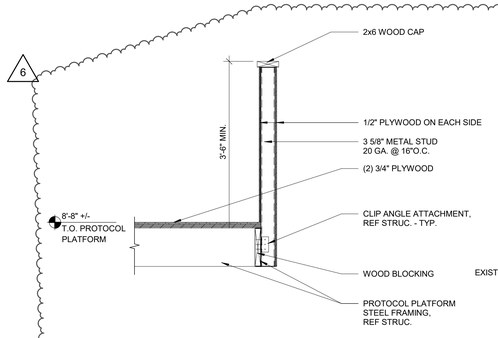


TYPICAL BLOCKING PLAN DETAIL 30LBS OR LESS

TYPICAL BLOCKING PLAN DETAIL GREATER THAN 30LBS

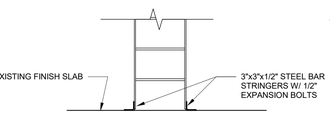
4 TYPICAL WOOD BLOCKING ATTACHMENT DETAIL

SCALE: 1 1/2" = 1'-0"



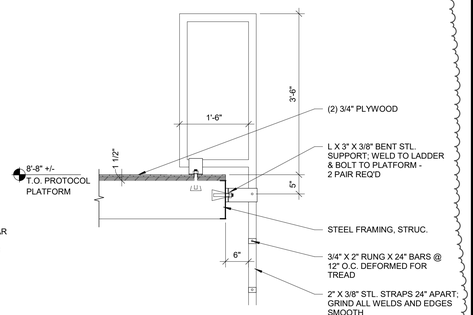
7 GUARDRAILING DETAIL

SCALE: 3/4" = 1'-0"



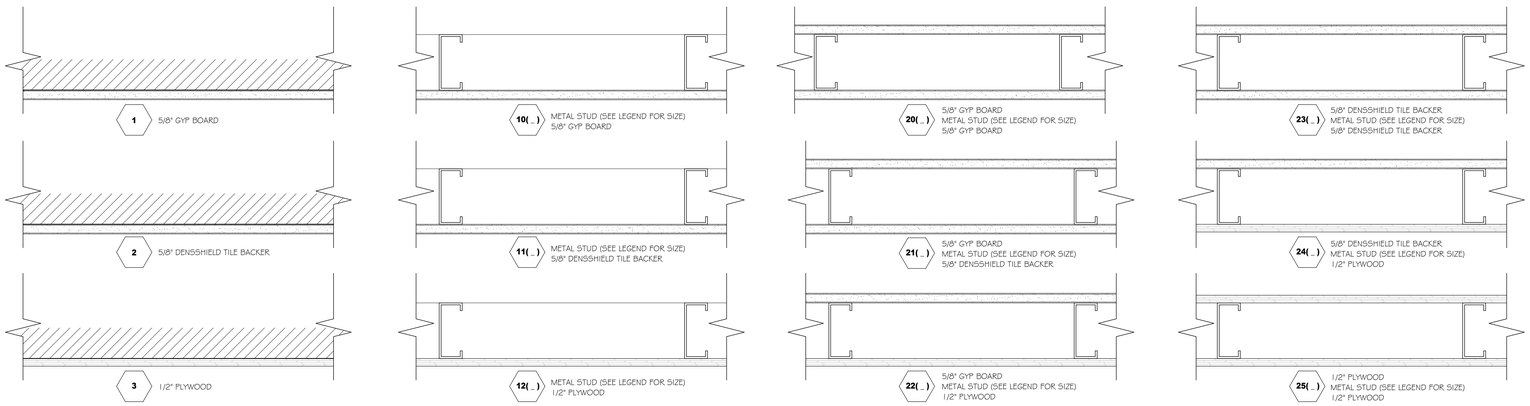
6 LADDER DETAIL

SCALE: 1/2" = 1'-0"



5 LADDER DETAIL

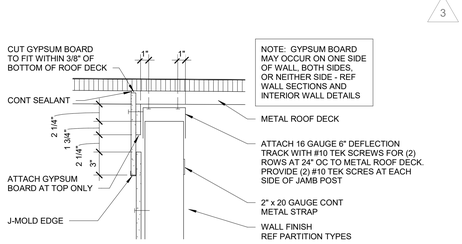
SCALE: 3/4" = 1'-0"



METAL STUD SIZE LEGEND

- **A -** 7/8"
- **B -** 1 5/8"
- **C -** 2 1/2"
- **D -** 3 5/8"
- **E -** 4"
- **F -** 6"
- **G -** 8"
- **H -** 10"

NOTE: ALL GYPSUM BOARD CALLED OUT IN PREP OR SERVICE AREAS AND IN RESTROOMS IS TO BE DENSSHIELD. THE DENSSHIELD ONLY NEEDS TO GO ON THE WET SIDE (PREP/SERVICE/RESTROOM SIDE) OF THE WALL.

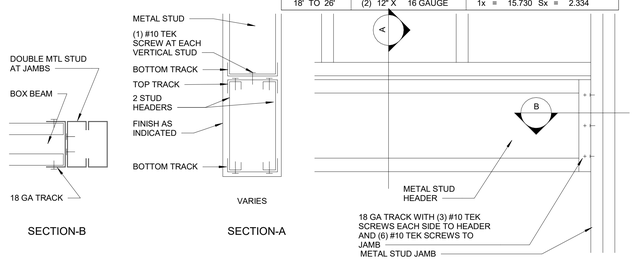


3 NON-RATED DEFLECTION TRACK

SCALE: 1 1/2" = 1'-0"

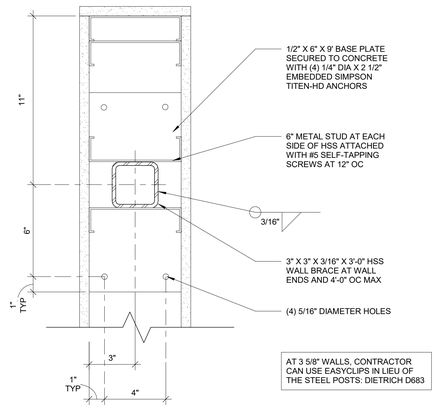
INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE

HEADER LENGTH	HEADER MEMBERS	MINIMUM EFFECTIVE PROPERTIES PER STUD
2' TO 6'	(2) 6" X 18 GAUGE	1x = 2.042 Sx = 0.670
6' TO 8'	(2) 6" X 16 GAUGE	1x = 2.518 Sx = 0.839
8' TO 10'	(2) 6" X 14 GAUGE	1x = 3.094 Sx = 1.031
10' TO 12'	(2) 8" X 18 GAUGE	1x = 4.134 Sx = 1.033
12' TO 14'	(2) 8" X 16 GAUGE	1x = 5.110 Sx = 1.277
14' TO 16'	(2) 8" X 14 GAUGE	1x = 6.303 Sx = 1.576
16' TO 18'	(2) 10" X 14 GAUGE	1x = 12.325 Sx = 2.456
18' TO 26'	(2) 12" X 16 GAUGE	1x = 15.730 Sx = 2.334



2 HEADER CONNECTION DETAIL

SCALE: 1 1/2" = 1'-0"



1 PLAN AT KNEE WALL

SCALE: 3" = 1'-0"

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI · RICHARD A. MAJORS, JR. · NUMBER A-007528 · REGISTERED ARCHITECT

Richard A. Majors, Jr. 2021
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2930

Hy-Vee® EMPLOYEE OWNED

NORTH

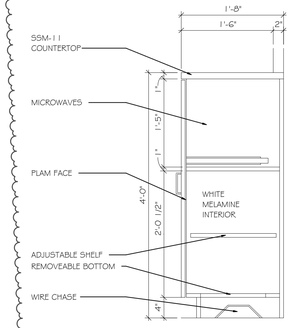
INTERIOR WALL DETAILS

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AP	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

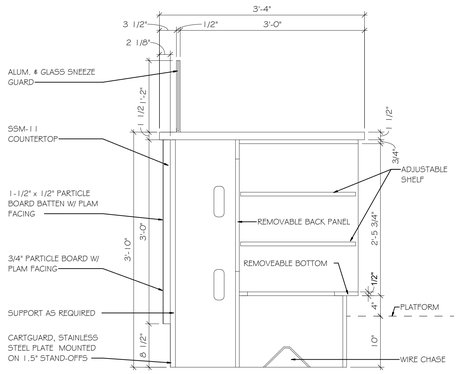
SHEET:

A2.5

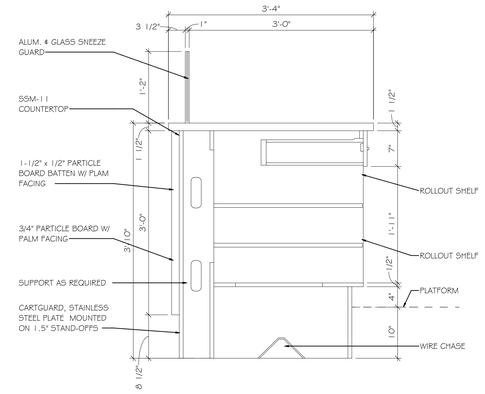
4/14/2021 10:18:35 AM



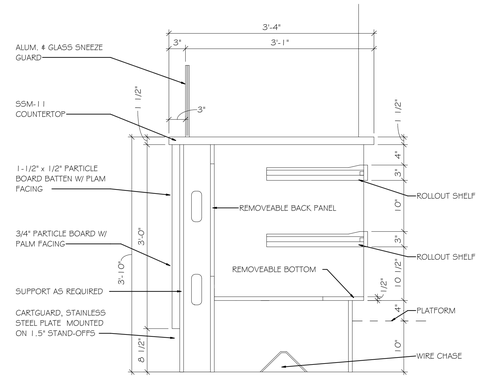
13 MILLWORK SECTION
SCALE: 1" = 1'-0"



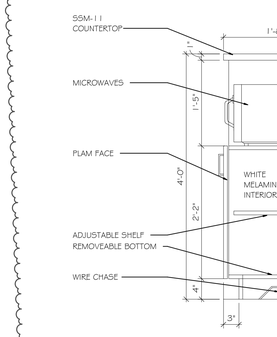
12 MILLWORK SECTION
SCALE: 1" = 1'-0"



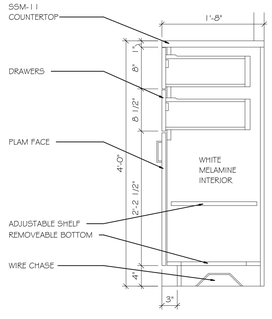
11 MILLWORK SECTION
SCALE: 1" = 1'-0"



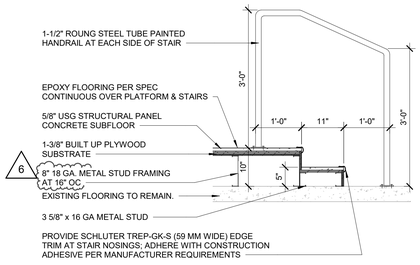
10 MILLWORK SECTION
SCALE: 1" = 1'-0"



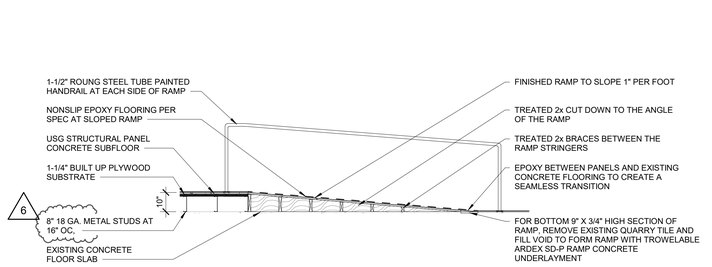
9 MILLWORK SECTION
SCALE: 1" = 1'-0"



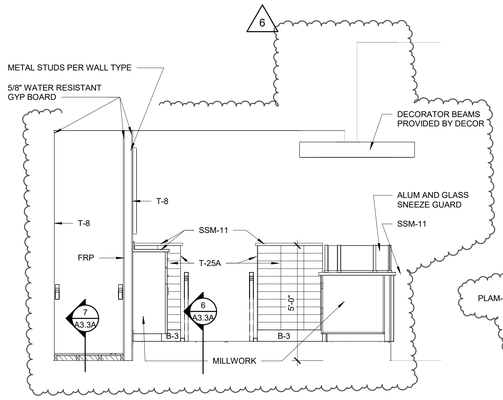
8 MILLWORK SECTION
SCALE: 1" = 1'-0"



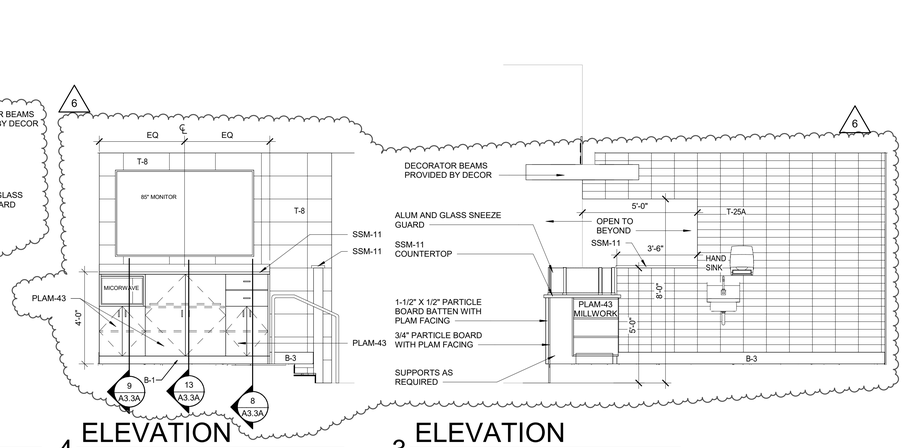
6 STAIR SECTION
SCALE: 3/4" = 1'-0"



7 RAMP SECTION
SCALE: 3/8" = 1'-0"

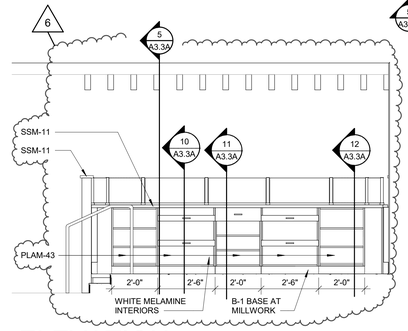


5 RAMP SECTION
SCALE: 3/8" = 1'-0"

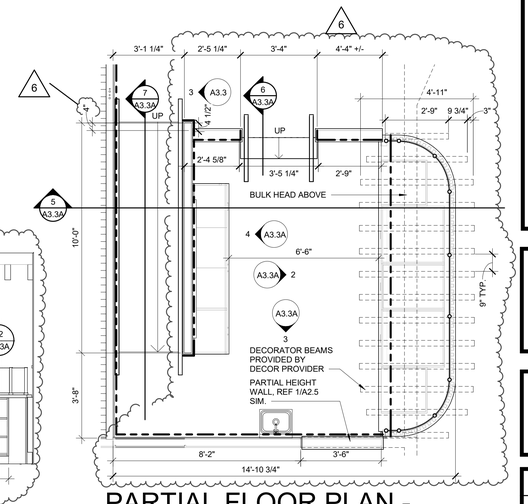


4 ELEVATION
SCALE: 3/8" = 1'-0"

3 ELEVATION
SCALE: 3/8" = 1'-0"



2 ELEVATION
SCALE: 3/8" = 1'-0"



1 PARTIAL FLOOR PLAN - CAKE DECORATING
SCALE: 3/8" = 1'-0"

6 DENOTES WALLS THAT ARE TO RECEIVE CERAMIC WALL TILE

REVISION		DATE BY
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Dallas
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528
4/16/21

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee®
EMPLOYEE OWNED

NORTH

ENLARGED PLAN & ELEVATIONS - CAKE DECORATING

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
LKE	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:
A3.3A

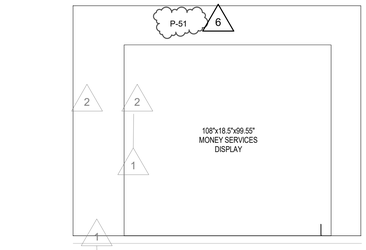
4/21/2021 8:27:35 AM

GENERAL NOTES

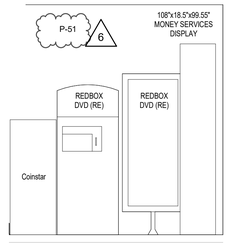
SEE SHEET A2.2 FOR FINISH SCHEDULES

MILLWORK CABINETS PROVIDED BY HY-VEE

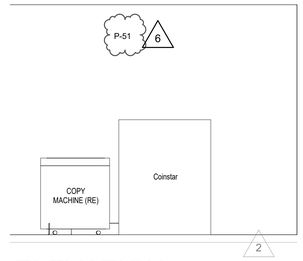
ALL OFFICE AREAS, PAINT UNDERCOUNTER BRACKETS TO MATCH WALL FINISH



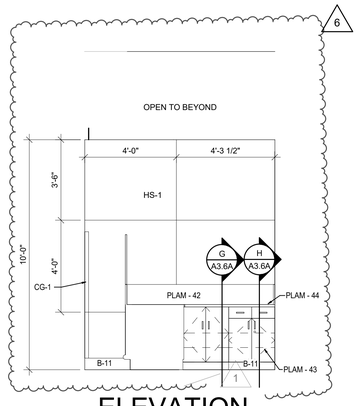
10 ELEVATION
SCALE: 3/8" = 1'-0"



9 ELEVATION
SCALE: 3/8" = 1'-0"



8 ELEVATION
SCALE: 3/8" = 1'-0"

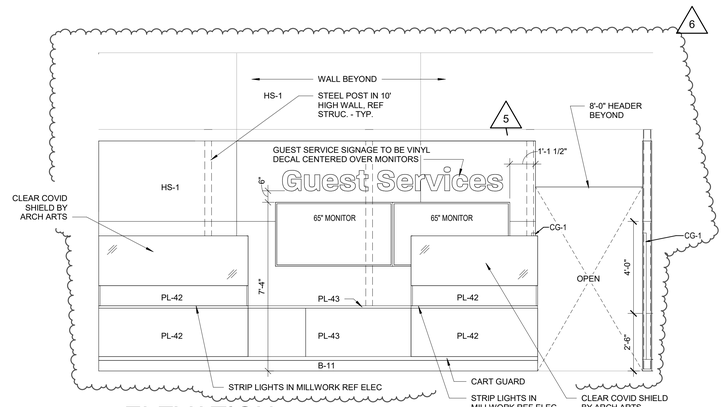


7 ELEVATION
SCALE: 3/8" = 1'-0"

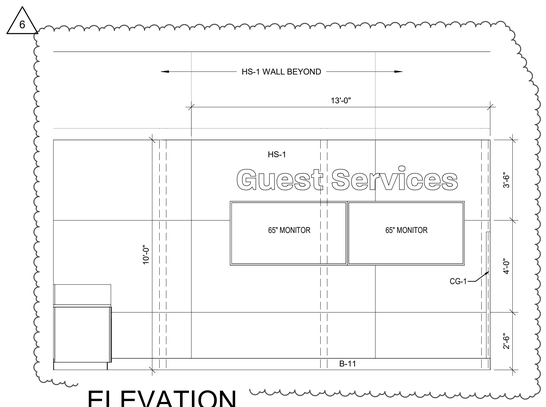


6 ELEVATION
SCALE: 3/8" = 1'-0"

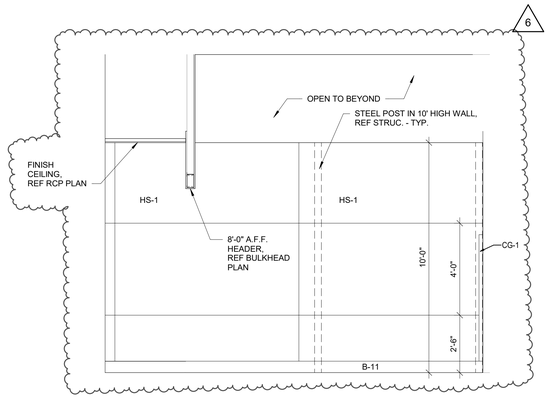
5 ELEVATION
SCALE: 3/8" = 1'-0"



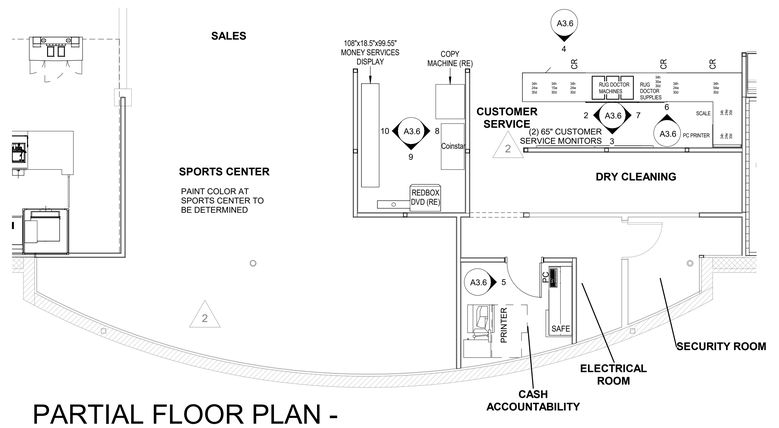
4 ELEVATION
SCALE: 3/8" = 1'-0"



3 ELEVATION
SCALE: 3/8" = 1'-0"



2 ELEVATION
SCALE: 3/8" = 1'-0"



1 PARTIAL FLOOR PLAN - CUSTOMER SERVICE
SCALE: 3/16" = 1'-0"

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boise
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2805

Hy-Vee® EMPLOYEE OWNED

NORTH

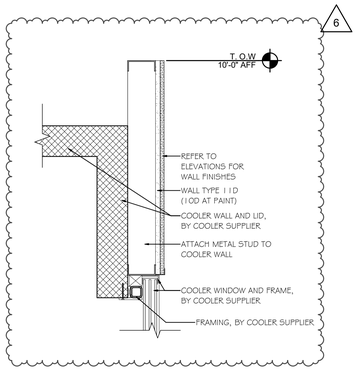
ENLARGED PLAN & ELEVATIONS - CUSTOMER & MONEY SERVICE

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AP	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

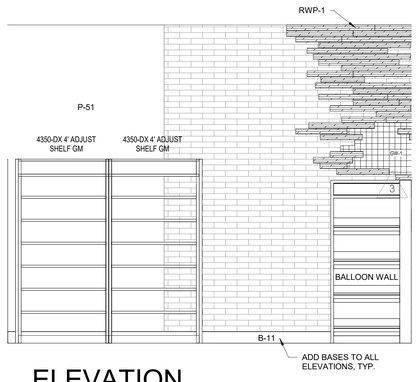
SHEET:

A3.6

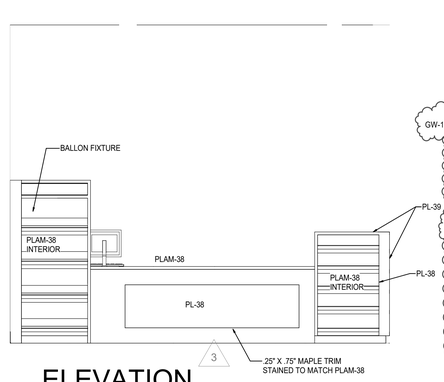
4/15/2021 6:25:26 PM



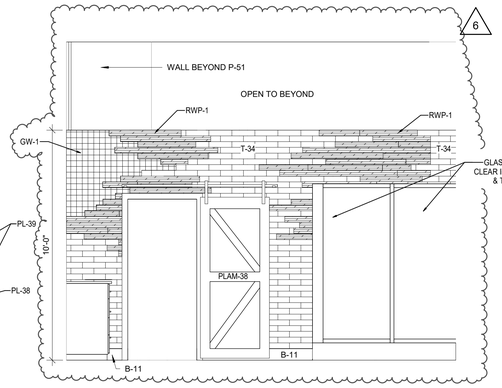
12 FLORAL SECTION
SCALE: 1 1/2" = 1'-0"



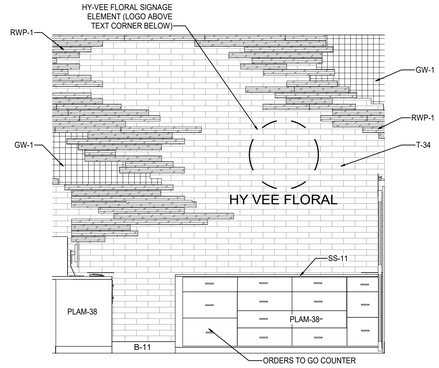
11 ELEVATION
SCALE: 3/8" = 1'-0"



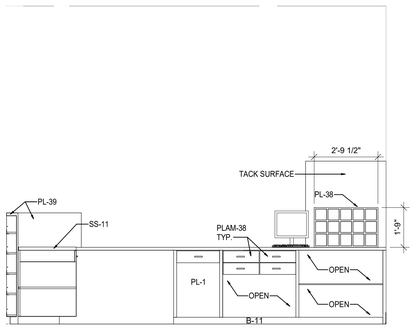
10 ELEVATION
SCALE: 3/8" = 1'-0"



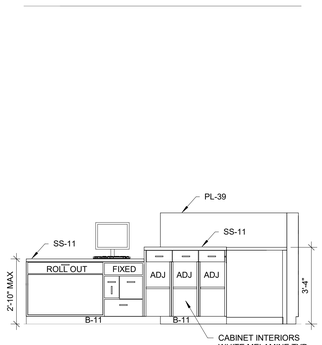
9 ELEVATION
SCALE: 3/8" = 1'-0"



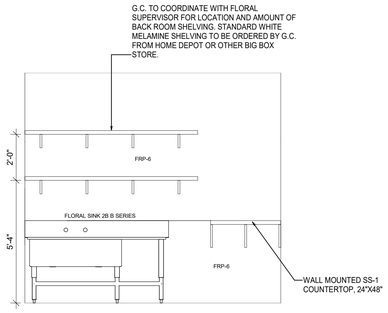
8 ELEVATION
SCALE: 3/8" = 1'-0"



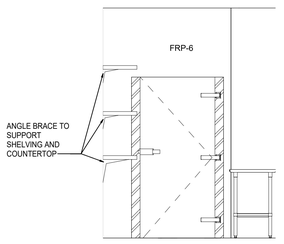
7 ELEVATION
SCALE: 3/8" = 1'-0"



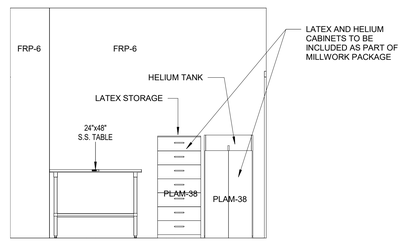
6 ELEVATION
SCALE: 3/8" = 1'-0"



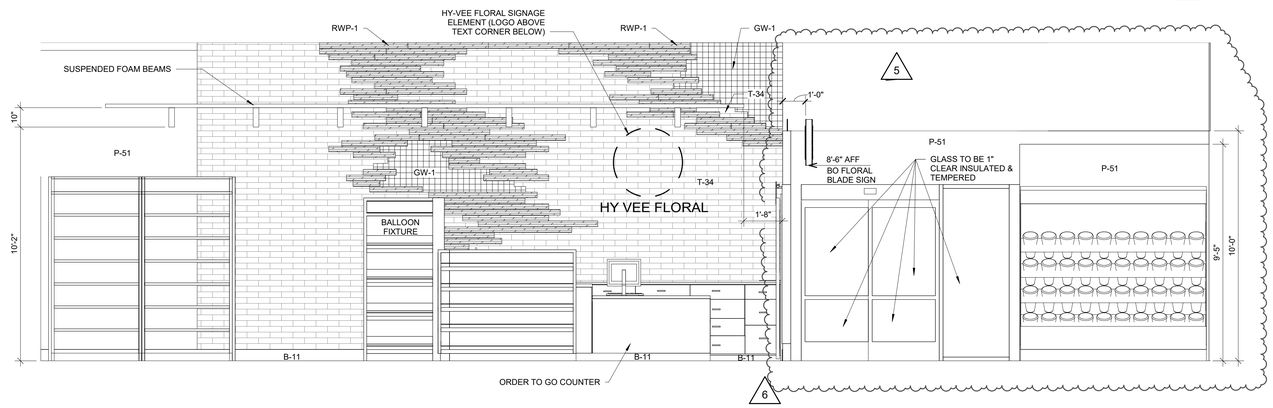
5 ELEVATION
SCALE: 3/8" = 1'-0"



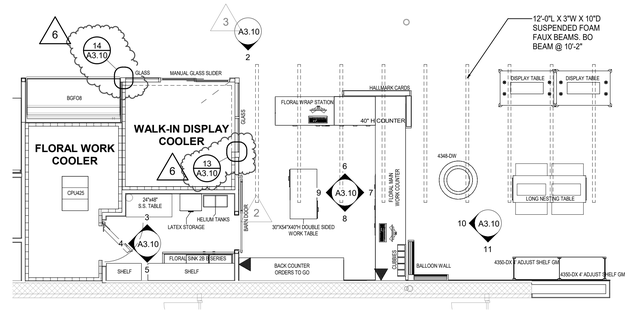
4 ELEVATION
SCALE: 3/8" = 1'-0"



3 ELEVATION
SCALE: 3/8" = 1'-0"



2 ELEVATION
SCALE: 3/8" = 1'-0"



1 PARTIAL FLOOR PLAN - FLORAL
SCALE: 3/16" = 1'-0"

GENERAL NOTES

FOR FINISH SCHEDULE SEE SHEET A2.2.

REVISION		DATE BY
2	ASI #2	01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect 04/21/21
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

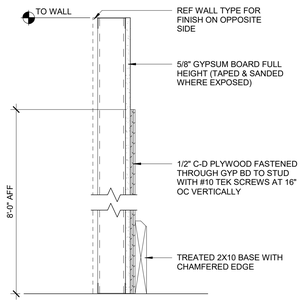
ENLARGED PLAN & ELEVATIONS - FLORAL

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

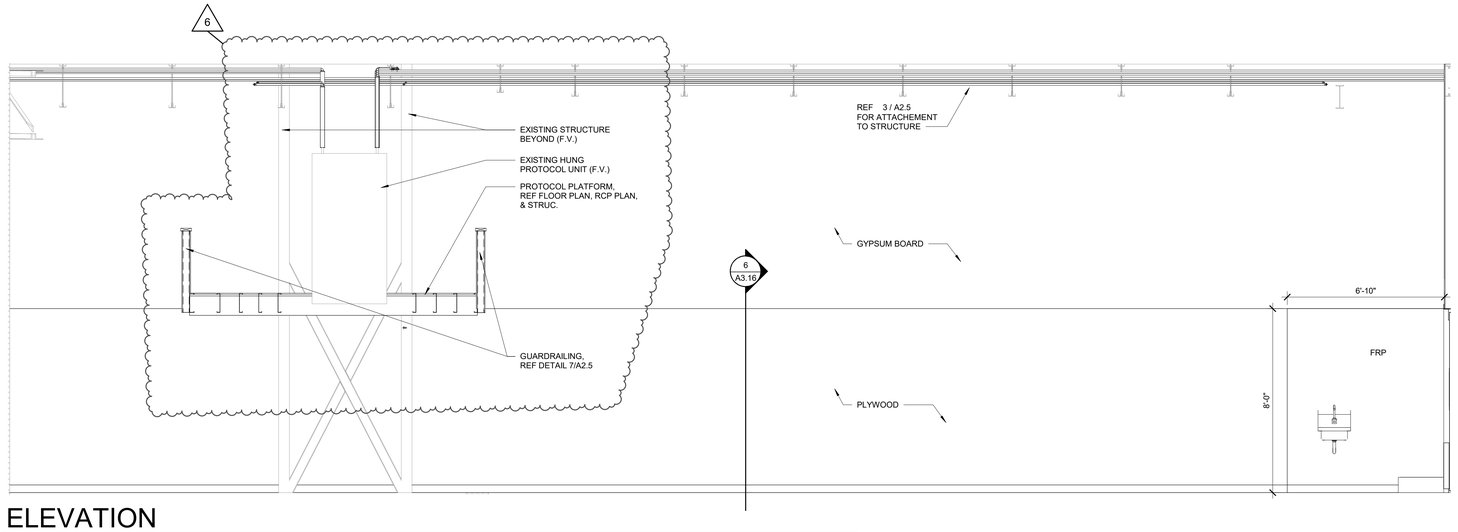
A3.10

4/15/2021 9:39:16 PM



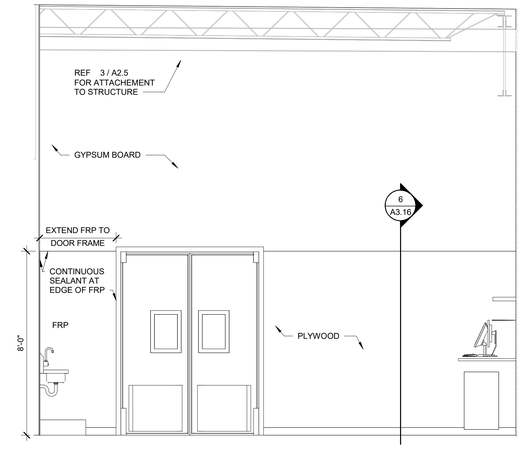
6 BOH PLY SHEATHING

SCALE: 1 1/2" = 1'-0"



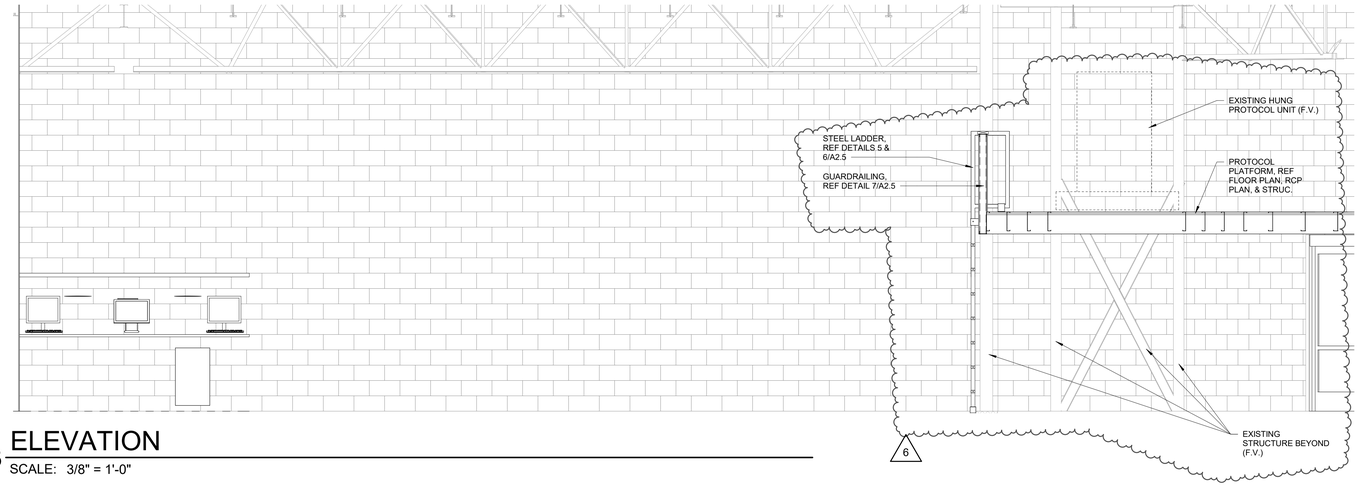
5 ELEVATION

SCALE: 3/8" = 1'-0"



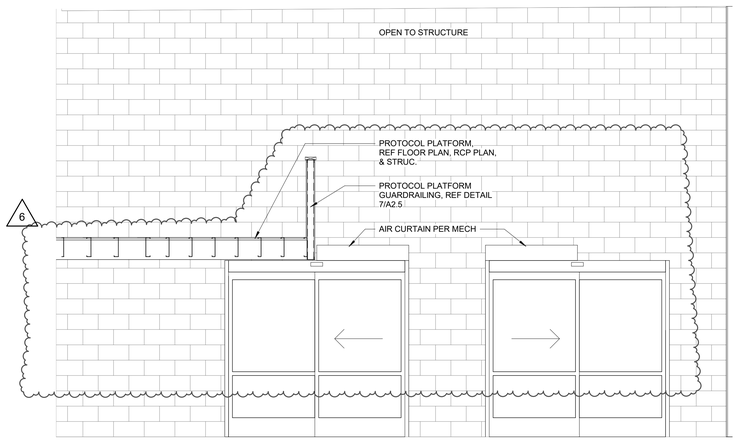
4 ELEVATION

SCALE: 3/8" = 1'-0"



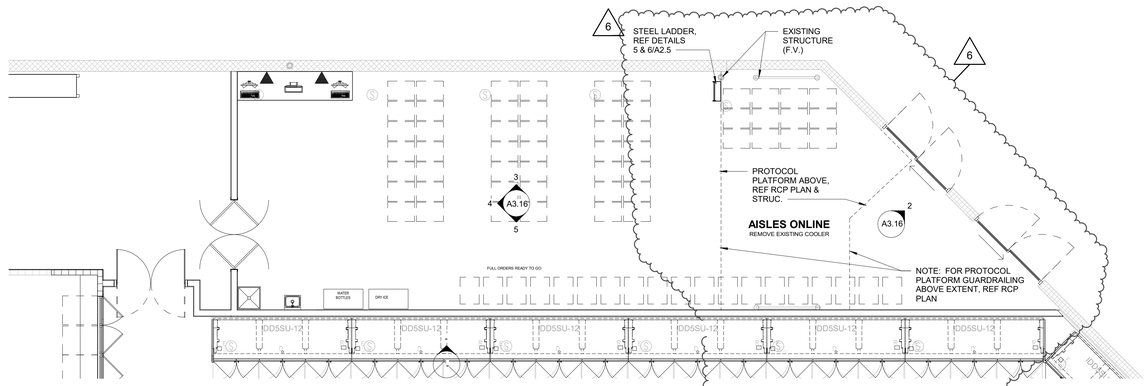
3 ELEVATION

SCALE: 3/8" = 1'-0"



2 ELEVATION

SCALE: 3/8" = 1'-0"



1 PARTIAL FLOOR PLAN- AISLES ONLINE

SCALE: 3/16" = 1'-0"

REVISION		DATE BY
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

05.27.21

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2939

Hy-Vee® EMPLOYEE OWNED

NORTH

ENLARGED PLAN & ELEVATIONS - AOL

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
LKE	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547
SHEET:	
A3.16	

5

4/15/2021 9:47:19 PM

NOTE:
INSTALL VERTICAL SLIP-JOINT BETWEEN FLOOR SUPPORTED WALLS AND ROOF SUPPORTED WALLS PER TYPICAL DETAIL 14/A5.2.

PROTOCOL PLATFORM STEEL FRAMING, REF RCP PLAN & STRUC.

NEW BULK HEAD TO ALIGN WITH EXISTING BULK HEAD

1'-8 1/4"
17'-10 5/8"
14'-7 1/4"
3'-0 1/4"
9'-6" A.F.F.
5'-10 1/4"
10'-6 5/8"
6'-3 1/4"
10'-9 1/4"
11'-9 1/4"
19'-0"
25'-2 1/2"
12'-6 5/8"
35'-9 1/2"
4'-7 1/4"
2'-3 3/4"
9'-0" A.F.F.
1'-11 1/2"
3'-2 1/4"
14'-5 5/8"
5'-0"
8'-0" A.F.F.
8'-0" A.F.F. (ETR)
8'-6" A.F.F.
SIM
TYP
24'-0"
14'-2"
15'-6"
12'-6 1/4"
1'-2 1/2"

SEE BOX NOTE ABOVE FOR DINING PERIMETER WALLS

STEEL POSTS, TYP. REF. STRUCTURAL
2'-0"
8'-4"
10'-7 1/2"
NORI SUSHI SIGNAGE
10'-9"
6'-5"
6'-7 1/4"
40'-9 1/2"
18'-4 1/2"
6'-5"
4'-4"
3'-11"
2'-0 1/2"
18'-1"
14'-0"
2'-6"
4'-8"
13'-9 1/2"
12'-6" A.F.F.
11'-0" A.F.F.
10'-8 1/2"
10'-0" A.F.F.
ALIGN CEILING CLOUD WITH WALL
9'-9 1/2"
6'-0"
10'-0 1/2"
2'-7 1/2"
10'-0 1/2"
5'-3 1/2"

WALL ABOVE PHARMACY SOFFIT TO RETURN BACK IN LINE WITH WALL BELOW
WALL ABOVE PHARMACY SOFFIT TO BE CENTERED ON GRILL TRACK
ALL SUSPENSION RODS TO BE CONCEALED WITHIN/BEHIND WALLS
WALL ABOVE PHARMACY SOFFIT TO RETURN BACK IN LINE WITH WALL BELOW
9'-4"
3'-9"
2'-0"
2'-0"
9'-0" A.F.F.
4'-8"
20'-11 1/2"
3'-5 1/2"
3'-2 1/2"
9'-5" A.F.F
8'-0" A.F.F
20'-3 1/2"
MATCH WALL THICKNESS
13'-6" A.F.F

NOTE:
1N NEW DINING AREA WHERE THE EXISTING CEILING HAS BEEN REMOVED, EXTEND THE 5/8" GYPSUM BOARD WALL FINISH UP ON THE DINING PERIMETER WALLS TO THE UNDERSIDE OF THE ROOF DECK WHERE IT DOESN'T ALREADY EXTEND UP. ADD FRAMING AS NEEDED SO THAT THE PERIMETER DINING WALLS ARE CONTINUOUS FULL HEIGHT. ANY EXISTING WALLS TO REMAIN ARE TO BE PATCHED/REPAIRED TO LIKE-NEW CONDITION.

1 DIMENSIONED BULKHEAD PLAN
SCALE: 3/32" = 1'-0"

REVISION		DATE BY
2	ASI #2	01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528
04/16/21

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee®
EMPLOYEE OWNED

NORTH

DIMENSIONED BULKHEAD PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
SB	3/19/2021
SCALE:	JOB NUMBER:
3/32" = 1'-0"	62930547

SHEET:
A5.0

4/20/2021 3:24:28 PM

REVISION		DATE BY
1	ASI #1	11/12/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

PROTOCOL PLATFORM @ 8'-8" +/- A.F.F.) SHOWN IN HATCHED AREA, REF STRUC.

STEEL LADDER, REF DETAILS 5 & 6/A2.5

EXISTING HUNG PROTOCOL UNIT (F.V.)

VERIFY MIN. CLEARANCE REQUIRED WITH REFRIGERATION CONTRACTOR

42" HIGH GUARD RAILING AS SHOWN IN BOLD DASHED LINES, REF DETAIL 7/A2.5

EXISTING ELEC. PANEL (F.V.)

3 5/8"

7'-4 1/2"

7'-11"

11'-11" FROM OUTSIDE FACE OF MTL TO MTL STUD

MATCH EXISTING

REPLACE TILES TO MATCH EXISTING, UP TO NEW WALL.

PROVIDE WALL TYPE 100 ABOVE COOLER

DECORATOR BEAMS PROVIDED BY DECOR PROVIDER

WHERE NEW CEILING AREAS ARE GRAPHICALLY SHOWN TO ABUT EXISTING CEILINGS, THE EXISTING CEILING GRID LAYOUT IS TO EXTEND THROUGH THE NEW CEILING AREA. ONLY FULL TILES ARE TO BE USED AT THE JUNCTURE OF EXISTING AND NEW CEILINGS. (TYPICAL)

FROZEN SIGNAGE

19'-4"

HEALTH MARKET SIGNAGE

DECOR SIGNAGE, REF 13/A5.2 FOR CONNECTION TO STRUCTURE

OPEN TO SALES FLOOR CEILING ABOVE

FOAM BEAMS, REF A3.10

FINISH CEILING 'C1' AT 13'-10 A.F.F. TO CONTINUE OVER AREAS; CUSTOMER SERVICE, FLORAL WORK COOLER, WALK-IN DISPLAY COOLER, & FLORAL. REF FLOOR PLAN SHEET A1.0 FOR NEW & EXISTING WALL BUILT TO BOTTOM OF EXISTING ROOF DECK.

1 REFLECTED CEILING PLAN

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

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Austin
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr. 04/21/21
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee EMPLOYEE OWNED

NORTH

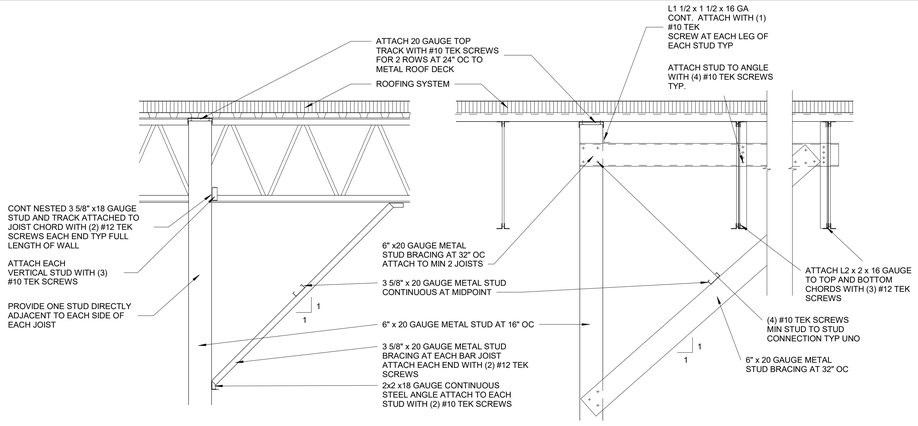
REFLECTED CEILING PLAN

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER
3/32" = 1'-0"	62930547

SHEET:

A5.1

4/21/2021 11:49:59 AM

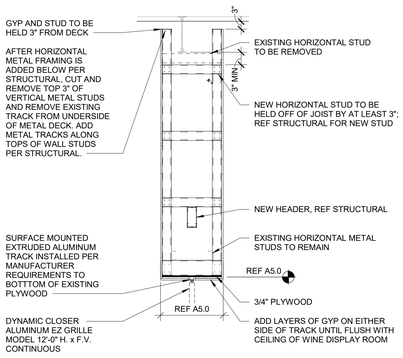


ATTACHMENT AND BRACING AT PERPENDICULAR JOIST

ATTACHMENT AND BRACING AT PARALLEL JOISTS

17 TYPICAL BULKHEAD CONNECTIONS

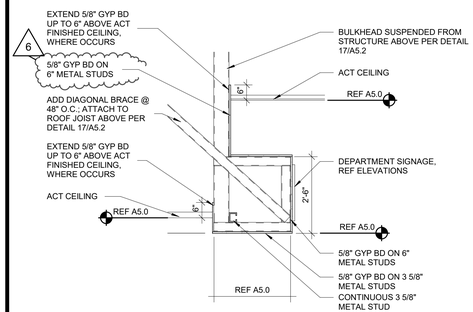
SCALE: 12" = 1'-0"



18 BULKHEAD SECTION AT W&S

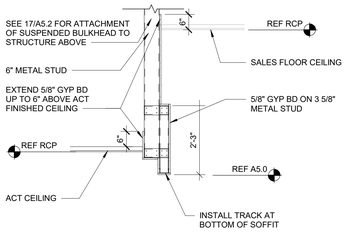
SCALE: 1/2" = 1'-0"

DETAIL 16/A5.2 REMOVED



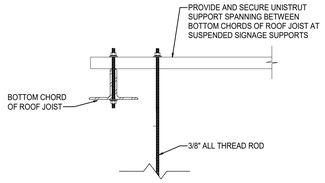
19 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



15 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



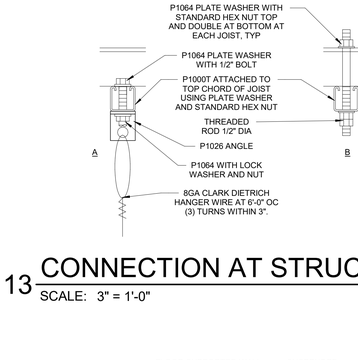
14 SIGNAGE SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"



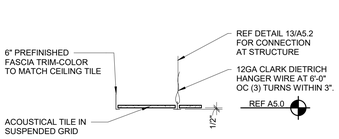
12 TYPICAL SLIP-JOINT DETAIL

SCALE: 1 1/2" = 1'-0"



13 CONNECTION AT STRUCTURE

SCALE: 3" = 1'-0"

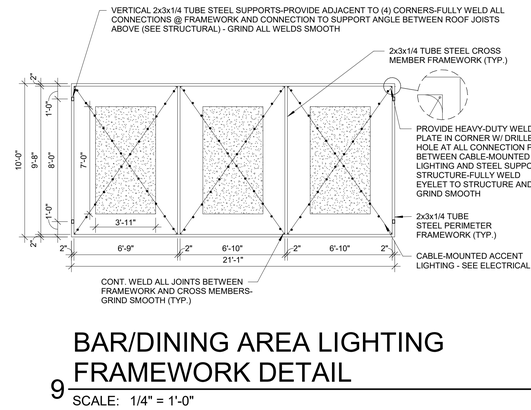


11 CLOUD SECTION

SCALE: 1/2" = 1'-0"

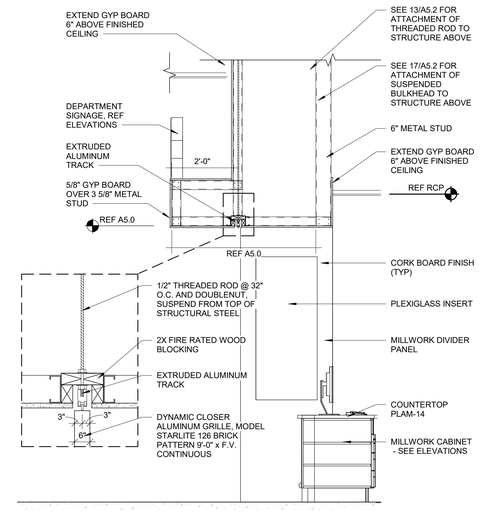
10 CLOUD AT ACT CEILING

SCALE: 1/2" = 1'-0"



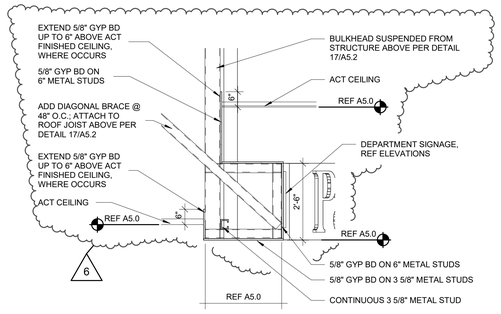
9 BAR/DINING AREA LIGHTING FRAMEWORK DETAIL

SCALE: 1/4" = 1'-0"



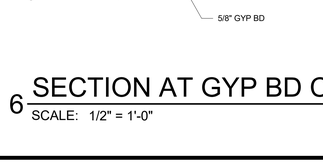
8 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



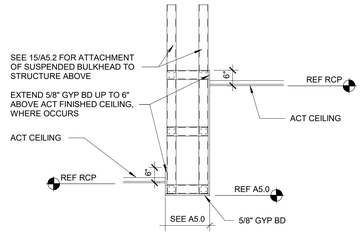
7 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



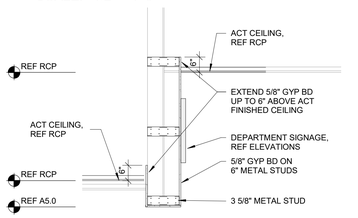
6 SECTION AT GYP BD CLOUD

SCALE: 1/2" = 1'-0"



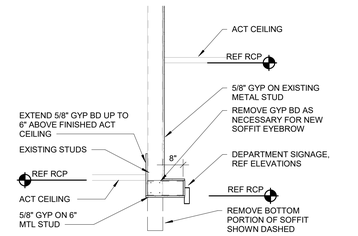
5 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



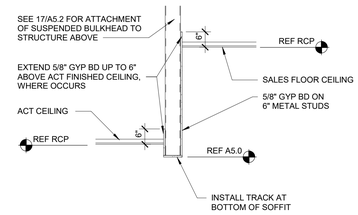
4 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



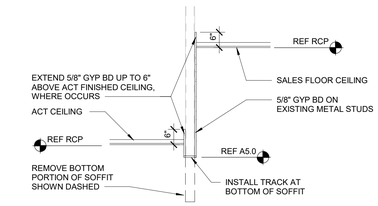
3 SECTION AT SOFFIT

SCALE: 1/2" = 1'-0"



2 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"



1 BULKHEAD SECTION

SCALE: 1/2" = 1'-0"

NOTE: ALL BULKHEAD FRAMING IS TO BE MIN 20 GA U.N.O.

REVISION		DATE BY
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boston
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

04/21/21

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee® EMPLOYEE OWNED

NORTH

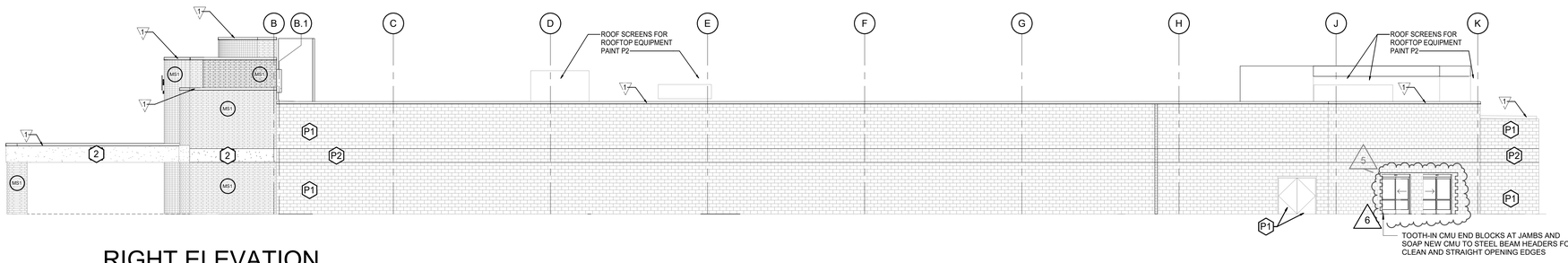
ENLARGED PARTIAL RCP PLANS & CEILING DETAILS

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
SB	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

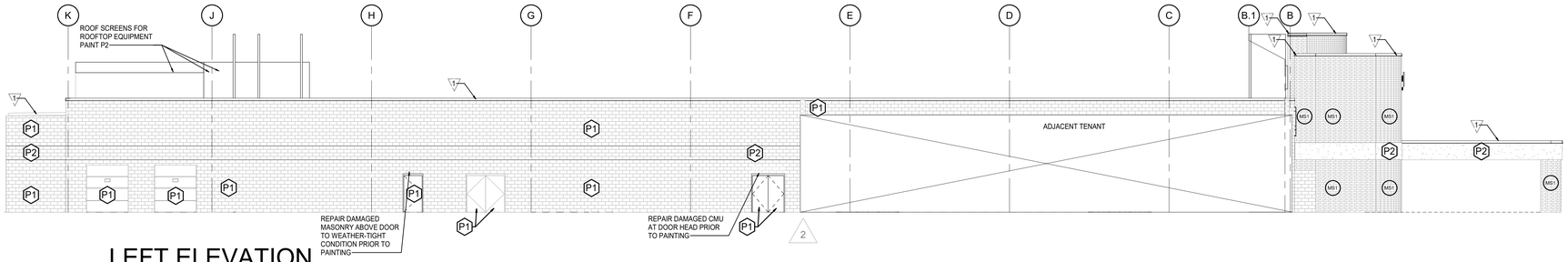
A5.2

4/14/2021 1:28:56 PM



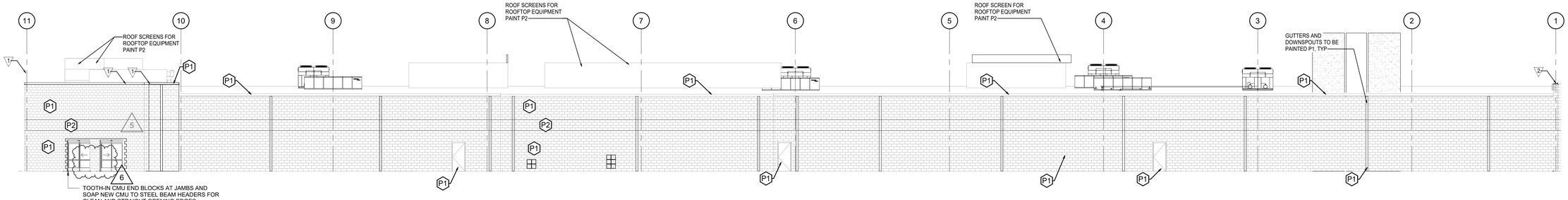
1 RIGHT ELEVATION

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



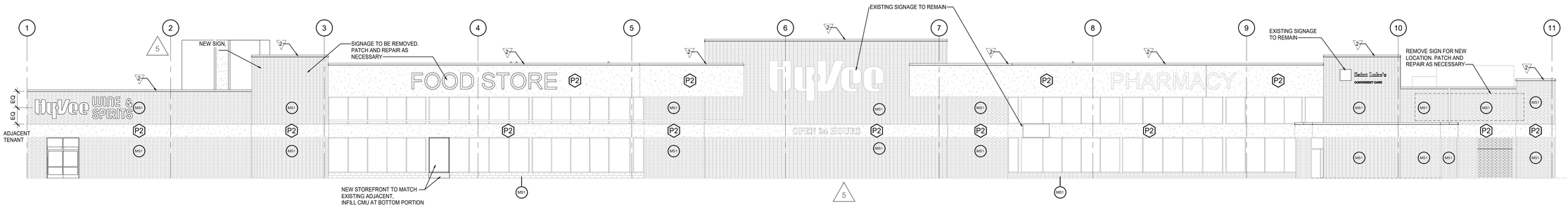
2 LEFT ELEVATION

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



3 REAR ELEVATION

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



4 FRONT ELEVATION

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

MASONRY STAIN COLORS:

MS1 COLOR TO MATCH KANSAS BRICK AND TILE #530 FLASH FACE SET

PAINT COLORS:

P1 MATCH S.W. #7526 "MAISON BLANCHE"

P2 MATCH S.W. #7527 "NANTUCKET DUNE"

P3 MATCH NEW BRICK COLOR - KANSAS BRICK AND TILE #530 FLASH FACE SET

P4 ALL EXISTING STOREFRONT MULLIONS ARE TO BE PAINTED TO MATCH "ANODIZED ALUMINUM" PER SPECS

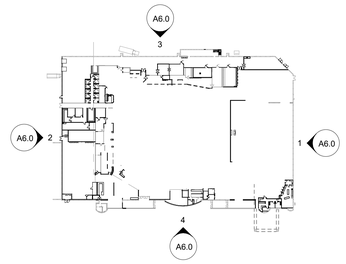
METAL FLASHINGS:

V7 PREFINISHED METAL WALL CAP COLOR TO MATCH S.W. #7526 MAISON BLANCHE

EXTERIOR METAL ASSEMBLIES:

PAINT ALL EXTERIOR PIPE BOLLARDS TO MATCH MAIN BRICK COLOR - P3

TUCKPOINT EXISTING BRICK AS NEEDED. COORDINATE LOCATIONS WITH HY-VEE.



KEY PLAN

SCALE: N.T.S.

REVISION		DATE BY
2	ASI #2	01/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boise
Miami
Los Angeles
Chicago

8131 Metcalf Avenue
Suite 300
Overland Park, KS 66204

Tel: 913-262-9095
Fax: 913-262-9044

PROFESSIONAL SEAL

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, Jr.
Architect
Missouri License No. A-007528

LOCATION
LEE'S SUMMIT, MO #2

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

EXTERIOR ELEVATIONS

PROJECT MANAGER	CHECKED BY:
SB	JPS
DRAWN BY:	DATE:
SB	3/19/2021
SCALE:	JOB NUMBER:
As indicated	62930547

SHEET:

A6.0

4/15/2021 10:45:31 PM

REVISION		DATE BY
2	ASI #2	1/8/21
3	ASI #3	1/22/21
4	ASI #4	2/5/21
5	ASI #5	3/19/21
6	ASI #7	4/21/21

GENERAL SALES

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	GS6	SELF CHECKOUT 3 BAGGER	8	NCR	NCR	3 BAG
NEW	GS7	DUAL SELF CHECK	4	KPI	KPI	
	GS8	MERCHANDISER, BEVERAGE	8	TRUE	TRUE	GDM30
	GS10	SAFE	1	AMERICAN SECURITY	AMERICAN SECURITY	
NEW	GS16	REFRIGERATOR	5	AHT	AHT	AC XL SLIM
	GS19	COOLER	6	TRUE	TRUE	GDM6
NEW	GS20	CASE	1	HUSSMANN	HUSSMANN	IM-05-E-5-H
	GS23	SHELVING MERCHANDISER	2	LOZIER	LOZIER	CUSTOM
	GS28	CASE	2	HUSSMANN	HUSSMANN	IDSSU-12
	GS30	SHELVING 16" SINGLE	19	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 66" HIGH
	GS31	SHELVING 16" DOUBLE	24	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 66" HIGH
	GS40	SHELVING 19" SINGLE	38	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 78" HIGH
NEW	GS42	SHELVING 19" SINGLE	1	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 84" HIGH
	GS43	SHELVING 19" DOUBLE	3	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 84" HIGH
	GS44	SHELVING 19" SINGLE	10	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 84" HIGH
	GS45	SHELVING 19" DOUBLE	35	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 84" HIGH
	GS46	SHELVING 22" SINGLE	13	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 66" HIGH
	GS48	SHELVING 22" SINGLE	6	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 66" HIGH
	GS50	SHELVING 22" SINGLE	1	LOZIER SHELVING	LOZIER SHELVING	3 FOOT 78" HIGH
	GS52	SHELVING 22" SINGLE	10	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 78" HIGH
	GS60	SHELVING 25" SINGLE	13	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 66" HIGH
	GS61	SHELVING 25" DOUBLE	28	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 66" HIGH
	GS65	SHELVING 25" DOUBLE	238	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 72" HIGH
	GS68	SHELVING 25" SINGLE	30	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 78" HIGH
NEW	GS69	SHELVING 25" DOUBLE	7	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 78" HIGH
	GS72	SHELVING 25" SINGLE	1	LOZIER SHELVING	LOZIER SHELVING	4 FOOT 84" HIGH
	GS74	REGISTER SIDE SHELF	8			
	GS75	COOLER SIDE SHELF	8			
	GS76	REGISTER ENDCAP	8			
RELOCATED	GS77	REDBOX KIOSK	1			
EXISTING	GS78	PALLET JACK	1			WP3035
NEW	GS80	PALLET RACK ADD ON	28			
NEW	GS81	RECYCLE BIN	1			
	GS82	ATM	2		NCR CORPORATION	SELF SERVE 6632
	GS87	CASE	7	HUSSMANN	HUSSMANN	IM-05-E-5-R-EC10
	GS90	CASE	2		HUSSMANN	IM-05-I10-R-EC10
NEW	GS91	CASE	4	HUSSMANN	HUSSMANN	
NEW	GS103	CONVERTIBLE CHECKSTAND 54 INCH	2	KPI	KPI	
	GS106	STERILE CART	2	ULTRAGREEN	UZA MANUFACTURING	595000
RELOCATED	GS200	CHECKER, FRONT	6	KPI	KPI	
RELOCATED	GS201	COPIER	1			

EQUIPMENT PLAN GENERAL SALES

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

GENERAL SALES SCHEDULE PAGE 4

REFER TO EQUIPMENT BOOKLET FOR ADDITIONAL INFORMATION

LOCATION:
LEE'S SUMMIT #2 HY-VEE
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

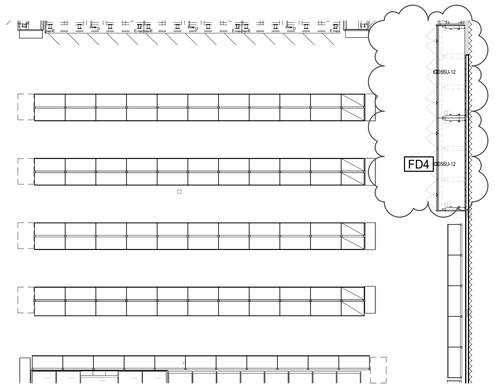
EQUIPMENT PLAN

DRAWN:	DATE:
Author	MAY 2017
SCALE: 3/32" = 1'-0"	JOB NUMBER:

SHEET: EQ1.0

BIM 360://Hy-Vee Lee's Summit #2/Lees Summit 2_Equipment_R20.rvt

REVISION		DATE BY
4	ASI #4	2/5/21
5	ASI #5	3/19/21
6	ASI #7	4/21/21

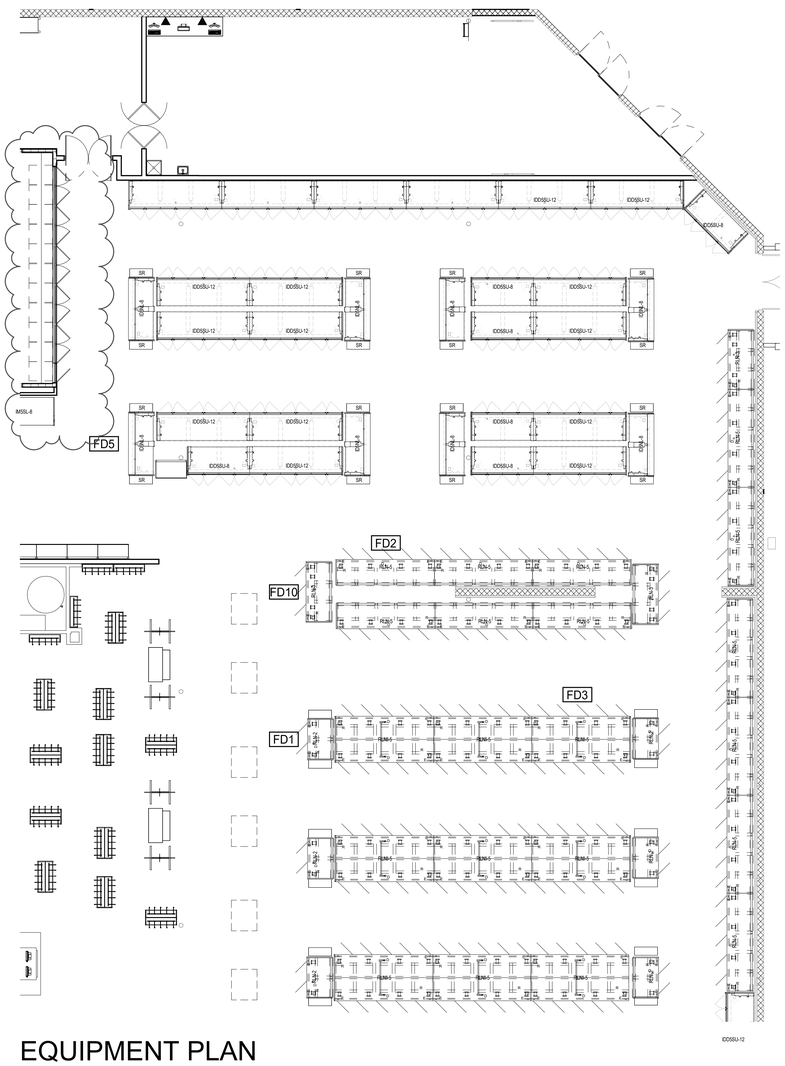


ENLARGED EQUIPMENT PLAN HEALTH MARKET

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

FROZEN/DAIRY

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	FD1	CASE	6	HUSSMANN	HUSSMANN	RLN-2
NEW	FD2	CASE	12	HUSSMANN	HUSSMANN	RLN-5
NEW	FD3	CASE	9	HUSSMANN	HUSSMANN	RLN-5
NEW	FD4	CASE	19	HUSSMANN	HUSSMANN	IDDSSU-12
NEW	FD5	CASE	8	HUSSMANN	HUSSMANN	IDSNL-8
NEW	FD7	CASE	6	HUSSMANN	HUSSMANN	IDDSSU-8
NEW	FD10	CASE	3	HUSSMANN	HUSSMANN	RLN-3
	FD13	MILK MOOVER	11	B-O-F CORP	B-O-F CORP	
	FD100	COOLER - DAIRY	1			
	FD101	COOLER DOORS - DAIRY	1			QUANTITY: 20



EQUIPMENT PLAN FROZEN/DAIRY

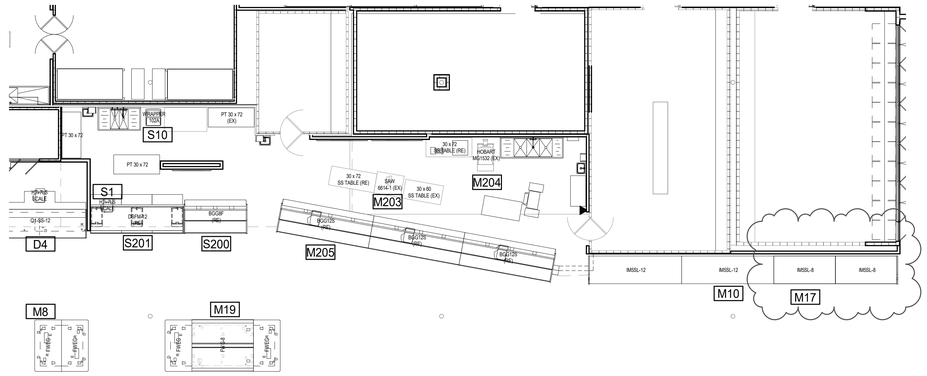
4 SCALE: 1/8" = 1'-0"

SEAFOOD

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	S1	SCALE, WIRELESS	1	HOBART CORPORATION	HOBART	HTI-7LS
	S10	WRAPPER	1	HUSSMANN	HEAT SEAL	102A
	S15	POLY TABLE	2	JOHN BOOS	JOHN BOOS	
	S99	SEAFOOD - SINK	1	JOHN BOOS	JOHN BOOS	2-COMP SINK
RELOCATED	S200	CASE	1	BORGEN	BORGEN	BGQ-8F
	S201	CASE	1	HUSSMANN	HUSSMANN	DSFM-12

MEAT

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	M1	PATTY MACHINE	1	DUPEY	BIRO	F2000
NEW	M2	TENDERIZER	1	HOBART	HOBART	403-1
NEW	M4	WRAP STATION	1		HOBART	HWS-4
NEW	M6	SCALE, WIRELESS	3	HOBART CORPORATION	HOBART	HTI-7LS
NEW	M8	CASE, REFRIG, SS OPEN	4	HUSSMANN	HUSSMANN	FWRG
NEW	M10	CASE,REFRIG,SS OPEN	2	HUSSMANN	HUSSMANN	IMSSL-12
NEW	M17	CASE	2	HUSSMANN	HUSSMANN	IMSSL-8
NEW	M19	CASE	1	HUSSMANN	HUSSMANN	FWG-8
	M99	MEAT - SINK	1	JOHN BOOS	JOHN BOOS	3-COMP SINK
	M100	COOLER - MEAT	1			
	M101	FREEZER - MEAT	1			
EXISTING	M203	MEAT SAW	1	HOBART	HOBART	6614-1
EXISTING	M204	MIXER/GRINDER	1	HOBART	HOBART	MG1532
RELOCATED	M205	CASE	3	BORGEN	BORGEN	BGQ1125

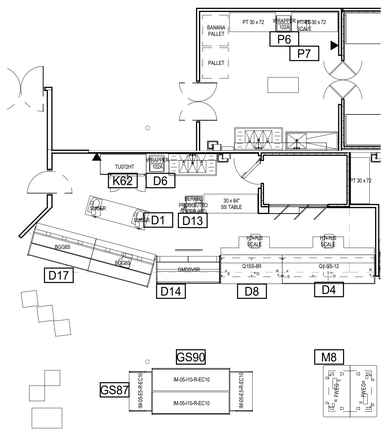


EQUIPMENT PLAN MEAT/SEAFOOD

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

DELI

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	D1	SLICER	2	HOBART CORPORATION	HOBART CORPORATION	2912-1
	D2	SCALE, WIRELESS	3	HOBART CORPORATION	HOBART	HTI-7LS
NEW	D4	CASE	1	HUSSMANN	HUSSMANN	I21-SS-12R
	D6	WRAPPER	1	HUSSMANN	HEAT SEAL	102A
NEW	D8	CASE	1	HUSSMANN	HUSSMAN	I21-SS-8R
	D10	SS TABLE	2	JOHN BOOS	JOHN BOOS	
	D13	SLICER, SEMI AUTO	1	HOBART	BERKEL	330M
NEW	D14	CASE	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	GMDSVSRD
	D17	CASE	2	BORGEN	BORGEN	BGQ8S
	D99	DELI - SINK	1	JOHN BOOS	JOHN BOOS	3-COMP PLATTER SINK
	D100	COOLER - DELI	1			
	D101	COOLER DOORS - DELI	1			QUANTITY: 3

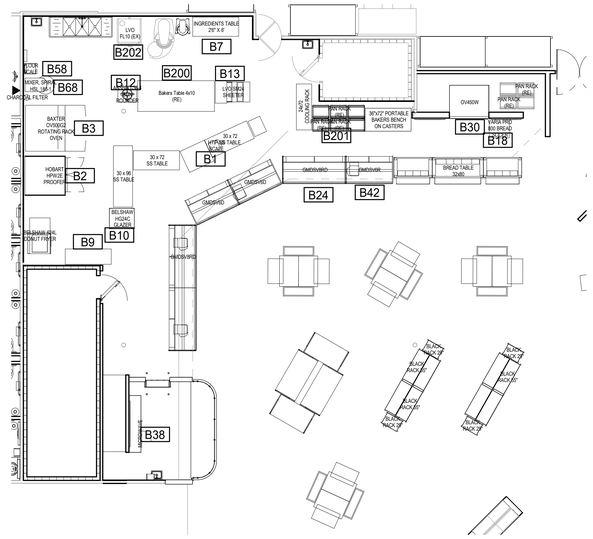


EQUIPMENT PLAN DELI

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

BAKERY

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	B1	SCALE, WIRELESS	5	HOBART CORPORATION	HOBART	
	B2	PROOFER, BAKERY	1	HOBART CORPORATION	BAXTER	HPW2E
	B3	OVEN, BAKERY RACK	1	HOBART CORPORATION	BAXTER	OV500G2
	B7	INGREDIENTS TABLE	1	JOHN BOOS	JOHN BOOS	S14010
NEW	B9	DONUT FRYER	1	HORIZON	BELSHAW	624L
	B10	DONUT GLAZER	1	HORIZON	BELSHAW	HG24C
	B12	ROUNDER, BUN	1	ABS	ABS	ABSBRD-36-4
	B13	SHEETER	1	LVO MFG.	LVO MFG.	SM24
NEW	B15	BREAD TABLE	1	JSI STORE FIXTURES	JSI STORE FIXTURES	32X90
	B18	BREAD SLICER	1	JAC INC.	JAC INC.	VARIA PRO 800
	B20	SS TABLE	2	JOHN BOOS	JOHN BOOS	
NEW	B24	CASE	3	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	GMDSVSRD
NEW	B30	OVEN, BAKERY RACK	1	BAXTER	BAXTER	OV450
NEW	B31	BAKER'S BENCH W/ CASTERS	1	JOHN BOOS	JOHN BOOS	
	B38	MICROWAVE	1	HUSSMANN	AMANA	RCS10
	B40	BLACK RACK	4	JSI	JSI	29" BLACK RACK
	B41	BLACK RACK	8	JSI	JSI	55" BLACK RACL
NEW	B42	CASE	3	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	
NEW	B58	FLOOR FLOUR SCALE	1			DS 520
NEW	B59	CHUTE SLICER	1	JAC	JAC	CHUTE 450 SLICER
NEW	B68	SPIRAL MIXER	1	HOBART	HOBART	HSL 160-1
	B98	BAKERY - POT FILLER	1	JOHN BOOS	JOHN BOOS	POT FILLER
	B99	BAKERY - SINK	1	JOHN BOOS	JOHN BOOS	3-COMP SINK
	B101	FREEZER - BAKERY	1			
RELOCATED	B200	TABLE 4' X 10'	1	JOHN BOOS	JOHN BOOS	SBO-S14/BKSC270
	B201	PAN RACKS	10	SPG	SPG	APRD18-3
EXISTING	B202	PAN WASHER	1	LVO MFG.	LVO MFG.	FLT/E
	B203	MIXER	1	HOBART	HOBART	HL1400-1



EQUIPMENT PLAN BAKERY

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

REFER TO EQUIPMENT BOOKLET FOR ADDITIONAL INFORMATION

LOCATION:
LEE'S SUMMIT #2 HY-VEE
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ENLARGED EQUIPMENT PLAN

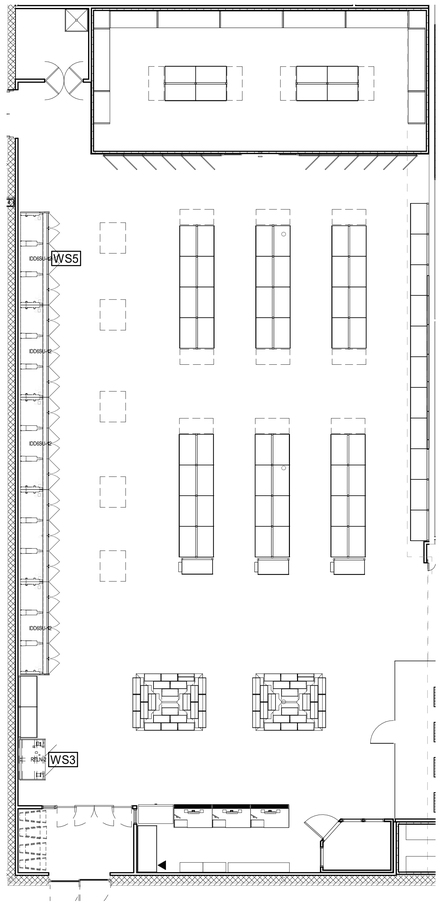
DRAWN:	DATE:
Author	MAY 2017
SCALE: 1/8" = 1'-0"	JOB NUMBER:

SHEET: EQ1.1

BIM 360://Hy-Vee Lee's Summit #2/Lees Summit 2_Equipment P20.rvt

WINE & SPIRITS

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	WS1	FREEZER	1	TRUE	TRUE	GDM-49F
NEW	WS3	CASE	1	HUSSMANN	HUSSMANN	RFLN-2
NEW	WS5	CASE	5	HUSSMANN	HUSSMANN	IDS6SU-12
NEW	WS15	KPI DAISY CHAIN - LEFT	3	KPI	KPI	
NEW	WS16	KPI 90DEG COMPUTER CABINET	1	KPI	KPI	72" LENGTH
	WS100	COOLER - BEER	1			
	WS101	COOLER DOORS - BEER	1			QUANTITY: 13

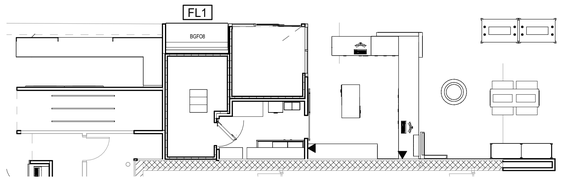


6 EQUIPMENT PLAN WINE AND SPIRITS

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

FLORAL

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	FL	FLORAL	1			
NEW	FL1	CASE	1	BORGEN	BORGEN	BGFG-8
	FL100	COOLER - FLORAL	1			
	FL101	COOLER - FLORAL DISPLAY	1			

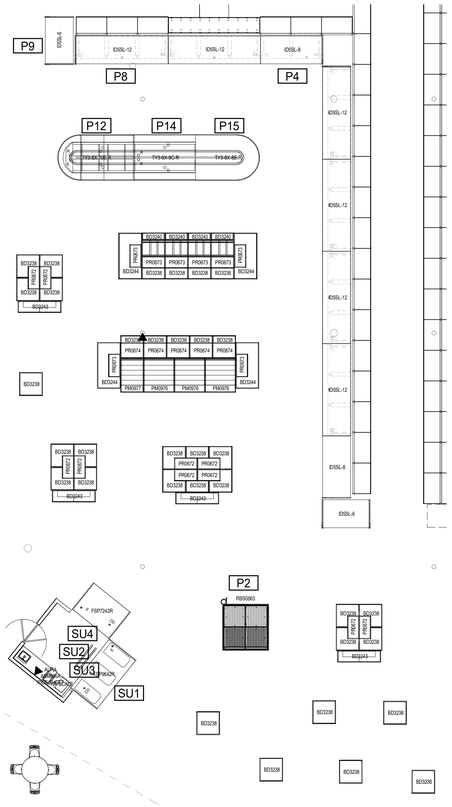


5 EQUIPMENT PLAN FLORAL

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

PRODUCE

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	P2	CASE	1	JSI	JSI	RBS0663
	P3	POLY TABLE	2	JOHN BOOS	JOHN BOOS	
	P4	CASE	2	HUSSMANN	HUSSMANN	IDSSL-8
	P6	WRAPPER	1	HUSSMANN	HEAT SEAL	102A
	P7	SCALE, WIRELESS	1	HOBART CORPORATION	HOBART	HTI-LS
NEW	P8	CASE	6	HUSSMANN	HUSSMANN	IDSSL-12
NEW	P9	CASE	2	HUSSMANN	HUSSMANN	IDSSL-6
NEW	P12	CASE	1	HUSSMANN	HUSSMANN	TY3-6X-10E-R
NEW	P14	CASE	1	HUSSMANN	HUSSMANN	TY3-6X-6C-R
NEW	P15	CASE	1	HUSSMANN	HUSSMANN	TY3-6X-8E-R
NEW	P16	PRODUCE BIN	4	JSI	JSI	BD3243
NEW	P17	PRODUCE BIN	34	JSI	JSI	BD3238
NEW	P18	PRODUCE BIN	5	JSI	JSI	PR0674
NEW	P19	PRODUCE BIN	10	JSI	JSI	PR0672
NEW	P23	PRODUCE BIN	4	JSI	JSI	BD3244
NEW	P24	PRODUCE BIN	8	JSI	JSI	PR0673
NEW	P25	PRODUCE BIN	4	JSI	JSI	BD3240
NEW	P27	PRODUCE BIN	3	JSI	JSI	PM0676
	P98	PRODUCE - SINK	1	JOHN BOOS	JOHN BOOS	1 COMP SINK W/ DRAINBOARD
	P99	PRODUCE - PLATTER SINK	1	JOHN BOOS	JOHN BOOS	3-COMP SINK
	P100	COOLER - PRODUCE	1			



3 EQUIPMENT PLAN PRODUCE

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

SUSHI

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	SU1	SUSHI, PREP	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	FSP9642R
NEW	SU2	RICE SHEET	1	GLOBAL TRELLION	AUTEC	ASM866A
	SU3	SCALE, WIRELESS	1	HOBART CORPORATION	HOBART	HTI-7S
	SU4	SUSHI, PREP	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	FSP7242R

ASIAN

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	A3	4 HOLE WOK	1	HUSSMANN	TOWN	
	A5	BL RICE WARMER	2	WASSERSTROM	ZOJIRSHI	THA-8035
	A8	TABLE, PREP	1	TRAULSEN	TRAULSEN	TS096HT
	A11	SS TABLE	1	JOHN BOOS	JOHN BOOS	
NEW	A12	TABLE, PREP	1	TRAULSEN	TRAULSEN	TS048HT
NEW	A13	TABLE, PREP	1	TRAULSEN	TRAULSEN	TS096HT
NEW	A15	CASE, HOT, SERVE	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	15" SC ASIAN

MIA PIZZA

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	MP1	OVEN, DECK	1	DUPEY EQUIPMENT COMPANY	WOODSTONE	FO-8645-RFG-L-IR
	MP2	SS TABLE	1	JOHN BOOS	JOHN BOOS	
NEW	MP4	DOUGH PRESS W/STAND	1	DUPEY	XPRESS	DXM
NEW	MP5	COLD COUNTER	2	SHELLEY STEEL	SHELLEY STEEL	SCSC-50
	MP6	LOWERATOR	1	WASSERSTRUM	LAKESIDE	61110
	MP7	SS TABLE	1	JOHN BOOS	JOHN BOOS	
RELOCATED	MP9	30 QT FLOOR MIXER	1		GLOBE FOOD EQUIP. COMPANY	SP30P

C-STORE

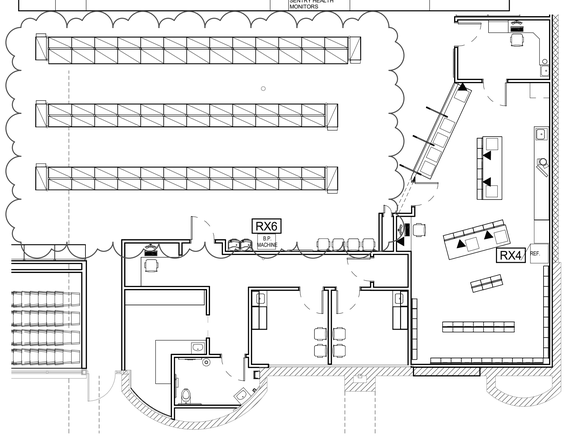
Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
RELOCATED	CS6	CAPPUCINO 5 HEAD	1		INTERNATIONAL	37300-0023
RELOCATED	CS11	ICE MACHINE, CUBER	1	D&J BEVERAGE	CORNELIUS	CIMW36HW
RELOCATED	CS12	ICE MACHINE	1	HUSSMANN	HUSSMANN	WCC-700

KITCHEN

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	K1	OIL MANAGEMENT	1	RTI	RTI	BI-2W
	K4	SCALE, WIRELESS	1	HOBART CORPORATION	HOBART	HTI-7LS
	K10	TOASTER, CONVEYOR	1	HATCO	HATCO	TQ-800
	K13	SALAD BAR	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	FB10-SS-7R
	K15	COFFEE BREWERS	1	WILBUR CURTIS	WILBUR CURTIS	TP1ST
NEW	K16	HEAT RAIL	1	HATCO	HATCO	GRAH-36
	K17	SS TABLE	2	JOHN BOOS	JOHN BOOS	
	K22	SS TABLE	3	JOHN BOOS	JOHN BOOS	
NEW	K23	DISHWASHER	1	HOBART CORPORATION	HOBART	AM15
NEW	K26	FRYER	1	HORBART CORPORATION	HOBART	1HG85
	K29	BAG IN A BOX	2			
NEW	K34	HOLDING CABINET	1	HUSSMANN	CRESCOR	121-PH181BD
	K42	UNDERCOUNTER	1	HOBART	TRAULSEN	TEO72HT
	K45	CASE	1	HUSSMANN	HUSSMANN	ESGMS-12
NEW	K51	MONGOLIAN RANGE	1	HUSSMANN	TOWN	MBR-42
NEW	K52	FREEZER	1	TRAULSEN	TRAULSEN	G12010
	K53	SS TABLE	1	JOHN BOOS	JOHN BOOS	
NEW	K56	CASE, HOT	1	TRI-CITY	HENNY PENNY	HMR-107F
RELOCATED	K60	UNDERCOUNTER	1	HOBART CORPORATION	TRAULSEN	TEI96HT
NEW	K62	UNDERCOUNTER FRIDGE	1	HOBART CORPORATION	TRAULSEN	TUO72HT
NEW	K65	GRIDDLE	1	HOBART CORPORATION	VULCAN	972
	K69	CO2	1			CO2
NEW	K96	ROTISSERIE	1	DUPEY	ALTO-SHAAM	AR-6G
	K97	KITCHEN - CULINARY TABLE	1	JOHN BOOS	JOHN BOOS	CULINARY TABLE
	K98	KITCHEN - DISH TABLE	1	JOHN BOOS	JOHN BOOS	CUSTOM DISH TABLE
	K99	KITCHEN - SINK	1	JOHN BOOS	JOHN BOOS	4-COMP SINK
	K100	COOLER - KITCHEN	1			
	K101	FREEZER - KITCHEN	1			
NEW	K114	CASE	1	HUSSMANN	HUSSMANN	IM-05-IB-H
NEW	K135	DISPENSER	1	FRESHLY SQUEEZED	SENCOTEL	120
NEW	K136	JUICER	1	FRESHLY SQUEEZED	ZUMO	Z40
	K149	8 HEAD SODA	2	PEPSI	CORNELIUS	255-RENEW
	K200	TABLE, PREP	1	TRAULSEN	TRAULSEN	UPT-4812
NEW	K202	CHARBROILER	1	HOBART	VULCAN	VCCB25
EXISTING	K203	OVEN, COMBI, STACK	1	HOBART CORPORATION	VULCAN	SG44D
	K204	SMOKER	1	DUPEY EQUIPMENT COMPANY	SOUTHERN PRIDE	SC-2005M
	K205	FRYERS	4			HP500
	K206	SCALE, WIRELESS	2	HOBART CORPORATION	HOBART	HTIFLS
EXISTING	K207	ICE MACHINE COMBO	1	HUSSMANN	CORNELIUS	CCM1030
NEW	K208	DRAINBOARD	3	GLASTENDER	GLASTENDER	DBGR 24-RS
	K209	4 COMP SINK	1	GLASTENDER	GLASTENDER	FSB-4IB_S
RELOCATED	K210	WASTE CHUTE	1	GLASTENDER	GLASTENDER	DWB-12
RELOCATED	K211	SINK	1	GLASTENDER	GLASTENDER	DHSB-12
RELOCATED	K212	LIQUOR DISPLAY	1	GLASTENDER	GLASTENDER	LDA-24

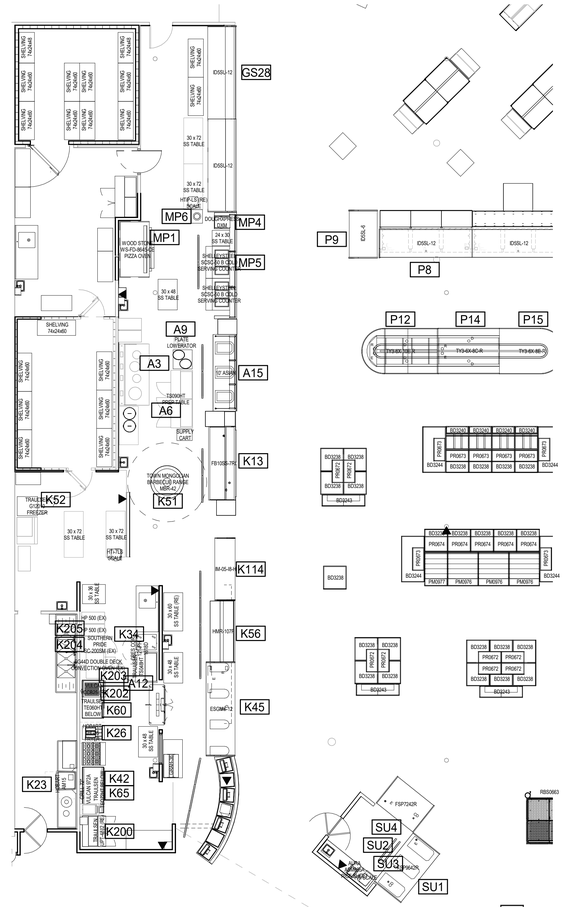
PHARMACY

Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	RX3	SHELVES	40	LOZIER	LOZIER	FLEXRX
NEW	RX4	REFRIGERATOR	1	NEBRASKA FURNITURE MART	AMANA	ABB2221FEW
NEW	RX6	BLOOD PRESSURE MACHINE	1	LIFECLINC AKA SENTRY HEALTH MONITORS	SENTRY HEALTH MONITORS	LC300



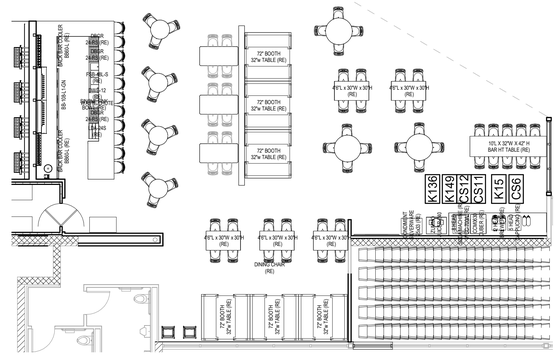
2 EQUIPMENT PLAN PHARMACY

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

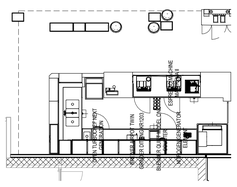


1 ENLARGED EQUIPMENT PLAN KITCHEN/ITALIAN/ASIAN/SUSHI

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



REFER TO EQUIPMENT BOOKLET FOR ADDITIONAL INFORMATION



4 EQUIPMENT PLAN COFFEE

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

REVISION	DATE BY
2 ASI #2	1/8/21
3 ASI #3	1/22/21
4 ASI #4	2/5/21
6 ASI #7	4/21/21

LOCATION:
LEE'S SUMMIT #2 HY-VEE
LEE'S SUMMIT, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

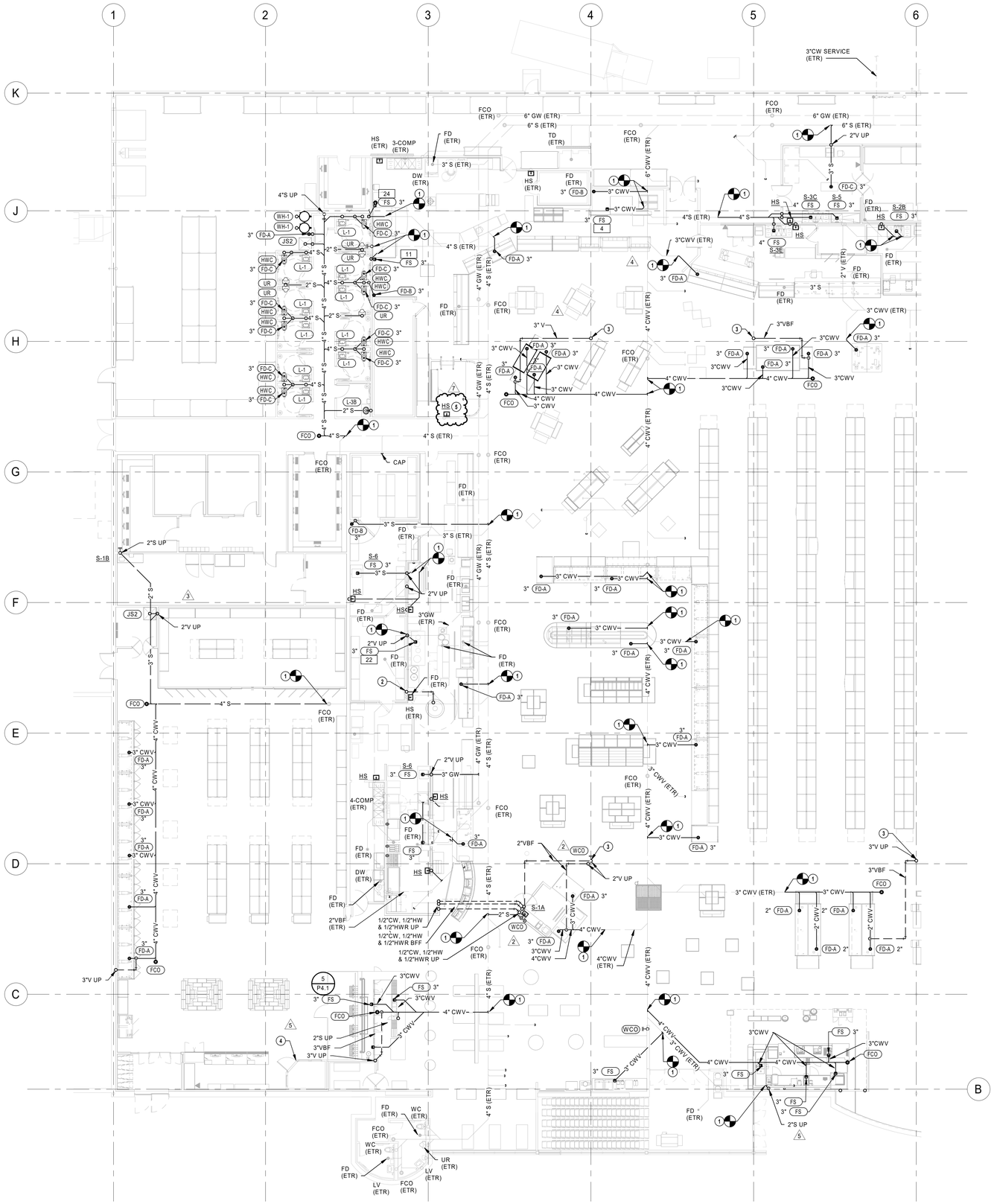
NORTH PLAN NORTH

ENLARGED EQUIPMENT PLAN

DRAWN:	DATE:
Author	MAY 2017
SCALE: 1/8" = 1'-0"	JOB NUMBER:

SHEET: EQ1.2

BIM 360://Hy-Vee Lee's Summit #2/Lees Summit 2_Equipment P20.rvt



1 UNDERFLOOR PLUMBING PLAN - A
3/32" = 1'-0"

PLUMBING GENERAL NOTES

1. FURNISH AND INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES.
2. ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS OUTLETS AND BRANCH SANITARY ARE 3" UNLESS NOTED OTHERWISE.
3. ALL FLOOR CLEANOUTS ARE TO BE ACCESSIBLE AND NOT BENEATH MILLWORK, CASEWORK, SHELVES OTHER OBSTRUCTIONS. CLEANOUTS SHALL BE THE SAME SIZE AS PIPING BEING SERVED AND AT THE TRANSITION OF PIPE SIZE.
4. COORDINATE UNDERFLOOR PIPING ROUTING WITH REFRIGERATION AND ELECTRCIAL CONTRACTORS.

PLUMBING PLAN NOTES

1. CONNECT NEW SANITARY/GREASE WASTE PIPING INTO EXISTING PIPING. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT PRIOR TO START OF WORK.
2. ROUTE 1"G PIPE UNDERFLOOR IN 4" CONDUIT.
3. ROUTE VENT PIPING TIGHT TO COLUMN.
4. ROUTE DRAIN LINE OUT OF HUMIDOR AND THRU WALL NEXT TO BAR COOLER TO FLOOR SINK BELOW BACK BAR AND INDIRECT WASTE WITH AIR GAP.
5. CONNECT NEW HAND SINK TO EXISTING WASTE AND VENT PIPING WITHIN WALL AS FIELD CONDITIONS REQUIRE.

REVISION		DATE BY
2	ASI #2	01/07/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee®
EMPLOYEE OWNED

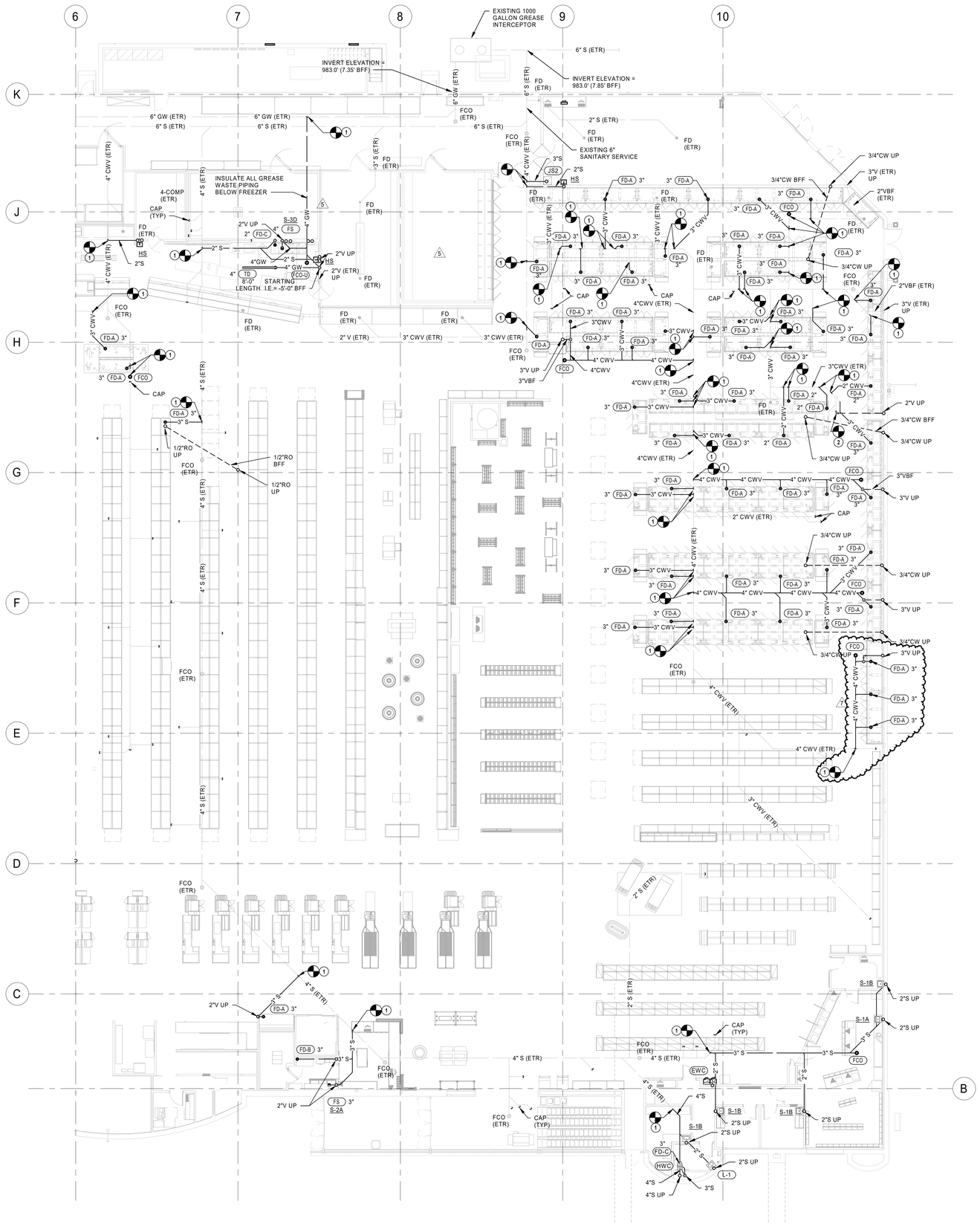
NORTH PLAN NORTH

UNDERFLOOR PLUMBING PLAN - A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
P1.0A

JOSHUA N. HOVER
4/21/2021 9:47:07 AM



1 UNDERFLOOR PLUMBING PLAN - B
3/32" = 1'-0"

PLUMBING GENERAL NOTES

1. FURNISH AND INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES.
2. ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS OUTLETS AND BRANCH SANITARY ARE 3" UNLESS NOTED OTHERWISE.
3. ALL FLOOR CLEANOUTS ARE TO BE ACCESSIBLE AND NOT BENEATH MILLWORK, CASEWORK, SHELVES OTHER OBSTRUCTIONS. CLEANOUTS SHALL BE THE SAME SIZE AS PIPING BEING SERVED AND AT THE TRANSITION OF PIPE SIZE.
4. COORDINATE UNDERFLOOR PIPING ROUTING WITH REFRIGERATION AND ELECTRCIAL CONTRACTORS.

PLUMBING PLAN NOTES

1 CONNECT NEW SANITARY/GREASE WASTE PIPING INTO EXISTING PIPING. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT PRIOR TO START OF WORK.
2 CONNECT NEW VENT PIPING TO EXISTING VENT PIPING AS FIELD CONDITIONS REQUIRE. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO START OF WORK.

REVISION		DATE BY
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI · JOSHUA N. HOVER · NUMBER PE-2017008503 · PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

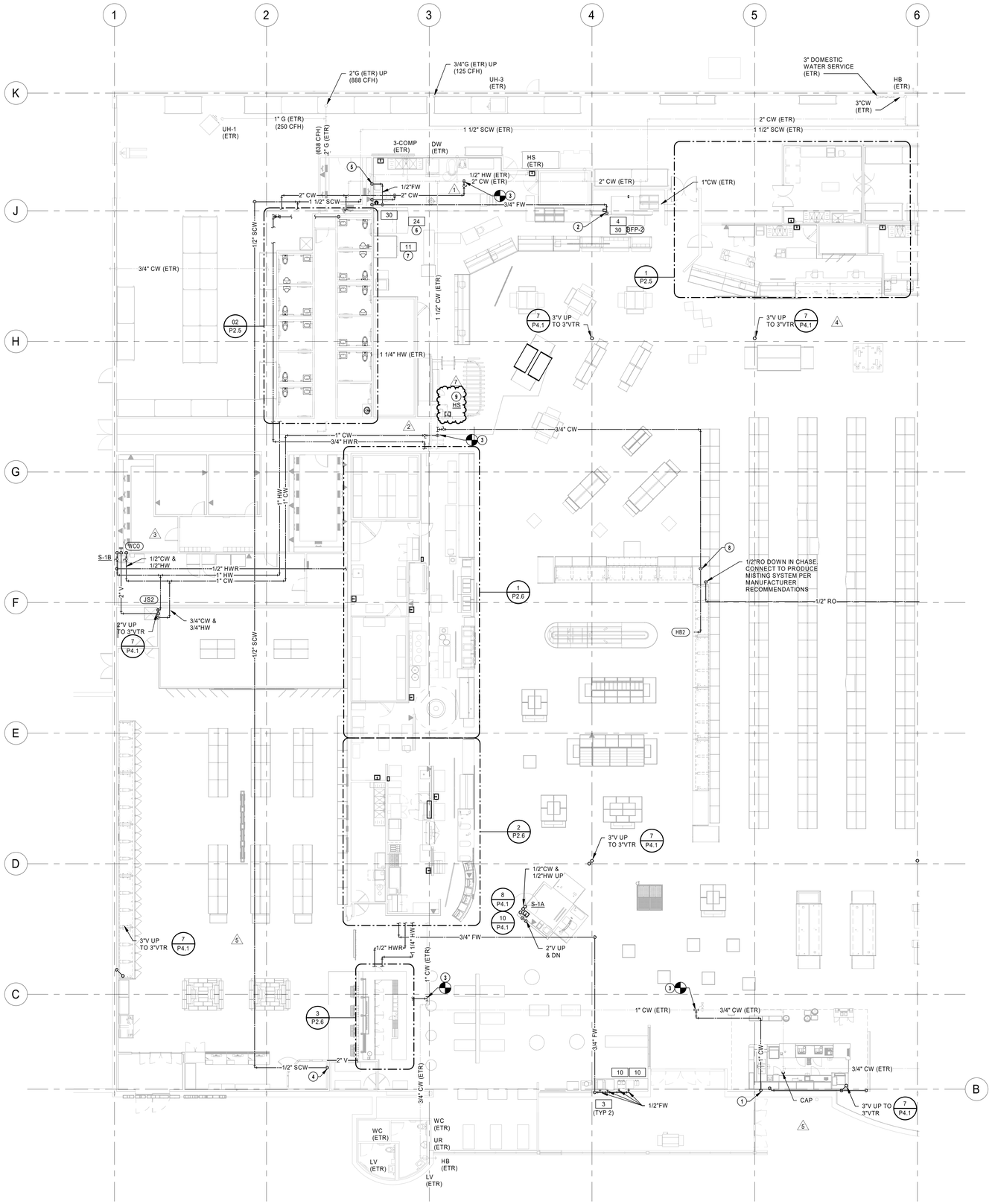
NORTH PLAN NORTH

UNDERFLOOR PLUMBING PLAN - B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
P1.0B

JOSHUA N. HOVER
4/21/2021 9:47:46 AM



1 PLUMBING FLOOR PLAN - A
3/32" = 1'-0"

PLUMBING GENERAL NOTES

1. FURNISH AND INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES.
2. ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS OUTLETS AND BRANCH SANITARY ARE 3" UNLESS NOTED OTHERWISE.
3. ALL FLOOR CLEANOUTS ARE TO BE ACCESSIBLE AND NOT BENEATH MILLWORK, CASEWORK, SHELVES OTHER OBSTRUCTIONS. CLEANOUTS SHALL BE THE SAME SIZE AS PIPING BEING SERVED AND AT THE TRANSITION OF PIPE SIZE.
4. COORDINATE UNDERFLOOR PIPING ROUTING WITH REFRIGERATION AND ELECTRCIAL CONTRACTORS.
5. ROUTE BRANCH PIPING 12" ABOVE THE ACCESSIBLE CEILING.

PLUMBING PLAN NOTES

1. 1"CW DOWN IN WALL TO STARBUCKS KIOSK. ROUTE IN WALL TO EACH FIXTURE AND CONNECT PER STARBUCKS STANDARDS.
2. ROUTE 3/4" FW DOWN IN WALL AND CONNECT TO OVEN. PROVIDE FLEXIBLE COPPER TUBING FROM WALL TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. PROVIDE ESCUTCHEON AT WALL.
3. CONNECT NEW DOMESTIC WATER PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
4. 1/2"SCW DOWN. CONNECT 1/2"CW TO HUMIDOR PER MANUFACTURER'S RECOMMENDATIONS.
5. ROUTE 1/2"FW TO BAKERY WATER METER AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
6. CONNECT NEW BAKERY OVEN TO EXISTING WATER AND GAS PIPING AS FIELD CONDITIONS REQUIRE AND PER MANUFACTURER'S RECOMMENDATIONS.
7. CONNECT NEW PROOFER TO EXISTING WATER PIPING AS FIELD CONDITIONS REQUIRE AND PER MANUFACTURER'S RECOMMENDATIONS.
8. ROUTE CW PIPING ON TOP OF CASE. INSTALL AND SECURELY FASTEN HB2 IN CENTER OF CASE ARRANGEMENT.
9. CONNECT NEW HAND SINK TO EXISTING COLD WATER AND HOT WATER STUB-OUTS AS FIELD CONDITIONS REQUIRE.

REVISION		DATE BY
1	ASI #1	11/13/20
2	ASI #2	01/07/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

hyvee® EMPLOYEE OWNED

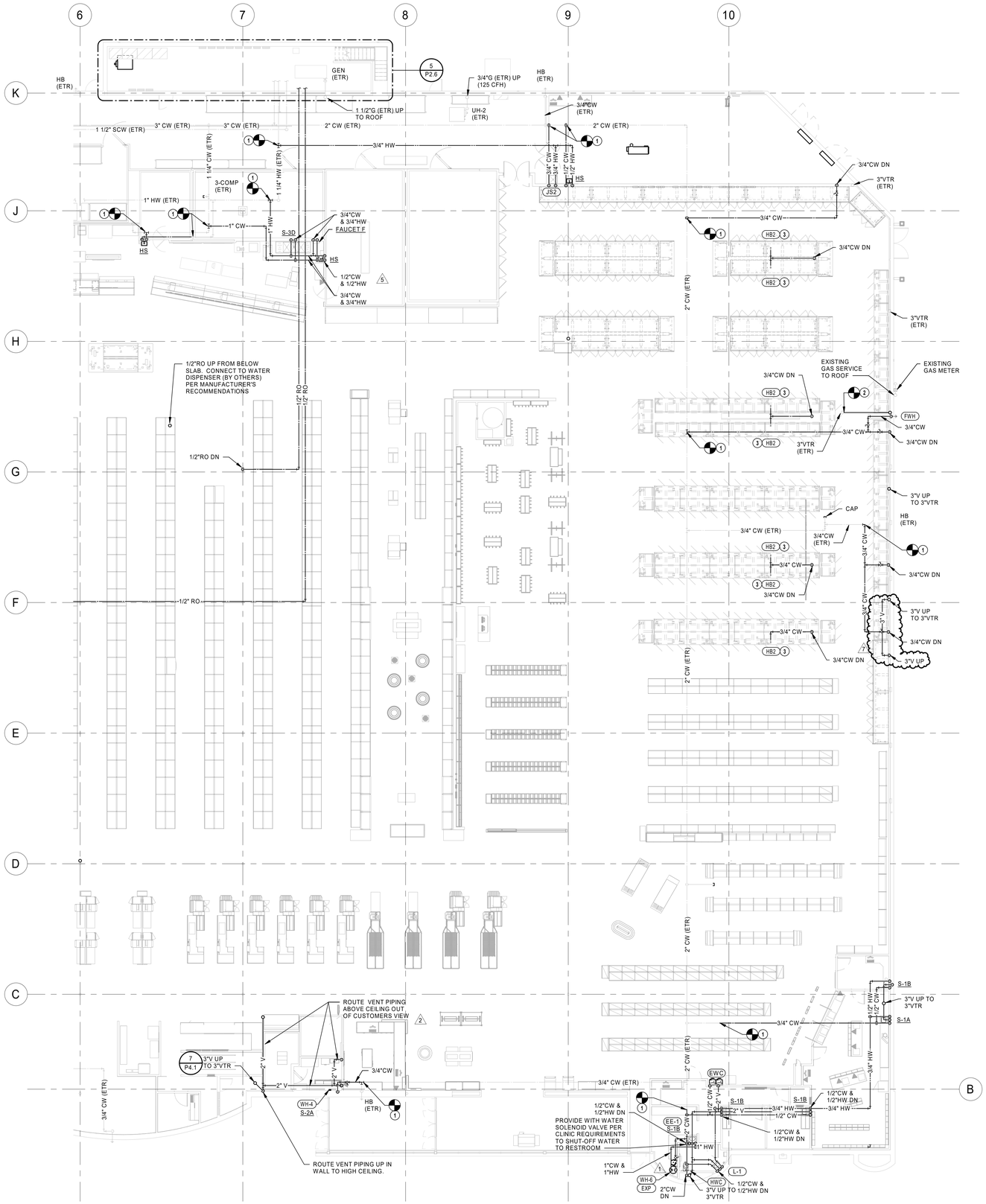
NORTH PLAN NORTH

PLUMBING FLOOR PLAN - A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
P2.0A

JOSHUA N. HOVER
4/21/2021 9:48:04 AM



1 PLUMBING FLOOR PLAN - B
3/32" = 1'-0"

PLUMBING GENERAL NOTES

1. FURNISH AND INSTALL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES.
2. ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS OUTLETS AND BRANCH SANITARY ARE 3" UNLESS NOTED OTHERWISE.
3. ALL FLOOR CLEANOUTS ARE TO BE ACCESSIBLE AND NOT BENEATH MILLWORK, CASEWORK, SHELVES OTHER OBSTRUCTIONS. CLEANOUTS SHALL BE THE SAME SIZE AS PIPING BEING SERVED AND AT THE TRANSITION OF PIPE SIZE.
4. COORDINATE UNDERFLOOR PIPING ROUTING WITH REFRIGERATION AND ELECTRCIAL CONTRACTORS.
5. ROUTE BRANCH PIPING 12" ABOVE THE ACCESSIBLE CEILING.

PLUMBING PLAN NOTES

1 CONNECT NEW DOMESTIC WATER PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
2 CONNECT NEW VENT PIPING INTO EXISTING VTR. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
3 ROUTE CW PIPING ON TOP OF CASE. INSTALL AND SECURELY FASTEN HB2 IN CENTER OF CASE ARRANGEMENT.

REVISION		DATE BY
1	ASI #1	11/13/20
2	ASI #2	01/07/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

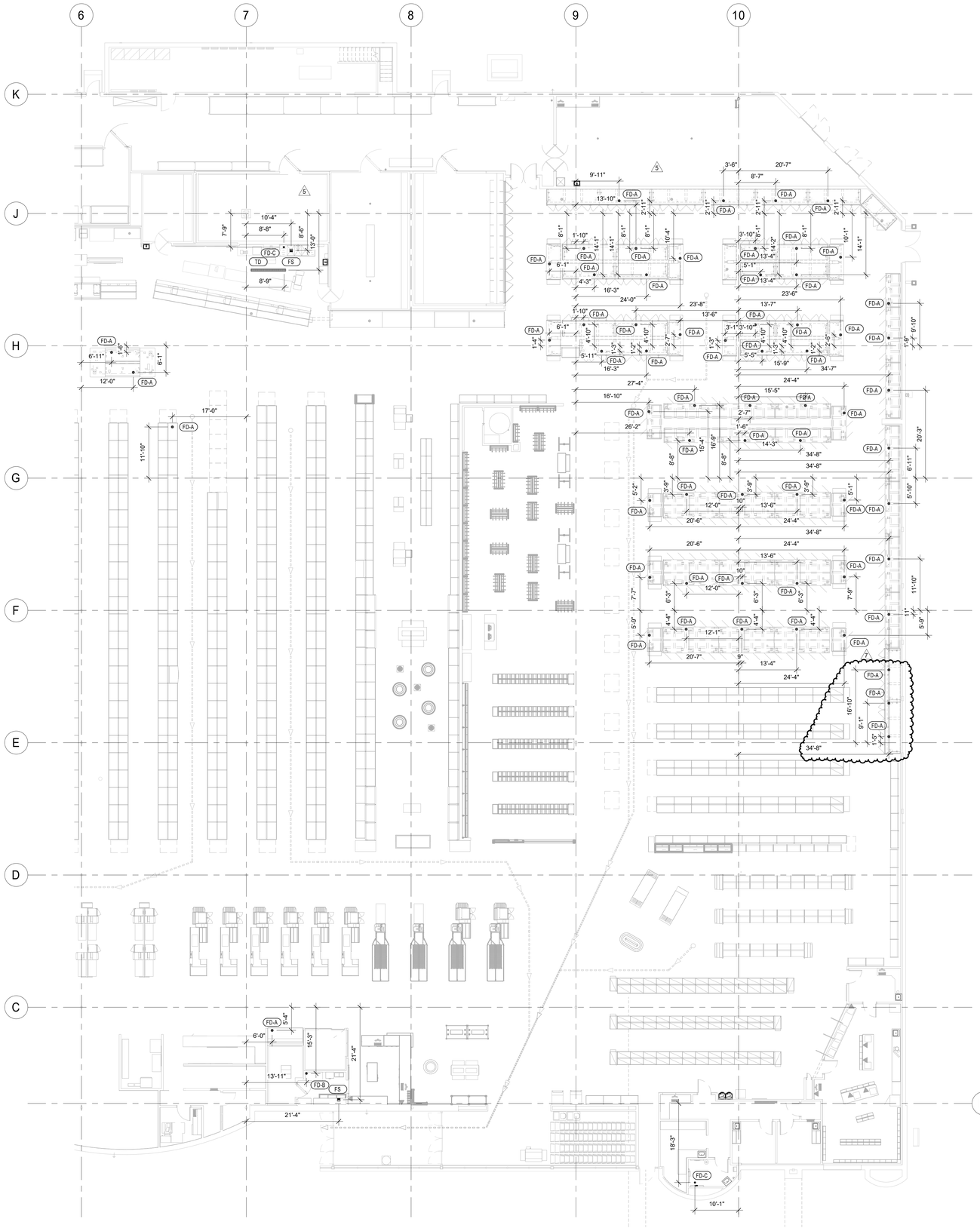
NORTH PLAN NORTH

PLUMBING FLOOR PLAN - B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
P2.0B

JOSHUA N. HOVER
4/21/2021 9:47:25 AM



1 PLUMBING STUBUP PLAN - B
3/32" = 1'-0"

REVISION		DATE BY
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

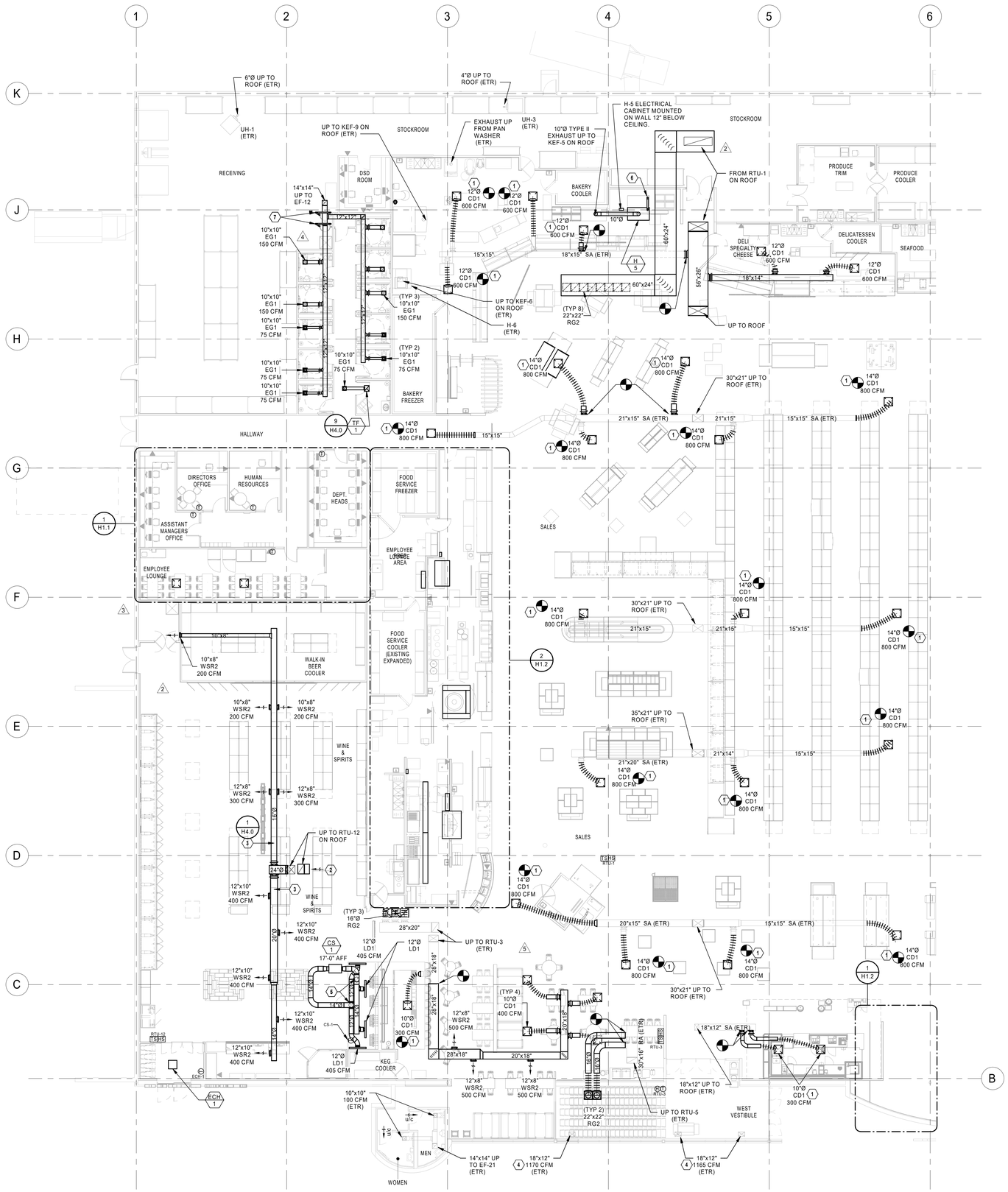
NORTH PLAN NORTH

PLUMBING
STUB-UP PLAN - B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
PE1.0B

JOSHUA N. HOVER
4/21/2021 9:48:21 AM



1 HVAC FLOOR PLAN - A
3/32" = 1'-0"

GENERAL NOTES:

1. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH RTU CONNECTION SIZES.
2. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH EXHAUST FAN CONNECTION SIZES.
3. ROUTE EXPOSED DUCTWORK TIGHT TO STRUCTURE EXCEPT WHERE NOTED ON PLAN. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
4. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
5. INSTALLED LINED RETURN AIR BOOT ON TRANSFER AIR GRILLES LOCATED IN PUBLIC VIEW. BOOT SHALL BE FULL SIZE OF GRILLE OPENING.
6. NO DUCTWORK MAY BE SUPPORTED FROM THE ROOF DECK. REFER TO SPECIFICATIONS FOR HANGER REQUIREMENTS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND ELEVATIONS.
8. REFER TO H4.0 FOR ALL DETAILS.

MECHANICAL PLAN NOTES

1. PROVIDE NEW DIFFUSER COORDINATED IN NEW CEILING GRID. CONNECT DIFFUSER TO EXISTING DUCTWORK
2. PROVIDE FULL SIZE RETURN DUCT DOWN AND ELBOW 36" HORIZONTAL FROM UNIT TIGHT TO STRUCTURE WITH DUCT LINER FOR SOUND ATTENUATION AND 3/4" WIRE MESH SCREEN ON INLET.
3. ROUTE DUCT LEVEL AND TIGHT TO STRUCTURE.
4. BALANCE EXISTING REGISTER TO NEW CFM SHOWN.
5. ROUTE DUCT DOWN TIGHT TO CEILING BELOW.
6. PROVIDE 3" STAINLESS STEEL STEAM VENT, DISCHARGE UNDER HOOD.
7. PROVIDE COMBINATION CONCENTRIC INTAKE VENT AND EXHAUST FLUE FROM UNIT UP THROUGH ROOF AND TERMINATE WITH SAME MANUFACTURER'S TERMINATION KIT IN COMPLIANCE WITH LOCAL CODE AND MINIMUM 10'-0" SEPARATION FROM ALL AIR INTAKES. REFER TO SPECIFICATIONS AND MFR. REQUIREMENTS FOR APPROVED FLUE AND INTAKE MATERIALS FOR UNIT OPERATING TEMPERATURE.

7 **NOTE:**
ALL DUCTWORK/DAMPERS/TAPS SHOWN ON SALES FLOOR ARE EXISTING TO REMAIN. REPLACE EXISTING DIFFUSERS AS SHOWN. DUCT SIZES SHOWN ARE MINIMUM. CONTRACTOR SHALL FIELD VERIFY SIZES AND NOTIFY ENGINEER IF INSUFFICIENT.

REVISED LOCATIONS OF ALL CEILING DIFFUSERS ON SALES FLOOR TO FIT WITH-IN EXISTING CEILING GRID.

REVISION		DATE BY
2	ASI #2	01/07/21
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

hyvee EMPLOYEE OWNED

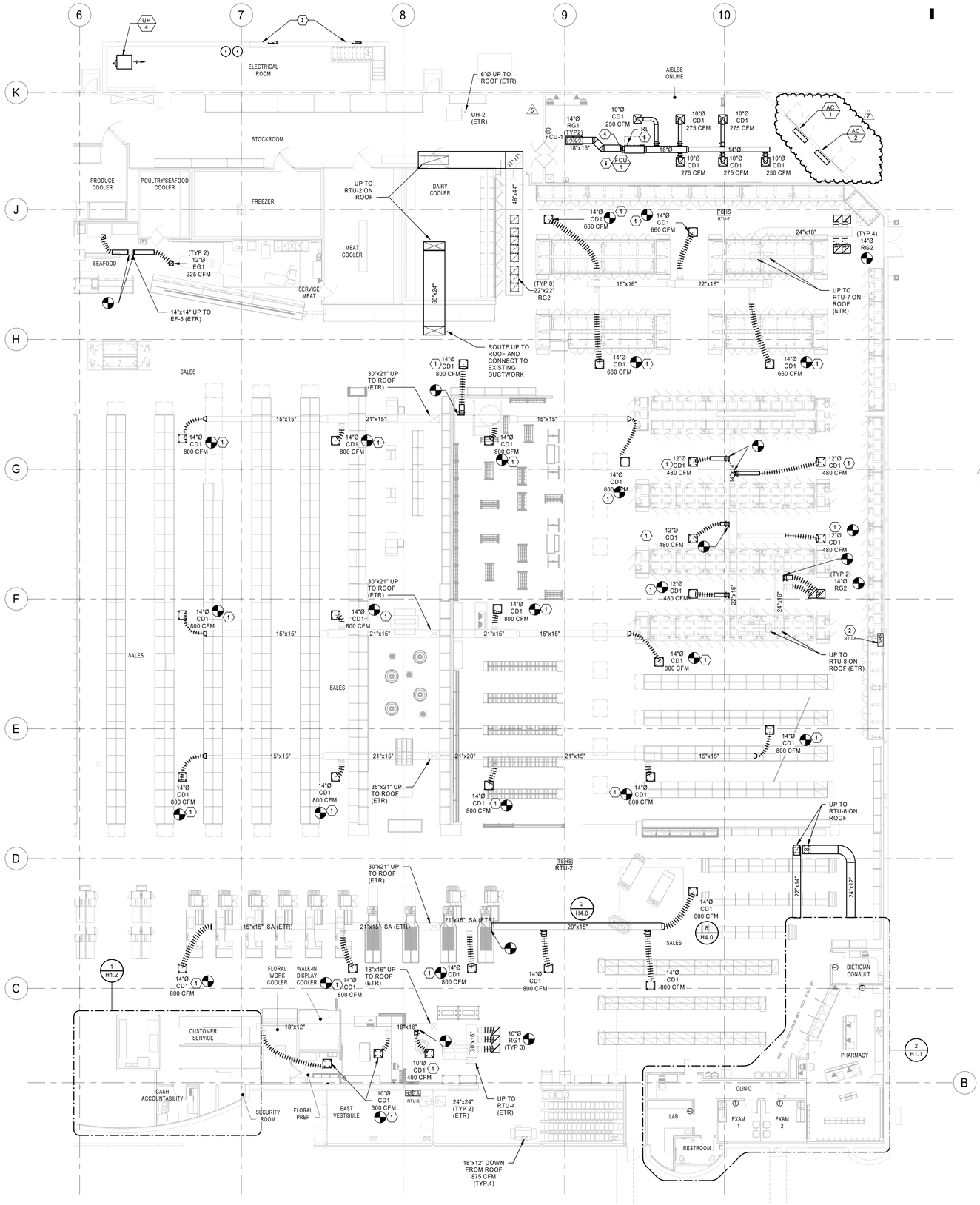
NORTH PLAN NORTH

HVAC FLOOR PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	Checker
DRAWN BY:	DATE:
MLJ	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
H1.0A

4/21/2021 10:07:50 AM
JOSHUA N. HOVER



1 HVAC FLOOR PLAN - B
3/32" = 1'-0"

GENERAL NOTES:

1. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH RTU CONNECTION SIZES.
2. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH EXHAUST FAN CONNECTION SIZES.
3. ROUTE EXPOSED DUCTWORK TIGHT TO STRUCTURE EXCEPT WHERE NOTED ON PLAN. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
4. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
5. INSTALLED LINED RETURN AIR BOOT ON TRANSFER AIR GRILLES LOCATED IN PUBLIC VIEW. BOOT SHALL BE FULL SIZE OF GRILLE OPENING.
6. NO DUCTWORK MAY BE SUPPORTED FROM THE ROOF DECK. REFER TO SPECIFICATIONS FOR HANGER REQUIREMENTS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND ELEVATIONS.
8. REFER TO H4.0 FOR ALL DETAILS.

MECHANICAL PLAN NOTES

1. PROVIDE NEW DIFFUSER COORDINATED IN NEW CEILING GRID. CONNECT DIFFUSER TO EXISTING DUCTWORK
2. PROVIDE INSULATION BACKING ON THERMOSTAT MOUNTED ON EXTERIOR WALL.
3. CAP/INFILL EXISTING LOUVERS WEATHER TIGHT.
4. ROUTE DUCTWORK TO ROOF PROVIDE WITH MOTORIZED DAMPER. RE 1/H3.0B FOR CONTINUATION.
5. ROUTE PIPING UP TO ROOF. RE1/H3.0B FOR CONTINUATION.
6. CONTRACTOR TO FIELD MODIFY UNIT FOR HORIZONTAL ORIENTATION.

NOTE:
ALL DUCTWORK/DAMPERS/TAPS SHOWN ON SALES FLOOR ARE EXISTING TO REMAIN. REPLACE EXISTING AS SHOWN. DUCT SIZES SHOWN ARE MINIMUM. CONTRACTOR SHALL FIELD VERIFY SIZES AND NOTIFY ENGINEER IF INSUFFICIENT.

REVISED LOCATIONS OF ALL CEILING DIFFUSERS ON SALES FLOOR TO FIT WITH-IN EXISTING CEILING GRID.

AIR CURTAIN SCHEDULE (ELECTRIC HEAT)

MARK	AREA SERVED	MANUFACTURER	MODEL	UNIT SPECS				ELECTRICAL			NOTES
				LENGTH (IN)	MAX AIRFLOW	HEATING CAPACITY (KW)	MOTOR (HP)	VOLTS	PH		
AC 1	AISLES ONLINE	BERNER	ALC08-1048E	47.25	1381	14.4	1/3	208	1	A-D	
AC 2	AISLES ONLINE	BERNER	ALC08-1048E	47.25	1381	14.4	1/3	208	1	A-D	

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. EQUIPMENT PROVIDED BY DIVISION 23.
B. MOUNT UNIT PER MANUFACTURER'S RECOMMENDATIONS TO FACE OF WALL AND SUPPORT VERTICALLY.
C. PROVIDE INTEGRAL STARTER AND DISCONNECT SWITCH.
D. PROVIDE WITH UNIT MOUNTED THERMOSTAT.

REVISION		DATE BY
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

hyvee® EMPLOYEE OWNED

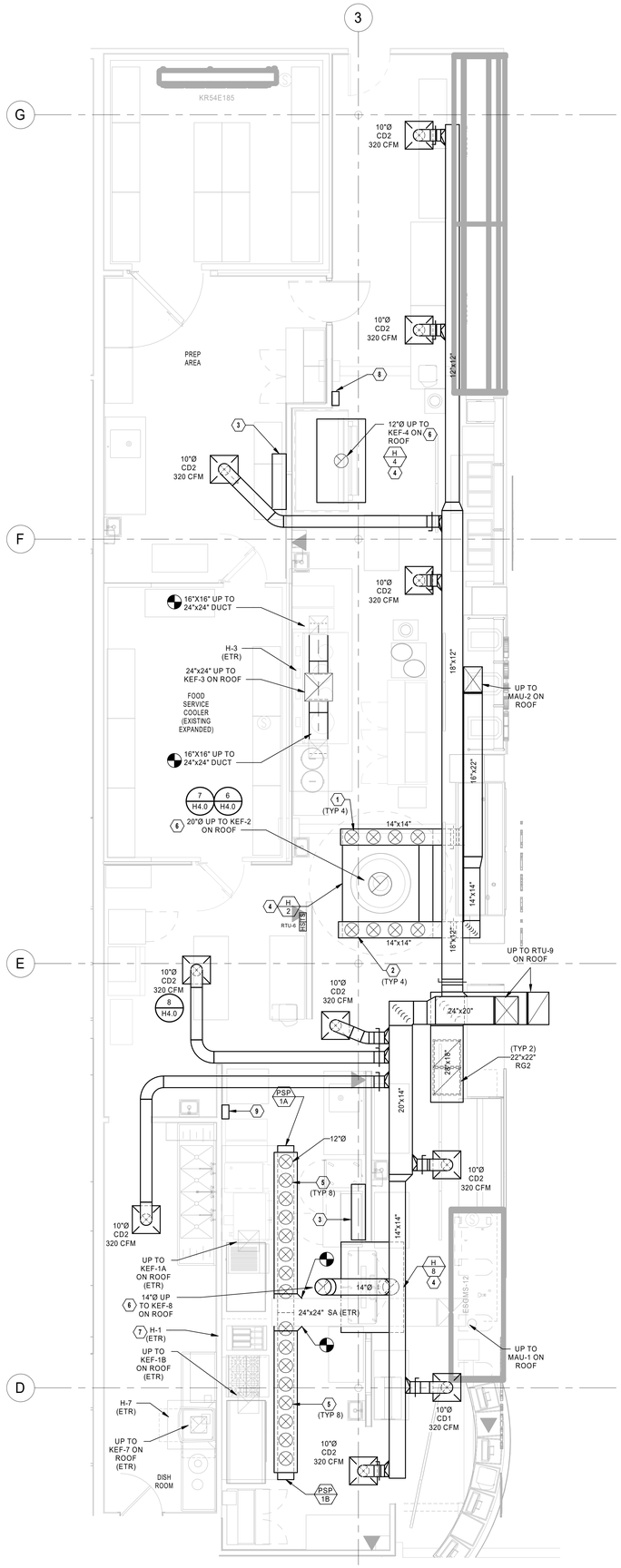
NORTH PLAN NORTH

HVAC FLOOR PLAN - PART B

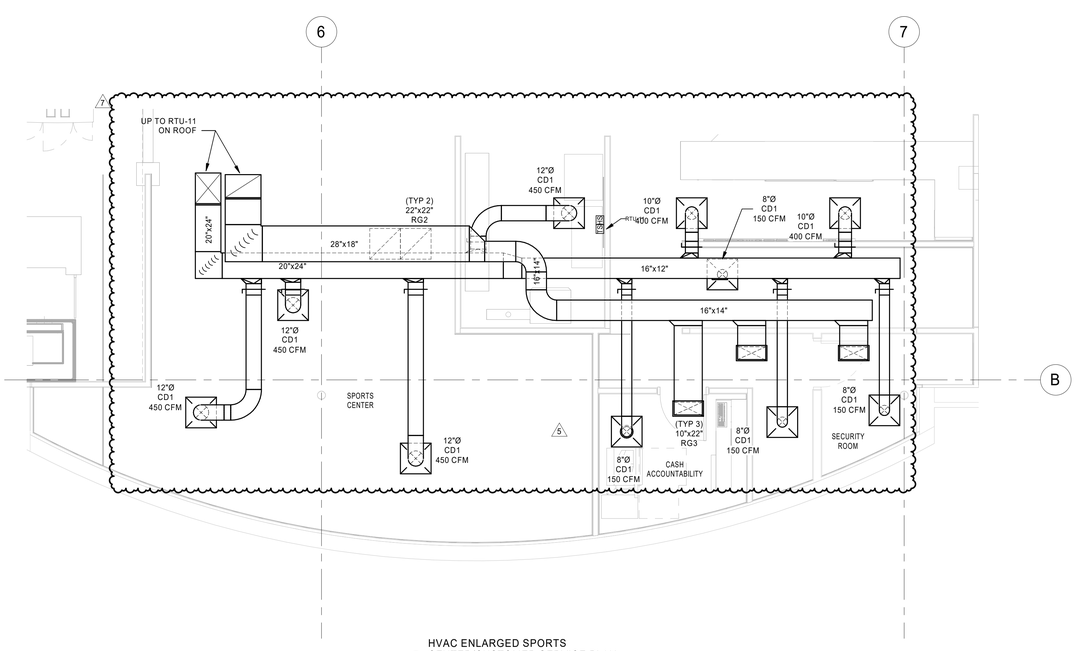
PROJECT MANAGER	CHECKED BY:
SL	Checker
DRAWN BY:	DATE:
Author	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
H1.0B

JOSHUA N. HOVER
4/21/2021 10:08:09 AM



2 HVAC ENLARGED KITCHEN PLAN
1/4" = 1'-0"



1 HVAC ENLARGED SPORTS CENTER/CUSTOMER SERVICE PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH RTU CONNECTION SIZES.
2. TRANSITION VERTICAL DUCTWORK AS REQUIRED TO MATCH EXHAUST FAN CONNECTION SIZES.
3. ROUTE EXPOSED DUCTWORK TIGHT TO STRUCTURE EXCEPT WHERE NOTED ON PLAN. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
4. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
5. INSTALLED LINED RETURN AIR BOOT ON TRANSFER AIR GRILLES LOCATED IN PUBLIC VIEW. BOOT SHALL BE FULL SIZE OF GRILLE OPENING.
6. NO DUCTWORK MAY BE SUPPORTED FROM THE ROOF DECK. REFER TO SPECIFICATIONS FOR HANGER REQUIREMENTS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND ELEVATIONS.
8. REFER TO H4.0 FOR ALL DETAILS.

MECHANICAL PLAN NOTES

1. 12"Ø MAKEUP AIR COLLAR. OFFSET AS REQUIRED TO TAP INTO MAKEUP AIR DUCT ROUTING ABOVE. CAPTIVE AIRE TO BALANCE EACH TAP AT 226 CFM DURING STARTUP.
2. 12"Ø MAKEUP AIR COLLAR. OFFSET AS REQUIRED TO TAP INTO MAKEUP AIR DUCT ROUTING ABOVE. CAPTIVE AIRE TO BALANCE EACH TAP AT 282 CFM DURING STARTUP.
3. MOUNT FIRE SUPPRESSION AND CONTROLS CABINET HIGH ON WALL, TIGHT TO CEILING.
4. PROVIDE EXHAUST HOOD AND FAN WITH INTERNAL FILTERS, LIGHTS, AND FIRE SUPPRESSION SYSTEM AND CABINET AND PULL STATION AS APPLICABLE TO CODE AND AS NOTED IN MECHANICAL SCHEDULES.
5. 12"Ø MAKEUP AIR COLLAR. OFFSET AS REQUIRED TO TAP INTO MAKEUP AIR DUCT ROUTING ABOVE. CAPTIVE AIRE TO BALANCE EACH TAP AT 255CFM DURING STARTUP.
6. PROVIDE TYPE I PREFABRICATED GREASE DUCT WITH CLEANOUTS.
7. COORDINATE EXISTING CONTROLS WITH CAPTIVE AIRE. REPLACE EXISTING SWITCHES WITH NEW HMI & PROVIDE WITHIN DOUBLE GANG ELECTRICAL BOX.
8. PIZZA OVEN HMI IN DOUBLE GANG BOX AT 60" AFF.
9. NEW HMI FOR EXISTING MAIN COOKLINE HOODS IN DOUBLE GANG BOX AT 60" AFF.

REVISION		DATE BY
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER PE-2017008503
PROFESSIONAL ENGINEER

04/21/2021
JOSHUA N. HOVER
LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

HVAC ENLARGED PLANS

PROJECT MANAGER	CHECKED BY:
SL	Checker
DRAWN BY:	DATE:
Author	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
H1.2

JOSHUA N. HOVER
4/21/2021 11:16:58 AM

PANELBOARD: B (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: LIGHTING
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
R	1	**LTG - DELI/CHEESE**	420			12	20	1	1	20	12	1,344			**LTG - WINE AND SPIRITS TRK 1**	2	R
R	3	**LTG - DELI/CHEESE TRACK**		147		12	20	1	1	20	12		1,554		**LTG - WINE AND SPIRITS TRK 2**	4	R
R	5	**LTG - PRODUCE TRIM**			252	12	20	1	1	20	12			400	**LTG - WINE AND SPIRITS VEST.**	6	R,EM
R	7	**LTG - MEAT/SEAFOOD**	732			12	20	1	1	20	EX	1,200			SALES AREA LTG	8	EX
R	9	**LTG - MEAT/SEAFOOD TRACK**		189		12	20	1	1	20	EX		1,200		SALES AREA LTG	10	EM
(5) R	11	**LTG - MEAT CASE PENDANTS**			60	12	20	1	1	20	EX			1,200	SALES AREA LTG	12	EM
	13	**SPARE**					20	1	1	20	EX	1,200			SALES AREA LTG	14	EX
R	15	**LTG - PIZZA/ASIAN TRACK**		126		12	20	1	1	20	EX		1,200		SALES AREA LTG	16	EX
R	17	**LTG - PIZZA/ASIAN**			684	12	20	1	1	20	EX			1,200	SALES AREA LTG	18	EX
R	19	**LTG - FOOD SERVICE ROOM**	348			12	20	1	1	20	EX	1,200			SALES AREA LTG	20	EX
R	21	**LTG - KITCHEN/COMF FOODS**		756		12	20	1	1	20	EX		1,200		SALES AREA LTG	22	EX
R	23	**LTG - CONF FDS/MKT EXP/SUSHI**			105	12	20	1	1	20	EX			1,200	BACK ROOM LTG	24	EX
R	25	**LTG - EXIT HALL**	294 (5)			12	20	1	1	20	EX	1,200			BACK RM CLG FAN & HEATER	26	EX
R	27	**LTG - BAKERY 1**		624		12	20	1	1	20	EX		1,200		ELEC ROOM LTG	28	EX
R	29	**LTG - BAKERY 2**			882	12	20	1	*1*	*20*	*EX*			*1,200*	*TUNNEL LTG & BUNKER DEMO*	30	EX
R	31	**LTG - BAKERY 3**	780			12	20	1	*1*	*20*	*EX*	*500*			*SYS 9 BUNKER*	32	EX
R	33	**LTG - BAKERY/DECADENT TRACK**		189		12	20	1	*1*	*20*	*EX*		*500*		*SYS 11 BUNKER*	34	EX (2)
(5) R	35	**LTG - WINE ROOM FLR STRIPS**			160	12	20	1	1	20	12			180	**LTG - WINE ROOM DWNLTS**	36	N
R	37	**LTG - AISLES ONLINE**	450			12	20	1	1	20	12	200			**LTG - DAIRY TRACK**	38	N
V	39	**SPARE**					20	1	1	20	12		1,000		**LTG - CANDY CARDS TRACK 1**	40	N
	41	EQUIPPED SPACE						1	1	20	12			1,000	**LTG - CANDY CARDS TRACK 2**	42	N
		SUBTOTAL	3,024	2,031	2,143							6,844	7,854	6,380	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	9,868							
AMPS	82	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	9,885	HEATING		0	SIGN/DISP		1.25	
AMPS	82	LIGHTING	14,076	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	8,523	RECEPTACLES		1.0/.5	EXISTING	15,400	1.00	
AMPS	71	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	28,276	SUPP HEAT		1.00	SHOW WNDW		1.25	32,995 VA
AMPS	78	MISC EQUIP		1.00	LTG TRACK		1.00	92 A

PANELBOARD NOTES

PANELBOARD: CL (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: KP
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: CLINIC
MOUNTING: RECESSED
LOCATION: CLINIC STORAGE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

(2)

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1	CLINIC FRONT DESK COMP	360			12	20	1				10				2	
	3	SPARE					20	1	3	30			10		SPD	4	
	5	SPARE					20	1						10		6	
	7	SPARE					20	1	1	20					SPARE	8	
	9	SPARE					20	1	1	20					SPARE	10	
	11	EQUIPPED SPACE						1	1						EQUIPPED SPACE	12	
	13	EQUIPPED SPACE						1	1						EQUIPPED SPACE	14	
	15	EQUIPPED SPACE						1	1						EQUIPPED SPACE	16	
	17	EQUIPPED SPACE						1	1						EQUIPPED SPACE	18	
	19	EQUIPPED SPACE						1	1						EQUIPPED SPACE	20	
	21	EQUIPPED SPACE						1	1						EQUIPPED SPACE	22	
	23	EQUIPPED SPACE						1	1						EQUIPPED SPACE	24	
	25	EQUIPPED SPACE						1	1						EQUIPPED SPACE	26	
	27	EQUIPPED SPACE						1	1						EQUIPPED SPACE	28	
	29	EQUIPPED SPACE						1	1						EQUIPPED SPACE	30	
	31	CLINIC SCREEN	180			12	20	1	1	20	12	720			EXAM 1 RCPTS 1	32	
	33	NURSE CALL		500		12	20	1	1	20	12		360		EXAM 1 RCPTS 2	34	
	35	LAB RCPTS 1			720	12	20	1	1	20	12			720	EXAM 2 RCPTS 1	36	
	37	LAB RCPTS 2	540			12	20	1	1	20	12	360			EXAM 2 RCPTS 2	38	
	39	LAB DATA RACK 1		500		12	20	1	1	20	12		360		CLINIC HALLWAY/RR RCPTS	40	
	41	LAB DATA RACK 2			500	12	20	1	1	20	12			900	CLINIC RECEPTION DESK	42	
		SUBTOTAL	1,080	1,000	1,220							1,090	730	1,630	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	2,170							
AMPS	18	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	1,730	HEATING		0	SIGN/DISP		1.25	
AMPS	14	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	2,850	RECEPTACLES	6,720	1.0/.5	EXISTING		1.00	
AMPS	24	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	6,750	SUPP HEAT		1.00	SHOW WNDW		1.25	6,750 VA
AMPS	19	MISC EQUIP	30	1.00	LTG TRACK		1.00	19 A

PANELBOARD NOTES

PANELBOARD: D (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: LIGHTING
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	*SALES AREA LTG*	*1,200*			*EX*	*20*	*1*	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	2	EX,EM
EX	3	*SALES AREA LTG*		*1,200*		*EX*	*20*	*1*	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	4	EX
EX	5	*SALES AREA LTG*			*1,200*	*EX*	*20*	*1*	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	6	EX
EX	7	*SALES AREA LTG*	*1,200*			*EX*	*20*	*1*	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	8	EX,EM
EX	9	*SALES AREA LTG*		*1,200*		*EX*	*20*	*1*	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	10	EX
EX	11	*SALES AREA LTG*			*1,200*	*EX*	*20*	*1*	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	12	EX
EX	13	*SALES AREA LTG*	*1,200*			*EX*	*20*	*1*	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	14	EX
EX	15	*SALES AREA LTG*		*1,200*		*EX*	*20*	*1*	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	16	EX
EX	17	*ENTRY WAY LTG*			*1,200*	*EX*	*20*	*1*	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	18	EX
R	19	**JOE FRESH TRACK 1**	1,000			12	20	1	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	20	EX,EM
R	21	**JOE FRESH TRACK 2**		1,000		12	20	1	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	22	EX
R	23	**JOE FRESH TRACK 3**			1,000	12	20	1	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	24	EX
EX,EM	25	*PANEL B CKT 37*	*500*			*EX*	*20*	*1*	*1*	*20*	*EX*	*1,200*			*PANEL B CKT 38*	26	EX
EX	27	*SALES AREA LTG*		*1,200*		*EX*	*20*	*1*	*1*	*20*	*EX*		*1,200*		*COFFEE GRINDER DROP*	28	EX
EX	29	*SALES AREA LTG*			*1,200*	*EX*	*20*	*1*	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	30	EX
EX	31	*PANEL B CKT 32*	*500*			*EX*	*20*	*1*	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	32	EX
R	33	**DSW TRACK 1**		1,000		12	20	1	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	34	EX
R	35	**DSW TRACK 2**			1,000	12	20	1	*1*	*20*	*EX*			*1,200*	*SALES AREA LTG*	36	EX
R	37	**DSW TRACK 3**	1,000			12	20	1	*1*	*20*	*EX*	*1,200*			*SALES AREA LTG*	38	EX,EM
EX	39	*EXISTING LOAD*		*1,200*		*EX*	*20*	*1*	*1*	*20*	*EX*		*1,200*		*SALES AREA LTG*	40	EX,EM
	41	EQUIPPED SPACE						1	1						EQUIPPED SPACE	42	
		SUBTOTAL	6,600	8,000	6,800							8,400	8,400	7,200	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	15,000							
AMPS	125	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	16,400	HEATING		0	SIGN/DISP		1.25	
AMPS	137	LIGHTING	6,000	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	14,000	RECEPTACLES		1.0/.5	EXISTING	40,600	1.00	
AMPS	117	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	45,400	SUPP HEAT		1.00	SHOW WNDW		1.25	48,100 VA
AMPS	126	MISC EQUIP		1.00	LTG TRACK		1.00	134 A

PANELBOARD NOTES

PANELBOARD: E (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: KITCHEN/DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1		3,759						2	50	6	3,445			**HICKORY HOUSE HOT CASE 2**	2	N
R	3	**DELI BOOSTER HEATER**		3,759		8	40	3					3,445			4	
	5				3,759				1	20	12			720	**KITCHEN ROTISSERIE**	6	R
R	7	**HIBACHI 10' COLD CASE**	270			12	20	1	*1*	*20*	*EX*	*500*			*EXISTING LOAD*	8	EX
EX	9	*PIZZA DEEP WELL*		*500*		*EX*	*20*	*1*	*1*	*20*	*EX*		*500*		*EXISTING LOAD*	10	EX
EX	11	*PIZZA RCPT*			*500*	*EX*	*20*	*1*	*1*	*20*	*EX*			*500*	*EXISTING LOAD*	12	EX
EX	13	*DELI DISPOSAL*	*500*			*EX*	*20*	*1*	1	20	12	1,400			**KITCHEN HEAT RAIL**	14	R
EX	15	*DELI DISHWASHER EX FAN EF5*		*1,000*		*EX*	*20*	*1*	1	20	12		1,176		**KITCHEN REF TABLE (BACK RM)**	16	R
EX	17	*WEST BAKERY FRZR FANS*			*1,000*	*EX*	*20*	*2*	*1*	*20*	*EX*			*500*	*EXISTING LOAD*	18	EX
	19		*1,000*						*1*	*20*	*EX*	*500*			*EXISTING LOAD*	20	EX
EX	21	*BAKERY WEST COIL FRZR FANS*		*500*		*EX*	*20*	*1*	1	20	12		360		**KITCHEN CONV RCPT 1**	22	R
EX	23	*JUICE BAR ISO GROUND*			*500*	*EX*	*20*	*1*	1	20	12			540	**KITCHEN CONV RCPT 2**	24	R
EX	25	*JUICE BAR RCPT*	*500*			*EX*	*20*	*1*	*2*	*30*	*EX*	*2,496*			*HOT WELLS*	26	EX
EX	27	*EXISTING LOAD*		*500*		*EX*	*20*	*1*					*2,496*			28	
EX	29	*EXISTING LOAD*			*500*	*EX*	*20*	*1*	*1*	*20*	*EX*			*500*	*DELI DISPOSAL*	30	EX
R	31	**HICKORY HOUSE HOT CASE 1**	3,077			8	40	2	*1*	*20*	*EX*	*500*			*DELI HALF WALL RCPTS*	32	EX
	33			3,077					*1*	*20*	*EX*		*500*		*WINE TASTING RCPT*	34	EX
N	35	**CHINESE HOT WELL**			7,475	3	100	2	*1*	*20*	*EX*			*500*	*WINE TASTING RCPT*	36	EX
	37		7,475						1	20	10	1,920			**KITCHEN HOLDING CABINET**	38	R
EX	39	*EXISTING LOAD*		*500*		*EX*	*20*	*1*	1	20	12		1,176		**KITCHEN REF TABLE**	40	R
EX	41	*BAKERY FRZR LTS*			*500*	*EX*	*20*	*1*	*1*	*20*	*EX*			*500*	*PRODUCE COLUMN RCPT*	42	EX
		SUBTOTAL	16,581	9,836	14,234							10,761	9,653	3,760	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	27,342							
AMPS	228	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	19,489	HEATING		0	SIGN/DISP		1.25	
AMPS	162	LIGHTING		1.25	KITCHEN	34,656	0.65	
TOTAL PHASE C - VA	17,994	RECEPTACLES	900	1.0/.5	EXISTING	17,992	1.00	
AMPS	150	MOTORS	11,277	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	64,825	SUPP HEAT		1.00	SHOW WNDW		1.25	52,695 VA
AMPS	180	MISC EQUIP		1.00	LTG TRACK		1.00	146 A

PANELBOARD NOTES

PANELBOARD: F (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

(2)

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1		4,083						*1*	*20*	*EX*	*500*			*EXISTING LOAD*	2	EX
N	3	**180lb MIXER**		4,083		6	45	3	*1*	*20*	*EX*		*500*		*EXISTING LOAD*	4	EX
	5				4,083				*1*	*20*	*EX*			*500*	*EXISTING LOAD*	6	EX
EX	7	*BREAD SLICER DROP*	*500*			*EX*	*20*	*1*	*1*	*20*	*EX*	*500*			*EXISTING LOAD*	8	EX
(7) R	9	**KEF-5**		516		12	20	1	*1*	*20*	*EX*		*500*		*EXISTING LOAD*	10	EX
N	11	**BAKERY TABLE MICROWAVE**			1,000	12	20	1	*1*	*20*	*EX*			*500*	*EXISTING LOAD*	12	EX
	13	EQUIPPED SPACE						1	1	20	12	500			**BAKERY SCALES 1**	14	R (7)
EX	15	*DONUT HOOD*		*500*		*EX*	*20*	*1*	1	20	12		1,200		**BAKERY TABLE COMP/PRINTER**	16	R
EX	17	*RCPT UNDER DONUT HOOD*			*500*	*EX*	*20*	*1*	1	20	12			500	**BAKERY TABLE MONITOR**	18	R
	19		*1,921*									1,921				20	
EX	21	*140 QT BAKERY MIXER*		*1,921*		*EX*	*20*	*3*	3	20	12		1,921		**BAKERY ROUNDER**	22	R
	23				*1,921*									1,921		24	
EX	25	*EXISTING LOAD*	*2,880*			*EX*	*30*	*1*	1	20	EX	500			*EXISTING LOAD*	26	
EX	27	*30 QT MIXER*		*1,664*		*EX*	*20*	*1*	1	20	12		360		**BAKERY FLOOR BOXES 1**	28	R
	29				*1,664*				1	20	12			360	**BAKERY FLOOR BOXES 2/SCALE**	30	R
	31		1,921						1	20	12	500			**BAKERY RACK OVEN CONTROL**	32	R
N	33	**BAKERY RACK OVEN**		1,921		12	20	3	1	20	12		500		**BAKERY FLOOR SCALES**	34	R
	35				1,921				*1*	*20*	*EX*			*500*	*EXISTING LOAD*	36	EX
	37		*4,803*						*1*	*20*	*EX*	*500*			*EXISTING LOAD*	38	EX
EX	39	*BAKERY FRYER*		*4,803*		*EX*	*50*	*3*	*1*	*20*	*EX*		*500*		*EXISTING LOAD*	40	EX
	41				*4,803*				1	20	12			900	**BAKERY SHEETER**	42	R
		SUBTOTAL	16,108	15,408	15,892							4,921	5,481	5,181	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	21,029							
AMPS	175	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	20,889	HEATING		0	SIGN/DISP		1.25	
AMPS	174	LIGHTING		1.25	KITCHEN	28,675	0.65	
TOTAL PHASE C - VA	21,073	RECEPTACLES	1,420	1.0/.5	EXISTING	32,880	1.00	
AMPS	176	MOTORS	516	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	62,991	SUPP HEAT		1.00	SHOW WNDW		1.25	53,455 VA
AMPS	175	MISC EQUIP		1.00	LTG TRACK		1.00	148 A

PANELBOARD NOTES

PANELBOARD: G (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: MEAT & SEAFOOD POWER
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	*SERVICE MEAT RCPT*	*500*			*EX*	*20*	*1*	1	20	12	180		(5)	**MEAT/SF SCALE**	2	R
EX	3	*MD MEAT RCPT*		*500*		*EX*	*20*	*1*	1	20	12		540		**MEAT/SF MENU SCREENS**	4	R
R	5	**PRODUCE TRIM HEAT WRAP**			725	12	20	1	1	20	12			725	**MEAT/SF HEAT SEAL WRAP**	6	R
R	7	**PRODUCE TRIM RCPT/SCALE**	540			12	20	1	1	20	12	180			**MEAT/SF CONV RCPT 1**	8	R
EX	9	*SERVICE MEAT SCALE IG*		*500*		*EX*	*20*	*1*	1	20	12		696		**SALES FLOOR COOLER 1**	10	R
R	11	**PRODUCE MISTER**			180	12	20	1	1	20	12			696	**SALES FLOOR COOLER 2**	12	R
R	13	**EF-12 CUSTOMER RRS**	768			12	20	1	1	20	12	696			**SALES FLOOR COOLER 3**	14	R
R	15	**SALES FLOOR BULK WATER**		696		12	20	1	1	20	12		696		**SALES FLOOR COOLER 4**	16	R
(7) R	17	**BAKERY CASE LTS**			500	12	20	1	1	20	12			696	**SALES FLOOR COOLER 5**	18	R
N	19	**AC-2 A**	3,875			6	50	2	1	20	12	456			**SALES FLOOR COOLER 6**	20	R
	21	**AISLES ONLINE**		3,875					1	20	12		180		**DELI CHEESE SCREEN**	22	R
N	23	**AC-2 B**			3,600	6	45	2	1	20	12			360	**DELI CHEESE CONV RCPTS**	24	R
	25	**AISLES ONLINE**	3,600						1	20	12	360			**ROOFTOP RCPTS 1**	26	R
EX	27	*SERVICE SEAFOOD CASE*		*500*		*EX*	*20*	*1*	1	20	12		540		**ROOFTOP RCPTS 2**	28	R
EX	29	*MEAT GRINDER RCPT*			*500*	*EX*	*20*	*1*	*1*	*20*	*EX*			*500*	*N ROOF TOP GFI*	30	EX
EX	31	*FAT TESTER*	*500*			*EX*	*20*	*1*	*1*	*20*	*EX*	*500*			*N ROOF TOP SMOKE DET.*	32	EX
EX	33	*MEAT/CHEESE WALL OUTLETS*		*500*		*EX*	*20*	*1*	*1*	*20*	*EX*		*500*		***FISH DEPT EXH FAN EF10***	34	EX
EX	35	*SPARE ABOVE MEAT/CHEESE*			*500*	*EX*	*20*	*1*	1	20	12			360	**DELI CHEESE SCALE 1**	36	R
EX	37	*RCPT ON WALL MOTOR RM*	*500*			*EX*	*20*	*1*	1	20	12	180			**DELI CHEESE SCALE 2**	38	R
	39	EQUIPPED SPACE						1	1						EQUIPPED SPACE	40	
EX	41	*SALAD PREP LTG*			*1,700*	*EX*	*20*	*1*	1						EQUIPPED SPACE	42	
		SUBTOTAL	10,283	6,571	7,705							2,552	3,152	3,337	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	12,835							
AMPS	107	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	9,723	HEATING		0	SIGN/DISP		1.25	
AMPS	81	LIGHTING	1,700	1.25	KITCHEN	2,170	0.70	
TOTAL PHASE C - VA	11,042	RECEPTACLES	7,332	1.0/.5	EXISTING	6,500	1.00	
AMPS	92	MOTORS	15,718	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	33,600	SUPP HEAT		1.00	SHOW WNDW		1.25	33,374 VA
AMPS	93	MISC EQUIP	180	1.00	LTG TRACK		1.00	93 A

PANELBOARD NOTES

PANELBOARD: H (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: MEAT & SEAFOOD POWER
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1		*1,921*						*1*	*20*	*EX*	*500*			*CORD DROP*	2	EX
EX	3	*MEAT SAW*		*1,921*		*EX*	*20*	*3*	*1*	*20*	*EX*		*500*		*CORD DROP*	4	EX (5)
	5				*1,921*				1	20					**SPARE**	6	V
	7		*4,803*						1	20					**SPARE**	8	V
EX	9	*TRASH COMPACTOR*		*4,803*		*EX*	*50*	*3*	1	20					**SPARE**	10	V
	11				*4,803*				1	20	12			360	**SERVICE MEAT RCPT**	12	R
R	13	**UH-4 (ELEC ROOM)**	500			12	20	1	1	20	12	500			**MEAT WRAPPER**	14	R
V	15	SPARE					20	1	1	20	12		500		**MEAT TENDERIZER**	16	R
EX	17	*EXISTING LOAD*			*500*	*EX*	*20*	*1*	1	20	12			540	**MEAT SCALES**	18	R
	19		367						*1*	*20*	*EX*	*500*			*PNL Q CONTACTOR*	20	EX
N	21	**BAKERY VARIA PRO SLICER**		367		12	20	3					4,491			22	
	23				367				3	50	6			4,491	**MAU-2 FANS**	24	N
EX	25	*RCPT - ALARM BY COMPACT.*	*500*			*EX*	*20*	*1*				4,491				26	
(4) R	27	**BAKERY SCREENS**		360		12	20	1	1	20	12		725		**DELI CHEESE HEAT WRAP**	28	R
R	29	**DELI CHEESE REF. TABLE**			756	12	20	1	1	20	12			500	**DELI CHEESE SLICER 1**	30	R
	31		1,345						1	20	12	500			**DELI CHEESE SLICER 2**	32	R
N	33	**MAU-2 CONDENSERS 1**		1,345		12	20	3	*1*	*20*	*EX*		*500*		*MEAT & CHEESE RCPT*	34	EX
	35				1,345				*2*	*20*	*EX*			*1,000*	*PANINI PRESS*	36	EX
	37		2,570									*1,000*				38	
R	39	**MAU-2 CONDENDERS 2**		2,570		10	30	3	*1*	*20*	*EX*		*500*		*DELI FLOOR RCPT*	40	EX
	41				2,570				*1*	*20*	*EX*			*500*	*MEAT & CHEESE RCPT FLOOR*	42	EX
		SUBTOTAL	12,006	11,366	12,262							7,491	7,216	7,391	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	19,497							
AMPS	162	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	18,582	HEATING		0	SIGN/DISP		1.25	
AMPS	155	LIGHTING		1.25	KITCHEN	4,186	0.65	
TOTAL PHASE C - VA	19,653	RECEPTACLES	900	1.0/.5	EXISTING	26,928	1.00	
AMPS	164	MOTORS	25,218	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	57,732	SUPP HEAT	500	1.00	SHOW WNDW		1.25	56,267 VA
AMPS	160	MISC EQUIP		1.00	LTG TRACK		1.00	156 A

PANELBOARD NOTES

(2)

PANELBOARD: K (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: PNLBD L
AIC RATING: 10000 FULLY RATED
SERVES: CHECKSTANDS & CLEAN POWER
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
R	1	**STARBUCKS CLEAN 1**	360			12	20	1	1	20	12	360			**BAR CLEAN**	2	R
R	3	**STARBUCKS CLEAN 2**		360		12	20	1	1	20					SPARE	4	V
R	5	**CHECKSTAND 8 CLEAN**			500	12	20	1	1	20	12			500	**CHECKSTAND 9 CLEAN**	6	R
R	7	**CHECKSTAND 10 CLEAN**	500			12	20	1	1	20					SPARE	8	V
R	9	**SELF CHECKOUT 1 CLEAN**		1,000		12	20	1	1	20					SPARE	10	V
R	11	**SELF CHECKOUT 4 CLEAN**			1,000	12	20	1	1	20	12			1,000	**SELF CHECKOUT 3 CLEAN**	12	R
R	13	**SELF CHECKOUT 2 CLEAN**	1,000			12	20	1	1	20	12	500			**CHECKSTAND 1 CLEAN**	14	R
R	15	**CHECKSTAND 2 CLEAN**		500		12	20	1	1	20	12		500		**CHECKSTAND 3 CLEAN**	16	R
R	17	**CHECKSTAND 4 CLEAN**			500	12	20	1	1	20	12			500	**CHECKSTAND 5 CLEAN**	18	R
R	19	**CHECKSTAND 6 CLEAN**	500			12	20	1	1	20	12	500			**CHECKSTAND 7 CLEAN**	20	R
R	21	**CUSTOMER SERVICE CLEAN 1**		360		12	20	1	1	20	12		360		**FLORAL CLEAN 1**	22	R
R	23	**CUSTOMER SERVICE CLEAN 2**			360	12	20	1	1	20	12			360	**FLORAL CLEAN 2**	24	R
R	25	**CUSTOMER SERVICE CLEAN 3**	360			12	20	1	1	20	12	360			**PREP FOOD CHECKOUT CLEAN 1**	26	R
R	27	**CUSTOMER SERVICE CLEAN 4**		360		12	20	1	1	20	12		360		**PREP FOOD CHECKOUT CLEAN 2**	28	R
R	29	**CUSTOMER SERVICE CLEAN 5**			360	12	20	1	1	20	12			360	**PREP FOOD CHECKOUT CLEAN 3**	30	R
R	31	**CUSTOMER SERVICE CLEAN 6**	360			12	20	1	1	20	12	360			**PREP FOOD CHECKOUT CLEAN 4**	32	R
R	33	**CUSTOMER SERVICE CLEAN 7**		360		12	20	1	1	20					SPARE	34	V
V	35	SPARE					20	1	1	20	12			1,080	**LIQUOR PRINTER/MONITOR**	36	R
	37		10						1	20	12	360			**LIQUOR CHECKOUT CLEAN 1**	38	R
N	39	SPD		10			30	3	1	20	12		360		**LIQUOR CHECKOUT CLEAN 2**	40	R
	41				10				1	20	12			360	**LIQUOR CHECKOUT CLEAN 3**	42	R
		SUBTOTAL	3,090	2,950	2,730							2,440	1,580	4,160	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	5,530							
AMPS	46	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	4,530	HEATING		0	SIGN/DISP		1.25	
AMPS	38	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	6,890	RECEPTACLES	7,920	1.0/.5	EXISTING		0.80	
AMPS	57	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	16,950	SUPP HEAT		1.00	SHOW WNDW		1.25	16,950 VA
AMPS	47	MISC EQUIP	9,030	1.00	LTG TRACK		1.00	47 A

PANELBOARD NOTES

(2)

PANELBOARD: KP (NEW)

BUS AMPS: 125A
MAIN SIZE/TYPE: 125A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: PHARMACY
MOUNTING: RECESSED
LOCATION: PHARMACY

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1	PHARM FRONT COUNTER 1	360			12	20	1	1	20	12	360			PHARM FRONT COUNTER 2	2	
	3	PHARM FRONT COUNTER 3		360		12	20	1	1	20	12		360		PHARM FRONT COUNTER 4	4	
	5	SPARE					20	1	1	20	12			360	PHARM FRONT COMPUTER	6	
	7	PHARM FRONT COUNTER 5	360			12	20	1	1	20	12	360			PHARM BACK COUNTER	8	
	9	PHARM ISLAND 1A		360		12	20	1	1	20	12		360		PHARM ISLAND 2A	10	
	11	PHARM ISLAND 1B			360	12	20	1	1	20	12			360	PHARM ISLAND 2B	12	
	13	SPARE					20	1	1	20					SPARE	14	
	15	SPARE					20	1	1	20					SPARE	16	
	17	SPARE					20	1	1	20					SPARE	18	
	19	EQUIPPED SPACE						1	1						EQUIPPED SPACE	20	
	21	EQUIPPED SPACE						1	1						EQUIPPED SPACE	22	
	23	EQUIPPED SPACE						1	1						EQUIPPED SPACE	24	
	25	EQUIPPED SPACE						1	1						EQUIPPED SPACE	26	
	27			10					1						EQUIPPED SPACE	28	
	29	SPD			10		30	3	1						EQUIPPED SPACE	30	
	31		10						1						EQUIPPED SPACE	32	
	33	CONSULT COMP.		360		12	20	1	1						EQUIPPED SPACE	34	
	35	CONSULT RCPTS			720	12	20	1	1	20	12			1,000	PHARM REFRIGERATOR	36	
	37	PNLBD CL	2,170						1	20	12	360			FRONT COUNTER RCPTS	38	
	39			1,730		OL	50	3	1	20	12		360		BACK COUNTER RCPTS	40	
	41				2,850				1	20	12			900	ISLAND PRINTERS	42	
		SUBTOTAL	2,900	2,820	3,940							1,080	1,080	2,620	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	3,980							
AMPS	33	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	3,900	HEATING		0	SIGN/DISP		1.25	
AMPS	33	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	6,560	RECEPTACLES	14,380	1.0/.5	EXISTING		1.00	
AMPS	55	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	14,440	SUPP HEAT		1.00	SHOW WNDW		1.25	12,250 VA
AMPS	40	MISC EQUIP	60	1.00	LTG TRACK		1.00	34 A

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS — V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

REVISION		DATE BY
2	ASI #2	01/07/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 **FAX** 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL
STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER
04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
EMPLOYEE OWNED

NORTH — PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER: SL	CHECKED BY: HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET:
E1.1

VINCENT G. MASILIONIS
4/20/2021 3:19:52 PM

PANELBOARD: L (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: ATS
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: EMERGENCY/ NIGHT LIGHTING
MOUNTING: RECESSED
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS
FEED THRU LUGS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
R,EM	1	EM LTG - OFFICES/EXIT HALL	400			12	20	1	1	20	EX	500			XFMR FOR LOUVERS	2	EX
EX	3	8 SALES AREA LT FIXT		750		EX	20	1	1	20	EX		500		EXISTING LOAD	4	EX
EX	5	8 SALES AREA LT FIXT			750	EX	20	1	1	20	EX			500	EXISTING LOAD	6	EX
EX	7	LANDING LIGHT	750			EX	20	1				5,530				8	
EX	9	7 SALES AREA LT FXTT		750		EX	20	1	3	80	EX		4,530		PNLBD K	10	EX
EX	11	8 SALES AREA LT FIXT			750	EX	20	1						6,890		12	
EX	13	8 SALES AREA LT FIXT	750			EX	20	1	1	20	EX	750			DAIRY COVER LIGHTS	14	EX
EX	15	8 SALES AREA LT FIXT		750		EX	20	1	1	20	EX		750		DAIRY COVER LIGHTS	16	EX
EX	17	7 FRONT ENTRY LT FIXT			750	EX	20	1	1	20	EX			750	DAIRY COVER LIGHTS	18	EX
EX	19	5 FRONT ENTRY LT FIXT	750			EX	20	1	1	20	EX	750			DAIRY COVER LIGHTS	20	EX
R,EM	21	EM LTG - BAKERY/DELI/SF/MEAT/AOL		1,138		12	20	1	1	20	EX		750		DAIRY COVER LIGHTS	22	EX
EX	23	BACKROOM LTS			750	EX	20	1	1	20	EX			500	SPRINKLER BELL	24	EX
R,EM	25	EM LTG - MARKET GRILLE/W&S	250			12	20	1	1	20	EX	500			TELE BOARD RCPT	26	EX
EX	27	SALES AREA LIGHTS		750		EX	20	1								28	
EX	29	SALES AREA LIGHTS			750	EX	20	1	3	30					SPARE	30	V
EX	31	BACKROOM LTS	750			EX	20	1								32	
R,EM	33	EM LTG - KITCHEN/ASIAN/PIZZA		398		12	20	1	1	20	EX		500		EXISTING LOAD	34	EX
R,EM	35	EM LTG - CUST RRS/HALL			398	12	20	1	1	20	EX			500	FIRE ALARM PANEL	36	EX
	37	PNLBD LL	5,190						1	20	EX	500			TIME CLOCK	38	EX
EX	39			5,164		EX	80	3	1	20	EX		500		TELE & INTERCOM PANEL	40	EX
	41				4,952				1	20	EX			750	SCAN RM & HALLWAY LT	42	EX
		SUBTOTAL	8,840	9,700	9,100							8,530	7,530	9,890	SUBTOTAL		

TOTAL PHASE A - VA	17,370	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	145	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	17,230	HEATING		0	SIGN/DISP		1.25	
AMPS	144	LIGHTING	3,502	1.25	KITCHEN		0.90	
TOTAL PHASE C - VA	18,990	RECEPTACLES	8,280	1.0/.5	EXISTING	32,778	1.00	
AMPS	158	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	53,590	SUPP HEAT		1.00	SHOW WNDW		1.25	54,466 VA
AMPS	149	MISC EQUIP	9,030	1.00	LTG TRACK		1.00	151 A

PANELBOARD NOTES

PANELBOARD: KK (NEW)

BUS AMPS: 125A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: CLEAN POWER
MOUNTING: SURFACE
LOCATION: COMM ROOM

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	DIRECTORS OFFICE CLEAN	360			12	20	1	1	20	12	360			HUMAN RESOURCES CLEAN	2
3	ASST MANAGER CLEAN 1		360		12	20	1	1	20	12		360		DEPT HEADS CLEAN 1	4
5	ASST MANAGER CLEAN 2			360	12	20	1	1	20	12			360	DEPT HEADS CLEAN 2	6
7	ASST MANAGER CLEAN 3	360			12	20	1	1	20	12	360			DEPT HEADS CLEAN 3	8
9	ASST MANAGER CLEAN 4		360		12	20	1	1	20	12		360		DEPT HEADS CLEAN 4	10
11	ASST MANAGER CLEAN 5			360	12	20	1	1	20	12			360	DEPT HEADS CLEAN 5	12
13	ASST MANAGER CLEAN 6	360			12	20	1	1	20	12	360			DEPT HEADS CLEAN 6	14
15	DEPT HEADS CLEAN 7		360		12	20	1	1	20	12		360		DEPT HEADS CLEAN 8	16
17	DEPT HEADS CLEAN 9			360	12	20	1	1	20	12			360	DEPT HEADS CLEAN 10	18
19	DEPT HEADS CLEAN 11	360			12	20	1	1	20	12	360			DSD ROOM CLEAN 1	20
21	DSD ROOM CLEAN 2		360		12	20	1	1	20	12		360		DSD ROOM CLEAN 3	22
23	DSD ROOM CLEAN 4			360	12	20	1	1	20	12			360	RCPT - COMM ROOM 1	24
25	SPARE					20	1	1	20	12	360			RCPT - COMM ROOM 2	26
27	SPARE					20	1	1	20	12		360		RCPT - COMM ROOM 3	28
29	SPARE					20	1	1	20					SPARE	30
31	EQUIPPED SPACE						1	1	20					SPARE	32
33	EQUIPPED SPACE						1	1	20					SPARE	34
35	EQUIPPED SPACE						1	1	20					SPARE	36
37		10						1	20					SPARE	38
39	SPD		10			30	3	1	20					SPARE	40
41				10				1	20					SPARE	42
	SUBTOTAL	1,450	1,450	1,450							1,800	1,800	1,440	SUBTOTAL	

TOTAL PHASE A - VA	3,250	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	27	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	3,250	HEATING		0	SIGN/DISP		1.25	
AMPS	27	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	2,890	RECEPTACLES	9,360	1.0/.5	EXISTING		1.00	
AMPS	24	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	9,390	SUPP HEAT		1.00	SHOW WNDW		1.25	9,390 VA
AMPS	26	MISC EQUIP	30	1.00	LTG TRACK		1.00	26 A

PANELBOARD NOTES

PANELBOARD: M (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FLORAL & FRONT POWER
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
N	1	HOT CHICKEN CASE	2,863			8	40	2	1	20	12	1,000			CASH RECYCLE MACHINE	2	R
	3			2,863					1	20	12		500		CASH ACCT - SAFE	4	R
R	5	CUSTOMER SERVICE PRINTERS			1,000	12	20	1	1	20	12			500	CASH ACCT - PRINTER	6	R
R	7	COINSTAR	500			12	20	1	1	20	12	876			WINE & SPIRITS 2DR FRIDGE	8	R
	9			7,686					1	20	10		1,000		WINE & SPIRITS NEON 1	10	R
EX	11	EXISTING LOAD			7,686	EX	80	3	1	20	10			1,000	WINE & SPIRITS NEON 2	12	R
	13		7,686						1	20	10	500			WINE & SPIRITS NEON 3	14	R
	15			7,686					1	20	12		180		CART CHARGER 1	16	R
EX	17	EXISTING LOAD			7,686	EX	80	3	1	20	12			180	CART CHARGER 2	18	R
	19		7,686						1	20	12	1,000			ATM 1	20	R
R	21	SALES GONDOLA 1		360		12	20	1	1	20	12		1,000		ATM 2	22	R
R	23	SALES GONDOLA 2			360	12	20	1	1	20	12			540	FLORAL SALES RCPTS	24	R
R	25	SALES GONDOLA 3	360			12	20	1	1	20	12	720			FLORAL BACK COUNTER	26	R
R	27	SALES GONDOLA 4		360		12	20	1	1	20	12		720		FLORAL PREP ROOM 1	28	R
R	29	SALES GONDOLA 5			360	12	20	1	1	20	12			360	FLORAL PREP ROOM 2	30	R
R	31	SALES GONDOLA 6	360			12	20	1	1	20	12	500			FLORAL WALK IN AUTO DOOR	32	R
R	33	SALES GONDOLA 7		360		12	20	1	1	20	12		180		PRODUCE CASE RCPT	34	R
R	35	SALES GONDOLA 8			360	12	20	1	2	20	12			1,946	PRODUCE DROP CORD 1	36	N
R	37	SALES GONDOLA 9	360			12	20	1				1,946				38	
R	39	SALES GONDOLA 10		360		12	20	1	2	20	12		1,946		PRODUCE DROP CORD 2	40	R
R	41	SALES GONDOLA 11			360	12	20	1						1,946		42	
		SUBTOTAL	19,815	19,675	17,812							6,542	5,526	6,472	SUBTOTAL		

TOTAL PHASE A - VA	26,357	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	220	COOLING		0	REFRIG		1.00	
TOTAL PHASE B - VA	25,201	HEATING	5,726	1.00	SIGN/DISP		1.25	
AMPS	210	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	24,284	RECEPTACLES	23,500	1.0/.5	EXISTING	46,116	1.00	
AMPS	202	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	75,842	SUPP HEAT		1.00	SHOW WNDW		1.25	69,092 VA
AMPS	211	MISC EQUIP	500	1.00	LTG TRACK		1.00	192 A

PANELBOARD NOTES

PANELBOARD: N (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: PHARMACY & SALES FLR POWER
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	PHARMACY LT LIXT	1,200			EX	20	1				5,356				2	
EX	3	PHARMACY GFCI		500		EX	20	1	3	50	6		5,356		RTU-11 (CUST SERV/AOL)	4	N
EX	5	SECURITY & TV RCPT			500	EX	20	1						5,356		6	
EX	7	EXISTING LOAD	500			EX	20	1	1	20					SPARE	8	V
EX	9	EXISTING LOAD		500		EX	20	1	1	20	12		500		BP MACHINE	10	R
EX	11	EXISTING LOAD			500	EX	20	1	1	20	12			1,000	CUSTOMER SERVICE COPIER	12	R
R	13	SALES FLOOR 10' RCPTS	1,440			12	20	1	1	20	EX	500			HANDICAPPED SHOP CART	14	EX
R	15	BULK FOOD SCALES		360		12	20	1	2	30	EX		2,496		EXISTING LOAD	16	EX
N	17	WH-4 A			4,150	8	40	2						2,496		18	
	19		4,150						1	20	EX	500			EXISTING LOAD	20	EX
R	21	CUSTOMER SERVICE SCREENS		360		12	20	1	1	20	EX		500		EXISTING LOAD	22	EX
EX	23	EX. FAN EF-6			500	EX	20	1	1	20	EX			500	EXISTING LOAD	24	EX
R	25	ELECTRIC WATER COOLER	500			12	20	1	1	20	12	360			BEAUTY SHELVING 4	26	R
N	27	WH-4 B		4,150		8	40	2	1	20	12		360		BEAUTY SHELVING 5	28	R
	29				4,150				1	20	12			360	CANDY SHELVING 1	30	R
R	31	BEAUTY SHELVING MONITOR	180			12	20	1	1	20	12	360			CANDY SHELVING 2	32	R
R	33	BEAUTY SHELVING 1		1,200		12	20	1	1	20	12		500		CANDY SHOP END CAP	34	EX
R	35	BEAUTY SHELVING 2			1,200	12	20	1	1	20	12			500	KIDDIE RIDE	36	EX
R	37	BEAUTY SHELVING 3	1,200			12	20	1	1	20	EX	1,200			NON FOOD SHELF LTG	38	EX
EX	39	EXISTING LOAD		500		EX	20	1	1	20	EX		500		EXISTING LOAD	40	EX
EX	41	EXISTING LOAD			500	EX	20	1	1	20	12			360	ROOFTOP RCPTS	42	R
		SUBTOTAL	9,170	7,570	11,500							8,276	10,212	10,572	SUBTOTAL		

TOTAL PHASE A - VA	17,446	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	145	COOLING	16,068	1.00	REFRIG		1.00	
TOTAL PHASE B - VA	17,782	HEATING		0	SIGN/DISP		1.25	
AMPS	148	LIGHTING	3,600	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	22,072	RECEPTACLES	5,640	1.0/.5	EXISTING	13,892	1.00	
AMPS	184	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	57,300	SUPP HEAT	16,600	1.00	SHOW WNDW		1.25	58,200 VA
AMPS	159	MISC EQUIP	1,500	1.00	LTG TRACK		1.00	162 A

PANELBOARD NOTES

PANELBOARD: P (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	WHITE CORD DROP	1,000			EX	20	1	1	20	12	720			AOL COMPUTERS	2	R
	3			2,702					1	20	12		1,000		AOL ORDER CR/PRINTER	4	R
N	5	BAKERY OVEN DECK 1			2,702	10	30	3	1	20	EX			1,000	FREEZER HEAT TAPE	6	EX
	7		2,702						1	20	EX	1,000			FREEZER LIGHTS	8	EX
	9			2,702					1	20	EX		1,000		DOOR HEAT FREEZER	10	EX
N	11	BAKERY OVEN DECK 2			2,702	10	30	3	1	20	EX			1,000	MEAT COOLER LIGHTS	12	EX
	13		2,702						1	20	12	500			AOL AUTO DOOR 1	14	R
	15			2,702					1	20	12		500		AOL AUTO DOOR 2	16	R
N	17	BAKERY OVEN DECK 3			2,702	10	30	3	1	20	EX			1,000	MEAT COOLER HEAT TAPE	18	EX
	19		2,702						1	20	EX	1,000			MILK COOLER LIGHTS	20	EX
R	21	H-5 HOOD CONTROL		500		12	20	1	1	20					SPARE	22	
R	23	AOL CONV RCPTS 1			360	12	20	1	1	20	EX			1,000	WHITE CORD DROP	24	EX
R	25	AOL CONV RCPTS 2	540			12	20	1	1	20					SPARE	26	
EX	27	DELI COOLER LTS		1,000		EX	20	1	1	20	EX		1,000		PRODUCE COOLER LTS	28	EX
	29	SPARE					20	1	1	20					SPARE	30	
	31	SPARE					20	1	1	20	EX	500			S AIR HANDLER GFI	32	EX
R,1	33	LTG - WALK IN BEER COOLER		520		12	20	1	1	20	EX		500		S AIR HANDLER SMOKE DET.	34	EX
R,1	35	LTG - BEER COOLER DRS 1			1,000	12	20	1	1	20	EX			1,000	BAKERY DOOR SPARE ON TOP	36	EX
R	37	BEER COOLER DRS A/S 1	1,000			12	20	1	1	20	EX	500			BAKERY BARKER CASES	38	EX
R,1	39	LTG - BEER COOLER DRS 2		1,000		12	20	1	1	20	EX		500		LEAK DETECTOR SYSTEM	40	EX
R	41	BEER COOLER DRS A/S 2			1,000	12	20	1	1	20	EX			500	CHINESE FRZER HEAT TAPE	42	EX
		SUBTOTAL	10,646	11,126	10,466							4,220	4,500	5,500	SUBTOTAL		

TOTAL PHASE A - VA	14,866	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	124	COOLING		1.00	REFRIG	1,000	1.00	
TOTAL PHASE B - VA	15,626	HEATING		0	SIGN/DISP		1.25	
AMPS	130	LIGHTING	2,520	1.25	KITCHEN	24,318	0.90	
TOTAL PHASE C - VA	15,966	RECEPTACLES	2,620	1.0/.5	EXISTING	13,500	1.00	
AMPS	133	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	46,458	SUPP HEAT	2,000	1.00	SHOW WNDW		1.25	45,656 VA
AMPS	129	MISC EQUIP	1,500	1.00	LTG TRACK		1.00	127 A

PANELBOARD NOTES

1. CONTROL VIA EXISTING LIGHTING CONTROL PANEL

PANELBOARD: S (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: W&S/OFFICES
MOUNTING: RECESSED
LOCATION: STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
N	1	VAV 10-1	750			12	20	2	1	20	12	500			HUMIDOR SHELF LTG	2	R
	3			750					1	20	12		1,200		W&S BEER SIGN	4	R
N	5	VAV 10-2			1,750	12	20	2	1	20	12			160	LTG - BAR RECESSED	6	R
	7		1,750						1	20	12	216			LTG - OVERHEAD RECESSED	8	R
N	9	VAV 10-3		1,000		12	20	2	1	20	12		500		LTG - BACK BAR DISPLAY	10	R
	11				1,000				1	20	12			180	LTG - BAR FLOODS	12	R
N	13	VAV 10-4	1,500			12	20	2				5,356				14	
	15			1,500					3	50	6		5,356		RTU-10 (OFFICES)	16	N
N	17	VAV 10-5			750	12	20	2						5,356		18	
	19		750						1	20	12	200			LTG - BAR TRELLIS	20	R
R	21	DINING COFFEE MAKER		1,800		10	30	2	2	30	10		2,000		W&S VESTIBULE ECH	22	R
	23				1,800									2,000		24	
N	25	DINING CONV RCPTS 3	900			12	20	1	1	20	12	540			BAR TVS 2	26	N
N	27	DINING TVS		360		12	20	1	1	20	12		780		BACK BAR COOLER 1	28	N
N	29	BAR TVS 1			360	12	20	1	1	20	12			780	BACK BAR COOLER 2	30	N
		SUBTOTAL	5,650	5,410	5,660							6,812	9,836	8,476	SUBTOTAL		

TOTAL PHASE A - VA	12,462	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	104	COOLING	16,068	1.00	REFRIG		1.00	
TOTAL PHASE B - VA	15,246	HEATING	11,500	0	SIGN/DISP	1,200	1.25	
AMPS	127	LIGHTING	1,756	1.25	KITCHEN	5,160	0.90	
TOTAL PHASE C - VA	14,136	RECEPTACLES	2,160	1.0/.5	EXISTING		1.00	
AMPS	118	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	41,844	SUPP HEAT	4,000	1.00	SHOW WNDW		1.25	30,567 VA
AMPS	116	MISC EQUIP		1.00	LTG TRACK		1.00	85 A

PANELBOARD NOTES

SIGN/DISPLAY - SIGNAGE & DISPLAY CASE

PANELBOARD: T (EXISTING)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
V	1	SPARE					20	1	1	20	EX	1,200			TRUCK OUTLET HEATER?	2	EX
V	3	SPARE					20	2	1	20	EX		1,000		HVAC CONTROL PANEL	4	EX
	5								1	20	EX			1,000	KCPL/INNOVATOR	6	EX
EX	7	CHEESE CASE FANS	500			EX	20	1	1	20	EX	1,000			KCPL/INNOVATOR	8	EX
	9	EQUIPPED SPACE						1	1	20	12		360		FROZEN CASE RCPT 1	10	R
V	11	SPARE					20	1	1	20	12			360	FROZEN CASE RCPT 2	12	R
	13		3,843						1	20	12	360			FROZEN CASE RCPT 3	14	R
EX	15	MOTOR ROOM HEATER		3,843		EX	40	3	1	20	12		360		FROZEN CASE RCPT 4	16	R
	17				3,843				1	20					SPARE	18	V
	19	EQUIPPED SPACE						1	1	20	EX	1,000			CULLIGAN WATER SYSTEM	20	EX
EX	21	DEMO		500		EX	20	1	2	20					SPARE	22	V
EX	23	SW FROZEN RCPT			500	EX	20	1								24	
	25		7,686						1	20	EX	500			DAIRY COLUMN RCPT	26	EX
EX	27	WALK IN FREEZER		7,686		EX	80	3	1	20	EX		500		DAIRY RCPT	28	EX
	29				7,686				1	20	EX			500	T STAT SOLENOID MEAT COF.	30	EX
		SUBTOTAL	12,029	12,029	12,029							4,060	2,220	1,860	SUBTOTAL		

TOTAL PHASE A - VA	16,089	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	134	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	14,249	HEATING		0	SIGN/DISP		1.25	
AMPS	119	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	13,889	RECEPTACLES	1,440	1.0/.5	EXISTING	42,787	0.80	
AMPS	116	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	44,227	SUPP HEAT		1.00	SHOW WNDW		1.25	35,670 VA
AMPS	123	MISC EQUIP		1.00	LTG TRACK		1.00	99 A

PANELBOARD NOTES

PANELBOARD: U (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OFFICE
MOUNTING: SURFACE
LOCATION: STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1		7,073						1	20	12	720			BAR RCPTS & PRINTER	2	R
N	3	RTU-12 (WINE & SPIRITS)		7,073		4	70	3	1	20	12		540		SUSHI SCALE/TVS	4	V
	5				7,073				1	20	12			190	SUSHI RICE SHEETER	6	V
R	7	W&S VESTUBULE AUTO DOOR	1,000			12	20	1	1	20	12	540			BAR CONV RCPTS	8	R
R	9	SODA ICE MACHINE 2		1,435		12	20	2	1	20	12		540		DINING CONV RCPTS 1	10	R
	11				1,435				1	20	12			540	DINING CONV RCPTS 2	12	R
N	13	W&S DOOR BUZZER	200			12	20	1	1	20	12	264			LTG - CUST RR VANITY	14	R
	15	EQUIPPED SPACE						1	1	20	12		540		HUMAN RESOURCES RCPT 1	16	R
R	17	DIRECTORS OFFICE RCPT 1			540	12	20	1	1	20	12			720	HUMAN RESOURCES RCPT 2	18	R
R	19	DIRECTORS OFFICE RCPT 2	540			12	20	1	1	20	12	360			HALLWAY RCPTS/TIMECLOCK	20	R
R	21	ASSISTANT MGRS RCPT		540		12	20	1	1	20	12		1,000		EMP. LOUNGE FRIDGE 1	22	R
R	23	RESTROOM RCPTS 1			720	12	20	1	1	20	12			1,000	EMP. LOUNGE FRIDGE 2	24	R
R	25	RESTROOM RCPTS 2	720			12	20	1	1	20	12	720			EMP. LOUNGE RCPTS/TV	26	R
R	27	RESTROOM RCPTS/MOTHERS ROOM		720		12	20	1	1	20	EX		500		EMS PANEL	28	EX
N,GF	29	EMP. LOUNGE POP MACH. 1			500	12	20	1	1	20	12			624	LTG - EMP LOUNGE/DEPT HD	30	R
N,GF	31	EMP. LOUNGE POP MACH. 2	500			12	20	1	1	20	12	522			LTG - ASST MGR/DIR OFF/HR	32	R
R	33	EMP. LOUNGE RCPTS		720		12	20	1	1	20	12		600		LTG - DRUM LIGHTS	34	R
R	35	W&S RFLN-2 DEFROST			697	12	20	2	1	20	12			450	LTG - TRACK PENDANTS	36	R
	37		697						1	20	12	200			LTG - CYLINDER LIGHTS	38	R
R	39	W&S RFLN-2 FANS		1,248		12	20	1	1	20	12		60		CP-1	40	R
R	41	ROOFTOP RCPTS			720	12	20	1	1	20	EX			500	HVAC CONTROL PANEL	42	EX
		SUBTOTAL	10,730	11,736	11,685							3,326	3,780	4,024	SUBTOTAL		

TOTAL PHASE A - VA	14,056	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	117	COOLING	21,219	1.00	REFRIG	2,642	1.00	
TOTAL PHASE B - VA	15,516	HEATING		0	SIGN/DISP		1.25	
AMPS	129	LIGHTING	2,660	1.25	KITCHEN	3,060	1.00	
TOTAL PHASE C - VA	15,709	RECEPTACLES	12,440	1.0/.5	EXISTING	1,000	1.00	
AMPS	131	MOTORS	60	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	45,281	SUPP HEAT		1.00	SHOW WNDW		1.25	44,726 VA
AMPS	126	MISC EQUIP	2,200	1.00	LTG TRACK		1.00	124 A

PANELBOARD NOTES

PANELBOARD: V (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: BAKERY
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	DELI PREP DISPOSAL	500			EX	20	1	1	20	EX	1,000			JET	2	EX
EX	3	RANGE RCPT		500		EX	20	1	1	20	10		1,800		CAPPUCCINO MACHINE	4	R
EX	5	RANGE RCPT			500	EX	20	1	1	20	10			1,500	TEA	6	R
EX	7	TURBO OVEN	2,496			EX	30	2	1	20	EX	1,000			EXISTING LOAD	8	EX
	9			2,496					2	20	EX		1,664		DELI TOASTER	10	EX
EX	11	EXISTING LOAD			500	EX	20	1						1,664		12	
	13		456						1	20	12	804			KITCHEN REF. TABLE COOKLINE	14	R
N	15	KEF-3		456		12	20	3	1	20	EX		500		EXISTING LOAD	16	EX
	17				456				1	20	EX			500	RCPT IT RACK PRODUCE	18	EX
EX	19	DELI GAS FRYER	1,200			EX	20	1	2	20	EX	1,664			EXISTING LOAD	20	EX
	21			4,804									1,664			22	
EX	23	DELI FRYER			4,804	EX	50	3	1	20	EX			500	EXISTING LOAD	24	EX
	25		4,804									2,882				26	
EX	27	DELI COFFEE MAKER		2,496		EX	30	1	3	30	EX		2,882		EXISTING LOAD	28	EX
	29				2,496									2,882		30	
	31		4,804						1	20	EX	500			EXISTING LOAD	32	EX
EX	33	DELI FRYER		4,804		EX	50	3	1	20	EX		500		EXISTING LOAD	34	EX
	35				4,804				1	20	EX			500	EXISTING LOAD	36	EX
EX	37	SMOKER	2,496			EX	30	2	1	20	10	720			8 HEAD SODA MACHINE 1	38	R
	39			2,496					1	20	10		720		8 HEAD SODA MACHINE 2	40	R
N	41	FRESH JUICE MACHINE			410	12	20	1	1	20	10			1,800	SODA ICE MAKER 1	42	R
		SUBTOTAL	16,756	18,052	13,970							8,570	9,730	9,346	SUBTOTAL		

TOTAL PHASE A - VA	25,326	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	211	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	27,782	HEATING		0	SIGN/DISP		1.25	
AMPS	232	LIGHTING		1.25	KITCHEN	7,754	0.65	
TOTAL PHASE C - VA	23,316	RECEPTACLES		1.0/.5	EXISTING	67,302	1.00	
AMPS	194	MOTORS	1,368	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	76,424	SUPP HEAT		1.00	SHOW WNDW		1.25	73,710 VA
AMPS	212	MISC EQUIP		1.00	LTG TRACK		1.00	205 A

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

REVISION	DATE BY
2 ASI #2	01/07/21
3 ASI #3	01/26/21
4 ASI #4	02/05/21
5 ASI #5	03/19/21
7 ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 **FAX** 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL
STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER
04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER: SL	CHECKED BY: HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E1.2

VINCENT G. MASILIONIS
4/20/2021 3:20:10 PM

PANELBOARD: VV (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: BACK OF HOUSE
MOUNTING: RECESSED
LOCATION: DRY STORAGE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	BACKROOM LIGHTS	1,200			EX	20	1	1	20	EX	1,000			UNIT HEATERS	2	EX
EX	3	BACKROOM LIGHTS		1,200		EX	20	1	1	20	12		360		DSD ROOM RCPTS	4	R
EX	5	BACKROOM LIGHTS			1,200	EX	20	1	1	20	12			252	CS-1	6	R
EX	7	BACKROOM LIGHTS	1,200			EX	20	1	1	20	EX	1,200			POP STORAGE LTG	8	EX
EX	9	DOCK RCPT		500		EX	20	1	1	20	EX		1,200		POP STORAGE LTG	10	EX
	11	EQUIPPED SPACE						1	1	20	EX			500	DSD ROOM AC	12	EX
	13		1,921						1	20	EX	500			EXISTING LOAD	14	EX
EX	15	EAST DOCK LEVELER		1,921		EX	20	3	1	20	EX		1,000		FLOOR MACHINE RCPT	16	EX
	17				1,921				1	20	12			1,000	EMP. LOUNGE MICROWAVE	18	R
	19		1,921						1	20					SPARE	20	V
EX	21	WEST DOCK LEVELER		1,921		EX	20	3	1	20	12		500		TF-1	22	R
	23				1,921				1	20	12			500	TF-2	24	R
	25		4,804						1	20	EX	1,000			BAKERY OVEN & AROMA FAN	26	EX
EX	27	SOUTH COMPACTOR		4,804		EX	50	3					456			28	
	29				4,804				3	20	12			456	KEF-8	30	N
EX	31	RCPTS SOUTH ENTRY	500			EX	20	1				456				32	
EX	33	RCPTS SOUTH ENTRY		500		EX	20	1	1	20	12		500		H-8 HOOD CONTROL	34	R
EX	35	RCPTS SOUTH ENTRY			500	EX	20	1	1	20	12			270	HIBACHI COLD BAR	36	R
EX	37	RCPTS SOUTH ENTRY	500			EX	20	1	1	20	12	500			H-2 HOOD CONTROL	38	R
EX	39	RCPTS SOUTH ENTRY		500		EX	20	1	1	20	12		180		CHECKOUT PRINTER	40	R
EX	41	RCPT ALARM BACK ROOM			500	EX	20	1	1	20	EX			1,000	RCPT BACK DOOR/COKE MACH.	42	EX
		SUBTOTAL	12,046	11,346	10,846							4,656	4,196	3,978	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	16,702	COOLING		1.00	REFRIG		1.00	
AMPS	139	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	15,542	LIGHTING		1.25	KITCHEN	1,270	1.00	
AMPS	130	RECEPTACLES	540	1.0/.5	EXISTING	42,638	1.00	
TOTAL PHASE C - VA	14,824	MOTORS	1,620	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	124	SUPP HEAT		1.00	SHOW WNDW		1.25	47,068 VA
TOTAL PNLBD - VA	47,068	MISC EQUIP	1,000	1.00	LTG TRACK		1.00	131 A
AMPS	131							

PANELBOARD NOTES

PANELBOARD: W (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
	1		1,741						1	20	EX	500			RTU #3 SMOKE DETECTOR	2	EX
R	3	MAU-1 CONDENSER 1		1,741		12	20	3	1	20	EX		500		BAGIN BOX	4	EX
	5				1,741				1	20	EX			500	EXISTING LOAD	6	EX
	7		2,570						1	20	EX	500			EXISTING LOAD	8	EX
N	9	MAU-1 CONDENSER 2		2,570		10	30	3					793			10	
	11				2,570				3	20	12			793	KEF-2	12	N
	13		733									793				14	
R	15	KEF-1A		733		12	20	3	1						EQUIPPED SPACE	16	V
	17				733				1	20	EX			500	CHINESE FRYER, PRINTER	18	EX
	19		456						1	20	12	500			ASIAN/HIBACHI TV MENUS	20	R
R	21	KEF-1B		456		12	20	3	1	20	12		500		HICKORY/REGISTERS TV MENUS	22	R
	23				456				1	20	12			1,600	PIZZA REF TABLE	24	R
	25		6,725						1	20	EX	500			PIZZA HOT LAMPS	26	EX
EX	27	RTU-3 (DINING)		6,725		EX	70	3	1	20	12		1,120		KITCHEN REACH IN FREEZER	28	R
	29				6,725				1	20	12			360	PIZZA TVS	30	R
	31	EQUIPPED SPACE						1	1	20	12	480			PIZZA OVEN VIA HCP	32	N,GF
EX	33	ROOF TOP #3 GFI		500		EX	20	1	1	20	12		1,150		PIZZA DOUGH PRESS	34	R
	35	EQUIPPED SPACE						1	1	20	12			500	PIZZA SCALE AND LOWERATOR	36	R
	37		7,686						1	20	12	756			PIZZA - EF-4	38	R
EX	39	EXISTING LOAD		7,686		EX	80	3	1	20	12		500		HOOD H-4 CONTROL	40	R
	41				7,686				1	20	EX			500	PIZZA COLUMN RCPT	42	EX
		SUBTOTAL	19,911	20,411	19,911							4,029	4,563	4,753	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	23,940	COOLING		1.00	REFRIG		1.00	
AMPS	200	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	24,974	LIGHTING		1.25	KITCHEN	4,850	0.70	
AMPS	208	RECEPTACLES	1,860	1.0/.5	EXISTING	47,233	1.00	
TOTAL PHASE C - VA	24,664	MOTORS	19,635	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	206	SUPP HEAT		1.00	SHOW WNDW		1.25	72,123 VA
TOTAL PNLBD - VA	73,578	MISC EQUIP		1.00	LTG TRACK		1.00	200 A
AMPS	204							

PANELBOARD NOTES

PANELBOARD: X (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: KITCHEN
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
R	1	CHINESE PRINTERS	360			12	20	1				4,323				2	
R	3	CHINESE RICE WARMER/LOW.		500		12	20	1	3	50	6		4,323		BAKERY PROOFER	4	N
R	5	CHINESE REF. TABLE			1,080	12	20	1						4,323		6	
	7		2,954						1	20	12	500			BAKERY PROOFER CONTROL	8	R
R	9	DELI DISHWASHER		2,954		10	30	3	1	20	12		360		BAKERY FLOOR BOXES	10	R
	11				2,954				2	20	EX			1,664	BACK RM ICE MACHINE	12	EX
EX	13	PANINI PRESS	1,664			EX	20	2				1,664				14	
	15			1,664					1	20	12		600		WH-1 A	16	R
R	17	KITCHEN OIL SYSTEM			1,320	12	20	1	1	20	12			600	WH-1 B	18	R
EX	19	EXISTING LOAD	500			EX	20	1	1	30	EX	500			EXISTING LOAD	20	EX
EX	21	EXISTING LOAD		500		EX	20	1	2	20	EX		1,664		EXISTING LOAD	22	EX
EX	23	EXISTING LOAD			500	EX	20	1						1,664		24	
EX	25	EXISTING LOAD	500			EX	20	1				5,440				26	
EX	27	PRODUCE BUG LIGHT		500		EX	20	1	3	60	6		5,440		MAU-1 FANS	28	N
EX	29	WINE TASTING RCPT			500	EX	20	1						5,440		30	
EX	31	WINE TASTING RCPT	500			EX	20	1	1	20	EX	500			CLG RCPT FRUIT & JUICE RCPT	32	EX
R	33	BAKERY WRAPPER		500		12	20	1	1	20	12		1,375		CHINESE HEAT LAMPS 1	34	R
R	35	BAKERY SCALES 2			360	12	20	1	1	20	12			1,375	CHINESE HEAT LAMPS 2	36	R
EX	37	BAKERY DISPLAY CASE	500			EX	20	1				9,607				38	
EX	39	TV RCPT		500		EX	20	1	3	100	EX		9,607		BAKERY PAN WASH	40	EX
EX	41	TV RCPT			500	EX	20	1						9,607		42	
		SUBTOTAL	6,978	7,118	7,214							22,534	23,369	24,673	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	29,512	COOLING		1.00	REFRIG		1.00	
AMPS	246	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	30,487	LIGHTING	2,750	1.25	KITCHEN	15,049	0.80	
AMPS	254	RECEPTACLES	1,080	1.0/.5	EXISTING	44,805	0.80	
TOTAL PHASE C - VA	31,887	MOTORS	25,182	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	266	SUPP HEAT	1,200	1.00	SHOW WNDW		1.25	80,603 VA
TOTAL PNLBD - VA	91,886	MISC EQUIP	1,820	1.00	LTG TRACK		1.00	224 A
AMPS	255							

PANELBOARD NOTES

PANELBOARD: AA1 (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: FRONT OF HOUSE
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	JEWELRY GONDOLA	500			EX	20	1	1	20	EX	500			DRY CLEAN & POSTAL IG	2	EX
EX	3	GONDOLA		500		EX	20	1	1	20	EX		1,000		2014 WATER DISP.	4	EX
EX	5	S POP MACHINE RCPTS			1,000	EX	20	1	1	20	EX			500	DEMO RCPT WEST END	6	EX
EX	7	S POP MACHINE RCPTS	1,000			EX	20	1	1	20	EX	1,000			EXISTING LOAD	8	EX
EX	9	EXISTING LOAD		1,000		EX	20	1	1	20	EX		1,000		EXISTING LOAD	10	EX
EX	11	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	EXISTING LOAD	12	EX
EX	13	EXISTING LOAD	1,000			EX	20	1	1	20	EX	1,000			EXISTING LOAD	14	EX
EX	15	EXISTING LOAD		1,000		EX	20	1	1	30	EX		1,000		COFFEE GRINDER	16	EX
EX	17	EXISTING LOAD			1,000	EX	20	1	2	40	EX			3,328	EXISTING LOAD	18	EX
EX	19	EXISTING LOAD	1,000			EX	20	1				3,328				20	
EX	21	EXISTING LOAD		1,000		EX	20	1	1	20	EX		1,000		EXISTING LOAD	22	EX
EX	23	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	EXISTING LOAD	24	EX
EX	25	EXISTING LOAD	1,664			EX	20	2	1	20	12	1,000			RED BOX POWER POLE	26	R
	27			1,664					1	20	EX		500		POLE LIGHT RCPT	28	EX
EX	29	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	POP MACHINE	30	EX
EX	31	EXISTING LOAD	1,000			EX	20	1	1	20	EX	1,000			POP MACHINE	32	EX
EX	33	SANDWICH CASE		2,496		EX	30	2	1	20	EX		1,000		POP MACHINE	34	EX
	35				2,496				1	20	EX			1,000	LOTTO MACHINE	36	EX
EX	37	RCPT AT SANDWICH CASE	500			EX	20	1	1	20	EX	1,000			MILK COOLER	38	EX
EX	39	EXISTING LOAD		1,000		EX	20	1	1	20	12		180		CART CHARGER 1	40	R
EX	41	EXISTING LOAD			1,000	EX	20	1	1	20	12			180	CART CHARGER 2	42	R
		SUBTOTAL	6,664	8,660	8,496							8,828	5,680	8,008	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	15,492	COOLING		1.00	REFRIG		1.00	
AMPS	129	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	14,340	LIGHTING		1.25	KITCHEN		1.00	
AMPS	120	RECEPTACLES	1,360	1.0/.5	EXISTING	44,976	1.00	
TOTAL PHASE C - VA	16,504	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	138	SUPP HEAT		1.00	SHOW WNDW		1.25	46,336 VA
TOTAL PNLBD - VA	46,336	MISC EQUIP		1.00	LTG TRACK		1.00	129 A
AMPS	129							

PANELBOARD NOTES

PANELBOARD: AA2 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP2
AIC RATING: 10000 FULLY RATED
SERVES: LIQUOR
MOUNTING: RECESSED
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	LIQUOR NEON - FRONT DOOR	1,200			EX	20	1	2	20	12	750			VAV 6-5	2	N
EX	3	RED BULL COOLER		1,200		EX	20	1					750			4	
EX	5	CIGARETTE SIGNAGE			1,200	EX	20	1	1	20	12			500	DSW/JF LOCKERS	6	R
EX	7	LIQUOR COUNTER REGISTERS	500			EX	20	1	1	20	EX	500			LOTTO MACHINE	8	EX
EX	9	? ROOM RCPTS		500		EX	20	1	1	20	EX		500		BAG ICE STORAGE	10	EX
EX	11	LIQUOR NEON - NORTH WALL			1,200	EX	20	1	1	20	12			360	DSW/JF RCPTS	12	R
EX	13	CORD DROP AISLE 15	500			EX	20	1	1	20	12	180			DSW/JF CHECKOUT MONITOR	14	R
EX	15	CORD DROP AISLE 17		500		EX	20	1	2	50					SPARE	16	EX
N	17	SALES FLOOR - GRINDER 1			1,000	12	20	2								18	
	19		1,000						1	20	12	540			DSW DIGITAL WALL 2	20	R
N	21	SALES FLOOR - GRINDER 2		1,000		12	20	2	1	20	12		540		DSW DIGITAL WALL 3	22	R
	23				1,000									5,356		24	
N	25	VAV 6-1	3,000			8	40	2	3	50	6	5,356			RTU-6 (PHARMACY)	26	R
	27			3,000									5,356			28	
N	29	VAV 6-2			2,750	8	40	2	2	25					SPARE	30	V
	31		2,750													32	
N	33	VAV 6-3		1,250		12	20	2	1	20					SPARE	34	V
	35				1,250											36	
N	37	VAV 6-4	2,500			8	40	2	3	70					SPARE	38	V
	39			2,500												40	
V	41	SPARE					20	1	1	20					SPARE	42	V
		SUBTOTAL	11,450	9,950	8,400							7,326	7,146	6,216	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	18,776	COOLING	16,068	0	REFRIG		1.00	
AMPS	156	HEATING	20,500	1.00	SIGN/DISP		1.25	
TOTAL PHASE B - VA	17,096	LIGHTING		1.25	KITCHEN	4,000	1.00	
AMPS	142	RECEPTACLES	1,620	1.0/.5	EXISTING	7,800	1.00	
TOTAL PHASE C - VA	14,616	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	122	SUPP HEAT		1.00	SHOW WNDW		1.25	34,420 VA
TOTAL PNLBD - VA	50,488	MISC EQUIP	500	1.00	LTG TRACK		1.00	96 A
AMPS	140							

PANELBOARD NOTES

PANELBOARD: AB (RELOCATED)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP2
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: RECESSED
LOCATION: ABOVE MILK/DAIRY COOLER

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	DAIRY ISLAND CASES	500			EX	20	1	1	20	EX	1,200			DAIRY AREA LTG	2	EX
EX	3	DAIRY ISLAND CASES		500		EX	20	1	1	20	EX		1,200		DAIRY AREA LTG	4	EX
EX	5	DAIRY ISLAND RCPT			500	EX	20	1	1	20	EX			1,200	DAIRY AREA LTG	6	EX
EX	7	DAIRY CASES N & E WALLS	500			EX	20	1	1	20	EX	1,200			DAIRY AREA LTG	8	EX
EX	9	DAIRY CASES N & E WALLS		500		EX	20	1	1	20	EX		500		EXISTING LOAD	10	EX
EX	11	DAIRY ISLAND RCPTS			500	EX	20	1	1	20	EX			500	EXISTING LOAD	12	EX
EX	13	DAIRY ISLAND CASES	500			EX	20	1	1	20	EX	500			NORTH EXIT DOOR ALARM	14	EX
EX	15	DAIRY ISLAND CASES		500		EX	20	1	1	20	EX		500		WEST WALL DAIRY CASES	16	EX
EX	17	COMPRESSOR RACK CTRL			500	EX	20	1	1	20	EX			500	WEST WALL DAIRY CASES	18	EX
EX	19	~~LTS ABOVE RACK~~	500			EX	20	1	1	20	EX	500			WEST WALL DAIRY CASES	20	EX
R	21	COOLER DR A/S HTRS 1		500		12	20	1	1	20	EX		500		DAIRY CEILING FANS	22	EX
R	23	COOLER DR LTS 1			500	12	20	1	1	20					SPARE	24	V
EX	25	~~CULLIGAN H20 DISP~~	500			EX	20	1	1	20	EX	500			~~PANEL RCPT~~	26	EX
R	27	COOLER DR A/S HTRS 2		500		12	20	1	2	50	6		3,875		AC-1 A	28	N
R	29	COOLER DR LTS 2			500	12	20	1						3,875	AISLES ONLINE	30	
	31		4,804						2	45	6	3,600			AC-1 B	32	N
EX	33	EXISTING LOAD		4,804		EX	50	3					3,600		AISLES ONLINE	34	
	35				4,804				2	60	6			5,408	FCU-1 A	36	N
	37	EQUIPPED SPACE						1				5,408			AISLES ONLINE	38	
N	39	CU-1		2,912		6	45	2	2	45	6		4,472		FCU-1 B	40	N
	41	AISLES ONLINE			2,912									4,472	AISLES ONLINE	42	
		SUBTOTAL	7,304	10,216	10,216							12,908	14,647	15,955	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	20,212	COOLING		1.00	REFRIG		1.00	
AMPS	168	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	24,863	LIGHTING		1.25	KITCHEN		1.00	
AMPS	207	RECEPTACLES		1.0/.5	EXISTING	28,712	1.00	
TOTAL PHASE C - VA	26,171	MOTORS	40,534	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	218	SUPP HEAT		1.00	SHOW WNDW		1.25	71,246 VA
TOTAL PNLBD - VA	71,246	MISC EQUIP	2,000	1.00	LTG TRACK		1.00	198 A
AMPS	198							

PANELBOARD NOTES

PANELBOARD: BB (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OF HOUSE
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
R	1	CHECKSTAND 8 DIRTY	500			12	20	1	1	20	12	500			CHECKSTAND 9 DIRTY	2	R
R	3	CHECKSTAND 10 DIRTY		500		12	20	1	1	20					SPARE	4	V
R	5	SELF CHECKOUT 1 DIRTY			500	12	20	1	1	20					SPARE	6	V
R	7	SELF CHECKOUT 4 DIRTY	500			12	20	1	1	20	12	500			SELF CHECKOUT 3 DIRTY	8	R
R	9	SELF CHECKOUT 2 DIRTY		500		12	20	1	1	20	12		500		CHECKSTAND 1 DIRTY	10	R
R	11	CHECKSTAND 2 DIRTY			500	EX	20	1	1	20	12			500	CHECKSTAND 3 DIRTY	12	R
R	13	LTG - PHARMACY	486			12	20	1	1	20	12	500			CHECKSTAND 4 DIRTY	14	R
R	15	LTG - PHARMACY SOFFIT		144		12	20	1	1	20	12		500		CHECKSTAND 5 DIRTY	16	R
R	17	LTG - CLINIC			504	12	20	1	1	20	12			500	CHECKSTAND 6 DIRTY	18	R
R	19	DSW DIGITAL WALL 1	540			12	20	1	1	20	12	500			CHECKSTAND 7 DIRTY	20	R
R	21	DSW/JF CHECKOUT RCPTS		360		12	20	1	1	20	12		1,200		E VESTIBULE CART STERILIZER	22	R
R	23	PREMIUM CANDY			1,000	12	20	1	1	20					SPARE	24	V
EX	25	PHARMACY TUBE BLOWER	2,496			EX	30	2	1	20					SPARE	26	V
	27			2,496					1	20					SPARE	28	V
N	29	WH-6			1,500	12	20	2	1	20					SPARE	30	V
	31		1,500						1	20					SPARE	32	V
	33	EQUIPPED SPACE						1	2	50	EX		4,160		EXISTING LOAD	34	EX
R	35	LTG - FLORAL TRACK			64	12	20	1						4,160		36	
EX	37	POP MACHINES	500			EX	20	1	1	20					SPARE	38	V
EX	39	EXISTING LOAD		1,000		EX	20	2	1						EQUIPPED SPACE	40	
	41				1,000				1	20					SPARE	42	V
		SUBTOTAL	6,522	5,000	5,068							2,000	6,360	5,160	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	8,522	COOLING		1.00	REFRIG		1.00	
AMPS	71	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	11,360	LIGHTING	1,198	1.25	KITCHEN		1.00	
AMPS	95	RECEPTACLES	2,600	1.0/.5	EXISTING	8,320	1.00	
TOTAL PHASE C - VA	10,228	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	85	SUPP HEAT	3,000	1.00	SHOW WNDW		1.25	30,410 VA
TOTAL PNLBD - VA	30,110	MISC EQUIP	14,992	1.00	LTG TRACK		1.00	84 A
AMPS	84							

PANELBOARD NOTES

PANELBOARD: LL (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 100A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: PNLBD L
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OF HOUSE
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	NEW COMM RACK RCPT	500			EX	20	1	1	20	12	360			CASH ACCT COMPUTER	2	R,EM
FA,EX	3	FIRE ALARM PANEL		500		EX	20	1	1	20	EX		500		EXISTING LOAD	4	EX
EX	5	RCPT SECURITY ROOM			500	EX	20	1	1	20					SPARE	6	V
EX	7	PHOTO CELL FOR R	500			EX	20	1	1	20	EX	500			EXISTING LOAD	8	EX
V	9	SPARE					20	1	1	20	EX		500		SECURITY PANEL RCPT	10	EX
EX	11	EXISTING LOAD			500	EX	20	1	1	20	12			288	EM LTG - CUST SERVICE/FOH	12	R,EM
EX	13	EXISTING LOAD	500			EX	20	1	1	20	12	630			EM LTG - CLINIC/PHARMACY	14	R,EM
EX	15	AUTO DOOR OPENER N		500		EX	20	1	1	20	EX		500		CARRY OUT DOOR OPENER	16	EX
EX	17	AUTO DOOR OPENER N			500	EX	20	1	1	20	EX			500	SAFE	18	EX
EX	19	AUTO DOOR OPENER S	500			EX	20	1	1	20	EX	1,200			SECURITY ROOM LTG'	20	EX
EX	21	AUTO DOOR OPENER S		500		EX	20	1	1	20					SPARE	22	V
EX	23	S DOOR SPARE			500	EX	20	1	1	20					SPARE	24	V
EX	25	RED BOX, LOTTO, COINSTAR	500			EX	20	1	1	20					SPARE	26	V
EX	27	EXISTING LOAD		500		EX	20	1	2	20	EX		1,664		EMERGENCY POLE LIGHT	28	EX
EX	29	EXISTING LOAD			500	EX	20	1						1,664		30	
		SUBTOTAL	2,500	2,000	2,500							2,690	3,164	2,452	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	5,190	COOLING		1.00	REFRIG		1.00	
AMPS	43	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	5,164	LIGHTING	918	1.25	KITCHEN		1.00	
AMPS	43	RECEPTACLES	360	1.0/.5	EXISTING	14,028	1.00	
TOTAL PHASE C - VA	4,952	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	41	SUPP HEAT		1.00	SHOW WNDW		1.25	15,536 VA
TOTAL PNLBD - VA	15,306	MISC EQUIP		1.00	LTG TRACK		1.00	43 A
AMPS	42							

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS — V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.	LCK	HANDLE PADLOCKABLE-OFF DEVICE.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.	LO	HANDLE-ON CLAMP.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.	N	PROVIDE NEW CIRCUIT BREAKER.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.	OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.	PS	POWER-SWITCHING CIRCUIT BREAKER.
EX	EXISTING.	PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.	R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
FA	RED/HANDLE-ON CLAMP.	RP	CIRCUIT VIA RELAY PANEL.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).	ST	SHUNT TRIP CIRCUIT BREAKER.
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).	V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.	VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
IG	ISOLATED GROUND CIRCUIT.	Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.
L#	LIGHTING CONTROL SCHEME NUMBER.		

NOT ALL ABBREVIATIONS ARE USED.

REVISION		DATE BY
2	ASI #2	01/07/21
4	ASI #4	02/05/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL
STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER
04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E1.3

VINCENT G. MASILIONIS
4/20/2021 3:20:23 PM

REVISION		DATE BY
4	ASI #4	02/05/21
7	ASI #7	04/16/21

PROTOCOL A (PCA) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 350A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUSBAR: 1

PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL A

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				3,831			ZBD57KCE	2	
LCK	3	(A1) 60 IDD6SU FANS		720		12	20	1	3	40	8		3,831		COMP #1	4	LCK
LCK	5	(A1) 60 IDD6SU LTS			684	12	20	1						3,831		6	
LCK	7	(A2) KR26A089 FANS	216			12	20	1				3,831			ZB57KCE	8	
	9	EQUIPPED SPACE					20	1	3	40	8		3,831		COMP #2	10	LCK
	11	EQUIPPED SPACE					20	1						3,831		12	
	13	EQUIPPED SPACE					20	1				3,831			ZB57KCE	14	
	15	EQUIPPED SPACE					20	1	3	40	8		3,831		COMP #3	16	LCK
	17	EQUIPPED SPACE					20	1						3,831		18	
	19	EQUIPPED SPACE					20	1	1	20	12	288			(A9) 29 IM05R FANS	20	LCK
	21	EQUIPPED SPACE					20	1	1	20	12		528		(A9) 29 IM05R LTS	22	LCK
LCK	23	(A6) (3)KR46A216 FANS			1,152	12	20	1	1	20	12			996	(A10) FSP9642R+FSP7242R	24	LCK
LCK	25	(A8) IM05R FANS	288			12	20	1	1	20	12	480			(A12) 62 ID5SL FANS	26	LCK
LCK	27	(A8) IM05R LTS		528		12	20	1	1	20	12		864		(A12) 62 ID5SL LTS	28	LCK
	29	EQUIPPED SPACE						1	1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZB57KCE	3,831						1						EQUIPPED SPACE	32	
LCK	33	COMP #4		3,831		8	40	3	1	20	12		300		(A11) 38 ID5SL FANS	34	LCK
	35				3,831				1	20	12			528	(A11) 38 ID5SL LTS	36	LCK
	37	ZB57KCE	3,831						1						EQUIPPED SPACE	38	
LCK	39	COMP #5		3,831		8	40	3	1						EQUIPPED SPACE	40	
	41				3,831				1						EQUIPPED SPACE	42	
	43	ZB57KCE	3,831						1						EQUIPPED SPACE	44	
LCK	45	COMP #6		3,831		8	40	3	1						EQUIPPED SPACE	46	
	47				3,831				1						EQUIPPED SPACE	48	
	49		2,594						1						EQUIPPED SPACE	50	
LCK	51	CONDENSER BREAKER		2,594		10	30	3	1						EQUIPPED SPACE	52	
	53				2,594				2	20	12			240	(A) CRANKCASE HEATERS	54	LCK
LCK	55	(A13) ESGMS FANS	36			12	20	1				240				56	
LCK	57	(A13) ESGMS LTS		96		12	20	1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	15,707	15,431	15,923							12,501	13,185	13,257	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	28,208	COOLING		1.00	REFRIG	76,740	1.00	
AMPS	235	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	28,616	LIGHTING	3,228	1.25	KITCHEN		1.00	
AMPS	238	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	29,180	MOTORS	4,476	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	243	SUPP HEAT	480	1.00	SHOW WNDW		1.25	86,811 VA
TOTAL PNLBD - VA	86,004	MISC EQUIP		1.00	LTG TRACK		1.00	241 A
AMPS	239							

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL B (PCB) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 400A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUSBAR: 1

PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL B

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,940			ZFD25KVE	2	
LCK	3	(B1) (3)KR54E185 FANS		720		12	20	2	3	40	8		2,940		COMP #1	4	LCK
	5	FAN KILL RELAY			720									2,940		6	
LCK	7	(B1) KR54E185 DEF HTR	2,604			10	30	2				2,940			ZF25KVE	8	
	9			2,604					3	40	8		2,940		COMP #2	10	LCK
LCK	11	(B1) KR54E185 DEF HTR			2,604	10	30	2						2,940		12	
	13		2,604									3,276			ZF28KVE	14	
LCK	15	(B1) KR54E185 DEF HTR		2,604		10	30	2	3	40	8		3,276		COMP #3	16	LCK
	17				2,604									3,276		18	
LCK	19	(B4) (2)KR34E111 FANS	288			12	20	2	2	20	12	240			(B5) KR54E185 FANS	20	LCK
	21	FAN KILL RELAY		288									240		FAN KILL RELAY	22	
LCK	23	(B4) KR34E11 DEF HTR			1,560	10	30	2	2	30	10			2,604	(B5) KR54E185 DEF HTR	24	LCK
	25		1,560									2,604				26	
LCK	27	(B4) KR34E11 DEF HTR		1,560		10	30	2	1						EQUIPPED SPACE	28	
	29				1,560				1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZF25KVE	3,372						2	20	12	288			(B6) (3)GL46D180 FANS	32	LCK
LCK	33	COMP #4		3,372		8	40	3					288		FAN KILL RELAY	34	
	35				3,372				2	30	10			3,336	(B6) (2)GL46D180 DEF HTR	36	LCK
	37	ZB57KCE	3,828									3,336				38	
LCK	39	COMP #5		3,828		8	40	3	2	30	10		1,668		(B6) GLD46D180 DEF HTR	40	LCK
	41				3,828									1,668		42	
	43	ZB57KCE	3,828						2	20	12	120			(B7) GL56D225 FANS	44	LCK
LCK	45	COMP #6		3,828		8	40	3					120			46	
	47				3,828				2	30	10			2,088	(B7) GL56D225 DEF HTR	48	LCK
	49		2,592									2,088				50	
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1	20	12		576		(B8) (4)GL46A180 FANS	52	LCK
	53				2,592				1						EQUIPPED SPACE	54	
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1	20	12		1,152		**(B9) 16 BGGS LTS**	58	LCK
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	21,756	21,396	22,668							17,832	13,200	18,852	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	39,588	COOLING		1.00	REFRIG	68,328	1.00	
AMPS	330	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	34,596	LIGHTING	1,152	1.25	KITCHEN		1.00	
AMPS	288	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	41,520	MOTORS	3,888	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	346	SUPP HEAT	41,256	1.00	SHOW WNDW		1.25	115,992 VA
TOTAL PNLBD - VA	115,704	MISC EQUIP		1.00	LTG TRACK		1.00	322 A
AMPS	321							

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL C (PCC) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 400A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUSBAR: 1

PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL C

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,940			ZFD25KVE	2	
LCK	3	(C1) 5 DR RLNI FANS/HTRS		996		12	20	1	3	40	8		2,940		COMP #1	4	LCK
LCK	5	(C1) 5 DR RLNI FANS/HTRS			996	12	20	1						2,940		6	
LCK	7	(C1) 2+5 DR RLN+RLNI F/H	1,356			12	20	1				2,940			ZF28KVE	8	
LCK	9	(C1) 2+15 DR RLN+RLNI LTS		348		12	20	1	3	40	8		2,940		COMP #2	10	LCK
	11	EQUIPPED SPACE						1						2,940		12	
	13	EQUIPPED SPACE						1				2,940			ZF28KVE	14	
	15	EQUIPPED SPACE						1	3	40	8		2,940		COMP #3	16	LCK
LCK	17	(C3) 5 DR RLNI FANS/HTRS			996	12	20	1						2,940		18	
LCK	19	(C3) 5 DR RLNI FANS/HTRS	996			12	20	1	1	20	12	348			(C4) 2+15 DR RLN+RLNI LTS	20	LCK
LCK	21	(C3) 2+5 DR RLN+RLNI F/H		1,356		12	20	1	1	20	12		996		(C5) 5 DR RLNI FANS/HTRS	22	LCK
LCK	23	(C3) 2+15 DR RLN+RLNI LTS			348	12	20	1	1	20	12			996	(C5) 5 DR RLNI FANS/HTRS	24	LCK
LCK	25	(C4) 5 DR RLN FANS/HTRS	996			12	20	1	1	20	12	1,356			(C5) 2+5 DR RLN+RLNI F/H	26	LCK
LCK	27	(C4) 5 DR RLN FANS/HTRS		996		12	20	1	1	20	12		348		(C5) 2+15 DR RLN+RLNI LTS	28	LCK
LCK	29	(C4) 2+5 DR RLN+RLNI F/H			1,356	12	20	1	1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZF28KVE	3,276						1	20	12	996			(C6) 5 DR RLNI FANS/HTRS	32	LCK
LCK	33	COMP #4		3,276		8	40	3	1	20	12		996		(C6) 5 DR RLNI FANS/HTRS	34	LCK
	35				3,276				1	20	12			1,356	(C6) 2+5 DR RLN+RLNI F/H	36	LCK
	37	ZF28KVE	3,276						1	20	12	348			(C6) 2+15 DR RLN+RLNI LTS	38	LCK
LCK	39	COMP #5		3,276		8	40	3	1	20	12		996		(C7) 5 DR RLN FANS/HTRS	40	LCK
	41				3,276				1	20	12			996	(C7) 5 DR RLN FANS/HTRS	42	LCK
	43	ZF28KVE	3,276						1	20	12	1,572			(C7) 8 DR RLN FANS/HTRS	44	LCK
LCK	45	COMP #6		3,276		8	40	3	1	20	12		348		(C7) 18 DR RLN LTS	46	LCK
	47				376				1	20	12			996	(C8) 5 DR RLN FANS/HTRS	48	LCK
	49		2,592						1	20	12	996			(C8) 5 DR RLN FANS/HTRS	50	LCK
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1	20	12		996		(C8) 5 DR RLN FANS/HTRS	52	LCK
	53				2,592				1	20	12			348	(C8) 18 DR RLN LTS	54	LCK
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
	BUSBAR: 3																
LCK	61	(C9) 5 DR RLN FANS/HTRS	996			12	20	1	1						EQUIPPED SPACE	62	
LCK	63	(C9) 5 DR RLN FANS/HTRS		996		12	20	1	1						EQUIPPED SPACE	64	
LCK	65	EQUIPPED SPACE						1	1						EQUIPPED SPACE	66	
LCK	67	(C9) 10 DR RLN LTS	300			12	20	1	1						EQUIPPED SPACE	68	
LCK	69	(C10) 5 DR RLN FANS/HTRS		996		12	20	1	1						EQUIPPED SPACE	70	
LCK	71	(C10) 5 DR RLN FANS/HTRS			996	12	20	1	1	20	12			1,572	**(C11) 4 DR RLN FANS/HTRS**	72	LCK
LCK	73	(C10) 10 DR RLN LTS	300			12	20	1	1	20	12	996			**(C11) 5 DR RLN FANS/HTRS**	74	LCK
LCK	75	(C2) 5 DR RLNI FANS/HTRS		996		12	20	1	1	20	12		276		**(C11) 9 DR RLN LTS**	76	LCK
LCK	77	(C2) 5 DR RLNI FANS/HTRS			996	12	20	1	1						EQUIPPED SPACE	78	
LCK	79	(C2) 2+5 DR RLN+RLNI F/H	1,356			12	20	1	1						EQUIPPED SPACE	80	
LCK	81	(C2) 2+15 DR RLN+RLNI LTS		348		12	20	1	1						EQUIPPED SPACE	82	
LCK	83	(C12) 8+E FW FANS/HTRS			288	12	20	1	1						EQUIPPED SPACE	84	
LCK	85	(C13) 8+E FW FANS/HTRS	288			12	20	1	1						EQUIPPED SPACE	86	
LCK	87	(C14) FWE FANS/HTRS		72		12	20	1	1						EQUIPPED SPACE	88	
LCK	89	(C15) FWE FANS/HTRS			72	12	20	1	1						EQUIPPED SPACE	90	
		SUBTOTAL	20,088	19,524	15,568							15,432	13,776	15,084	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	35,520	COOLING		1.00	REFRIG	60,820	1.00	
AMPS	296	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	33,300	LIGHTING	3,660	1.25	KITCHEN		1.00	
AMPS	278	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	30,652	MOTORS	33,912	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	255	SUPP HEAT		1.00	SHOW WNDW		1.25	100,387 VA
TOTAL PNLBD - VA	99,472	MISC EQUIP		1.00	LTG TRACK		1.00	279 A
AMPS	276							

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PANELBOARD: RPC (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUSBAR: 1

FED FROM: PROTOCOL C
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: PROTOCOL C DEFROST
MOUNTING: SURFACE
LOCATION: REF. MEZZANINE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,440			12	20	1	2	30	10	2,820			(C3) 2+5 DR RLN	2	LCK
LCK	3	(C1) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	4	
	5				2,016				2	30	10			2,016	(C4) 5 DR RLN DEF HTR	6	LCK
LCK	7	(C1) 5 DR RLNI DEF HTR	2,016			10	30	2				2,016				8	
	9			2,016					2	30	10		2,016		(C4) 5 DR RLN DEF HTR	10	LCK
LCK	11	(C1) 2+5 DR RLN			2,820	10	30	2						2,016		12	
	13	+ RLNI DEF HTR	2,820						2	30	10	2,820			(C4) 2+5 RLN	14	LCK
LCK	15	(C2) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	16	
	17				2,016				2	30	10			2,016	(C5) 5 DR RLNI DEF HTR	18	LCK
LCK	19	(C2) 2+5 DR RLN	2,820			10	30	2				2,016				20	
	21	+ RLNI DEF HTR		2,820					2	30	10		2,016		(C5) 5 DR RLNI DEF HTR	22	LCK
LCK	23	(C3) 5 DR RLNI DEF HTR			2,016	10	30	2						2,016		24	
	25		2,016						2	30	10	2,820			(C5) 2+5 DR RLN	26	LCK
LCK	27	(C3) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	28	
	29				2,016				1						EQUIPPED SPACE	30	
	BUSBAR: 2																
LCK	31	(C6) 5 R RLNI DEF HTR	2,016			10	30	2	2	30	10	2,016			(C8) 5 DR RLN DEF HTR	32	LCK
	33			2,016									2,016			34	
LCK	35	(C6) 5 R RLNI DEF HTR			2,016	10	30	2	2	30	10			2,016	(C8) 5 DR RLN DEF HTR	36	LCK
	37		2,016									2,016				38	
LCK	39	(C6) 2+5 DR RLN		2,820		10	30	2	2	30	10		3,228		(C8) 8 DR RLN DEF HTR	40	LCK
	41	+RLNI DEF HTR			2,820									3,228		42	
LCK	43	(C7) 5 DR DEF HTR	2,016			10	30	2	2	30	10	2,016			(C9) 5 DR RLN DEF HTR	44	LCK
	45			2,016									2,016			46	
LCK	47	(C7) 5 DR DEF HTR			2,016	10	30	2	2	30	10			2,016	(C9) 5 DR RLN DEF HTR	48	LCK
	49		2,016									2,016				50	
LCK	51	(C7) 8 DR RLN DEF HTR		3,228		10	30	2	2	30	10		2,016		(C10) 5 DR RLN DEF HTR	52	LCK
	53				3,228									2,016		54	
	55	PS						2	2						PS	56	
	57															58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
	BUSBAR: 3																
LCK	61	(C2) 5 DR RLNI DEF HTR	2,016			10	30	2	2	30	10	2,628			(C12) 8+E FW DEF HTR	62	LCK
	63			2,016									2,628			64	
LCK	65	(C10) 5 DR RLN DEF HTR			2,016	10	30	2	2	30	10			2,628	(C13) 8+E FW DEF HTR	66	LCK
	67		2,016									2,628				68	
	69	PS						2	2	30	10		780		(C14) FWE DEF HTR	70	LCK
	71													780		72	
LCK	73	**(C11) 5 DR RLN DEF HTR**	1,747			10	30	2	2	30	10	780			(C15) FWE DEF HTR	74	LCK
	75			1,747									780			76	
	77	EQUIPPED SPACE						1	2						PS	78	
	79	EQUIPPED SPACE						1								80	
	81	EQUIPPED SPACE						1	2						PS	82	
	83	EQUIPPED SPACE						1								84	
	85	PS						2	2						PS	86	
	87															88	
	89	EQUIPPED SPACE						1	1						EQUIPPED SPACE	90	
		SUBTOTAL	24,955	24,727	22,980							26,592	25,956	20,748	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	51,547	COOLING		1.00	REFRIG		1.00	
AMPS	430	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	50,683	LIGHTING		1.25	KITCHEN		1.00	
AMPS	422	RECEPTACLES	1,440	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	43,728	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	364	SUPP HEAT	144,518	0.30	SHOW WNDW		1.25	44,795 VA
TOTAL PNLBD - VA	145,958	MISC EQUIP		1.00	LTG TRACK		1.00	124 A
AMPS	405							

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL E (PCE) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 200A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUSBAR: 1

PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL E

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,424			ZBD45KCE	2	
LCK	3	(E1) 30 IM05R FANS		360		12	20	1	3	30	10		2,424		COMP #1	4	LCK
LCK	5	(E1) 30 IM05R LTS			708	12	20	1						2,424		6	
LCK	7	(E2) 26 TY36XR FANS	648			12	20	1				1,692			ZB30KCE	8	
LCK	9	(E2) 26 TY36XR LTS		216		12	20	1	3	30	10		1,692		COMP #2	10	LCK
LCK	11	(E3) 24 ID5SU FANS			228	12	20	1						1,692		12	
LCK	13	(E3) 24 ID5SU LTS	336			12	20	1				2,424			ZB45KCE	14	
LCK	15	**(E6) GMDSVR FANS/LTS**		1,584		12	20	1	3	30	10		2,424		COMP #3	16	LCK
LCK	17	(E5) 2 GHSS636R FANS			492	12	20	1						2,424		18	
LCK	19	**(E4) KR26A125 FANS**	624			12	20	1	1						EQUIPPED SPACE	20	
LCK	21	(E10) LH26A94 FANS		216		12	20	1	1						EQUIPPED SPACE	22	
	23	EQUIPPED SPACE						1	1						EQUIPPED SPACE	24	
	25	EQUIPPED SPACE						1	1						EQUIPPED SPACE	26	
	27	EQUIPPED SPACE						1	1						EQUIPPED SPACE	28	
	29	EQUIPPED SPACE						1	1							30	
	BUSBAR: 2																
	31	ZB45KCE	2,424						2	20	12	120			**(E9) GLD56D225 FANS**	32	LCK
LCK	33	COMP #4		2,424		10	30	3					120		**FAN KILL RELAY**	34	
	35				2,424				1						EQUIPPED SPACE	36	
	37	ZB57KCE	3,828						1						EQUIPPED SPACE	38	
LCK	39	COMP #5		3,828		8	40	3	2	30	10		2,088		**(E9) GL56D225 DEF HTR**	40	LCK
	41				3,828									2,088		42	
	43	EQUIPPED SPACE							1						EQUIPPED SPACE	44	
LCK	45	COMP #6 (FUTURE)						3	1						EQUIPPED SPACE	46	
	47								1						EQUIPPED SPACE	48	
	49		2,592						1						EQUIPPED SPACE	50	
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1						EQUIPPED SPACE	52	
	53				2,592				1						EQUIPPED SPACE	54	
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	11,532	11,220	10,272							6,660	8,748	8,628	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	18,192	COOLING		1.00	REFRIG	50,328	1.00	
AMPS	152	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	19,968	LIGHTING	1,844	1.25	KITCHEN		1.00	
AMPS	166	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	18,900	MOTORS	3,808	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	158	SUPP HEAT		1.00	SHOW WNDW		1.25	57,521 VA
TOTAL PNLBD - VA	57,060	MISC EQUIP		1.00	LTG TRACK		1.00	160 A
AMPS	158							

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PANELBOARD LEGEND

ABBREVIATIONS — V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.	LCK	HANDLE PADLOCKABLE-OFF DEVICE.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.	LO	HANDLE-ON CLAMP.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.	N	PROVIDE NEW CIRCUIT BREAKER.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.	OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.	PS	POWER-SWITCHING CIRCUIT BREAKER.
EX	EXISTING.	PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.	R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
FA	RED/HANDLE-ON CLAMP.	RP	CIRCUIT VIA RELAY PANEL.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).	ST	SHUNT TRIP CIRCUIT BREAKER.
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).	V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.	VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
IG	ISOLATED GROUND CIRCUIT.	Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.
L#	LIGHTING CONTROL SCHEME NUMBER.		

NOT ALL ABBREVIATIONS ARE USED.

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL
STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER
04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
HyVee® EMPLOYEE OWNED

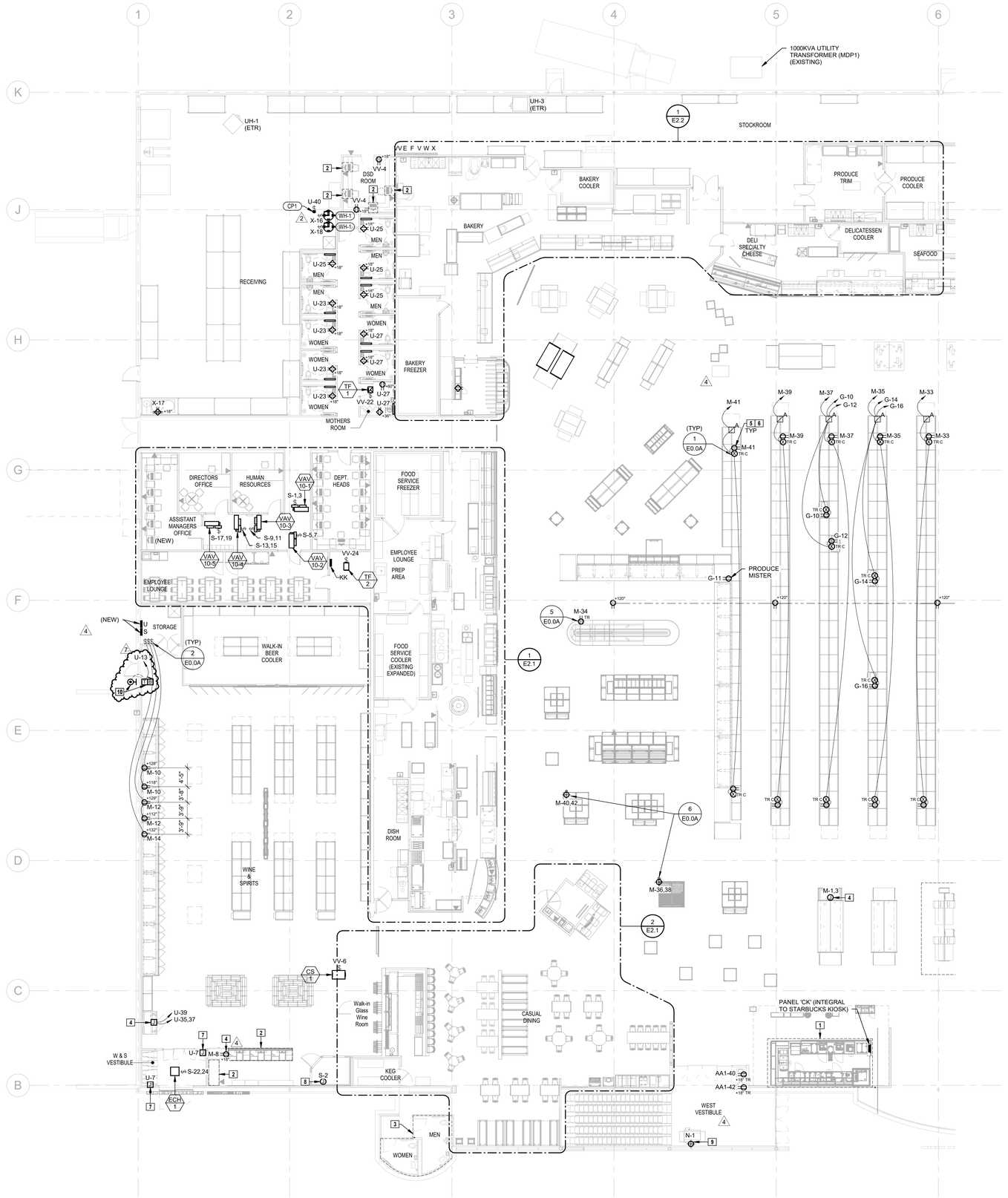
NORTH   PLAN NORTH

REFRIGERATION ELECTRICAL SCHEDULES

PROJECT MANAGER: SL	CHECKED BY: HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E1.4

VINCENT G. MASILIONIS
4/20/2021 3:20:34 PM



1 ELECTRICAL PLAN - PART A
3/32" = 1'-0"

ELECTRICAL PLAN NOTES

1. REFER TO STARBUCKS DRAWINGS (BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
2. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
3. EXISTING ROOM/SPACE TO REMAIN . COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.
4. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
5. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
6. PROVIDE RECEPTACLE AND JUNCTION BOX MOUNTED BELOW SHELVING AND CONNECT TO POWER POLE VIA CONCEALED FLEXIBLE METAL CONDUIT. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
7. IF SWITCH IS NOT FURNISHED WITH AUTO DOOR THEN PROVIDE ON/OFF SERVICE SWITCH AND RELATED CIRCUITRY WITHIN SIGHT OF MOTOR PER CODE. COORDINATE REQUIREMENTS WITH DOOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.
8. PROVIDE JUNCTION BOX FOR CONNECTION TO HUMIDOR SHELVING LED LIGHTING. COORDINATE REQUIREMENTS WITH HUMIDOR INSTALLER AND OWNER PRIOR TO ROUGH-IN
9. PROVIDE TWIST-LOCK RECEPTACLE IN VESTIBULE CEILING AND EXTEND A FLEXIBLE CORD WITH CORD STRAIN RELIEF ON EACH END DOWN TO 7'-0" AFF. CART STERILIZER SHALL PLUG INTO END OF FLEXIBLE CORD.
10. PROVIDE EDWARDS 55 SERIES DOOR BELL, TRANSFORMER, AND EDWARDS 1786-8 WEATHERPROOF PUSH BUTTON, OR APPROVED ALTERNATE.

REFER TO 'EQUIPMENT INSTALLATION AND SERVICE CONNECTIONS' SCHEDULE ON DRAWING E0.1 FOR EQUIPMENT TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR. (EC)

REVISION		DATE BY
2	ASI #2	01/07/21
4	ASI #4	02/05/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 **FAX** 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO. E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI · VINCENT G. MASILIONIS · NUMBER PE-2008008670 · PROFESSIONAL ENGINEER

04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
EMPLOYEE OWNED

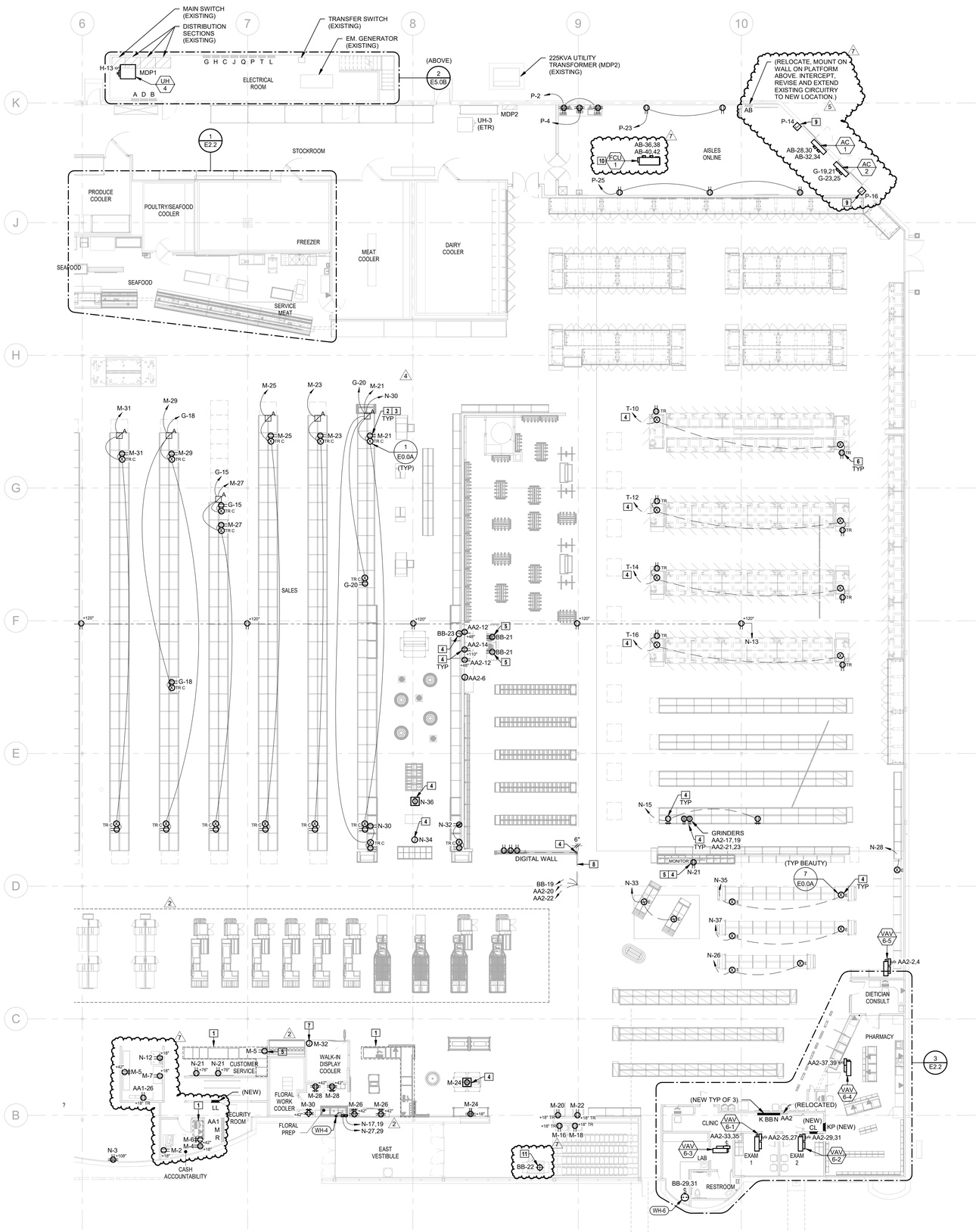
NORTH PLAN NORTH

ELECTRICAL PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.0A

VINCENT G. MASILIONIS
4/20/2021 3:20:47 PM



1 ELECTRICAL PLAN - PART B
3/32" = 1'-0"

ELECTRICAL PLAN NOTES

1. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
2. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION. OTHERWISE REPLACE.
3. PROVIDE RECEPTACLE AND JUNCTION BOX MOUNTED BELOW SHELVING AND CONNECT TO POWER POLE VIA CONCEALED FLEXIBLE METAL CONDUIT. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
4. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
5. INSTALL RECEPTACLE(S) AND DATA BOX(ES) IN AN ACCESSIBLE LOCATION UNDER COUNTER IN MILLWORK; LOCATE SUCH THAT DRAWERS AND DIVIDERS DO NOT BLOCK ACCESS TO DEVICE. COORDINATE LOCATION WITH OWNER AN OTHER TRADES PRIOR TO ROUGH-IN.
6. RECEPTACLES MOUNTED IN THE BASEPLATE OF THE CASE. ROUTE ELECTRICAL FROM CASE ROUGH-IN LOCATION. COORDINATE MOUNTING OF RECEPTACLE WITH CASE SUPPLIER AND REFRIGERATION CONTRACTOR.
7. IF SWITCH IS NOT FURNISHED WITH AUTO DOOR THEN PROVIDE ON/OFF SERVICE SWITCH AND RELATED CIRCUITRY WITHIN SIGHT OF MOTOR PER CODE. COORDINATE REQUIREMENTS WITH DOOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.
8. EXTEND 1" CONDUIT UNDERFLOOR FROM WALL TO DIGITAL SHOE WALL WITH THREE 120V CIRCUITS FOR MONITORS.
9. IF SWITCH IS NOT FURNISHED WITH AUTO DOOR THEN PROVIDE ON/OFF SERVICE SWITCH AND RELATED CIRCUITRY WITHIN SIGHT OF MOTOR PER CODE. COORDINATE REQUIREMENTS WITH DOOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.
10. PROVIDE INTERLOCK OF INDOOR UNIT WITH OUTDOOR UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
11. PROVIDE TWIST-LOCK RECEPTACLE IN VESTIBULE CEILING AND EXTEND A FLEXIBLE CORD WITH CORD STRAIN RELIEF ON EACH END DOWN TO 7'-0" AFF. CART STERILIZER SHALL PLUG INTO END OF FLEXIBLE CORD.

REVISION		DATE BY
2	ASI #2	01/07/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 **FAX** 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

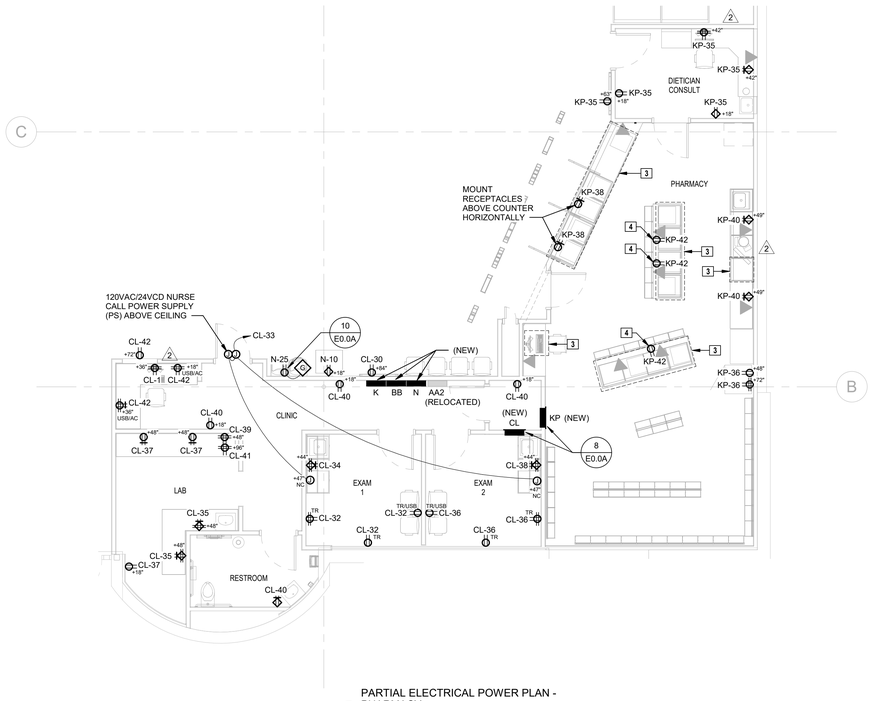
ELECTRICAL PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

E2.0B

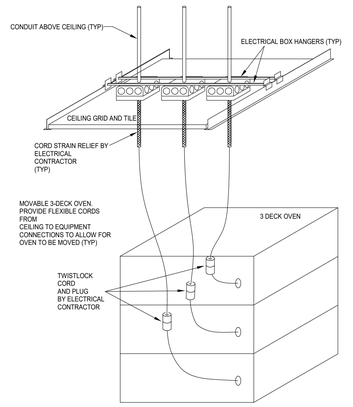
VINCENT G. MASILIONIS
4/20/2021 3:21:21 PM



PARTIAL ELECTRICAL POWER PLAN - PHARMACY
3 3/16" = 1'-0"

ELECTRONIC MENU MONITOR BOARD SCHEDULE

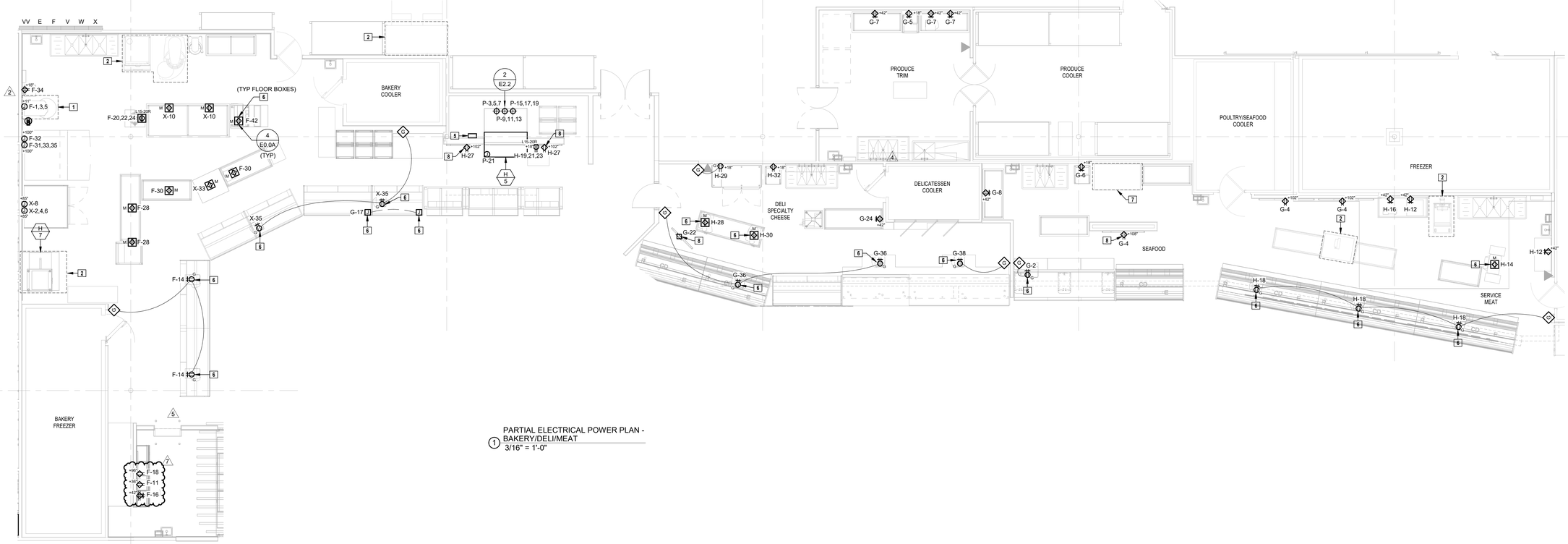
LOCATION	AMOUNT AND SIZE	HEIGHT	MOUTNING
SUSHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MARKET GRILLE EXPRESS	(3) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HICKORY HOUSE	(4) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HIBACHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
ASIAN	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MIA PIZZA	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
BAKERY CAKE	(1) 65" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +8'-0"
BAKERY BREAD	(2) 55" MONITORS	B/O MONITOR +6'-8"	WALL - BOX +8'-8"
MEAT	(1) 82" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +6'-8"
SEAFOOD	(1) 65" MONITOR	B/O MONITOR +6'-8"	WALL - BOX +9'-0"
SEASONS	(1) 55" MONITOR	MONITOR ON KIOSK	WALL - BOX +18"
DIETITIAN	(1) 49" MONITOR	B/O MONITOR +4'-3"	WALL - BOX +5'-3"
GREETING CARDS	(1) 49" MONITOR	VARIES	WALL
BASIN	(1) 65" MONITOR	B/O MONITOR +5'-2"	WALL - BOX +7'-6"
CUSTOMER SERVICE	(2) 65" MONITORS	B/O MONITOR +4'-7"	WALL - BOX +6'-4"
APPAREL	(1) 82" MONITOR	B/O MONITOR +6'-2"	WALL - BOX +9'-2"



2 3 DECK OVEN ELECTRICAL DETAIL
NTS

ELECTRICAL PLAN NOTES

1. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
2. EXISTING KITCHEN EQUIPMENT TO REMAIN.
3. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
4. INSTALL RECEPTACLE(S) AND DATA BOX(ES) IN AN ACCESSIBLE LOCATION UNDER COUNTER IN MILLWORK; LOCATE SUCH THAT DRAWERS AND DIVIDERS DO NOT BLOCK ACCESS TO DEVICE. COORDINATE LOCATION WITH OWNER AN OTHER TRADES PRIOR TO ROUGH-IN.
5. KITCHEN EXHAUST HOOD CONTROL PANEL. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR MORE INFORMATION.
6. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
7. RELOCATED KITCHEN EQUIPMENT. CONTRACTOR TO RELOCATE EQUIPMENT POWER DEVICES.
8. REFER TO ELECTRONIC MENU MONITOR BOARD SCHEDULE ON THIS SHEET FOR MORE INFORMATION.



PARTIAL ELECTRICAL POWER PLAN - BAKERY/DELI/MEAT
1 3/16" = 1'-0"

REVISION		DATE BY
2	ASI #2	01/07/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI · VINCENT G. MASILIONIS · NUMBER PE-2008008670 · PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PART PLANS

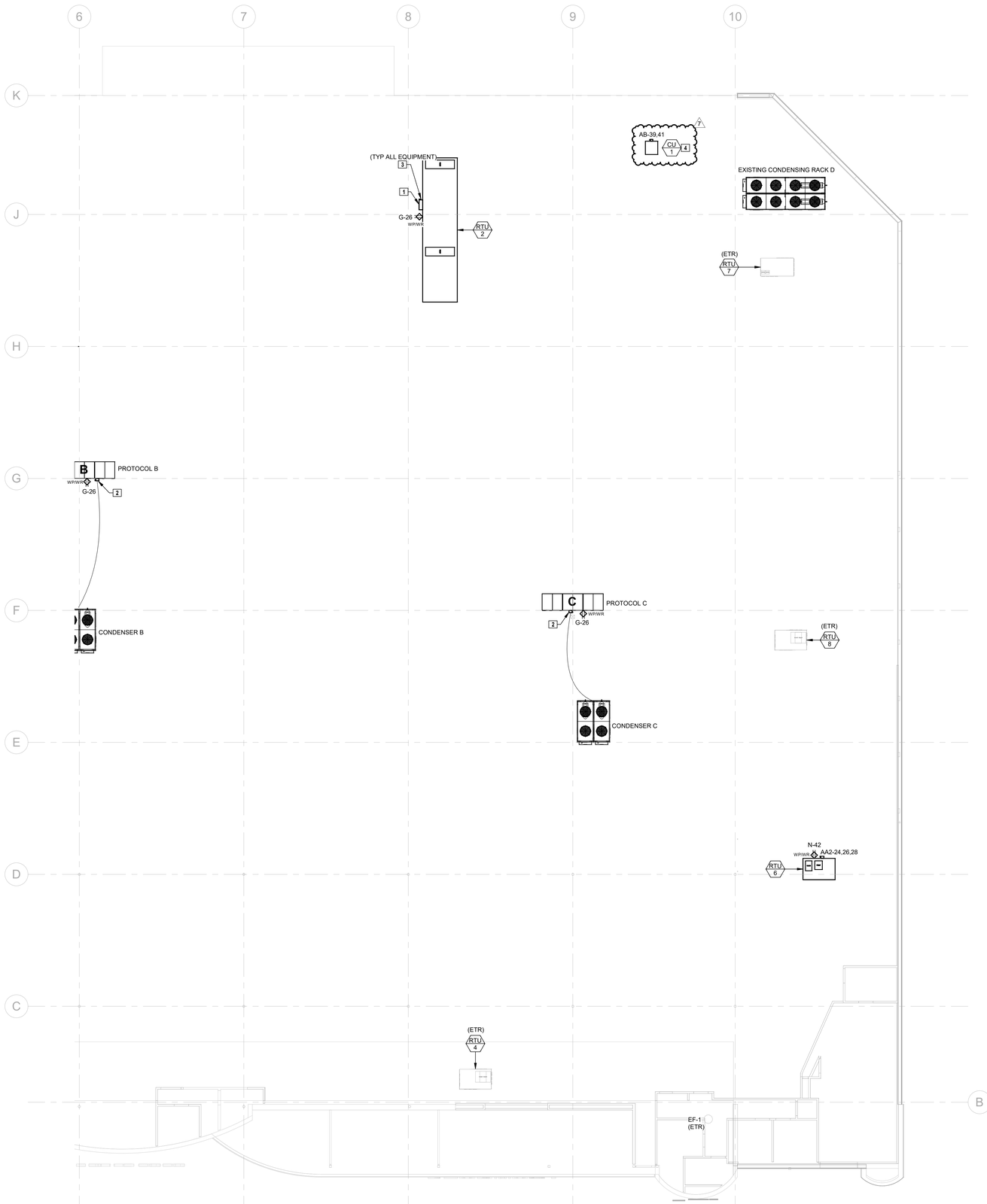
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.2

4/20/2021 3:21:52 PM
VINCENT G. MASILIONIS

ELECTRICAL PLAN NOTES

1. ROUTE POWER TO MDP1 LOCATED IN THE ELECTRICAL ROOM. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.
2. ROUTE POWER TO MRP LOCATED ON THE REFRIGERATION MEZZANINE. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.
3. PROVIDE CIRCUITRY TO DISCONNECT FURNISHED WITH MECHANICAL EQUIPMENT.
4. PROVIDE INTERLOCK WITH FAN COIL UNIT BELOW. REFER TO POWER PLAN AND MECHANICAL PLANS FOR MORE INFORMATION. (7)



1 ROOF ELECTRICAL PLAN - PART B
3/32" = 1'-0"

REVISION	DATE BY
7 ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ROOF ELECTRICAL PLAN - PART B

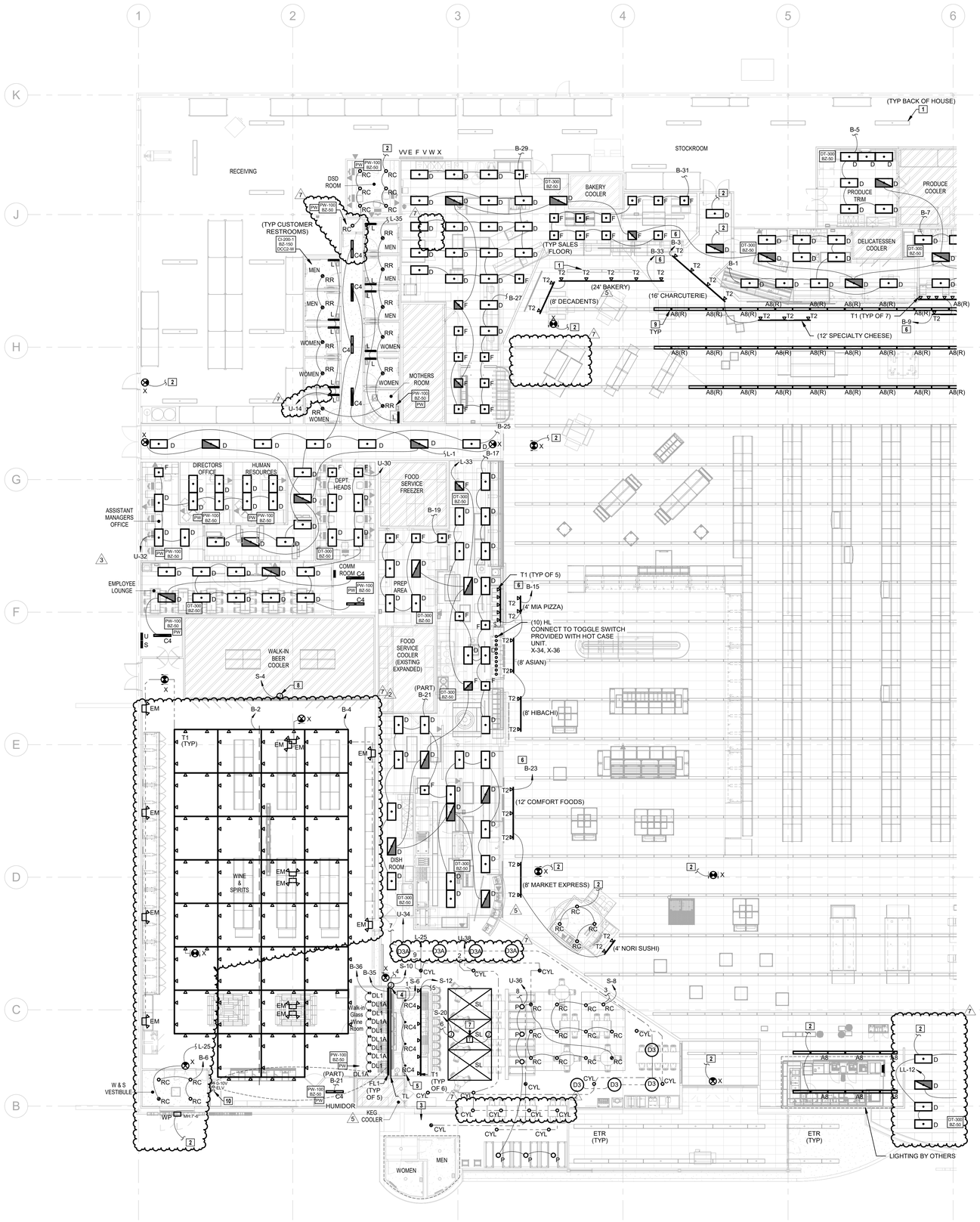
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

E2.9B

VINCENT G. MASILIONIS

4/20/2021 3:22:20 PM



1 LIGHTING FLOOR PLAN - PART A
3/32" = 1'-0"

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
4. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSBURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.

LIGHTING GENERAL NOTES (GROCERY):

1. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
4. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING DESIGN RESPONSIBILITY GENERAL NOTES:

1. THE LOCATION AND SELECTION OF THE LIGHT FIXTURES WERE MADE BY OTHERS AND ARE OUTSIDE OF THE SCOPE OF WORK OF HENDERSON ENGINEERS, UNLESS NOTED OTHERWISE. HENDERSON ENGINEER'S SCOPE OF SERVICES IS LIMITED TO PROVIDING LIGHTING POWER CIRCUIT AND CONTROL DESIGN AND CODE COMPLIANCE CALCULATIONS. THE USE OF THE SEAL AND SIGNATURE ON THIS SHEET APPLIES TO HENDERSON ENGINEER'S SCOPE OF SERVICES ONLY.

LIGHTING FLOOR PLAN NOTES

1 REPLACE EXISTING LAMP(S) IN THIS AREA WITH LED REPLACEMENT WITH INTEGRATED DRIVER OF SIMILAR LUMEN OUTPUT. LED REPLACEMENT SHALL BE COMPATIBLE WITH EXISTING BALLAST(S), SOCKETS AND CONTROLS. PROVIDE LED REPLACEMENT BY GE, PHILLIPS, OR OTHER APPROVED NRTL LISTED PRODUCT. PROVIDE SUBMITTAL OF PROPOSED LED REPLACEMENT TO ENGINEER AND OWNER FOR REVIEW PRIOR TO ORDER. REPAIR OR REPLACE ANY DAMAGED SOCKETS OR BALLASTS TO ENSURE PROPER OPERATION. FINAL INSTALLATION SHALL MEET ALL CODE REQUIRED LIGHT LEVEL REQUIREMENTS AND SHALL FUNCTION PROPERLY WITH EXISTING CONTROLS.

2 CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.

3 EXISTING ROOM/SPACE TO REMAIN. COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.

4 VERIFY LOCATION OF LED LIGHTING CONTROLLER (MAGNETIC DIMMABLE DRIVER). LOCATE CONTROLLED IN ACCESSIBLE LOCATION. ROUTE LOW VOLTAGE CABLE IN WALL SPACE TO LED LIGHTING BEHIND ACRYLIC DISPLAY.

5 MARKET GRILLE SWITCHBANK. COORDINATE FINAL LOCATION WITH HY-VEE PRIOR TO ROUGH-IN. REFER TO 2/E3.1.

6 TRACK LIGHTING TO BE CONTROLLED VIA EXISTING LIGHTING CONTROL PANEL.

7 LOCATE TRANSFORMER IN ACCESSIBLE LOCATION ABOVE CEILING ELEMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HY-VEE PRIOR TO ROUGH-IN.

8 PROVIDE JUNCTION BOX FOR BEER COOLER SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HY-VEE PRIOR TO ROUGH-IN.

9 RELOCATE LIGHT FIXTURE(S) AS SHOWN AND REVISE AND EXTEND RELATED CIRCUITRY.

10 WINE AND SPIRITS SWITCHBANK. COORDINATE FINAL LOCATION WITH HY-VEE PRIOR TO ROUGH-IN. REFER TO 3/E3.1.

REVISION		DATE BY
2	ASI #2	01/07/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-5556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2855

hyvee® EMPLOYEE OWNED

NORTH PLAN NORTH

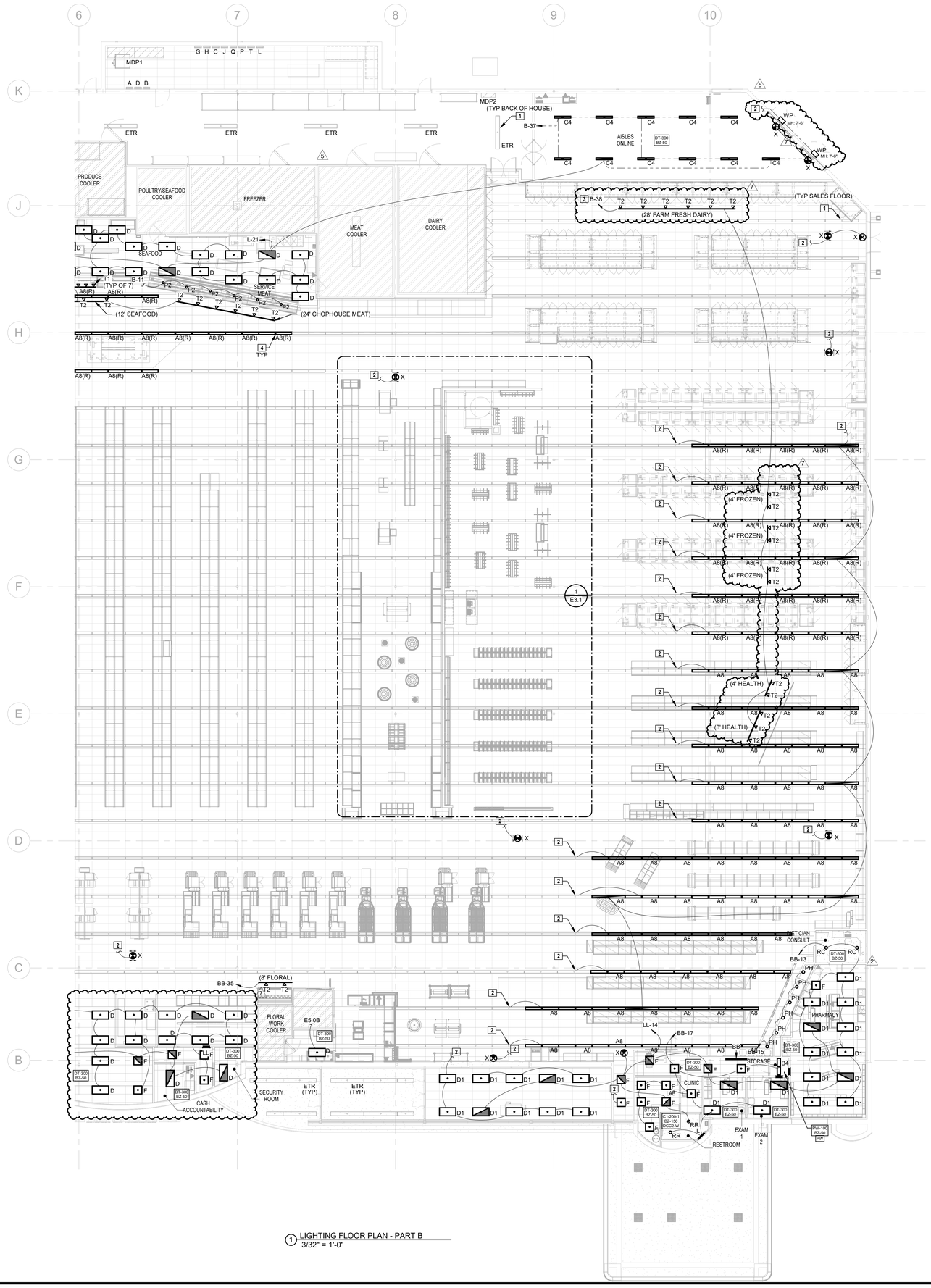
LIGHTING FLOOR PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

E3.0A

VINCENT G. MASILIONIS
4/21/2021 8:59:52 AM



1 LIGHTING FLOOR PLAN - PART B
3/32" = 1'-0"

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE. AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
4. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.

LIGHTING GENERAL NOTES (GROCERY):

1. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
4. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING DESIGN RESPONSIBILITY GENERAL NOTES:

1. THE LOCATION AND SELECTION OF THE LIGHT FIXTURES WERE MADE BY OTHERS AND ARE OUTSIDE OF THE SCOPE OF WORK OF HENDERSON ENGINEERS, UNLESS NOTED OTHERWISE. HENDERSON ENGINEER'S SCOPE OF SERVICES IS LIMITED TO PROVIDING LIGHTING POWER CIRCUIT AND CONTROL DESIGN AND CODE COMPLIANCE CALCULATIONS. THE USE OF THE SEAL AND SIGNATURE ON THIS SHEET APPLIES TO HENDERSON ENGINEER'S SCOPE OF SERVICES ONLY.

☐ LIGHTING FLOOR PLAN NOTES

1 REPLACE EXISTING LAMP(S) IN THIS AREA WITH LED REPLACEMENT WITH INTEGRATED DRIVER OF SIMILAR LUMEN OUTPUT. LED REPLACEMENT SHALL BE COMPATIBLE WITH EXISTING BALLAST(S), SOCKETS AND CONTROLS. PROVIDE LED REPLACEMENT BY GE, PHILLIPS, OR OTHER APPROVED NRTL LISTED PRODUCT. PROVIDE SUBMITTAL OF PROPOSED LED REPLACEMENT TO ENGINEER AND OWNER FOR REVIEW PRIOR TO ORDER. REPAIR OR REPLACE ANY DAMAGED SOCKETS OR BALLASTS TO ENSURE PROPER OPERATION. FINAL INSTALLATION SHALL MEET ALL CODE REQUIRED LIGHT LEVEL REQUIREMENTS AND SHALL FUNCTION PROPERLY WITH EXISTING CONTROLS.

2 CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.

3 TRACK LIGHTING TO BE CONTROLLED VIA EXISTING LIGHTING CONTROL PANEL.

4 RELOCATE LIGHT FIXTURE(S) AS SHOWN AND REVISE AND EXTEND RELATED CIRCUITRY.

REVISION		DATE BY
2	ASI #2	01/07/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G. MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

hyvee® EMPLOYEE OWNED

NORTH PLAN NORTH

LIGHTING FLOOR PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E3.0B

VINCENT G. MASILIONIS
4/21/2021 11:39:08 AM

MARKET GRILLE and CASUAL DINING LIGHTING FIXTURE SCHEDULE

UPDATED 12-13-19

(NOT ALL FIXTURES LISTED MAY APPLY TO THIS PROJECT)

SYMBOL	MARK	TYPE	MANUFACTURER/MODEL #	LOCATION	VOLTAGE	DIMMER	MFR	NOTES
TL TAPELIGHT	TAPELIGHT	FLEXIBLE STRIP	TUBE LIGHTING DSH-HO24V-XX-4'/DSH-DR60-24V	BAR	120v	STYLE-LINE SWITCH		SEE INTERIOR ELEVATION OF BAR FOR TAPELIGHT LOCATIONS
RC	RC	RECESSED CAN	L6R20ANZ10UVAL6R20840VAL4RDD	OVERHEAD	120v	SR1200ZTUNV	PHILIPS	
D1/D2/D2A/D3/D3A/D4	D1	DRUM 15"x19	CONTECH RLM592DRA1	OVERHEAD	120v	SR1000VA-WHITE	(2) 15 WATT LAMPS, MAX.	
	D2	DRUM 24"x12"	CONTECH RLM592DRB1	OVERHEAD	120v	SR1000VA-WHITE	(2) 15 WATT LAMPS, MAX.	
	D2A	DRUM 24"x21"	CONTECH RLM592DRC1	OVERHEAD	120v	SR1000VA-WHITE	(2) 15 WATT LAMPS, MAX.	
	D3	DRUM 36"x12"	CONTECH RLM594DRD1	OVERHEAD	120v	SR1000VA-WHITE	(4) 15 WATT LAMPS, MAX.	
	D3A	DRUM 36"x30"	CONTECH RLM594DRE1	OVERHEAD	120v	SR1000VA-WHITE	(4) 15 WATT LAMPS, MAX.	
	D4	DRUM 48"x18"	CONTECH RLM594DRF1	OVERHEAD	120v	SR1000VA-WHITE	(4) 15 WATT LAMPS, MAX.	
S1	S1	SPOT LIGHT	CONTECH LIGHTING CTL 806V	OVERHEAD TRACK	120v	SR1000VA-WHITE	VERIFY MOUNTING HEIGHTS	
F1 F1 F1	F1	FLOOD LIGHT	CONTECH LIGHTING CTL 806V	OVERHEAD TRACK	120v	SR1000VA-WHITE	VERIFY MOUNTING HEIGHTS AND METHODS	
P	P	PENDANT	TECH LIGHTING 700MOYLS MINI SIGNAL PENDANT	TABLE LIGHTS	120v	SR1000VA-WHITE	TECH LIGHTING	
CYL		CYLINDER	CONTECH CL6130MVDQ-P-M-CLR-S-CSK18-S	CYLINDER - PATH AND EMERGENCY LIGHTING	120v	SR1000VA-WHITE	VERIFY MOUNTING HEIGHT	
SL		SUSPENDED LIGHTING (2 INDIVIDUAL RUNS)	TUBE LIGHTING, INC. BPS-3075M-12-WWLED-FRSM-GD-BK-B/S-*	OVERHEAD AT BAR	120v			SUSPEND LIGHTING STRINGS BETWEEN CORNERS OF FRAME/WORK WITH 3/16" DIAMETER STAINLESS STEEL SUSPENSION CABLE. INSTALL MODEL T-1023-24-1 150W TRANSFORMER IN ACCESSIBLE LOCATION
RC4		RECESSED CAN	PHILIPS/LIGHTOLIER L4R10ANZ10UVAL4R10840VAL4RDD	OVERHEAD	120V	SR1200ZTUNV 0-10 VOLT		1500 LUMEN FIXTURE. PROVIDE DIMMER SWITCH.

REFER TO ENERGY MANAGEMENT CONSULTANTS (EMC) DRAWINGS AND SCHEDULES FOR COMPLETE LIST OF LIGHTING REQUIREMENTS INCLUDING LAMP SPECIFICATIONS, BALLASTS, AND MISCELLANEOUS COMPONENTS.

FOR THE RECESSED LIGHTING FIXTURES AND CYLINDER FIXTURES CONNECTED TO THE EMERGENCY LIGHTING PANEL, FURNISH AND INSTALL A PHILLIPS BODINE GENERATOR TRANSFER DEVICE (GTD) TO POWER THE FIXTURE WHEN ENERGIZED FROM THE GENERATOR.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	EMC LABEL	MANUFACTURER/MODEL #	WATTS	VA	VOLTAGE	LOCATION	NOTES
A8	8' SALES LIGHTING FIXTURE - LED	GSDBLED	GE L-IS-18-B-0-A2-D9-P-40-V-Q-CS-WHITE	101		120	SALES LIGHTING	LED FIXTURE
B8	8' SALES LIGHTING FIXTURE	GSD8	PHILIPS TKA232-UNV-120-2/2-EBO(B232PUNVDFHAODC)-P218-WH-FA	146-27		120	SALES LIGHTING	OPEN CEILING E4HKK HANGERS, 789276001 TIKA END CAPS
B4	4' SALES LIGHTING FIXTURE	GSD4	PHILIPS IKA232-UNV-120-1/2-EBO(B232PUNVDFHAODC)-P214-WH-FA	70-14		120	SALES LIGHTING	OPEN CEILING E4HKK HANGERS, 789276001 TIKA END CAPS
C4	1X4 BACKROOM UTILITY FIXTURE	PG4	PHILIPS IS232-120-1/2-EB-B232IUNVHP-N	58	64	120	BACKROOMS	
D1	2X4 LED FIXTURE	LED	PHILIPS 2FGG42B-840-4-D-UNV-DIM	44	48	120	SEE PLAN	LED FIXTURE
		LED ENT	PHILIPS 2FGG42B-840-4-D-UNV-DIMFMA24	44	48	120	SEE PLAN	LED FIXTURE (entry cart storage)
EM	WALL MOUNTED EMERGENCY LIGHT	EMH	SIGNIFY VLLU2	4	4	120	WINE AND SPIRITS	EMERGENCY BUGEYE
F	2X2 LED FIXTURE	LED22 UP62	PHILIPS 2FGG38B-840-2-D-UNV-DIM	54	60	120	SEE PLAN	LED FIXTURE
D	2X4 LED FIXTURE - FLAT PANEL	.	PHILIPS 2 FPZ 42B 840 4 DS UNV DIM	38	42	120	SEE PLAN	LED FIXTURE - BACK OF HOUSE, AREAS NOT VISIBLE TO CUSTOMER
DL1	3" SQUARE RECESSED ADJUSTABLE DOWNLIGHT		TECH E3S-FF-LH-930-2-A-N-010/E3S-F15-B-0-W	18	20	120	WINE ROOM	25 DEGREE BEAM SPREAD AIMED AT 4' AFF
DL1A	3" SQUARE RECESSED ADJUSTABLE DOWNLIGHT		TECH E3S-FF-LH-930-4-A-N-010/E3S-F15-B-0-W	18	20	120	WINE ROOM	40 DEGREE BEAM SPREAD AIMED AT 7' AFF
FC	LOW TEMP FREEZER/COOLER FIXTURE	HO	KINGSPAN LDX-VT-O-A-24	47	52	120	COOLERS FREEZERS	LED FIXTURE SEE DRAWING ES.0
FL1	FLOOR MOUNT LINEAR GRAZING FIXTURE		COLORKINETICS 523-000065-41/108-000047-00/120-000124-00	32	35	120	WINE ROOM	FLOOR MOUNT, COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS
L	MIRROR LIGHT	RW	WAC LIGHTING WS-6724F-30-AL	22	24	120	RESTROOMS	ABOVE MIRROR
X	EXIT LIGHT	E	MCPHILBEN D8BJ VERWEM	3.4	3.4	120	ALL AREAS	
RC	RECESSED CAN LIGHTING FIXTURE	LEDC	PHILIPS L6R20ANZ10UVAL6R20840VAL6RDD	22	24	120	DEPARTMENTS	LED FIXTURE
RR	RESTROOM RECESSED CAN FIXTURE	RR	PHILIPS L6R20ANZ10UVAL6R20840VAL6RDD	22	24	120	MOTHER'S ROOM/ RESTROOMS	LED FIXTURE
PH	PHARMACY RECESSED CAN FIXTURE	LEDC	PHILIPS L4R10ANZ10UVAL4R10840VAL4RDD	22	24	120	PHARMACY	LED FIXTURE
P2	PENDANT LIGHT FIXTURE AT MEAT CASES	P	DAYBRITE VP110C; RAB C100 J-BOX COVER LG7/30SD/2D-32S-220OK-120V	9.5	10	120	MEAT DEPT	INSTALLED OVER CASES; E.C. TO PAINT COVER WITH GALVANIZED PAINT TO MATCH FIXTURE
PT	PENDANT LIGHT FIXTURE - DSW & JOE FRESH		TECH LIGHTING POWELL STREET PENDANT 700TDPSP24WWW-LED830 LA17 TRACK CONNECTOR	150	160	120	DSW & JOE FRESH CHECKOUT	
HL RED HEAT LAMPS	HEAT LAMPS (ABOVE ASIAN CASE)		HATCO DL-700 (RADIANT RED)	250	275	120	ASIAN CASE	120 VOLT. MOUNT OVER SEE PLAN FOR TRACK LENGTHS
T1	BAKERY CAKE WALL / SEAFOOD TRACK LIGHTING LED	THLW	CONTECH CTL8063VM30-S LT-4-S LT-8-S LA-10-S LA-2-S	21	23	120	SEAFOOD	LED
T2	DEPARTMENT HEADER TRACK LIGHTING LED	THWHT	CONTECH CTL193 H 4 S (SILVER)	35	38	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T3B	CANDY/CARDS TRACK LIGHTING LED		CONTECH CTL8063VF30-B LT-6-P (BLACK TRACK) LA-10-BK (STARTER)	21	23	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T3W	CANDY/CARDS TRACK LIGHTING LED		CONTECH CTL8063VM30-W LT-6-P (WHITE TRACK) LA-10-WH (STARTER)	21	23	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T4	CANDY/CARDS LED		SPUTNICK CUSTOM STEM FIXTURE CONTACT LA17 CONNECTOR	60	60	120	DEPARTMENT	LED
WP	EXTERIOR WALL PAK FIXTURE LED	W	SIGNIFY LPW32-78WZ	71	74	120	EXTERIOR	LED

REFER TO ENERGY MANAGEMENT CONSULTANTS (EMC) DRAWINGS AND SCHEDULES FOR COMPLETE LIST OF LIGHTING REQUIREMENTS INCLUDING LAMP SPECIFICATIONS, BALLASTS, AND MISCELLANEOUS COMPONENTS.

LIGHTING CONTROLS

(NOT ALL DEPARTMENTS LISTED MAY APPLY TO THIS PROJECT)

AREA	CONTROLS
MAIN SALES FLOOR	LIGHTING DIMMING PANEL
WINE AND SPIRITS	LIGHTING DIMMING PANEL
DINING AREAS and BAR	DIMMER SWITCHES (SEE SPECIFIC SCHEDULE AND DIAGRAMS FOR DIMMING CONTROLS)
KITCHEN	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PW-300 BZ-50
ASIAN KITCHEN	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PW-300 BZ-50
BAKERY	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S). PROVIDE STYLE-LINE WALL SWITCH FOR CAKE DECORATING TRACK LIGHTS — PW-300 BZ-50
MEAT DEPT	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S). PROVIDE STYLE-LINE WALL SWITCH FOR SEAFOOD TRACK LIGHTS — PW-300 BZ-50
CHEESE ISLAND	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PW-300 BZ-50
PHARMACY	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) FOR 2X2 LIGHTING. PROVIDE STYLE-LINE WALL SWITCH FOR RECESSED FIXTURES AT BULKHEAD OVER PHARMACY COUNTER — PW-300 BZ-50
PHARMACY CONSULT. ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
DEPT HEADS OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
ASSISTANT MANAGER OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
EMPLOYEE LOUNGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
CASH ACCOUNTABILITY	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
PRODUCE PREPACK	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
SCAN ROOM OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
ACCOUNTING OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
COMMUNICATIONS CLOSET	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
WINE and SPIRITS STORAGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
CLINIC/EXAM ROOMS	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
HOME COOKING ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PW-300 BZ-50
HR OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
DIETITIAN OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
DIRECTORS OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
ACCOUNTING STORAGE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
JANITORS CLOSET	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
MOTHERS ROOM	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
PHARMACY STORAGE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
BACK STOREROOM/DOCK (with SKYLIGHTS)	WATTSTOPPER LS-102 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — LS-102 BZ-50
INDIVIDUAL RESTROOMS	WATTSTOPPER CI-200-1 CEILING MOUNTED OCCUPANCY SENSOR (EACH RESTROOM OR STALL) WITH BZ-150 POWER PACK AND DCC2/W WALL CONTROL — DCC2/W-1, BZ-150 DCC2/W
FREEZERS and COOLERS (except BEER COOLER)	WATTSTOPPER CB-100 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S). (VERIFY LOCATION OF BZ-50 POWER PACK - INSIDE OR OUTSIDE OF FREEZER/COOLER) — CB-100 BZ-50
BEER COOLER	STYLE-LINE WALL SWITCH
WINE TASTING ROOM	STYLE-LINE WALL SWITCH
FRONT ELECTRIC ROOM	STYLE-LINE WALL SWITCH
VESTIBULES	NO CONTROLS (TO BE SWITCHED BY PANELBOARD BREAKER)
DEPT HEADER TRACK LIGHTS	NO CONTROLS (TO BE SWITCHED BY PANELBOARD BREAKER)

NOTES:

1. COORDINATE ALL LIGHTING CONTROLS WITH DRAWINGS PREPARED BY ENERGY MANAGEMENT CONSULTANTS.
2. ANY AREA NOT LISTED ABOVE SHALL BE CONTROLLED BY A STYLE-LINE WALL SWITCH.

CIRCUIT 'MARKET GRILLE' LIGHTING FIXTURES TO ELECTRICAL PANELS 'S', 'U1' , AND 'L' (EMER PANEL)

PROVIDE A PERMANENT PLASTIC PLAQUE LABEL FOR EACH SWITCH DESCRIBING ITS USE AND CIRCUIT NUMBER

PROVIDE DEEP BOXES FOR DIMMER SWITCHES

1	2	3	4	
DIMMER 120V BAR RECESSED (CKT: S-6)	DIMMER 120V EMER. LTG (CKT: L-25)	DIMMER 120V OVERHEAD RECESSED (CKT: S-8)	DIMMER 120V BACK BAR DISPLAY (CKT: S-10)	4 GANG COVERPLATE

5	6	7	8	9	
DIMMER 120V HAIR FLOODS (6 HEADS) (CKT: S-12)	DIMMER 120V BAR TRELLIS (CKT: S-20)	DIMMER 120V DRUM LIGHTS (CKT: U-34)	DIMMER 120V TRAOK PENDANTS (CKT: U-36)	DIMMER 120V CYLINDER LIGHTS (CKT: U-38)	5 GANG COVERPLATE

2 / E3.1 'MARKET GRILLE' LIGHTING SWITCH LAYOUT

SCALE: NONE

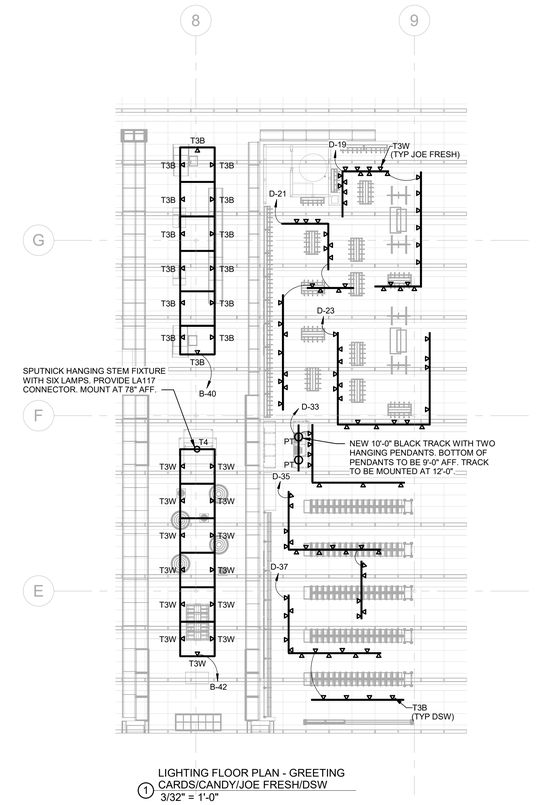
PROVIDE A PERMANENT PLASTIC PLAQUE LABEL FOR EACH SWITCH DESCRIBING ITS USE AND CIRCUIT NUMBER

PROVIDE DEEP BOXES FOR DIMMER SWITCHES

1	2	3	
DIMMER 120V HUMIDOR (CKT:B-21)	0-10V DIMMER 120V WINE RM OVHLTS (CKT: B-30)	0-10V DIMMER 120V WINE RM DWNLTS (CKT: B-36)	3 GANG COVERPLATE

3 / E3.1 'WINE & SPIRITS' LIGHTING SWITCH LAYOUT

SCALE: NONE



1 LIGHTING FLOOR PLAN - GREETING CARDS/CANDY/JOE FRESH/DSW

3/32" = 1'-0"

REVISION		DATE BY
2	ASI #2	01/07/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI — VINCENT G. MASILIONIS — NUMBER PE-2008008670 — PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

LIGHTING SCHEDULES AND DETAILS

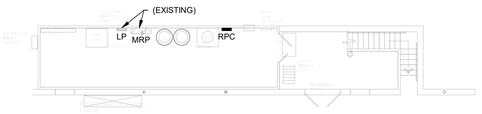
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

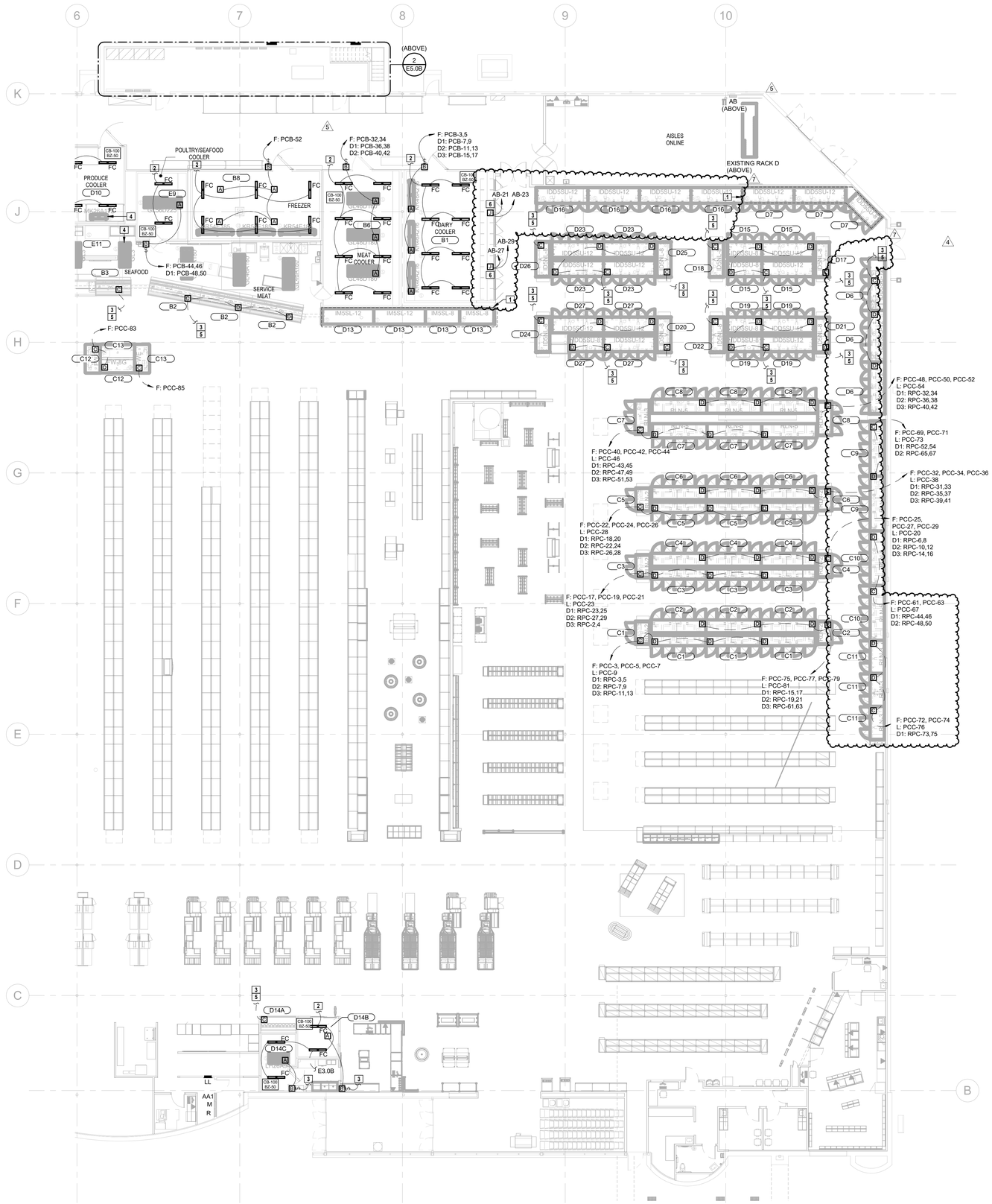
E3.1

VINCENT G. MASILIONIS

4/20/2021 3:23:41 PM



ELECTRICAL PLAN - REFRIGERATION
MEZZANINE
3/32" = 1'-0"



REFRIGERATION ELECTRICAL PLAN - PART B
1
3/32" = 1'-0"

REFRIGERATION GENERAL NOTES:

1. ALL REFRIGERATION CIRCUITS TERMINATE IN REFRIGERATION EQUIPMENT ROOM.
2. ALL SALES AREA REFRIGERATED CASE LIGHTING CIRCUITS ARE GANGED AND SINGLE RUN TO PANEL AS INDICTED.
3. ALL COIL FANS IN COOLERS AND FREEZERS SHALL BE WIRED FOR CONTINUOUS OPERATION. COIL FANS IN PRODUCE PREPACK AND MEAT CUTTING ROOMS SHALL BE WIRED THROUGH A SWITCH AND SOLENOID VALVE.
4. 1/2" CONDUIT FOR CONTROL SYSTEM, SEE REFRIGERATION DRAWINGS FOR DETAILS. CONDUIT TO BE STUBBED UP AT SAME LOCATION AS ELECTRICAL STUBUP.
5. ELECTRICIAN TO PROVIDE ALL CONTROL WIRING FOR REFRIGERATION SYSTEM. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR.
6. WIRE ONE PORCELAIN LAMPHOLDER WITH RED 40W LAMP TO THE CONTROLS OF EACH RACK AND/OR EACH PROTOCOL UNIT. ELECTRICIAN TO FURNISH LAMPHOLDERS AND LAMPS. VERIFY LOCATION WITH REFRIGERATION CONTRACTOR.
7. WIRE ONE REMOTE ALARM PANEL. VERIFY LOCATION WITH THE REFRIGERATION CONTRACTOR. (TYPICALLY OUTSIDE THE MACHINE ROOM DOOR)
8. PROVIDE WIRING FOR ELECTRIC DEFROST TO DEFROST PANEL WHERE APPLICABLE.
9. THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO HY-VEE A PARTIAL AS-BUILT DRAWING, ALONG WITH EVERY PAYMENT REQUEST, FOR ANY UNDERGROUND ELECTRICAL WORK. THE AS-BUILT SHALL PROVIDE ACCURATE INFORMATION ON CONDUIT SIZE AND LOCATIONS ALONG WITH APPROXIMATE DEPTH OF LINES. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A FINAL AND COMPLETE AS-BUILT DRAWING WITH PAYMENT REQUEST WHEN ALL UNDERGROUND WORK HAS BEEN COMPLETED AND APPROVED BY HY-VEE.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR ROUGH-INS AND STUB-UPS WITH OWNER BEFORE CONSTRUCTION AND INSTALLATION BEGINS.
11. COILS WITH ELECTRIC DEFROST TO BE WIRED FOR 208V-1PH. SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.
12. ALL TEMP. SENSORS THAT ARE FIELD INSTALLED IN CASES, COOLERS, FREEZERS, MEAT CUTTING ROOM, PRODUCE PREP ROOM SHALL BE FURNISHED BY REFRIGERATION CONTRACTOR, WIRE PULLED BY ELECTRICIAN AND INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR. REFRIGERATION CONTROLS CONTRACTOR TO TERMINATE AND FURNISH TERMINATION POINT DRAWING.
13. ALL REFRIGERATED CASES ARE FACTORY WIRED TO JUNCTION BOX ON CASES AND IDENTIFICATION TAGGED.
14. SEE REFRIGERATION DRAWINGS FOR WIRING DIAGRAM FOR CONDENSER AND COMPRESSOR RACK CONTROLS.
15. REFRIGERATION CONTRACTOR SHALL FURNISH PIPE HEATING TAPES OF LENGTHS AS REQ'D FOR CONDENSATE DRAIN LINES INSIDE OF WALK-IN FREEZER, BAKERY FREEZER, MEAT COOLER, SEAFOOD COOLER, KITCHEN FREEZER, AND PKGD. MEAT COOLER. INSTALLED BY ELECTRICIAN.
16. RUN (2) - #14 CONTROL WIRES TO ALL REFRIGERATION CONTROL VALVES FOR EACH SYSTEM, ALL COOLERS AND FREEZERS, ALL LOW TEMP. CASES AND ALL MED TEMP. CASES. WIRES MAY BE RUN IN CONDUIT WITH OTHER POWER LINES. KOOL GAS DEFROST SYSTEMS REQUIRE AN ADDITIONAL PAIR OF #14 CONTROL WIRES, SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.

REFRIGERATION SYMBOLS

A	CONDUIT FROM OVERHEAD TO JUNCTION BOX ON COIL UNIT. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC...(FIELD VERIFY PANELS, CIRCUITS, ETC..)
B	CONDUIT FROM OVERHEAD TO JUNCTION BOX ON TOP OF CASE. COOLER OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC...(FIELD VERIFY PANELS, CIRCUITS, ETC..)
C	CONDUIT STUBBED UP AT DIMENSION SHOWN WITH 4 X 4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE. OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC...(FIELD VERIFY PANELS, CIRCUITS, ETC..)
D	RUN 4X4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE. ELECTRICIAN TO PROVIDE WIRING, CONDUIT, AND CIRCUITS FOR CASE OR COOLER LIGHTS, FANS, ETC. (FIELD VERIFY PANEL, CIRCUITS, ETC.) AND REFRIGERATION CONTROL WIRING. ROUTE WIRING OVERHEAD OR UNDER FLOOR TO CASES IN ORDER TO MINIMIZE FLOOR REMOVAL AND REPLACEMENT AND TO KEEP DISRUPTIONS TO STORE OPERATIONS HELD TO A MINIMUM. COORDINATE ALL ELECTRICAL WITH G.C. AND REFRIGERATION WORK.
A1	REFRIGERATION 'SYSTEM' DESIGNATION. SEE 'R' DRAWINGS FOR FURTHER INFORMATION.

F: FANS
L: LIGHTS

D1: DEFROST CIRCUIT 1
D2: DEFROST CIRCUIT 2
D3: DEFROST CIRCUIT 3

REFRIGERATION PLAN NOTES

1. EXISTING REFRIGERATED CASE TO REMAIN.
2. CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.
3. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
4. EXISTING COOLER/FREEZER AND COIL(S) TO REMAIN.
5. EXISTING CIRCUIT INFORMATION WAS NOT ABLE TO BE DETERMINED FROM ARCHIVED DRAWINGS AND FIELD SURVEYS. CONTRACTOR TO VERIFY INFORMATION ON JOB.
6. PROVIDE NEMA-3R JUNCTION BOX FOR COOLER DOOR LIGHTS AND ANTI-SWEAT HEATERS. PROVIDE CONNECTION TO EACH SET OF DOOR FRAMES. COORDINATE REQUIREMENTS WITH EQUIPMENT INSTALLER AND OTHER TRADES PRIOR TO INSTALLATION AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY.

REVISION		DATE BY
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021
VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

hyvee® EMPLOYEE OWNED

NORTH
PLAN NORTH

REFRIGERATION ELECTRICAL POWER PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E5.0B

VINCENT G. MASILIONIS
4/20/2021 3:24:02 PM

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-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.

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	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

5

HVAC LOW VOLTAGE NOTES

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

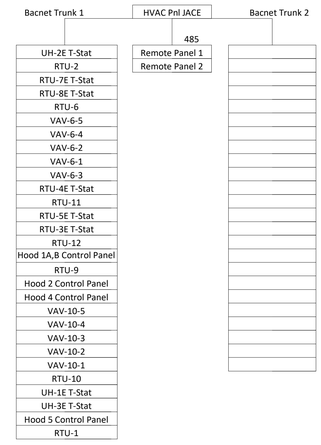
Network for VAV's will terminate in the VAV damper section next to electric

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



REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #7	04/20/21

ENGINEER SEAL



HUSSMANN
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of 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) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

CONTROL WIRE PULLS

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

SHEET:

E6.1

PRELIMINARY - NOT FOR CONSTRUCTION

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

GENERAL NOTES

1. SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
2. 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.
3. ELECTRICIAN TO MAKE ALL TERMINAL CONNECTIONS TO THE 16 AI BOARD AND 8RO BOARDS.
4. ELECTRICIAN TO CONNECT ALL SENSORS AND CONTROL SWITCHES.
5. ELECTRICIAN TO CONNECT CPC CONTROLLERS TO 16AI AND 8RO BOARDS (22GA, 3 CONDUCTOR BELDEN NO.8761)
6. CPC CONTROLLERS, 16AI BOARDS, AND 8RO BOARDS ARE SUPPLIED AND MOUNTED BY HUSSMANN.
7. ALL SENSORS AND CONTROL SWITCHES SUPPLIED AND MOUNTED BY REFRIGERATION CONTROLS CONTRACTOR.
8. REFER TO CONSTRUCTION ELECTRICAL DRAWINGS FOR INFORMATION ON REFRIGERATED CASE FANS, CASE LIGHTS, ETC.
9. ELECTRICIAN TO MAKE ELECTRICAL TRANSFORMER CONNECTIONS TO ALL CPC CONTROLLERS, 16 AI BOARDS, AND 8RO BOARDS.
10. ELECTRICIAN TO CONNECT 8RO BOARDS TO CORRESPONDING CONNECTION POINTS INCLUDING CONDENSER FANS.
11. ELECTRICIAN TO PROVIDE 110 VOLT CIRCUIT TO EACH CONTROLLER (TYPICAL 3) AND TO REFRIGERANT AND ALARM PANEL. FIELD VERIFY LOCATION.
12. ALL NETWORK COMMUNICATIONS WIRING SHOULD BE BELDEN #8761 OR EQUIVALENT. DO NOT RUN COMMUNICATIONS WIRING WITH LINE VOLTAGE.
13. ALL CONTROL WIRE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
14. ELECTRICIAN TO PROVIDE (1) 18-2 CABLE TO THE PRODUCE PREP ROOM FROM THE CONTROLLER FOR A CLEAN SWITCH.
15. 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 R5 SHEETS FOR DETAILS.
16. 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.
17. TEMPERATURE SENSORS FOR WALKIN COOLERS/FREEZERS ARE FIELD PROVIDED & INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR. FIELD VERIFY LOCATION.
18. TEMPERATURE SENSORS FOR EXISTING CASES NOT EQUIPPED SHALL PROVIDED & INSTALLED BY REFRIGERATION CONTRACTOR.

RACK/PROTOCOL KEYNOTES

A. 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 BELDON CABLE. THE BELDEN CABLE TO BE TERMINATED AT ASSOCIATED RACK.

B. 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.

C. 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 # DS1109) WIRING DIAGRAM SUPPLIED WITH DOOR SWITCH.

D. 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.

E 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.

F ELECTRICIAN TO PROVIDE (1) 18-2 CABLE TO THE FIXTURE FROM THE CONTROLLER FOR A CLEAN SWITCH. CONTROLS CONTRACTOR TO PROVIDE MOMENTARY SWITCH.

G 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 EXAMPLE "A23".
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.

X ELECTRICIAN TO RUN CABLE BACK TO CORRESPONDING REMOTE CONTROL PANEL.

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

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

ENGINEER SEAL

STATE OF MISSOURI
SHANNAH EITTER
NUMBER E2001000891
REGISTERED PROFESSIONAL ENGINEER

HUSSMANN
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF HUSSMANN CORPORATION, SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements only. Hussmann assumes no further responsibility. All specifications involving refrigeration equipment may be changed without prior written notice. The use of this drawing for structural and architectural purposes is not authorized. It is the responsibility of the Architect, Structural, Electrical and Mechanical Engineers to verify and coordinate accuracy of 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) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

CONTROL WIRE PULLS

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

SHEET: E7.1

PRELIMINARY - NOT FOR CONSTRUCTION

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

CONTROL WIRE PULLS

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

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.

   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.
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 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.
5. ELECTRICIAN TO PROVIDE SPLIT CONDENSER WIRING. SEE E7.3 FOR DETAIL.
6. ELECTRICIAN TO PROVIDE HEAT RECLAIM WIRING. SEE E7.3 FOR DETAIL.

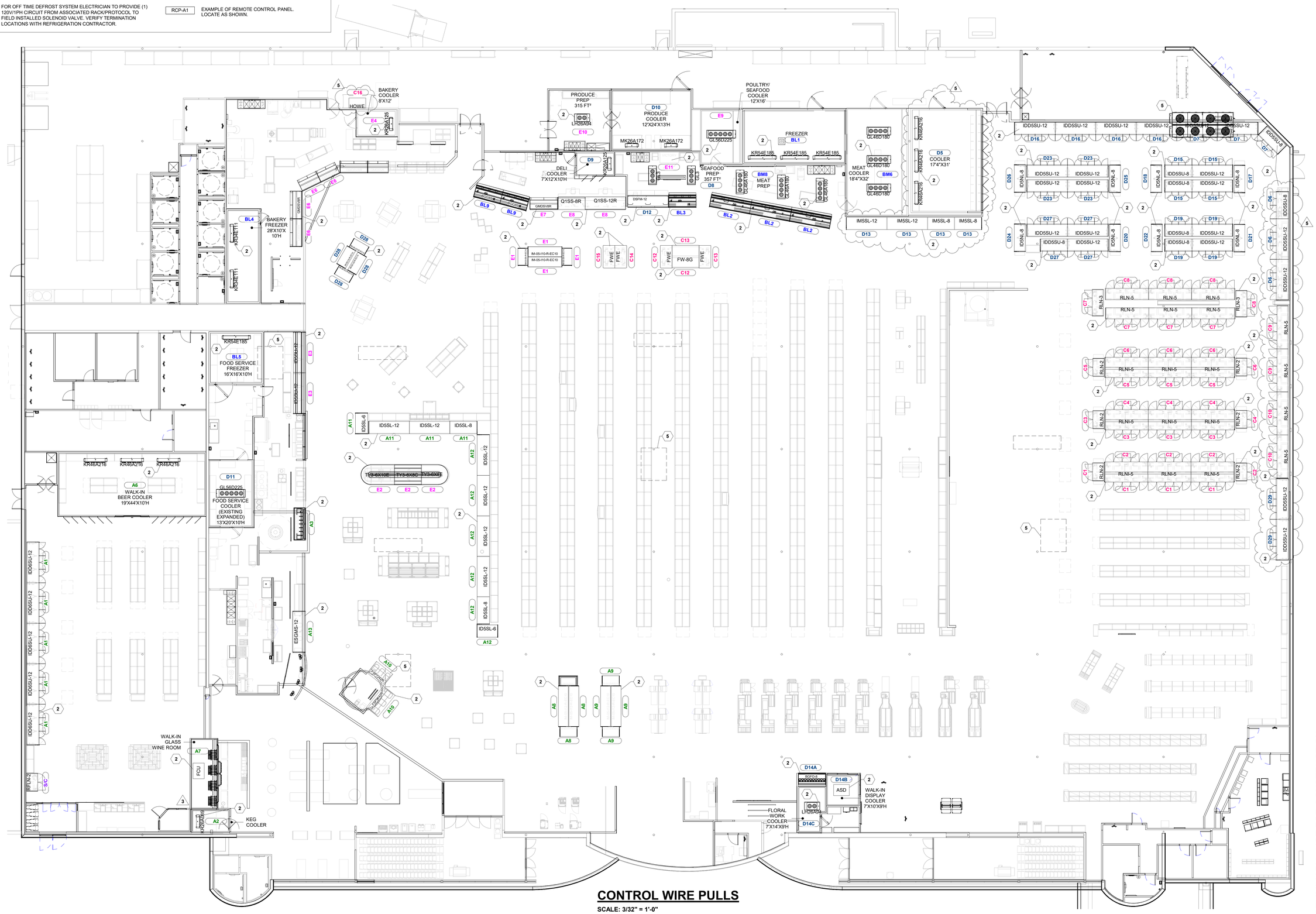
(X) ELECTRICIAN TO RUN CABLE BACK TO CORRESPONDING REMOTE CONTROL PANEL.

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

GENERAL NOTES

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

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21



CONTROL WIRE PULLS

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

HUSSMANN

Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS PROPRIETARY INFORMATION OWNED BY HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

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

ENGINEER SEAL



LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

CONTROL WIRE PULLS

PRELIMINARY - NOT FOR CONSTRUCTION

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

SHEET:

E7.2

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

PROTOCOL A BUSBAR

PROTOCOL BUSBAR LAYOUT SHEET — PROTOCOL A

CUSTOMER: HY-VEE
STORE NAME: LEE'S SUMMIT #2

115 VOLT CASE LOADS — 208/3 V BUSBAR #1

	CKT	L1	L2	L3	CKT	
CONTROL & RECEPTACLE	1	9.0	31.9			ZB50NCE
60 ICEMELT FANS	1		4.5	31.9		COMP #1
60 ICEMELT LTE	1			5.7	31.9	BREAK 40A / CONT. 40A
HENHAWK FANS	2	1.8	11.9			ZB30NCE
FB150STR FANS 60	3		1.7	11.9		COMP #2
FB150STR LTE 1P35A PLAY	1			5.7	11.9	BREAK 40A / CONT. 50A
			31.9			ZB70NCE
				31.9		COMP #3
					31.9	BREAK 40A / CONT. 40A
		0.8	2.4			26 IMSR FANS
(3)HRAH216 FANS 1P35A	3			0.9	4.4	26 IMSR LTE 1P35A PLAY
25 IMSR FANS	3	2.4	4.5			9.6 8.3 42 OSSL FANS
25 IMSR LTE 1P35A PLAY	1			4.4	7.2	12 32 OSSL LTE

CASE LINE LOADS	20.4	24.8	24.3
COMP.	79.7	79.7	79.7
MAX DEFROST			
HIGH LEG MCA	120.1	125.4	125.0
HIGH LEG RLA	96.1	100.3	100.0

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #2

	CKT	L1	L2	L3	CKT	
ZB50NCE		31.9				
COMP #4			31.9	2.5	11	36 OSSL FANS
BREAK 40A / CONT. 40A				31.9	4.4	11 36 OSSL LTE
ZB70NCE		31.9				
COMP #5			31.9			
BREAK 40A / CONT. 40A				31.9		
ZB70NCE		31.9				
COMP #6			31.9			
BREAK 40A / CONT. 40A				31.9		
CONDENSER	A	21.6				
BREAKER			21.6			
3P-50A				21.6	2.0	A CRANKCASE HEATERS
12 ES30HS FANS	10	0.3	2.0			2P30A
12 ES30HS LTE 1P35A PLAN	10			0.8	PS1	PS1 39A
						PS1 PS1

CASE LINE LOADS	2.3	3.3	6.4
COMP. RLA	117.3	117.3	117.3
MAX DEFROST			
HIGH LEG MCA	149.5	160.8	164.6
HIGH LEG RLA	119.6	128.6	131.7

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #3

	CKT	L1	L2	L3	CKT	

CASE LINE LOADS	0.0	0.0	0.0
MAX DEFROST			
HIGH LEG MCA	0.0	0.0	0.0
HIGH LEG RLA	0.0	0.0	0.0
UNIT MCA :	269.6	279.2	279.6
UNIT RLA :	215.7	231.5	233.1
UNIT DATA:	RLA 231.7	MCA 279.6	MOPD 300

PROTOCOL B BUSBAR

PROTOCOL BUSBAR LAYOUT SHEET — PROTOCOL B

CUSTOMER: HY-VEE
STORE NAME: LEE'S SUMMIT #2

115 VOLT CASE LOADS — 208/3 V BUSBAR #1

	CKT	L1	L2	L3	CKT	
CONTROL & RECEPTACLE	1	9.0	24.5			ZP23SHVE
(QWRAM118) FANS	1			6.0	24.5	COMP #1
FAN KILL RELAY	1					BREAK 40A / CONT. 40A
HBAE160 DEF HTR	1	21.7	24.5			ZP23HVE
ZP30A PLAY	1			21.7	24.5	COMP #2
HBAE160 DEF HTR	1					BREAK 40A / CONT. 40A
ZP30A PLAY	1	21.7	27.3			ZP23BVE
HBAE160 DEF HTR	1			21.7	27.3	COMP #3
ZP30A PLAY	1					BREAK 40A / CONT. 40A
(QWRAM117) FANS	4	2.4	2.0			3 (U)(L)40/160 FANS
FAN KILL RELAY	1			2.4	2.0	FAN KILL RELAY
(QWRAM117) DEF HTR	4					26.0 21.7 3 (U)(L)40/160 DEF HTR
ZP40A PLAY	1	26.0	21.7			ZP30A PLAY

CASE LINE LOADS	13.4	10.4	6.0
COMP.	76.3	76.3	76.3
MAX DEFROST	43.4	43.4	43.4
HIGH LEG MCA	166.4	162.6	157.1
HIGH LEG RLA	133.1	130.1	125.7

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

JOB #: ##
QUOTE #: ##
REV:

208/3 V BUSBAR #2

	CKT	L1	L2	L3	CKT	
ZB50NCE		31.9	2.4			4 (U)(L)40/160 FANS
COMP #4			31.9	2.4		FAN KILL RELAY
BREAK 40A / CONT. 40A				31.9	27.8	4 (U)(L)40/160 DEF HTR
ZB60NCE		31.9	27.8			ZP40A PLAY
COMP #5				31.8	13.9	8 (L)40/160 DEF HTR
BREAK 40A / CONT. 40A						ZP30A PLAY
ZB60NCE		31.9	PS2	31.9	PS1	PS2 PS2
COMP #6			31.9	PS2		PS2
BREAK 40A / CONT. 40A				31.9	PS1	PS1 PS1
CONDENSER	A	21.6	PS1			PS1
BREAKER			21.6	3.6		3 (U)(L)40/160 FANS 1P15A
CRANKCASE HEATERS	B	2.0				
2P20A			2.0	0.6		6 (L)GSL LTE 1P20A PLAY

CASE LINE LOADS	4.4	17.6	0.0
COMP. RLA	117.3	117.3	117.3
MAX DEFROST	27.8	13.9	41.7
HIGH LEG MCA	186.9	186.0	186.8
HIGH LEG RLA	149.5	148.8	149.5

JOB #: ##
QUOTE #: ##
REV:

208/3 V BUSBAR #3

	CKT	L1	L2	L3	CKT	

CASE LINE LOADS	0.0	0.0	0.0
MAX DEFROST			
HIGH LEG MCA	0.0	0.0	0.0
HIGH LEG RLA	0.0	0.0	0.0
UNIT MCA :	353.3	348.8	350.9
UNIT RLA :	282.6	278.9	284.7
UNIT DATA:	RLA 284.7	MCA 350.9	MOPD 400

BUSSBAR NOT USED

PROTOCOL C BUSBAR

PROTOCOL BUSBAR LAYOUT SHEET — PROTOCOL C

CUSTOMER: HY-VEE
STORE NAME: LEE'S SUMMIT #2

115 VOLT CASE LOADS — 208/3 V BUSBAR #1

	CKT	L1	L2	L3	CKT	
CONTROL & RECEPTACLE	1	9.0	20.2			ZS034CE
32 IMSSC FANS	1			2.4	20.2	COMP #1
32 IMSSC LTE 1P30A PLAY	1					BREAK 30A / CONT. 30A
26 TC060Y FANS	2	7.0	14.1			ZS030CE
26 TC060Y LTE 1P30A PLAY	2			2.1	14.1	COMP #2
24 ES50J FANS	3					BREAK 20A / CONT. 30A
24 ES50J LTE	3	2.8	14.1	1.9	14.1	ZS026CE
26 GM50VR FANS/LTE	5		13.2	14.1		COMP #3
SPARE	4				4.1 14.1	BREAK 30A / CONT. 30A
HSXA120 FANS 1P10A	4	1.6				
UXB5A4A FANS 1P10A	4		1.8	2.0		E CRANKCASE HEATERS
HSXA120 FANS 1P10A	4				2.0	2P30A
			PS1		PS1	PS1 PS1

CASE LINE LOADS	20.4	21.5	12.1
COMP.		48.4	48.4 48.4
MAX DEFROST			
HIGH LEG MCA	86.0	87.4	75.6
HIGH LEG RLA	68.8	69.9	60.5

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #2

	CKT	L1	L2	L3	CKT	
ZP28HVE		27.3	8.3		4	0.2W RLN/ FANS/HTRS
COMP #4			27.3	8.3	7	0.2W RLN/ FANS/HTRS
BREAK 40A / CONT. 40A				27.3	11.3	6 2H-0.2W RLN/W FANS/HTRS
ZP28HVE		27.3	2.9		7	0.2W RLN/ FANS/HTRS
COMP #5			27.3	8.3	7	0.2W RLN/ FANS/HTRS
BREAK 40A / CONT. 40A				27.3	11.3	6 2H-0.2W RLN/W FANS/HTRS
ZP28HVE		27.3	13.1		4	0.2W RLN/ FANS/HTRS
COMP #6				27.3	2.9	6 1E-0.2W RLN/ LTS
CONDENSER	C	21.6	8.3			
BREAKER			21.6	13.1		
3P-50A				21.6	2.9	

CASE LINE LOADS	32.6	32.6	30.7
COMP RLA	103.5	103.5	103.5
MAX DEFROST			
HIGH LEG MCA	170.1	170.1	167.8
HIGH LEG RLA	136.1	136.1	134.2

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #3

	CKT	L1	L2	L3	CKT	
0.2W RLN/ FANS/HTRS	4	8.3				
0.2W RLN/ FANS/HTRS	7		8.3			
0.2W RLN/ FANS/HTRS	7			8.3		
0.2W RLN/ FANS/HTRS	7	8.3				
0.2W RLN/ FANS/HTRS	7		8.3			
0.2W RLN/ FANS/HTRS	7			8.3	1	2PWE
1E 0.2W RLN/ LTS	10	2.5			11	2PWE
1E 0.2W RLN/ LTS	10		2.5		11	2PWE
0.2W RLN/ FANS/HTRS	7			8.3		
2H-1E 0.2W RLN/W FANS/HTRS	11	3.3				
2H-1E 0.2W RLN/W LTS	11		2.9			
6HE FW FANS/HTRS	10			2.4		
6HE FW FANS/HTRS	10	2.4				
PWE FANS/HTRS	10		0.6	2.0		C CRANKCASE HEATERS
PWE FANS/HTRS	10			0.6	2.0	2P30A

CASE LINE LOADS	27.0	30.4	21.7
COMP. RLA			
MAX DEFROST			
HIGH LEG MCA	33.8	38.0	27.1
HIGH LEG RLA	27.0	30.4	21.7
UNIT MCA :	366.5	359.5	342.7
UNIT RLA :	293.2	287.6	274.1
UNIT DATA:	RLA 293.2	MCA 366.5	MOPD 400

REMOTE DEFROST PANEL C BUSBAR

PROTOCOL BUSBAR LAYOUT SHEET — REMOTE PANEL C

CUSTOMER: HY-VEE
STORE NAME: LEE'S SUMMIT #2

JOB #: 344600
QUOTE #: 95954

115 VOLT CASE LOADS — 208/3 V BUSS-BAR #1

	CKT	L1	L2	L3	CKT	
CONTROL & RECEPTACLE	1	10.0	23.5			3 2H-0.5W RLN+RLNI DEF HTR
0.5W RLN/ DEF HTR	1			16.8	23.5	ZP30A PLAY
ZP30A PLAY	1	16.8	16.8			0.5W RLN/ DEF HTR
0.5W RLN/ DEF HTR	1			16.8	16.8	ZP30A PLAY
ZP30A PLAY	2					4 0.5W RLN/ DEF HTR
2H-0.5W RLN/W DEF HTR	1			23.5	16.8	ZP30A PLAY
ZP30A PLAY	1	23.5	23.5			4 2H-0.5W RLN/W DEF HTR
0.5W RLN/ DEF HTR	2					ZP30A PLAY
ZP30A PLAY	2		16.8	23.5		0.5W RLN/ DEF HTR
2H-0.5W RLN/W DEF HTR	2	23.5	16.8			5 2H-0.5W RLN/W DEF HTR
ZP30A PLAY	1			23.5	16.8	ZP30A PLAY
0.5W RLN/ DEF HTR	1					5 2H-0.5W RLN/W DEF HTR
ZP30A PLAY	1	16.8	23.5			ZP30A PLAY
0.5W RLN/ DEF HTR	1		16.8	23.5		
ZP30A PLAY	1				16.8	

CASE LINE LOADS	10.0	0.0	0.0
MAX DEFROST	40.4	40.4	40.4
HIGH LEG MCA	66.5	50.5	50.5
HIGH LEG RLA	53.4	40.4	40.4

THIS PANEL'S SUPPLEMENTAL PROTECTION IS SIZED FOR X OF THE LARGEST SYSTEMS TO BE IN DEFROST AT ONE TIME.

208/3 V BUSS-BAR #2

	CKT	L1	L2	L3	CKT	
0.5W RLN/ DEF HTR	8	16.8	16.8			8 0.5W RLN/ DEF HTR
ZP30A PLAY	1			16.8	16.8	ZP30A PLAY
0.5W RLN/ DEF HTR	8					0.5W RLN/ DEF HTR
ZP30A PLAY	1	16.8	16.8			ZP30A PLAY
2H-0.5W RLN/W DEF HTR	8			23.5	26.9	8 0.5W RLN/ DEF HTR
ZP30A PLAY	1	23.5	26.9			ZP30A PLAY
0.5W RLN/ DEF HTR	7					0.5W RLN/ DEF HTR
ZP30A PLAY	1	16.8	16.8			ZP30A PLAY
0.5W RLN/ DEF HTR	7			16.8	16.8	8 0.5W RLN/ DEF HTR
ZP30A PLAY	1	16.8	16.8			ZP30A PLAY
0.5W RLN/ DEF HTR	7			26.9	16.8	10 0.5W RLN/ DEF HTR
PS1	PS1	PS1				11 SPARE
PS1			PS1			ZP40A PLAY

CASE LINE LOADS	0.0	0.0	0.0
MAX DEFROST	33.6	40.4	40.4
HIGH LEG MCA	42.1	50.5	50.5
HIGH LEG RLA	33.6	40.4	40.4

208/3 V BUSS-BAR #3

	CKT	L1	L2	L3	CKT	
0.5W RLN/ DEF HTR	2	16.8	21.8			3 2H-0.5W RLN/W DEF HTR
ZP30A PLAY	1			16.8	21.8	ZP30A PLAY
0.5W RLN/ DEF HTR	10					0.5W RLN/ DEF HTR
ZP30A PLAY	1	16.8	21.8			ZP30A PLAY
PS2	PS2			6.5		14 PWE DEF HTR
PS2			6.5		6.5	ZP30A PLAY
SPARE	11	6.5				15 PWE DEF HTR
ZP30A PLAY	PS2			6.5		ZP30A PLAY
PS6	PS2			PS6	PS5	PS5 PS5
PS6	PS2	PS6	PS5			PS5
PS3	PS2		PS3	PS6		PS6 PS6
PS3	PS2			PS3	PS6	PS6
PS4	PS2	PS4	PS7			PS7 PS7
PS4		PS4	PS7			PS7

CASE LINE LOADS	0.0	0.0	0.0
MAX DEFROST	21.8	21.8	21.8
HIGH LEG MCA	27.4	27.4	27.4
HIGH LEG RLA	21.8	21.8	21.8

UNIT DATA: RLA 107.8 MCA 134.8 MOPD 150

PROTOCOL E BUSBAR

PROTOCOL BUSBAR LAYOUT SHEET — PROTOCOL E

CUSTOMER: HY-VEE
STORE NAME: LEE'S SUMMIT #2

115 VOLT CASE LOADS — 208/3 V BUSBAR #1

	CKT	L1	L2	L3	CKT	
CONTROL & RECEPTACLE	1	9.0	20.2			ZS034CE
2 IMSSC FANS	1			2.4	20.2	COMP #1
32 IMSSC LTE 1P30A PLAY	1					BREAK 30A / CONT. 30A
26 TC060Y FANS	2	7.0	14.1			ZS030CE
26 TC060Y LTE 1P30A PLAY	2			2.1	14.1	COMP #2
24 ES50J FANS	3					BREAK 20A / CONT. 30A
24 ES50J LTE	3	2.8	14.1	1.9	14.1	ZS026CE
26 GM50VR FANS/LTE	5		13.2	14.1		COMP #3
SPARE	4				4.1	14.1 BREAK 30A / CONT. 30A
HSXA120 FANS 1P10A	4	1.6				
UXB5A4A FANS 1P10A	4		1.8	2.0		E CRANKCASE HEATERS
HSXA120 FANS 1P10A	4				2.0	2P30A
			PS1		PS1	PS1 PS1

CASE LINE LOADS	20.4	21.5	12.1
COMP.		48.4	48.4 48.4
MAX DEFROST			
HIGH LEG MCA	86.0	87.4	75.6
HIGH LEG RLA	68.8	69.9	60.5

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #2

	CKT	L1	L2	L3	CKT	
ZS40HCE		20.2	1.0			4 (L)GSL/ FANS
COMP #4			20.2	1.0		FAN KILL RELAY
BREAK 50A / CONT. 50A				20.2		
ZS40HCE		22.8				
COMP #5			22.8	17.4		4 (L)GSL/ FANS
BREAK 40A / CONT. 50A				22.8	17.4	ZP30A PLAY
ZS030CE			0.0			
COMP #6				0.0		
CONDENSER	A	21.6				
BREAKER			21.6			
3P-50A				21.6		

CASE LINE LOADS	1.0	1.0	0.0
COMP. RLA	94.6	94.6	94.6 17.4
MAX DEFROST			
HIGH LEG MCA	82.0	103.8	102.5
HIGH LEG RLA	65.6	83.0	82.0

JOB #: ###
QUOTE #: ###
REV:

208/3 V BUSBAR #3

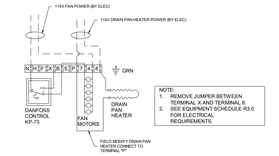
	CKT	L1	L2	L3	CKT	

CASE LINE LOADS	0.0	0.0	0.0
MAX DEFROST			
HIGH LEG MCA	0.0	0.0	0.0
HIGH LEG RLA	0.0	0.0	0.0
UNIT MCA :	168.0	161.1	178.1
UNIT RLA :	134.4	132.0	142.5
UNIT DATA:	RLA 132.0	MCA 161.1	MOPD 200

GENERAL NOTES

1. A "78FP" ON THE CIRCUIT DESCRIPTION INDICATES THAT THERE ARE TWO 1P20A MINI BREAKERS IN THE CORRESPONDING BREAKER POSITION.
2. REMOTE PANELS FACTORY SUPPLIED, FIELD INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION W/REFRIGERATION & REFRIGERATION CONTROLS CONTRACTORS.

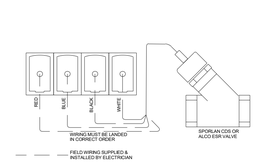
REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #6	03/25/21
4	ASI #7	04/20/21



NOTE:
1. REMOVE JUMPER BETWEEN TERMINAL X AND TERMINAL B
2. SEE EQUIPMENT SCHEDULE R3.0 FOR ELECTRICAL REQUIREMENTS.

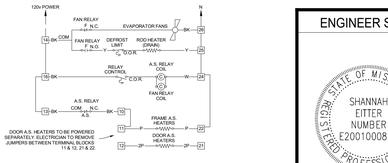
7 KR COIL GAS DEFROST DRAIN PAN HEATER WIRING DETAIL

SCALE: NTS



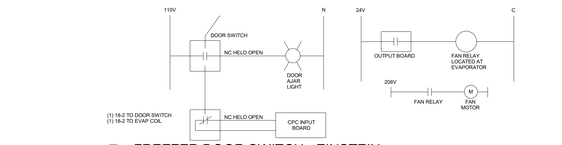
6 EEPR TERMINATION DETAIL

SCALE: NTS



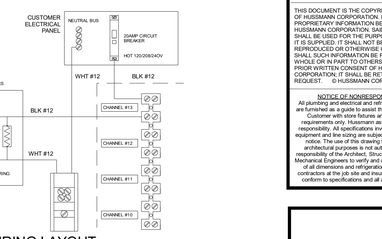
5 RLN, RLNI ANTI-SWEAT WIRING DETAIL

SCALE: NTS



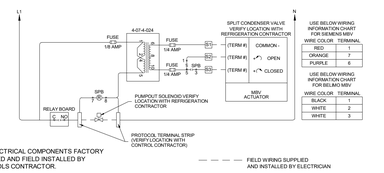
4 FREEZER DOOR SWITCH - EINSTEIN

SCALE: NTS



3 TYPICAL PMAC WIRING LAYOUT

SCALE: NTS

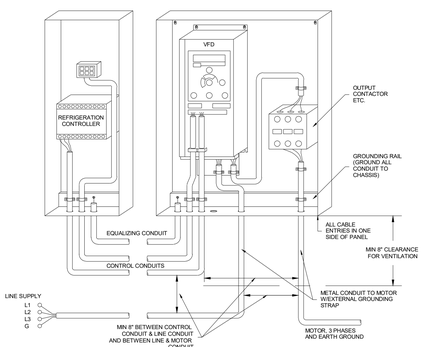


NOTE:
ALL ELECTRICAL COMPONENTS FACTORY SUPPLIED AND FIELD INSTALLED BY CONTROLS CONTRACTOR.

FIELD WIRING SUPPLIED AND INSTALLED BY ELECTRICIAN

2 PROTOCOL SPLIT CONDENSER WIRING DETAIL

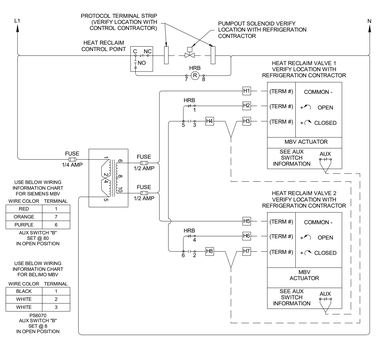
SCALE: NTS



8 VFD INSTALLATION DETAIL

SCALE: NTS

NOTES
1. GROUND ALL COMPONENTS APPROPRIATELY. SEE INSTALLATION MANUAL SUPPLIED WITH DRIVE FOR SPECIFIC INSTRUCTIONS.
2. MAINTAIN MINIMUM CLEARANCES AS NOTED.
3. LINE SIDE, MOTOR SIDE AND CONTROL WIRING SHALL BE IN SEPARATE METAL CONDUIT.
4. VERIFY LINE SIDE CONNECTIONS ARE LANDED CORRECTLY. APPLYING POWER TO THE MOTOR SIDE TERMINALS WILL DAMAGE THE VFD.
5. VERIFY MOTOR ROTATION AND MAKE CHANGES ON MOTOR SIDE
6. TORQUE ALL CONNECTIONS AS INDICATED IN INSTALLATION MANUAL.
7. SHIELDED TWISTED PAIR CABLE IS RECOMMENDED FOR CONTROL CABLING BUT SPECIFIC CABLING PROTOCOL REQUIREMENTS SHOULD BE VERIFIED.
8. CONTROL CABLE SHOULD AVOID CLOSE PROXIMITY TO HIGH VOLTAGE WIRING. WHEN UNAVOIDABLE, CROSS HIGH VOLTAGE CONDUIT IN A PERPENDICULAR FASHION.
9. VERIFY ACTUAL CONTROL REQUIREMENTS W.REFRIGERATION CONTROLS CONTRACTOR.
10. DO NOT USE ALUMINUM CONDUCTOR.



NOTE:
ALL ELECTRICAL COMPONENTS FACTORY SUPPLIED AND FIELD INSTALLED BY CONTROLS CONTRACTOR.

FIELD WIRING SUPPLIED AND INSTALLED BY ELECTRICIAN

1 PROTOCOL HEAT RECLAIM WIRING DETAIL

SCALE: NTS

ENGINEER SEAL

STATE OF MISSOURI — SHANNAH EITTER — NUMBER E2001000891 — REGISTERED PROFESSIONAL ENGINEER

hussmann
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS PROPRIETARY INFORMATION BELONGING TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY:
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of all dimensions and conditions at the store site and to advise Hussmann so 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) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH — PLAN NORTH

REFRIGERATION CONTROL DETAILS AND BUSBAR LAYOUT

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
6" = 1'-0"	95954

SHEET: E7.3

BIM 360://Hy-Vee Lee's Summit #2/LEE'S SUMMIT 2_Refrig_R20.rvt

THE STUB-UP LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY. COORDINATE FINAL STUB-UP LOCATIONS WITH EQUIPMENT CUT SHEETS, FINAL FIXTURE LOCATIONS, AND OTHER TRADES PRIOR TO INSTALLATION.

ELECTRICAL STUB-UP LEGEND	
■	LOCATION OF ELECTRICAL STUB-UP. REFER TO SHEETS E2.0 AND E5.0 FOR CIRCUIT INFORMATION
M, E, C	LOCATION OF ELECTRICAL OUTLET OR STUB-UP. REFER TO SHEETS E0.1 AND E2.0 FOR TYPE AND CIRCUIT INFORMATION

REVISION		DATE BY
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

PROFESSIONAL SEAL

STATE OF MISSOURI
VINCENT G MASILIONIS
NUMBER PE-2008008670
PROFESSIONAL ENGINEER

04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2933

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL STUB-UP PLAN

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

PE1.1

1 ELECTRICAL STUB-UP PLAN
3/32" = 1'-0"

4/21/2021 10:15:53 AM

VINCENT G. MASILIONIS

COMMUNICATIONS PLAN NOTES:

1. REFER TO E2.0 SHEETS FOR CIRCUIT AND ADDITIONAL INFORMATION.
2. 2" CONDUIT WITH PULLWIRE FOR OWNER FURNISHED REMOTE READER. COORDINATE LOCATION WITH OWNER.
3. 2" CONDUIT WITH PULLWIRE TO TOWER PROCESSOR FOR COMMUNICATIONS CABLE.
4. CUSTOMER SERVICE CONDUIT STUB UP LOCATION. ALL CONDUITS ROUTED TO THIS LOCATION AND BRANCH CIRCUITS, TELEPHONE AND NCR CABLES TO BE ROUTED IN CASEWORK AS REQUIRED. VERIFY NUMBER AND SIZE OF CONDUITS.
5. 1" CONDUIT WITH PULLWIRE FOR COMPUTER LOOP AND CABLE T.V. ROUTE CONDUIT TO ABOVE CEILING.
6. PROVIDE 4" CONDUIT FOR TELEPHONE SERVICE AND 2" CONDUIT FOR CABLE TV OUT TO 5' BEYOND BUILDING LINE .
7. PULL ONE CAT6 CABLE FOR EACH CASH REGISTER, ONE CAT6 CABLE FOR EACH CATALINA PRINTER, ONE CAT6 CABLE FOR EACH LANE HAWK AND ONE CAT5 CABLE FOR EACH TELEPHONE.

NOTES:
1. ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.
2. PULLSTRING REQUIRED IN ALL UNDERGROUND CONDUIT.
3. ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLING CONTRACTOR WORK BEGINS.

COMMUNICATIONS PLAN SYMBOLS:

- TELEPHONE/DATA OUTLET - CAT6
- TELEPHONE OUTLET - CAT6
- COMPUTER DATA OUTLET - CAT6
- CATALINA DATA OUTLET - CAT6
- REGISTER DATA OUTLET - CAT6
- JUNCTION BOX
- AP — WIRELESS AP - CAT6 CABLE TO TELEPHONE CLOSET
- POS — POINT OF SALE - (2) DATA REQUIRED
- PR — PRINTER - (2) DATA REQUIRED - BOX @+72"
- 10 — MOTION DECTECTOR

REVISION	DATE BY
ASI #2 – UDPATE WAS COUNTER LOCATION	1/8/21 bdp
ASI #4 – UDPATE COMM ROOM LOCATION. ADD COAX NOTE. ADD CONDUIT FOR DSM WALL	2/5/21 bdp
ASI #7 – RELOCATE ADL ROOM. UPDATE CUSTOMER SERVICE AREA. UPDATE CAKE DECORATOR AREA	4/21/21 bdp

(1) 1" CONDUIT WITH BOX @ +56" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +84" TO DECK

(1) 1" CONDUIT WITH BOX @ +18" TO ABOVE CEILING

CLEAR ZONE TO B/O STRUCTURE NO LIGHT FIXTURES, CONDUIT, SPRINKLER PIPING, REFRIG. PIPING, HVAC DUCT WORK, CEILING FANS, SPEAKERS, OR WATER PIPING SHALL BE MOUNTED BELOW.

(1) 1" CONDUIT WITH BOX @+50" ABOVE MAIN LEVEL FINISHED FLOOR TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" ABOVE RAMP FINISHED FLOOR TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" EXTEND CONDUIT DOWN TO BOX +18 CONDUIT TO ABOVE CEILING

4 CIRCUITS

SEE 3/T1.1

SEE 2/T1.2

BACK COMMUNICATIONS CLOSET

(10) 2" CONDUITS TO DECK STUBBED FROM COMM. ROOM TO SALES

ELEC TO PROVIDE POWER FOR WIRELESS PHONE ACCESS POINT CONNECTION +10' A.F.F.

PROVIDE (1) 1" CONDUIT TO ROOF DECK. RUN CABLE TO BACK COMM CLOSET FOR SALES AREA PHONE

EXTEND CONDUIT DOWN WALL TO BELOW COMM. ROOM CEILING

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

PROVIDE 1 COAX RGT1 FROM FRONT CLOSET TO BACK CLOSET

14'-5"

14'-1"

(1) 2" CONDUIT UNDERFLOOR

(2) 2" CONDUITS AT DECK STUBBED FROM WINE AND SPIRITS TO SALES

(1) 2" CONDUIT STUBBED UP INTO WALL WITH JUNCTION BOX

FRONT COMMUNICATIONS CLOSET

PROVIDE (2) 2" CONDUITS FROM UNDERFLOOR DUCT TO FRONT COMMUNICATIONS CLOSET FOR COMMUNICATIONS CABLING. SEE NOTE 7.

(10) 2" CONDUITS TO DECK STUBBED FROM COMM. ROOM TO SALES

PROVIDE (2) 2" CONDUITS FROM UNDERFLOOR DUCT TO FRONT COMMUNICATIONS CLOSET FOR COMMUNICATIONS CABLING. SEE NOTE 7.

(1) 2" CONDUIT UNDERFLOOR

(1) 1" CONDUIT UNDERFLOOR

(1) 1" CONDUIT STUBBED UP INTO WALL

(1) 2" CONDUIT STUBBED UP UNDER COUNTER

20'-0"

6'-0"

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

RX COMMUNICATIONS RACK

(4) 4" SLEEVES IN DECK

(1) 2" CONDUIT UNDERFLOOR

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

19'-2"

7'-6"

CONDUIT STUB UP LOCATION

VOLUME CONTROL MOUNT UNDER COUNTER

(1) 2" CONDUIT WITH BOX + 18" STUBBED UP IN WALL TO ROOF DECK

(3) 1" CONDUITS TO ROOF DECK STUB ONE TO SALES FLOOR

(2) 1" CONDUITS UNDERFLOOR TO COUNTER FOR VOLUME CONTROL (1) 1" CONDUIT UNDERFLOOR FOR FLAG SWITCH TO COUNTER

CEILING MOUNTED

MD

(1) 1" CONDUIT WITH BOX @ +18" TO ABOVE CEILING

EXTEND CONDUIT DOWN EXTERIOR WALL TO BELOW COMM. ROOM CEILING

CEILING MOUNTED

MD

(1) 1" CONDUIT WITH BOX @ +18" TO ABOVE DEMARC

(2) 2" CONDUITS FROM RX RACK RAN TO BOTTOM CHORD OF JOIST TO SALES

(3) 2" CONDUITS DOWN FACE OF WALL @ 2'-4" ABOVE CEILING

(2) 1" CONDUIT FROM RX RACK TO FRONT COMMUNICATIONS CLOSET

SEE 1/T1.2

SEE 2/T1.1

SEE 1/T1.1

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

COMMUNICATIONS & SECURITY

LOCATION: LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

COMMUNICATIONS PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
3/32" = 1'0"	

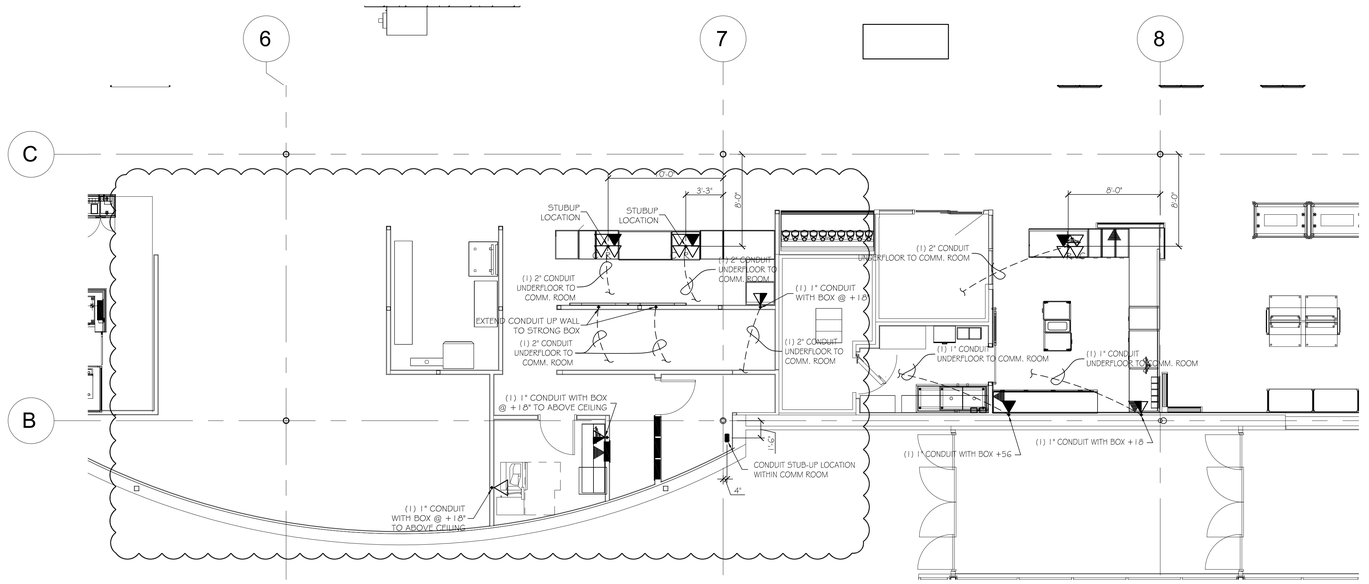
SHEET: T1.0

REVISION	DATE BY
1 ASI #2 – REVISE FLORAL PHONE LOCATIONS, UPDATE CUSTOMER SERVICE LAYOUT	1/8/21 bdp
2 ASI #4 – UDPATE COMM ROOM LOCATION	2/5/21 bdp
3 ASI #7 – RELOCATE ADL ROOM, UPDATE CUSTOMER SERVICE AREA	4/14/21 bdp

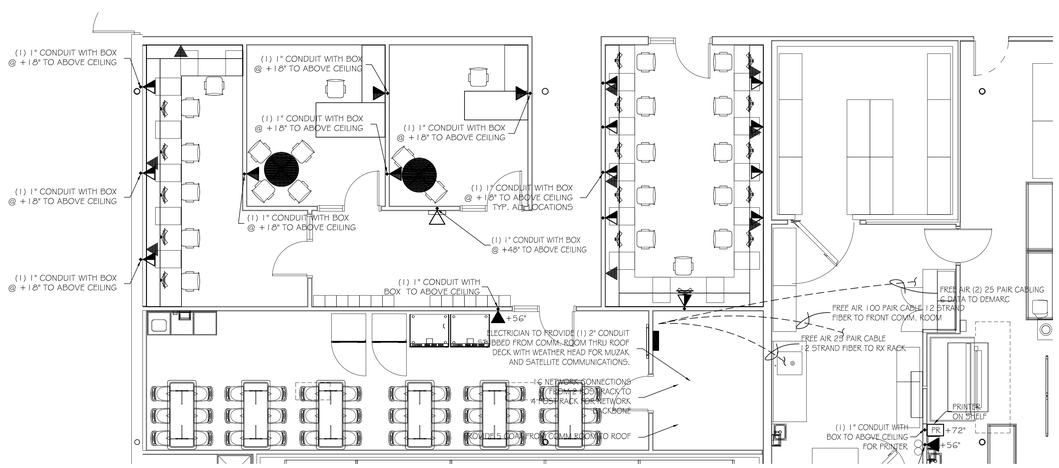
COMMUNICATIONS PLAN SYMBOLS:

- TELEPHONE/DATA OUTLET - CAT6
- TELEPHONE OUTLET - CAT6
- COMPUTER DATA OUTLET - CAT6
- CATALINA DATA OUTLET - CAT6
- RX REGISTER DATA OUTLET - CAT6
- J JUNCTION BOX
- AP WIRELESS AP - CAT6 CABLE TO TELEPHONE CLOSET
- POS POINT OF SALE - (2) DATA REQUIRED
- PR PRINTER - (2) DATA REQUIRED - BOX @+72"
- MD MOTION DECTECTOR

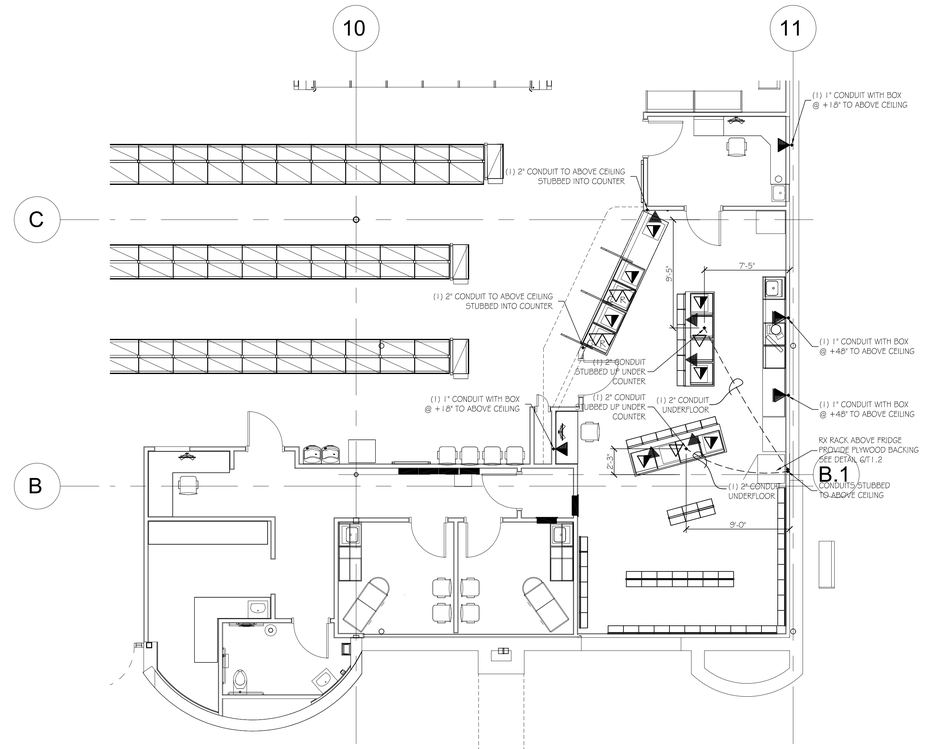
NOTES:
1. ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.
2. PULLSTRING REQUIRED IN ALL UNDERGROUND CONDUIT.
3. ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLING CONTRACTOR WORK BEGINS.



2 ENLARGED COMMUNICATIONS PLAN - CUSTOMER SERVICE/FLORAL
SCALE: 3/16" = 1'-0"



3 ENLARGED COMMUNICATIONS PLAN - OFFICE
SCALE: 3/16" = 1'-0"



1 ENLARGED COMMUNICATIONS PLAN - PHARMACY AND CLINIC
SCALE: 3/16" = 1'-0"

LOCATION: LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

HyVee® EMPLOYEE OWNED

NORTH

ENLARGED COMMUNICATIONS PLANS

DRAWN:	DATE:
BP	OCT 2020
SCALE: SEE SHEET	JOB NUMBER:

SHEET: T1.1

SPEAKER PLAN SYMBOLS:

- (S) SPEAKER - (180)
- (S) SPEAKER - HORN TYPE - WITH VOLUME ADJUSTMENT (44)
- (S) SPEAKER WITH VOLUME CONTROL (68)
- (SD) SOUNDTUBE SPEAKER (8)
- (EV) ELECTRO-VOICE SPEAKER (7)
- (SD) SOUNDTUBE SPEAKER RS-3 I (0)
- (ST) SOUNDTUBE SM400I (0)
- W WALL MOUNT SPEAKER (0)

REVISION	DATE BY
ASI #4 – UDPATE COMM ROOM LOCATION	2/5/21 bdp
ASI #7 – RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

BACKROOM

BAKERY

BACKROOM

MEAT

OFFICE

FOOD SERVICE

WINE & SPIRITS

DINING

RX

UP

TAP AT 17 1/2 WATTS

WINE AND SPIRITS SPEAKER FEED FROM AMP TO VOLUME CONTROL AND FROM VOLUME CONTROL TO FIRST SPEAKER IN ZONE

TO AV COMM CLOSET

TO AV COMM CLOSET

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

COMMUNICATIONS & SECURITY

LOCATION:
LEES 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

SPEAKER PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
3/32" = 1'-0"	

SHEET:
T2.0

ELECTRONIC VIDEO BOARD SCHEDULE			
LOCATION	QUANITY AND SIZE	HEIGHT	MOUNTING
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL
DSW	(1) 49" MONITOR	VARIES	WALL

ELECTRONIC VIDEO BOARD SCHEDULE			
LOCATION	QUANITY AND SIZE	HEIGHT	MOUNTING
SUSHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MARKET GRILLE EXPRESS	(3) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HICKORY HOUSE	(4) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HIBACHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
ASIAN	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MIA PIZZA	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
BAKERY CAKE	(1) 55" MONITOR	B/O MONITOR +4'-10"	WALL - BOX +8'-8"
BAKERY BREAD	(2) 55" MONITORS	B/O MONITOR +6'-8"	WALL - BOX +8'-8"
MEAT	(1) 82" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +8'-8"
SEAFOOD	(1) 65" MONITOR	B/O MONITOR +6'-8"	WALL - BOX +9'-0"
DIETITIAN	(1) 49" MONITOR	B/O MONITOR +4'-3"	WALL - BOX +5'-3"
GREETING CARDS	(1) 49" MONITOR	VARIES	WALL
BASIN	(1) 49" MONITOR	B/O MONITOR +5'-0"	WALL - BOX +7'-6"
CUSTOMER SERVICE	(2) 65" MONITOR	B/O MONITOR +4'-7"	WALL - BOX +6'-4"
APPAREL	(1) 82" MONITOR	B/O MONITOR +6'-2"	WALL - BOX +9'-2"

TELEVISION SCHEDULE			
LOCATION	SIZE	HEIGHT	MOUNTING
TV1	55" MONITOR	B/O MONITOR +7'-3"	WALL MOUNT - BOX +9'-3"
TV2	55" MONITOR	B/O MONITOR +7'-3"	WALL MOUNT - BOX +9'-3"
TV3	55" MONITOR	B/O MONITOR +7'-3"	WALL MOUNT - BOX +9'-3"
TV4	55" MONITOR	B/O MONITOR +7'-3"	WALL MOUNT - BOX +9'-3"
TV5	NOT USED		
TV6	NOT USED		
TV7	NOT USED		
TV8	55" MONITOR	B/O MONITOR +4'-0"	WALL MOUNT - BOX +6'-0"
TV9	32" MONITOR	B/O MONITOR +4'-0"	WALL MOUNT - BOX +5'-1"

AUDIO-VIDEO PLAN SYMBOLS:

- (N) DINING AND GRILLE
  TV - (1) COAX CABLE
  (1) CAT 6
- (M) MOTHERS ROOM AND BREAK ROOM
  TV - (1) COAX
- (T) TRAINING ROOM
  TV - (1) COAX CABLE
  (2) CAT 6
  (1) 18/2 SHIELD
- (V) MENU BOARD
  VIDEO MONITOR - (2) CAT 6
- RTI AV TOUCH PANEL - (1) CAT 6
  MOUNT AT +56" TO CENTER

REVISION	DATE BY
1 ASI #4 - UPDATE BAR TV'S AND SCHEDULE	2/5/21 bdp
2 ASI #7 - RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA, REMOVE SEASONS KIOSK, UPDATE DECORATOR STATION	4/21/21 bdp

(1) 1" CONDUIT WITH BOX TO DECK

(2) CAT 6 PULLED FROM BAKERY MENU BOARD TO COMM. CLOSET

(1) 1" CONDUIT WITH BOX TO ABOVE CEILING

(2) CAT 6 PULLED FROM CHARCUTERIE MONITOR TO COMM. CLOSET

(2) CAT 6 PULLED FROM SEAFOOD PRODUCT BOARD TO COMM. CLOSET

(2) CAT 6 PULLED FROM MEAT MENU BOARD TO COMM. CLOSET

PROVIDE (1) CAT6 FROM BACK COMM CLOSET TO ABOVE CEILING IN DECORATOR AREA WITH 15' SERVICE LOOP

(2) CAT 6 PULLED FROM DECORATOR MENU BOARD TO COMM. CLOSET

(1) 1" CONDUIT WITH BOX @ 7'-10" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX TO ABOVE CEILING

BACK COMMUNICATIONS CLOSET

(2) CAT 6 PULLED FROM GREETING CARDS MONITOR TO COMM. CLOSET

(4) CAT 6 PULLED FROM MIA PIZZA MENU BOARDS TO COMM. CLOSET

(4) CAT 6 PULLED FROM ASIAN MENU BOARDS TO COMM. CLOSET

(4) CAT 6 PULLED FROM HIBACHI MENU BOARDS TO COMM. CLOSET

(8) CAT 6 PULLED FROM HICKORY HOUSE MENU BOARDS TO COMM. CLOSET

(6) CAT 6 PULLED FROM MGE MENU BOARDS TO COMM. CLOSET

(4) CAT 6 PULLED FROM SUSHI MENU BOARDS TO COMM. CLOSET

(1) 1" CONDUIT WITH BOX TO ABOVE CEILING
1 8/2 SHIELD TO TV 1

(2) CAT 6 PULLED FROM APPAREL MONITOR TO COMM. CLOSET

RX COMMUNICATIONS RACK

(24) CAT 6 PULLED FROM DSW DIGITAL WALL TO COMM. CLOSET

(2) CAT 6 PULLED FROM BASIN MONITOR TO COMM. CLOSET

(2) CAT 6 PULLED FROM DIETITIAN MONITOR TO COMM. CLOSET

(2) CAT 6 PULLED FROM CUSTOMER SERVICE MONITORS TO COMM. CLOSET

FRONT COMMUNICATIONS CLOSET

1 AUDIO/VIDEO PLAN
SCALE: 3/32" = 1'-0"

COMMUNICATIONS & SECURITY

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

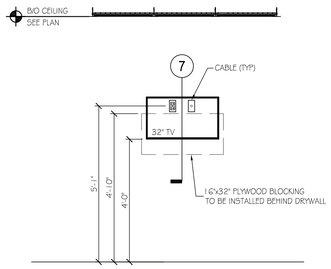
HyVee® EMPLOYEE OWNED

NORTH

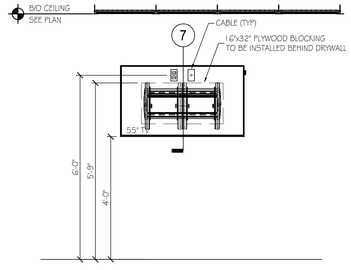
AUDIO/VIDEO PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE: 3/32" = 1'0"	JOB NUMBER:

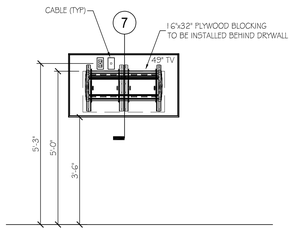
SHEET:
T3.0



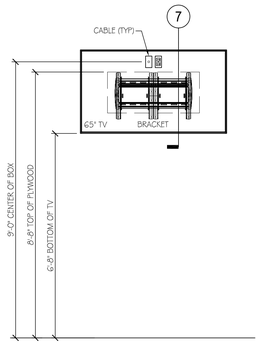
1 MOTHERS ROOM TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



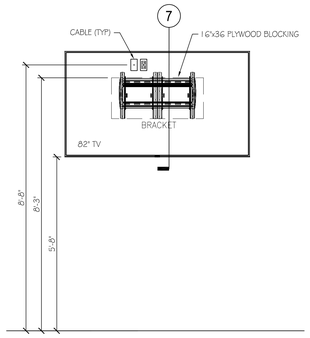
2 BREAKROOM TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



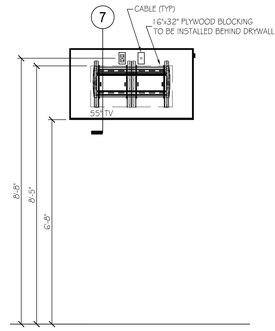
3 DIETITIAN MONITOR ELEVATION
SCALE: 1/2" = 1'-0"



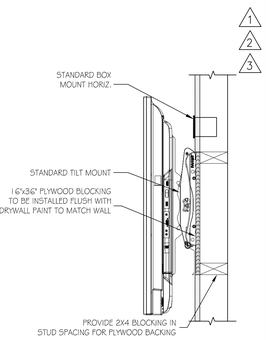
4 SEAFOOD TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



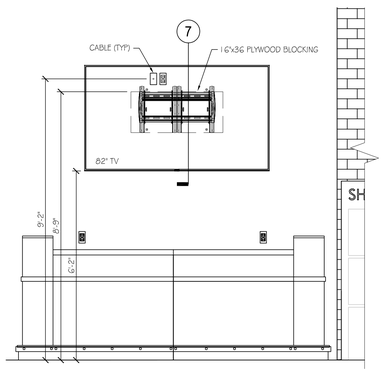
5 MEAT TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



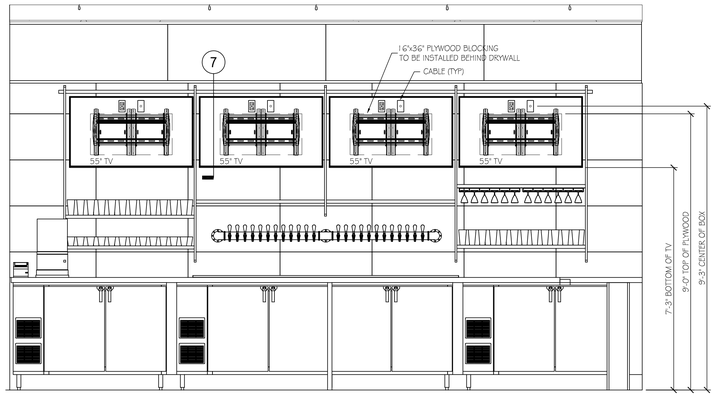
6 TYP. 55" DINING TELEVISION ELEV
SCALE: 1/2" = 1'-0"



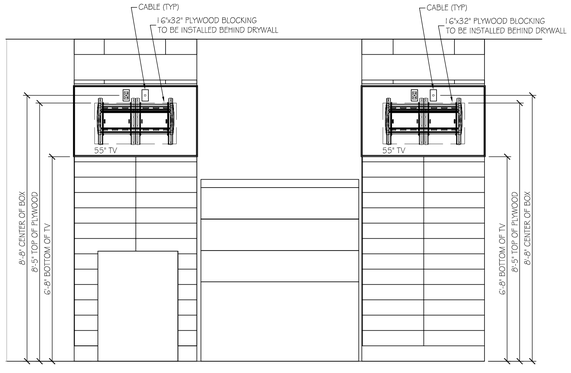
7 TYPICAL TELEVISION SECTION
SCALE: 1 1/2" = 1'-0"



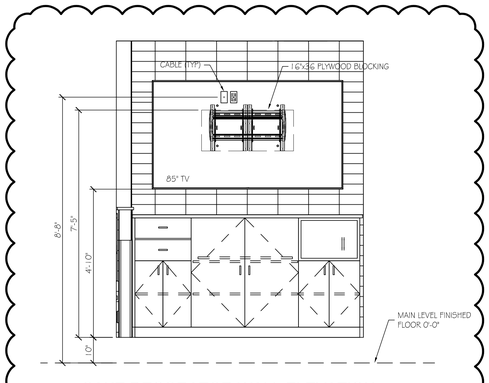
8 APPAREL TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



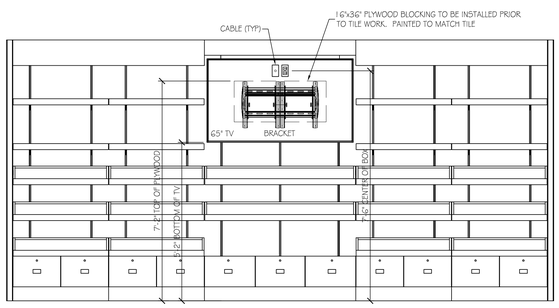
9 BAR WALL ELEVATION
SCALE: 1/2" = 1'-0"



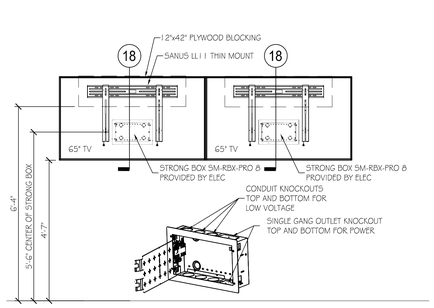
10 BAKERY BREAD WALL ELEVATION
SCALE: 1/2" = 1'-0"



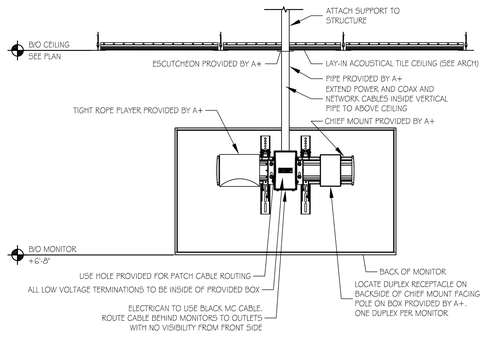
11 CAKE DECORATOR WALL ELEVATION
SCALE: 1/2" = 1'-0"



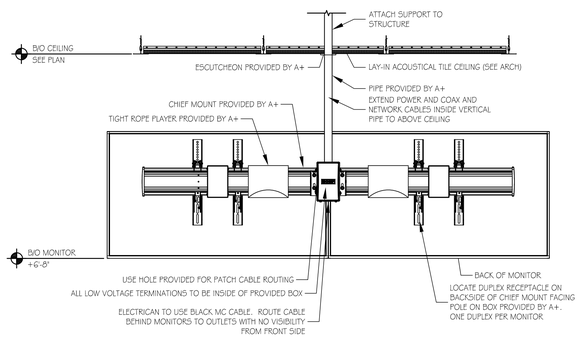
12 BASIN TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



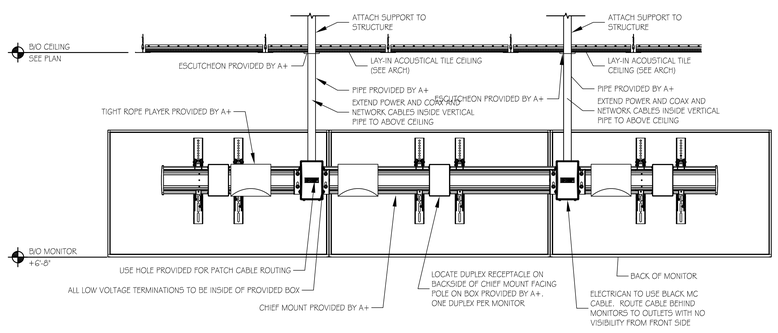
13 CUSTOMER SERVICE TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



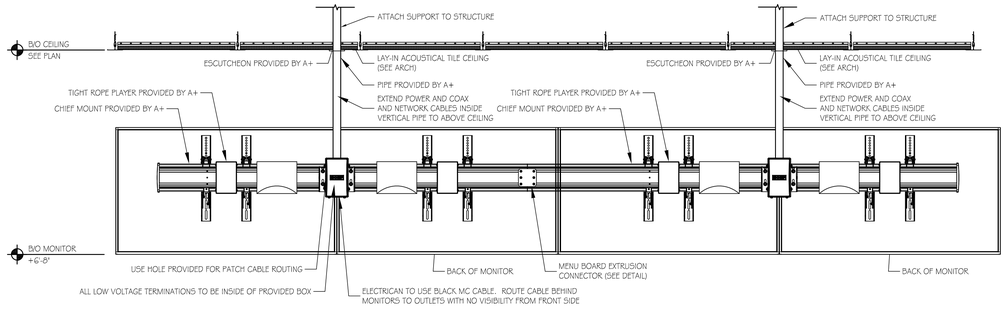
14 49" POLE MOUNTED MENU MONITOR DETAIL (1 MONITOR)
SCALE: 1" = 1'-0"



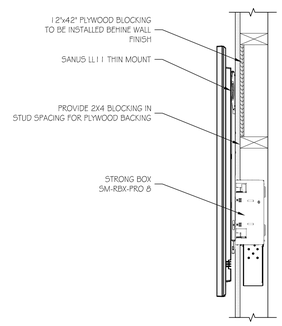
15 49" POLE MOUNTED MENU MONITOR DETAIL (2 MONITORS)
SCALE: 1" = 1'-0"



16 49" POLE MOUNTED MENU MONITOR DETAIL (3 MONITORS)
SCALE: 1" = 1'-0"



17 49" POLE MOUNTED MENU MONITOR DETAIL (4 MONITORS)
SCALE: 1" = 1'-0"



18 CUSTOMER SERVICE SECTION
SCALE: 1 1/2" = 1'-0"

REVISION	DATE BY
ASI #2 – UPDATE ELEVATION 13	1/8/21 bdp
ASI #4 – UPDATE BAR ELEVATION 9	2/5/21 bdp
ASI #7 – UPDATE DECORATOR ELEVATION	4/21/21 bdp

COMMUNICATIONS & SECURITY

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

HyVee® EMPLOYEE OWNED

NORTH

AUDIO/VIDEO
ELEVATIONS
AND DETAILS

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

SHEET:
T3.1

REVISION	DATE BY
ASI #4 - UDPATE COMM ROOM LOCATION	2/5/21 bdp
ASI #7 - RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

3/4 INCH CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR BETWEEN FIRE ALARM NOTIFICATION IN THE RESTROOM AREAS AND STUBBED OUT ABOVE CEILING FOR EASY ACCESS.

FIELD VERIFY LOCATION OF FDC AND MOUNT EXTERIOR NOTIFICATION APPLIANCE 7'-10 FEET ABOVE FDC.

TO FACP

FROM MEZZ.

FROM NAC POWER SUPPLY 1

REFRIGERATION PIPING CHASE

PREFABRICATED REFRIGERATION ROOM

PREFABRICATED REFRIGERATION ROOM

2 MEZZANINE FIRE PLAN
SCALE: 3/32" = 1'-0"

FIRE ALARM NOTIFICATION ADDED IN RELOCATED AISLES ON LINE AREA 4/14/2021

RESET TEST SWITCH LOCATED NEAR THE FACP.

RESET TEST SWITCHES LOCATED NEAR THE FACP.

FRONT OF STORE NOTIFICATION UPDATED 4/14/2021 DUE TO AISLES ON LINE BEING MOVED TO THE BACK OF THE STORE.

RTU ZONE EXPANDERS, FACP CELL COMMUNICATOR, NAC POWER SUPPLIES, 24 VOLT POWER SUPPLY, 4204CF RELAY SMOKE DETECTOR ARE ALL LOCATED IN THE SOUTH COMMUNICATION CLOSET WHERE THE FACP IS LOCATED.

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

Allen L. Ward
Senior Engineering Technician
NICET #132373
Fire Alarm Systems, Level IV

Installation Company:
A+ Communication & Security
5609 NE 22nd Street
Des Moines, Iowa 50313
(515)645-2345

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

FIRE PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE: 3/32" = 1'0"	JOB NUMBER:

SHEET:
T4.0

REVISION	DATE BY
1 ASI #4 – ADD FIRE/SECURITY EQUIPMENT ELEVATION	2/5/21 bdp
2 ASI #7 – RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

SMOKE DETECTOR COORDINATION SCHEDULE

UNIT TAG	AREA SERVED	SUPPLY AIRFLOW (CFM)	AIR SMOKE DETECTION (YES/NO)	REQUIRED DUCT MOUNTED SMOKE DETECTOR LOCATIONS	SMOKE DETECTORS	TRADE RESPONSIBILITY WIRING	TRADE RESPONSIBILITY CONTROLS
RTU-1	SOUTH SALES	17,000		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-2	NORTH SALES	17,000		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-3 (EXISTING)	DINING	3,400		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-4 (EXISTING)	EXIT VESTIBULE	3,500		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-5 (EXISTING)	ENTRY VESTIBULE	3,500		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-6	PHARMACY	1,800		NONE			
RTU-7 (EXISTING)	PHARMACY	2,640		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-8 (EXISTING)	FROZEN	2,400		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-9	KITCHEN	3,200		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-10	OFFICES	1,950		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-11	AOL/CUSTOMER SERVICE	3,200		RETURN	MC	SEE SCOPE OF WORK.	OV
RTU-12	WINE & SPIRITS	3,200		RETURN	MC	SEE SCOPE OF WORK.	OV

CODE REQUIREMENTS:

1. NFPA 90.6.42 -SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEM SHALL BE LOCATED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.
2. 2015 IMC.606.2.1 - SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000 CFM, IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, OR OTHER AIR CONNECTIONS.
3. NFPA 90 AND IMC EXCEPTION - SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM.
4. NFPA 90 AND IMC CONTROLS - WHERE AN APPROVED FIRE ALARM SYSTEM IS INSTALLED IN BUILDING, THE SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM.
5. NFPA 90 AND IMC CONTROLS - UPON ACTIVATION, THE SMOKE DETECTORS SHALL SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE AIR DISTRIBUTION SYSTEM AND SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A CONSTANT ATTENDED OR APPROVED LOCATION.

TRADE RESPONSIBILITY LEGEND:

EC = ELECTRICAL CONTRACTOR

OV = OWNERS VENDOR

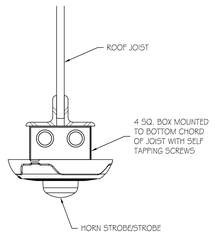
FAC = FACTORY PROVIDED

FC = FIRE ALARM CONTRACTOR

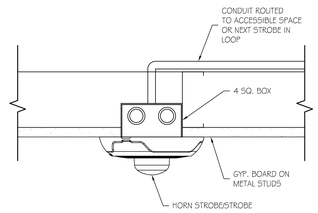
MC = MECHANICAL CONTRACTOR

TRADE RESPONSIBILITY NOTES:

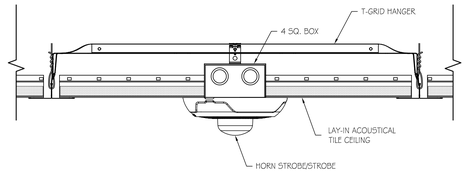
1. THIS LISTING IN NO WAY SUMMARIZES THE SCOPE OF WORK REQUIRED TO BE PERFORMED BY THE CONTRACTORS.
2. FOR OWNER VENDOR FURNISHED ITEMS THE INSTALLING CONTRACTOR MAY ALSO BE REQUIRED TO RECEIVE, INVENTORY, PROTECT, STORE AND ASSEMBLE THE EQUIPMENT.
3. SEE THE SPECIFICATIONS, DRAWINGS AND MANUFACTURERS INSTALLATION RECOMMENDATION FOR COMPLETE DETAILED INSTALLATION REQUIREMENTS.
4. PROVIDE MEANS TO FURNISH AND INSTALL.
5. LOW VOLTAGE CABLE MATERIAL IS PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY EC.



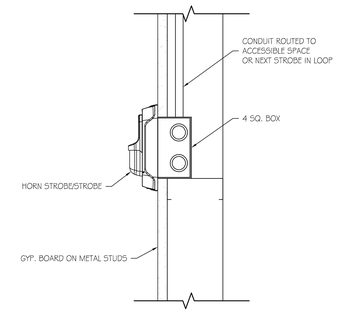
1 STROBE INSTALLATION - TO STRUCTURE
SCALE: 3" = 1'-0"



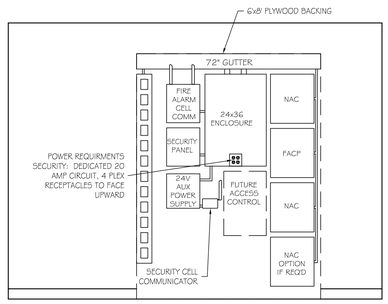
2 STROBE INSTALLATION - GYP. BD MOUNT
SCALE: 3" = 1'-0"



3 STROBE INSTALLATION - ACOUSTICAL CEILING MOUNT
SCALE: 3" = 1'-0"



4 STROBE INSTALLATION - GYP. BD WALL MOUNT
SCALE: 3" = 1'-0"



5 FIRE/SECURITY PANEL ELEVATION
SCALE: 1/2" = 1'-0"

SYSTEM OUTLINE

CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, THE INTERNATIONAL FIRE CODE CODE, AND LOCAL AND STATE REQUIREMENTS. THE SYSTEM SHOWN INCLUDES A FIRE ALARM PANEL, REMOTE ANNUNCIATOR AND OTHER PROVISIONS FOR CONNECTION TO A NOTIFICATION SERVICE FROM THE ALARM SYSTEM. THE SYSTEM SHALL HAVE THE BUILDING DEVICES UNIQUELY ADDRESSABLE. THE REFERENCING OF ZONES OR GROUPS ARE PRIMARILY FOR THE OWNER AND DESIGNERS BENEFIT TO ASSURE COMMUNICATION WITH THE CONTRACTOR AND AUTHORITIES HAVING JURISDICTION (AHJ) SHOULD DESIGN OR OPERATIONAL QUESTIONS ARISE. THE OWNER REQUIRES THE EQUIPMENT BE FROM A SINGLE MANUFACTURER THAT HAS LOCAL (WITHIN 50 MILE RADIUS) TECHNICAL SUPPORT AND STOCKED REPLACEMENT PARTS. MANUFACTURERS ALLOWED INCLUDE: FIRELITE 9200 ULDS, OR AS APPROVED BY OWNER. A WARRANTY OF ONE (1) YEAR PARTS AND LABOR STARTING FROM THE DATE OF THE STORE OPENING OR AS AGREED UPON WITH THE OWNER IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL ALSO PROVIDE TWO TRAINING PERIODS IN HOW TO RUN THE CONTROL PANEL; ONE FOR A DAY SHIFT AND ONE FOR A NIGHT SHIFT.

DESIGN CONSTRAINTS

THE SYSTEM SHALL HAVE THE FOLLOWING DESIGN CONSTRAINTS, FUNCTIONS, ACCESSORIES AND/OR REQUIREMENTS AS FOLLOWS:

1. THE DESIGNERS SCHEMATIC REFERS TO ZONES AND/OR GROUPS TO USE IN COMMUNICATION AND FOR DRILLED DOWN TO ADDRESSABLE UNITS IN THE DESIGN AS FOLLOWS:
   LIFE SAFETY PULL STATIONS AND SMOKE DETECTORS
   FIRE SPRINKLER TAMPERS AND FLOW SWITCHES
   DUCT SMOKE DETECTORS FOR THE HVAC SYSTEM AND UNITS
   FIRE HOOD PROTECTION SYSTEMS (BAKERY, CHINESE, KITCHEN)
2. FIRE ALARM 'CONTROL CENTER' SHALL BE LOCATED IN THE CORRIDOR OF THE OFFICE AREA. THE REMOTE ANNUNCIATOR SHOULD BE LOCATED IN THE FRONT VESTIBULE IN AN AREA COORDINATED WITH THE AUTHORITY HAVING JURISDICTION FOR ITS FINAL PLACEMENT. A REMOTE ANNUNCIATOR SHALL BE LOCATED IN THE CORRIDOR OF THE OFFICE AREA.
3. THE 'CONTROL CENTER' EITHER NEEDS TO PROVIDE FOR ELECTRIC TERMINATION AND RESTART FOR RESET OF DUCT SMOKE DETECTORS OR DESIGN MUST ACCOMMODATE DUCT SMOKE RESETS IMMEDIATELY ADJACENT TO THE 'CONTROL CENTER' PANEL.
4. THIS FIRE ALARM COMMUNICATIONS PLAN INDICATES DESIGN INTENT BUT NOT NECESSARILY EXACT LAYOUT. THE DESIGN IS THE CONTRACTORS RESPONSIBILITY TO BE COORDINATED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. A DESIGN SYSTEM MUST ACCOMMODATE A MINIMUM OF 15% EXPANSION POTENTIAL FOR THE SYSTEM INITIALLY INSTALLED. EXAMPLE: IF THERE ARE 85 UNIQUE, ADDRESSABLE STATIONS, THE BASE SYSTEM SHOULD ACCOMMODATE 100 ADDRESSES FOR ADDITIONAL WIRING TO EXISTING CONNECTOR POINTS AND FAIRLY SIMPLE REPROGRAMMING OF THOSE ADDITIONAL STATIONS.
7. COORDINATE ALL SALES FLOOR FIRE ALARM HORNS/STROBES WITH DECOR PLAN AS TO NOT INTERFERE WITH ANY SIGNAGE.

SUPERVISORY DESIGN CONSTRAINTS

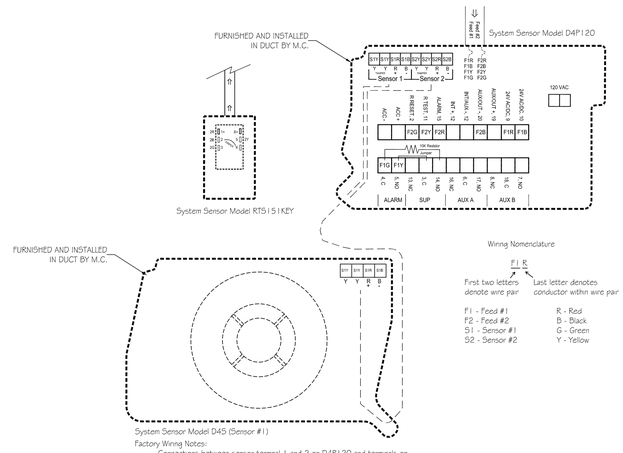
FIRE ALARM CONTRACTOR WILL PROVIDE ALL PROGRAMMING, TESTING, AND COMMISSIONING TO SATISFY THE LOCAL AUTHORITY HAVING JURISDICTION OR HY-VEE REQUIREMENTS AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. FOR ALL HVAC UNITS AND THEIR ASSOCIATED SMOKE DETECTORS, THE FIRE ALARM CONTRACTOR SHALL TEST FOR CONTROL PANEL IDENTIFICATION, ALARM, AND TROUBLE SIGNALS, AND UNIT SHUT DOWN. IF THE HVAC UNIT DOES NOT SHUT DOWN, FIRE ALARM CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR AND HVAC/SHEET METAL CONTRACTOR TO REMEDY AND RESOLVE THE UNIT SHUT DOWN REQUIREMENT. THE FIRE ALARM SYSTEM NEEDS TO RESET THE HVAC UNITS AT THE RESET LOCATION NOTED ON THE DRAWINGS. FIRE ALARM CONTRACTOR SHALL VERIFY THAT THE REMOTE RESET UNIT TEST MODE FUNCTION OPERATES CORRECTLY PRIOR TO ANY AHJ INSPECTION. A COPY OF THE FIRE MARSHAL OR FIRE INSPECTORS SIGN OFF OF THE FIRE SYSTEM MUST BE INCLUDED IN THE GENERAL CONTRACTORS WARRANTY MANUAL.

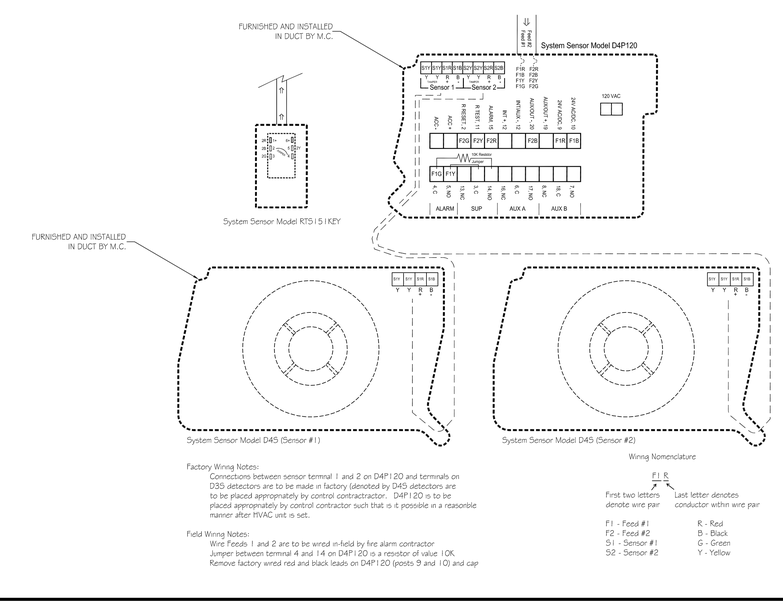
IMPLEMENTATION

1. CONTRACTOR SHALL COORDINATE SPECIFIC IMPLEMENTATION DESIGN MODIFICATIONS FOR DEVICE PLACEMENT WITH RESPECT TO ARCHITECTURAL ELEVATIONS. ANY MODIFIED PLACEMENT MUST BE DISCUSSED WITH THE OWNER PRIOR TO ANY INSTALLATION ACTIVITY TO ASSURE PLACEMENT LOCATION DOES NOT IMPEDE THE OWNERS USE OF THAT AREA.
2. VERIFY WITH THE AUTHORITY HAVING JURISDICTION BEFORE PERFORMING ANY OF THE FOLLOWING FIRE ALARM WORK IDENTIFY OWNER'S DESIRED "CONTROL CENTER" LOCATION IN OFFICE AREA
   COORDINATE REMOTE ANNUNCIATOR PANEL LOCATION AT AHJ'S DIRECTION (TO BE CREDITED BACK TO THE OWNER IF NOT REQUIRED.)
   ACKNOWLEDGEMENT OF ADDRESSABLE SYSTEM HIERARCHY WITH RESPECT TO THE OWNERS ZONES/GROUPINGS SO ADDRESSABLE PROGRAMMING CAN BE AGREED UPON THAT FIRE ALARM SYSTEM CAN BE USED FOR NON-LIFE SAFETY TROUBLES LIKE REFRIGERATION OR DOOR ALARMS SUPERVISORY ALERTS PROVIDED THE SYSTEM IS PROGRAMMED SO NO AUTHORITIES ARE NOTIFIED FOR NON-LIFE SAFETY TROUBLES.

HVAC SCOPE OF WORK

1. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. SEE SCHEDULE ON DRAWING.
2. DUCT SMOKE DETECTORS THAT MUST BE FIELD MOUNTED ON CUSTOM ROOFTOP UNITS (USUALLY RTU-1 AND 2), WILL BE SUPPLIED AND INSTALLED BY THE SHEET METAL CONTRACTOR. SHEET METAL CONTRACTOR IS TO USE SYSTEM SENSOR NUMBER D4120.
3. SYSTEM SENSOR MODEL NUMBER D4120 IS COMPRISED OF TWO COMPONENTS. 1) SYSTEM SENSOR MODEL NUMBER DP4120 IS A CONTROL MODULE. 2) SYSTEM SENSOR MODEL NUMBER D45 IS THE SMOKE DETECTOR.
4. SHEET METAL CONTRACTOR OR ANY PARTY PERFORMING WORK FOR SHEET METAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT PLACEMENT.
5. RTU SMOKE DETECTION SHALL FALL INTO ONE OF THE TWO FOLLOWING SCENARIOS:
   A) RTU'S WHICH REQUIRE BOTH SUPPLY AND RETURN SMOKE DETECTORS (>2000 CFM) SHALL RECEIVE TWO DUCT SMOKE DETECTORS (D45) WHICH ARE APPROPRIATELY WIRED TO A CENTRAL, SEPARATE CONTROL MODULE (DP4120). THE CONTROL MODULE (DP4120) SHALL BE PLACED IN A LOCATION SUCH THAT FIRE ALARM CONTRACTOR CAN ACCESS CONTROL MODULE IN A REASONABLE MANNER.
   B) RTU'S WHICH REQUIRE ONLY RETURN SIDE SMOKE DETECTION (<2000 CFM) SHALL RECEIVE ONE SMOKE DETECTOR/CONTROL MODULE COMBO (D4120). IF DETECTOR PLACEMENT REQUIRES SEPARATION OF THE COMBINATION (D4120) INTO ITS TWO COMPONENTS, DP4120 (CONTROL MODULE) AND D45 (SMOKE DETECTOR), IN ORDER TO HAVE THE CONTROL MODULE BE ACCESSIBLE FOLLOWING INSTALLATION, THEN THIS SHALL BE DONE.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER WIRING OF THE DUCT DETECTOR CONTROL MODULES. THIS INCLUDES ANY WIRING BETWEEN THE FIRE ALARM CONTROL PANEL AND THE DUCT DETECTOR CONTROL MODULE AND ANY WIRING BETWEEN THE DUCT DETECTOR TEST/RESET SWITCH AND THE DUCT DETECTOR CONTROL MODULE.
7. CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WIRING BETWEEN DUCT DETECTOR CONTROL MODULES AND DUCT SMOKE DETECTORS.
8. FIRE ALARM CONTRACTOR SHALL FURNISH, INSTALL, AND WIRE ALL REMOTE RESET STATIONS.
9. CONTROL CONTRACTOR IS REQUIRED TO ASSURE THE HVAC UNIT WILL SHUT DOWN IN THE EVENT OF A SMOKE DETECTOR TRIP.





Allen L. Ward
Senior Engineering Technician
NICET #132373
Fire Alarm Systems, Level IV

Installation Company:
A+ Communication & Security
5609 NE 22nd Street
Des Moines, Iowa 50313
(515)645-2345

LOCATION: LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

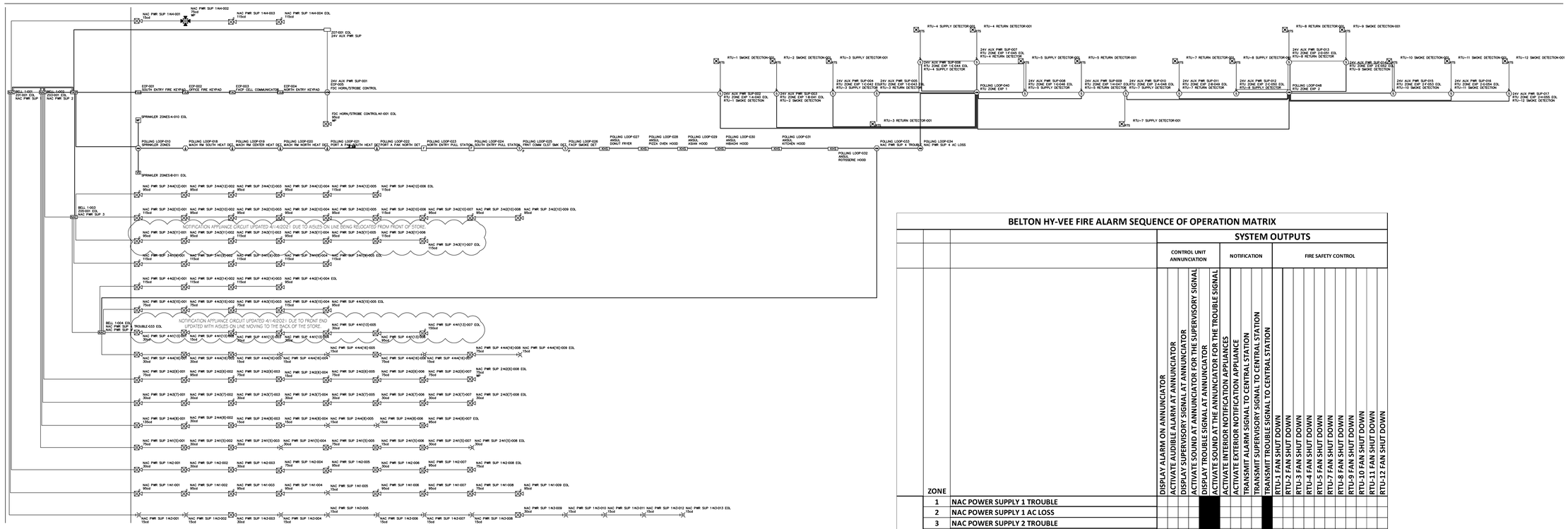
NORTH

FIRE PLAN SCHEDULES NOTES AND DETAILS

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

SHEET: T4.1

REVISION	DATE BY
1 ASI #7 -- RELOCATE ADJ. ROOM, UPDATE CUSTOMER SERVICE AREA	4/14/21 bdp



DEVICE LEGEND				
DEVICE SYMBOL	QTY.	MANUFACTURER	PART NO.	DESCRIPTION
FACP	1	HONEYWELL	VSTA-128FBPT	BURGLAR/FIRE CONTROL PANEL
FACI	1	HONEYWELL	LTE-CFV	SINGLE OR DUAL PATH COMMERCIAL FIRE COMMUNICATOR
	1	ALTRONIX	AL-300-ULMR	2.5-AMP, 24-VOLT POWER SUPPLY
S_P	2	HONEYWELL	5193SD	ONE PIECE PHOTOELECTRIC SMOKE DETECTOR
M	3	HONEYWELL	420BU	8 ZONE RPM
M	2	HONEYWELL	4193SN	MICRO-MINIATURE V-PLEX ADAPTER
M	1	HONEYWELL	4204CF	RELAY BOARD
WP	1	SYSTEM SENSOR	PC2WK	2-WIRE HORN/STROBE CEILING/OUTDOOR WHITE
RTS	16	SYSTEM SENSOR	RTS151KEY	REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEDS, KEY RESET
NAC	4	HONEYWELL	HPFF8	NAC POWER SUPPLY
FAA	3	HONEYWELL	6160CR-2	32-CHARACTER LCD ANNUNCIATOR
	5	SYSTEM SENSOR	5601P/4193	135 °F (57° C) FIXED AND RATE-OF-RISE WITH 4193 MODULE.
F	2	FIRELITE	BG-12/4193 SIM	MANUAL PULL STATION
	16	SYSTEM SENSOR	D4120	4-WIRE PHOTOELECTRIC DUCT SMOKE DETECTOR
ANSUL	6	PROVIDED BY OTHERS	HOOD SYSTEM MONITOR/4193 SIM	CONTACT DEVICE
VS	1	PROVIDED BY OTHERS	VALVE SUPERVISORY SWITCH	CONTACT DEVICE
	20	SYSTEM SENSOR	SWL	STROBE, WHITE
	69	SYSTEM SENSOR	PC2WL	2-WIRE, HORN STROBE, WHITE
	26	SYSTEM SENSOR	P2WL	2-WIRE, HORN STROBE, WHITE
WP	1	SYSTEM SENSOR	P2WK	NOTIFICATION, HORNSTROBE, WALL, WHITE, WEATHERPROOF
RD	1	SYSTEM SENSOR	P2RK	2-WIRE HORN/STROBE OUTDOOR, RED
WF	1	PROVIDED BY OTHERS	WATERFLOW SWITCH	CONTACT DEVICE

NOTIFICATION APPLIANCE COUNTS UPDATED 4/14/21 DUE TO THE AISLE ON LINE AREA BEING MOVED TO THE BACK OF THE STORE AND THE FRONT END BEING UPDATED.

BELTON HY-VEE FIRE ALARM SEQUENCE OF OPERATION MATRIX

SYSTEM OUTPUTS

	ZONE		DISPLAY ALARM ON ANNUNCIATOR	ACTIVATE AUDIBLE ALARM AT ANNUNCIATOR	DISPLAY SUPERVISORY SIGNAL AT ANNUNCIATOR	ACTIVATE SOUND AT ANNUNCIATOR FOR THE SUPERVISORY SIGNAL	DISPLAY TROUBLE SIGNAL AT ANNUNCIATOR	ACTIVATE SOUND AT THE ANNUNCIATOR FOR THE TROUBLE SIGNAL	ACTIVATE INTERIOR NOTIFICATION APPLIANCES	ACTIVATE EXTERIOR NOTIFICATION APPLIANCES	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RTU-1 FAN SHUT DOWN	RTU-2 FAN SHUT DOWN	RTU-3 FAN SHUT DOWN	RTU-4 FAN SHUT DOWN	RTU-5 FAN SHUT DOWN	RTU-7 FAN SHUT DOWN	RTU-8 FAN SHUT DOWN	RTU-9 FAN SHUT DOWN	RTU-10 FAN SHUT DOWN	RTU-11 FAN SHUT DOWN	RTU-12 FAN SHUT DOWN
SYSTEM INPUTS	1	NAC POWER SUPPLY 1 TROUBLE					■						■										
	2	NAC POWER SUPPLY 1 AC LOSS					■						■										
	3	NAC POWER SUPPLY 2 TROUBLE					■						■										
	4	NAC POWER SUPPLY 2 AC LOSS					■						■										
	5	NAC POWER SUPPLY 3 TROUBLE					■						■										
	6	NAC POWER SUPPLY 3 AC LOSS					■						■										
	7	24 VOLT POWER SUPPLY TROUBLE					■						■										
	8	24 VOLT POWER SUPPLY TROUBLE					■						■										
	10	WATER FLOW	■				■		■				■										
	11	SPRINKLER TAMPER	■	■			■						■										
	18	MACH ROOM SOUTH HEAT DETECTOR	■				■		■				■										
	19	MACH ROOM CENTER HEAT DETECTOR	■				■		■				■										
	20	MACH ROOM NORTH HEAT DETECTOR	■				■		■				■										
	21	PORT A PAK SOUTH HEAT DETECTOR	■				■		■				■										
	22	PORT A PAK NORTH HEAT DETECTOR	■				■		■				■										
	23	NORTH ENTRY PULL STATION	■				■		■				■										
	24	SOUTH ENTRY PULL STATION	■				■		■				■										
	25	FRONT COMMUNICATION CLOSET SMOKE DETECTOR	■				■		■				■										
	26	FACP SMOKE DETECTOR	■				■		■				■										
	27	DONUT FRYER ANSUL	■				■		■				■										
	28	PIZZA OVEN HOOD ANSUL	■				■		■				■										
	29	ASIAN HOOD ANSUL	■				■		■				■										
	30	HIBACHI HOOD ANSUL	■				■		■				■										
	31	KITCHEN HOOD ANSUL	■				■		■				■										
	32	ROTISSERIE HOOD ANSUL	■				■		■				■										
	33	NAC POWER SUPPLY 4 TROUBLE					■						■										
	34	NAC POWER SUPPLY 4 AC LOSS					■						■										
	40	RTU-1 SMOKE DETECTION					■		■				■										
	41	RTU-2 SMOKE DETECTION					■		■				■										
	42	RTU-3 SUPPLY DETECTOR					■		■				■										
	43	RTU-3 RETURN DETECTION					■		■				■										
	44	RTU-4 SUPPLY DETECTOR					■		■				■										
	45	RTU-4 RETURN DETECTION					■		■				■										
	46	RTU-5 SUPPLY DETECTOR					■		■				■										
	47	RTU-5 RETURN DETECTION					■		■				■										
	48	RTU-7 SUPPLY DETECTOR					■		■				■										
	49	RTU-7 RETURN DETECTION					■		■				■										
	50	RTU-8 SUPPLY DETECTOR					■		■				■										
	51	RTU-8 RETURN DETECTION					■		■				■										
	52	RTU-9 SMOKE DETECTION					■		■				■										
	53	RTU-10 SMOKE DETECTION					■		■				■										
	54	RTU-11 SMOKE DETECTION					■		■				■										
	55	RTU-12 SMOKE DETECTION					■		■				■										

Allen L. Ward
Senior Engineering Technician
NICET #132373
Fire Alarm Systems, Level IV

Installation Company:
A+ Communication & Security
5609 NE 22nd Street
Des Moines, Iowa 50313
(515)645-2345

1 FIRE ALARM RISER DIAGRAM
SCALE: NTS

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

FIRE ALARM RISER DIAGRAM

DRAWN:	DATE:
ALW	OCT 2020
SCALE:	JOB NUMBER:
NTS	

SHEET:
T4.2

BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	VISTA-128FBPT Main Board	Burglar/Fire Control Panel Main Board	1 x 0.30	= 0.30	1 x 0.47	= 0.47
BELL 1	NAC	4	HPFF8	Nac Power Supply	4 x 0.00	= 0.00	4 x 0.01226	= 0.04904
ECP		1	4204CF	Relay Board	1 x 0.025	= 0.025	1 x 0.105	= 0.105
ECP	FAA	3	6160CR-2	32-Character LCD Annunciator	3 x 0.045	= 0.135	3 x 0.16	= 0.48
ECP	FAC	1	LTE-CFV	Single or Dual Path Commercial Fire Communicator	1 x 0.09	= 0.09	1 x 0.105	= 0.105
POLLING LOOP		2	4193SN	Micro-Miniature V-Plex Adapter	2 x 0.0015	= 0.003	2 x 0.0015	= 0.003
POLLING LOOP		3	4208U	8 Zone RPM	3 x 0.033	= 0.099	3 x 0.033	= 0.099
POLLING LOOP	S P	2	5193SD	One Piece Photoelectric Smoke Detector	2 x 0.0012	= 0.0024	2 x 0.0028	= 0.0056
POLLING LOOP		5	5601P/4193	135 °F (57° C) fixed and rate-of-rise with 4193 module.	5 x 0.0015	= 0.0075	5 x 0.0015	= 0.0075
POLLING LOOP	F	2	BG-12/4193 SIM	Manual Pull Station	2 x 0.0015	= 0.003	2 x 0.0015	= 0.003
POLLING LOOP	ANSUL	6	Hood System Monitor/4193 SIM	CONTACT DEVICE	6 x 0.0015	= 0.009	6 x 0.0015	= 0.009
					TOTAL STANDBY (A)	0.6739	TOTAL ALARM (A)	1.80614

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.6739	x 24.00	= 16.1736 AH
SECONDARY ALARM LOAD	1.80614	x 0.0833	= 0.1504 AH
STANDBY AND ALARM LOAD SUBTOTAL		16.3241 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		19.589 AH	

PROVIDE (2) 12V 12AH BATTERIES @ 12VDC 24AH

PANEL 24V AUX PWR SUP (AL-300-ULMR) BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

PANEL POWER SUPPLY MAX CURRENT = 2.50A — TOTAL USED CAPACITY = 0.519A (20.76 %)

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	AL-300-ULMR		1 x 0.00	= 0.00	1 x 0.00	= 0.00
24V AUX PWR SUP		1	4204CF	Relay Board	1 x 0.002	= 0.002	1 x 0.181	= 0.181
24V AUX PWR SUP		16	D4120	4-Wire Photoelectric Duct Smoke Detector	16 x 0.021	= 0.336	16 x 0.00	= 0.00
					TOTAL STANDBY (A)	0.338	TOTAL ALARM (A)	0.181

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.338	x 24.00	= 8.112 AH
SECONDARY ALARM LOAD	0.181	x 0.0833	= 0.0151 AH
STANDBY AND ALARM LOAD SUBTOTAL		8.1271 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		9.7525 AH	

PROVIDE (2) 12V 12AH BATTERIES @ 24VDC

PANEL NAC PWR SUP 1 (HPFF8) BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00
NAC PWR SUP 1-N1		1	PC2WL	2-Wire, Horn Strobe, White 75cd	1 x 0.00	= 0.00	1 x 0.143	= 0.143
NAC PWR SUP 1-N1		7	PC2WL	2-Wire, Horn Strobe, White 95cd	7 x 0.00	= 0.00	7 x 0.165	= 1.155
NAC PWR SUP 1-N1		1	SWL	Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.043	= 0.043
NAC PWR SUP 1-N2		4	P2WL	2-Wire, Horn Strobe, White 30cd	4 x 0.00	= 0.00	4 x 0.074	= 0.296
NAC PWR SUP 1-N2		1	P2WL	2-Wire, Horn Strobe, White 75cd	1 x 0.00	= 0.00	1 x 0.121	= 0.121
NAC PWR SUP 1-N2		1	PC2WL	2-Wire, Horn Strobe, White 75cd	1 x 0.00	= 0.00	1 x 0.143	= 0.143
NAC PWR SUP 1-N2		2	PC2WL	2-Wire, Horn Strobe, White 95cd	2 x 0.00	= 0.00	2 x 0.165	= 0.33
NAC PWR SUP 1-N3		2	P2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.074	= 0.148
NAC PWR SUP 1-N3		11	SWL	Strobe, White 15cd	11 x 0.00	= 0.00	11 x 0.043	= 0.473
NAC PWR SUP 1-N4		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
NAC PWR SUP 1-N4	WP	1	PC2WK	2-Wire Horn/Strobe ceiling/outdoor white 75cd	1 x 0.00	= 0.00	1 x 0.176	= 0.176
NAC PWR SUP 1-N4		2	PC2WL	2-Wire, Horn Strobe, White 115cd	2 x 0.00	= 0.00	2 x 0.187	= 0.374
					TOTAL STANDBY (A)	0.00	TOTAL ALARM (A)	3.456

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.00	x 24.00	= 0.00 AH
SECONDARY ALARM LOAD	3.456	x 0.0833	= 0.288 AH
STANDBY AND ALARM LOAD SUBTOTAL		0.288 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		0.3456 AH	

PROVIDE (2) 12V 7AH BATTERIES @ 24VDC

PANEL NAC PWR SUP 2 (HPFF8) BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00
NAC PWR SUP 2-N1		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
NAC PWR SUP 2-N1		3	P2WL	2-Wire, Horn Strobe, White 30cd	3 x 0.00	= 0.00	3 x 0.074	= 0.222
NAC PWR SUP 2-N1		2	P2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.121	= 0.242
NAC PWR SUP 2-N1		2	SWL	Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.063	= 0.126
NAC PWR SUP 2-N2(6)	WP	1	P2WK	NOTIFICATION, HORNSTROBE, WALL, WHITE, WEATHERPROOF 75cd	1 x 0.00	= 0.00	1 x 0.176	= 0.176
NAC PWR SUP 2-N2(6)		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
NAC PWR SUP 2-N2(6)		5	PC2WL	2-Wire, Horn Strobe, White 75cd	5 x 0.00	= 0.00	5 x 0.143	= 0.715
NAC PWR SUP 2-N2(6)		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
NAC PWR SUP 2-N3(7)		8	PC2WL	2-Wire, Horn Strobe, White 30cd	8 x 0.00	= 0.00	8 x 0.09	= 0.72
NAC PWR SUP 2-N4(8)		2	P2WL	2-Wire, Horn Strobe, White 15cd	2 x 0.00	= 0.00	2 x 0.054	= 0.108
NAC PWR SUP 2-N4(8)		1	P2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.142	= 0.142
NAC PWR SUP 2-N4(8)		1	P2WL	2-Wire, Horn Strobe, White 135cd	1 x 0.00	= 0.00	1 x 0.196	= 0.196
NAC PWR SUP 2-N4(8)		1	PC2WL	2-Wire, Horn Strobe, White 30cd	1 x 0.00	= 0.00	1 x 0.09	= 0.09
NAC PWR SUP 2-N4(8)		2	SWL	Strobe, White 15cd	2 x 0.00	= 0.00	2 x 0.043	= 0.086
					TOTAL STANDBY (A)	0.00	TOTAL ALARM (A)	3.096

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.00	x 24.00	= 0.00 AH
SECONDARY ALARM LOAD	3.096	x 0.0833	= 0.258 AH
STANDBY AND ALARM LOAD SUBTOTAL		0.258 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		0.3096 AH	

PROVIDE (2) 12V 7AH BATTERIES @ 24VDC

PANEL NAC PWR SUP 3 (HPFF8) BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00
NAC PWR SUP 3-N1(9)		5	PC2WL	2-Wire, Horn Strobe, White 115cd	5 x 0.00	= 0.00	5 x 0.187	= 0.935
NAC PWR SUP 3-N2(10)		7	PC2WL	2-Wire, Horn Strobe, White 95cd	7 x 0.00	= 0.00	7 x 0.165	= 1.155
NAC PWR SUP 3-N2(10)		2	PC2WL	2-Wire, Horn Strobe, White 115cd	2 x 0.00	= 0.00	2 x 0.187	= 0.374
NAC PWR SUP 3-N3(11)		4	PC2WL	2-Wire, Horn Strobe, White 95cd	4 x 0.00	= 0.00	4 x 0.165	= 0.66
NAC PWR SUP 3-N3(11)		3	PC2WL	2-Wire, Horn Strobe, White 115cd	3 x 0.00	= 0.00	3 x 0.187	= 0.561
NAC PWR SUP 3-N4(12)		4	PC2WL	2-Wire, Horn Strobe, White 95cd	4 x 0.00	= 0.00	4 x 0.165	= 0.66
NAC PWR SUP 3-N4(12)		2	PC2WL	2-Wire, Horn Strobe, White 115cd	2 x 0.00	= 0.00	2 x 0.187	= 0.374
					TOTAL STANDBY (A)	0.00	TOTAL ALARM (A)	4.719

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.00	x 24.00	= 0.00 AH
SECONDARY ALARM LOAD	4.719	x 0.0833	= 0.3933 AH
STANDBY AND ALARM LOAD SUBTOTAL		0.3933 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		0.4719 AH	

PROVIDE (2) 12V 7AH BATTERIES @ 24VDC

NOTIFICATION APPLIANCE POWER SUPPLY 3 & 4 BATTERY CALCULATIONS UPDATED 4/14/2021 DUE TO FRONT END CHANGES AND AISLES ON LINE BEING RELOCATED TO THE BACK OF THE STORE.

PANEL NAC PWR SUP 4 (HPFF8) BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	ALARM TOTAL (A)
PANEL COMPONENTS		1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00
NAC PWR SUP 4-N1(13)		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
NAC PWR SUP 4-N1(13)		1	P2WL	2-Wire, Horn Strobe, White 30cd	1 x 0.00	= 0.00	1 x 0.074	= 0.074
NAC PWR SUP 4-N1(13)		3	PC2WL	2-Wire, Horn Strobe, White 30cd	3 x 0.00	= 0.00	3 x 0.09	= 0.27
NAC PWR SUP 4-N1(13)		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
NAC PWR SUP 4-N1(13)		1	PC2WL	2-Wire, Horn Strobe, White 150cd	1 x 0.00	= 0.00	1 x 0.217	= 0.217
NAC PWR SUP 4-N2(14)		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
NAC PWR SUP 4-N2(14)		3	PC2WL	2-Wire, Horn Strobe, White 115cd	3 x 0.00	= 0.00	3 x 0.187	= 0.561
NAC PWR SUP 4-N3(15)		3	PC2WL	2-Wire, Horn Strobe, White 75cd	3 x 0.00	= 0.00	3 x 0.143	= 0.429
NAC PWR SUP 4-N3(15)		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
NAC PWR SUP 4-N3(15)		1	PC2WL	2-Wire, Horn Strobe, White 115cd	1 x 0.00	= 0.00	1 x 0.187	= 0.187
NAC PWR SUP 4-N4(16)		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
NAC PWR SUP 4-N4(16)		2	P2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.074	= 0.148
NAC PWR SUP 4-N4(16)		2	P2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.121	= 0.242
NAC PWR SUP 4-N4(16)		4	SWL	Strobe, White 15cd	4 x 0.00	= 0.00	4 x 0.043	= 0.172
					TOTAL STANDBY (A)	0.00	TOTAL ALARM (A)	2.903

		REQUIRED STANDBY TIME = 24.00 HOURS	
		REQUIRED ALARM TIME = 5 MINUTES	
SECONDARY STANDBY LOAD	0.00	x 24.00	= 0.00 AH
SECONDARY ALARM LOAD	2.903	x 0.0833	= 0.2419 AH
STANDBY AND ALARM LOAD SUBTOTAL		0.2419 AH	
DERATING FACTOR		x 1.20	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		0.2903 AH	

PROVIDE (2) 12V 7AH BATTERIES @ 24VDC

Panel NAC PWR SUP 1

Total Used Current: (All Circuits) — 3.4560A

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 1 Circuit N1

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 1.3410A — Total Distance: 510.0000'
Voltage Drop: 2.4219v — End Of Line Voltage: 17.9781v
Percent Drop: 11.87 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 1-N1-001	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	100.0000'	19.5766v	0.8234v	4.04 %
NAC PWR SUP 1-N1-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	45.0000'	19.2517v	1.1483v	5.63 %
NAC PWR SUP 1-N1-003	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	35.0000'	19.0344v	1.3656v	6.69 %
NAC PWR SUP 1-N1-004	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	50.0000'	18.7747v	1.6253v	7.97 %
NAC PWR SUP 1-N1-005	SWL	Strobe, White 15cd	0.0430A	65.0000'	18.5029v	1.8971v	9.30 %
NAC PWR SUP 1-N1-006	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	50.0000'	18.3071v	2.0929v	10.26 %
NAC PWR SUP 1-N1-007	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	60.0000'	18.1328v	2.2672v	11.11 %
NAC PWR SUP 1-N1-008	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	55.0000'	18.0288v	2.3712v	11.62 %
NAC PWR SUP 1-N1-009 EOL	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	50.0000'	17.9781v	2.4219v	11.87 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 1 Circuit N2

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.8900A — Total Distance: 718.6599'
Voltage Drop: 3.0950v — End Of Line Voltage: 17.3050v
Percent Drop: 15.17 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 1-N2-001	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	375.0000'	18.3508v	2.0492v	10.05 %
NAC PWR SUP 1-N2-002	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	55.0000'	18.0752v	2.3248v	11.40 %
NAC PWR SUP 1-N2-003	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	5.0000'	18.0524v	2.3476v	11.51 %
NAC PWR SUP 1-N2-004	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	95.0000'	17.6628v	2.7372v	13.42 %
NAC PWR SUP 1-N2-005	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	33.6599'	17.5543v	2.8457v	13.95 %
NAC PWR SUP 1-N2-006	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	50.0000'	17.4438v	2.9562v	14.49 %
NAC PWR SUP 1-N2-007	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	60.0000'	17.3384v	3.0616v	15.01 %
NAC PWR SUP 1-N2-008 EOL	P2WL	2-Wire, Horn Strobe, White 75cd	0.1210A	45.0000'	17.3050v	3.0950v	15.17 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 1 Circuit N3

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.6210A — Total Distance: 191.3819'
Voltage Drop: 0.5357v — End Of Line Voltage: 19.8643v
Percent Drop: 2.63 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 1-N3-001	SWL	Strobe, White 15cd	0.0430A	95.4099'	20.0362v	0.3638v	1.78 %
NAC PWR SUP 1-N3-002	SWL	Strobe, White 15cd	0.0430A	7.6044'	20.0092v	0.3908v	1.92 %
NAC PWR SUP 1-N3-003	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	0.8798'	20.0063v	0.3937v	1.93 %
NAC PWR SUP 1-N3-004	SWL	Strobe, White 15cd	0.0430A	10.3528'	19.9770v	0.4230v	2.07 %
NAC PWR SUP 1-N3-005	SWL	Strobe, White 15cd	0.0430A	7.5890'	19.9575v	0.4425v	2.17 %
NAC PWR SUP 1-N3-006	SWL	Strobe, White 15cd	0.0430A	9.3294'	19.9361v	0.4639v	2.27 %
NAC PWR SUP 1-N3-007	SWL	Strobe, White 15cd	0.0430A	15.5372'	19.9044v	0.4956v	2.43 %
NAC PWR SUP 1-N3-008	SWL	Strobe, White 15cd	0.0430A	9.3140'	19.8879v	0.5121v	2.51 %
NAC PWR SUP 1-N3-009	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	0.8822'	19.8865v	0.5135v	2.52 %
NAC PWR SUP 1-N3-010	SWL	Strobe, White 15cd	0.0430A	7.7616'	19.8783v	0.5217v	2.56 %
NAC PWR SUP 1-N3-011	SWL	Strobe, White 15cd	0.0430A	9.3219'	19.8710v	0.5290v	2.59 %
NAC PWR SUP 1-N3-012	SWL	Strobe, White 15cd	0.0430A	7.7545'	19.8669v	0.5331v	2.61 %
NAC PWR SUP 1-N3-013 EOL	SWL	Strobe, White 15cd	0.0430A	9.6450'	19.8643v	0.5357v	2.63 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 1 Circuit N4

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.6040A — Total Distance: 215.0000'
Voltage Drop: 0.5495v — End Of Line Voltage: 19.8505v
Percent Drop: 2.69 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 1-N4-001	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	50.0000'	20.2146v	0.1854v	0.91 %
NAC PWR SUP 1-N4-002	PC2WK	2-Wire Horn/Strobe ceiling/outdoor white 75cd	0.1760A	50.0000'	20.0457v	0.3543v	1.74 %
NAC PWR SUP 1-N4-003	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	19.9194v	0.4806v	2.36 %
NAC PWR SUP 1-N4-004 EOL	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	60.0000'	19.8505v	0.5495v	2.69 %

Panel NAC PWR SUP 2

Total Used Current: (All Circuits) — 3.0960A

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 2 Circuit N1

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.6440A — Total Distance: 325.0000'
Voltage Drop: 0.5670v — End Of Line Voltage: 19.8330v
Percent Drop: 2.78 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 2-N1-001	P2WL	2-Wire, Horn Strobe, White 75cd	0.1210A	20.0000'	20.3209v	0.0791v	0.39 %
NAC PWR SUP 2-N1-002	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	45.0000'	20.1764v	0.2236v	1.10 %
NAC PWR SUP 2-N1-003	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	35.0000'	20.0799v	0.3201v	1.57 %
NAC PWR SUP 2-N1-004	SWL	Strobe, White 30cd	0.0630A	40.0000'	19.9878v	0.4122v	2.02 %
NAC PWR SUP 2-N1-005	P2WL	2-Wire, Horn Strobe, White 75cd	0.1210A	5.0000'	19.9782v	0.4218v	2.07 %
NAC PWR SUP 2-N1-006	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	50.0000'	19.9196v	0.4804v	2.35 %
NAC PWR SUP 2-N1-007	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	80.0000'	19.8523v	0.5477v	2.68 %
NAC PWR SUP 2-N1-008 EOL	SWL	Strobe, White 30cd	0.0630A	50.0000'	19.8330v	0.5670v	2.78 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 2 Circuit N2(6)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 1.1100A — Total Distance: 535.0000'
Voltage Drop: 2.3951v — End Of Line Voltage: 18.0049v
Percent Drop: 11.74 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 2-N2(6)-001	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	165.0000'	19.2755v	1.1245v	5.51 %
NAC PWR SUP 2-N2(6)-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	45.0000'	19.0083v	1.3917v	6.82 %
NAC PWR SUP 2-N2(6)-003	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	55.0000'	18.7374v	1.6626v	8.15 %
NAC PWR SUP 2-N2(6)-004	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	45.0000'	18.5554v	1.8446v	9.04 %
NAC PWR SUP 2-N2(6)-005	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	60.0000'	18.3325v	2.0675v	10.13 %
NAC PWR SUP 2-N2(6)-006	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	55.0000'	18.1765v	2.2235v	10.90 %
NAC PWR SUP 2-N2(6)-007	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	60.0000'	18.0589v	2.3411v	11.48 %
NAC PWR SUP 2-N2(6)-008 EOL	P2WK	NOTIFICATION, HORNSTROBE, WALL, WHITE, WEATHERPROOF 75cd	0.1760A	50.0000'	18.0049v	2.3951v	11.74 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 2 Circuit N3(7)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.7200A — Total Distance: 435.0000'
Voltage Drop: 1.3870v — End Of Line Voltage: 19.0130v
Percent Drop: 6.80 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 2-N3(7)-001	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	170.0000'	19.6485v	0.7515v	3.68 %
NAC PWR SUP 2-N3(7)-002	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	45.0000'	19.4744v	0.9256v	4.54 %
NAC PWR SUP 2-N3(7)-003	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	45.0000'	19.3252v	1.0748v	5.27 %
NAC PWR SUP 2-N3(7)-004	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	45.0000'	19.2009v	1.1991v	5.88 %
NAC PWR SUP 2-N3(7)-005	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	30.0000'	19.1345v	1.2655v	6.20 %
NAC PWR SUP 2-N3(7)-006	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	45.0000'	19.0599v	1.3401v	6.57 %
NAC PWR SUP 2-N3(7)-007	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	30.0000'	19.0268v	1.3732v	6.73 %
NAC PWR SUP 2-N3(7)-008 EOL	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	25.0000'	19.0130v	1.3870v	6.80 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 2 Circuit N4(8)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.6220A — Total Distance: 565.0000'
Voltage Drop: 1.5415v — End Of Line Voltage: 18.8585v
Percent Drop: 7.56 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 2-N4(8)-001	P2WL	2-Wire, Horn Strobe, White 135cd	0.1960A	280.0000'	19.3307v	1.0693v	5.24 %
NAC PWR SUP 2-N4(8)-002	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	75.0000'	19.1345v	1.2655v	6.20 %
NAC PWR SUP 2-N4(8)-003	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	45.0000'	19.0416v	1.3584v	6.66 %
NAC PWR SUP 2-N4(8)-004	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	35.0000'	18.9810v	1.4190v	6.96 %
NAC PWR SUP 2-N4(8)-005	SWL	Strobe, White 15cd	0.0430A	5.0000'	18.9740v	1.4260v	6.99 %
NAC PWR SUP 2-N4(8)-006	SWL	Strobe, White 15cd	0.0430A	25.0000'	18.9456v	1.4544v	7.13 %
NAC PWR SUP 2-N4(8)-007 EOL	P2WL	2-Wire, Horn Strobe, White 95cd	0.1420A	100.0000'	18.8585v	1.5415v	7.56 %

Panel NAC PWR SUP 3

Total Used Current: (All Circuits) — 4.7190A

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 3 Circuit N1(9)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.9350A — Total Distance: 430.0000'
Voltage Drop: 1.8486v — End Of Line Voltage: 18.5514v
Percent Drop: 9.06 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 3-N1(9)-001	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	220.0000'	19.1370v	1.2630v	6.19 %
NAC PWR SUP 3-N1(9)-002	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	45.0000'	18.9303v	1.4697v	7.20 %
NAC PWR SUP 3-N1(9)-003	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	18.7409v	1.6591v	8.13 %
NAC PWR SUP 3-N1(9)-004	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	18.6146v	1.7854v	8.75 %
NAC PWR SUP 3-N1(9)-005 EOL	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	18.5514v	1.8486v	9.06 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 3 Circuit N2(10)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 1.5290A — Total Distance: 670.0000'
Voltage Drop: 4.2023v — End Of Line Voltage: 16.1977v
Percent Drop: 20.60 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 3-N2(10)-001	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	230.0000'	18.2407v	2.1593v	10.58 %
NAC PWR SUP 3-N2(10)-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.7876v	2.6124v	12.81 %
NAC PWR SUP 3-N2(10)-003	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.3901v	3.0099v	14.75 %
NAC PWR SUP 3-N2(10)-004	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.0483v	3.3517v	16.43 %
NAC PWR SUP 3-N2(10)-005	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	16.7623v	3.6377v	17.83 %
NAC PWR SUP 3-N2(10)-006	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	16.5320v	3.8680v	18.96 %
NAC PWR SUP 3-N2(10)-007	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	16.3648v	4.0352v	19.78 %
NAC PWR SUP 3-N2(10)-008	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	16.2534v	4.1466v	20.33 %
NAC PWR SUP 3-N2(10)-009 EOL	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	16.1977v	4.2023v	20.60 %

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATION UPDATED 4/14/2021 DUE TO AISLES ON LINE BEING MOVED TO BACK OF THE STORE.

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 3 Circuit N3(11)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 1.2210A — Total Distance: 635.0000'
Voltage Drop: 3.7417v — End Of Line Voltage: 16.6583v
Percent Drop: 18.34 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 3-N3(11)-001	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	350.0000'	17.7761v	2.6239v	12.86 %
NAC PWR SUP 3-N3(11)-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.4195v	2.9805v	14.61 %
NAC PWR SUP 3-N3(11)-003	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	50.0000'	17.1459v	3.2541v	15.95 %
NAC PWR SUP 3-N3(11)-004	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	40.0000'	16.9730v	3.4270v	16.80 %
NAC PWR SUP 3-N3(11)-005	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	50.0000'	16.8075v	3.5925v	17.61 %
NAC PWR SUP 3-N3(11)-006	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	40.0000'	16.7157v	3.6843v	18.06 %
NAC PWR SUP 3-N3(11)-007 EOL	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	50.0000'	16.6583v	3.7417v	18.34 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 3 Circuit N4(12)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 1.0340A — Total Distance: 585.0000'
Voltage Drop: 2.8708v — End Of Line Voltage: 17.5292v
Percent Drop: 14.07 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 3-N4(12)-001	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	310.0000'	18.4319v	1.9681v	9.65 %
NAC PWR SUP 3-N4(12)-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	18.1384v	2.2616v	11.09 %
NAC PWR SUP 3-N4(12)-003	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.9007v	2.4993v	12.25 %
NAC PWR SUP 3-N4(12)-004	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	17.7187v	2.6813v	13.14 %
NAC PWR SUP 3-N4(12)-005	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	17.5924v	2.8076v	13.76 %
NAC PWR SUP 3-N4(12)-006 EOL	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	17.5292v	2.8708v	14.07 %

Panel NAC PWR SUP 4

Total Used Current: (All Circuits) — 2.9030A

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 4 Circuit N1(13)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.7800A — Total Distance: 250.0000'
Voltage Drop: 0.7802v — End Of Line Voltage: 19.6198v
Percent Drop: 3.82 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 4-N1(13)-001	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	35.0000'	20.2324v	0.1676v	0.82 %
NAC PWR SUP 4-N1(13)-002	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	35.0000'	20.0807v	0.3193v	1.57 %
NAC PWR SUP 4-N1(13)-003	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	40.0000'	19.9205v	0.4795v	2.35 %
NAC PWR SUP 4-N1(13)-004	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	15.0000'	19.8688v	0.5312v	2.60 %
NAC PWR SUP 4-N1(13)-005	PC2WL	2-Wire, Horn Strobe, White 30cd	0.0900A	30.0000'	19.7818v	0.6182v	3.03 %
NAC PWR SUP 4-N1(13)-006	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	35.0000'	19.6997v	0.7003v	3.43 %
NAC PWR SUP 4-N1(13)-007 EOL	PC2WL	2-Wire, Horn Strobe, White 150cd	0.2170A	60.0000'	19.6198v	0.7802v	3.82 %

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATION UPDATED 4/14/2021 DUE TO FRONT END BEING UPDATED BECAUSE OF THE AISLES ON LINE BEING MOVED TO THE BACK OF THE STORE.

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 4 Circuit N2(14)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.7260A — Total Distance: 320.0000'
Voltage Drop: 1.0475v — End Of Line Voltage: 19.3525v
Percent Drop: 5.14 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 4-N2(14)-001	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	155.0000'	19.7091v	0.6909v	3.39 %
NAC PWR SUP 4-N2(14)-002	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	19.5270v	0.8730v	4.28 %
NAC PWR SUP 4-N2(14)-003	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	19.4082v	0.9918v	4.86 %
NAC PWR SUP 4-N2(14)-004 EOL	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	19.3525v	1.0475v	5.14 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 4 Circuit N3(15)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.7810A — Total Distance: 335.0000'
Voltage Drop: 1.1087v — End Of Line Voltage: 19.2913v
Percent Drop: 5.43 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 4-N3(15)-001	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	115.0000'	19.8485v	0.5515v	2.70 %
NAC PWR SUP 4-N3(15)-002	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	55.0000'	19.6331v	0.7669v	3.76 %
NAC PWR SUP 4-N3(15)-003	PC2WL	2-Wire, Horn Strobe, White 75cd	0.1430A	55.0000'	19.4659v	0.9341v	4.58 %
NAC PWR SUP 4-N3(15)-004	PC2WL	2-Wire, Horn Strobe, White 115cd	0.1870A	55.0000'	19.3471v	1.0529v	5.16 %
NAC PWR SUP 4-N3(15)-005 EOL	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	55.0000'	19.2913v	1.1087v	5.43 %

Point-To-Point Voltage Drop Calculation for Panel NAC PWR SUP 4 Circuit N4(16)

Starting Calculation Voltage: 20.4000v — Minimum Operational Voltage: 16.0000v
Total Circuit Current: 0.6160A — Total Distance: 345.0000'
Voltage Drop: 0.9569v — End Of Line Voltage: 19.4431v
Percent Drop: 4.69 % — Wire GA=#14 AWG
Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Current	Distance From Previous Device	Voltage At Device	Voltage Drop From Source	Voltage Drop Percent
NAC PWR SUP 4-N4(16)-001	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	160.0000'	19.7948v	0.6052v	2.97 %
NAC PWR SUP 4-N4(16)-002	P2WL	2-Wire, Horn Strobe, White 30cd	0.0740A	20.0000'	19.7283v	0.6717v	3.29 %
NAC PWR SUP 4-N4(16)-003	P2WL	2-Wire, Horn Strobe, White 15cd	0.0540A	35.0000'	19.6277v	0.7723v	3.79 %
NAC PWR SUP 4-N4(16)-004	SWL	Strobe, White 15cd	0.0430A	5.0000'	19.6150v	0.7850v	3.85 %
NAC PWR SUP 4-N4(16)-005	SWL	Strobe, White 15cd	0.0430A	30.0000'	19.5467v	0.8533v	4.18 %
NAC PWR SUP 4-N4(16)-006	P2WL	2-Wire, Horn Strobe, White 75cd	0.1210A	5.0000'	19.5366v	0.8634v	4.23 %
NAC PWR SUP 4-N4(16)-007	SWL	Strobe, White 15cd	0.0430A	25.0000'	19.5048v	0.8952v	4.39 %
NAC PWR SUP 4-N4(16)-008	P2WL	2-Wire, Horn Strobe, White 75cd	0.1210A	60.0000'	19.4444v	0.9556v	4.68 %
NAC PWR SUP 4-N4(16)-009 EOL	SWL	Strobe, White 15cd	0.0430A	5.0000'	19.4431v	0.9569v	4.69 %

Allen L. Ward
Senior Engineering Technician
NICET #132373
Fire Alarm Systems, Level IV

Installation Company:
A+ Communication & Security
5609 NE 22nd Street
Des Moines, Iowa 50313
(515)645-2345

1 FIRE ALARM SCHEDULES
SCALE: NTS

REVISION	DATE BY
1 ASI #7 - RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

FIRE ALARM SCHEDULES

DRAWN:	DATE:
ALW	OCT 2020
SCALE: NTS	JOB NUMBER:

SHEET: T4.3

RISER 1

PARTITION 1	PARTITION 2	PARTITION 3	PARTITION 4	PARTITION 5	PARTITION 6	PARTITION 7	PARTITION 8
PHARMACY SECURITY	BUILDING SECURITY	SALES TO EXTERIOR 2 LOCATIONS	RECEIVING TO EXTERIOR	BACKROOM TO EXTERIOR 3 LOCATIONS	AOL TO EXTERIOR	WINE AND SPIRITS VESTIBULE	WINE AND SPIRITS TO EXTERIOR

HONEYWELL VISTA 128BPT BURG ALARM CONTROL PANEL

8 PARTITION SYSTEM

-LOCATED IN COMM CLOSET
-120V 20AMP DEDICATED CIRCUIT
-IGSM COMMUICATOR

-SEE AS BUILTS (COMM CLOSET) FOR EQUIPMENT ENCLOSURE LAYOUT

SECURITY SYSTEM CABLING REQUIRMENTS

CA	ACCESS DOOR TO INCLUDE CARD READER - 18/6 SHIELD CABLE REQUEST TO EXIT MOTION - 22/6 CABLE DOOR CONTACTOR - BLUE BROWN CONDUCTORS ON REX MOTION CABLE ELECTRIC DOOR STRIKE - 18/4 CABLE
DA	SECURITY LOCAL DOOR ALARM 1 DOOR CONTACT - RED BLACK CONDUCTORS ON SIREN CABLE 1 SIREN - 18/4 CABLE 1 KEYPAD - 18/6 CABLE
CR	ACCESS CONTROL CARD READER - 18/6 SHIELD CABLE
REX	ACCESS CONTROL REQUEST TO EXIT MOTION - 22/6 CABLE
MD	MOTION DETECTOR - 22/4 CABLE
SMD	SECURITY MOTION DETECTOR - 22/6 CABLE
ICOM	INTERCOM - CAT 6 CABLE
SE	SECURITY EQUIPMENT ENCLOSURE (11x15x4)
CM	CEILING MOUNTED SECURITY MOTION DETECTOR - 22/4 CABLE
EDH	ELECTRIC DOOR HARDWARE - 18/4 CABLE
DC	DOOR CONTACTOR - 22/4 CABLE
KP	KEYPAD - 22/6 CABLE @ +60" CENTERLINE A.F.F.
GB	GLASS BREAK - 22/4 CABLE
SIR	SECURITY SIREN - 18/2 CABLE

REVISION	DATE BY
ASI #4 – UDPATE COMM ROOM LOCATION ADD CARD ACCESS TO AOL DOOR	2/5/21 bdp
ASI #7 – RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

BACK COMMUNICATIONS CLOSET

FRONT COMMUNICATIONS CLOSET

RX COMMUNICATIONS RACK

CONDUIT STUB TO ROOF DECK

CONDUIT STUB TO ABOVE CEILING

CONDUIT STUB TO ABOVE CEILING, TYP.

CARD READER +42"

SEE ELEVATION #13/T6.1

WAVE TO EXIT SENSOR +42"

SEE 1/T6.1

FIRE/SECURITY PANEL PROVIDE 4'x8' SHEET OF PLYWOOD

MOUNT ENTRY ALERT SOUNDER TO WALL @ +10'-0"

DELAYED EGRESS MAG-LOCK

ENTRY ALERT SHUNT SWITCH

(1) 3/4" CONDUIT UNDER LOCK TO COUNTER

(1) CONDUIT TO B/O JOISTS

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

LOCATION: LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2925

HyVee® EMPLOYEE OWNED

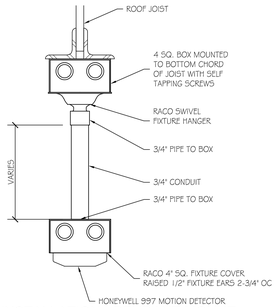
NORTH

SECURITY PLAN

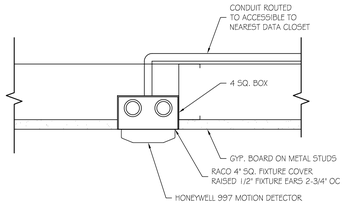
DRAWN:	DATE:
BP	OCT 2020
SCALE: 3/32" = 1'0"	JOB NUMBER:

SHEET: T6.0

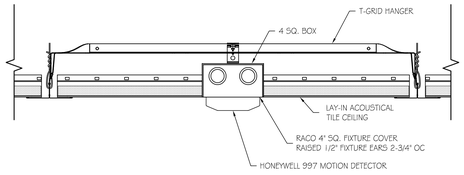
REVISION	DATE BY
1 ASI #4 -- ADD: FIRE/SECURITY EQUIPMENT ELEVATION, ADD CARD ACCESS DOOR ELEV AND SECTION	3/5/21 bdp
2 ASI #7 -- RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	4/14/21 bdp



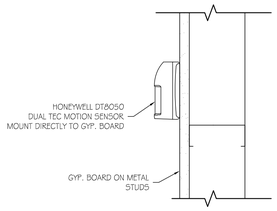
11 MOTION INSTALLATION - PENDANT MOUNT
SCALE: 3" = 1'-0"



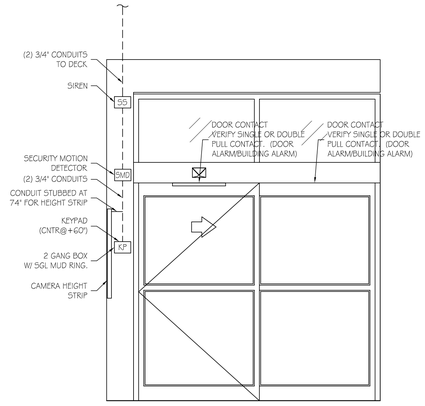
10 MOTION INSTALLATION - GYP. BD MOUNT
SCALE: 3" = 1'-0"



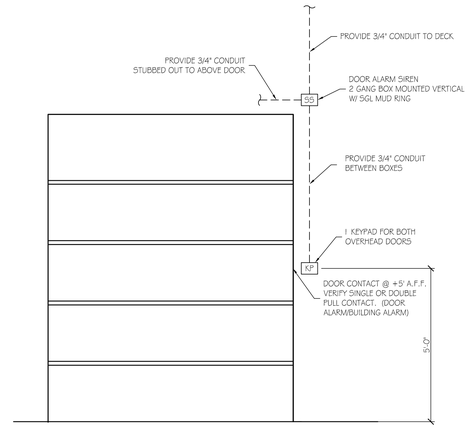
9 MOTION INSTALLATION - ACOUSTICAL CEILING MOUNT
SCALE: 3" = 1'-0"



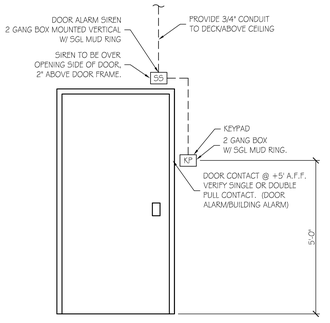
8 MOTION INSTALLATION - GYP. BD WALL MOUNT
SCALE: 3" = 1'-0"



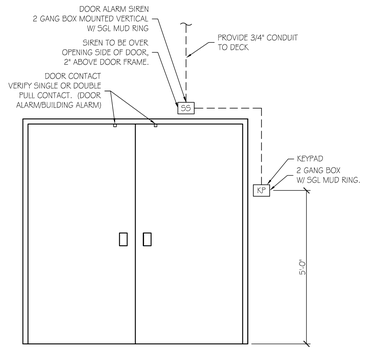
7 DOOR SECURITY DOOR ELEVATION - W&S
SCALE: 1/2" = 1'-0"



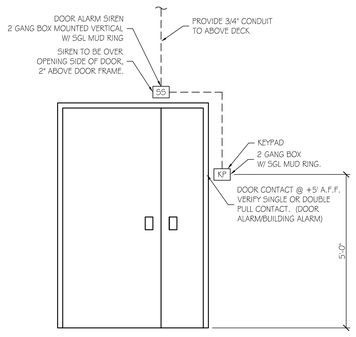
6 DOOR SECURITY DOOR ELEVATION - OVERHEAD DOOR
SCALE: 1/2" = 1'-0"



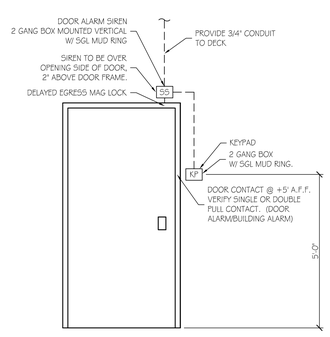
5 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR
SCALE: 1/2" = 1'-0"



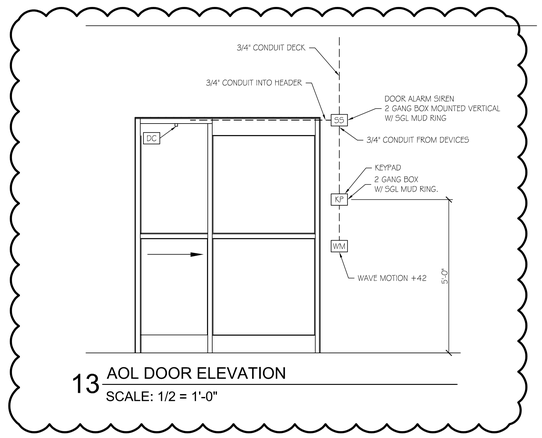
4 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR
SCALE: 1/2" = 1'-0"



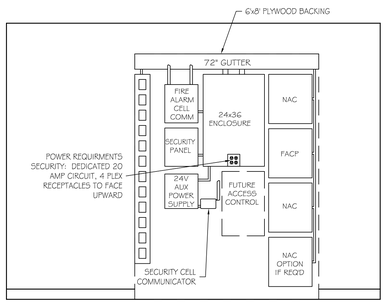
3 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR
SCALE: 1/2" = 1'-0"



2 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR W&S
SCALE: 1/2" = 1'-0"

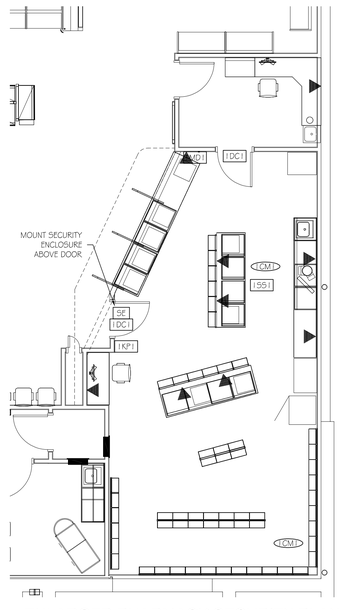


13 AOL DOOR ELEVATION
SCALE: 1/2 = 1'-0"



12 FIRE/SECURITY PANEL ELEVATION
SCALE: 1/2" = 1'-0"

SECURITY SYSTEM CABLING REQUIRMENTS	
CA	ACCESS DOOR TO INCLUDE CARD READER - 18/6 SHIELD CABLE REQUEST TO EXIT MOTION - 22/6 CABLE DOOR CONTACTOR - BLUE BROWN CONDUCTORS ON REX MOTION CABLE ELECTRIC DOOR STRIKE - 18/4 CABLE
DA	SECURITY LOCAL DOOR ALARM 1 DOOR CONTACT - RED BLACK CONDUCTORS ON SIREN CABLE 1 SIREN - 18/4 CABLE 1 KEYPAD - 18/6 CABLE
CR	ACCESS CONTROL CARD READER - 18/6 SHIELD CABLE
REX	ACCESS CONTROL REQUEST TO EXIT MOTION - 22/6 CABLE
MD	MOTION DETECTOR - 22/4 CABLE
SMD	SECURITY MOTION DETECTOR - 22/6 CABLE
ICOM	INTERCOM - CAT 6 CABLE
SE	SECURITY EQUIPMENT ENCLOSURE (11x15x4)
CM	CEILING MOUNTED SECURITY MOTION DETECTOR - 22/4 CABLE
EDH	ELECTRIC DOOR HARDWARE - 18/4 CABLE
DC	DOOR CONTACTOR - 22/4 CABLE
KP	KEYPAD - 22/6 CABLE @ +60" CENTERLINE A.F.F.
GB	GLASS BREAK - 22/4 CABLE
SS	SECURITY SIREN - 18/2 CABLE



1 ENLARGED PHARMACY SECURITY PLAN
SCALE: 3/16" = 1'-0"

COMMUNICATIONS & SECURITY

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH

PARTIAL SECURITY PLAN AND DETAILS

DRAWN: BP	DATE: OCT 2020
SCALE: SEE SHEET	JOB NUMBER:

SHEET:
T6.1

GENERAL NOTES

1. SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
2. REFRIGERATION CONTRACTOR RESPONSIBLE FOR SETTING ALL DIMENSIONED REFRIGERATED AND NON-REFRIGERATED CASES, SALAD BARS, HOT CASES, SELF-CONTAINED, ICE MACHINES, ETC.
3. WHEN CONFLICTS WITH UNDERGROUND STUB OCCURS, THE REFRIGERATION CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR.
4. CASE SUPPORTS SHALL NOT BE MODIFIED WITHOUT PRIOR APPROVAL.
5. REFRIGERATION CONTRACTOR SHALL INSTALL AND/OR RELOCATE AS REQUIRED TO FACILITATE CASE INSTALLATION.
6. FOLLOW ALL CASE MANUFACTURER JOINING INSTRUCTIONS.
7. CASES SHALL BE INSTALLED LEVEL, STRAIGHT AND TRUE UNLESS OTHERWISE INDICATED.
8. 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.
9. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR PROTECTING CASES FROM DELIVERY UNTIL OFFICIAL TURN OVER DATE.
10. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL EQUIPMENT TAGS ON ALL PIECES OF REFRIGERATION INCLUDING CASES AND EVAPORATORS.
11. SEE SHEET R5.0 FOR UNIT COOLER INSTALLATION DETAILS.

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

ENGINEER SEAL

STATE OF MISSOURI
SHANNAH EITTER
NUMBER E2001000891
REGISTERED PROFESSIONAL ENGINEER

HUSSMANN®
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910 Voice
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of 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) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

REFRIGERATION CASE LOCATION PLAN

PRELIMINARY - NOT FOR CONSTRUCTION

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

SHEET: R0

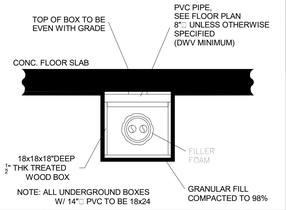
REFRIGERATION CASE LOCATION FLOOR PLAN

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

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

PVC TRENCH JUNCTION

SCALE: N.T.S.



NOTE: ALL UNDERGROUND BOXES W/ 14"□ PVC TO BE 18x24

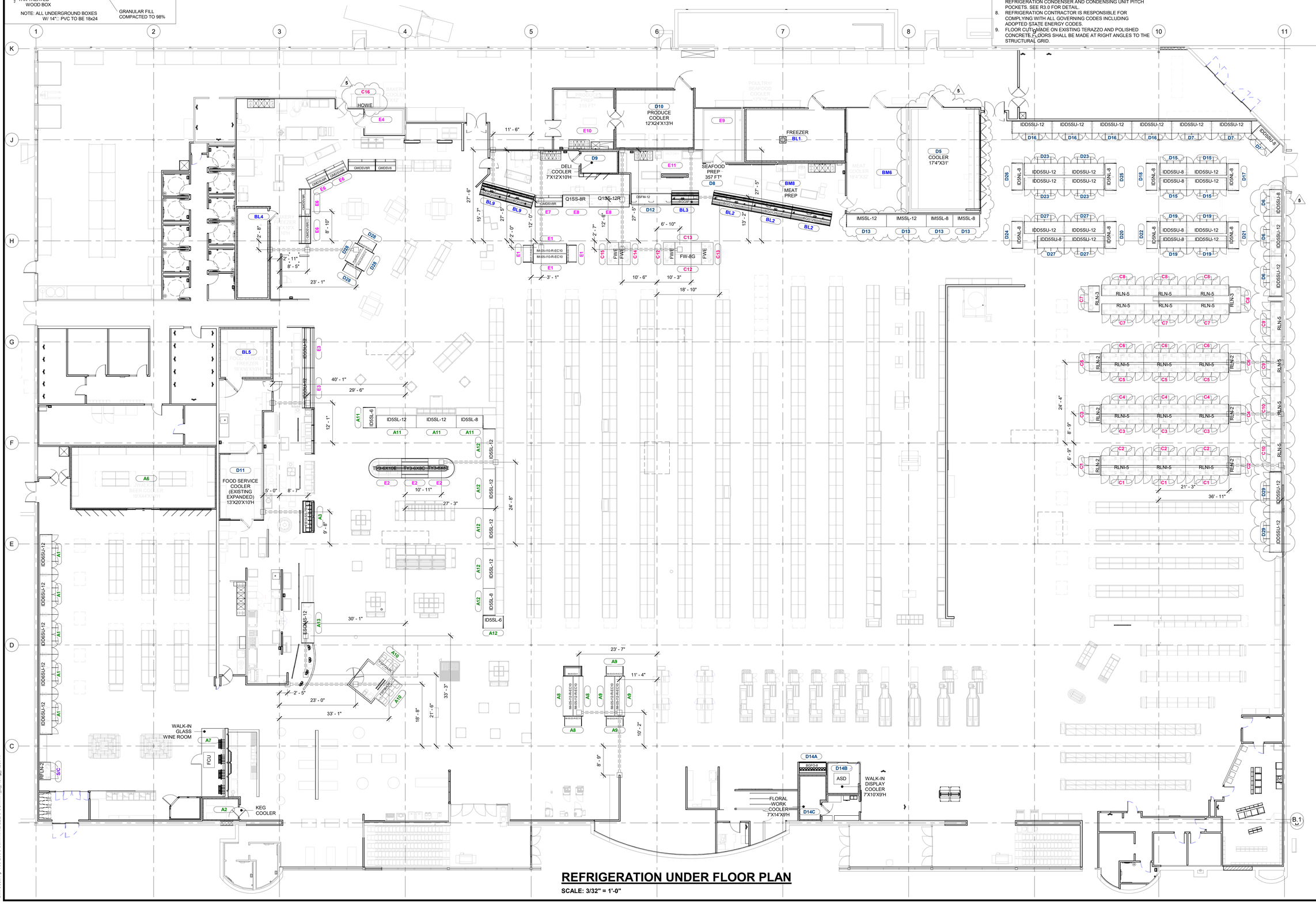
SYMBOLS LEGEND

A1	NEW REFRIGERATION SYSTEM NUMBERS
	REFRIGERATION PIT BOX
	REFRIGERATION LINES UNDERGROUND TRENCH BY DESIGNATED CONTRACTOR

GENERAL NOTES

1. SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
2. SEE PLUMBING DRAWINGS FOR LOCATION OF UNDERGROUND AND OVERHEAD PLUMBING PIPING AND FLOOR DRAINS.
3. TOP OF PVC PULL TUBES @ -14" AFF SEE SHEET METAL SHOP DRAWINGS FOR DETAILED LOCATION/ELEVATION DIMENSIONS.
4. SEE ARCHITECTURAL WALK-IN DRAWINGS FOR UNDER FLOOR INSTALLATION DETAILS BELOW FREEZERS.
5. 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.
6. ALL RECEIVER PRESSURE RELIEF VALVE PIPING TO BE INSTALLED BY REFRIGERATION CONTRACTOR PER GOVERNING MECHANICAL CODES.
7. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL ALL REFRIGERATION CONDENSER AND CONDENSING UNIT PITCH POCKETS. SEE R3.0 FOR DETAIL..
8. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL GOVERNING CODES INCLUDING ADOPTED STATE ENERGY CODES.
9. FLOOR CUTS MADE ON EXISTING TERAZZO AND POLISHED CONCRETE FLOORS SHALL BE MADE AT RIGHT ANGLES TO THE STRUCTURAL GRID.
10. 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.
11. 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 ½" ARMAFLEX MINIMUM. INSULATION ON ALL LINES 7/8" AND LARGER SHALL BE MITRED. DO NOT PULL INSULATION AROUND ELBOWS. ALL JOINTS SHALL BE GLUED.
12. REFRIGERATION UNDERGROUND PIT BOXES, PVC AND PIPING SUPPLIED BY REFRIGERATION CONTRACTOR.
13. PREMANUFACTURED PIT BOXES ARE ACCEPTABLE ON AN INDIVIDUAL BASIS. VERIFY MANUFACTURER AND TYPE PRIOR TO INSTALLATION.

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21



REFRIGERATION UNDER FLOOR PLAN

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

ENGINEER SEAL

STATE OF MISSOURI
SHANNAH EITTER
NUMBER E2001000891
REGISTERED PROFESSIONAL ENGINEER

HUSSMANN
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of 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) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION UNDER FLOOR PLAN

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

SHEET:

R1.0

BIM 360://Hy-Vee Lee's Summit #2/LEE'S SUMMIT 2_Refrig_R20.rvt

SYMBOLS LEGEND

A1	NEW REFRIGERATION SYSTEM NUMBERS
	REFRIGERATION PIT BOX
	REFRIGERATION LINES UNDERGROUND TRENCH BY DESIGNATED CONTRACTOR
	OVERHEAD PIPING
	FLOOR OR CASE PIPING

GENERAL NOTES

1. SEE PROJECT SPECIFIC EQUIPMENT SPECIFICATIONS BOOKLET PROVIDED BY HY-VEE FOR CASE DIMENSIONS, SIZES AND LOCATIONS OF RF REFRIGERATION STUBS, DEFROST DATA, AND WIRING DIAGRAMS.
2. SEE PLUMBING DRAWINGS FOR LOCATION OF UNDERGROUND AND OVERHEAD PLUMBING PIPING AND FLOOR DRAINS.
3. TOP OF PVC PULL TUBES @ -14" AFF SEE SHEET METAL SHOP DRAWINGS FOR DETAILED LOCATION/ELEVATION DIMENSIONS.
4. SEE ARCHITECTURAL WALK-IN DRAWINGS FOR UNDER FLOOR INSTALLATION DETAILS BELOW FREEZERS.
5. 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.
6. ALL RECEIVER PRESSURE RELIEF VALVE PIPING TO BE INSTALLED BY REFRIGERATION CONTRACTOR PER GOVERNING MECHANICAL CODES.
7. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL ALL REFRIGERATION CONDENSER AND CONDENSING UNIT PITCH POCKETS. SEE R3.1 FOR DETAIL.
8. 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.
9. 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.
10. DO NOT RUN PIPING UNDER SKYLIGHTS OR THROUGH ARCHITECTURAL ELEMENTS INCLUDING MURALS OR DROPPED CEILINGS.
11. ALL PIPE INSULATION INSTALLED OVER SALES FLOOR SHALL BE WHITE JACKETED.

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

ENGINEER SEAL

STATE OF MISSOURI — SHANNAH EITTER — NUMBER E2001000891 — REGISTERED PROFESSIONAL ENGINEER

HUSSMANN

Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION TO HUSSMANN CORPORATION, SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014.

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operation requirements 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 accuracy of 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) 267-2935

HyVee EMPLOYEE OWNED

NORTH — PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION PIPING FLOOR PLAN

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

SHEET: R2.0

REFRIGERATION PIPING FLOOR PLAN

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

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

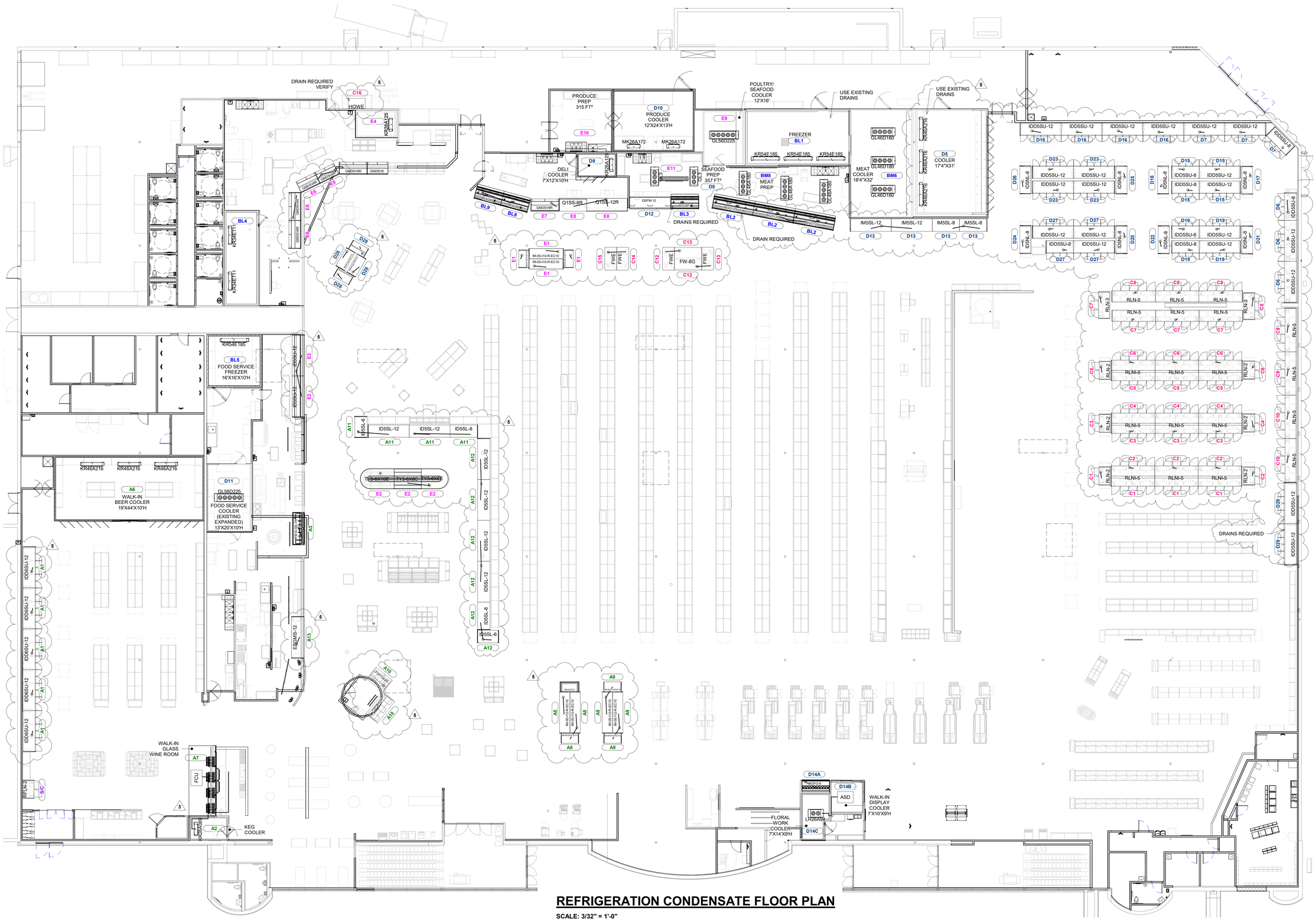
SYMBOLS LEGEND

A1	NEW REFRIGERATION SYSTEM NUMBERS
	HUB DRAIN
	FLOOR SINK
	CONDENSATE PIPING

GENERAL NOTES

1. 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.
2. 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.
3. CASE CONDENSATE PIPING SHALL BE FULL SIZE SCHEDULE 40 PVC PIPING. CLEANOUTS SHALL BE INSTALLED WHERE PIPING IS INACCESSIBLE.
4. EVAPORATOR CONDENSATE PIPING SHALL BE FULL SIZE TYPE M COPPER. SEE R5.0 FOR DETAILS
5. CONDENSATE DRAINS OF DIFFERENT REFRIGERATION SYSTEMS SHALL NOT BE CONNECTED WITHOUT A TRAP SEPARATING THE TWO SYSTEMS.
6. DO NOT PUT TRAPS IN SERIES
7. ALL CONDENSATE PIPING SHALL BE TESTED FOR LEAKS PRIOR TO INSTALLING HEAT TAPE, INSULATION OR CASE TRIM.
8. 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.
9. 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 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21



REFRIGERATION CONDENSATE FLOOR PLAN

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

HUSSMANN

Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL INFORMATION PROPRIETARY TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of all dimensions and refrigeration line sizing with contractors at the job site and insure that installations conform to specifications and all applicable codes.

ENGINEER SEAL



LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

HyVee EMPLOYEE OWNED

NORTH PLAN NORTH

REFRIGERATION CONDENSATE PIPING FLOOR PLAN

PRELIMINARY - NOT FOR CONSTRUCTION

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

SHEET: R2.1

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

RACK D

STORE: HY-VEE #2
LOCATION: LEE'S SUMMIT, MO
QUOTE / JOB #: 95954

CUSTOMER	HY-VEE
CONTACT	
SALESPERSON	FRED COOK
ENGINEER	SHANNAH EITTER, P.E., LEED AP

GRP	SYS #	REFRIGERATOR/UNIT COOLER SIZE	MODEL	DESCRIPTION	DIS AIR TMP	REQ'D CAP (MBH)	EVP TMP	DEF TYPE	DEF TER	INPUTS DI	INPUTS AI	BRANCH KITS INSTALLED VLV	SL	CS	LL	BALL VALVES LINE SIZING FT	LL	SL	SR	ELECTRIC DEFROST 208V (REMOTE) KIT	KIT	KIT	KIT	KIT
												CDS												
	1	SPARE						KG	TIME		1	4 20CD	9	BD		145	1/2	1 1/8	7/8					
	2	SPARE						KG	TIME		1	9 20CD	9	BD		166	1/2	1 1/8						
	3	SPARE						KG	TIME		1	9 20CD	9	BD		196	1/2	1 1/8						
	4	SPARE						KG	TIME			SOV 16EB	9	BD										
DL							-23																	
	5	**22x32x10+11 DRS**	**(3)KR46A216**	DAIRY COOLER	36	**46.50**	26	OT	TIME		5	**9** 10CD	9	CD		100	7/8	**1 3/8**	**1 3/8**					
	6	**32**	**ID05SU**	**DAIRY**	**38**	**7.84**	**34**	OT	TIME		4	9 10CD	9	CD		102	5/8	**5/8**	**5/8**					
	7	32	ID5SU	DAIRY	38	7.84	34	OT	TIME		5	9 10CD	9	CD		100	7/8	5/8	5/8					
	8	357 FT^2	(2)GL36A135	SEAFOOD PREP	55	49.98	35	OT	TIME		3	9 12CD	11	CD		210	7/8	1 5/8	1 3/8					
	9	8x12x10^3DRS	KR26A125	DELI COOLER	34	10.40	24	OT	TIME		1	4 10CD	9	BD		300	1/2	7/8	7/8					
	10	18x24x13	(2)MK26A172	PRODUCE COOLER	40	30.50	30	OT	TIME		1	9 20CD	9	BD		230	5/8	1 3/8	1 1/8					
	11	14x20x10	GL56A225	KITCHEN COOLER	34	17.90	24	OT	TIME		1	9 10CD	9	CD		450	1/2	1 1/8	7/8					
	12	12	DSFM	SEAFOOD	31	3.60	24	OT	TIME		2	7				250	1/2	5/8	5/8					
	13	**40**	IMSSL	MEAT	31	**43.80**	27	OT	TIME		1	9 10CD	9	BD		190	5/8	1 3/8	1 3/8					
	14A	8	BGFO	FLORAL		10.07	25	OT	TIME	*		4					1/2	7/8						
	14B	1	ASD	FLORAL		12.50	25	OT	TIME	*		4					1/2	1 1/8						
	14C	6x14x10	LH26A94	FLORAL COOLER	34	7.30	24	OT	TIME	*		4					1/2	7/8						
		LOOP 14															5/8	1 3/8						
		LOOP	SYSTEMS 15-29	D CONTINUED		122.72	28										7/8	2 1/8						
	28	22	IM05R	GRAB AND GO	30	25.52	25					7				350	5/8	1 3/8	1 1/8					
												*SHIP LOOSE VALVES PROVIDED BY FACTORY												
DR						396.47	22																	

120V ELEC FAN AMP	LT AMP	AS HTR	SUP AMP	DEFROST/ FANS 208V/1	208V/3	RISER SIZE	EVAP TXV EQVE

RACK MODEL:	CS0207SDK

SYSTEM (MBH)	REQ	AVAL	%
DL		30.6	
DR	396.5	469.7	84

NOTES:	500.3

UNIT ACCESS.	KIT	VENDOR/MODEL
CSR (If Applied)	YES	On this Rack.
OIL REGULATOR	28WD	TRAXOIL
CRANKCASE HTRS	NO	
SUCTION FILTER	SPOR	SPORLAN STEEL
RACK ASSEMBLY	06SP	
RACK ACCESS	ALL	
RECEIVER	HS32	STANDARD REC
RECEIVER ACC	02RA	
VIBRATION ISOL	07SS	PADS
SAT MOD		
OIL RESERVOIR	99OR	
SHIP LOOSE OIL	15PO	POE OIL
OIL SEPARATOR	97WD	S6608
OIL FILTER	02OF	ROF 413
OIL COOLING		
DISCH LINE SIZE	2 1/8	2 5/8 DISCH HDR
LIQUID LINE SIZE	2 1/8	3 1/8 LIQ HDR
HEAT RECLAIM		
HR X OVER		
HR VOLT MOD		
SPLIT COND	55WN	16D17B-SC
COMP METAL CAPS	NO	
PAINT HEADS	NO	
EQUALIZE OIL FLOATS	NO	
OIL PRESS DIFF VLV		
WEEP HOLES	NO	

UNIT ACCESS.	WM	KIT	VENDOR/MODEL
EQL LINE BV		16WF	7/8
BV TO COND		20DF	2) 2 1/8
BV FRM COND		20DF	2) 2 1/8
BV TO HT RCLM			
BV FRM HR			
LIQ DRIER ASSY		44WM	C19217GR
LIQ DRIER BYPASS			
DIFFERENTIAL VLV		52WM	LDR-20 2 1/8
DIFF NORM OPEN		NO	
LIQ DRAIN REG (Wrist Ctrl)		34FV	A82 1 5/8P 2 1/8C
REC PRESS REG		59RP	A9 5/8
SURGE PIPING			
SPLIT SUCTION MOD			
SUCT MAN INSUL		06SI	
LIQU MAN INSUL			
SUBCOOLER			
2/3 TXV (Part # & Model)			
1/3 TXV (Part # & Model)			
Solenoid #1 (Part # & Model)			
Solenoid #2 (Part # & Model)			
Subcooler EPR Valve.			

UNIT ACCESS.	KIT	VENDOR/MODEL
ELECTRICAL ASSY	14PB	
MECH DEFROST TIMER		
ELEC DEFROST PANEL		
DEF PANEL ELEC ASSY		
SINGLE PHS PROT	01EK	
CONTROL POWER CONN	01PW	
COMP TIME DELAY		Thru controller
HIGH PRSSR CNTRL	70DP	
LOW PRSSR CTRL		
OIL FAILURE CTRL		
HR LOCKOUT		
HIGH SUCT CNTRL		
BASIC ALARM KIT	07EC	
HUSSMANN ALARM BOARD		
LIQUID LEVEL INDICATOR	01AN	Analog Horiz. Rec.
ALARM BELL		
CIRCUIT ORIENTATION	VSMR	VERT CKTS SPUN
CONTROLLER	NO	CPC EINSTEIN
PROGRAMMING	NO	No Programming
COND RELAY BRD	NO	AT CONDENSER
PRE-PURGE VALVE		
POST PURGE VALVES		
PUMP OUT LOCATION	3	On 3RD Compressor
FILL COMP/SEPAR W/OIL		No Oil / Ship Dry

RACK D

STORE: HY-VEE #2
LOCATION: LEE'S SUMMIT, MO
QUOTE / JOB #: 95954

REMOTE CONDENSER	
REFER:	12CD
MODEL:	LCV V 8408K
CNTRL:	**CPC EINSTEIN**
FAN CNTR:	CPC V08 KB412
THR (BTUH):	746779
HR (BTUH):	
TD (DEG):	15.2
WGT (LBS):	2670
CHG (LBS):	240
FPI:	8
DIM:	220"x96"x55"
FLA:	35.2 @ 200V
FANS:	2x4 850 RPM
DAMPERS:	
FIN COAT:	
LEGS:	
NOTES:	50% REDUCTION

SUCTION GROUP:	DL	DL	DR	DR	DR	DR	DR
COMPRESSOR:	ZF08K4E	ZF24K4E	ZF18K4E	ZF33K4E	ZF40K4E	ZF48K4E	ZF48K4E
QUANTITY:	7	1	1	1	1	1	1
COMPRESSOR ASSY:	53GL	45GL	21GL	23GL	47GL	64GL	64GL
COMPRESSOR HP:	3	7.5	6	10	13	15	15
SUCTION TEMP:	-23	-23	22	22	22	22	22
SUBCOOLING TEMP:							
CAPACITY (BTUH):	7994	22645	49190	83698	102057	117365	117365
POWER (KW):	2.260	5.986	6.115	11.244	13.479	16.565	16.565
HEAT OF REJ (BTUH):	15706	43076	70061	122073	148059	173902	173902
ECON/SC CAP FAC:							
ECON/SC CAP:							
ECON POWER FAC:							
ECON POWER:							
INVERTER(VSD):							
DEM COOL / LIQ INJ:	99FZ	99FZ					
SUCTION HEADER:							
ACCUMULATOR:							
UNLOADER:							
SUCTION SIZE:	7/8	1 3/8	7/8	1 3/8	1 3/8	1 5/8	1 5/8
FILTER MODEL:	RSF487T	RSF4811T	RSF487T	RSF4811T	RSF4811T	RSF4813T	RSF4813T
FILTER CORE:	RPE48BD	RPE48BD	RPE48BD	RPE48BD	RPE48BD	RPE48BD	RPE48BD
DISCHARGE SIZE:	1/2	7/8	1/2	7/8	7/8	1 1/8	1 1/8
CHECK VALVES:							
WIRE SIZE:	12	8	8	4	3	3	3
CONTACTOR:	NEMA 0	NEMA 2	NEMA 1	NEMA 2	NEMA 3	NEMA 3	NEMA 3
BREAKER:	15	50	40	70	90	100	100
RLA:	9.7	30.9	23.9	44.9	52.9	60.0	60.0
CRANKCASE HTR:							
CSR:							
HEAD FAN KIT:							

COMPONENT MANUFACTURER	
SOLENOID VLV:	SPORLAN
BALL VALVE:	MUELLER FP
CHECK VALVE:	MUELLER

STORE DESIGN CONDITIONS		PAGE:	1 OF 1
AMBIENT TEMP:	100	DATE:	**8/6/2002**
INSIDE TEMP/RH:	75/55	BY:	JRH
ALTITUDE (FEET):	0	QUOTE:	95954
COND. TEMP:	115	FILE:	
REFRIGERANT:	R404A	RACK PHYSICAL SPECS	
COMP TYPE:	Copeland Scroll	DIMEN:	See Mech. Notes
COMP VOLT:	208/3/60	WEIGHT:	for Details
CNTRL VOLT:	120/1/60	RECEIVER SPECS	
COND VOLT:	208/3/60	DIMEN:	14"D x 132"
		CAP:	535
		OIL COOLER	
		MODEL:	
		CNTRL:	
		DIMEN:	
		WEIGHT:	
		RLA:	

SPEC USED / DATE	4/16/2002
MECH NOTES PAGE	NO

NOTES:	

REV	DATE	BY	STAT	DESCRIPTION	PRINT DATE	4/19/2021	Version:	2002 V1
A	8/14/2002	JRH	CC	Changes per 8/8 email.				

RACK D CONTINUED

STORE: HY-VEE #2
LOCATION: LEE'S SUMMIT, MO
QUOTE / JOB #: 95954

CUSTOMER	HY-VEE
CONTACT	
SALESPERSON	FRED COOK
ENGINEER	SHANNAH EITTER, P.E., LEED AP

GRP	SYS #	REFRIGERATOR/UNIT COOLER SIZE	MODEL	DESCRIPTION	DIS AIR TMP	REQ'D CAP (MBH)	EVP TMP	DEF TYPE	DEF TER	INPUTS DI	INPUTS AI	BRANCH KITS INSTALLED VLV	SL	CS	LL	BALL VALVES LINE SIZING FT	LL	SL	SR	ELECTRIC DEFROST 208V (REMOTE) KIT	KIT	KIT	KIT	KIT
	15	40	IDD5SU	DAIRY	38	9.80	34	OT	TIME	*		CDS4					1/2	7/8						
	16	**48**	IDD5SU	DAIRY	38	**11.76**	34	OT	TIME	*		**CDS4**					1/2	7/8						
	17	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	18	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	19	20	IDD5SU	DAIRY	38	4.90	34	OT	TIME	*		CDS2					1/2	5/8						
	20	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	21	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	22	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	23	48	IDD5SU	DAIRY	38	11.76	34	OT	TIME	*		CDS4					1/2	7/8						
	24	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	25	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	26	8	IDSNL	DAIRY	33	8.48	28	OT	TIME	*		CDS4					1/2	7/8						
	27	44	IDD5SU	DAIRY	38	10.78	34	OT	TIME	*		CDS4					1/2	7/8						
	29	**24**	**IDD5SU**	**DAIRY**	**38**	**5.88**	**34**	**OT**	**TIME**	*		**CDS4**												
												*SHIP LOOSE VALVES PROVIDED BY FACTORY												
		LOOP 15				122.72	28																	

120V ELEC FAN AMP	LT AMP	AS HTR	SUP AMP	DEFROST/ FANS 208V/1	208V/3	RISER SIZE	EVAP TXV EQVE

RACK MODEL:	CS0200SDK

SYSTEM (MBH)	REQ	AVAL	%

NOTES:	

UNIT ACCESS.	KIT	VENDOR/MODEL
CSR (If Applied)		
OIL REGULATOR		
CRANKCASE HTRS		
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 RECLAIM		
HR X OVER		
HR VOLT MOD		
SPLIT COND		
COMP METAL CAPS		
PAINT HEADS		
EQUALIZE OIL FLOATS		
OIL PRESS DIFF VLV		
WEEP HOLES		

UNIT ACCESS.	KIT	VENDOR/MODEL

UNIT ACCESS.	KIT	VENDOR/MODEL

RACK D CONTINUED

STORE: HY-VEE #2
LOCATION: LEE'S SUMMIT, MO
QUOTE / JOB #: 95954

REMOTE CONDENSER	
REFER:	
MODEL:	
CNTRL:	
FAN CNTR:	
THR (BTUH):	
HR (BTUH):	
TD (DEG):	
WGT (LBS):	
CHG (LBS):	
FPI:	
DIM:	
FLA:	
FANS:	
DAMPERS:	
FIN COAT:	
LEGS:	
NOTES:	

SUCTION GROUP:							
COMPRESSOR:							
QUANTITY:							
COMPRESSOR ASSY:							
COMPRESSOR HP:							
SUCTION TEMP:							
SUBCOOLING TEMP:							
CAPACITY (BTUH):							
POWER (KW):							
HEAT OF REJ (BTUH):							
ECON/SC CAP FAC:							
ECON/SC CAP:							
ECON POWER FAC:							
ECON POWER:							
INVERTER(VSD):							
DEM COOL / LIQ INJ:	99FZ	99FZ					
SUCTION HEADER:							
ACCUMULATOR:							
UNLOADER:							
SUCTION SIZE:							
FILTER MODEL:							
FILTER CORE:							
DISCHARGE SIZE:							
CHECK VALVES:							
WIRE SIZE:							
CONTACTOR:							
BREAKER:							
RLA:							
CRANKCASE HTR:							
CSR:							
HEAD FAN KIT:							

COMPONENT MANUFACTURER	
SOLENOID VLV:	SPORLAN
BALL VALVE:	MUELLER FP
CHECK VALVE:	MUELLER

STORE DESIGN CONDITIONS		PAGE:	1 OF 1
AMBIENT TEMP:	100	DATE:	**8/6/2002**
INSIDE TEMP/RH:	75/55	BY:	JRH
ALTITUDE (FEET):	0	QUOTE:	95954
COND. TEMP:	115	FILE:	
REFRIGERANT:	R404A	RACK PHYSICAL SPECS	
COMP TYPE:	Copeland Scroll	DIMEN:	
COMP VOLT:	208/3/60	WEIGHT:	
CNTRL VOLT:	120/1/60	RECEIVER SPECS	
COND VOLT:	208/3/60	DIMEN:	
		CAP:	
		OIL COOLER	
		MODEL:	
		CNTRL:	
		DIMEN:	
		WEIGHT:	
		RLA:	

SPEC USED / DATE	4/16/2002
MECH NOTES PAGE	NO

NOTES:	

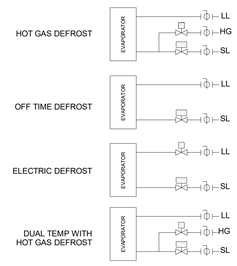
GENERAL SHEET NOTES

- 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.

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #6	03/25/21
4	ASI #7	04/20/21

LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



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.

ENGINEER SEAL



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**	**DAIRY CLR**	**36**	**2**	**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**	**90**	**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**
W/I = WALK-IN					**DELI CLR**	**34**	**2**	**60**	**O**

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**	**C2K-EP, LEP, XLEP**	**31**	**2**	**30**	**O**
ESGMS, ESGSS	**27**	**1**	**90**	**O**	**C5K-EP, LEP**	**31**	**2**	**30**	**O**
SMG, SMGV	**24**	**1**	**70**	**O**	**C6K-EP, LEP**	**31**	**2**	**30**	**O**
SSGVE	**24**	**1**	**70**	**O**	**D5X, D5NX-LEP**	**30**	**3**	**30**	**O**
RACK					**D5X-ULEP**	**30**	**4**	**20**	**O**
RL SERIES - FF	**-5**	**1**	**20**	**KG**	**D6X-ULEP**	**30**	**4**	**25**	**O**
RL SERIES - IC	**-12**	**1**	**20**	**KG**	**DD5X-ULEP**	**33**	**1**	**60**	**O**
PROTOCOL					**DD6X-ULEP**	**37**	**1**	**50**	**O**
RL SERIES - FF	**-5**	**1**	**45**	**E**	**IM-R**	**32**	**6**	**20**	**O**
RL SERIES - IC	**-12**	**1**	**45**	**E**	**M4X-EP**	**29**	**4**	**30**	**O**
					M5X-EP	**30**	**4**	**30**	**O**
					PWWE	**34**	**4**	**45**	**O**
IC = ICE CREAM					**Q1-S5**	**26**	**4**	**30**	**O**
FF = FROZEN FOOD					**R3HV-MF**	**24**	**4**	**40**	**O**

DUAL TEMP CASES LT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	DUAL TEMP CASES MT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
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

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of all dimensions and refrigeration line sizing with contractors at the job site and insure that installations conform to specifications and all applicable codes.

HUSSMANN®
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

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

SHEET:

R4.0

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

ATLANTA REFRIGERATION PROTOCOL UNIT LEGEND

COD Selection

STORE: HY-VEE
LOCATION: LEE'S SUMMIT #2
QUOTE #: 95954
JOB #: 344600

ASHRAE DESIGN CITY: KANSAS CITY, MO

OFC = On Fan Circuit

CUSTOMER	
SALESMAN	
ENGINEER	SHANNAH EITTER, P.E., LEED AP

UNIT LTR	SYS #	SIZE	MODEL	DESCRIPTION	DISCH TEMP	CAP MBH	MID EVP TEMP	DEF TYPE	DEF TERM
	1	60	IDD6SU	BEER	37	17.40	34	OT	TIME
	2	12x8x10	KR26A089	KEG COOLER	33	8.40	21	OT	TIME
	3	1	FB10SS7R	HIBACHI		2.50	20	OT	TIME
	4	SPARE							
	5	SPARE							
	6	20x44x10+14 DRS	(3)KR46A216	BEER COOLER	33	59.21	21	OT	TIME
	7	1	US CELLAR FCU	WINE ROOM	58	12.00	40	OT	TIME
	8	25	IM05R	GRAB AND GO	30	29.00	25	OT	TIME
	9	29	IM05R	GRAB AND GO	30	33.64	25	OT	TIME
	10	2	FSP9642R+FSP7242R	SUSHI		13.57	20	OT	TIME
	11	38	ID5SL	PRODUCE	32	38.76	28	OT	TIME
	12	62	ID5SL	PRODUCE	32	63.24	28	OT	TIME
	13	12	ESGMS	DELI	27	3.24	22	OT	TIME
A						280.96	18		
	1	18x32x10	(3)KR54E185	ICE CREAM FREEZER	-15	33.90	-22	EL	TEMP
	2	36	BGGS (EXIST)	MEAT		9.22	17	OT	TIME
	3	8	BGGF (EXIST)	SEAFOOD		2.05	17	OT	TIME
	4	10x28x10	(2)KR34E111	BAKERY FREEZER	-5	18.60	-15	EL	TEMP
	5	16x16x10	KR54E185	KITCHEN FREEZER	-5	17.00	-15	EL	TEMP
	9	16	BGGS	MEAT		4.10	17	OT	TIME
BL						84.86	-25		
	6	18x32x10	(3)GL46D180	MEAT COOLER	28	34.00	21	EL	TEMP
	7	SPARE						EL	TEMP
	8	**622 FT^2**	**(3)GL46A180**	MEAT PREP	55	**87.10**	35	OT	TIME
BM						121.10	19		
	1	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	2	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	3	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	4	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	5	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	6	2+15	RLN+RLNI	ICE CREAM	-12	16.68	-19	EL	TEMP
	7	18	RLN	ICE CREAM	-12	19.17	-19	EL	TEMP
	8	18	RLN	ICE CREAM	-12	19.17	-19	EL	TEMP
	9	10	RLN	ICE CREAM	-12	10.65	-19	EL	TEMP
	10	10	RLN	ICE CREAM	-12	10.65	-19	EL	TEMP
	11	**SPARE**						EL	TEMP
	12	8/2+E	FW	DUAL TEMP FROZEN	-12	6.20	-20	EL	TEMP
	13	8/2+E	FW	DUAL TEMP FROZEN	-12	6.20	-20	EL	TEMP
	14	1	FWE	DUAL TEMP FROZEN	-12	2.12	-20	EL	TEMP
	15	1	FWE	DUAL TEMP FROZEN	-12	2.12	-20	EL	TEMP
	16	**1**	**HOWE 2000 RLE**	**ICE MACHINE**		**17.05**	**-5**	**OT**	**TIME**
C						193.41	-23		

UNIT LTR	SYS #	WALK-INS EXP VALVE QTY	WALK-INS EXP VALVE MODEL	WALK-INS HEAT EXCH	CASE ELECTRICAL (115/1) FAN AMP	LT AMP	AS AMP	SUP AMP	(208/1) DEF AMP	DEF CONTROL VLVS @ EVAPORATOR LIQ	SUCT	GAS	TEMP CONTROL EPR	CIRCUIT PIPING (OLP ONLY) LIQ BV	SUCT BV	LIQ SOL	SUCT EPR/SLND
	1												CDS7	1/2	1 1/8		
	2												CDS4	1/2	7/8		
	3												CDS2	1/2	7/8		
	6												CDS9	7/8	1 5/8		
	7												CDS4	1/2	7/8		
	8												CDS7	5/8	1 3/8		
	9												CDS7	5/8	1 3/8		
	10												CDS4	1/2	7/8		
	11												CDS7	5/8	1 3/8		
	12												CDS9	7/8	1 5/8		
	13												SPORT-37	1/2	7/8		
	1												CDS9	5/8	2 1/8	E6S140	
	2												SPORT-37	1/2	1 1/8		
	3												SPORT-37	1/2	7/8		
	4												CDS7	1/2	1 3/8	E5S130	
	5												CDS7	1/2	1 3/8	E5S130	
	9												SPORT-37	1/2	7/8		
	6												CDS7	5/8	1 3/8		
	8												SORIT-PI-4	1 1/8	2 1/8	ME19S270	
	1												CDS7	1/2	1 3/8	E5S130	
	2												CDS7	1/2	1 3/8	E5S130	
	3												CDS7	1/2	1 3/8	E5S130	
	4												CDS7	1/2	1 3/8	E5S130	
	5												CDS7	1/2	1 3/8	E5S130	
	6												CDS7	1/2	1 3/8	E5S130	
	7												CDS7	1/2	1 3/8	E5S130	
	8												CDS7	1/2	1 3/8	E5S130	
	9												CDS4	1/2	1 1/8	E3S130	
	10												CDS4	1/2	1 1/8	E3S130	
	11												CDS4	1/2	1 3/8	E5S130	
	12												CDS4	1/2	1 1/8	E3S130	
	13												CDS4	1/2	1 1/8	E3S130	
	14												CDS2	1/2	7/8	E3S130	
	15												CDS2	1/2	7/8	E3S130	

UNIT SPECS	UNIT A OLHAH06TK					OLP	UNIT B OLHAH06TK					OLP	UNIT C OLHAH06TK					OLP
	208/3/60	R448A	OLP UNIT	DEW COND	119	SAT	208/3/60	R448A	OLP UNIT	DEW COND	119	SAT	208/3/60	R448A	OLP UNIT	DEW COND	114	SAT
SUCTION GROUP	A	A	A				BL	BL	BL	BM	BM		C	C				
COMPRESSOR	ZBD57KCE	ZB26KCE	ZB57KCE				ZFD25KVE	ZF25KVE	ZF28KVE	**ZBD57KCE**	ZB57KCE		ZFD25KVE	ZF28KVE				
COMP QUANTITY	1	1	4				1	1	1	1	2		1	5				
DEW SUCTION TEMP	22	22	22				-21	-21	-21	23	23		-19	-19				
CAPACITY (BTUH)	59,197	25,170	59,197				28,675	28,675	33,784	60,480	60,480		30,277	35,685				
POWER (KW)	7.15	3.50	7.15				5.32	5.32	6.42	7.18	7.18		5.08	6.14				
HEAT OF REJ (BTUH)	83,589	37,110	83,589				46,826	46,826	55,705	84,981	84,981		47,605	56,626				
COMPRESSOR RLA	31.90	11.90	31.90				24.50	24.50	27.30	31.90	31.90		24.50	27.30				
OIL REGULATOR																		
UNLOADER																		
HEAD FANS																		
BREAKER/CONT																		
LIQUID INJ - SL(B)																		

DEMAND COOL REQ'D

	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD
	A	281.0	321.2	87.5%	455,055	15	BL	84.9	91.1	93.1%	404,300	15	C	193.4	208.7	92.7%	330,734	10
					0	MID COND	BM	121.1	181.4	66.7%	0	MID COND					0	MID COND
						115						115						110
UNIT	208V	460V	208V PAN	MAIN FRM DIMS** 166"L x 46"W x 34"H		PUMP FRAME	208V	460V	208V PAN	MAIN FRM DIMS** 166"L x 46"W x 34"H		PUMP FRAME	208V	460V	208V PAN	MAIN FRM DIMS** 166"L x 46"W x 34"H		PUMP FRAME
RLA																		
MCA				MAIN FRM WT		PUMP FRM WT				MAIN FRM WT		PUMP FRM WT				MAIN FRM WT		PUMP FRM WT
MOPD				2,500						2,500						2,500		
AIC / SCCR RATING	10,000	10,000	10,000	AIC / SCCR RATING			10,000	10,000	10,000	AIC / SCCR RATING			10,000	10,000	10,000			

Print Date: 4/19/2021 Version: 3.6A Last Revision to this legend: 1/12/2018

5

ATLANTA REFRIGERATION PROTOCOL UNIT LEGEND

STORE: HY-VEE
LOCATION: LEE'S SUMMIT #2
QUOTE / JOB #: 95954 / 344600

STORE DESIGN CONDITIONS		PAGE:	1
VOLTAGE:	208/3/60	DATE:	12/15/2020
AMBIENT TEMP:	100	BY:	STE
INSIDE DESIGN:	75 F/55% RH	COND METHOD	AIR COOLED
ALTITUDE:	1024 FT	QUOTE#:	95954
REFRIGERANT:	R448A	JOB#:	344600

UNIT ACCESSORIES AND MODIFICATIONS

A #	A KIT	A DESCRIPTION	B #	B KIT	B DESCRIPTION	C #	C KIT	C DESCRIPTION
UNIT TYPE: PROTOCOL OLP HE		COMPRESSOR TYPE: COPELAND SCROLL	UNIT TYPE: PROTOCOL OLP HE		COMPRESSOR TYPE: COPELAND SCROLL	UNIT TYPE: PROTOCOL OLP HE		COMPRESSOR TYPE: COPELAND SCROLL
1	OLP6FR	FRAME OLP 6 COMP	1	OLP6FR	FRAME OLP 6 COMP	1	OLP6FR	FRAME OLP 6 COMP
1	57ZK	ASSM ZBD57KCETF5 208V	1	25ZK	ASSM ZFD25KVE-TF5 208V	1	25ZK	ASSM ZFD25KVE-TF5 208V
1	26BK	ASM ZB26KCE-208 V	1	25VK	ASSM ZF25KVE-TFC 208V	5	28VK	ASSM ZF28KVE-TFC 208V LT
4	57BK	ASSM ZB57KCETF5 208V	1	28VK	ASSM ZF28KVE-TFC 208V LT	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	1	57ZK	ASSM ZBD57KCETF5 208V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	2	57BK	ASSM ZB57KCETF5 208V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY
		NO HEAT RECLAIM KIT			NO HEAT RECLAIM KIT			NO HEAT RECLAIM KIT
1	OLPSC11	OLP SPLIT COND SPORLAN 1-3/8	1	OLPSC11	OLP SPLIT COND SPORLAN 1-3/8	1	OLPSC11	OLP SPLIT COND SPORLAN 1-3/8
1	OLD11SL	OLP LIQUID DRIER 1.375 SL	1	OLD11SL	OLP LIQUID DRIER 1.375 SL	1	OLD11SL	OLP LIQUID DRIER 1.375 SL
		NO FACTORY RECEIVER KIT			NO FACTORY RECEIVER KIT			NO FACTORY RECEIVER KIT
1	O400K	OLP SWITCH CONV 400A 208V	1	O400K	OLP SWITCH CONV 400A 208V	1	O400K	OLP SWITCH CONV 400A 208V
		NO ECONOMIZER/SUBCOOLER KIT	1	OLPEC38	OLP ECONOMIZER 3.2 TON	1	OLPEC68	OLP ECONOMIZER 6.2 TON
		NO HOT GAS DEFROST KIT	1	111FX	WIREWAY			NO HOT GAS DEFROST KIT
			1	112FX	JUNCTION BOX			
			1	SSXVR11	OLP SUCT CROSSOVER 1.375			
			1	41BB	CONTROL TEMP A421ABC02C	1	41BB	CONTROL TEMP A421ABC02C
6	91YU	CRANKCASE HTR CNTR 208V	6	91YU	CRANKCASE HTR CNTR 208V	6	91YU	CRANKCASE HTR CNTR 208V
			2	55LI	DEMAND COOL DTC VLV HE SCROLL	1	55LI	DEMAND COOL DTC VLV HE SCROLL
			1	58LI	DEMAND COOL DTC VLV ZF28KVE-208V ONLY	5	58LI	DEMAND COOL DTC VLV ZF28KVE-208V ONLY
			1	22FT	LIQ INJ MANIFOLD 2-4 COMP	1	23FT	LIQ INJ MANIFOLD 5-6 COMP
6	00CP	COMPR PROOF POINT	6	00CP	COMPR PROOF POINT	6	00CP	COMPR PROOF POINT
5	75PC	LPC ADJ SPST PENN	4	75PC	LPC ADJ SPST PENN	5	75PC	LPC ADJ SPST PENN
1	04RP	RCVR PRESS REG CDS4 .875 C SL	1	04RP	RCVR PRESS REG CDS4 .875 C SL	1	04RP	RCVR PRESS REG CDS4 .875 C SL
1	02HBS	WINTER CTRL CDS-9 SPORLAN SL	1	02HBS	WINTER CTRL CDS-9 SPORLAN SL	1	02HBS	WINTER CTRL CDS-9 SPORLAN SL
12	16BB	BREAKER 1P-20A 120V	4	90FP	BREAKER & FAN KILL RELAY 2P-15A 208V	1	16BB	BREAKER 1P-20A 120V
4	16LB	POWERLINK 1P-20A 120V	4	24LA	POWERLINK 2P-30A 208V	1	24BK	BREAKER 3P-30A 208V
1	12BB	BREAKER 1P-15A 120V	2	32LA	POWERLINK 2P-40A 208V	1	16BA	BREAKER 2P-20A 208V
1	16BA	BREAKER 2P-20A 208V	1	16LA	POWERLINK 1P-20A 208V			
1	51FR	POWER SUPPLY 2P 208V	1	24BK	BREAKER 3P-30A 208V			
1	24BK	BREAKER 3P-30A 208V	1	16BA	BREAKER 2P-20A 208V			
1	111FX	WIREWAY	1	12BB	BREAKER 1P-15A 120V	1	111FX	WIREWAY
1	112FX	JUNCTION BOX	1	16LB	POWERLINK 1P-20A 120V	1	112FX	JUNCTION BOX
			2	51FR	POWER SUPPLY 2P 208V			
			2	88CP	CPC MULTIFLEX 88 CIO BD 810-3064			
1	68CP	CPC MULTIFLEX 168 CIO BD 810-3066				1	68CP	CPC MULTIFLEX 168 CIO BD 810-3066
2	16CP	CPC MULTIFLEX 16AI BOARD 810-3013	2	16CP	CPC MULTIFLEX 16AI BOARD 810-3013	4	16CP	CPC MULTIFLEX 16AI BOARD 810-3013
1	00ZA	CPC MULTIFLEX 88AO BD 810-3063	1	00ZA	CPC MULTIFLEX 88AO BD 810-3063	1	00ZA	CPC MULTIFLEX 88AO BD 810-3063
2	15FX	CPC BD ESR8 8103199	1	15FX	CPC BD ESR8 8103199	3	15FX	CPC BD ESR8 8103199
1	39FR	CPC SUCTION TRANSDUCER	2	39FR	CPC SUCTION TRANSDUCER	1	39FR	CPC SUCTION TRANSDUCER
1	82YY	CPC DISCHARGE TRANSDUCER	1	82YY	CPC DISCHARGE TRANSDUCER	1	82YY	CPC DISCHARGE TRANSDUCER
1	43FR	CPC CASE TEMP SENSOR SL	1	43FR	CPC CASE TEMP SENSOR SL	1	43FR	CPC CASE TEMP SENSOR SL
2	82YYSL	CPC TRANSDUCER 0-500 PSI SL	2	82YYSL	CPC TRANSDUCER 0-500 PSI SL	2	82YYSL	CPC TRANSDUCER 0-500 PSI SL
		NO PROGRAMMING			NO PROGRAMMING			NO PROGRAMMING

PROTO-AIRE KITS (REVIEW PROCEDURE IN ADJACENT COMMENT BOX)

	UNIT A	UNIT B	UNIT C
COND LOCATION	REMOTE	REMOTE	REMOTE
REFER	F22410	F22410	F22410
CONDENSER	LAVF 22410	LAVF 22410	LAVF 22410
FAN CNTR	0	0	0
THR	(BTUH): 455055	(MBH): 404300	(MBH): 330734
H R	(BTUH): 227527	(MBH): 202150	(MBH): 165367
ACTUAL TD (DEG)	13.4	11.9	9.8
WGT (LBS):	1555 + Receiver	1555 + Receiver	1555 + Receiver
CHG (LBS):	142.2	142.2	142.2
FPI	10	10	10
DIM:	112"L x 90.5"W x 54"H	112"L x 90.5"W x 54"H	112"L x 90.5"W x 54"H
RLA:	21.6A (MOP 35A 208/3/60)	21.6A (MOP 35A 208/3/60)	21.6A (MOP 35A 208/3/60)
FANS:	2x2 1140 RPM	2x2 1140 RPM	2x2 1140 RPM
RECEIVER:			
NOTES:			
FRAME KIT:			

NOTES: 01. CONVENIENCE SWITCH / NON-FUSED DISCONNECT KIT DOES NOT PROVIDE PROTECTION FOR UNITS. CUSTOMER RESPONSIBLE FOR UNIT PROTECTION.

03. CONDENSER TO BE ORDERED WITH FLOODING VALVES AND ISOLATION BALL VALVES.

06. RECEIVERS REQUIRED FOR KRACK REMOTE CONDENSERS.
07. LIQUID LINE FILTER/DRIER IS FACTORY SUPPLIED FIELD INSTALLED DUE TO THE LACK OF RECEIVER IN THE PROTOCOL UNIT.
08. HIGH PRESSURE CONTROL CUT OUT IS 395#, WHICH REQUIRES 450# PRESSURE RELIEF VALVES ON RECEIVER.
09. ALL PROTOCOLS ARE DESIGNED FOR LOOP PIPING APPLICATIONS ONLY.
SUCTION FILTER SHELLS AND CORES TO BE SPORLAN BRAND ONLY

TEMPERATURE CONTROL METHODS (IN PREFERRED ORDER)
A. SUCTION PRESSURE WITH SPR DRIVEN BY MOST CRITICAL TEMP FIXTURE
B. SUCTION PRESSURE
C. FIELD INSTALLED EPR ON CRITICAL LOADS.
D. T-STATS AND FIELD/CASE INSTALLED SOLENOIDS.

REV	DATE	BY	STAT	NOTES
A	12/22/20	STE		LINE SIZE CHANGES, VALVES FOR D
B	01/27/21	STE		MISC. CHANGES

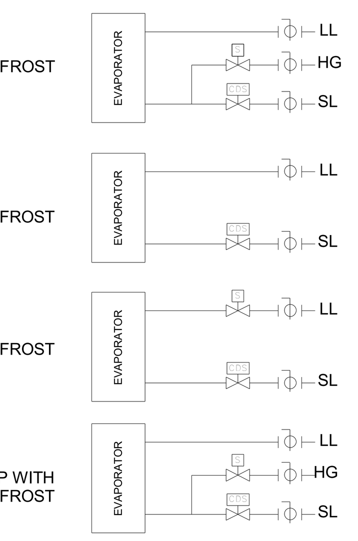
GENERAL SHEET NOTES

- 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.

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

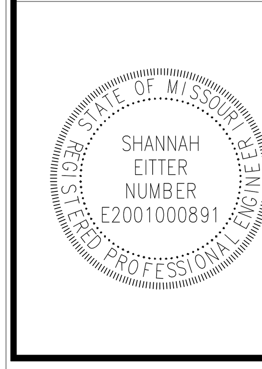
LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



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.

ENGINEER SEAL



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	DAIRY CLR	36	2	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	90	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
W/I = WALK-IN					DELI CLR	34	2	60	O

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	C2X-EP, LEP, XLEP	31	2	30	O
ESGMS, ESGSS	27	1	90	O	C5X-EP, LEP	31	2	30	O
SMG, SMGV	24	1	70	O	C6X-EP, LEP	31	2	30	O
SSGVE	24	1	70	O	D5X, D5NX-LEP	30	3	30	O
RACK					D5X-ULEP	30	4	20	O
RL SERIES - FF	-5	1	20	KG	D6X-ULEP	30	4	25	O
RL SERIES - IC	-12	1	20	KG	DD5X-ULEP	33	1	60	O
PROTOCOL					DD6X-ULEP	37	1	50	O
RL SERIES - FF	-5	1	45	E	IM-R	32	6	20	O
RL SERIES - IC	-12	1	45	E	M4X-EP	29	4	30	O
					M5X-EP	30	4	30	O
					PWWE	34	4	45	O
IC = ICE CREAM					Q1-SS	26	4	30	O
FF = FROZEN FOOD					R3HV-MF	24	4	40	O

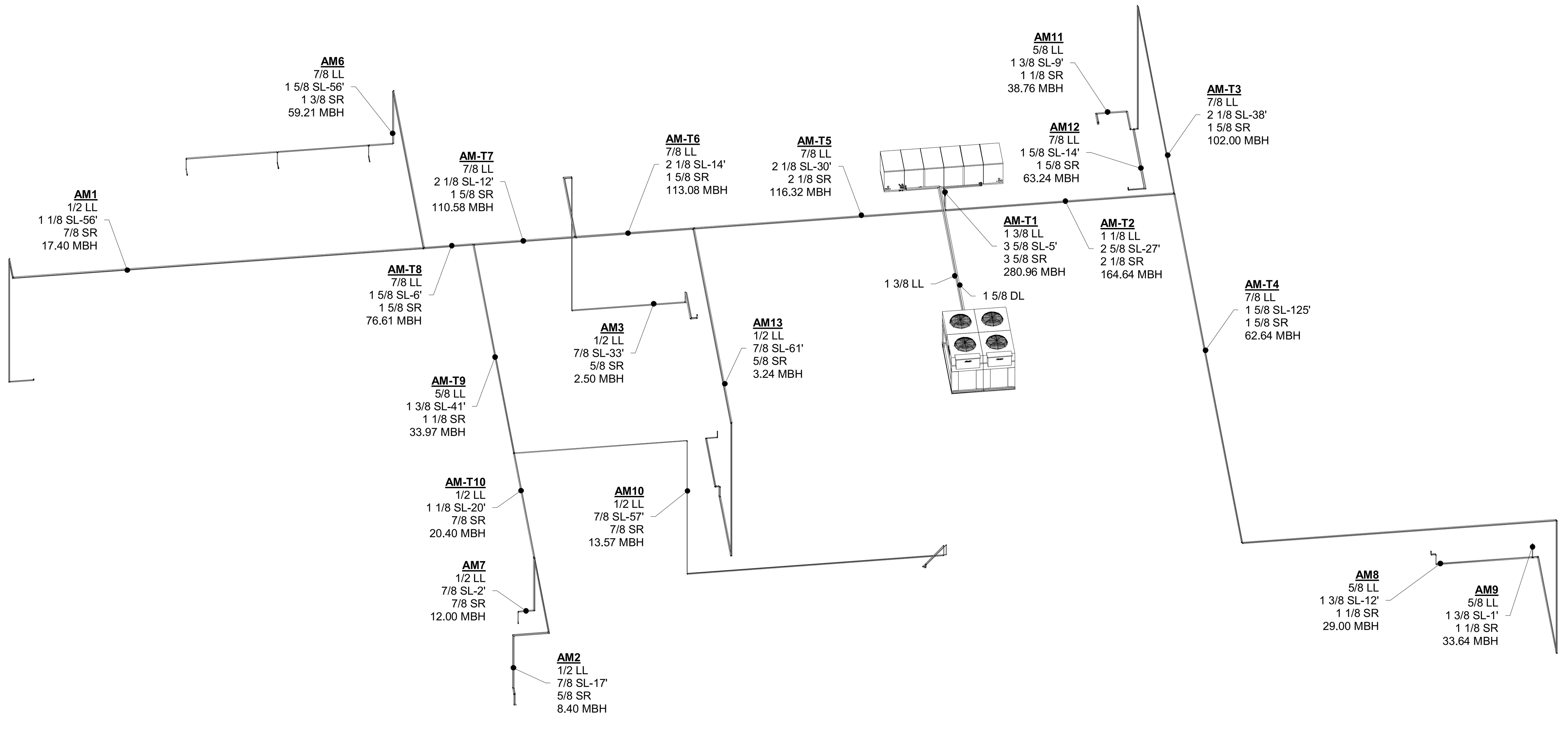
DUAL TEMP CASES LT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	DUAL TEMP CASES MT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
FW, FWE	-12	1	60	E	FW, FWE	24	1	60	E
FWG, FWEG	-12	1	60	E	FWG, FWEG	24	1	60	E

DEFROST TYPE: E = ELECT \| KG = KOOL GAS \| O = OFFTIME

HUSSMANN®
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

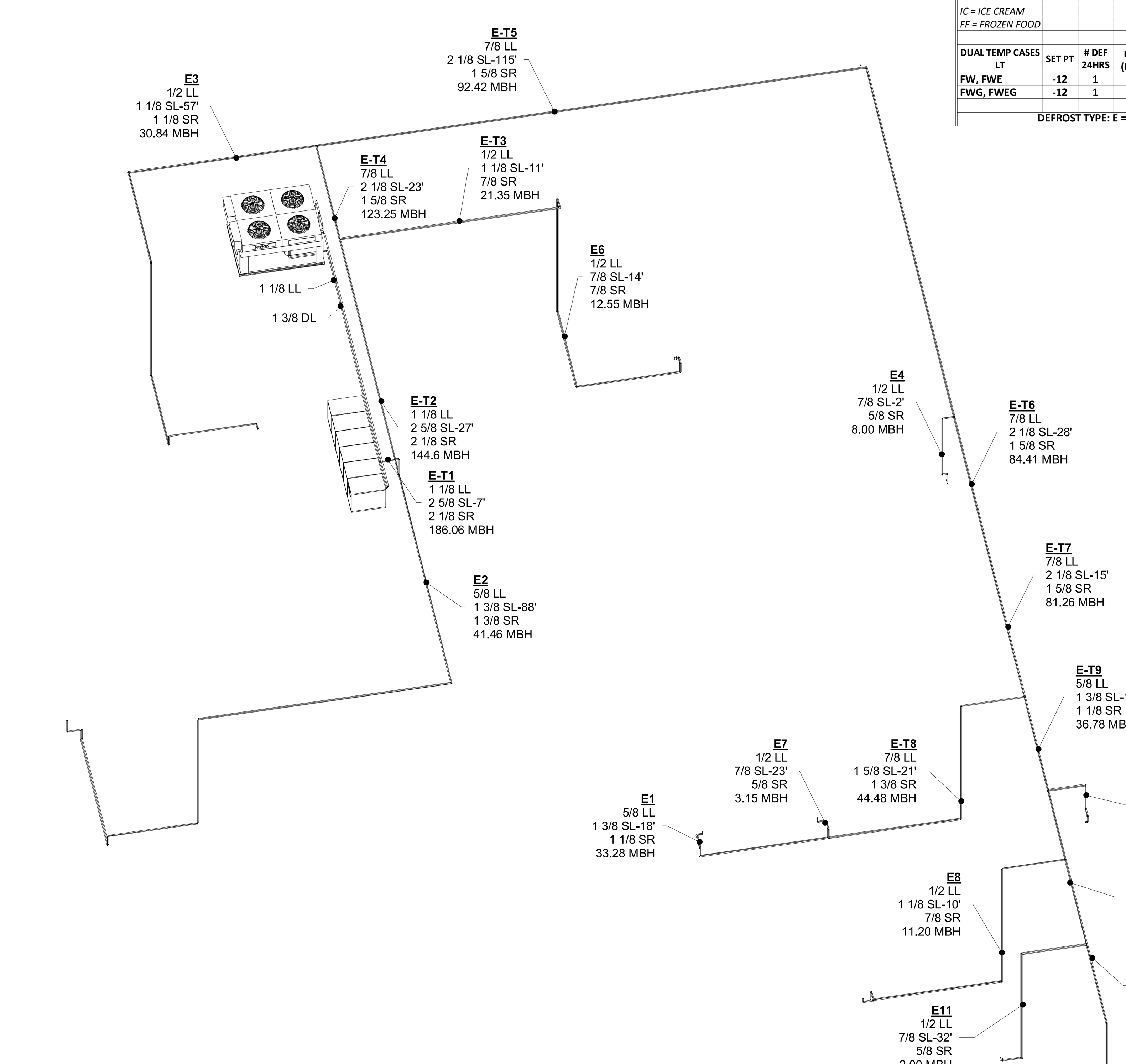
THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS PROPRIETARY INFORMATION BELONGING TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED. NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION; IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of all dimensions and refrigeration line sizing with contractors at the job site and insure that installations conform to specifications and all applicable codes.



REFRIGERATION PROTOCOL "A" LINE SIZING SCHEMATIC

SCALE: NTS



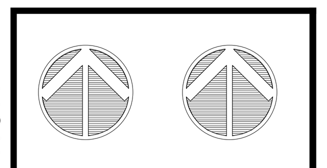
REFRIGERATION PROTOCOL "E" LINE SIZING SCHEMATIC

SCALE: NTS

LOCATION
LEE'S SUMMIT #2, MO

Hy-Vee EMPLOYEE OWNED

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935



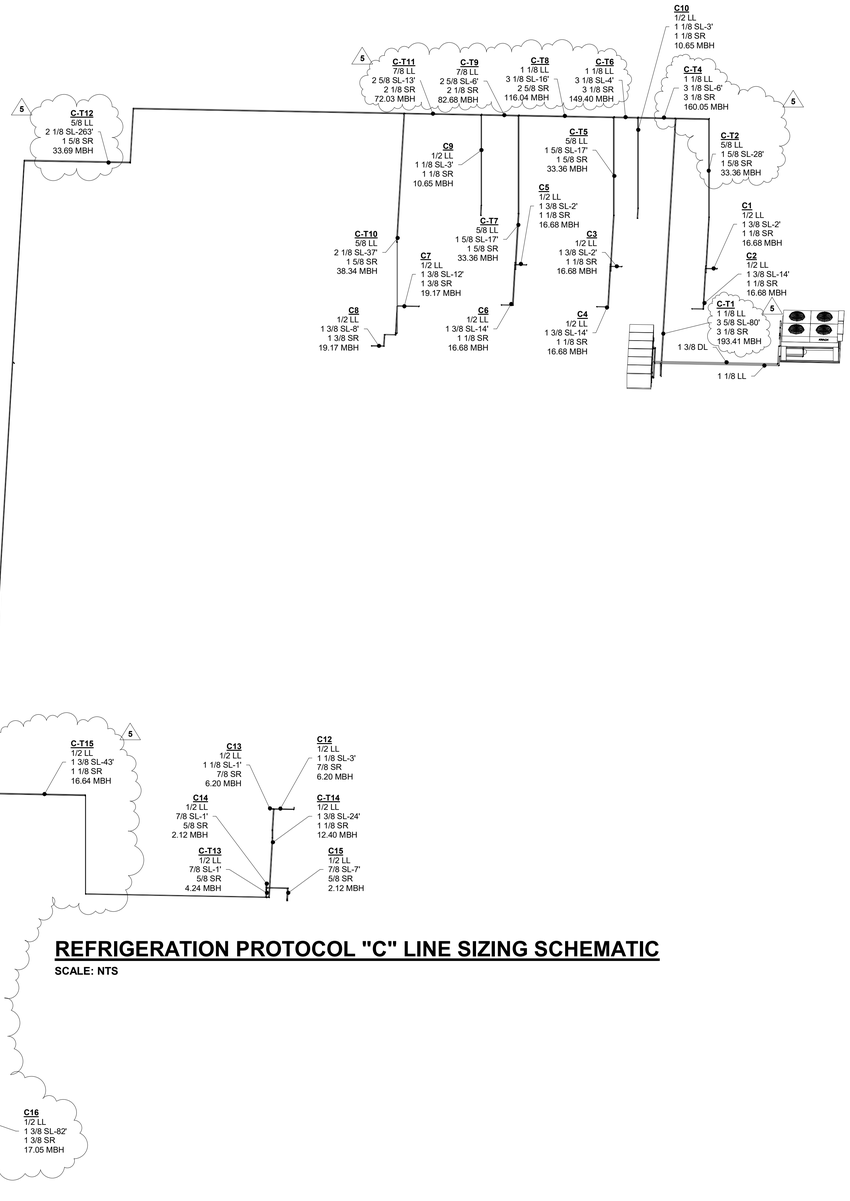
REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
6" = 1'-0"	95954

SHEET: R4.1

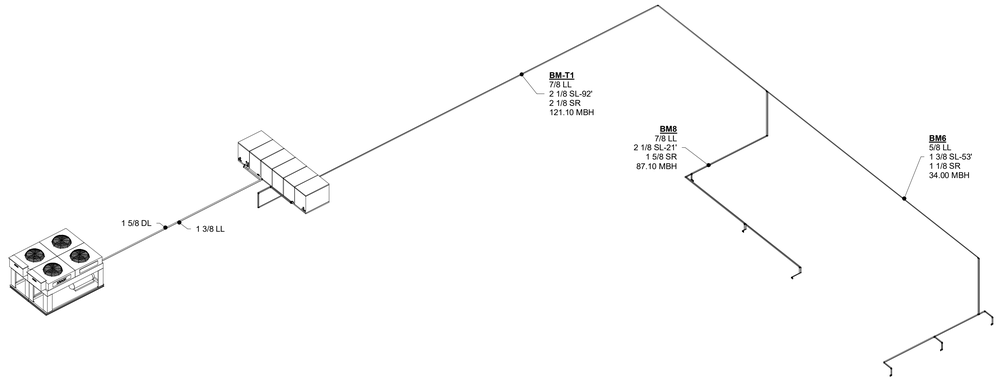
PRELIMINARY - NOT FOR CONSTRUCTION

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



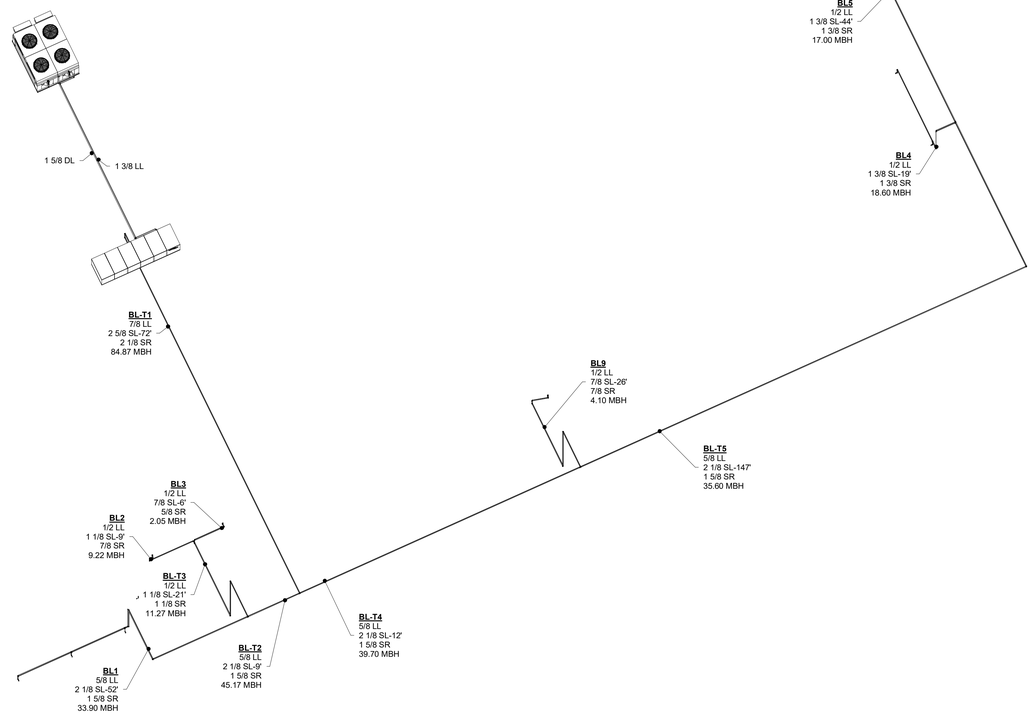
REFRIGERATION PROTOCOL "B" MEDIUM TEMP LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "C" LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "B" LOW TEMP LINE SIZING SCHEMATIC

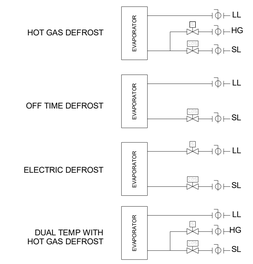
SCALE: NTS

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



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.

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	**DAIRY CLR**	36	2	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	90	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
W/I = WALK-IN					**DELI CLR**	34	2	60	O

LT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
DSFM	31	3		O	**C2K-EP, LEP, XLEP**	31	2	30	O
ESGMS, ESGSS	27	1	90	O	**C5X-EP, LEP**	31	2	30	O
SMG, SMQV	24	1	70	O	**C5X-EP, LEP**	31	2	30	O
SSGVE	24	1	70	O	**D5X, D5NX-LEP**	30	3	30	O
RACK					**D5X-ULEP**	30	4	20	O
RL SERIES - FF	-5	1	20	KG	**D6X-ULEP**	30	4	25	O
RL SERIES - IC	-12	1	20	KG	**DD5X-ULEP**	33	1	60	O
PROTOCOL					**DD6X-ULEP**	37	1	50	O
RL SERIES - FF	-5	1	45	E	**IM-R**	32	6	20	O
RL SERIES - IC	-12	1	45	E	**M4X-EP**	29	4	30	O
					M5X-EP	30	4	30	O
					PWWE	34	4	45	O
IC = ICE CREAM					**Q1-SS**	26	4	30	O
FF = FROZEN FOOD					**R3HV-MF**	24	4	40	O

DUAL TEMP CASES LT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	DUAL TEMP CASES MT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
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

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #6	03/25/21
4	ASI #7	04/20/21

ENGINEER SEAL



HUSSMANN
Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION. IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of 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) 267-2933

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

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

SHEET:

R4.2

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

COD Selection

ATLANTA REFRIGERATION
PROTOCOL UNIT LEGEND

STORE: HY-VEE
LOCATION: LEE'S SUMMIT #2
QUOTE #: 95954
JOB #: 344600

ASHRAE DESIGN CITY: KANSAS CITY, MO

CUSTOMER: 0
SALESMAN: 0
ENGINEER: SHANNAH EITTER, P.E., LEED AP

UNIT LTR	SYS #	SIZE	MODEL	DESCRIPTION	DISCH TEMP	CAP MBH	MID EVP TEMP	DEF TYPE	DEF TERM	WALK-INS EXP VALVE QTY	WALK-INS EXP VALVE MODEL	WALK-INS HEAT EXCH	CASE ELECTRICAL FAN AMP	CASE ELECTRICAL LT AMP	CASE ELECTRICAL AS AMP	CASE ELECTRICAL SUP AMP	(208/1) DEF AMP	DEF CONTROL VLVS @EVAPORATOR LIQ	DEF CONTROL VLVS SUCT	DEF CONTROL VLVS GAS	TEMP CONTROL EPR	CIRCUIT PIPING (OLP ONLY) LIQ BV	CIRCUIT PIPING SUCT BV	CIRCUIT PIPING LIQ SOL	SUCT EPR/SLND
	1	32	IM05EC	PRODUCE	30	33.28	25	OT	TIME												CDS7	5/8	1 3/8		
	2	26	TY36XR	PRODUCE	28	41.46	20	OT	TIME												CDS7	5/8	1 3/8		
	3	24	ID5SU	DELI	33	30.84	28	OT	TIME												CDS7	1/2	1 1/8		
	4	8x12x10	KR26A125	BAKERY COOLER	34	8.00	26	OT	TIME												CDS4	1/2	7/8		
	5	SPARE		BAKERY				OT	TIME												CDS4	1/2	7/8		
	6	28	GMDSVR	BAKERY		11.00	20	OT	TIME												CDS4	1/2	7/8		
	7	8	GMDSVR (EXIST)	BAKERY		3.15	20	OT	TIME												CDS2	1/2	7/8		
	8	20	Q1SS (EXIST)	DELI	26	11.20	20	OT	TIME												CDS4	1/2	1 1/8		
	9	12x16x10	GL56D225	SEAFOOD COOLER	28	14.30	21	EL	TEMP												CDS4	1/2	7/8		
	10	315 FT^2	LH26A94	PRODUCE PREP	55	20.48	30	OT	TIME												CDS7	1/2	1 1/8	E5S130	
	11	2	VICTORY (EXIST)	MEAT		2.00	20	OT	TIME												CDS2	1/2	7/8		
E						175.71	18																		

UNIT SPECS	UNIT D				OLP	UNIT E OLHAH05TK					OLP	UNIT F			OLP
	R448A	DEW COND	119		SAT	208/3/60	R448A	OLP UNIT	DEW COND	119	SAT	R448A	DEW COND	114	SAT
SUCTION GROUP						E	E	E	E						
COMPRESSOR						ZBD45KCE	ZB30KCE	ZB45KCE	ZB48KCE						
COMP QUANTITY						1	2	1	1						
DEW SUCTION TEMP						22	22	22	22						
CAPACITY (BTUH)						45,798	30,898	45,798	51,949						
POWER (KW)						5.63	3.86	5.63	6.29						
HEAT OF REJ (BTUH)						65,022	44,069	65,022	73,414						
COMPRESSOR RLA						20.20	14.10	20.20	22.80						
OIL REGULATOR															
UNLOADER															
HEAD FANS															
BREAKER/CONT															
LIQUID INJ - SL(B)															

	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD	SYSTEM	REQ	AVAIL	%	THR	DESIGN TD
					0	15	E	175.7	205.3	85.6%	291,597	15					0	10
					0	MID COND					0	MID COND					0	MID COND
						115						115						110

	208V	460V	575V	MAIN FRM DIMS**	PUMP FRAME	208V	460V	575V	MAIN FRM DIMS**	PUMP FRAME	208V	460V	575V	MAIN FRM DIMS**	PUMP FRAME
UNIT									166"L x 46"W x 34"H						
RLA				MAIN FRM WT	PUMP FRM WT				MAIN FRM WT	PUMP FRM WT				MAIN FRM WT	PUMP FRM WT
MCA									2,500						
MOPD															
AIC / SCCR RATING	10,000	10,000	10,000	AIC / SCCR RATING		10,000	10,000	10,000	AIC / SCCR RATING		10,000	10,000	10,000		

Print Date: 3/24/2021 Version: 3.6A Last Revision to this legend: 1/12/2018

ATLANTA REFRIGERATION
PROTOCOL UNIT LEGEND

STORE: HY-VEE
LOCATION: LEE'S SUMMIT #2
QUOTE / JOB #: 95954 / 344600

STORE DESIGN CONDITIONS			
VOLTAGE:	208/3/60	PAGE:	2
AMBIENT TEMP:	100	DATE:	12/15/2020
INSIDE DESIGN:	75 F/55% RH	BY:	STE
ALTITUDE:	1024 FT	COND METHOD	AIR COOLED
REFRIGERANT:	R448A	QUOTE#:	95954
		JOB#:	344600

UNIT ACCESSORIES AND MODIFICATIONS

REMOTE PANEL C #	KIT	DESCRIPTION	E #	KIT	DESCRIPTION	REMOTE PANEL A #	KIT	DESCRIPTION
UNIT TYPE: PROTOCOL OLP HE		COMPRESSOR TYPE: COPELAND SCROLL	UNIT TYPE: PROTOCOL OLP HE		COMPRESSOR TYPE: COPELAND SCROLL	UNIT TYPE: PROTOCOL HE		COMPRESSOR TYPE: COPELAND SCROLL
		PROTOCOL RACK FRAME	1	OLP6FR	FRAME OLP 6 COMP			PROTOCOL RACK FRAME
0		COMPRESSOR ASSEMBLY	1	45ZK	ASSM ZBD45KCE-TF5 208V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	2	30BK	ASM ZB30KCE-208 V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	1	45BK	ASM ZB45KCE-208 V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	1	49BK	ASSM ZB48KCE-TF5 208V	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY
0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY	0		COMPRESSOR ASSEMBLY
					NO HEAT RECLAIM KIT			
			1	OLPSC11	OLP SPLIT COND SPORLAN 1-3/8			
30	24LA	POWERLINK 2P-30A 208V	1	OLD11SL	OLP LIQUID DRIER 1.375 SL			
8	51FR	POWER SUPPLY 2P 208V			NO FACTORY RECEIVER KIT			
2	32LA	POWERLINK 2P-40A 208V	1	O200K	OLP SWITCH CONV 200A 208V			
2	16LA	POWERLINK 2P-20A 208V			NO ECONOMIZER/SUBCOOLER KIT			
1	86YP	SWITCH CONV 150A 208V			NO HOT GAS DEFROST KIT			
1	53EF	REMOTE PANEL (3) 30 POS BUSBAR						
			5	91YU	CRANKCASE HTR CNTR 208V			
			5	00CP	COMPR PROOF POINT			
			4	75PC	LPC ADJ SPST PENN			
			1	04RP	RCVR PRESS REG CDS4 .875 C SL			
			1	02HBS	WINTER CTRL CDS-9 SPORLAN SL			
			6	16BB	BREAKER 1P-20A 120V			
			2	16LB	POWERLINK 1P-20A 120V			
			2	12BB	BREAKER 1P-15A 120V			
			1	16BA	BREAKER 2P-20A 208V			
			1	51FR	POWER SUPPLY 2P 208V			
			1	24BK	BREAKER 3P-30A 208V			
			1	111FX	WIREWAY			
			1	112FX	JUNCTION BOX			
			1	90FP	BREAKER & FAN KILL RELAY 2P-15A 208V			
			1	24LA	POWERLINK 2P-30A 208V			
			1	68CP	CPC MULTIFLEX 168 CIO BD 810-3066			
			1	16CP	CPC MULTIFLEX 16AI BOARD 810-3013			
			1	00ZA	CPC MULTIFLEX 88AO BD 810-3063			
2	08CP	CPC BD 8RO 810-3006	1	16CP	CPC MULTIFLEX 16AI BOARD 810-3013			
			2	15FX	CPC BD ESR8 8103199			
			1	39FR	CPC SUCTION TRANSDUCER			
			1	82YY	CPC DISCHARGE TRANSDUCER			
			1	43FR	CPC CASE TEMP SENSOR SL			
			2	82YYSL	CPC TRANSDUCER 0-500 PSI SL			
		NO PROGRAMMING			NO PROGRAMMING			NO PROGRAMMING

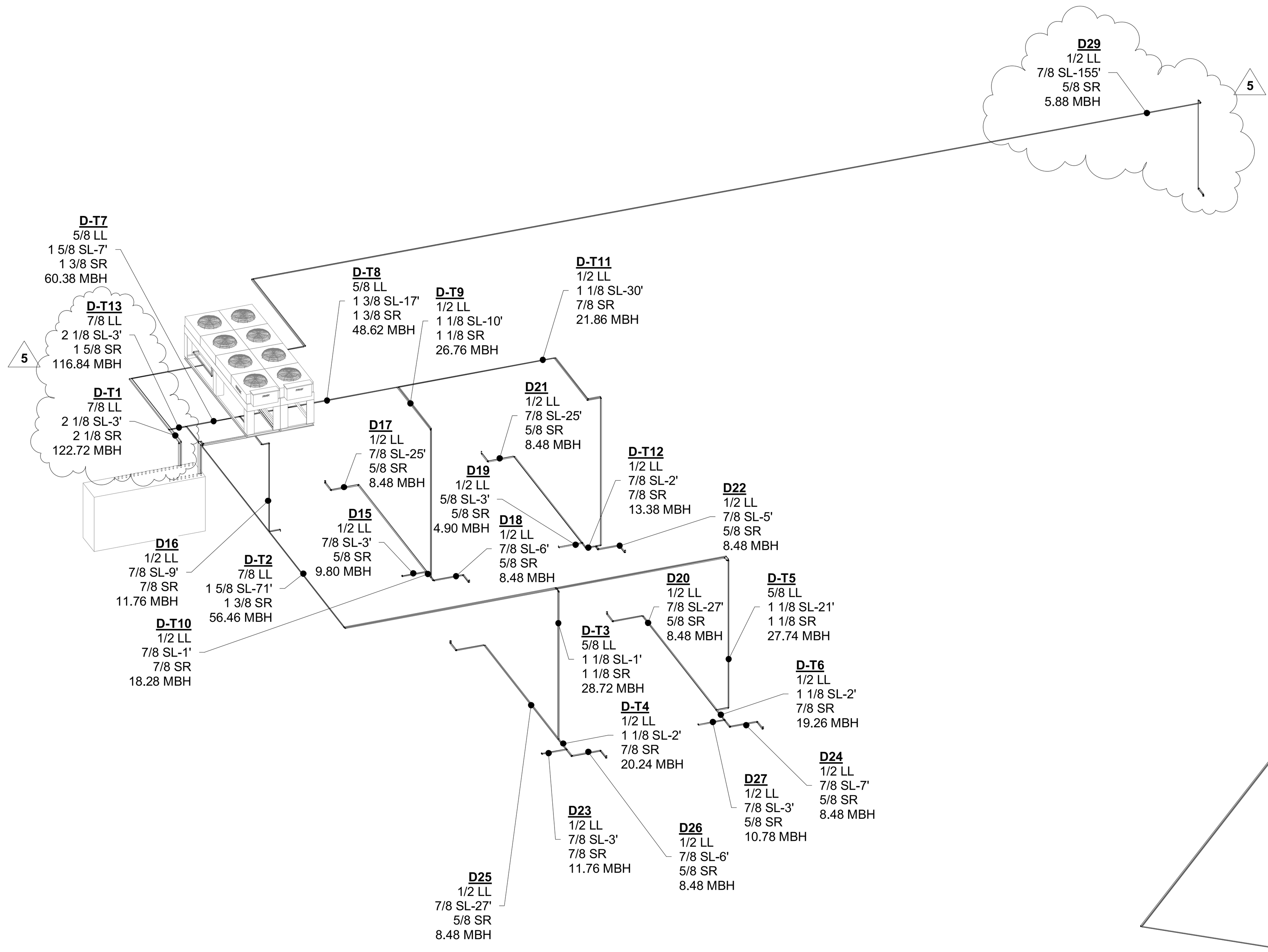
PROTO-AIRE KITS (REVIEW PROCEDURE IN ADJACENT COMMENT BOX)

UNIT REMOTE PANEL C		UNIT E		UNIT REMOTE PANEL A	
COND LOCATION		COND LOCATION	REMOTE	COND LOCATION	
REFER		REFER	F22310	REFER	
CONDENSER		CONDENSER	LAVF 22310	CONDENSER	
FAN CNTR		FAN CNTR		FAN CNTR	0
THR (MBH):	0	THR (MBH)	291597	THR (MBH)	0
H R (MBH):	0	H R (MBH):	145798	H R (MBH):	0
ACTUAL TD (DEG)		ACTUAL TD (DEG)	10.4	ACTUAL TD (DEG)	
WGT (LBS):		WGT (LBS):	1437 + Receiver	WGT (LBS):	
CHG (LBS):		CHG (LBS):	106.6	CHG (LBS):	
FPI		FPI	10	FPI	
DIM:		DIM:	112"L x 90.5"W x 54"H	DIM:	
RLA:		RLA:	21.6A (MOP 35A 208/3/60)	RLA:	
FANS:		FANS	2x2 1140 RPM	FANS	
RECEIVER:		RECEIVER:		RECEIVER:	
NOTES:		NOTES:		NOTES:	
FRAME KIT:		FRAME KIT:		FRAME KIT:	

NOTES: 01. CONVENIENCE SWITCH / NON-FUSED DISCONNECT KIT DOES NOT PROVIDE PROTECTION FOR UNITS. CUSTOMER RESPONSIBLE FOR UNIT PROTECTION.
0
03. CONDENSER TO BE ORDERED WITH FLOODING VALVES AND ISOLATION BALL VALVES.
0
0
06. RECEIVERS REQUIRED FOR KRACK REMOTE CONDENSERS.
07. LIQUID LINE FILTER/DRIER IS FACTORY SUPPLIED FIELD INSTALLED DUE TO THE LACK OF RECEIVER IN THE PROTOCOL UNIT.
08. HIGH PRESSURE CONTROL CUT OUT IS 395#, WHICH REQUIRES 450# PRESSURE RELIEF VALVES ON RECEIVER.
09. ALL PROTOCOLS ARE DESIGNED FOR LOOP PIPING APPLICATIONS ONLY.
SUCTION FILTER SHELLS AND CORES TO BE SPORLAN BRAND ONLY

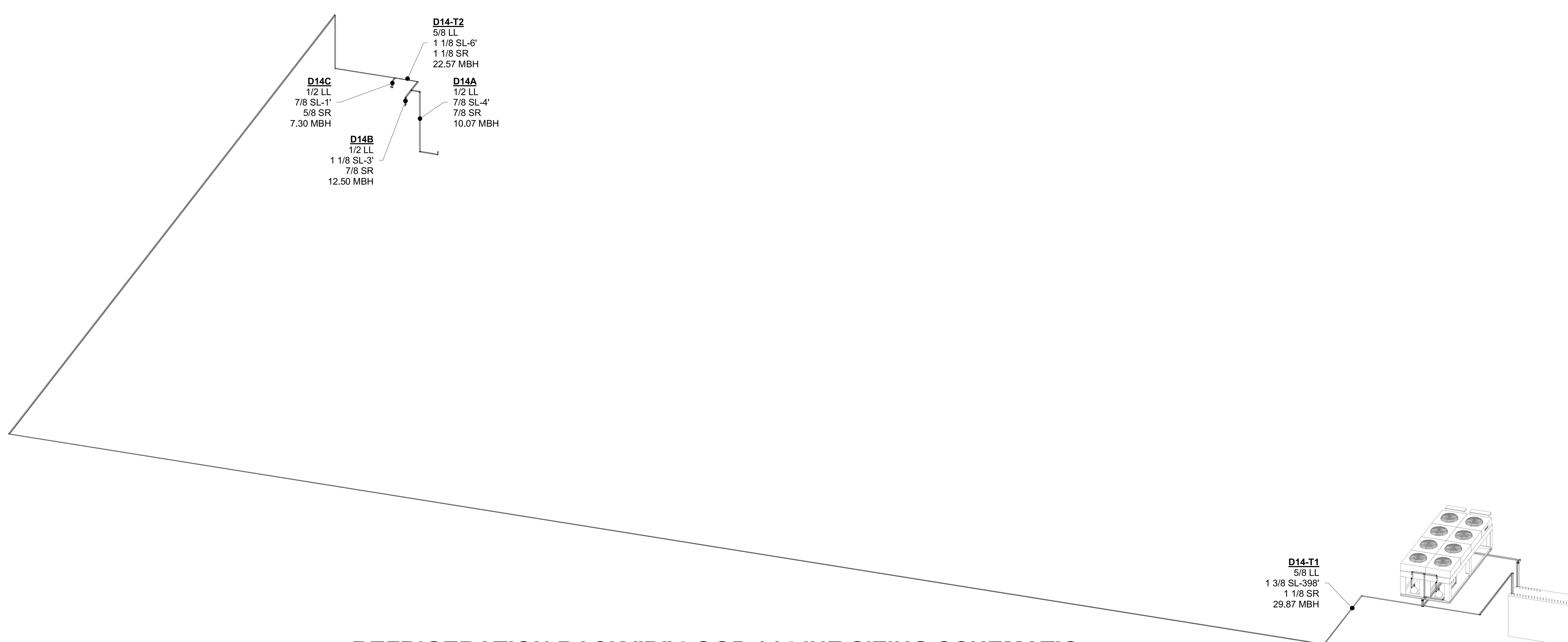
TEMPERATURE CONTROL METHODS (IN PREFERRED ORDER):
A. SUCTION PRESSURE WITH SPR DRIVEN BY MOST CRITICAL TEMP FIXTURE
B. SUCTION PRESSURE
C. FIELD INSTALLED EPR ON CRITICAL LOADS.
D. THERMOSTATS AND FIELD/CASE INSTALLED SOLENOIDS.

REV	DATE	BY	STAT	NOTES
A	12/22/20	STE		LINE SIZE CHANGES, VALVES FOR D
B	01/27/21	STE		MISC. CHANGES



REFRIGERATION RACK "D" LOOP 15 LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION RACK "D" LOOP 14 LINE SIZING SCHEMATIC

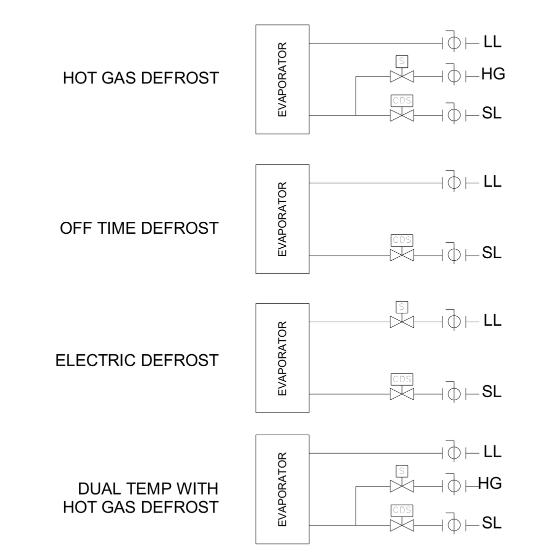
SCALE: NTS

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



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.

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	DAIRY CLR	36	2	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	90	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
W/I = WALK-IN					DELI CLR	34	2	60	O
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	C2X-EP, LEP, XLEP	31	2	30	O
ESGMS, ESGSS	27	1	90	O	C5X-EP, LEP	31	2	30	O
SMG, SMGV	24	1	70	O	C6X-EP, LEP	31	2	30	O
SSGVE	24	1	70	O	D5X, D5NX-LEP	30	3	30	O
RACK					D5X-ULEP	30	4	20	O
RL SERIES - FF	-5	1	20	KG	D6X-ULEP	30	4	25	O
RL SERIES - IC	-12	1	20	KG	DD5X-ULEP	33	1	60	O
PROTOCOL					DD6X-ULEP	37	1	50	O
RL SERIES - FF	-5	1	45	E	IM-R	32	6	20	O
RL SERIES - IC	-12	1	45	E	M4X-EP	29	4	30	O
					M5X-EP	30	4	30	O
					PWWE	34	4	45	O
IC = ICE CREAM					Q1-SS	26	4	30	O
FF = FROZEN FOOD					R3HV-MF	24	4	40	O
DUAL TEMP CASES LT	**SET PT**	**# DEF 24HRS**	**DUR (MIN)**	**DEF TYPE**	**DUAL TEMP CASES MT**	**SET PT**	**# DEF 24HRS**	**DUR (MIN)**	**DEF TYPE**
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

REVISION		DATE BY
1	2020 PRODUCE CASE REMODEL	08/28/20
2	ASI #4	02/08/21
3	ASI #6	03/25/21
4	ASI #7	04/20/21

ENGINEER SEAL



Hussmann Corporation
13770 Ramona Avenue
Chino, CA 91710
(909) 590-4910
(909) 590-5113 Fax

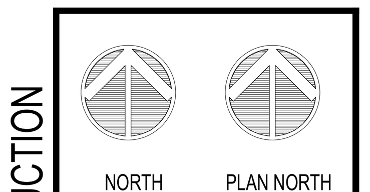
THIS DOCUMENT IS THE COPYRIGHTED WORK OF HUSSMANN CORPORATION. IT CONTAINS PROPRIETARY INFORMATION BELONGING TO HUSSMANN CORPORATION. SAID INFORMATION SHALL BE USED FOR THE PURPOSE FOR WHICH IT IS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED. NOR SHALL SUCH INFORMATION BE FURNISHED, IN WHOLE OR IN PART TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF HUSSMANN CORPORATION; IT SHALL BE RETURNED UPON REQUEST. © HUSSMANN CORPORATION 2014

NOTICE OF NONRESPONSIBILITY
All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store fixtures and its operating requirements 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 accuracy of 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

EMPLOYEE OWNED

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935



PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
6" = 1'-0"	95954

SHEET:
R4.3

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