RELEASE FOR CONSTRUCTION
AS NOTED FOR IN ANS REVIEW
APPLICATION DATED
LEE'S SUMMIT, MISSOURI
04/22/2021

Joe Frogge

HY-VEE INC.

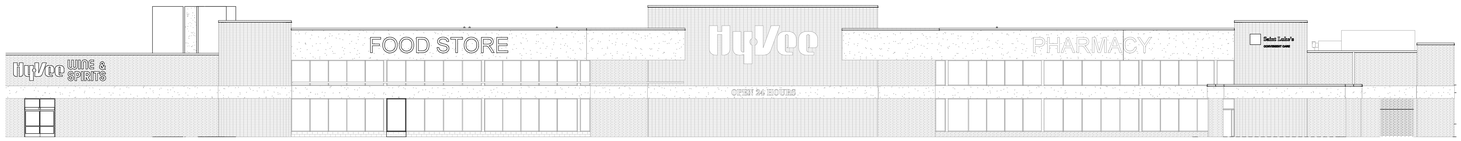
5820 Westown Parkway West Des Moines, Iowa 50266

Hy-Vee®
EMPLOYEE OWNED

PROJECT LOCATION:

LEE'S SUMMIT, MO #2

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



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

STATE OF MISSOURI
RICHARD A. MAJORS, JR.
NUMBER A-0172011 ARC
REGISTERED ARCHITECT
04/21/21

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.

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.

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MECHANICAL, ELECTRICAL, PLUMBING ENGINEER
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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.

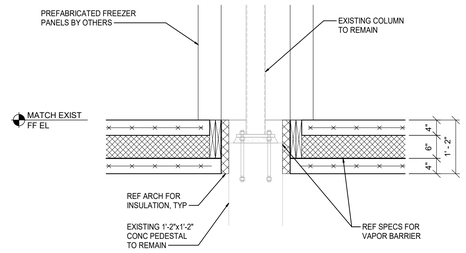
MASONRY:

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.

NOTE:
REF 7-S5.0 FOR INFORMATION SHOWN BUT NOT NOTED.



1 NEW FREEZER SLAB AT EXISTING COL
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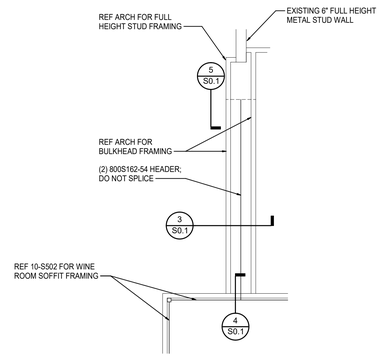
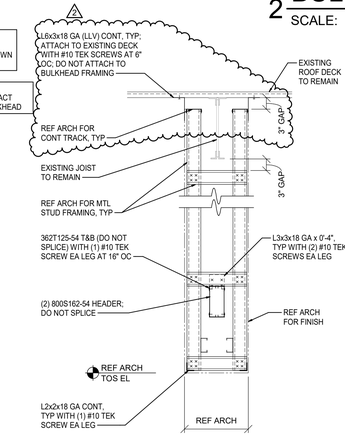


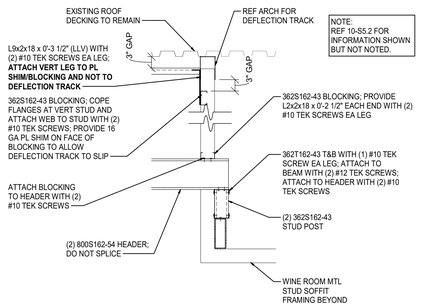
2 BULKHEAD PLAN
SCALE: 1/4" = 1'-0"

NOTE:
REF ARCH FOR INFORMATION SHOWN BUT NOT NOTED.

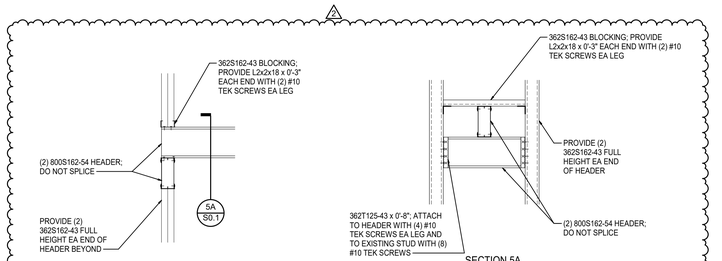
NOTE:
REF ARCH FOR EXACT LOCATION OF BULKHEAD



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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT PLANS
SUBMIT, AS NOTED

REVISION

1	ASI #5	04/22/2021	BJH
2	ASI #7	04/16/21	BJH

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
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816-421-4200 · WWW.JBAENGR.COM
JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL

04/15/21

LOCATION
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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO RELEASE FOR CONSTRUCTION
SUBMIT, AS NOTED

REVISION		BY
1	ASI #2	04/22/20 21/08/21
2	ASI #3	01/26/21
3	ASI #5	03/19/21
4	ASI #7	04/16/21

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JBA PROJ #: 19315 - JSH

PROFESSIONAL SEAL

STATE OF MISSOURI
BART HALVERSON
NUMBER 2010038961
REGISTERED PROFESSIONAL ENGINEER
04/15/21

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TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

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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"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		BY
1	ASI #4	04/22/20
2	ASI #5	03/19/21
3	ASI #7	04/16/21

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JBA PROJ #: 19315 – JSH

PROFESSIONAL SEAL

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

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FAX: (515) 267-2935

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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

4/15/2021 6:59:35 AM

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		
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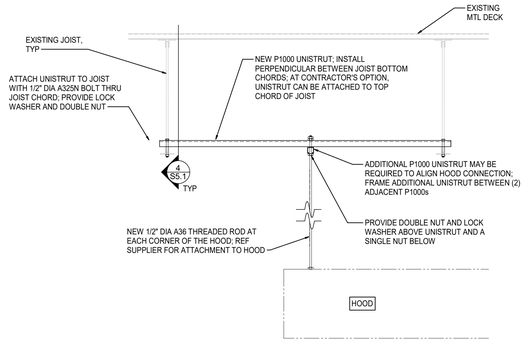
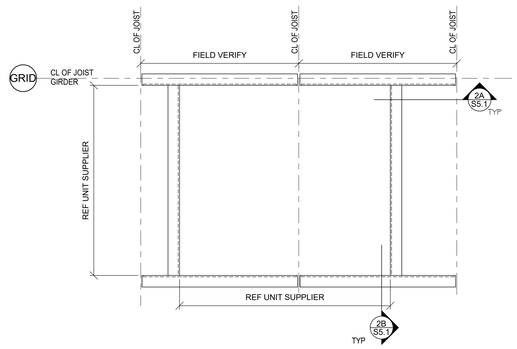
2	ASI #4	02/05/21
3	ASI #7	04/16/21

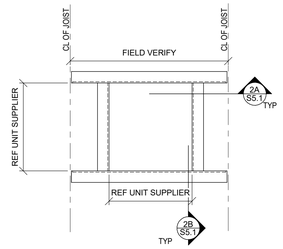


1 SUSPENDED HOOD SUPPORT

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



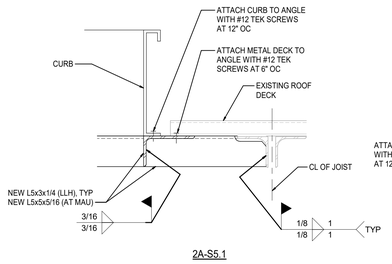
PLAN VIEW-RTU



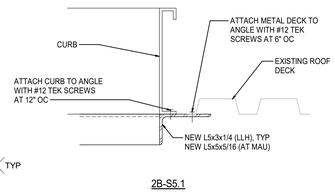
PLAN VIEW-EF

2 RTU/EXHAUST FAN SUPPORT FRAMING

SCALE: NTS



2A-S5.1



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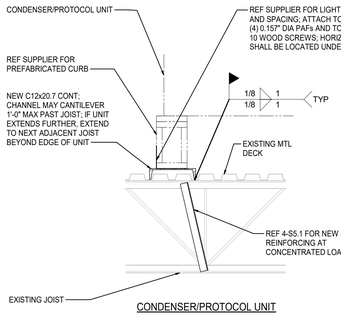
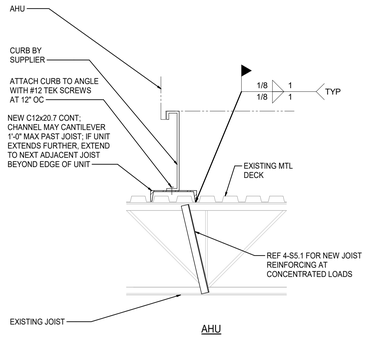
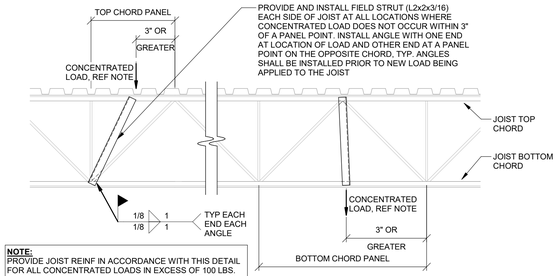


CONDENSER/PROTOCOL UNIT



AHU



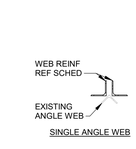
NOTE:
PROVIDE JOIST REINF IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS IN EXCESS OF 100 LBS. WHERE MORE THAN ONE CONCENTRATED LOAD EXISTS WITHIN A CHORD PANEL AND THE SUM OF THOSE LOADS EXCEEDS 100 LBS, PROVIDE JOIST REINFORCEMENT AS DETAILED SUCH THAT THE SUM OF THE LOADS WITHIN THE REMAINING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

3 CONDENSER/PROTOCOL UNIT/AHU SUPPORT FRAMING

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

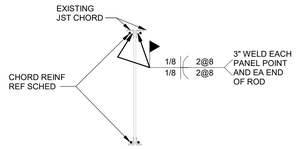
4 JOIST REINFORCING AT CONCENTRATED LOAD

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

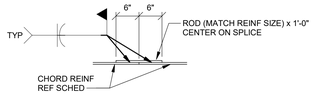


SINGLE ANGLE WEB

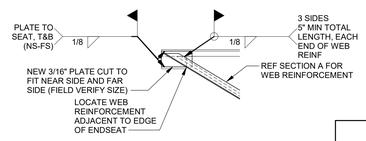
SECTION 5A - WEB REINF



SECTION 5B - CHORD REINF



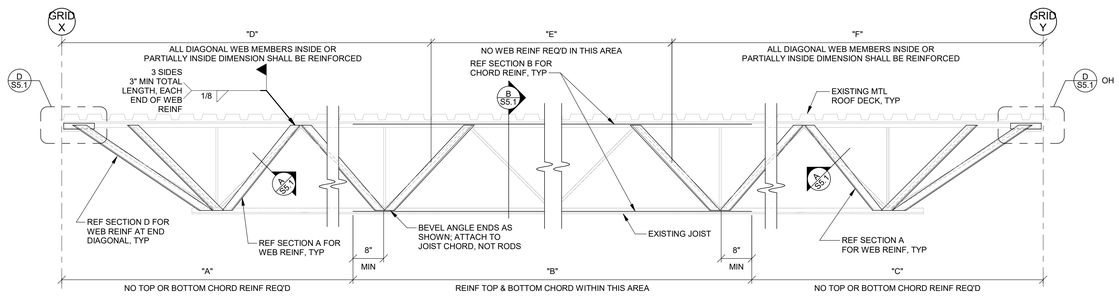
SECTION 5C - CHORD REINF SPLICE



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.

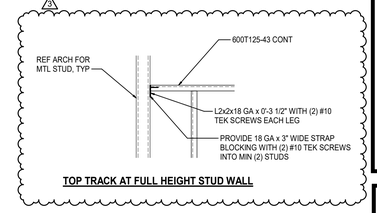


JOIST REINFORCING SCHEDULE

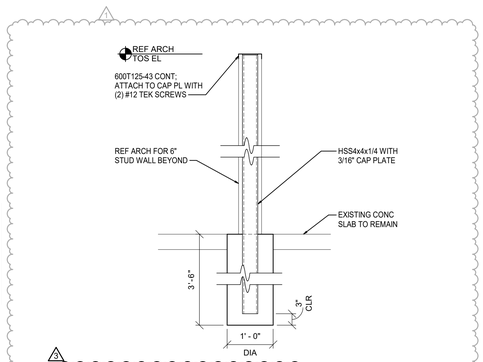
JOIST REINF MARK	CHORD REINF	WEB REINF	"A"	"B"	"C"	"D"	"E"	"F"	GRID X	GRID Y	NOTES
JR1	-	(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	0' - 0"	0' - 0"	E	F	1,2,3,6,7
JR2	-	(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	0' - 0"	0' - 0"	F	E	1,2,3,6,7
JR3		(2) L2x2x3/16	0' - 0"	0' - 0"	0' - 0"	10' - 0"	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

5 JOIST REINFORCEMENT

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



TOP TRACK AT FULL HEIGHT STUD WALL



DSW/PARTIAL HEIGHT WALL SUPPORT POST

6 3/4" = 1'-0"

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PROFESSIONAL SEAL

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

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

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S5.1

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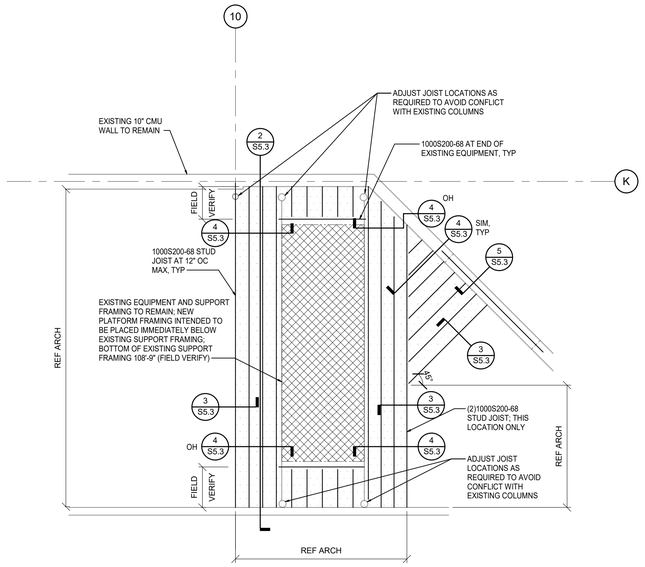
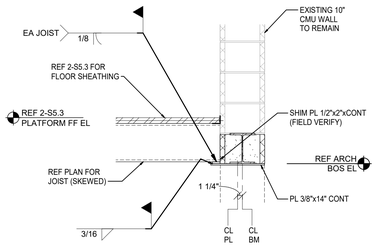


1 PLATFORM FRAMING PLAN

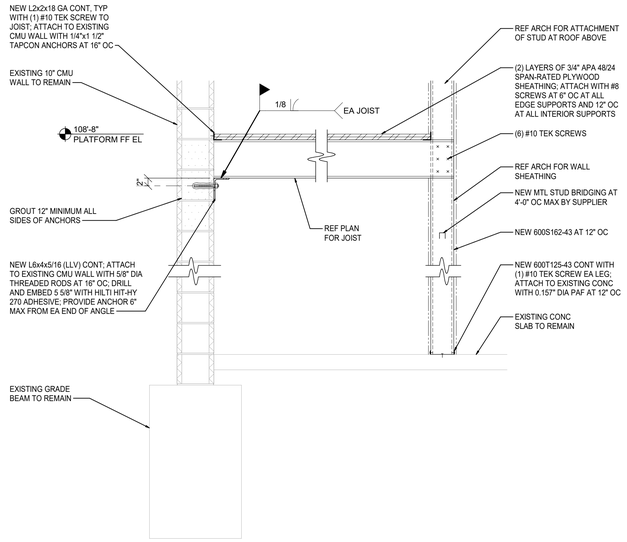
SCALE: 1/4" = 1'-0"

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



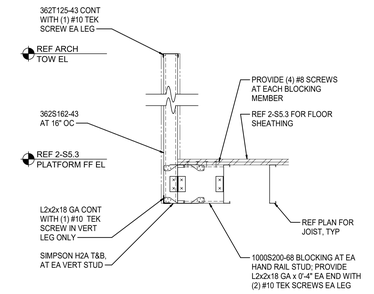
5 PLATFORM FRAMING

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



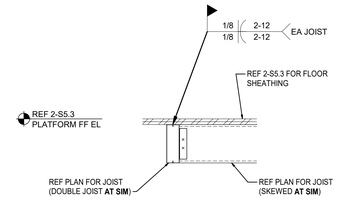
2 PLATFORM FRAMING

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



3 PLATFORM HAND RAIL

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



4 PLATFORM FRAMING

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

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STRUCTURAL SECTIONS & DETAILS

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Author	10/20/2020
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3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

1 FIXTURE AND EQUIPMENT PLAN

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

4/21/2021 9:35:31 AM

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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	

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DEMOLITION NOTES

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.

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.

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

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

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

5'-0"

1'-6"

TYP

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

REVISION

2	ASI #2	04/22/202
5	ASI #5	03/19/21
6	ASI #7	04/16/21

BY

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ARCHITECTURAL DEMOLITION PLAN

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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

EXISTING UNDERSLAB TUNNEL SHOWN TO REMAIN

CAP ALL REFRIGERATION AND RETURN AIR OPENINGS, TYP

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

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6	ASI #7	04/16/21

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DEMOLITION SLAB AND FLOOR FINISH PLAN

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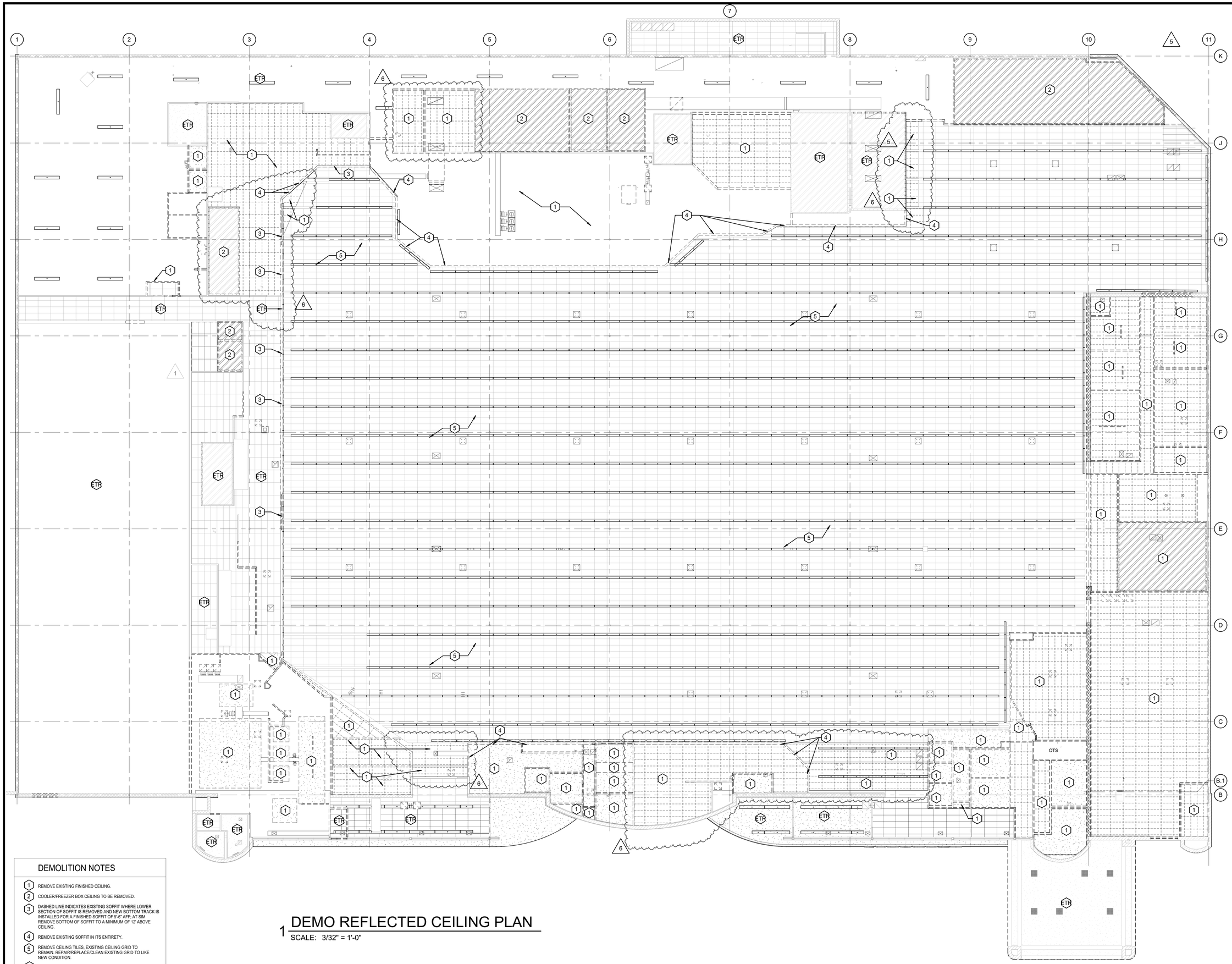

DEMOLITION NOTES

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"

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DEMOLITION REFLECTED CEILING PLAN

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1	ASI #1	04/22/20
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3	ASI #3	01/08/21
4	ASI #4	01/25/21
5	ASI #5	02/05/21
6	ASI #7	03/19/21
		04/16/21

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.

PLY ON STUD WALLS IN BOH TO EXTEND 8' AFF, REF 6 / A3.16

WALLS EXTEND TO DECK

SEE SHEET A2.5 FOR WALL TYPES

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

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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

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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.

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

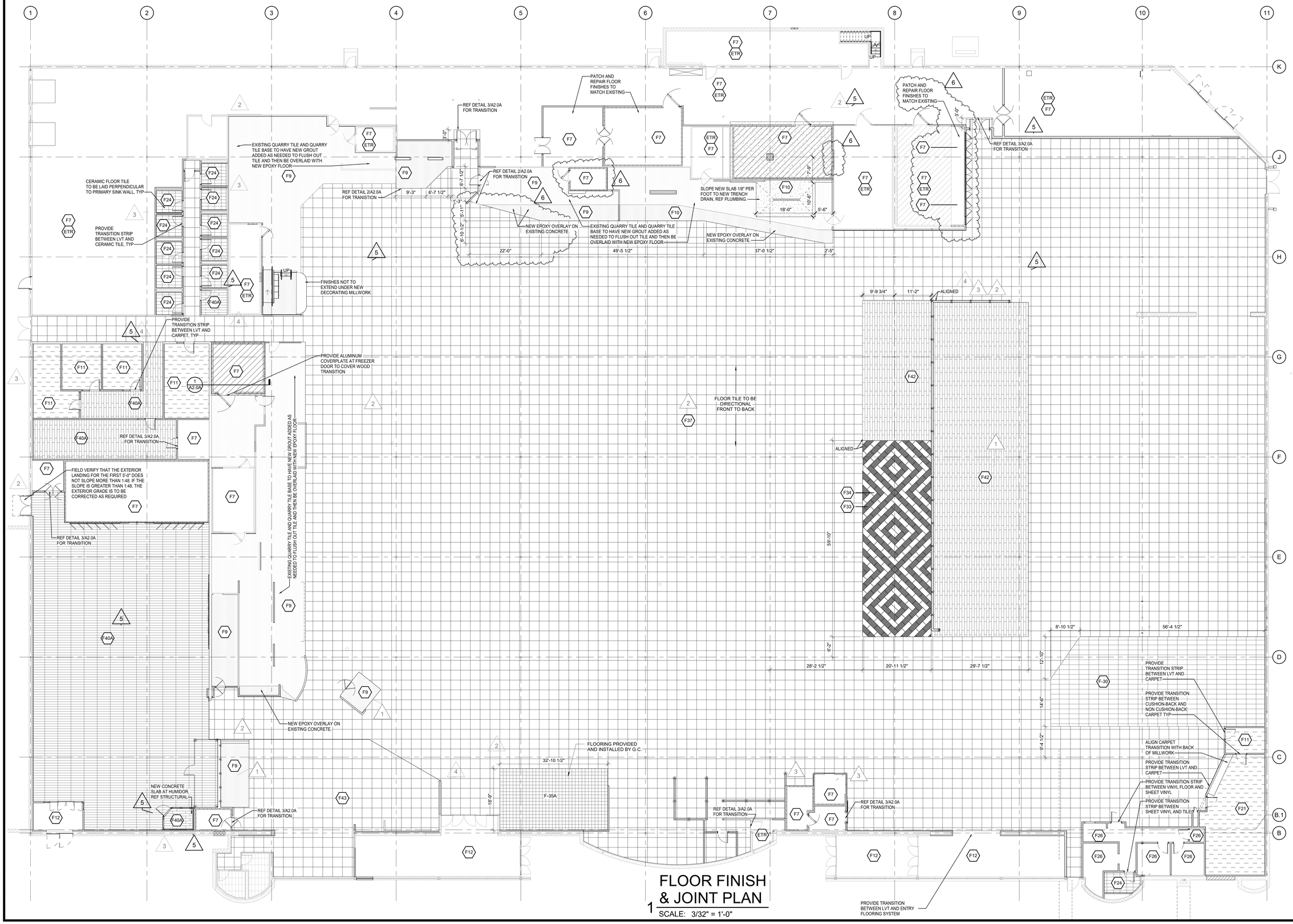
FLOOR DESIGNATED IN THIS AREA AS EPOXY FLOOR. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL. - CUT CONTROL JOINTS @ 12' O.C. MAXIMUM EACH DIRECTION

FLOOR DESIGNATED IN THIS AREA AS LVT. SEE FLOOR FINISH PLAN FOR SPECIFIC FLOORING DESIGNATION. CONTRACTOR TO VERIFY DEPTH OF FLOOR FINISH MATERIAL.

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"

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		
1	ASI #1	01/12/20
2	ASI #2	01/08/21
3	ASI #3	01/25/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

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As indicated	62930547

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A2.0

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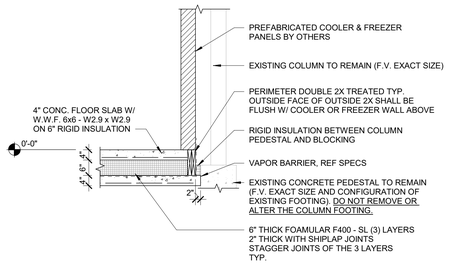
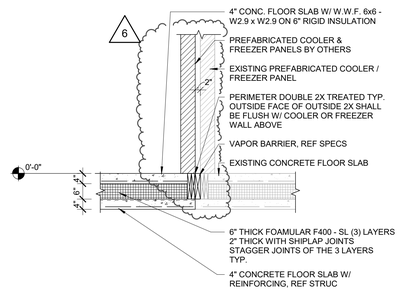
04/22/2021

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



8 INSULATED FLOOR SECTION

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

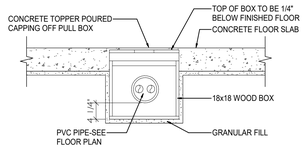


7 INSULATED FLOOR SECTION

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

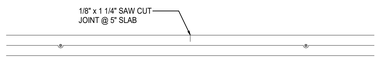
6 INSULATED FLOOR SECTION

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



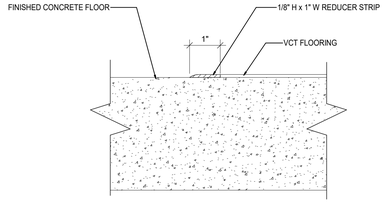
5 PVC TRENCH JUNCTION

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



4 CONCRETE SLAB CONTROL JOINT

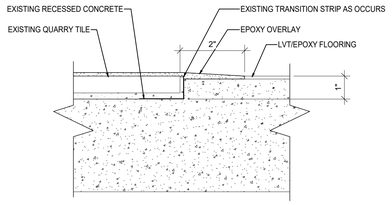
SCALE: 1" = 1'-0"



3 VCT TRANSITION

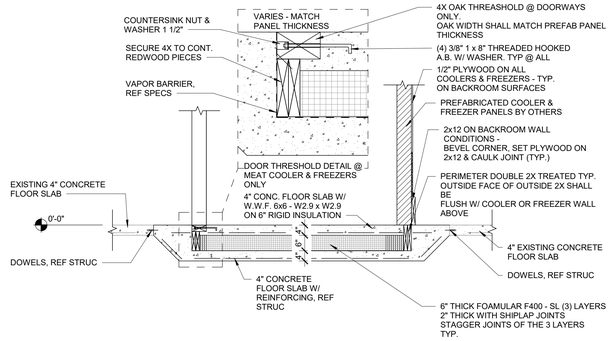
SCALE: 6" = 1'-0"

2



2 EPOXY TRANSITION @ EXISTING TILE

SCALE: 6" = 1'-0"



1 INSULATED FLOOR SECTION

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

brr

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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'-0" 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	48" 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 FLAMK, SM.	31"H x 39"W	PVC, PRINTED. WILSONART SKYLINE WALNUT.	CUSTOMER SERVICE BACK WALL
CUST-1.2	SPORT GRAPHICS	3 PANELS HANGING FROM FLAMK, 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-2.3	SPORT GRAPHICS	CUSTOMER SERVICE - SMALL	10.5"H	VINYL LETTERS	WALL BEHIND CUSTOMER SERVICE COUNTER
CUST-2.3	SPORT GRAPHICS	CUST. SERVICE HANGING - LARGE	1'-9" X 5'-9"	VINYL LETTERS ON FROSTED ACRYLIC PANEL	HANGING ABOVE CUSTOMER SERVICE COUNTER
CUST-2.4	SPORT GRAPHICS	CUST. SERVICE HANGING - SMALL	1'-0" 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'-6" 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"	CART GUARD BUMPER	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	2'-0" X 4'-8"	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' 2" L X 2' 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'-0" 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'-0" 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'-0" 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 PX5 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 AWAY FROM 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 DESIGNED SINCE 1930	18"H X 48"L FROM THE ARCH	CUSTOM PANELIZED WOOD SLAT SYSTEM	APPLIED TO SEAFOOD BULKHEAD, CONTACT: ANDREW COOPER 646-960-8228
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' 6" 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' 6"	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	4' X 17' 1"		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 #609 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 DOTT: 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 DOTT: 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

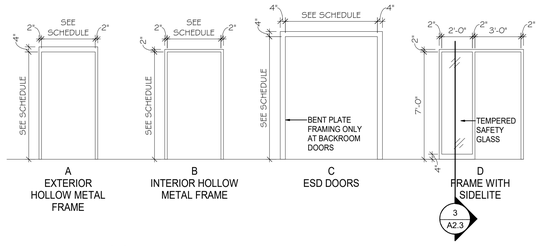
KEY	TYPE	MANUFACTURER	SIZE	COLOR	NOTES	LOCATION
C1	ACOUSTICAL TILE	ARMSTRONG USG	2' X 4'	FINE FISSURED #1729 - WHITE RADAR CLIMAPLUS #2410 - WHITE	GRID: USG-DX/DXL ARMSTRONG-G-30 PRELUDE	SALES FLOOR, GENERAL OFFICES, CORRIDORS
C2	VINYL FACED SHEETROCK	NOVA CEILINGS ALLIED CONSTRUCTION SERVICES JAMES 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		
		NATIONAL GYPSUM	2' X 4'	GRIDSTONE GYPSUM CEILING PANELS: WHITE		
C7	VINYL FACED SHEETROCK	USG	2' X 4'	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 0" 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: 818-518-7807 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, 854441		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: 818-518-7807 TO BE ORDERED BY CONTRACTOR		GOH 11579500	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

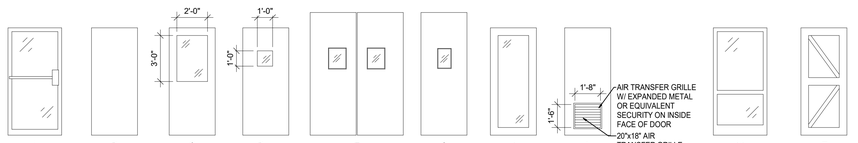
MISCELLANEOUS

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	FABRIC	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 G



A EXTERIOR HOLLOW METAL FRAME | B INTERIOR HOLLOW METAL FRAME | C ESD DOORS | D FRAME WITH SIDELITE

FRAME ELEVATIONS



A EXT/INT ALUM/GLASS | B FLUSH H.M. OR OAK | C HALF GLASS FLUSH H.M. OR OAK | D VISION LITE (H.M.) | F DBL. SWINGING DOORS (ESD) | G SWINGING DOOR (ESD) | J FULL GLASS FLUSH H.M. OR OAK | L FLUSH H.M. OR OAK | M EXT/INT AUTO GLASS | R BARN DOOR

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

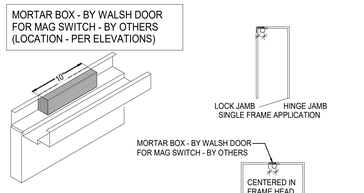
ESD.6 ELIASON MODEL #LWP-6 CASUAL DINING - DISHWASH AREA (NON-LOCKING); FINISH COLOR: PLAM 19 (WALNUT HEIGHTS)

DOOR AND FRAME SCHEDULE

OPENING NUMBER	LOCATION	DOORS TYPE	DOORS NOMINAL SIZE W	DOORS NOMINAL SIZE H	DOORS 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

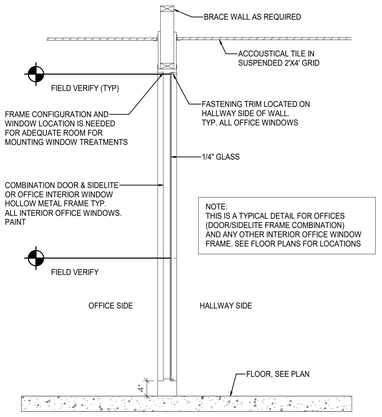
REMOVE DOOR 4

REMOVE DOOR 59, 60, 61, & 62



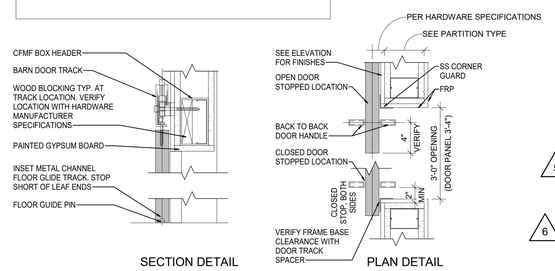
MORTAR BOX DETAIL AT EXTERIOR DOORS

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



DOOR/WINDOW FRAME SECTION-TYPICAL

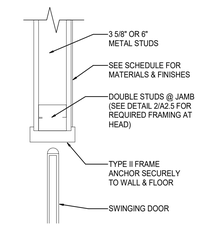
3 SCALE: 3/4" = 1'-0"



BARN DOOR DETAIL

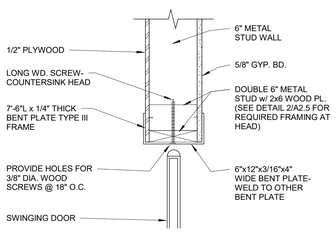
2 SCALE: 1 1/2" = 1'-0"

NOTE: REFERENCE DETAIL C FOR SILL CONDITION AT JAMBS



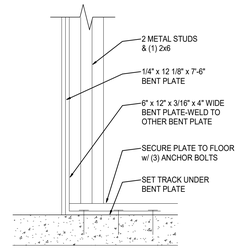
JAMB HEAD SIMILAR

A SCALE: 1" = 1'-0"



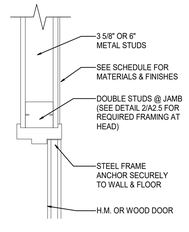
JAMB HEAD SIMILAR

B SCALE: 1" = 1'-0"



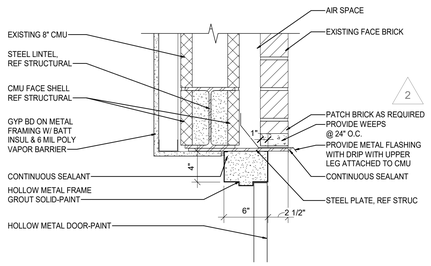
SILL DETAIL

C SCALE: 1" = 1'-0"



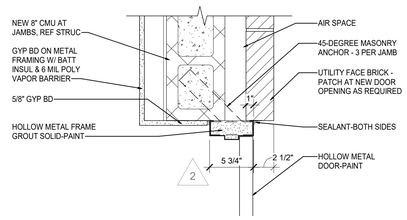
JAMB HEAD SIMILAR

D SCALE: 1" = 1'-0"



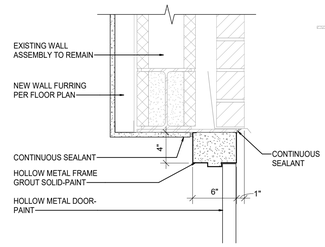
HEAD DETAIL AT NEW OPENING

H SCALE: 1" = 1'-0"



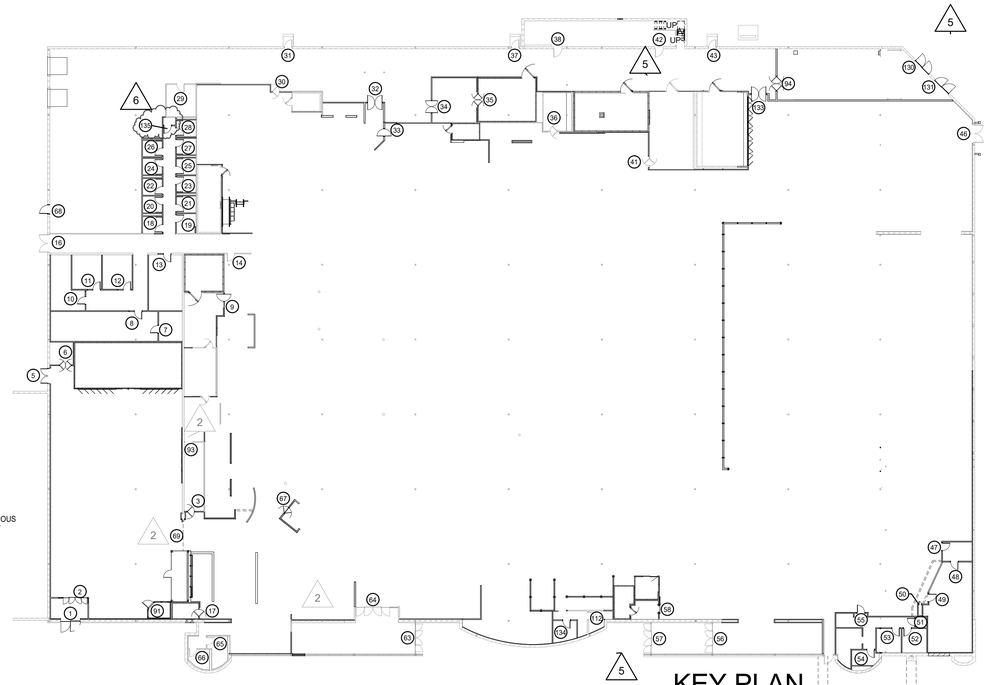
JAMB DETAIL AT NEW OPENING

J SCALE: 1" = 1'-0"



HEAD DETAIL AT NEW OPENING

K SCALE: 1" = 1'-0"



KEY PLAN

1 SCALE: 1 : 300

REVISION		
2	ASI #2	04/22/2021
5	ASI #5	03/19/21
6	ASI #7	04/16/21

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DATE OF PERMIT SUBMITTAL ADDED BY

Architect of Record:
BRR Architecture, Inc

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

8131 Metcalf Avenue
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Overland Park, KS 66204

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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

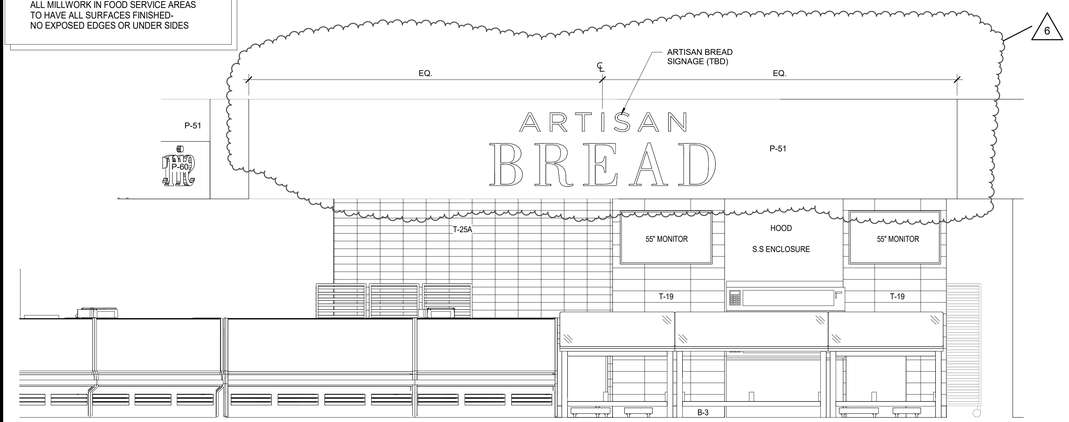
REVISION		
2	ASI #2	04/22/20 21/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

GENERAL NOTES

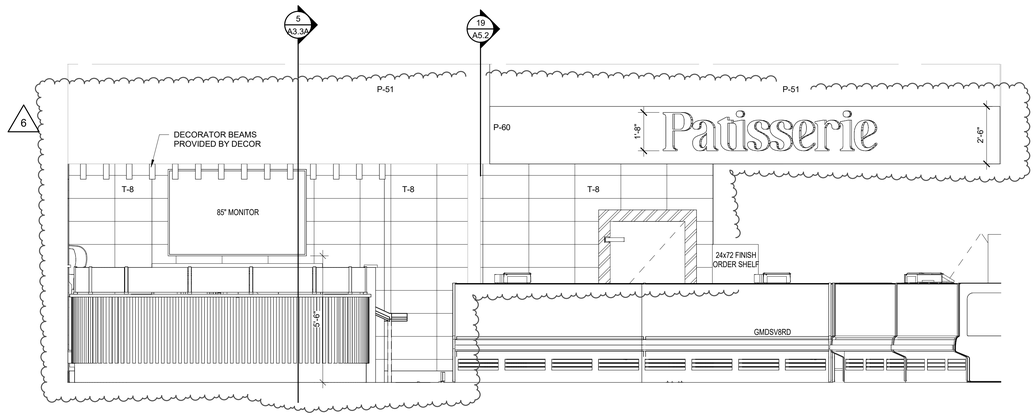
FOR FINISH SCHEDULE SEE SHEET A2.2.
MILLWORK CABINETS FURNISHED BY HY-VEE

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

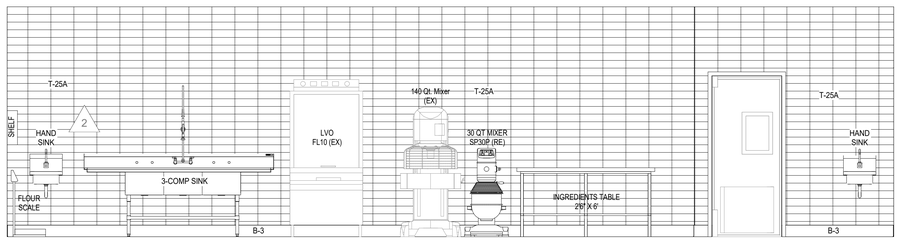
ALL MILLWORK IN FOOD SERVICE AREAS TO HAVE ALL SURFACES FINISHED- NO EXPOSED EDGES OR UNDER SIDES



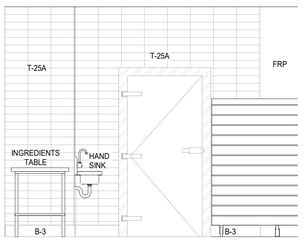
9 ELEVATION
SCALE: 3/8" = 1'-0"



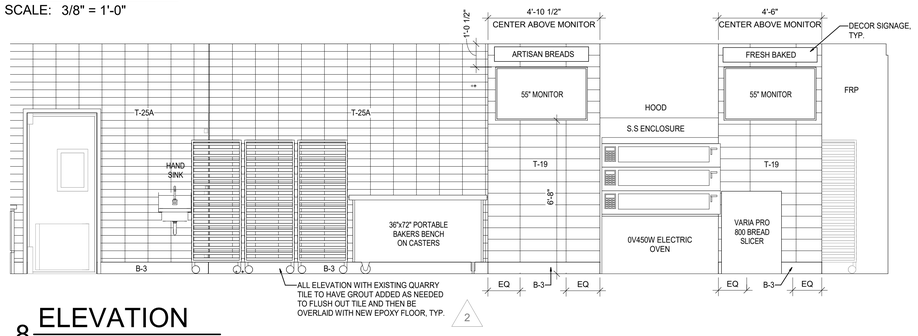
10 ELEVATION
SCALE: 3/8" = 1'-0"



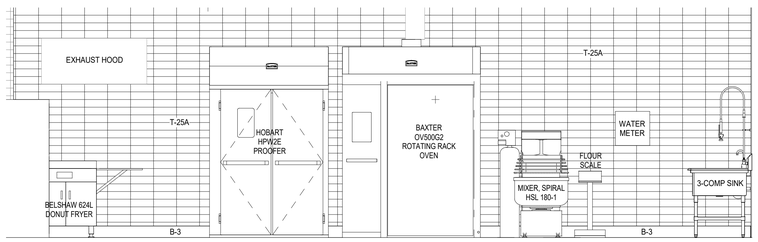
6 ELEVATION
SCALE: 3/8" = 1'-0"



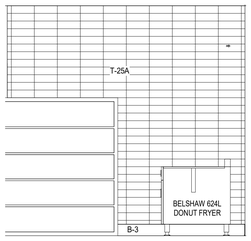
7 ELEVATION
SCALE: 3/8" = 1'-0"

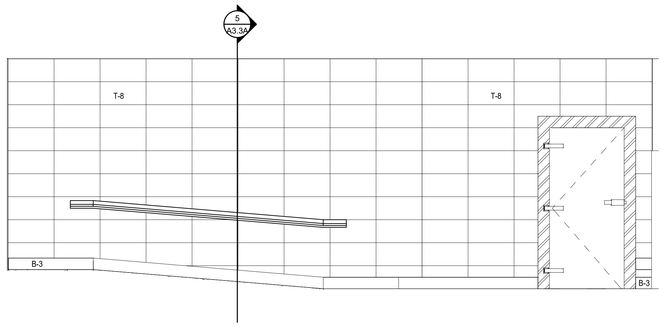


8 ELEVATION
SCALE: 3/8" = 1'-0"



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

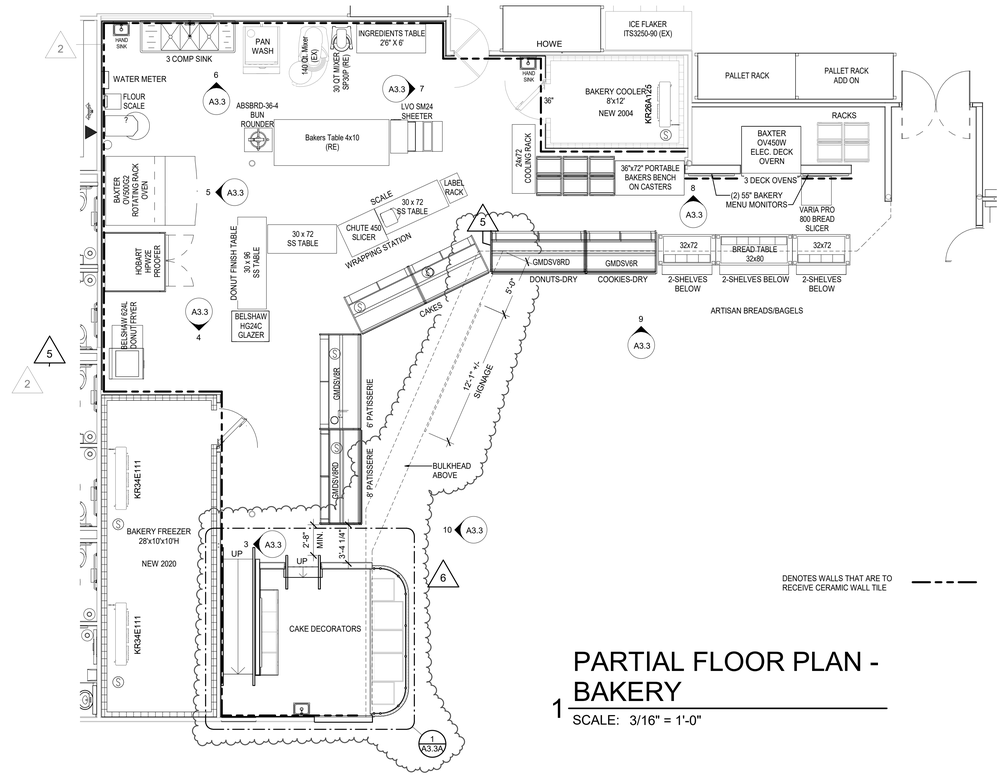




4 ELEVATION
SCALE: 3/8" = 1'-0"

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

brr

Architect of Record:
BRR Architecture, Inc
Kansas City
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Phoenix
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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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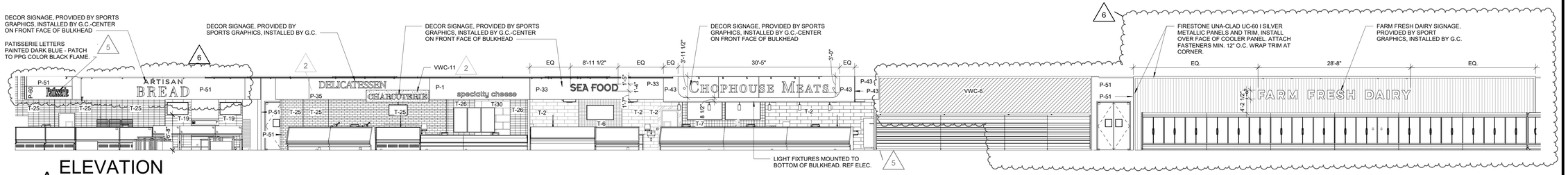
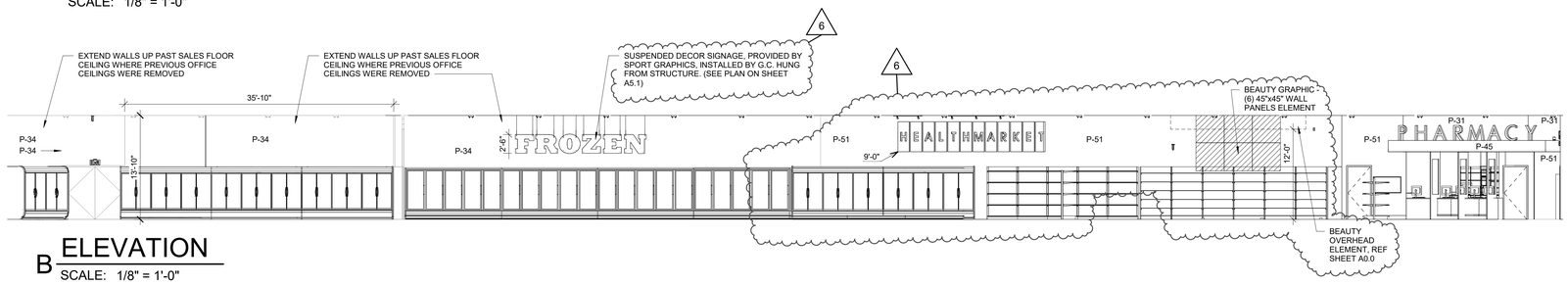
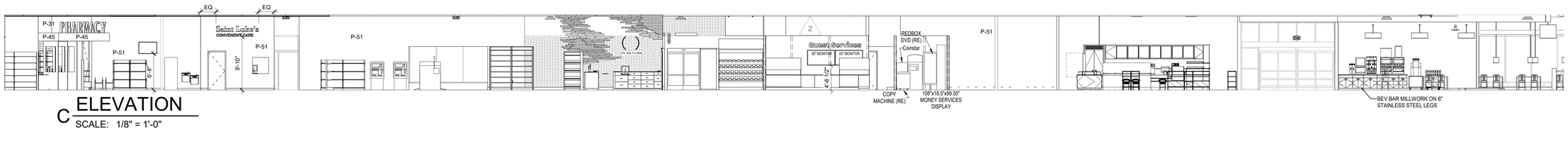
REVISION		BY
1	ASI #1	04/22/20
2	ASI #2	01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21



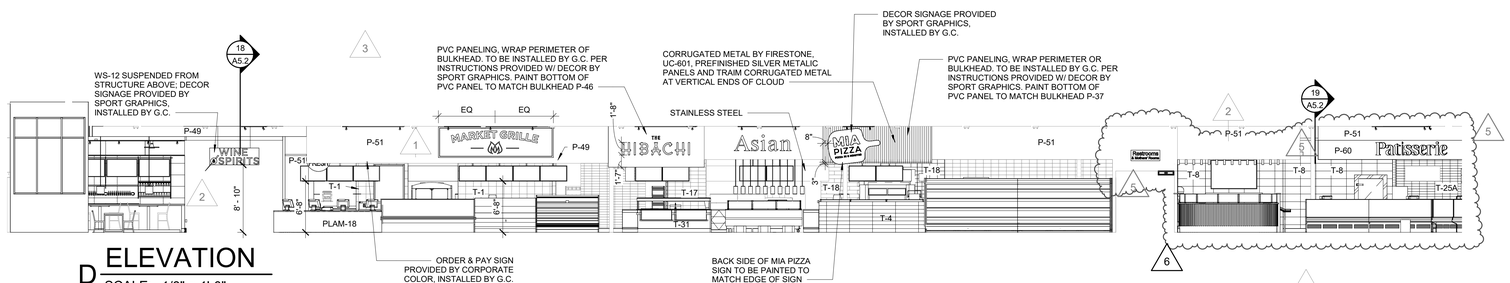
A ELEVATION
SCALE: 1/8" = 1'-0"



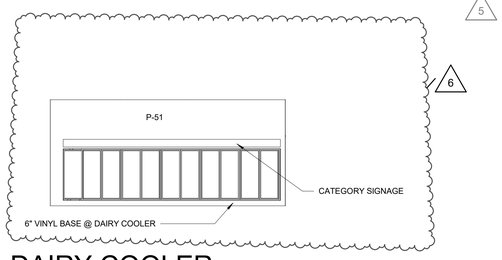
B ELEVATION
SCALE: 1/8" = 1'-0"



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



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



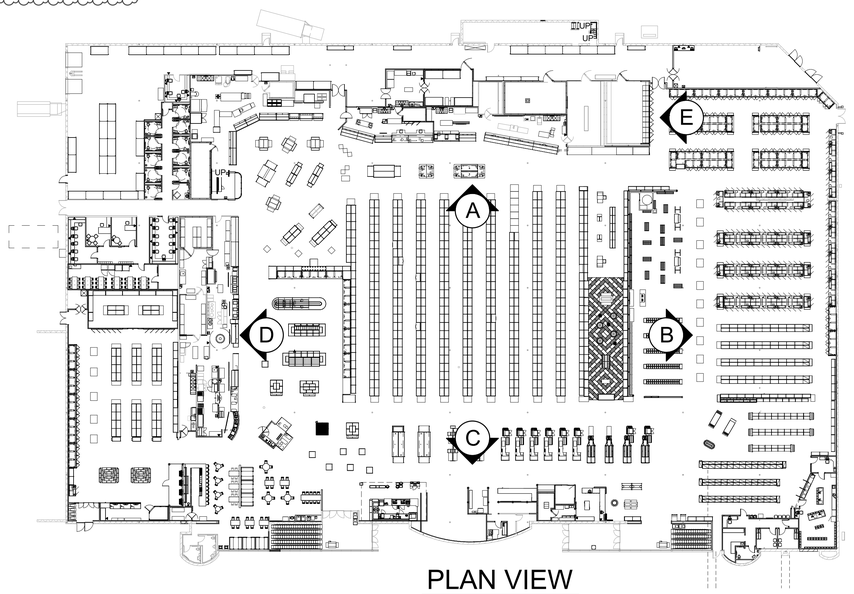
E DAIRY COOLER
SCALE: 1/8" = 1'-0"

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.

brr
Architect of Record:
BRR Architecture, Inc
Kansas City
Bentonville
Phoenix
San Francisco
Philadelphia
Atlanta
Boise
Miami
Los Angeles
Chicago
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Suite 300
Overland Park, KS 66204
Tel: 913-262-9095
Fax: 913-262-9044

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STATE OF MISSOURI
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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

RELEASE FOR CONSTRUCTION
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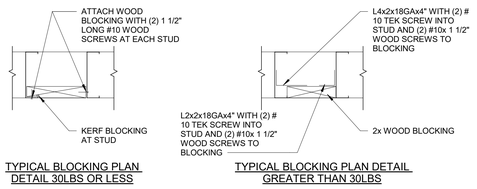
REVISION		BY
3	ASI #3	04/22/20 21/26/21
4	ASI #4	02/05/21
6	ASI #7	04/16/21

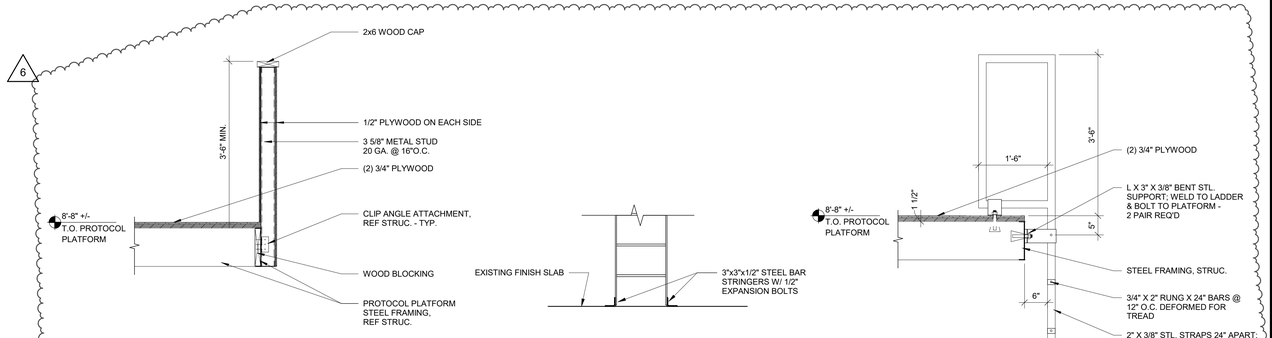


TYPICAL BLOCKING PLAN DETAIL 30LBS OR LESS

TYPICAL BLOCKING PLAN DETAIL GREATER THAN 30LBS

4 TYPICAL WOOD BLOCKING ATTACHMENT DETAIL

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



7 GUARDRAILING DETAIL

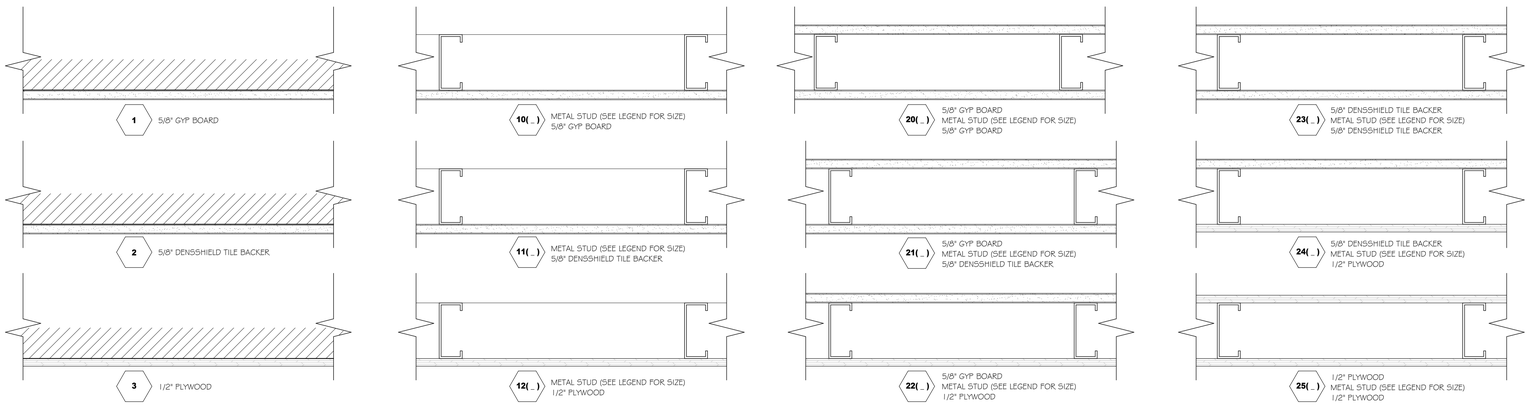
SCALE: 3/4" = 1'-0"

6 LADDER DETAIL

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

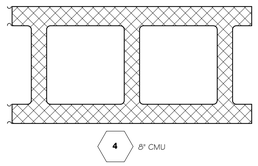
5 LADDER DETAIL

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

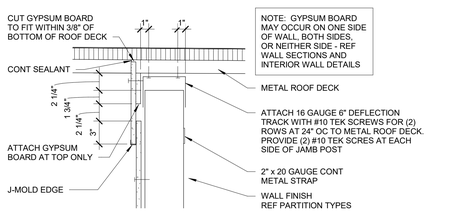


METAL STUD SIZE LEGEND

- **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.

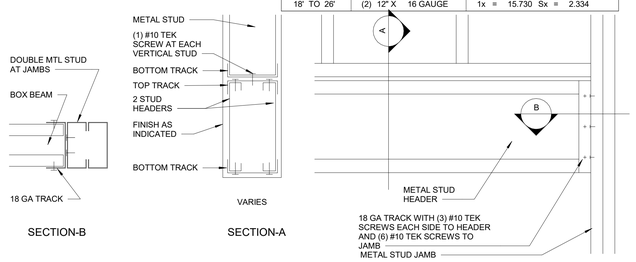


3 NON-RATED DEFLECTION TRACK

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

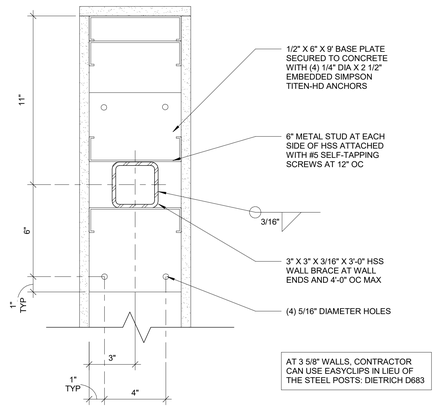
INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE

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

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NUMBER A-007528
REGISTERED ARCHITECT

Richard A. Majors, JR. 4/16/2021
Architect
Missouri License No. A-007528

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INTERIOR WALL DETAILS

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

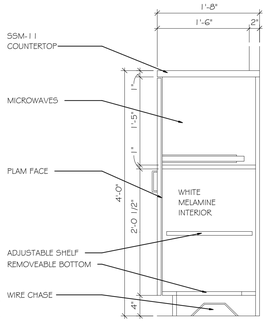
SHEET:

A2.5

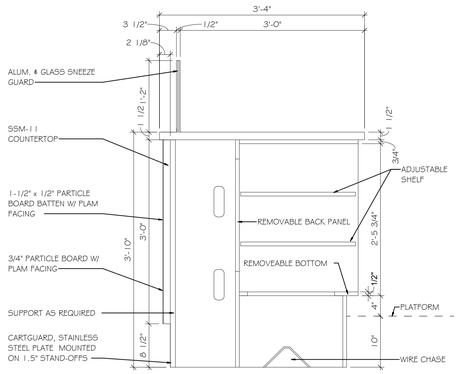
4/14/2021 10:18:35 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		BY
5	ASI #5	04/22/20 23/19/21
6	ASI #7	04/16/21



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



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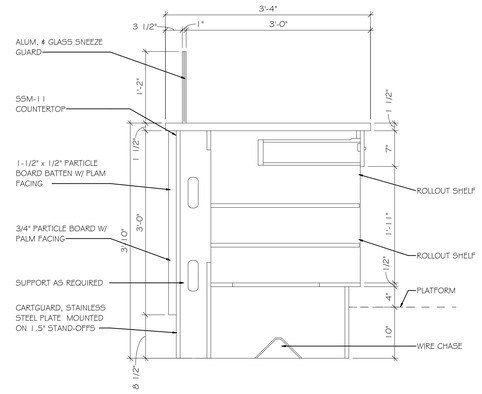
SCALE: 1" = 1'-0"



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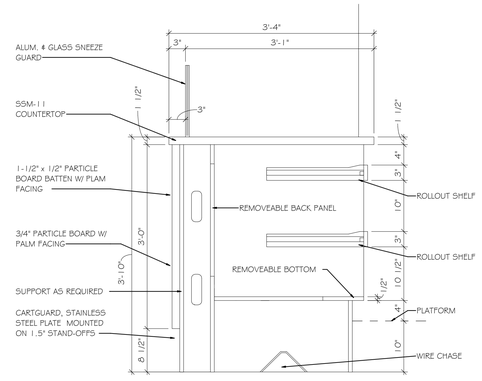
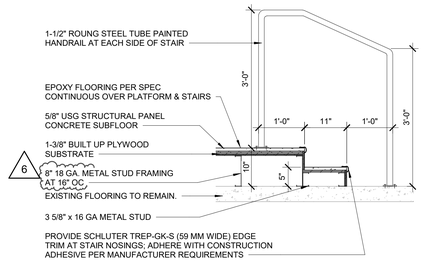


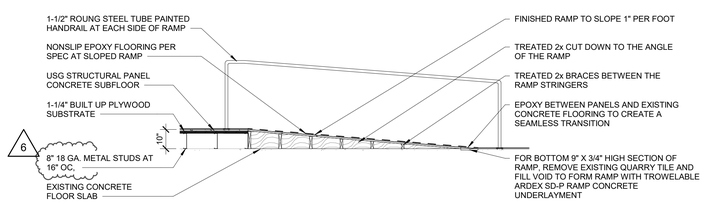
10 MILLWORK SECTION
SCALE: 1" = 1'-0"

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

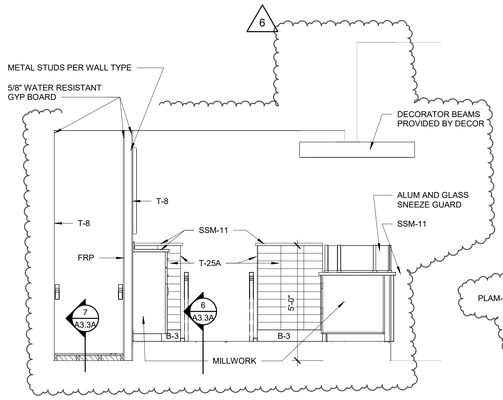
8 MILLWORK SECTION
SCALE: 1" = 1'-0"



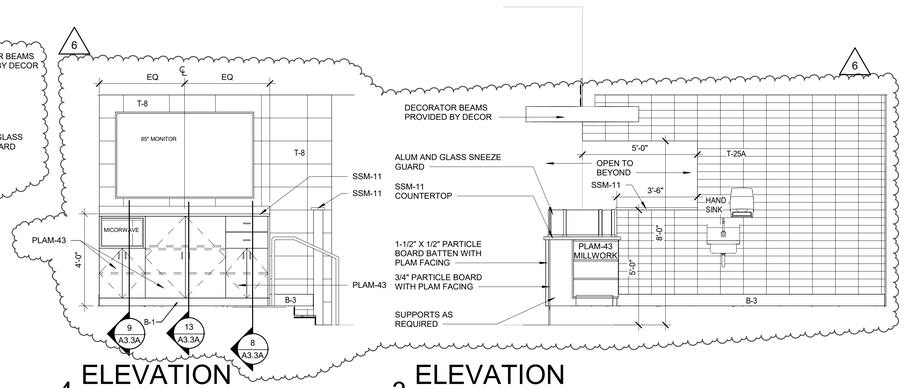
6 STAIR SECTION
SCALE: 3/4" = 1'-0"



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

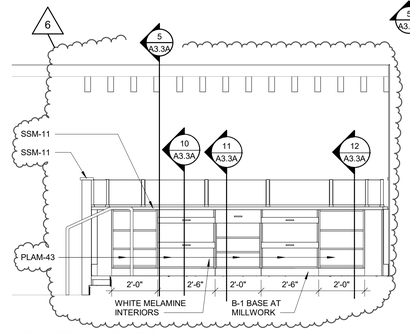


5 RAMP SECTION
SCALE: 3/8" = 1'-0"



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

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



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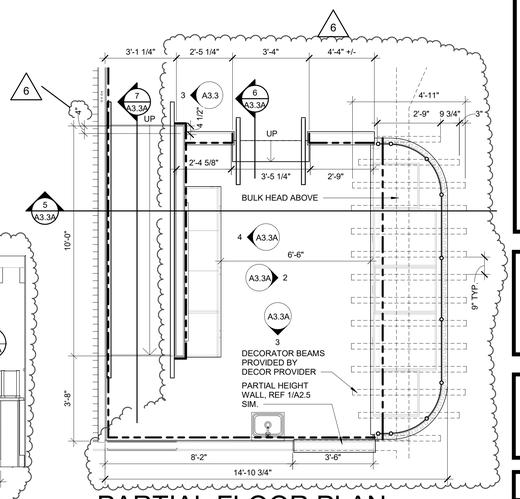
SCALE: 3/8" = 1'-0"



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

DENOTES WALLS THAT ARE TO RECEIVE CERAMIC WALL TILE

4/21/2021 8:27:35 AM

brr

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NUMBER A-007528
REGISTERED ARCHITECT

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

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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

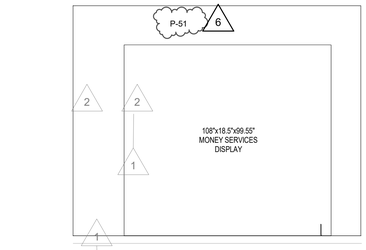
SHEET:
A3.3A

GENERAL NOTES

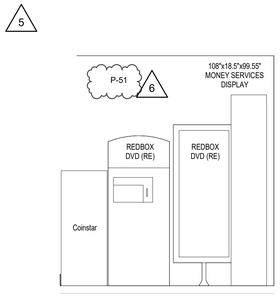
SEE SHEET A2.2 FOR FINISH SCHEDULES

MILLWORK CABINETS PROVIDED BY HY-VEE

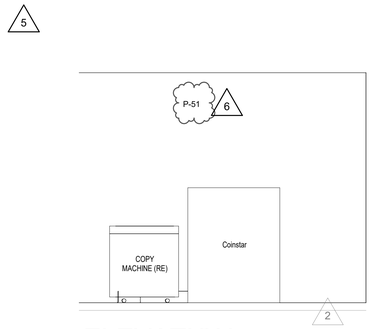
ALL OFFICE AREAS, PAINT UNDERCOUNTER BRACKETS TO MATCH WALL FINISH



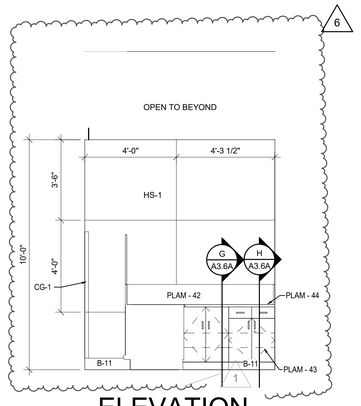
10 ELEVATION
SCALE: 3/8" = 1'-0"



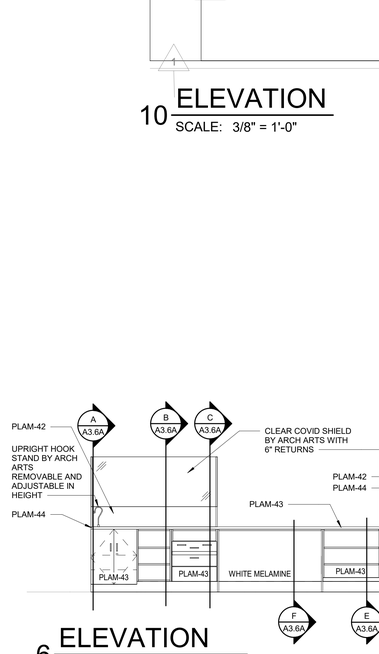
9 ELEVATION
SCALE: 3/8" = 1'-0"



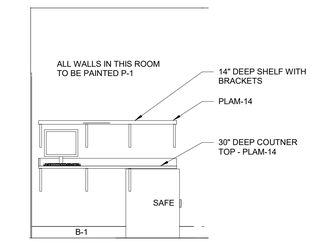
8 ELEVATION
SCALE: 3/8" = 1'-0"



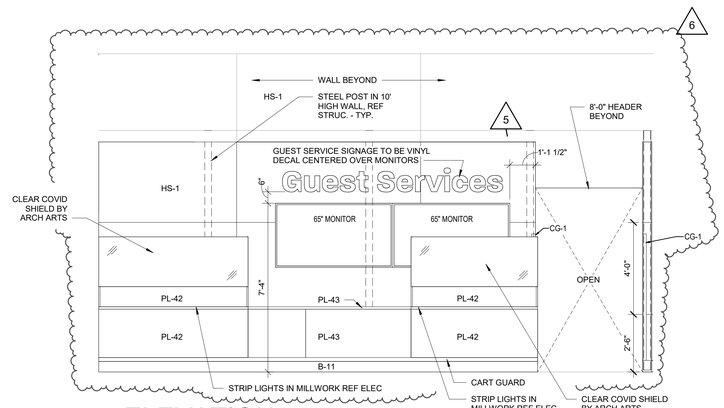
7 ELEVATION
SCALE: 3/8" = 1'-0"



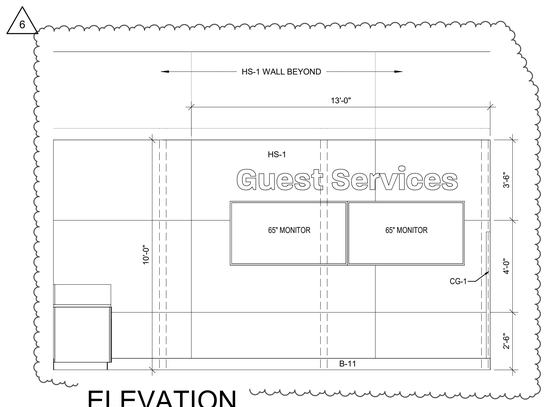
6 ELEVATION
SCALE: 3/8" = 1'-0"



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



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



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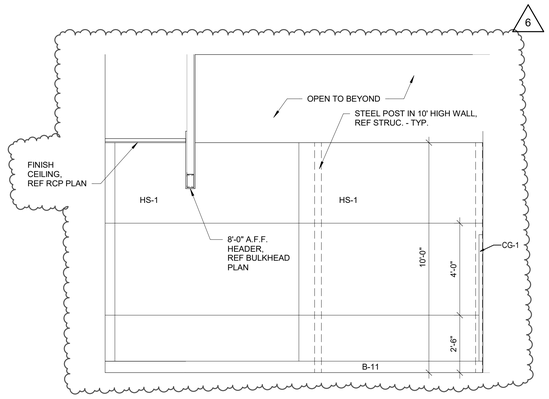

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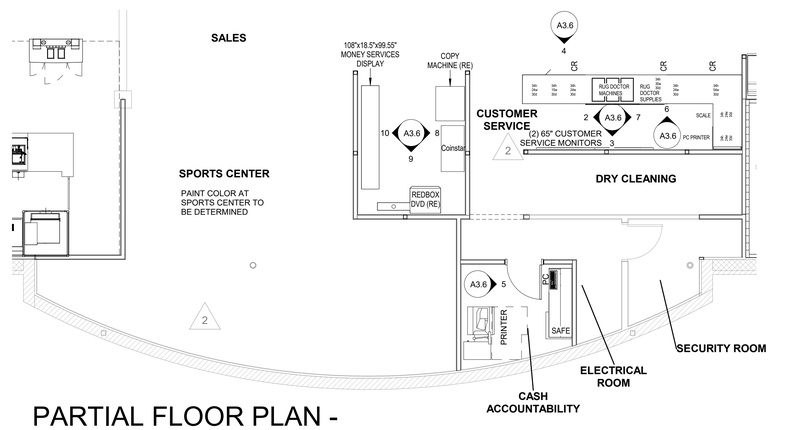

1 PARTIAL FLOOR PLAN - CUSTOMER SERVICE
SCALE: 3/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING

REVISION		BY
1	ASI #1	04/22/20
2	ASI #2	01/11/20
5	ASI #5	01/08/21
6	ASI #7	03/19/21
		04/16/21

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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

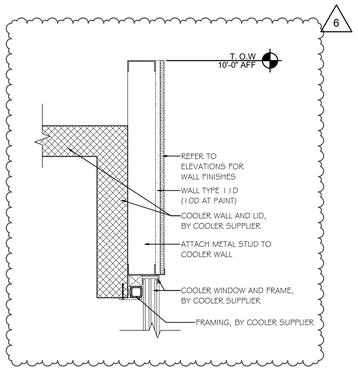
SHEET:

A3.6

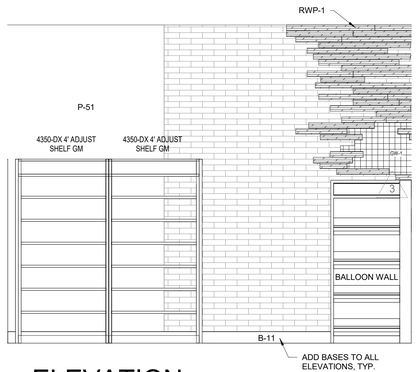
4/15/2021 6:25:26 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

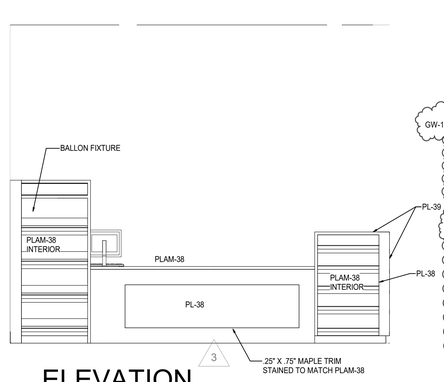
REVISION			BY
2	ASI #2	04/22/202	01/26/21
3	ASI #3		01/26/21
5	ASI #5		03/19/21
6	ASI #7		04/16/21



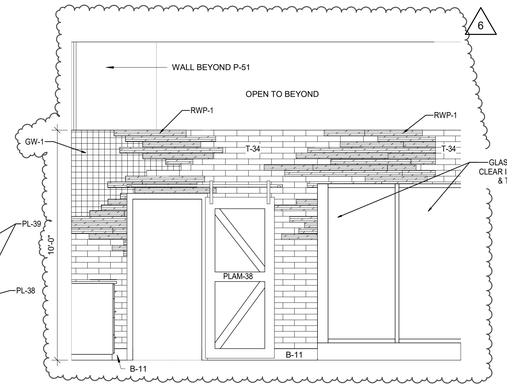
12 FLORAL SECTION
SCALE: 1 1/2" = 1'-0"



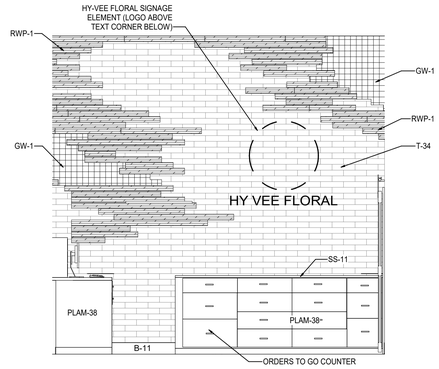
11 ELEVATION
SCALE: 3/8" = 1'-0"



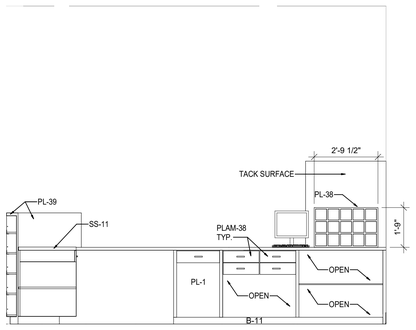
10 ELEVATION
SCALE: 3/8" = 1'-0"



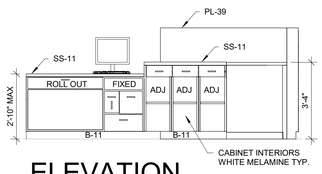
9 ELEVATION
SCALE: 3/8" = 1'-0"



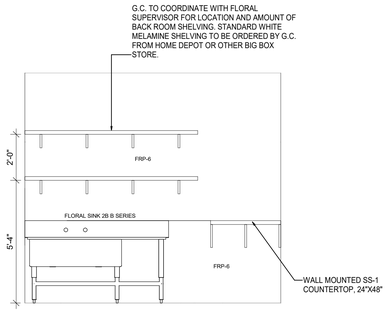
8 ELEVATION
SCALE: 3/8" = 1'-0"



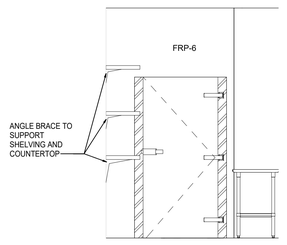
7 ELEVATION
SCALE: 3/8" = 1'-0"



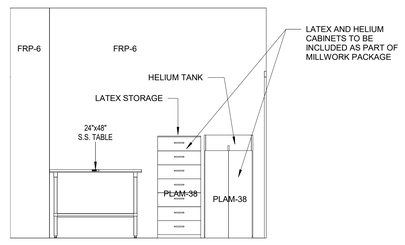
6 ELEVATION
SCALE: 3/8" = 1'-0"



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



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



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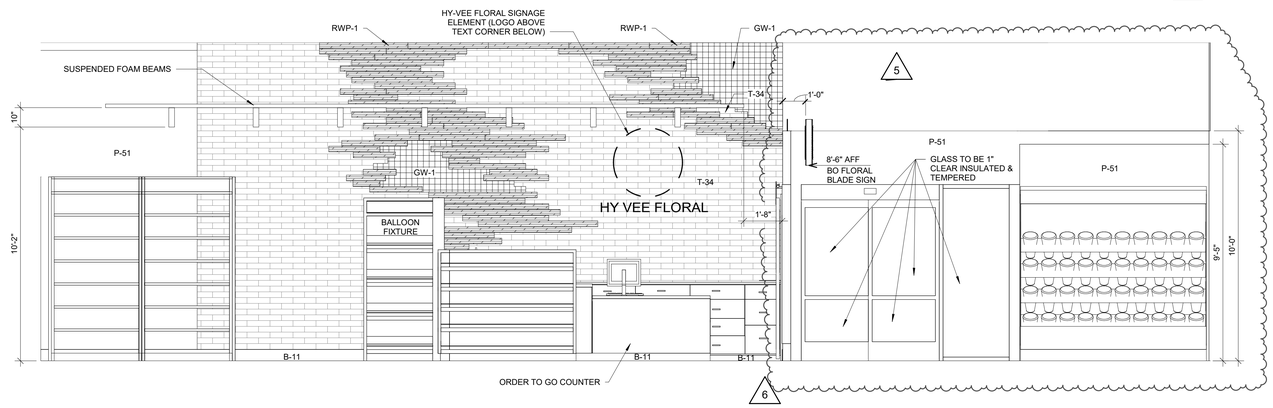
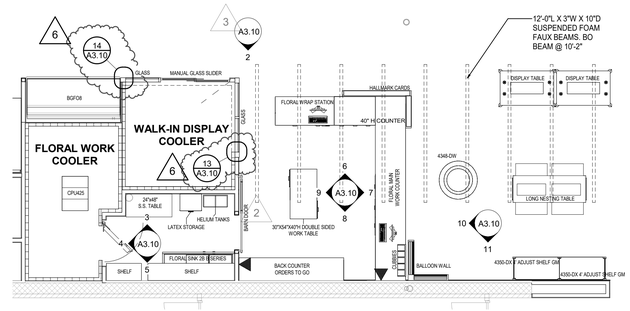
SCALE: 3/8" = 1'-0"



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.

brr

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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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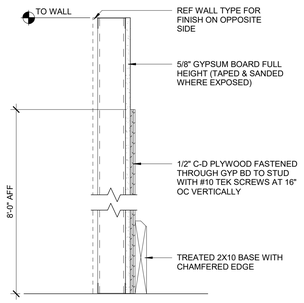
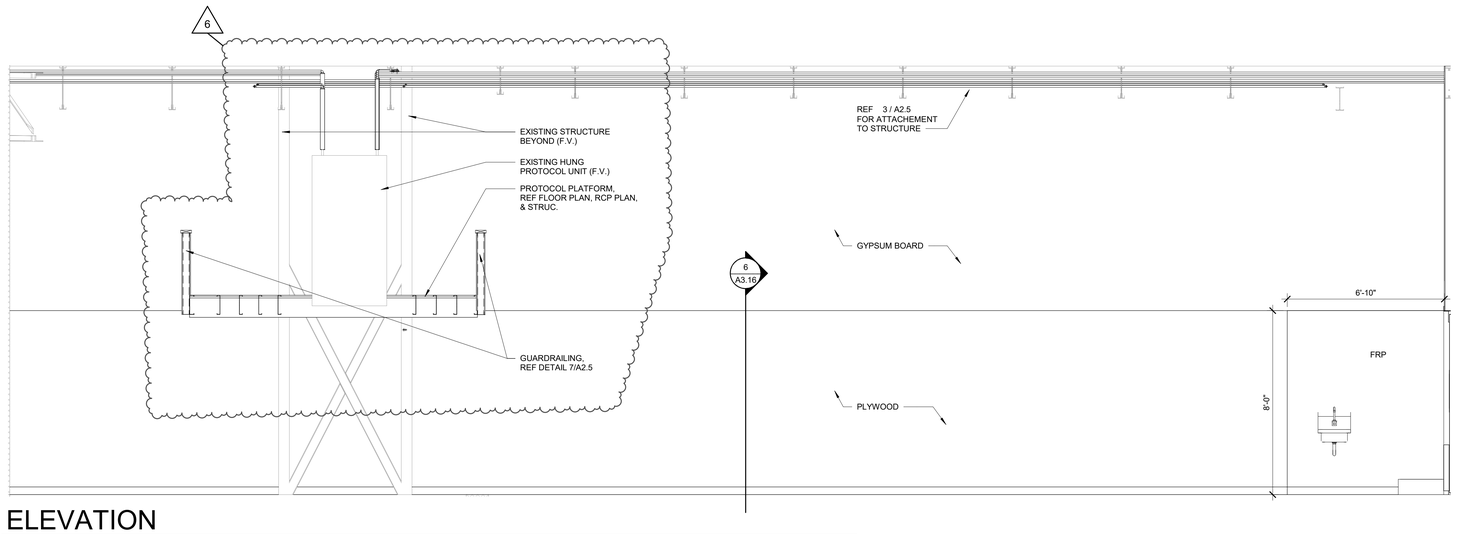
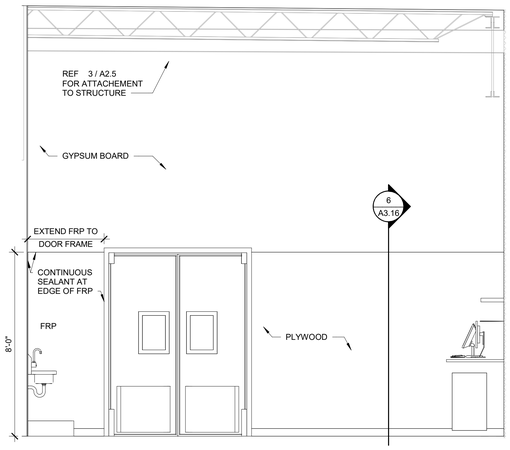
REVISION		
5	ASI #5	04/22/20,03/19/21
6	ASI #7	04/16/21



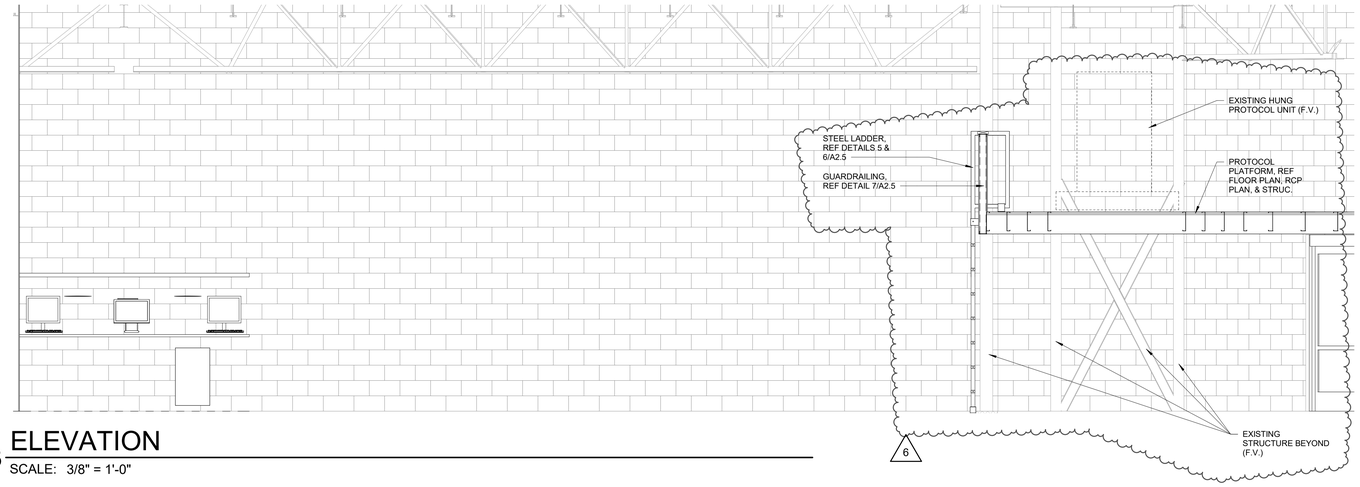
6 BOH PLY SHEATHING
SCALE: 1 1/2" = 1'-0"



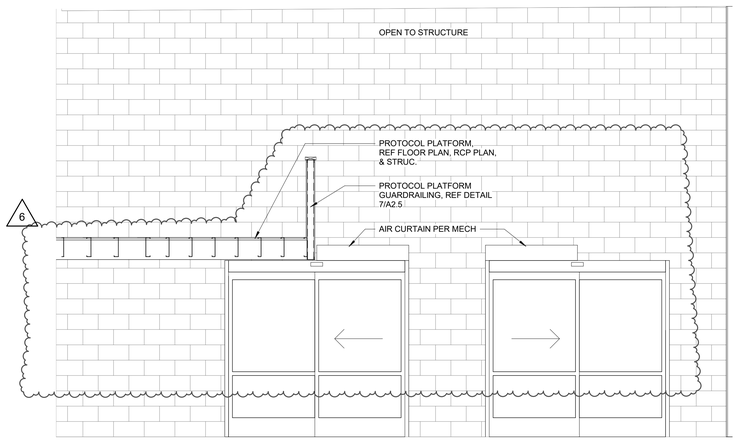
5 ELEVATION
SCALE: 3/8" = 1'-0"



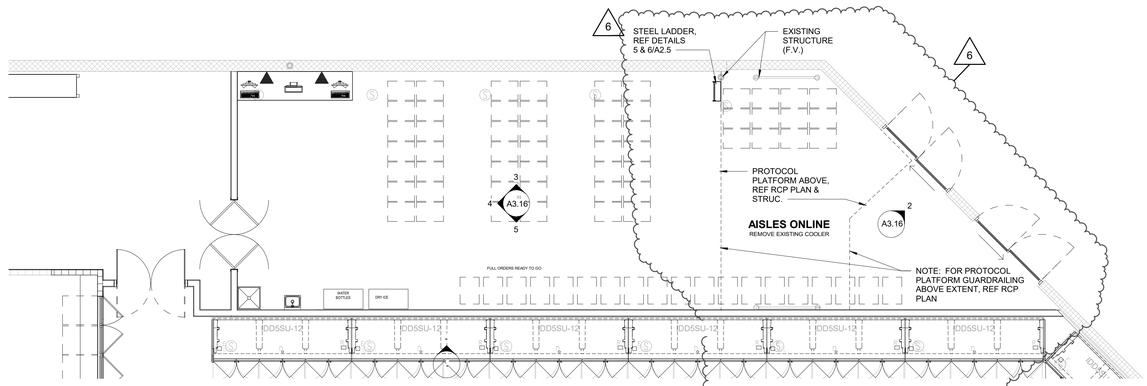
4 ELEVATION
SCALE: 3/8" = 1'-0"



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"

brr

Architect of Record:
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05.27.21

LOCATION
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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

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A3.16

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RELEASE FOR CONSTRUCTION
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REVISION		BY
2	ASI #2	04/22/202 01/08/21
3	ASI #3	01/26/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

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.
9'-0" A.F.F.
5'-10 1/4"
10'-6 5/6"
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"
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
8'-4"
2'-0"
10'-7 1/2"
NORI SUSHI SIGNAGE
10'-9"
6'-5"
6'-7 1/4"
40'-9 1/2"
18'-4 1/2"
4'-4"
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
5'-3 1/2"
9'-9 1/2"
6'-0"
10'-0 1/2"
2'-7 1/2"
10'-0 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"
20'-11 1/2"
4'-8"
3'-5 1/2"
3'-2 1/2"
20'-3 1/2"
MATCH WALL THICKNESS
13'-6" A.F.F

NOTE:
IN 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"

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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

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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.)

REPLACE TILES TO MATCH EXISTING, UP TO NEW WALL.

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

MATCH EXISTING

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

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"

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REFLECTED CEILING PLAN

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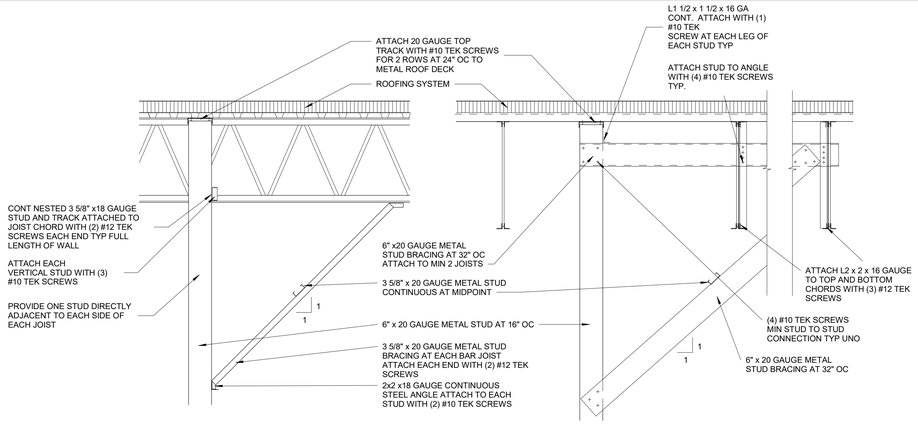
SB	JPS
DRAWN BY:	DATE:
AO	3/19/2021
SCALE:	JOB NUMBER
3/32" = 1'-0"	62930547

SHEET:
A5.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DATE OF PERMIT, PERMIT, ADDENDA

REVISION		BY
5	ASI #5	04/22/20
6	ASI #7	04/16/21

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

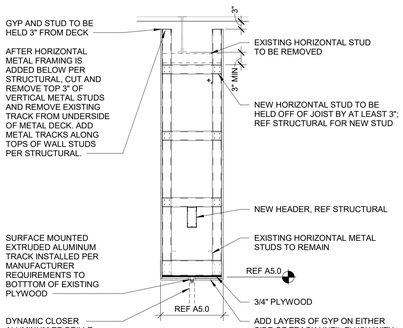


ATTACHMENT AND BRACING AT PERPENDICULAR JOIST

ATTACHMENT AND BRACING AT PARALLEL JOISTS

17 TYPICAL BULKHEAD CONNECTIONS

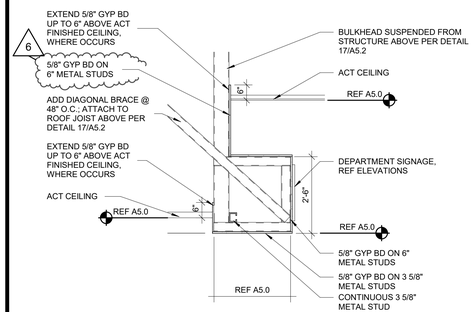
SCALE: 12" = 1'-0"



18 BULKHEAD SECTION AT W&S

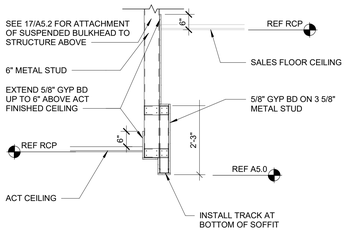
SCALE: 1/2" = 1'-0"

DETAIL 16/A5.2 REMOVED



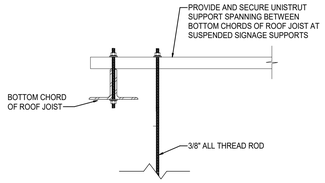
19 BULKHEAD SECTION

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



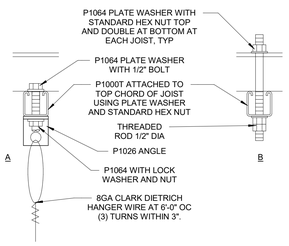
15 BULKHEAD SECTION

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



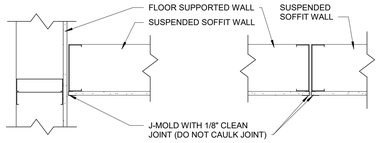
14 SIGNAGE SUPPORT DETAIL

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



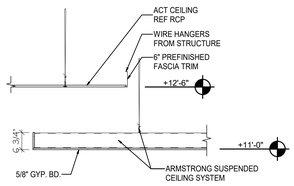
13 CONNECTION AT STRUCTURE

SCALE: 3" = 1'-0"



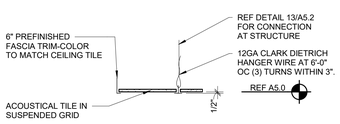
12 TYPICAL SLIP-JOINT DETAIL

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



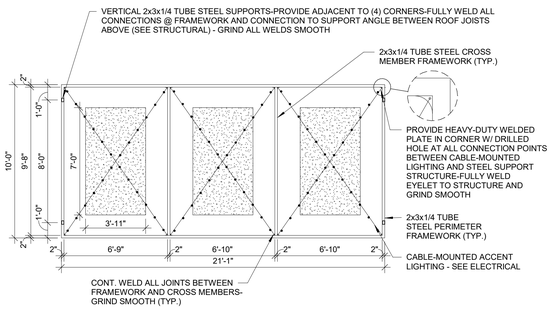
11 CLOUD SECTION

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



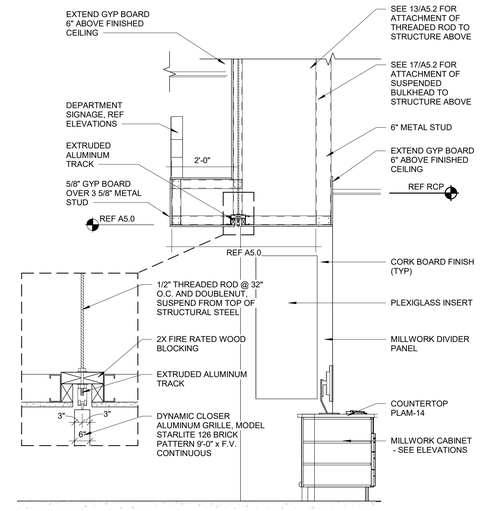
10 CLOUD AT ACT CEILING

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



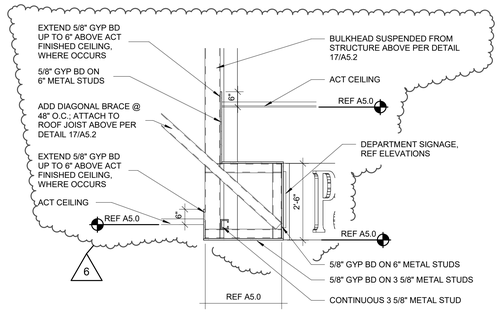
9 BAR/DINING AREA LIGHTING FRAMEWORK DETAIL

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



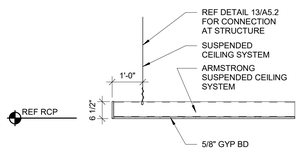
8 BULKHEAD SECTION

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



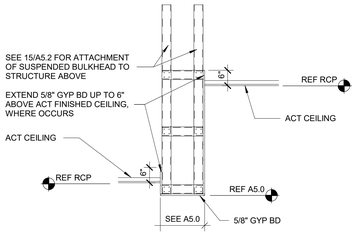
7 BULKHEAD SECTION

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



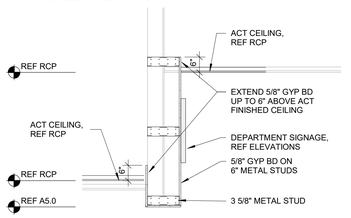
6 SECTION AT GYP BD CLOUD

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



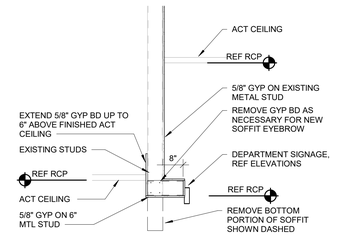
5 BULKHEAD SECTION

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



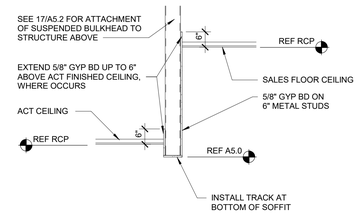
4 BULKHEAD SECTION

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



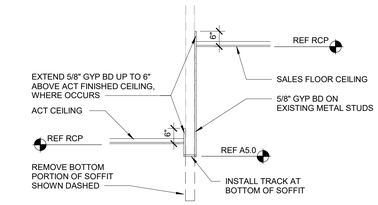
3 SECTION AT SOFFIT

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



2 BULKHEAD SECTION

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



1 BULKHEAD SECTION

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

brr

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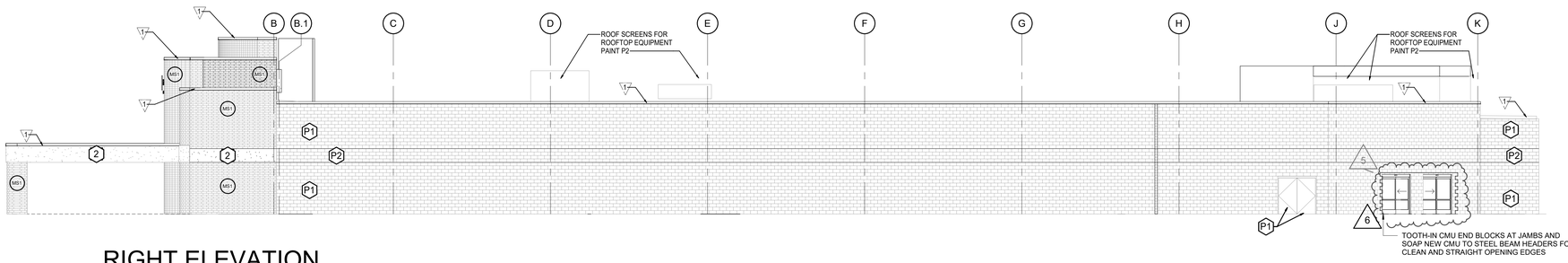
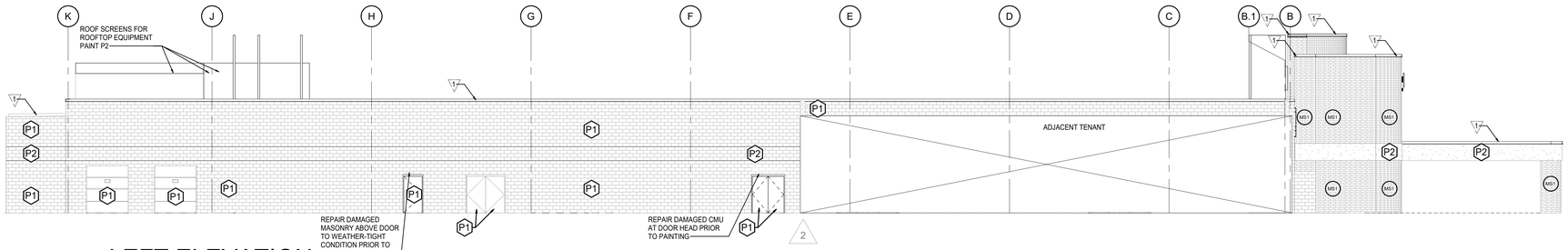


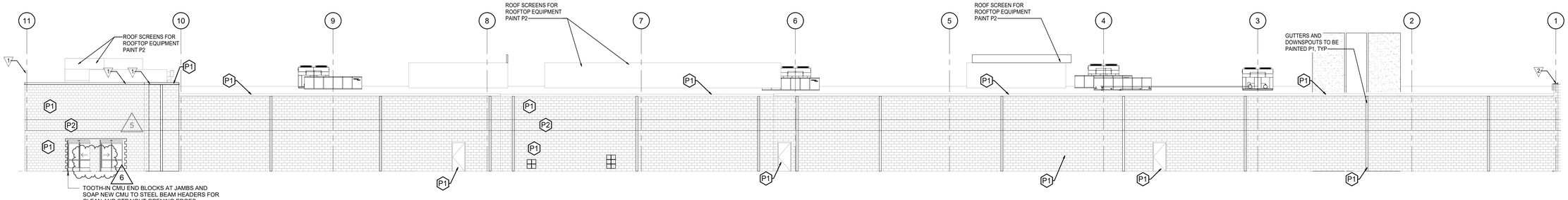
1 RIGHT ELEVATION

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



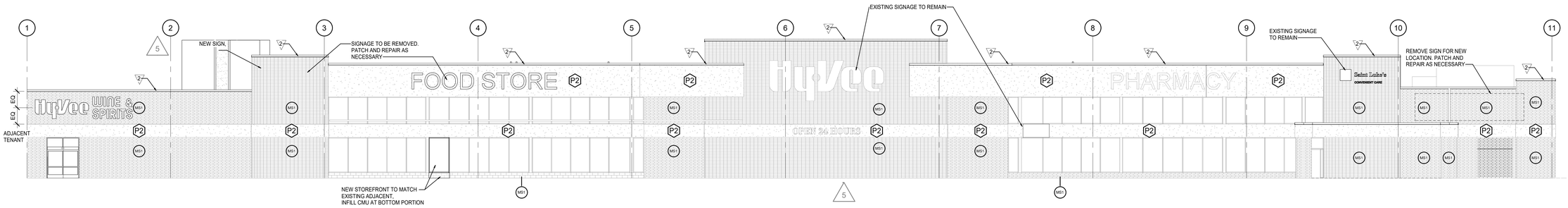
2 LEFT ELEVATION

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

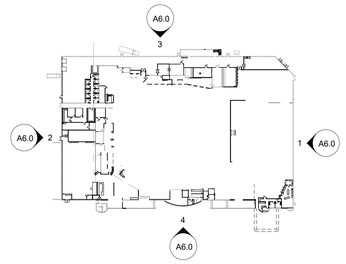
METAL FLASHINGS:

7 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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
PERMIT, BIDDING

REVISION		BY
2	ASI #2	04/22/20 21/08/21
5	ASI #5	03/19/21
6	ASI #7	04/16/21

brr

Architect of Record:
BRR Architecture, Inc

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Philadelphia
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Miami
Los Angeles
Chicago

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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

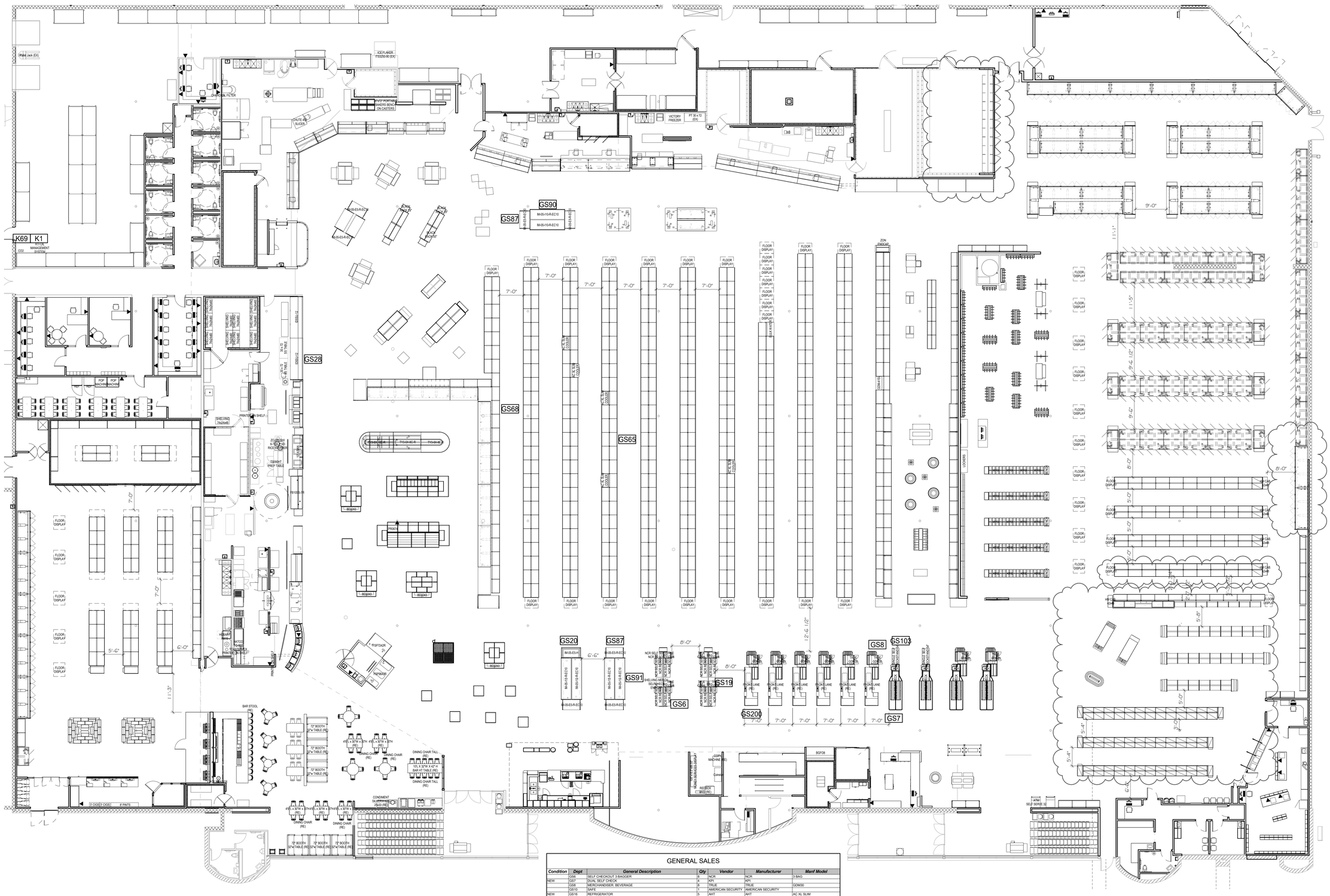
SHEET:

A6.0

4/15/2021 10:45:31 PM

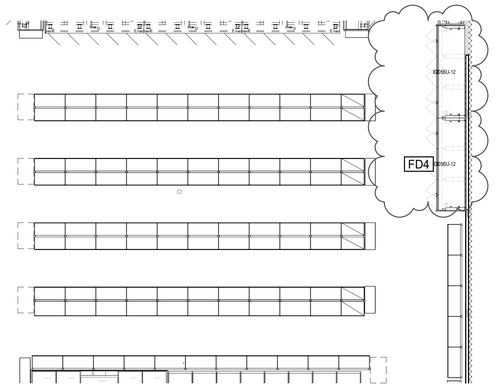
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DES MOINES SERVICES
LEE'S SUMMIT, MISSOURI
BY
10/2/2020

REVISION		
2	ASI #2	10/2/2020
3	ASI #3	1/22/21
4	ASI #4	2/5/21
5	ASI #5	3/19/21
6	ASI #7	4/21/21


GS90
GS87
GS28
GS68
GS65
GS20
GS87
GS91
GS6
GS19
GS200
GS7
GS8
GS103
K69
K1
HVAC MANAGEMENT SYSTEM
ICE FLAKER ITS0200-90 (EX)
CHARCOAL FILTER
CHUTE 48" SLIDE-L
VICTORY FREEZER
PT 30 x 72 (EX)
9'-0"
11'-1"
8'-6 1/2"
9'-4"
8'-0"
5'-0"
5'-0"
5'-0"
5'-4"
5'-4"
12'-6 1/2"
7'-0"
6'-0"
5'-6"
11'-3"
2'-0"
7'-0"
POP MACHINE/MACHINE
PRINTER SHELF
ZOLL/BSM ETCH/HEART RECTIFIER
TS3KNGHT PREP TABLE
BV10SS-36
HEIGHT
HEIGHT
PRINTER SHELF
BSMART MAX
ATS20 TRANSITION SOLUTIONS PRINTER SHELF
PRINTER SHELF
PRINTER SHELF

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
DATE 4/21/2021

REVISION		
4	ASI #4	2/8/2021
5	ASI #5	3/19/21
6	ASI #7	4/21/21



FROZEN/DAIRY

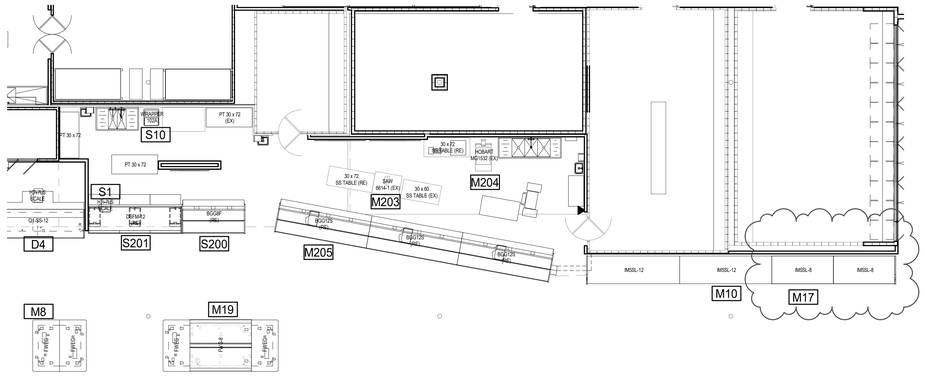
Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
NEW	FD1	CASE	6	HUSSMANN	HUSSMANN	RLN-2
NEW	FD2	CASE	12	HUSSMANN	HUSSMANN	RLN-5
NEW	FD3	CASE	9	HUSSMANN	HUSSMANN	RLN-5
NEW	FD4	CASE	19	HUSSMANN	HUSSMANN	IDDSSU-12
NEW	FD5	CASE	8	HUSSMANN	HUSSMANN	IDSNL-8
NEW	FD7	CASE	6	HUSSMANN	HUSSMANN	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

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

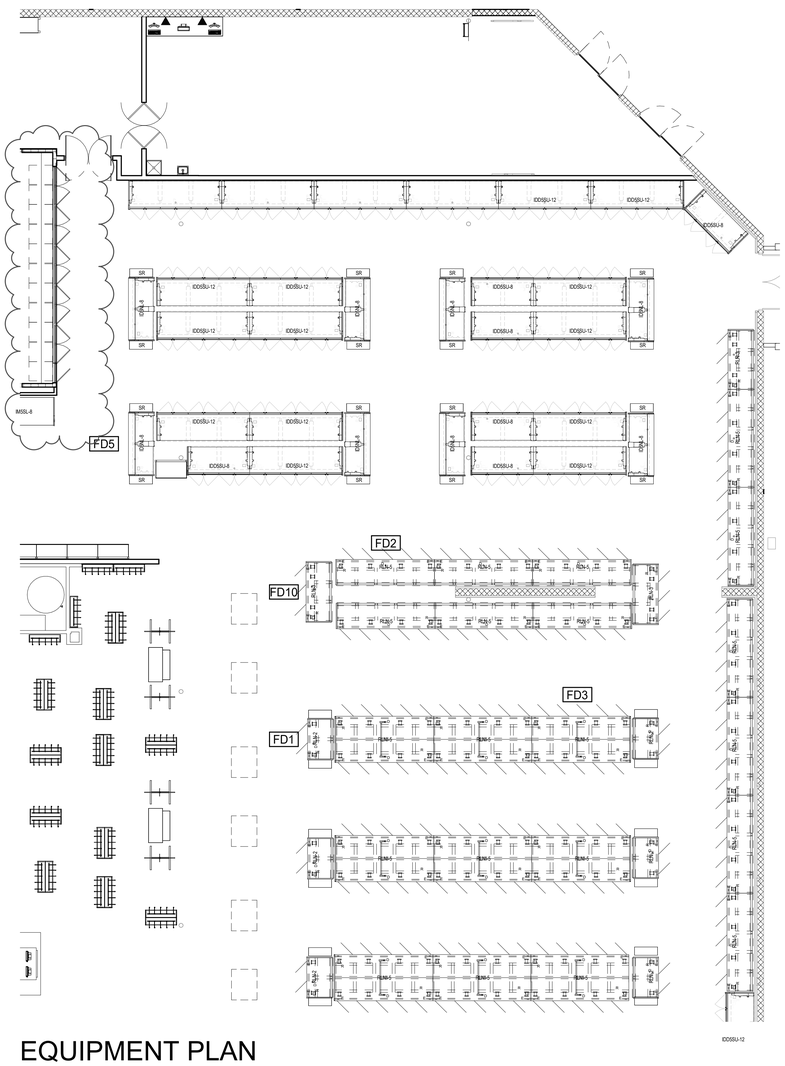
MEAT

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	BGG1125



ENLARGED EQUIPMENT PLAN HEALTH MARKET

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



EQUIPMENT PLAN FROZEN/DAIRY

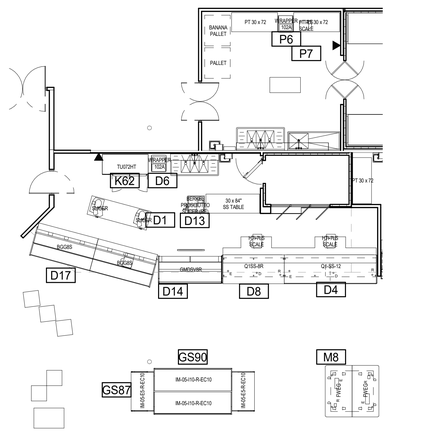
4 SCALE: 1/8" = 1'-0"

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	2/1-SS-12R
	D6	WRAPPER	1	HUSSMANN	HEAT SEAL	102A
NEW	D8	CASE	1	HUSSMANN	HUSSMAN	2/1-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	BGGSS
	D99	DELI - SINK	1	JOHN BOOS	JOHN BOOS	3-COMP PLATTER SINK
	D100	COOLER - DELI	1			
	D101	COOLER DOORS - DELI	1			QUANTITY: 3

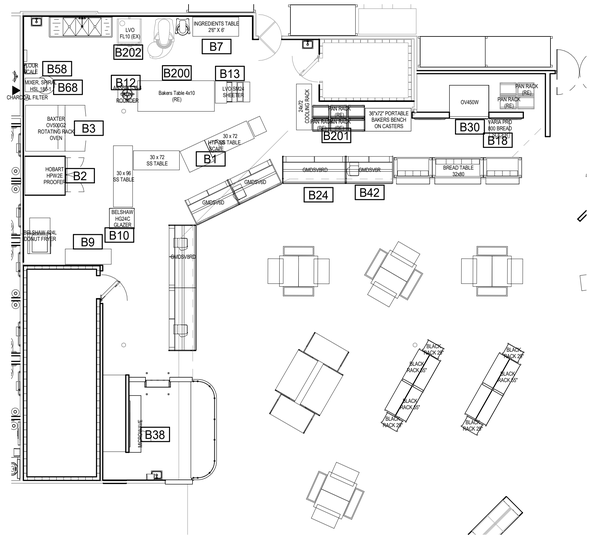


EQUIPMENT PLAN DELI

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DES MOINES SERVICES
LEE'S SUMMIT, MISSOURI
BY
10/2/2020

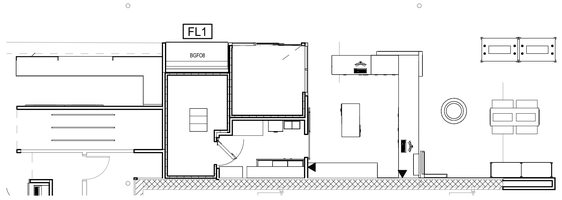
REVISION		
2	ASI #2	10/2/2020
3	ASI #3	1/22/21
4	ASI #4	2/5/21
6	ASI #7	4/21/21

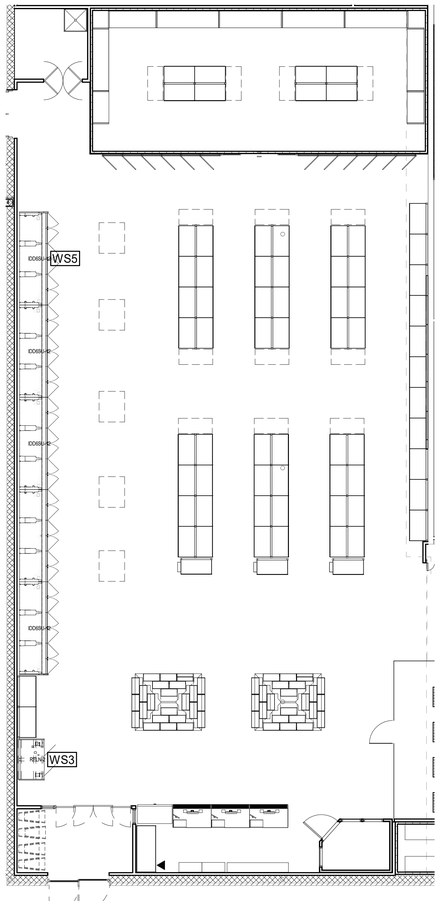
WINE & SPIRITS

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	IDD65U-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

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			

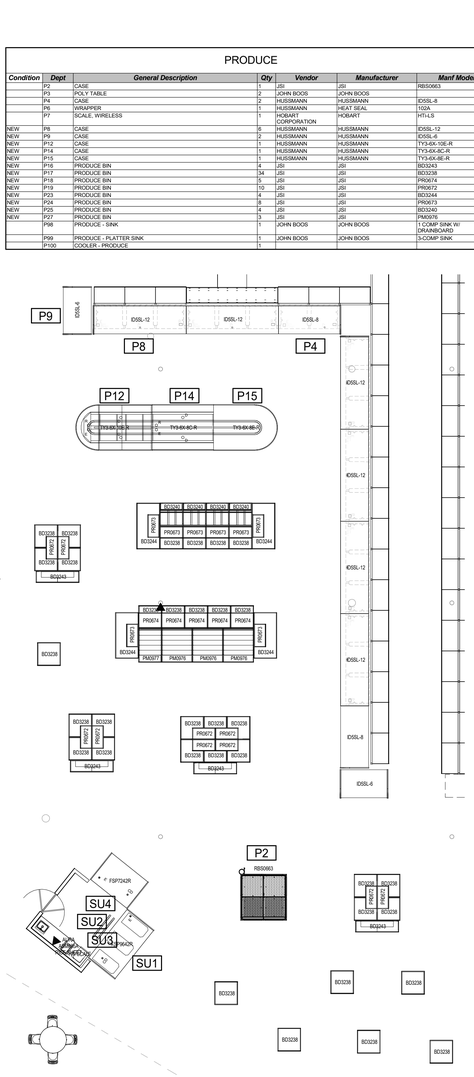




5 EQUIPMENT PLAN FLORAL
SCALE: 1/8" = 1'-0"

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			



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
	A6	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

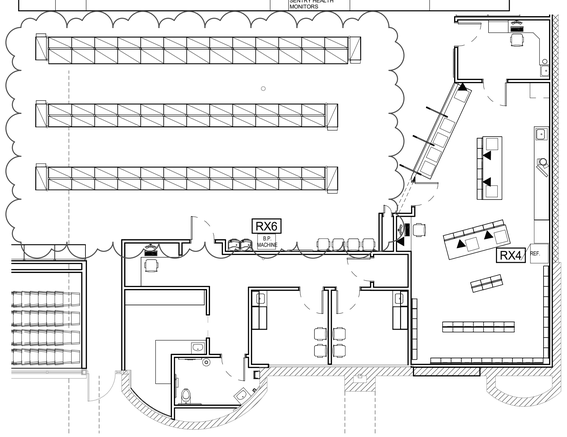
Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
RELOCATED	CS6	CAPPUCINO 5 HEAD	1		INTERNATIONAL	37300.0023
RELOCATED	CS11	ICE MACHINE, CUBER	1	D&J BEVERAGE	CORNELIUS	CIMW36HW
RELOCATED	CS12	ICE MACHINE	1	HUSSMANN	HUSSMANN	WCC-700

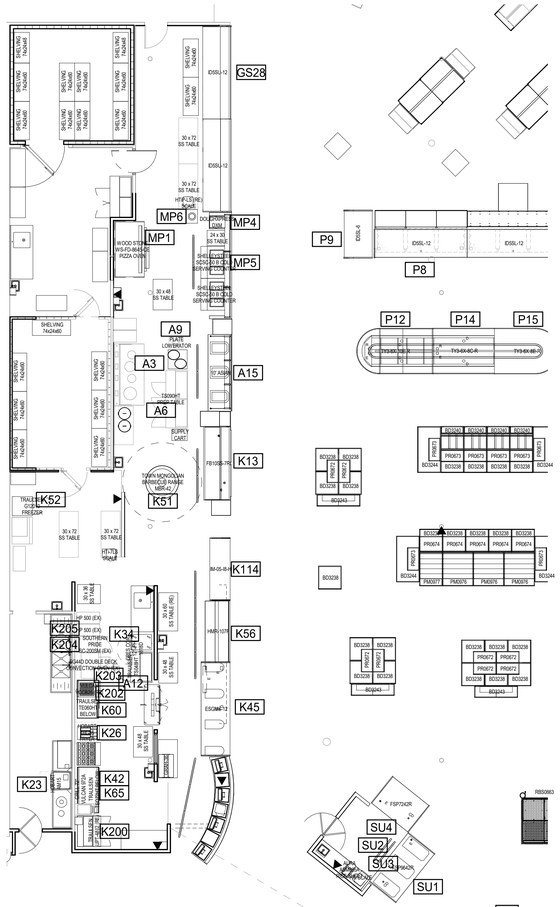
KITCHEN

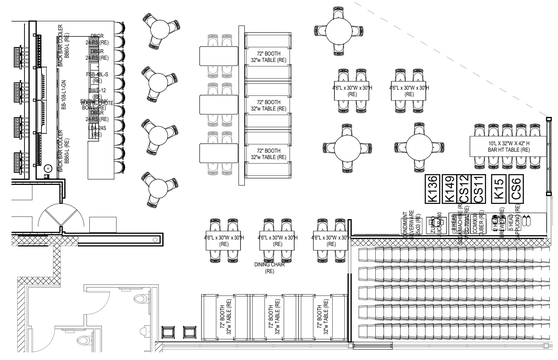
Condition	Dept	General Description	Qty	Vendor	Manufacturer	Manf Model
	K1	OIL MANAGEMENT	1	RTI	RTI	BI-2W
	K4	SCALE, WIRELESS	1	HOBART CORPORATION	HOBART	HTI-7LS
	K10	TOASTER, CONVEYOR	1	HATCO	HATCO	TQ-800
	K13	SALAD BAR	1	STRUCTURAL CONCEPTS	STRUCTURAL CONCEPTS	FB10-SS-7R
	K15	COFFEE BREWERS	1	WILBUR 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-48L-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

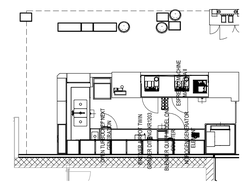
PHARMACY

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









6 EQUIPMENT PLAN WINE AND SPIRITS
SCALE: 1/8" = 1'-0"

4 EQUIPMENT PLAN COFFEE
SCALE: 1/8" = 1'-0"

3 EQUIPMENT PLAN PRODUCE
SCALE: 1/8" = 1'-0"

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

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

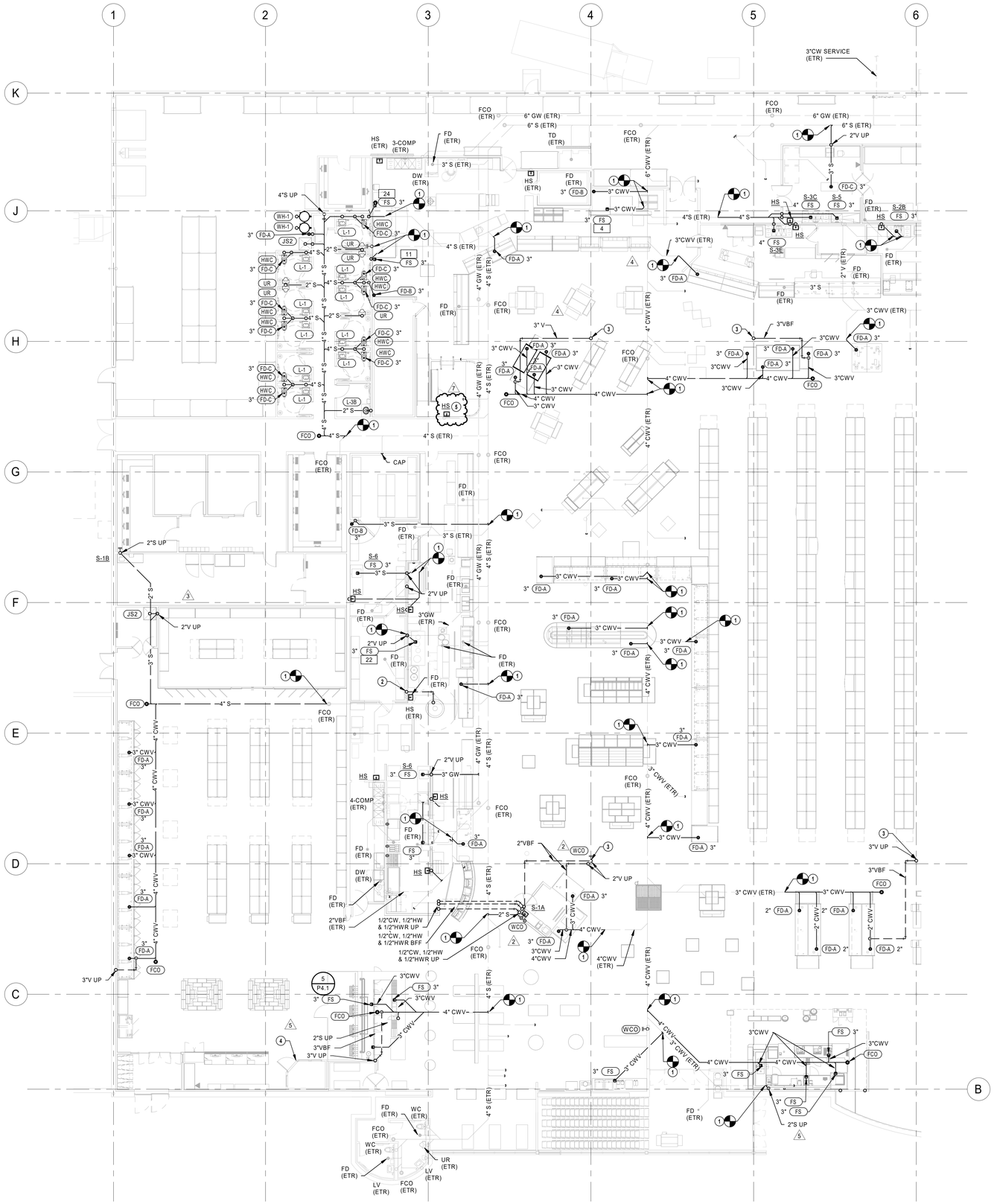
NORTH PLAN NORTH

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
04/22/2021

	REVISION	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

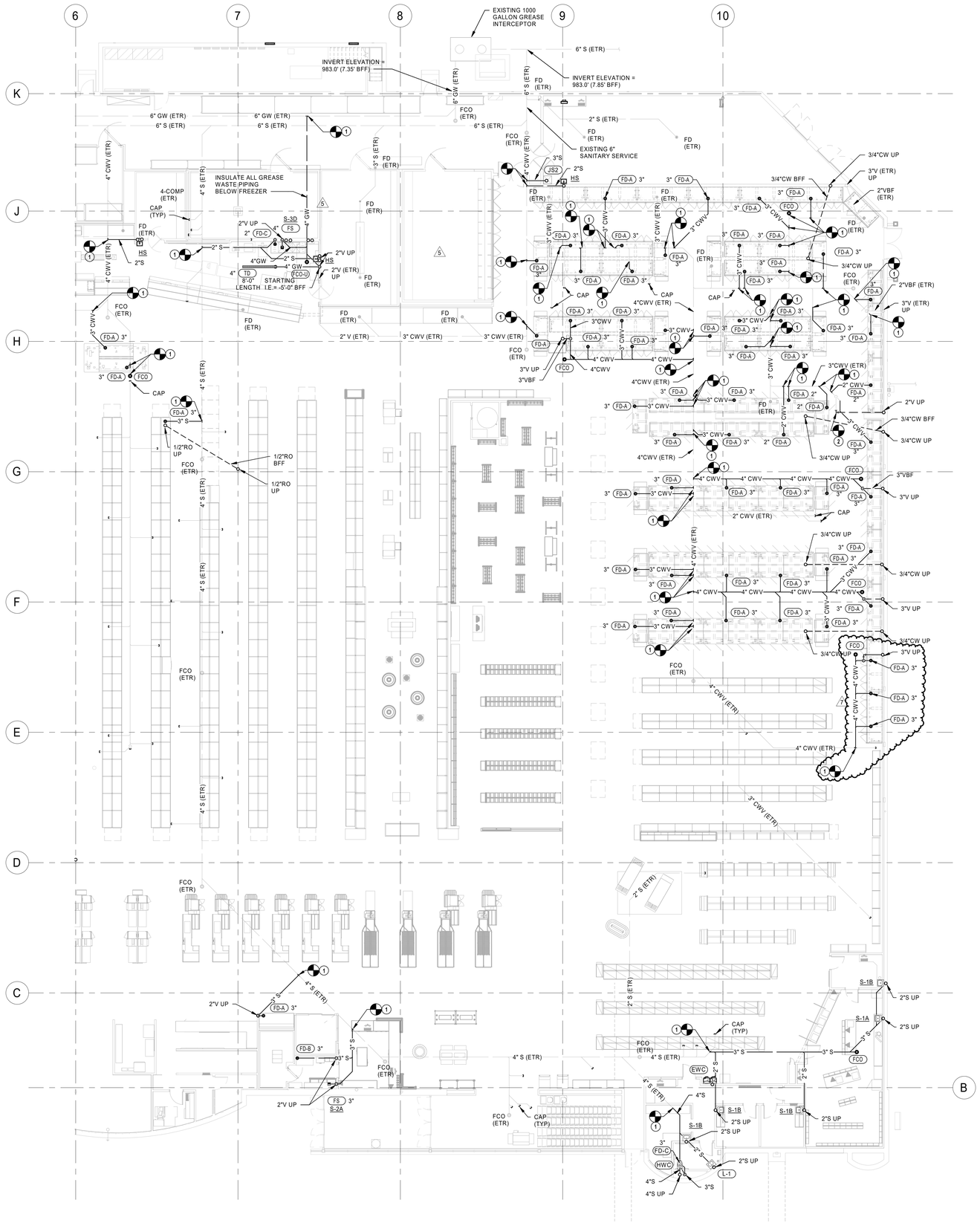
NORTH PLAN NORTH

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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REVISION		BY
5	ASI #5	04/22/20
7	ASI #7	04/16/21

HENDERSON ENGINEERS
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LENEXA, KS 66214
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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

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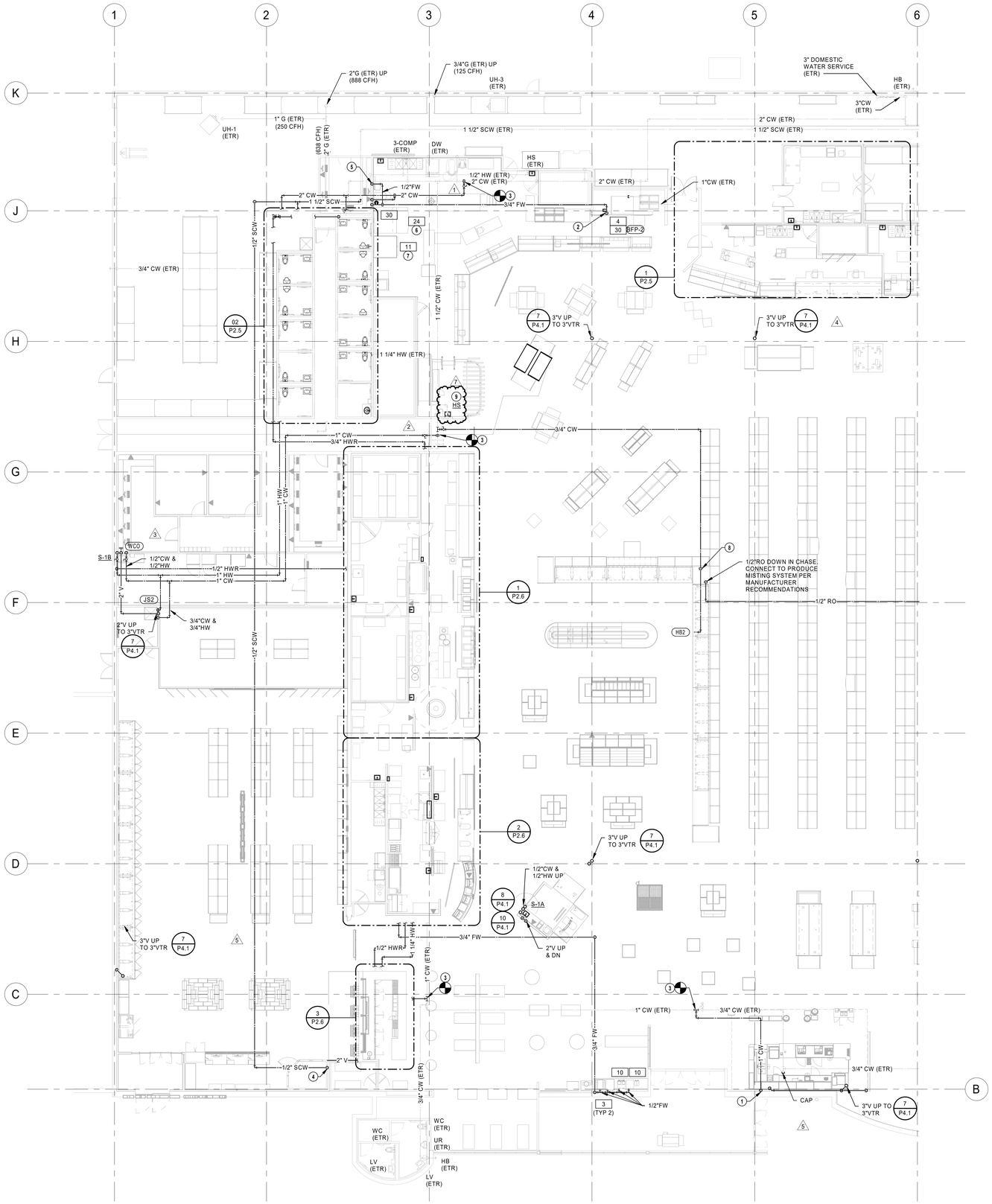
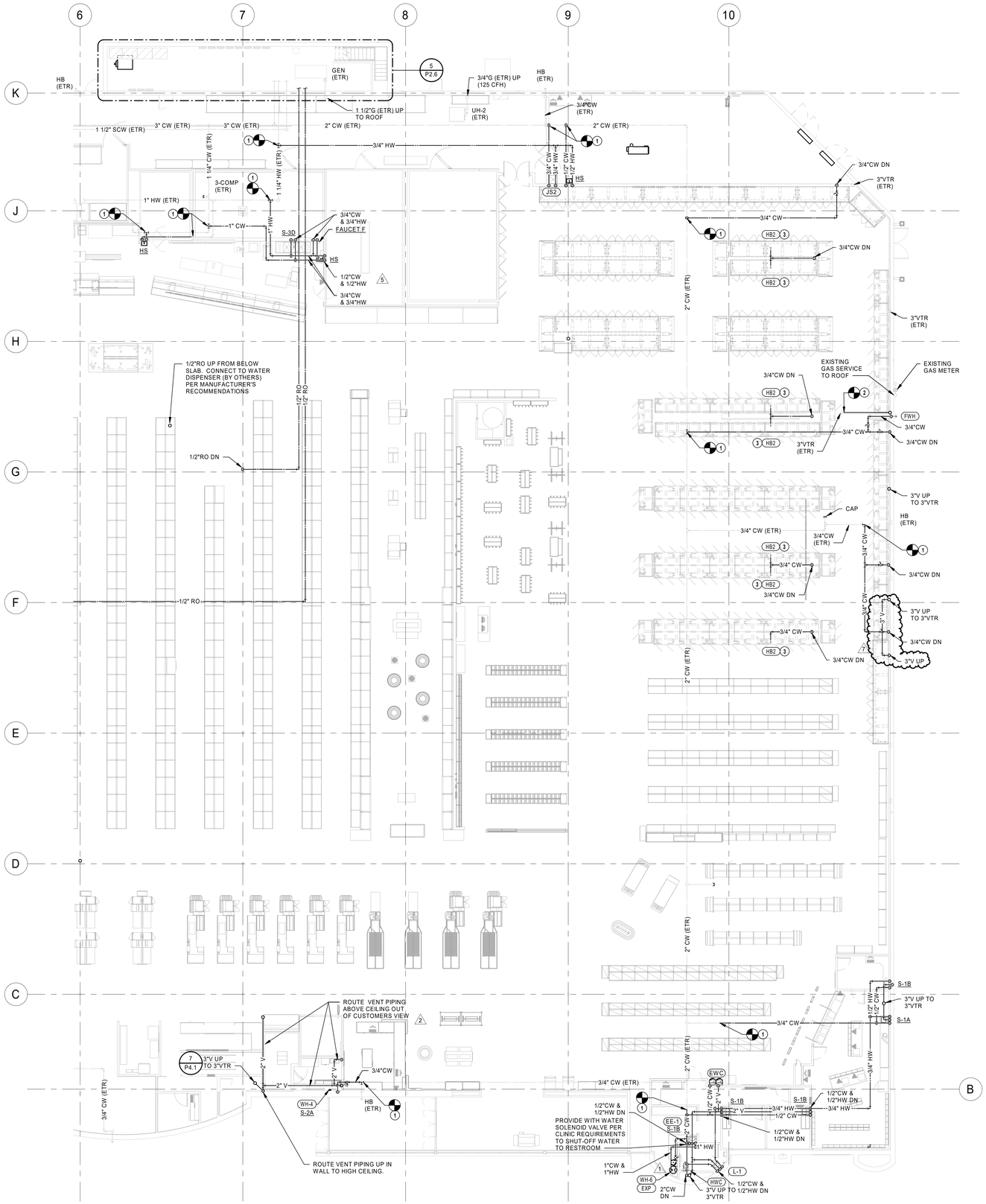
4/21/2021 9:47:46 AM


1
2
3
4
5
6
K
J
H
G
F
E
D
C
B
2"G (ETR) UP (888 CFH)
3/4"G (ETR) UP (125 CFH)
UH-3 (ETR)
3" DOMESTIC WATER SERVICE (ETR)
HB (ETR)
3"CW (ETR)
1" G (ETR) (250 CFH)
UH-1 (ETR)
1 1/2" SCW (ETR)
2" CW (ETR)
1 1/2" SCW (ETR)
3-COMP (ETR)
DW (ETR)
HS (ETR)
1/2" HW (ETR)
2" CW (ETR)
1/2"FW
2" CW
1 1/2" SCW
3/4" FW
2" CW (ETR)
1"CW (ETR)
SFP-2
3/4" CW (ETR)
1/2" SCW
1 1/2" CW (ETR)
1 1/4" HW (ETR)
3"V UP TO 3"VTR
1" CW
3/4" HWR
3/4" CW
1" HW
1" CW
1/2"CW & 1/2"HW
1/2" HWR
1" HW
1" CW
2" V
3/4"CW & 3/4"HW
2"V UP TO 3"VTR
1/2" SCW
1/2"RO DOWN IN CHASE, CONNECT TO PRODUCE MISTING SYSTEM PER MANUFACTURER RECOMMENDATIONS
1/2" RO
1/2"CW & 1/2"HW UP
S-1A
2"V UP & DN
3/4" FW
1" CW (ETR)
3/4" CW (ETR)
3/4" FW
1/2"FW
(TYP 2)
CAP
3"V UP TO 3"VTR
WC (ETR)
UR (ETR)
HB (ETR)
LV (ETR)
WC (ETR)
LV (ETR)
3/4" CW (ETR)
1" CW
1/2" SCW
2" V
1/2" SCW
1/2" SCW
1 1/4" HW
1/2" HWR
1" CW (ETR)
2" V
1/2" SCW
1/2" SCW
1/2" SCW



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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		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

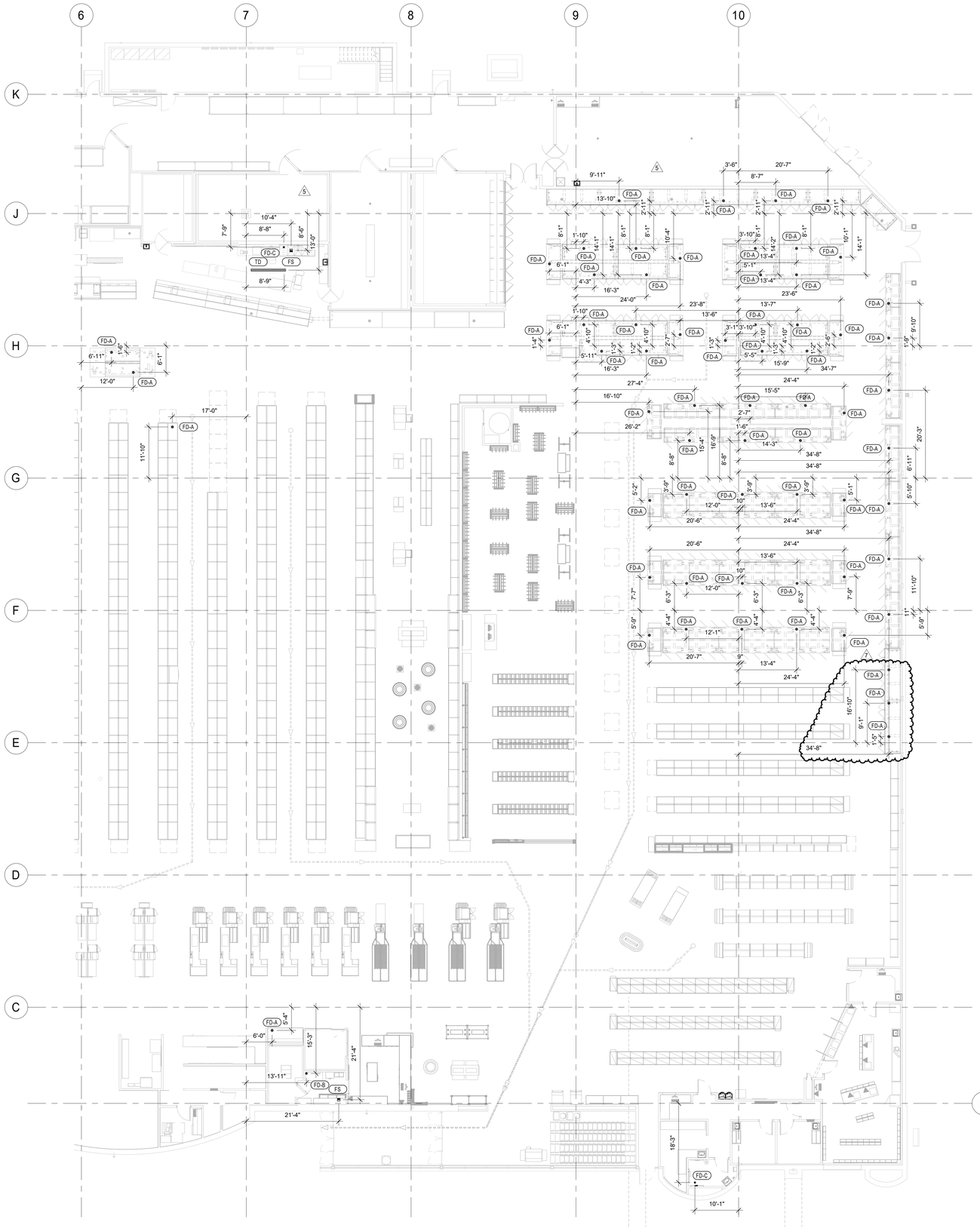
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HEI	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
P2.0B

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT CUP/ALT/ SUBMIT, MINISTRY

REVISION		BY
5	ASI #5	04/22/2021
7	ASI #7	04/16/21



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

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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LEE'S SUMMIT, MO

REVISION		
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

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.

HENDERSON ENGINEERS
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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

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

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

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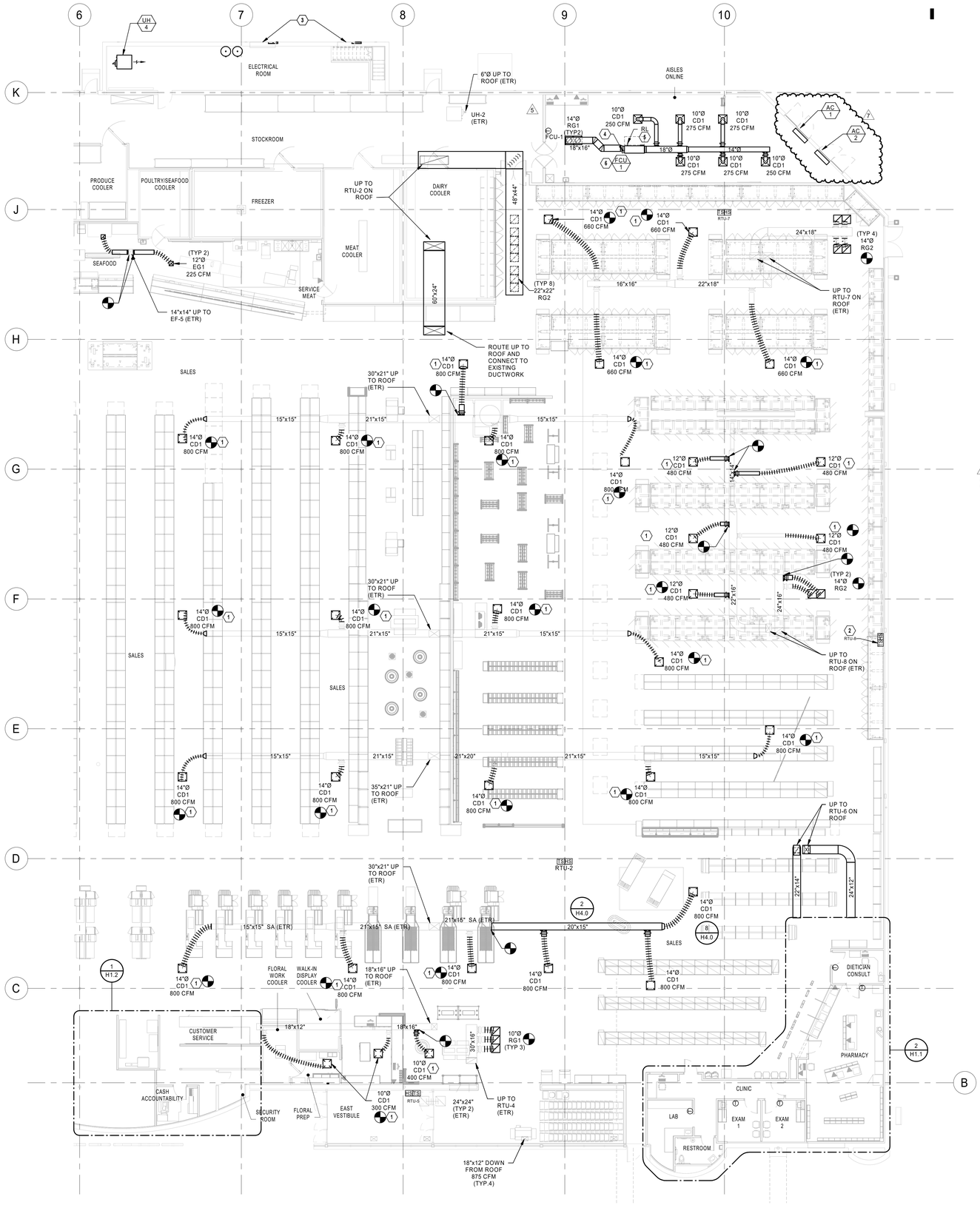
REVISION		BY
5	ASI #5	04/22/2021
7	ASI #7	04/16/21



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.

5 6

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.

7

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

7

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.

5

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
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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

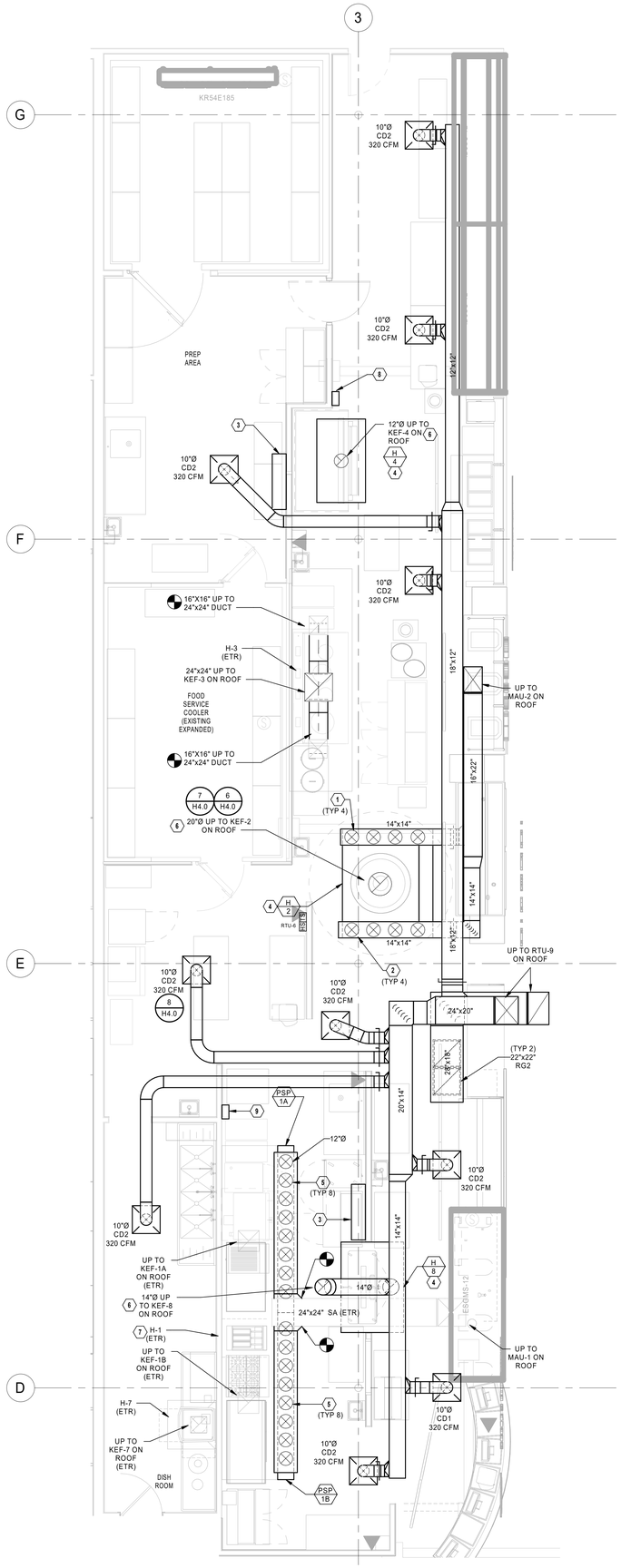
NORTH PLAN NORTH

HVAC FLOOR PLAN - PART B

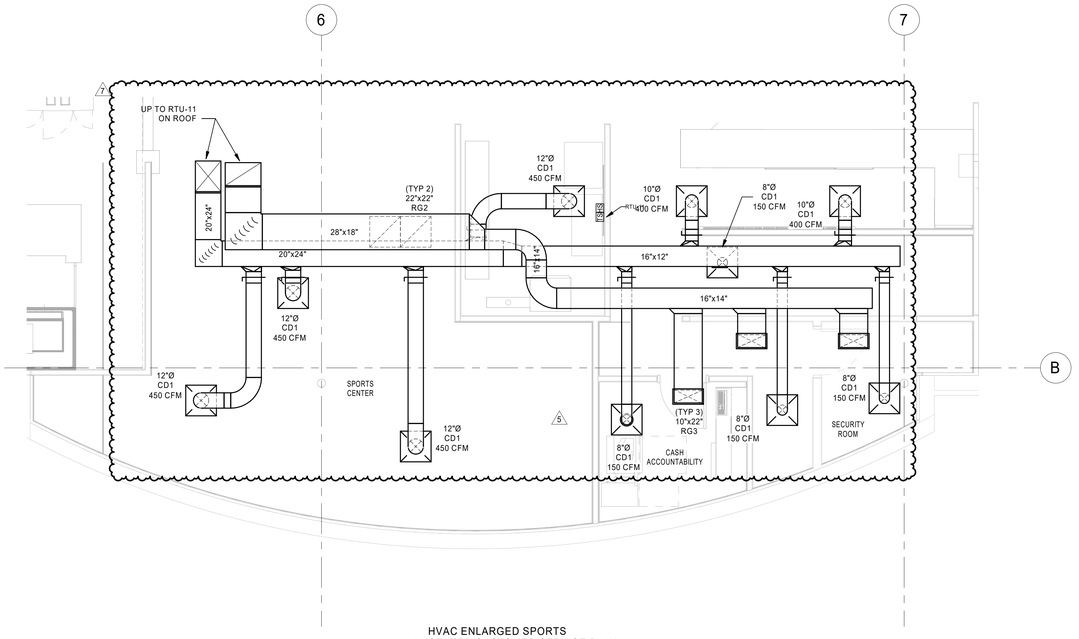
PROJECT MANAGER	CHECKED BY:
SL	Checker
DRAWN BY:	DATE:
Author	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
PER CITY PERMIT SUBMITTAL REQUIREMENTS

REVISION		BY
5	ASI #5	04/22/2021
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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOTE: PERMIT, SUBMITT, MISSING
BY:
04/22/2021

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

PANELBOARD: B (EXISTING)

FED FROM: MDP1 — LINE-SIDE LUGS: MECHANICAL
BUS AMPS: 225A — AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: LIGHTING
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: SURFACE
SECTION: 1 — LOCATION: ELECTRICAL ROOM

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	
	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
	35	**LTG - WINE RDOM 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
TOTAL PHASE A - VA	9,868	COOLING			1.00
AMPS	82	HEATING			0
TOTAL PHASE B - VA	9,885	LIGHTING		14,076	1.25
AMPS	82	RECEPTACLES			1.0/.5
TOTAL PHASE C - VA	8,523	MOTORS			1.00
AMPS	71	SUPP HEAT			1.00
TOTAL PNLBD - VA	28,276	MISC EQUIP			1.00
AMPS	78				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN		1.00
EXISTING	15,400	1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
32,995 VA
92 A

PANELBOARD NOTES

PANELBOARD: CL (NEW)

FED FROM: KP — LINE-SIDE LUGS: MECHANICAL
BUS AMPS: 100A — AIC RATING: FCA +10% MINIMUM FULLY RATED — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: CLINIC
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: RECESSED
SECTION: 1 — LOCATION: CLINIC STORAGE

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	N
	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
TOTAL PHASE A - VA	2,170	COOLING			1.00
AMPS	18	HEATING			0
TOTAL PHASE B - VA	1,730	LIGHTING			1.25
AMPS	14	RECEPTACLES		6,720	1.0/.5
TOTAL PHASE C - VA	2,850	MOTORS			1.00
AMPS	24	SUPP HEAT			1.00
TOTAL PNLBD - VA	6,750	MISC EQUIP		30	1.00
AMPS	19				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN		1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
6,750 VA
19 A

PANELBOARD NOTES

PANELBOARD: D (EXISTING)

FED FROM: MDP1 — LINE-SIDE LUGS: MECHANICAL
BUS AMPS: 225A — AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: LIGHTING
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: SURFACE
SECTION: 1 — LOCATION: ELECTRICAL ROOM

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													EQUIPPED SPACE	42		
		SUBTOTAL	6,600	8,000	6,800									8,400	8,400	7,200	SUBTOTAL	

		LOAD		CONN. VA	DF
TOTAL PHASE A - VA	15,000	COOLING			1.00
AMPS	125	HEATING			0
TOTAL PHASE B - VA	16,400	LIGHTING		6,000	1.25
AMPS	137	RECEPTACLES			1.0/.5
TOTAL PHASE C - VA	14,000	MOTORS			1.00
AMPS	117	SUPP HEAT			1.00
TOTAL PNLBD - VA	45,400	MISC EQUIP			1.00
AMPS	126				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN		1.00
EXISTING	40,600	1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
48,100 VA
134 A

PANELBOARD NOTES

PANELBOARD: E (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A — AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: KITCHEN/DELI
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: RECESSED
SECTION: 1 — LOCATION: DRY STORAGE

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*	*1*	*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
TOTAL PHASE A - VA	27,342	COOLING			1.00
AMPS	228	HEATING			0
TOTAL PHASE B - VA	19,489	LIGHTING			1.25
AMPS	162	RECEPTACLES		900	1.0/.5
TOTAL PHASE C - VA	17,994	MOTORS		11,277	1.00
AMPS	150	SUPP HEAT			1.00
TOTAL PNLBD - VA	64,825	MISC EQUIP			1.00
AMPS	180				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN	34,656	0.65
EXISTING	17,992	1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
52,695 VA
146 A

PANELBOARD NOTES

PANELBOARD: F (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A — AIC RATING: 10000 FULLY RATED — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: DELI
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: RECESSED
SECTION: 1 — LOCATION: DRY STORAGE

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
N	3	**180lb MIXER**		4,083		6	45	3			*1*	*20*	*EX*		*500*		*EXISTING LOAD*	4
	5				4,083						*1*	*20*	*EX*			*500*	*EXISTING LOAD*	6
EX	7	*BREAD SLICER DROP*	*500*			*EX*	*20*	*1*			*1*	*20*	*EX*	*500*			*EXISTING LOAD*	8
EX	9	*KEF-5*		*516*		*EX*	*20*	*1*	*1*	*20*	*EX*				*500*		*EXISTING LOAD*	10
N	11	**BAKERY TABLE MICROWAVE**			1,000	12	20	1	1	20	*EX*					*500*	*EXISTING LOAD*	12
	13	EQUIPPED SPACE																
EX	15	*DONUT HOOD*		*500*		*EX*	*20*	*1*			*1*	*20*	12		1,200		**BAKERY TABLE COMP/PRINTER**	16
EX	17	*RCPT UNDER DONUT HOOD*			*500*	*EX*	*20*	*1*			*1*	*20*	12			*500*	**BAKERY TABLE MONITOR**	18
	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
	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
	29				*1,664*				1	20	12				360		**BAKERY FLOOR BOXES 2/SCALE**	30
	31		1,921						1	20	12	500					**BAKERY RACK OVEN CONTROL**	32
N	33	**BAKERY RACK OVEN**		1,921		12	20	3	1	20	12			500			**BAKERY FLOOR SCALES**	34
	35				1,921				1	20	*EX*				*500*		*EXISTING LOAD*	36
	37		*4,803*						1	20	*EX*	*500*					*EXISTING LOAD*	38
EX	39	*BAKERY FRYER*		*4,803*		*EX*	*50*	*3*	*1*	*20*	*EX*		*500*				*EXISTING LOAD*	40
	41				*4,803*				1	20	12				1,700	*EX*	*EXISTING LOAD*	42
		SUBTOTAL	16,108	15,408	15,892									4,921	5,481	5,181	SUBTOTAL	

		LOAD		CONN. VA	DF
TOTAL PHASE A - VA	21,029	COOLING			1.00
AMPS	175	HEATING			0
TOTAL PHASE B - VA	20,889	LIGHTING			1.25
AMPS	174	RECEPTACLES		1,420	1.0/.5
TOTAL PHASE C - VA	21,073	MOTORS		516	1.00
AMPS	176	SUPP HEAT			1.00
TOTAL PNLBD - VA	62,991	MISC EQUIP			1.00
AMPS	175				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN	28,675	0.65
EXISTING	32,880	1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
53,455 VA
148 A

PANELBOARD NOTES

PANELBOARD: G (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A — AIC RATING: 10000 FULLY RATED — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: MEAT & SEAFOOD POWER
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: SURFACE
SECTION: 1 — LOCATION: ELECTRICAL ROOM

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			**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	
R	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	
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
TOTAL PHASE A - VA	12,835	COOLING			1.00
AMPS	107	HEATING			0
TOTAL PHASE B - VA	9,723	LIGHTING		1,700	1.25
AMPS	81	RECEPTACLES		7,332	1.0/.5
TOTAL PHASE C - VA	11,042	MOTORS		15,718	1.00
AMPS	92	SUPP HEAT			1.00
TOTAL PNLBD - VA	33,600	MISC EQUIP		180	1.00
AMPS	93				

LOAD	CONN. VA	DF
REFRIG		1.00
SIGN/DISP		1.25
KITCHEN	2,170	0.70
EXISTING	6,500	1.00
LRG MOTOR		1.25
SHOW WNDW		1.25
LTG TRACK		1.00

TOTAL DEMAND
33,374 VA
93 A

PANELBOARD NOTES

PANELBOARD: H (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A — AIC RATING: 10000 FULLY RATED — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — SERVES: MEAT & SEAFOOD POWER
VOLTS/PHASE: 208Y/120V, 3PH, 4W — MOUNTING: SURFACE
SECTION: 1 — LOCATION: ELECTRICAL ROOM

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*	*E

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO BE USED FOR PERMIT, MEP/FP SUBMITTAL

REVISION		BY
2	ASI #2	04/22/2021
3	ASI #3	01/26/21
4	ASI #4	02/05/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21

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					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	LOAD	CONN. VA	DF		
AMPS	145	COOLING		1.00	REFRIG		1.00	REFRIG		1.00		
TOTAL PHASE B - VA	17,230	HEATING		0	SIGN/DISP		1.25	SIGN/DISP		1.25		
AMPS	144	LIGHTING	3,502	1.25	KITCHEN		0.90	KITCHEN		1.00		
TOTAL PHASE C - VA	18,990	RECEPTACLES	8,280	1.0/.5	EXISTING	32,778	1.00	EXISTING		1.00		
AMPS	158	MOTORS		1.00	LRG MOTOR		1.25	LRG MOTOR		1.25	TOTAL DEMAND	
TOTAL PNLBD - VA	53,590	SUPP HEAT		1.00	SHOW WNDW		1.25	SHOW WNDW		1.25	54,466 VA	
AMPS	149	MISC EQUIP	9,030	1.00	LTG TRACK		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	
4	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	LOAD	CONN. VA	DF		
AMPS	27	COOLING		1.00	REFRIG		1.00	REFRIG		1.00		
TOTAL PHASE B - VA	3,250	HEATING		0	SIGN/DISP		1.25	SIGN/DISP		1.25		
AMPS	27	LIGHTING		1.25	KITCHEN		1.00	KITCHEN		1.00		
TOTAL PHASE C - VA	2,890	RECEPTACLES	9,360	1.0/.5	EXISTING		1.00	EXISTING		1.00		
AMPS	24	MOTORS		1.00	LRG MOTOR		1.25	LRG MOTOR		1.25	TOTAL DEMAND	
TOTAL PNLBD - VA	9,390	SUPP HEAT		1.00	SHOW WNDW		1.25	SHOW WNDW		1.25	9,390 VA	
AMPS	26	MISC EQUIP	30	1.00	LTG TRACK		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 2BR 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			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										6,542	5,526	6,472	SUBTOTAL		

TOTAL PHASE A - VA	26,357	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF		
AMPS	220	COOLING		0	REFRIG		1.00	REFRIG		1.00		
TOTAL PHASE B - VA	25,201	HEATING	5,726	1.00	SIGN/DISP		1.25	SIGN/DISP		1.25		
AMPS	210	LIGHTING		1.25	KITCHEN		1.00	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	75,942	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.	
4	1	*PHARMACY LT LIXT*	1,200			EX	20	1			5,356					2	
	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
2 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	EX
	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
2 R	23	***EX. FAN EF-6***			500	EX	20	1	1	20	EX			500	*EXISTING LOAD*	24	EX
2 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	11,590							8,276	10,212	10,572	SUBTOTAL		

TOTAL PHASE A - VA	17,446	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF		
AMPS	145	COOLING	16,068	1.00	REFRIG		1.00	REFRIG		1.00		
TOTAL PHASE B - VA	17,782	HEATING		0	SIGN/DISP		1.25	SIGN/DISP		1.25		
AMPS	148	LIGHTING	3,600	1.25	KITCHEN		1.00	KITCHEN		1.00		
TOTAL PHASE C - VA	22,072	RECEPTACLES	5,640	1.0/.5	EXISTING	13,892	1.00	EXISTING		1.00		
AMPS	184	MOTORS		1.00	LRG MOTOR		1.25	LRG MOTOR		1.25	TOTAL DEMAND	
TOTAL PNLBD - VA	57,300	SUPP HEAT	16,600	1.00	SHOW WNDW		1.25	SHOW WNDW		1.25	58,200 VA	
AMPS	159	MISC EQUIP	1,500	1.00	LTG TRACK		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
5 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	EX				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	LOAD	CONN. VA	DF		
AMPS	124	COOLING		1.00	REFRIG		1.00	REFRIG	1,000	1.00		
TOTAL PHASE B - VA	15,626	HEATING		0	SIGN/DISP		1.25	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
	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	LOAD	CONN. VA	DF		
AMPS	104	COOLING	16,068	1.00	REFRIG		1.00	REFRIG		1.00		
TOTAL PHASE B - VA	15,246	HEATING	11,500	0	SIGN/DISP		1.25	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	1	20	12			360	**FROZEN CASE RCPT 2**	12	R
	13		3,843					1	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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT, SUBMIT, MISSING

REVISION		BY
2	ASI #2	04/22/202
4	ASI #4	02/05/21
7	ASI #7	04/16/21

PANELBOARD: VV (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
MAIN SIZE/TYPE: MLO
SERVES: BACK OF HOUSE
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
LOCATION: DRY STORAGE
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.	
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*	*EX*		360		**DSD ROOM RCPTS**	4	R
EX	5	*BACKROOM LIGHTS*			*1,200*	*EX*	*20*	*1*	*1*	*20*	*EX*			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*	*1*	*20*	12	*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		

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

PANELBOARD NOTES

PANELBOARD: W (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
MAIN SIZE/TYPE: MLO
SERVES: DELI
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
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		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	N
	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*	*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*	*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		

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

PANELBOARD NOTES

PANELBOARD: X (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A
AIC RATING: 10000 FULLY RATED
MAIN SIZE/TYPE: MLO
SERVES: KITCHEN
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
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.	
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		

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

PANELBOARD NOTES

PANELBOARD: AA1 (EXISTING)

FED FROM: MDP1
BUS AMPS: 225A
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
MAIN SIZE/TYPE: MLO
SERVES: FRONT OF HOUSE
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
LOCATION: CUSTOMER SERVICE
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.	
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*					*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		

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

PANELBOARD NOTES

PANELBOARD: AA2 (NEW)

FED FROM: MDP2
BUS AMPS: 225A
AIC RATING: 10000 FULLY RATED
MAIN SIZE/TYPE: MLO
SERVES: CLINIC HALL
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
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	*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						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		

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

PANELBOARD NOTES

PANELBOARD: AB (RELOCATED)

FED FROM: MDP2
BUS AMPS: 225A
AIC RATING: 10000 FULLY RATED
MAIN SIZE/TYPE: MLO
SERVES: REFRIGERATION
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: RECESSED
SECTION: 1
LOCATION: ABOVE MILK/DAIRY COOLER
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	*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
7 EX	19	*DAIRY CASES*	*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				500	SPARE	24	V
7 EX	25	*DAIRY CASES*	*500*			*EX*	*20*	*1*	*1*	*20*	*EX*	*500*			*PANEL RCPT*	26	EX 7
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										5,408			**AISLES ONLINE**	38	
N	39	**CU-1**	2,915			8	45	2	2	45	6		4,472		**FCU-1 B**	40	N
	41	**AISLES ONLINE**		2,915										4,472	**AISLES ONLINE**	42	
		SUBTOTAL	7,304	10,216	10,216							12,908	14,647	15,955	SUBTOTAL		

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

PANELBOARD NOTES

PANELBOARD: BB (NEW)

FED FROM: MDP1
BUS AMPS: 225A
AIC RATING: 10000 FULLY RATED
MAIN SIZE/TYPE: MLO
SERVES: FRONT OF HOUSE
VOLTS/PHASE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
SECTION: 1
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	**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				**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
2	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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT, BIDDING,
PERMIT, OR CONSTRUCTION

REVISION		BY
4	ASI #4	04/22/2021
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) KR26AA089 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	20	12	288				(A9) 29 IM05R FANS	20	LCK
	21	EQUIPPED SPACE					20	1	20	12			528		(A9) 29 IM05R LTS	22	LCK
LCK	23	(A6) (3)KR48A216 FANS			1,152	12	20	1	20	12				996	(A10) FSP964R+FSP7242R	24	LCK
LCK	25	(A8) IM05R FANS	288			12	20	1	20	12	480				(A12) 62 IDSSL FANS	26	LCK
LCK	27	(A8) IM05R LTS		528		12	20	1	20	12			864		(A12) 62 IDSSL 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 IDSSL FANS	34	LCK
	35				3,831				1	20	12			528	(A11) 38 IDSSL 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	LOAD		CONN. VA	DF	LOAD	CONN. VA	DF
AMPS	235	COOLING			1.00	REFRIG	76,740	1.00
TOTAL PHASE B - VA	28,616	HEATING			0	SIGN/DISP		1.25
AMPS	238	LIGHTING		3,228	1.25	KITCHEN		1.00
TOTAL PHASE C - VA	29,180	RECEPTACLES		1,080	1.0/.5	EXISTING		1.00
AMPS	243	MOTORS		4,476	1.00	LRG MOTOR		1.25
TOTAL PNLBD - VA	86,004	SUPP HEAT		480	1.00	SHOW WNDW		1.25
AMPS	239	MISC EQUIP			1.00	LTG TRACK		1.00

TOTAL DEMAND
86,811 VA
241 A

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

TOTAL DEMAND
115,992 VA
322 A

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	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 RLNI FANS/HTRS	40	LCK
	41				3,276				1	20	12			996	(C7) 5 DR RLNI 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	4
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	LOAD		CONN. VA	DF	LOAD	CONN. VA	DF
AMPS	296	COOLING			1.00	REFRIG	60,820	1.00
TOTAL PHASE B - VA	33,300	HEATING			0	SIGN/DISP		1.25
AMPS	278	LIGHTING		3,660	1.25	KITCHEN		1.00
TOTAL PHASE C - VA	30,652	RECEPTACLES		1,080	1.0/.5	EXISTING		1.00
AMPS	255	MOTORS		33,912	1.00	LRG MOTOR		1.25
TOTAL PNLBD - VA	99,472	SUPP HEAT			1.00	SHOW WNDW		1.25
AMPS	276	MISC EQUIP			1.00	LTG TRACK		1.00

TOTAL DEMAND
100,387 VA
279 A

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	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		2,016			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	LOAD		CONN. VA	DF	LOAD	CONN. VA	DF
AMPS	430	COOLING			1.00	REFRIG		1.00
TOTAL PHASE B - VA	50,683	HEATING			0	SIGN/DISP		1.25
AMPS	422	LIGHTING			1.25	KITCHEN		1.00
TOTAL PHASE C - VA	43,728	RECEPTACLES		1,440	1.0/.5	EXISTING		1.00
AMPS	364	MOTORS			1.00	LRG MOTOR		1.25
TOTAL PNLBD - VA	145,958	SUPP HEAT		144,518	0.30	SHOW WNDW		1.25
AMPS	405	MISC EQUIP			1.00	LTG TRACK		1.00

TOTAL DEMAND
44,795 VA
124 A

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

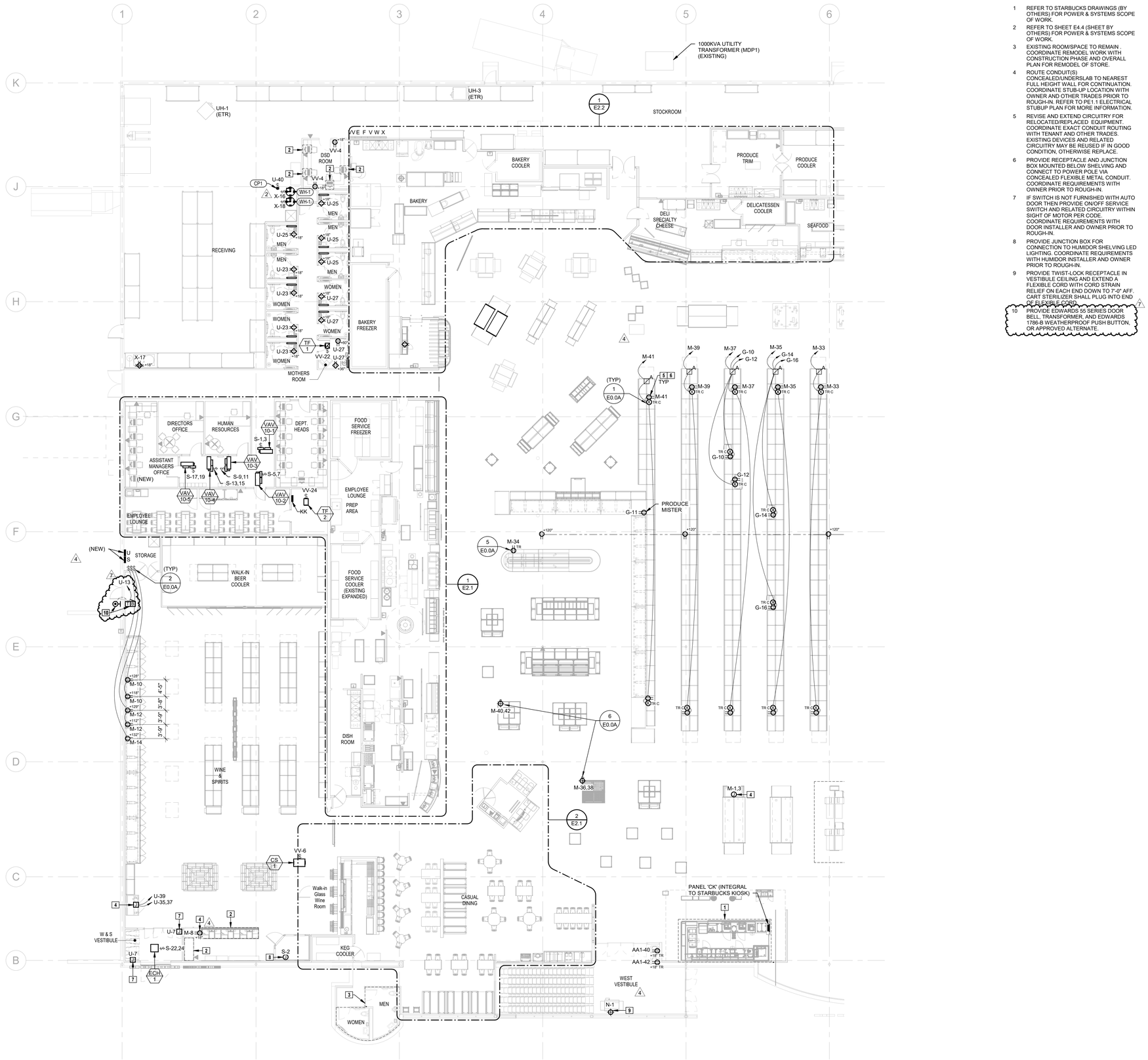
	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,424			ZBD45KCE	2	
LCK	3	(E1) 30 IM05R FANS		360		12	20	1	3	30	10		2,424		COMP #1	4	LCK
LCK	5	(E1) 30 IM05R LTS			708	12	20	1						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 IDSSU FANS			228	12	20	1						1,692		12	
4 LCK	13	(E3) 24 IDSSU 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
4 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) LH36A94 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																4
	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	4
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				

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT, SUBMIT, MISSING

REVISION		BY
2	ASI #2	04/22/2021
4	ASI #4	03/05/21
7	ASI #7	04/16/21

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.



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

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

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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 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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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REVISION		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
	04/22/2021	

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.

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

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PROFESSIONAL SEAL

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

04/21/2021

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LICENSE # PE-2008008670

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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

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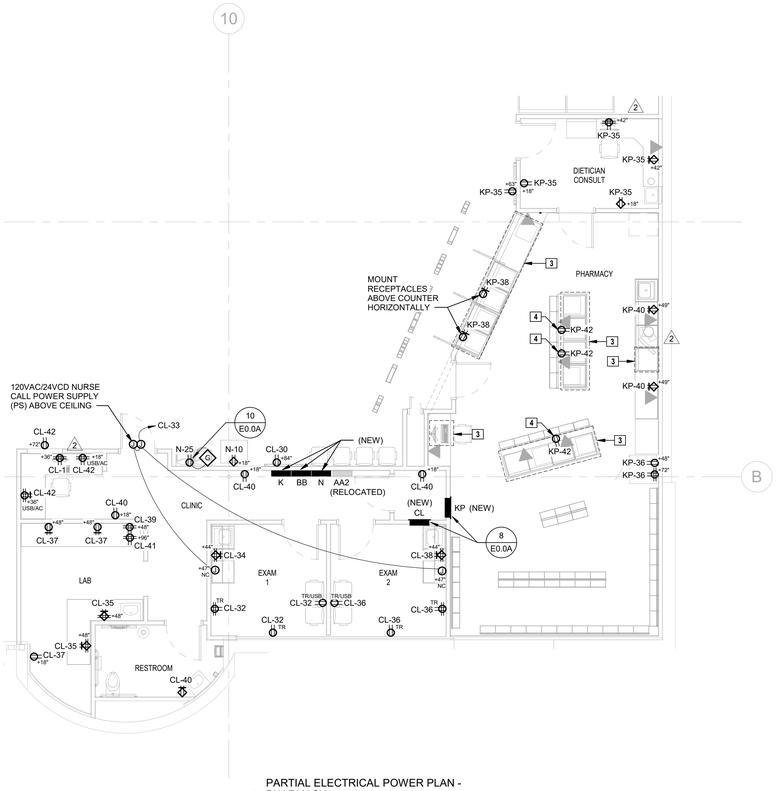
7	ASI #7	04/16/21

ELECTRONIC MENU MONITOR BOARD SCHEDULE

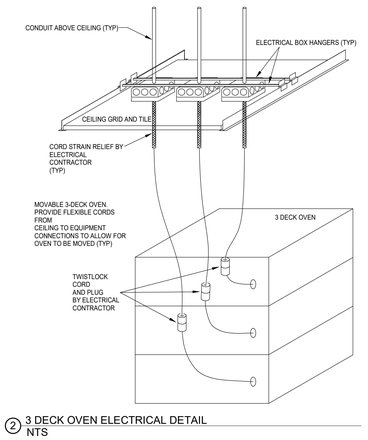
LOCATION	AMOUNT AND SIZE	HEIGHT	MOUTNING
SUSHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MARKET GRILLE EXPRESS	(3) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HICKORY HOUSE	(4) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HIBACHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
ASIAN	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
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"

ELECTRICAL PLAN NOTES

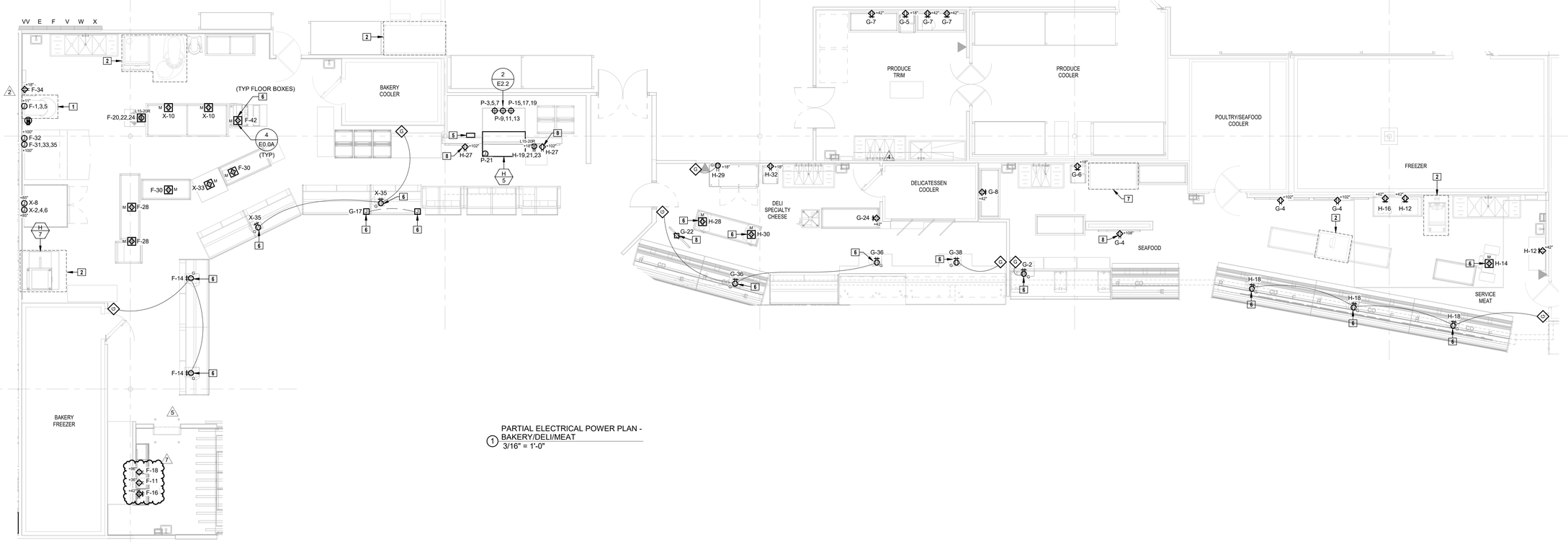
1. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
2. EXISTING KITCHEN EQUIPMENT TO REMAIN.
3. REFER TO SHEET E4.4 (SHEET BY OTHERS) 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.



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



2 3 DECK OVEN ELECTRICAL DETAIL
NTS



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

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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
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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

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7	ASI #7	04/22/202104/16/21

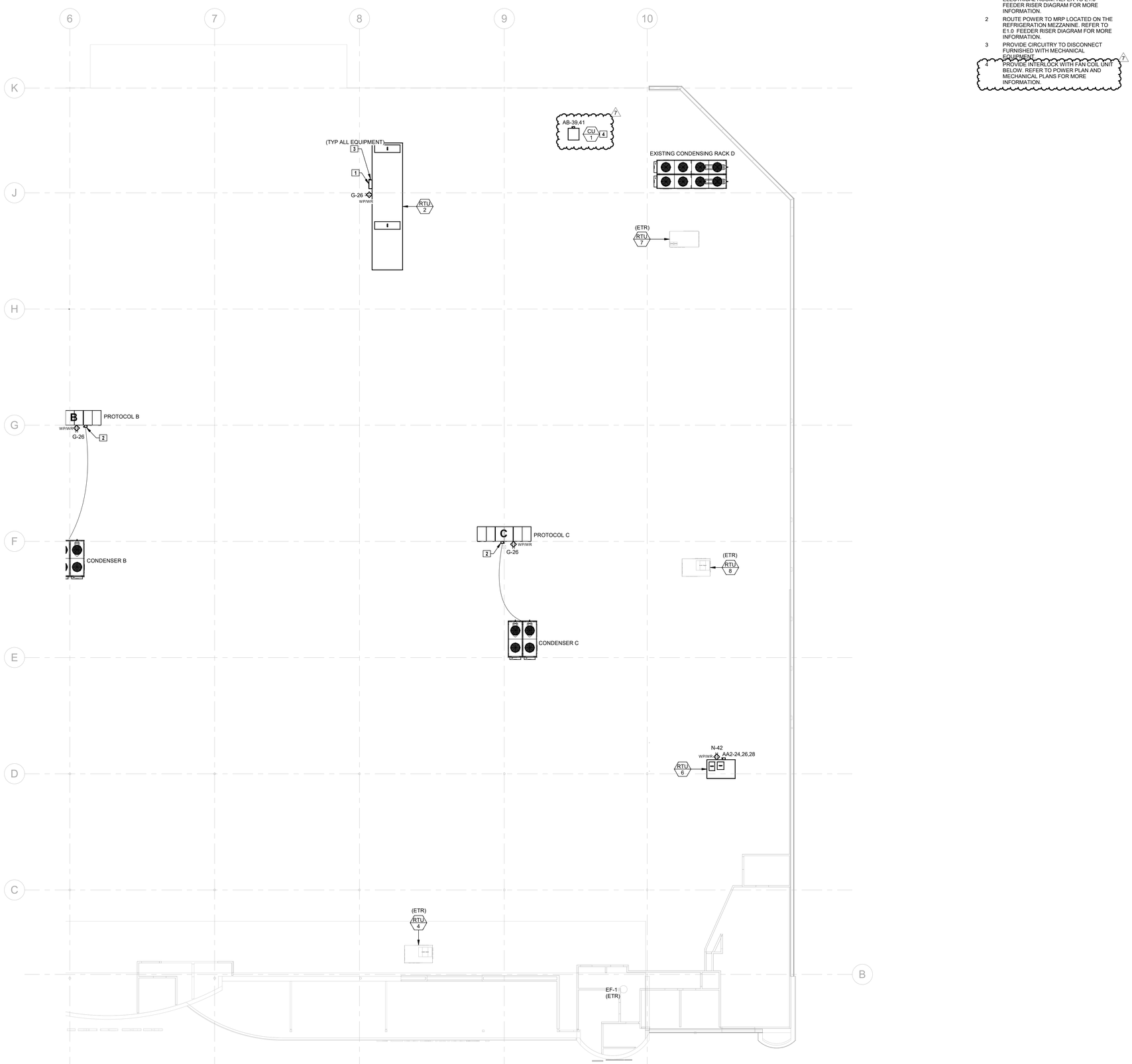
ELECTRICAL PLAN NOTES

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.



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

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VINCENT G. MASILIONIS
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04/21/2021

VINCENT G. MASILIONIS
LICENSE # PE-2008008670

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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
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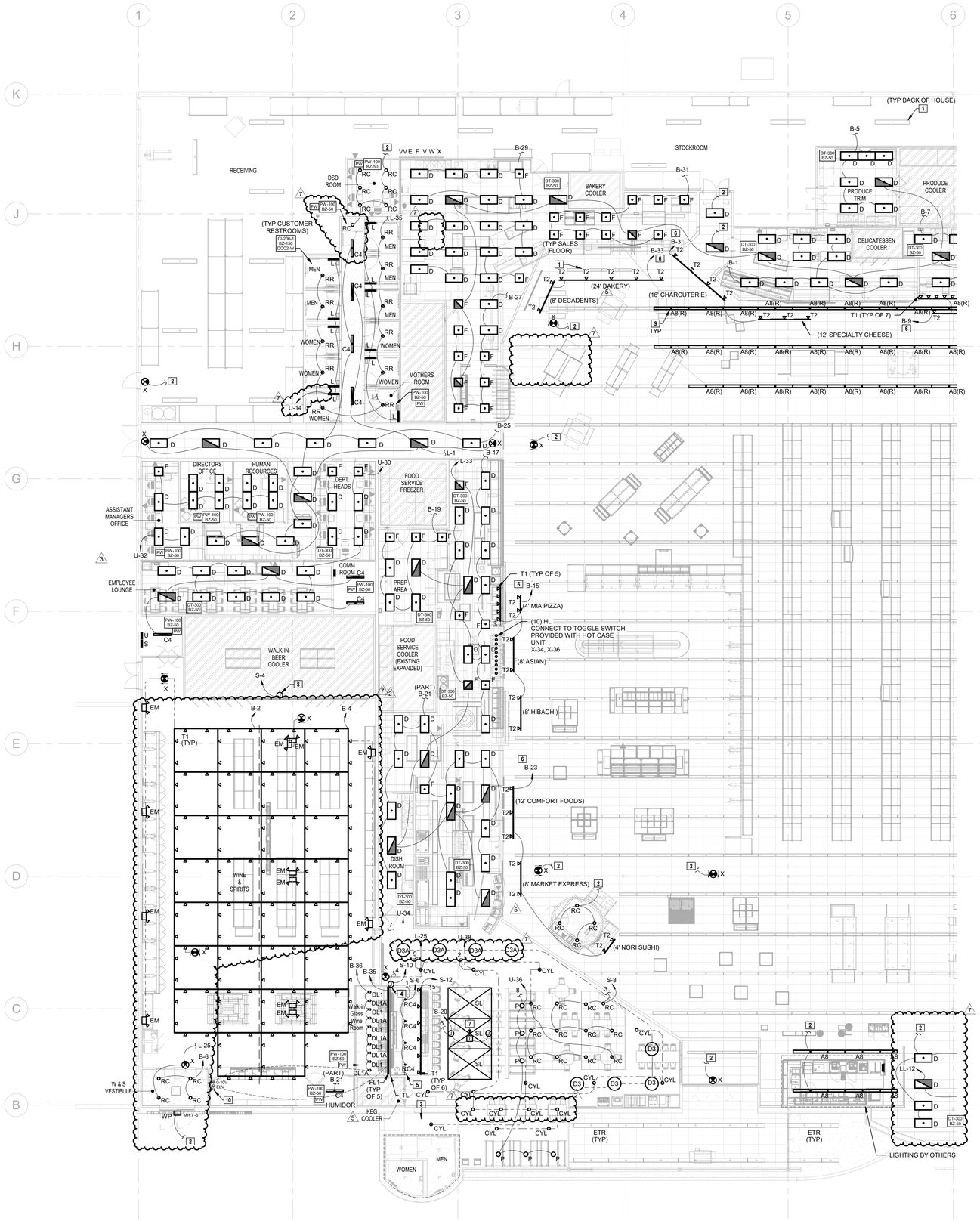
	REVISION	BY
2	ASI #2	04/22/2021
3	ASI #3	01/20/21
5	ASI #5	03/19/21
7	ASI #7	04/16/21



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.

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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:

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VINCENT G. MASILIONIS
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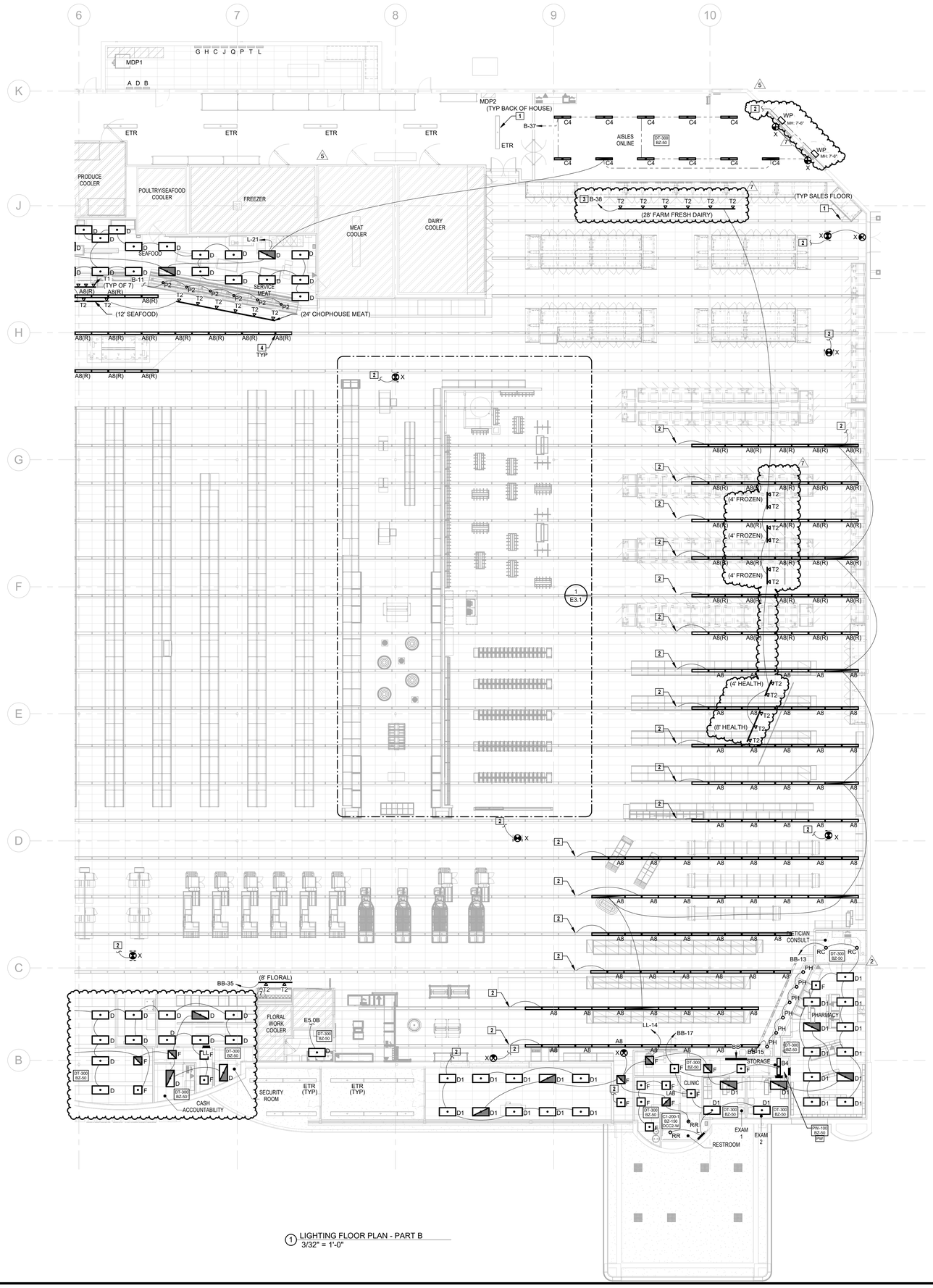

1 LIGHTING FLOOR PLAN - PART B
3/32" = 1'-0"

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT, SUBMIT, MEETING

REVISION

		BY:
2	ASI #2	04/22/2021
5	ASI #5	03/19/21
7	ASI #7	04/16/21

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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT SUBMIT, MODIFY
04/22/2021

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

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 CLI-S10KM/D2-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-307SM-12-WW/LED-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	MCP/HLBEN D8SJ 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 SEE PLAN FOR TRACK LENGTHS
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) — DT-300 BZ-50
ASIAN KITCHEN	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — DT-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 — DT-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 — DT-300 BZ-50
CHEESE ISLAND	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — DT-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 — DT-300 BZ-50
PHARMACY CONSULT. ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
DEPT HEADS OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
ASSISTANT MANAGER OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
EMPLOYEE LOUNGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
CASH ACCOUNTABILITY	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
PRODUCE PREPACK	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
SCAN ROOM OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
ACCOUNTING OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
COMMUNICATIONS CLOSET	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
WINE and SPIRITS STORAGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
CLINIC/EXAM ROOMS	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-300 BZ-50
HOME COOKING ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — DT-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 — CI-200-1 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

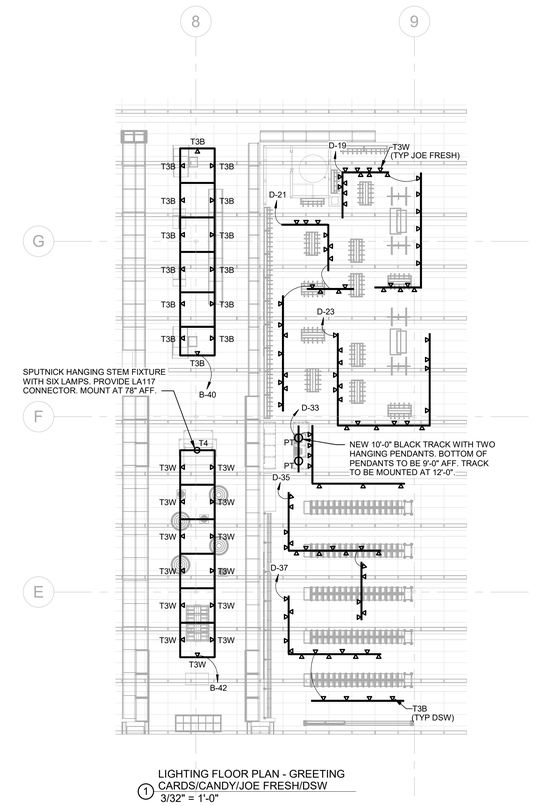
2 / E3.1 'MARKET GRILLE' LIGHTING SWITCH LAYOUT
SCALE: NONE

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)	ELV 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"

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

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5820 WESTOWN PARKWAY
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Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

LIGHTING SCHEDULES AND DETAILS

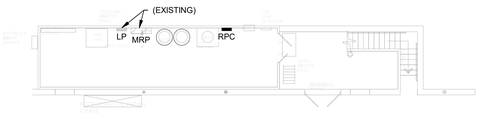
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

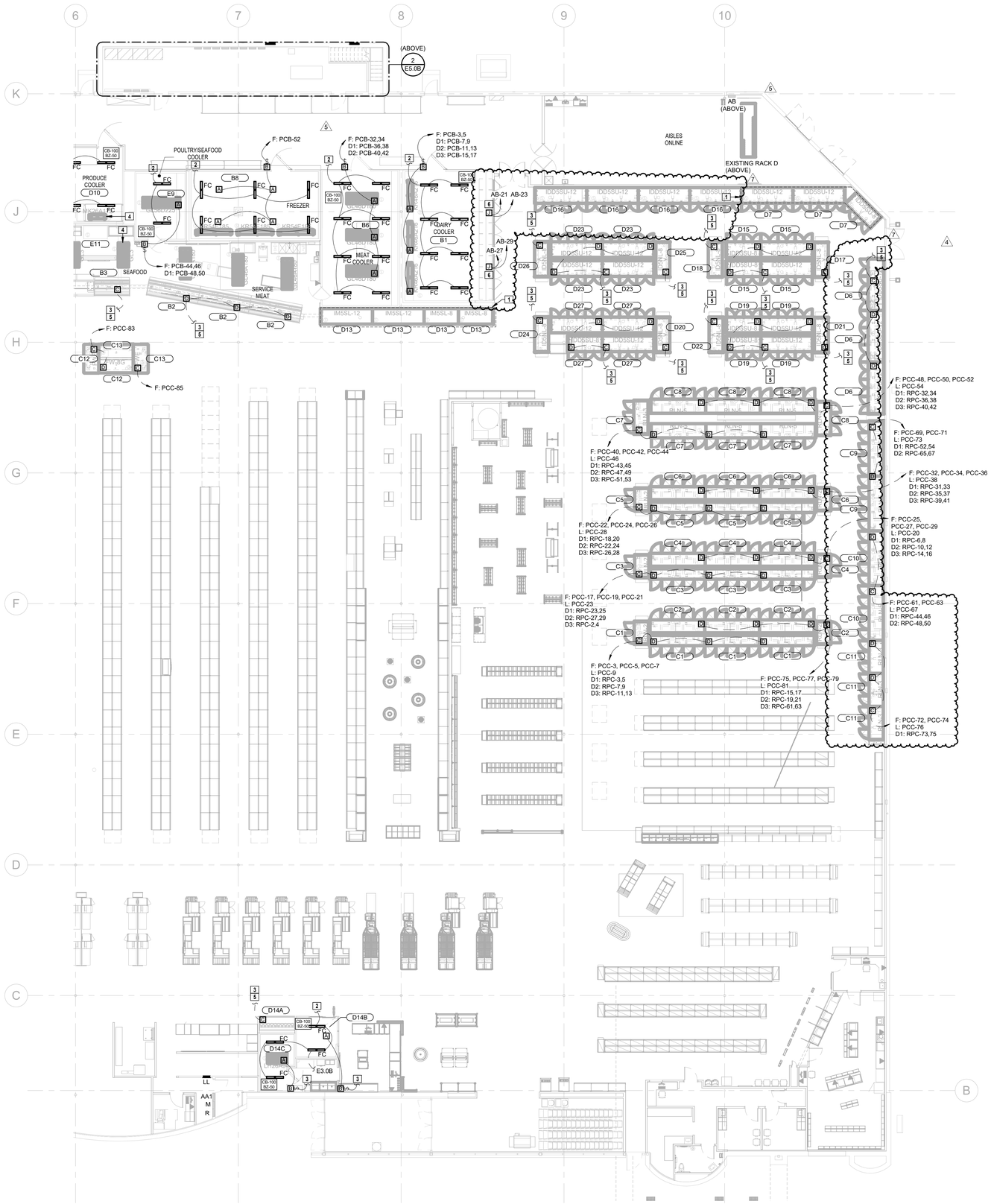
E3.1

VINCENT G. MASILIONIS

4/20/2021 3:23:41 PM



ELECTRICAL PLAN - REFRIGERATION
MEZZANINE
2 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 SITE.
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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT TO PERMIT SUBMIT, MISSING

	REVISION	BY
4	ASI #4	04/22/202
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
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Hy-Vee® 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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DIVELBISS SERVICES
LEE'S SUMMIT, MISSOURI
DATE: 08/26/2021

REVISION		
BY		
1	2020 PRODUCE CASE REMODEL	08/26/2021
2	ASI #4	02/08/21
3	ASI #7	04/20/21

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

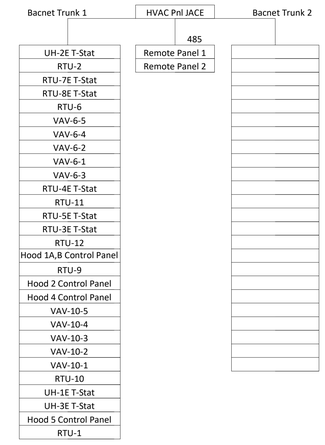
Network for VAV's will terminate in the VAV damper section next to electric

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



ENGINEER SEAL

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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

PRELIMINARY - NOT FOR CONSTRUCTION

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

SHEET:

E6.1

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.

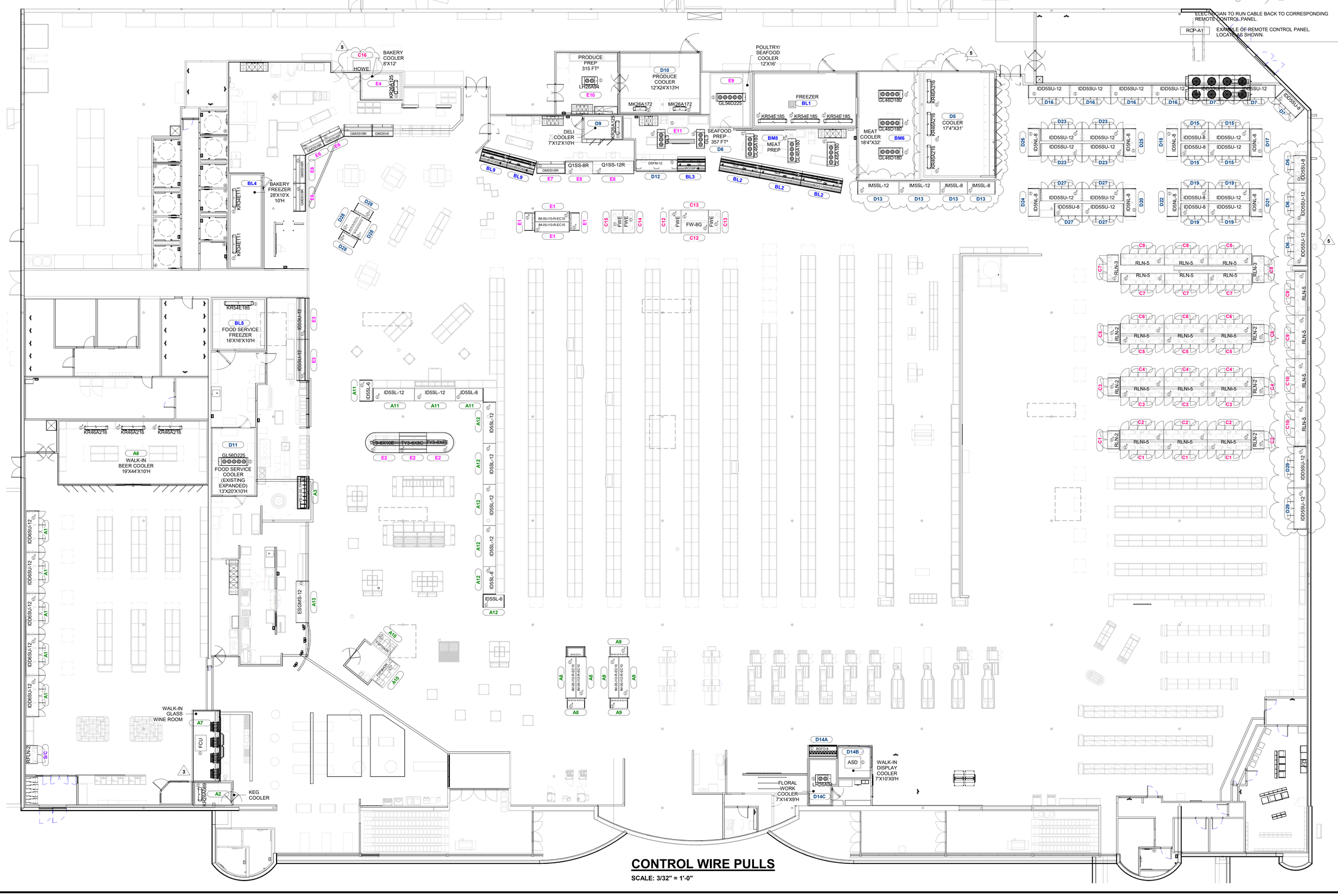
F ELECTRICIAN TO PROVIDE (1) 18-2 CABLE TO THE FIXTURE FROM THE CONTROLLER FOR A CLEAN SWITCH. CONTROLS CONTRACTOR TO PROVIDE MOMENTARY SWITCH.

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.



CONTROL WIRE PULLS

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

REVISION		
1	2020 PRODUCE CASE REMODEL	08/26/2020 BY
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
08/26/2020

ENGINEER SEAL
STATE OF MISSOURI
SHANNAH EITTER
NUMBER E2001000891
REGISTERED PROFESSIONAL ENGINEER

HUSSMANN
Hussmann Corporation
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Chino, CA 91710
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LOCATION:
LEE'S SUMMIT #2, MO

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

HyVee 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:
E7.1

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

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.

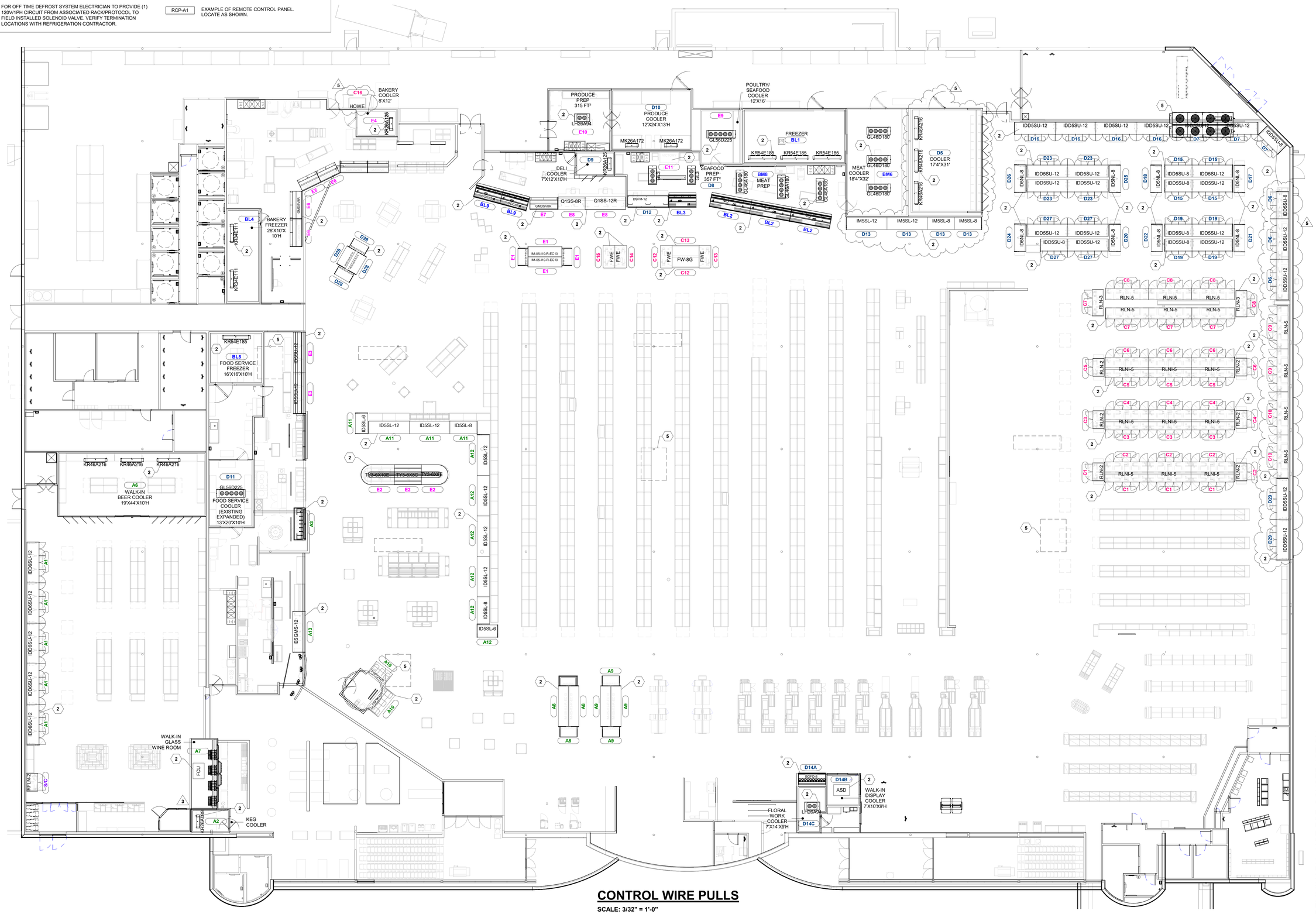
RCP-A1 EXAMPLE OF REMOTE CONTROL PANEL. LOCATE AS SHOWN.

GENERAL NOTES

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/28/2021

REVISION		BY
1	2020 PRODUCE CASE REMODEL	08/28/2021
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"

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

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NOTICE OF NONRESPONSIBILITY

All plumbing and electrical and refrigeration drawings are furnished as a guide to assist the Architect and our Customer with store 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 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

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

	OVT	L1		L2		L3		OVT	
CONTROL & RECEPTACLE	1	9.0	31.9						ZB50CNCE
60 CONDELI FANS	1			4.5	31.9				COMP #1
40 CONDELI LTE	1					5.7	31.9		BREAK 40A CONT. 40A
KENSAUR FANS	2	1.8	11.9						ZB50NCE
FB150STR FANS 60	3			1.7	11.9				COMP #2
FB150STR LTE VFD6A PLAY	3					0.7	11.9		BREAK 60A CONT. 60A
			31.9						ZB57CNCE
					31.9				COMP #3
							31.9		BREAK 40A CONT. 40A
		0.8	2.4					N	26 WASH FANS
				0.9	4.4			N	26 WDSR LTS VFD6A PLAY
(SARNAC16 FANS VFD6A	4					9.6	8.3	NL	FSDRwall/H-FSFDA2R
26 WASH FANS	4	2.4	4.5					12	42 OSSL FANS
26 WDSR LTS VFD6A PLAY	4			4.4	7.2			12	52 OSSL LTS
CASE LINE LOADS		20.4		24.0		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			

JOB # ###
QUOTE # ###
REV:

208/3 V BUSBAR #2

	OVT	L1		L2		L3		OVT	
ZB57NCE		31.9							
COMP #4				31.9	2.5			11	36 OSSL FANS
BREAK 40A CONT. 40A						31.9	4.4	11	36 OSSL LTS
ZB57NCE		31.9							
COMP #5				31.9					
BREAK 40A CONT. 40A						31.9			
ZB57NCE		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 ES3045 FANS	10	0.3	2.0						3P30A
12 ES3045 LTE VFD6A PLAN	10			0.8	PS1			PS1	3HV
								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		150.8		154.6			
HIGH LEG RLA		119.6		120.6		123.7			

JOB # ###
QUOTE # ###
REV:

208/3 V BUSBAR #3

	OVT	L1		L2		L3		OVT	
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		221.0		223.1			
UNIT DATA:		RLA	80.7	MCA	279.6	MOPD	350		

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

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

	OVT	L1		L2		L3		OVT	
CONTROL & RECEPTACLE	1	9.0	24.5						ZF120HVE
(QARNAC16 FANS	1			6.0	24.5				COMP #1
FAN KILL RELAY	1					6.0	24.5		BREAK 40A CONT. 40A
KRAKAB16E-DEF HTR	1	21.7	24.5						ZF120HVE
JF30A PLAY	1			21.7	24.5				COMP #2
KRAKAB16E-DEF HTR	1					21.7	24.5		BREAK 40A CONT. 40A
JF30A PLAU	1	21.7	27.3						ZF120HVE
KRAKAB16E-DEF HTR	1			21.7	27.3				COMP #3
JF30A PLBS	1					21.7	27.3		BREAK 40A CONT. 40A
(QARNAC11 FANS	4	2.4	2.0					5	WRAKE16B FANS
FAN KILL RELAY	4			2.4	2.0				FAN KILL RELAY
(QARNAC11 DEF HTR	4					26.0	21.7	5	WRAKE16B DEF HTR
JF40A PLAH	4	26.0	21.7						3P30A PLAR
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			

JOB # ##
QUOTE # ##
REV:

208/3 V BUSBAR #2

	OVT	L1		L2		L3		OVT	
ZB50CNCE		31.9	2.4					6	(3)SLAED16E FANS
COMP #4				31.9	2.4				FAN KILL RELAY
BREAK 40A CONT. 40A						31.9	27.8	6	(3)SLAED16E DEF HTR
ZB50NCE		31.9	27.8						3PA0A PLAR
COMP #5				31.9	13.9			6	SLAED16E DEF HTR
BREAK 40A CONT. 40A						31.9	13.9		3PA0A PLAT
ZB50NCE		31.9	PS2	31.9	PS2			PS2	PS2
COMP #6						31.9	PS1	PS1	PS1
CONDENSER	6	21.6	PS1						PS1
BREAKER				21.6	3.6			6	(3)SLAB16E FANS 1P15A _
CRANKCASE HEATERS	B	2.0							
2P20A				2.0	0.6			9	H BOOS LTS 1P20A PLAN
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		150.0			

JOB # ##
QUOTE # ##
REV:

208/3 V BUSBAR #3

	OVT	L1		L2		L3		OVT	
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 :		262.6		178.9		264.7			
UNIT DATA:		RLA	264.7	MCA	350.9	MOPD	400		

BUSSBAR NOT USED

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

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

	OVT	L1		L2		L3		OVT	
CONTROL & RECEPTACLE	1	9.0	24.5						ZF220HVE
(3) MSSCC FANS	1			6.3	24.5				COMP #1
(3) MSSCC LTE 1P20A PLAT	1					6.3	24.5		BREAK 40A CONT. 40A
26 TOUGH FANS	2	7.3	14.1						ZF220HVE
26 TOUGH LTE 1P20A PLAC	2			2.1	14.1				COMP #2
24 ES3U FANS	3					1.9	14.1		BREAK 20A CONT. 20A
24 ES3U LTE	3	2.8	14.1						ZB30NCE
26 QMB3VR FANS LTE	5			13.2	14.1				COMP #3
SPARE	5					4.1	14.1		BREAK 30A CONT. 30A
KRDKA120 FANS 1P10A	4	1.6						E	CRANKCASE HEATERS
LNSKAA FANS 1P10A	4			1.8	2.0				3P30A
KRDKA120 FANS 1P10A	4						2.0		
			PS1					PS1	PS1
CASE LINE LOADS		20.4		21.5		12.1		PS1	
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			

JOB # ###
QUOTE # ###
REV:

208/3 V BUSBAR #2

	OVT	L1		L2		L3		OVT	
ZF220HVE		27.3	8.3					4	0.5R RLN FANS/HTRS
COMP #4				27.3	8.3			7	0.5R RLN FANS/HTRS
BREAK 40A CONT. 40A						27.3	11.3	4	2+0.5R RLN FANS/HTRS
ZF220HVE		27.3	2.9					6	1+0.5R RLN HTRS
COMP #5				27.3	8.3			7	0.5R RLN FANS/HTRS
BREAK 40A CONT. 40A						27.3	8.3	7	0.5R RLN FANS/HTRS
ZF220HVE		27.3	13.1					8	0.5R RLN FANS/HTRS
COMP #6				27.3	2.9			6	1R RLN HTRS
BREAK 40A CONT. 40A						27.3	8.3	8	0.5R RLN FANS/HTRS
CONDENSER	C	21.6	8.3					8	0.5R RLN FANS/HTRS
BREAKER				21.6	13.1			8	0.5R RLN FANS/HTRS
3P-50A						21.6	2.9	8	1R RLN HTRS
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

	OVT	L1		L2		L3		OVT	
0.5R RLN FANS/HTRS	4	8.3							
0.5R RLN FANS/HTRS	7			8.3					
0.5R RLN FANS/HTRS	8					8.3			
0.5R RLN FANS/HTRS	10								
1R RLN LTS	10	2.5							
0.5R RLN FANS/HTRS	10			8.3					
0.5R RLN FANS/HTRS	10					8.3		11	2PWE
2+0.5R RLN FANS/HTRS	10	11.3						11	2PWE
2+0.5R RLN RLN LTS	10			2.9				11	2PWE
8+E FW FANS/HTRS	10					2.4			
8+E FW FANS/HTRS	10	2.4							
FWE FANS/HTRS	10			0.6	2.0			C	CRANKCASE HEATERS
CASE LINE LOADS		27.0		30.4		21.7			2P30A
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	450		

Busbar rated for 200A maximum at 240VAC (High Leg MCA not to exceed 200A)

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

	OVT	L1		L2		L3		OVT	
CONTROL & RECEPTACLE	1	10.0	23.5					3	2+3 DR RLN+RLNI DEF HTR
3 DR RLN DEF HTR	1			16.8	23.5				2P30A PLAY
2P30A PLAY	1	16.8	16.8					3	3 DR RLN DEF HTR
3 DR RLN DEF HTR	1			16.8	16.8				2P30A PLAS
2+3 DR RLN+RLNI DEF HTR	1					23.5	16.8	4	3 DR RLN DEF HTR
2P30A PLAS	1	23.5	23.5						2P30A PLAT
3 DR RLN DEF HTR	2			16.8	23.5			4	3 DR RLN DEF HTR
2P30A PLAN	2					16.8	16.8		2P30A PLAU
2+3 DR RLN+RLNI DEF HTR	2	23.5	16.8					5	3 DR RLN DEF HTR
2P30A PLAR	2			23.5	16.8				2P30A PLBS
3 DR RLN DEF HTR	3					16.8	23.5	5	3 DR RLN DEF HTR
2P30A PLAR	3	16.8	23.5						2P30A PLAV
3 DR RLN DEF HTR	3			16.8	23.5			5	2+3 DR RLN+RLNI DEF HTR
2P30A PLAT	3					16.8			2P30A PLAH
CASE LINE LOADS		10.0		0.0		0.0			
MAX DEFROST			40.4		40.4		40.4		
HIGH LEG MCA		66.3		50.5		50.5			
HIGH LEG RLA		52.4		40.4		40.4			

JOB # ##
QUOTE # ##
REV:

208/3 V BUSS-BAR #2

	OVT	L1		L2		L3		OVT	
5 DR RLN DEF HTR	5	16.8	16.8					5	3 DR RLN DEF HTR
2P30A PLAV	5			16.8	16.8				2P30A PLAU
5 DR RLN DEF HTR	6					16.8	16.8	5	3 DR RLN DEF HTR
2+3 DR RLN+RLNI DEF HTR	6	23.5	26.9						2P30A PLBS
2P30A PLAU	7			23.5	26.9			6	3 DR RLN DEF HTR
5 DR RLN DEF HTR	7	16.8	16.8						2P30A PLAS
2P30A PLAV	7			16.8	16.8			6	3 DR RLN DEF HTR
5 DR RLN DEF HTR	7					16.8	16.8		2P30A PLAT
2P30A PLBS	7	18.8	16.8					7	3 DR RLN DEF HTR
8 DR RLN DEF HTR	7			26.8	16.8				2P30A PLAN
PS1		PS1				20.0	19.8	11	SPARE
PS1			PS1						2P30A PLAT
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			

JOB # ##
QUOTE # ##
REV:

208/3 V BUSS-BAR #3

	OVT	L1		L2		L3		OVT	
5 DR RLN DEF HTR	2	16.8	21.9					12	3+E FW DEF HTR
2P30A PLAN	2			16.8	21.9				2P30A PLAV
5 DR RLN DEF HTR	10					16.8	21.9	13	3+E FW DEF HTR
2P30A PLAW	10	16.8	21.9						2P30A PLAU
PS2	PS2			6.5				14	FWE DEF HTR
PS2					6.5				2P30A PLAS
SPARE	11	6.5						15	FWE DEF HTR
2P30A PLAE				6.5					2P30A PLAW
PS6	PS6				PS6	PS5	PS5	PS5	
PS5	PS5	PS6	PS6					PS6	
PS3	PS3			PS3	PS6			PS6	
PS3						PS3	PS6	PS6	
PS4	PS4	PS4	PS7					PS7	PS7
PS4				PS4	PS7				PS7
CASE LINE LOADS		0.0		0.0		0.0			
MAX DEFROST			21.9		21.9		21.9		
HIGH LEG MCA			27.4		27.4		27.4		
HIGH LEG RLA			21.9		21.9		21.9		
UNIT DATA:		RLA	107.8	MCA	134.8	MOPD	150		

THIS PANEL'S SUPPLEMENTAL PROTECTION IS SIZED FOR X OF THE LARGEST SYSTEMS TO BE IN DEFROST AT ONE TIME.

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

	OVT	L1		L2		L3		OVT	
CONTROL & RECEPTACLE	1	9.0	20.2						ZB40HCE
32 MSSCC FANS	1			2.4	20.2				COMP #1
32 MSSCC LTE 1P20A PLAT	1					4.0	20.2		BREAK 40A CONT. 40A
26 TOUGH FANS	2	7.3	14.1						ZB30HCE
26 TOUGH LTE 1P20A PLAC	2			2.1	14.1				COMP #2
24 ES3U FANS	3					1.9	14.1		BREAK 20A CONT. 20A
24 ES3U LTE	3	2.8	14.1						ZB30NCE
26 QMB3VR FANS LTE	5			13.2	14.1				COMP #3
SPARE	5					4.1	14.1		BREAK 30A CONT. 30A
KRDKA120 FANS 1P10A	4	1.6						E	CRANKCASE HEATERS
LNSKAA FANS 1P10A	4			1.8	2.0				3P30A
KRDKA120 FANS 1P10A	4						2.0		
			PS1					PS1	PS1
CASE LINE LOADS		20.4		21.5		12.1		PS1	
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			

JOB # ###
QUOTE # ###
REV:

208/3 V BUSBAR #2

	OVT	L1		L2		L3		OVT	
ZB40HCE		20.2	1.0					4	SLM2035 FANS
COMP #4				20.2	1.0				FAN KILL RELAY
BREAK 30A CONT. 30A						20.2			
ZB40HCE		22.8							
COMP #5				22.8	17.4			4	SLM2035 DEF HTR
BREAK 40A CONT. 30A						22.8	17.4		2P30A PLP3
ZB30NCE									
COMP #6		0.0							
				0.0					
CONDENSER	E	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			
MAX DEFROST			22.8		17.4				
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

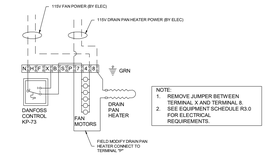
	OVT	L1		L2		L3		OVT	
CASE LINE LOADS		0.0		0.0		0.0			
MAX DEFROST									
HIGH LEG MCA		0.0		0.0		0.0			
HIGH LEG RLA		0.0		0.0		0.0			
UNIT MCA :		168.0		191.1		178.1			
UNIT RLA :		134.4		152.9		142.5			
UNIT DATA:		RLA	152.9	MCA	191.1	MOPD	250		

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.

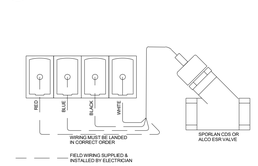
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
08/28/2017

REVISION		
1	2020 PRODUCE CASE REMODEL	08/28/2017
2	ASI #4	02/08/21
3	ASI #6	03/25/21
4	ASI #7	04/20/21

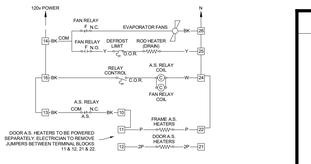


NOTE:
1. REMOVE JUMPER BETWEEN TERMINAL X AND TERMINAL 8.
2. SEE EQUIPMENT SCHEDULE R3.0 FOR ELECTRICAL REQUIREMENTS.

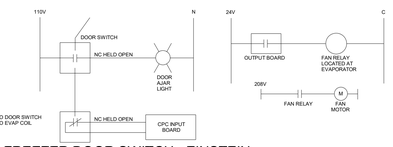
7 KR COIL GAS DEFROST DRAIN PAN HEATER WIRING DETAIL
SCALE: NTS



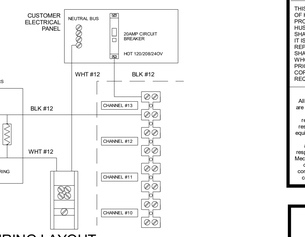
6 EEPR TERMINATION DETAIL
SCALE: NTS



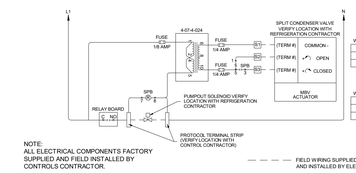
5 RLN, RLNI ANTI-SWEAT WIRING DETAIL
SCALE: NTS



4 FREEZER DOOR SWITCH - EINSTEIN
SCALE: NTS

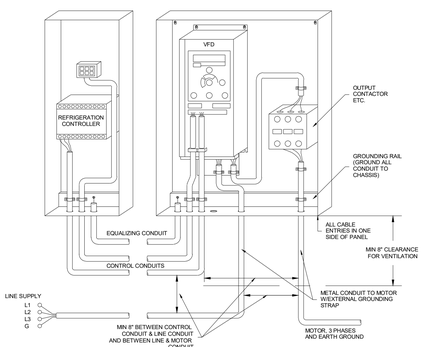


3 TYPICAL PMAC WIRING LAYOUT
SCALE: NTS



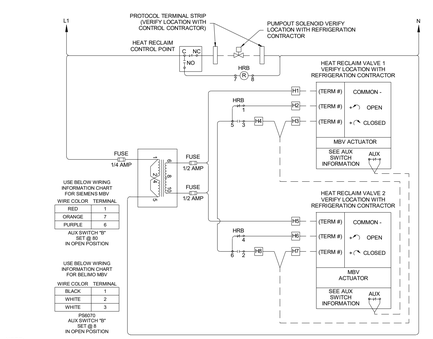
NOTE:
ALL ELECTRICAL COMPONENTS FACTORY SUPPLIED AND FIELD INSTALLED BY CONTROLS CONTRACTOR.

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

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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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION

REVISION		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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
DATE: 4/21/21

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 DETECTOR

REVISION	BY	
ASI #2 - UDPATE WAS	COUNTER LOCATION	12/7/20 bdp
ASI #4 - UDPATE COMM. ROOM LOCATION. ADD COAX NOTE. ADD CONDUIT FOR DSW 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

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) 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" TO ABOVE CEILING

(1) 1" CONDUIT WITH BOX @ +56" EXTEND CONDUIT DOWN TO BOX +18 CONDUIT TO ABOVE CEILING

4 CEILING MOUNTED SPEAKERS

RX COMMUNICATIONS RACK

(1) 2" CONDUIT UNDERFLOOR

(1) 1" CONDUIT UNDERFLOOR

(3) 1" CONDUIT STUBBED UP INTO WALL

(1) 2" CONDUIT STUBBED UP UNDER COUNTER

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

6'-0"

20'-0"

4 CEILING MOUNTED SPEAKERS

(1) 2" CONDUIT UNDERFLOOR

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

7'-6"

19'-2"

CONDUIT STUB UP LOCATION

FRONT COMMUNICATIONS CLOSET

PROVIDE 1 COAX ROTT FROM FRONT CLOSET TO BACK CLOSET

(1) 2" CONDUIT AT COLUMN TO ABOVE CEILING

14'-5"

2" CONDUIT UNDERFLOOR

14'-1"

(2) 2" CONDUITS AT DECK STUBBED FROM WINE AND SPIRITS TO SALES

(1) 2" CONDUIT STUBBED UP INTO WALL WITH JUNCTION BOX

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.

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" CONDUITS FROM RX RACK TO FRONT COMMUNICATIONS CLOSET

SEE 2/T1.1

SEE 1/T1.2

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

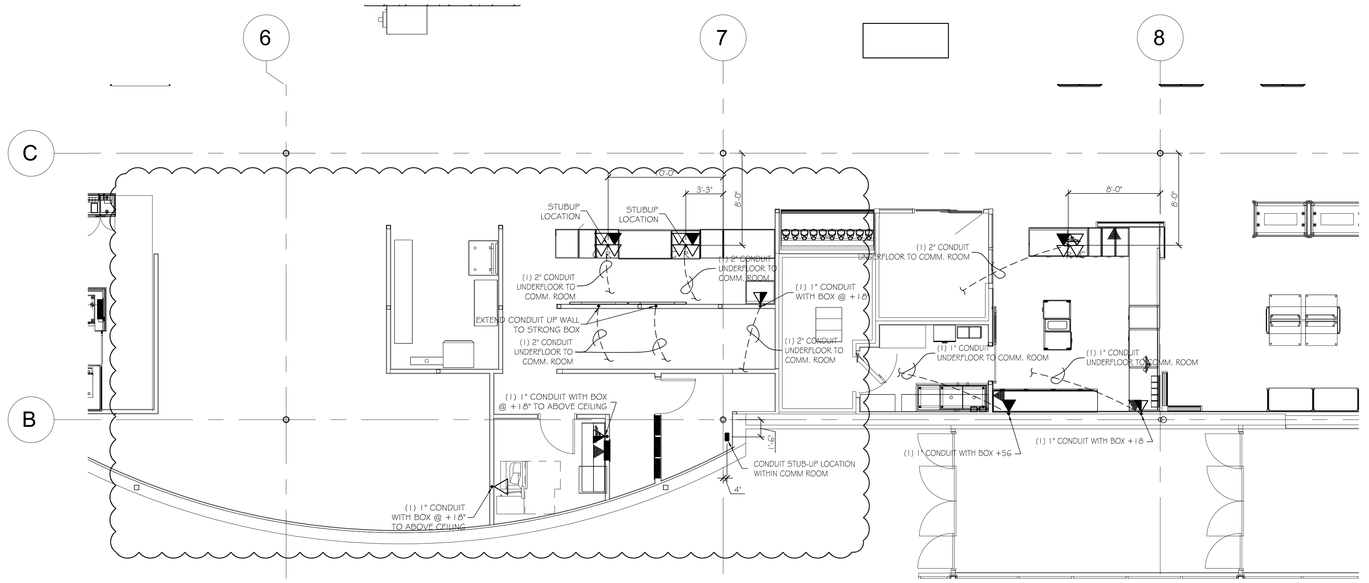
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/17/2021

REVISION	BY	
1	ASI #2 – REVISE FLORAL PHONE LOCATION, UPDATE CUSTOMER SERVICE LAYOUT	bdp
2	ASI #4 – UDPATE COMM ROOM LOCATION	2/5/21 bdp
3	ASI #7 – RELOCATE ADL ROOM, UPDATE CUSTOMER SERVICE AREA	4/19/21 bdp

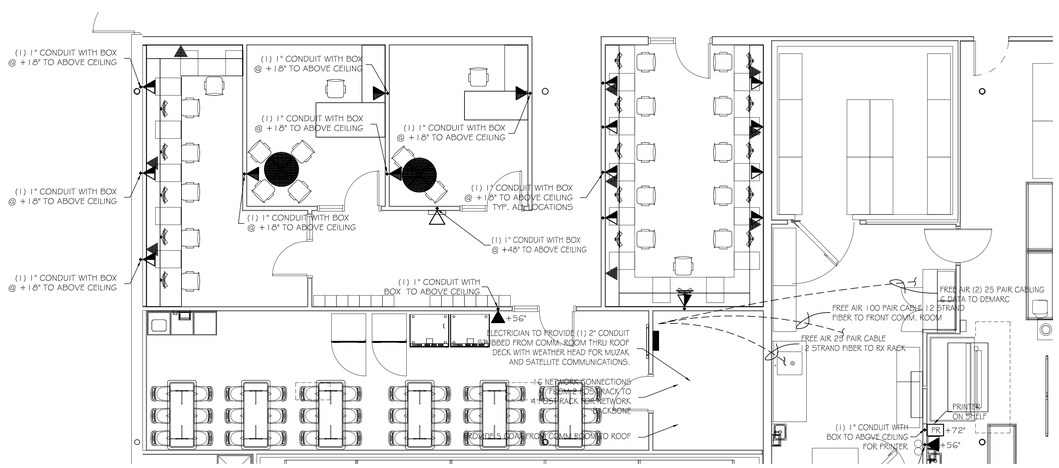
COMMUNICATIONS PLAN SYMBOLS:

- 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"
- MD – MOTION DECTECTOR

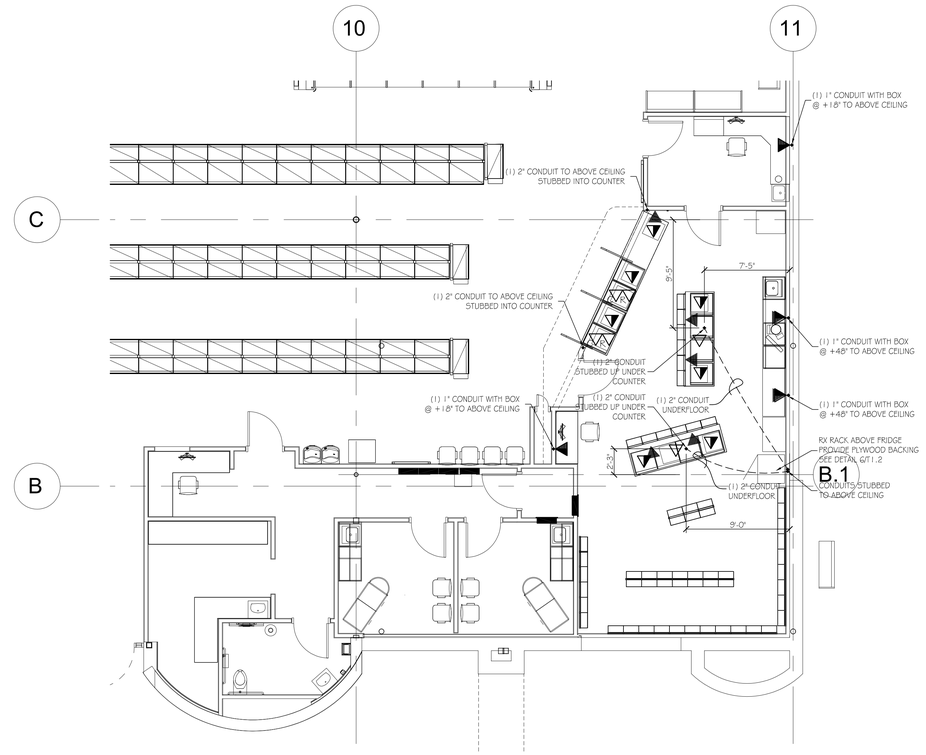
NOTES:
1. ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.
2. PULLSTRING REQUIRED IN ALL UNDERGROUND CONDUIT.
3. ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLING CONTRACTOR WORK BEGINS.



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

Hy-Vee® EMPLOYEE OWNED

NORTH

ENLARGED COMMUNICATIONS PLANS

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

SHEET:
T1.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/27/21

REVISION	BY
ASI #4 – UDPATE COMM ROOM LOCATION	4/27/21 bdp
ASI #7 – RELOCATE ACL ROOM, UPDATE CUSTOMER SERVICE AREA	4/16/21 bdp

SPEAKER PLAN SYMBOLS

- SPEAKER - (180)
- SPEAKER - HORN TYPE - WITH VOLUME ADJUSTMENT (44)
- SPEAKER WITH VOLUME CONTROL - (45)
- SOUNDTUBE SPEAKER (8)
- ELECTRO-VOICE SPEAKER (7)
- SOUNDTUBE SPEAKER RS-3 I (0)
- SOUNDTUBE SM400I (0)
- WALL MOUNT SPEAKER (0)

BACKROOM
BAKERY
BACKROOM
MEAT
OFFICE
FOOD SERVICE
WINE & SPIRITS
DINING
RX
TAP AT 17 1/2 WATTS
TO AV COMM CLOSET
TO AV COMM CLOSET
WINE AND SPIRITS SPEAKER FEED FROM AMP TO VOLUME CONTROL AND FROM VOLUME CONTROL TO FIRST SPEAKER IN ZONE

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
EMPLOYEE OWNED

NORTH

SPEAKER PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE: 3/32" = 1'-0"	JOB NUMBER:

SHEET: T2.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/22/2020

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 +7'-6"	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:

- (D) 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

REVISIONS		
		BY
1	ASI #4 - UPDATE BAR TV'S AND SCHEDULE	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 MENU 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 TO ABOVE CEILING
(1) 1" CONDUIT WITH 1 1/4" CONDUIT WITH BOX @ 7'-10" TO ABOVE CEILING
(2) CAT 6 PULLED FROM GREETING CARDS MONITOR TO COMM. CLOSET
BACK COMMUNICATIONS 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
(2) CAT 6 PULLED FROM APPAREL MONITOR TO COMM. CLOSET
RX COMMUNICATIONS RACK
(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 18/2 SHIELD TO TV1
(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
UP
TV1 TV2 TV3 TV4 TV5 TV6 TV7 TV8 TV9

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

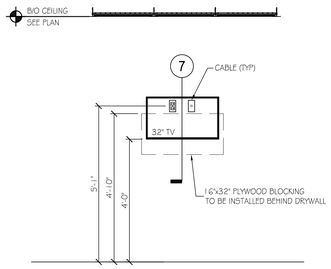
AUDIO/VIDEO PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
3/32" = 1'0"	

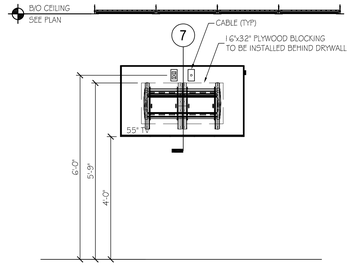
SHEET:
T3.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/27/21

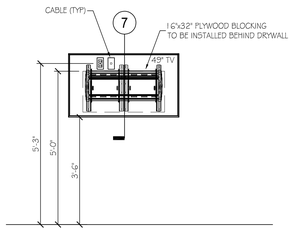
REVISION	BY
1 ASI #2 – UPDATE ELEVATION 13	1/7/21 bdp
2 ASI #4 – UPDATE BAR ELEVATION 9	2/5/21 bdp
3 ASI #7 – UPDATE DECORATOR ELEVATION	4/21/21 bdp



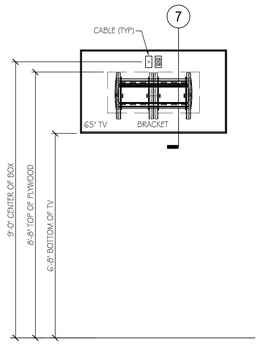
1 MOTHERS ROOM TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



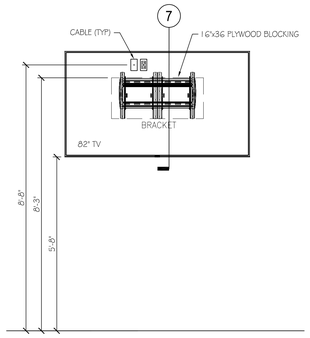
2 BREAKROOM TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



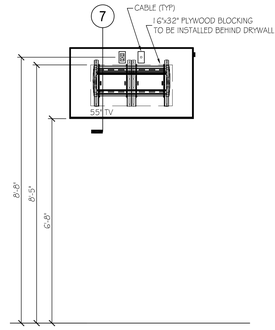
3 DIETITIAN MONITOR ELEVATION
SCALE: 1/2" = 1'-0"



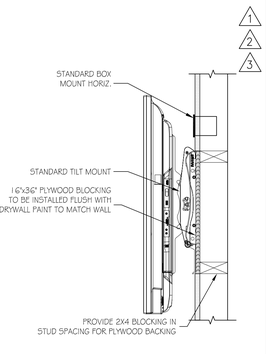
4 SEAFOOD TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



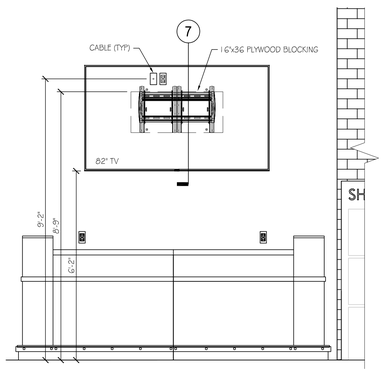
5 MEAT TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



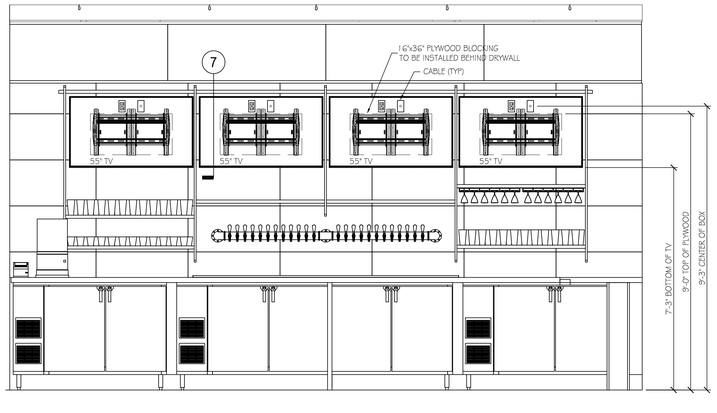
6 TYP. 55" DINING TELEVISION ELEV
SCALE: 1/2" = 1'-0"



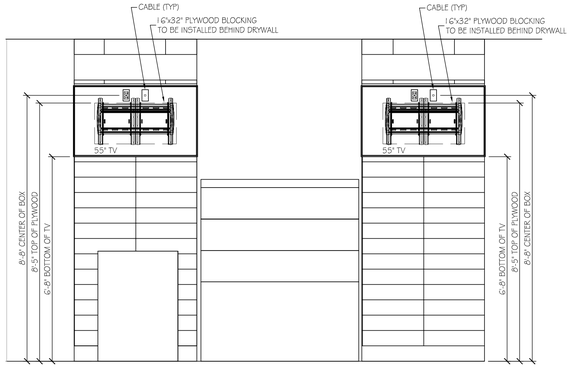
7 TYPICAL TELEVISION SECTION
SCALE: 1 1/2" = 1'-0"



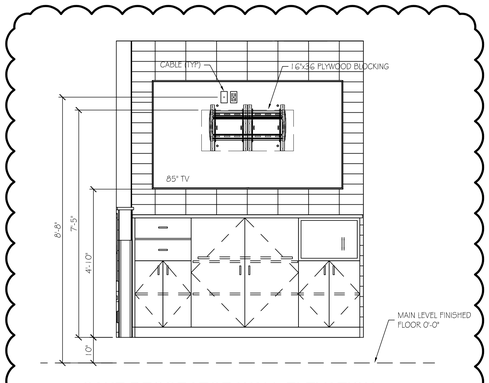
8 APPAREL TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



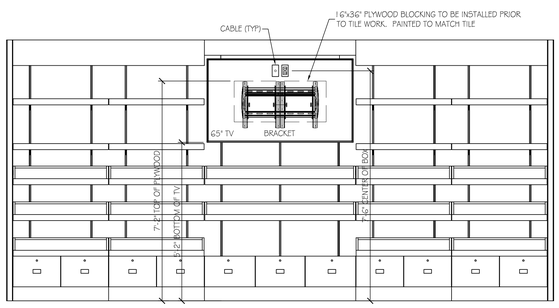
9 BAR WALL ELEVATION
SCALE: 1/2" = 1'-0"



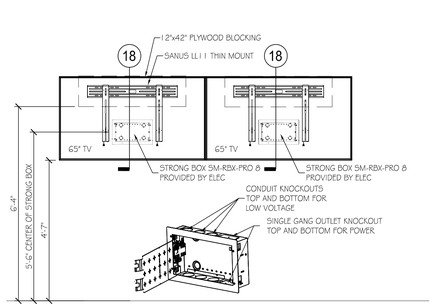
10 BAKERY BREAD WALL ELEVATION
SCALE: 1/2" = 1'-0"



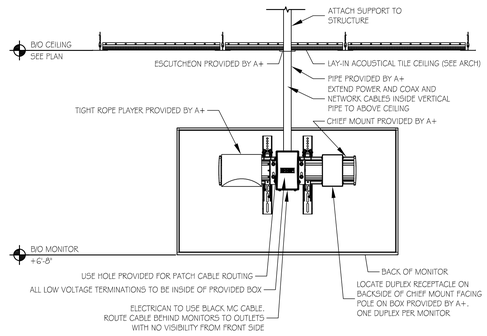
11 CAKE DECORATOR WALL ELEVATION
SCALE: 1/2" = 1'-0"



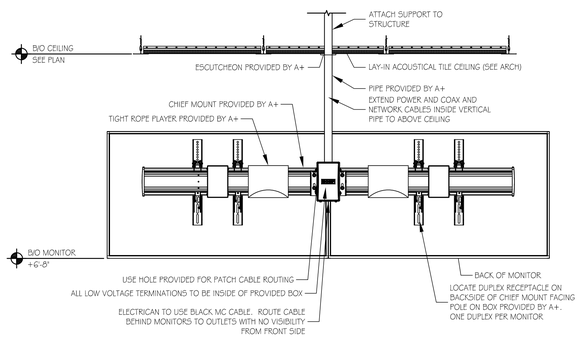
12 BASIN TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



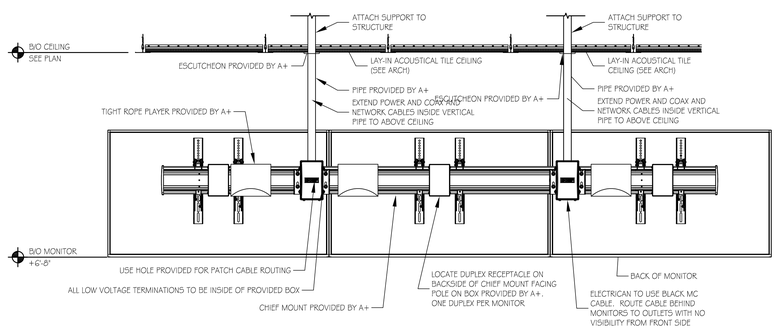
13 CUSTOMER SERVICE TELEVISION ELEVATION
SCALE: 1/2" = 1'-0"



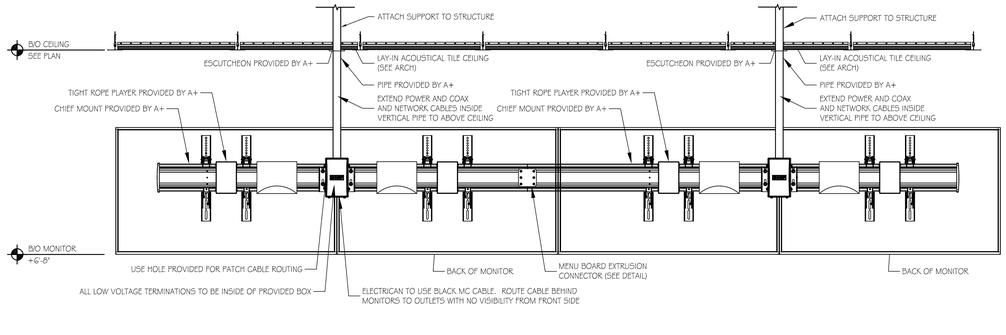
14 49" POLE MOUNTED MENU MONITOR DETAIL (1 MONITOR)
SCALE: 1" = 1'-0"



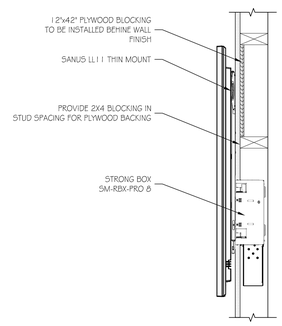
15 49" POLE MOUNTED MENU MONITOR DETAIL (2 MONITORS)
SCALE: 1" = 1'-0"



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"

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

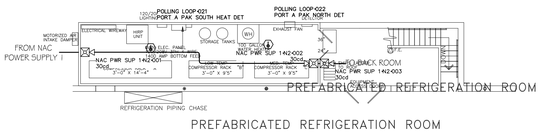
AUDIO/VIDEO
ELEVATIONS
AND DETAILS

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

SHEET:
T3.1

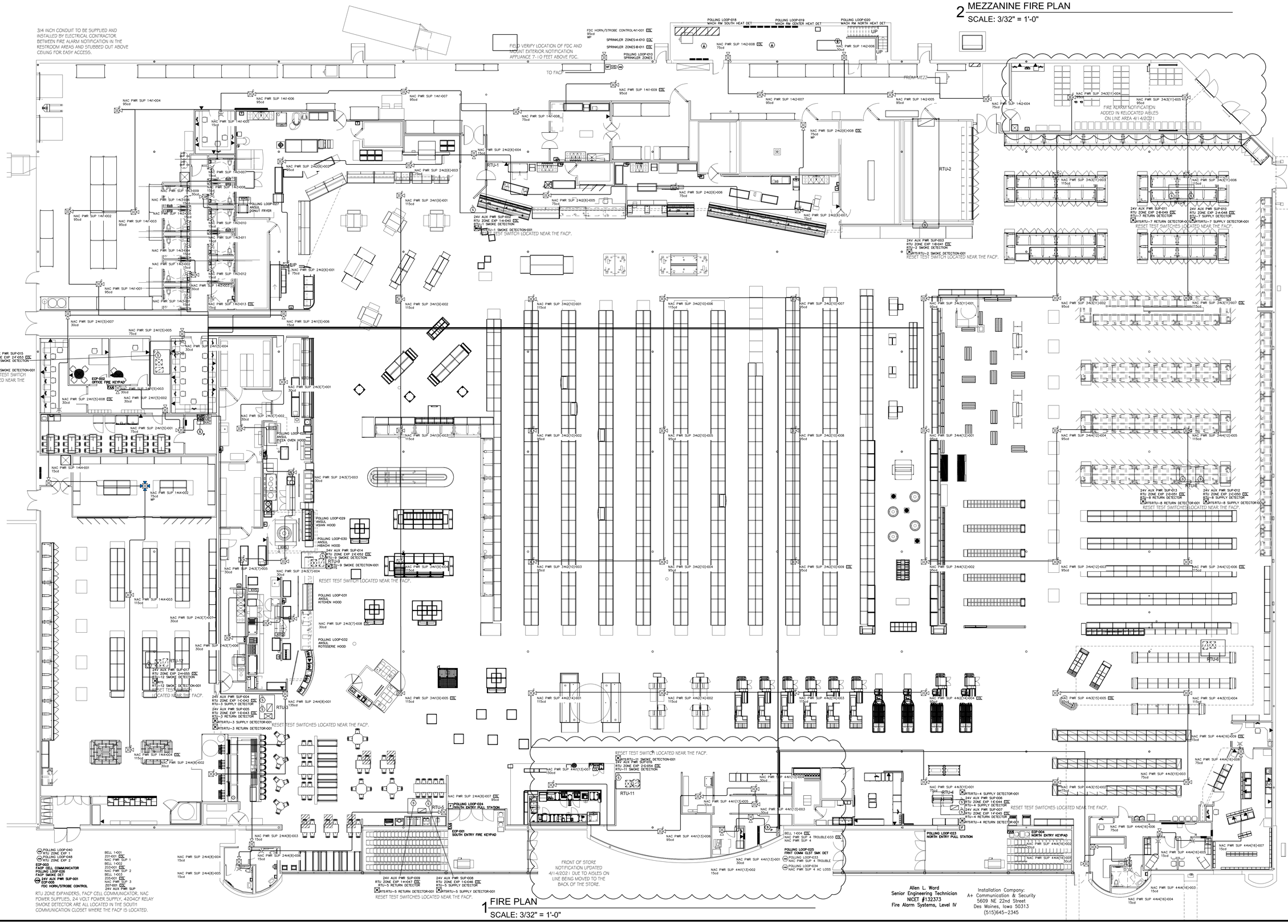
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/26/21

REVISION	BY	
1	ASI #4 - UDPATE COMM ROOM LOCATION	bdp	4/26/21
2	ASI #7 - RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	bdp	4/16/21



PREFABRICATED REFRIGERATION ROOM

2 MEZZANINE FIRE PLAN
SCALE: 3/32" = 1'-0"



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: BP
DATE: OCT 2020
SCALE: 3/32" = 1'0"
JOB NUMBER:
SHEET: T4.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/22/21

REVISION	BY	
1	ASI #4 – ADD FIRE/SECURITY EQUIPMENT ELEVATION	bdp	4/22/21
2	ASI #7 – RELOCATE ACL ROOM, UPDATE CUSTOMER SERVICE AREA	bdp	4/16/21

SMOKE DETECTOR COORDINATION SCHEDULE							
			AIR SMOKE DETECTION	REQUIRED DUCT MOUNTED		TRADE RESPONSIBILITY	
UNIT TAG	AREA SERVED	SUPPLY AIRFLOW (CFM)	(YES/NO)	SMOKE DETECTOR LOCATIONS	SMOKE DETECTORS	WIRING	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:

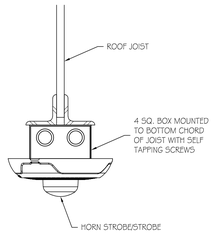
1. NFPA 90.6.42 -SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEM SHALL BE LOCATED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.
2. 2015 IMC.606.2.1 - SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH 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:

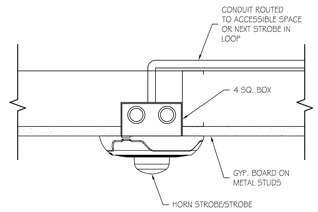
EC = ELECTRICAL CONTRACTOR
OV = OWNERS VENDOR
FAC = FACTORY PROVIDED
FC = FIRE ALARM CONTRACTOR
MC = MECHANICAL CONTRACTOR

TRADE RESPONSIBILITY NOTES:

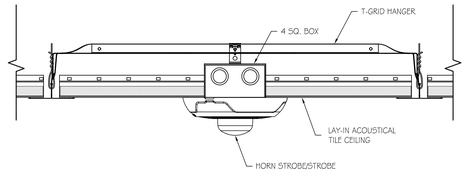
1. THIS LISTING IN NO WAY SUMMARIZES THE SCOPE OF WORK REQUIRED TO BE PERFORMED BY THE CONTRACTORS.
2. FOR OWNER VENDOR FURNISHED ITEMS THE INSTALLING CONTRACTOR MAY ALSO BE REQUIRED TO RECEIVE, INVENTORY, PROTECT, STORE AND ASSEMBLE THE EQUIPMENT.
3. SEE THE SPECIFICATIONS, DRAWINGS AND MANUFACTURERS 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
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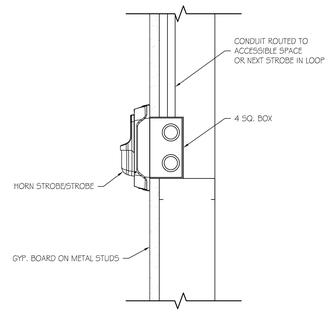
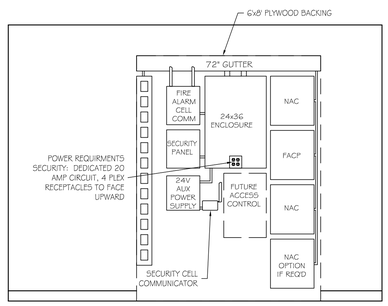


4 STROBE INSTALLATION - GYP. BD WALL MOUNT
SCALE: 3" = 1'-0"



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

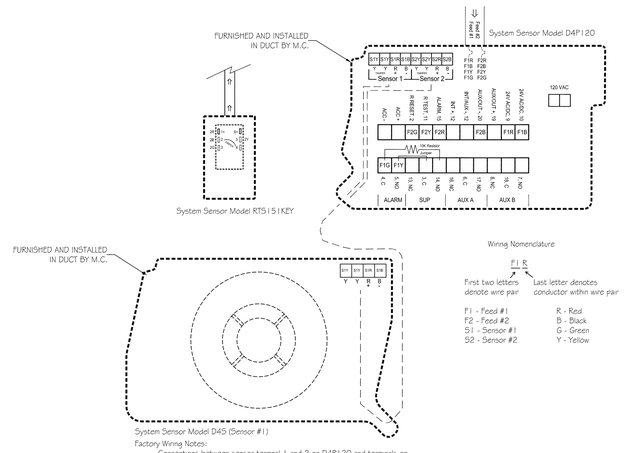
FIRE ALARM CONTRACTOR WILL PROVIDE ALL PROGRAMMING, TESTING, AND COMMISSIONING TO SATISFY THE LOCAL AUTHORITY HAVING JURISDICTION OR HY-VEE REQUIREMENTS AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. FOR ALL HVAC UNITS AND THEIR ASSOCIATED SMOKE DETECTORS, THE FIRE ALARM CONTRACTOR SHALL TEST FOR 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.

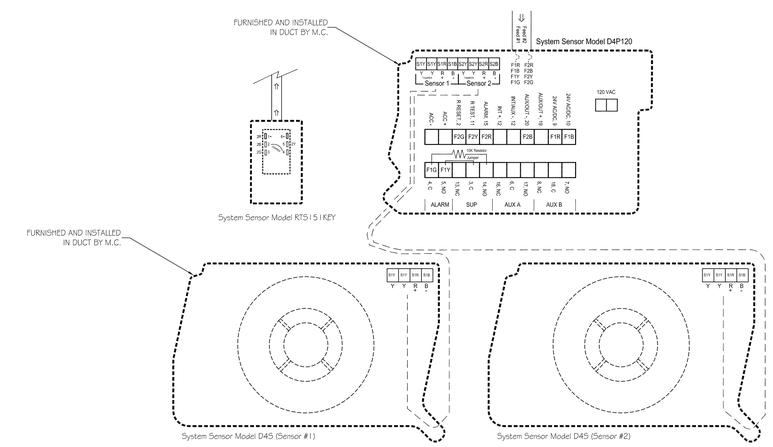
HVAC SCOPE OF WORK

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.



Factory Wiring Notes:
Connections between sensor terminal 1 and 2 on D4P120 and terminals on D35 detectors are to be made in field by A+ (denoted by D45 detectors are to be placed appropriately by control contractor. D4P120 is to be placed appropriately by control contractor such that is it possible in a reasonble manner after HVAC unit is set.

Field Wiring Notes:
Wire Feeds 1 and 2 are to be wired in-field by fire alarm contractor
Jumper between terminal 4 and 14 on D4P120 is a resistor of value 10K.
Remove factory wired red and black leads on D4P120 (posts 9 and 10) and cap



Factory Wiring Notes:
Connections between sensor terminal 1 and 2 on D4P120 and terminals on D35 detectors are to be made in factory (denoted by D45 detectors are to be placed appropriately by control contractor. D4P120 is to be placed appropriately by control contractor such that is it possible in a reasonble manner after HVAC unit is set.

Field Wiring Notes:
Wire Feeds 1 and 2 are to be wired in-field by fire alarm contractor
Jumper between terminal 4 and 14 on D4P120 is a resistor of value 10K.
Remove factory wired red and black leads on D4P120 (posts 9 and 10) and cap

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

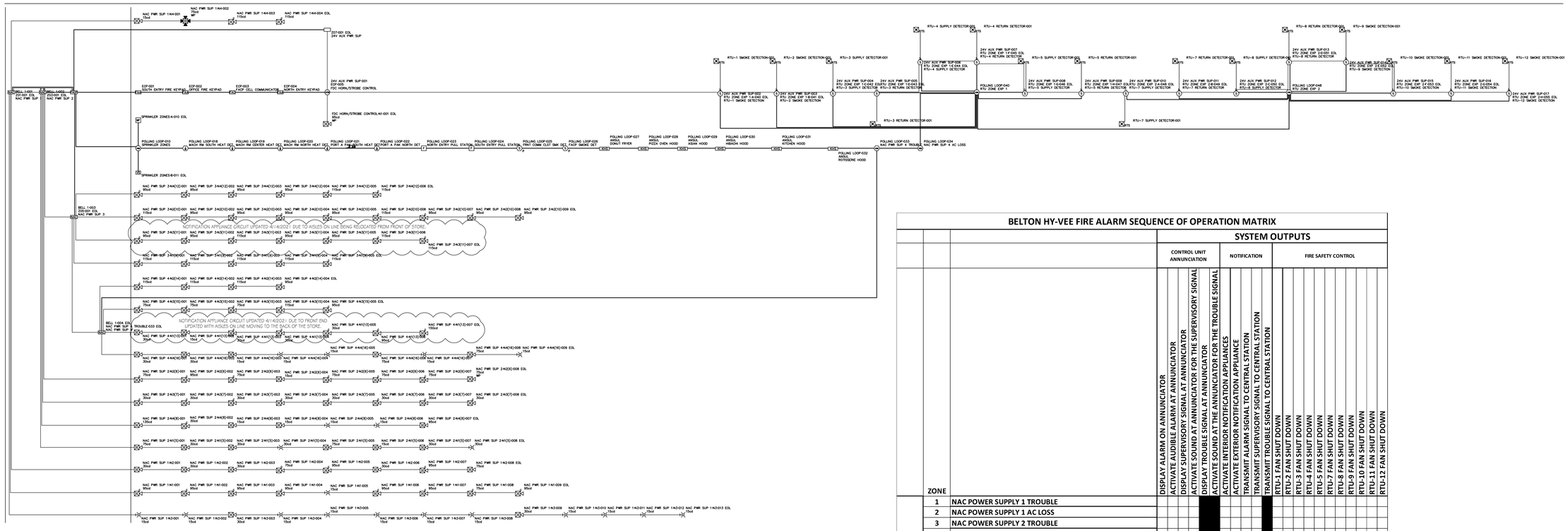
FIRE PLAN SCHEDULES NOTES AND DETAILS

DRAWN:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

SHEET:
T4.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/29/21

REVISION	BY	DATE
1 ASI #7 -- RELOCATE ADT ROOM, UPDATE CUSTOMER SERVICE AREA	bdp	04/29/21



BELTON HY-VEE FIRE ALARM SEQUENCE OF OPERATION MATRIX

	ZONE		SYSTEM OUTPUTS: CONTROL UNIT ANNUNCIATION					NOTIFICATION					FIRE SAFETY CONTROL											
			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		■																				

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
m	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
WP	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.

1 FIRE ALARM RISER DIAGRAM
SCALE: NTS

Allen L. Ward
Senior Engineering Technician
NICET #132373
Fire Alarm Systems, Level IV

Installation Company:
A+ Communication & Security
5609 NE 22nd Street
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Hy-Vee® EMPLOYEE OWNED

NORTH

FIRE ALARM RISER DIAGRAM

DRAWN:	DATE:
ALW	OCT 2020
SCALE:	JOB NUMBER:
NTS	

SHEET:
T4.2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY:
DATE: 04/27/2021

REVISIONS

1 ASI #7 -- RELOCATE ACE ROOM, UPDATE CUSTOMER SERVICE AREA — ALW — 04/27/2021

BATTERY CALCULATION

SECONDARY POWER SOURCE REQUIREMENTS

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	VISTA-128FBPT Main Board	Burglar/Fire Control Panel Main Board	1 x 0.30	= 0.30	1 x 0.47	= 0.47

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
BELL 1	BELL	4	HPFF8	Nac Power Supply	4 x 0.00	= 0.00	4 x 0.01226	= 0.04904
ECP	ECP	1	4204CF	Relay Board	1 x 0.025	= 0.025	1 x 0.105	= 0.105
	ECP	3	6160CR-2	32-Character LCD Annunciator	3 x 0.045	= 0.135	3 x 0.16	= 0.48
	ECP	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-Module w/2-Piez Adapter	2 x 0.0015	= 0.003	2 x 0.0015	= 0.003
		3	4208U	8 Zone RPM	3 x 0.033	= 0.099	3 x 0.033	= 0.099
		2	5193SD	One Piece Photoelectric Smoke Detector	2 x 0.0012	= 0.0024	2 x 0.0028	= 0.0056
		5	5601P/4193	135 °F (57° C) fixed rate-of-rise with 4193 module	5 x 0.0015	= 0.0075	5 x 0.0015	= 0.0075
		2	BG-12/4193 SM	Manual Pull Station	2 x 0.0015	= 0.003	2 x 0.0015	= 0.003
	ANSUL	6	Hood System Monitor/4193 SM	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 %)

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	AL-300-ULMR		1 x 0.00	= 0.00	1 x 0.00	= 0.00

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
24V AUX PWR SUP-	BELL	1	4204CF	Relay Board	1 x 0.002	= 0.002	1 x 0.181	= 0.181
		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

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
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
		7	PC2WL	2-Wire, Horn Strobe, White 95cd	7 x 0.00	= 0.00	7 x 0.165	= 1.155
		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
		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.121	= 0.121
		1	PC2WL	2-Wire, Horn Strobe, White 75cd	1 x 0.00	= 0.00	1 x 0.143	= 0.143
NAC PWR SUP 1-N3		2	PC2WL	2-Wire, Horn Strobe, White 95cd	2 x 0.00	= 0.00	2 x 0.165	= 0.33
		2	P2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.074	= 0.148
		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
	WP	1	PC2WK	2-Wire Horn/Strobe ceiling/outdoor white 75cd	1 x 0.00	= 0.00	1 x 0.176	= 0.176
		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

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
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
		3	P2WL	2-Wire, Horn Strobe, White 30cd	3 x 0.074	= 0.222	3 x 0.074	= 0.222
		2	P2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.121	= 0.242
		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, HORN/STROBE, WALL, WHITE, WEATHERPROOF 75cd	1 x 0.00	= 0.00	1 x 0.176	= 0.176
		1	P2WL	2-Wire, Horn Strobe, White 15cd	1 x 0.00	= 0.00	1 x 0.054	= 0.054
		5	PC2WL	2-Wire, Horn Strobe, White 75cd	5 x 0.00	= 0.00	5 x 0.143	= 0.715
		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 95cd	8 x 0.00	= 0.00	8 x 0.09	= 0.72
		2	P2WL	2-Wire, Horn Strobe, White	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 15cd	1 x 0.00	= 0.00	1 x 0.142	= 0.142
		1	P2WL	2-Wire, Horn Strobe, White 115cd	1 x 0.00	= 0.00	1 x 0.196	= 0.196
		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.09	= 0.09
		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

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
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
		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
		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
		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

PANEL COMPONENTS	QTY	PART NO	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
	1	HPFF8 Main Board	Main board	1 x 0.00	= 0.00	1 x 0.00	= 0.00

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
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
		1	P2WL	2-Wire, Horn Strobe, White 30cd	1 x 0.00	= 0.00	1 x 0.074	= 0.074
		3	PC2WL	2-Wire, Horn Strobe, White 30cd	3 x 0.00	= 0.00	3 x 0.09	= 0.27
		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)		1	PC2WL	2-Wire, Horn Strobe, White 115cd	1 x 0.00	= 0.00	1 x 0.217	= 0.217
		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
		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
		1	PC2WL	2-Wire, Horn Strobe, White 95cd	1 x 0.00	= 0.00	1 x 0.165	= 0.165
		1	P2WL	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
		2	P2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.074	= 0.148
		2	SWL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.121	= 0.242
		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	PC2WL	2-Wire, Horn Strobe, White 95cd	0.1650A	375.0000'	18.3508v	2.0492v	10.05 %
NAC PWR SUP 1-N2-002	PC2WL	2-Wire, Horn Strobe, White 95cd	0.0740A	55.0000'	18.0752v	2.3248v	11.40 %
NAC PWR SUP 1-N2-003	PC2WL	2-Wire, Horn Strobe, White 95cd	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	PC2WL	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	PC2WL	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: 191.3619'
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	PC2WL	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	7.5892'	19.9575v	0.4425v	2.17 %
NAC PWR SUP 1-N3-006	SWL	Strobe, White 15cd	0.0430A	4.3294'	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 50cd	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
Voltage Drop: 3.0950v — End Of Line Voltage: 17.3050v
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 95cd	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, HORN/STROBE, 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 150cd	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	PC2WL	2-Wire, Horn

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/27/21

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	BY
ASI #4 - UDPATE COMM ROOM LOCATION ADD CARD ACCESS TO #24 DOOR	4/16/21 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"

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

SEE T6.1

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

AT COMMUNICATIONS & SECURITY

LOCATION:
LEES SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2925

Hy-Vee® EMPLOYEE OWNED

NORTH

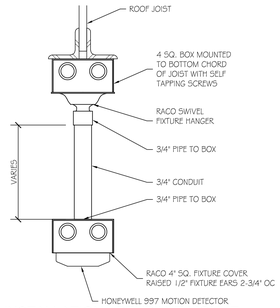
SECURITY PLAN

DRAWN:	DATE:
BP	OCT 2020
SCALE: 3/32" = 1'0"	JOB NUMBER:

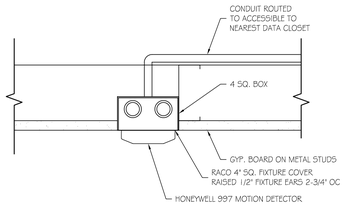
SHEET:
T6.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/21/21

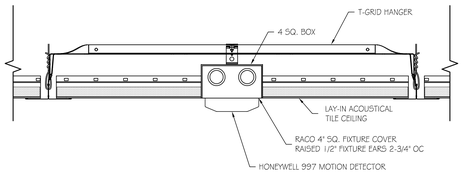
REVISION	BY	DATE
1 ASI #4 -- ADD: FIRE/SECURITY EQUIPMENT ELEVATION, ADD: CARD ACCESS DOOR ELEV AND SECTION	bdp	4/16/21
2 ASI #7 -- RELOCATE AOL ROOM, UPDATE CUSTOMER SERVICE AREA	bdp	4/16/21



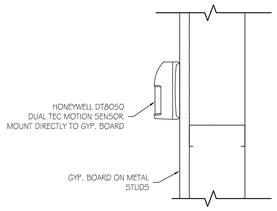
11 MOTION INSTALLATION - PENDANT MOUNT
SCALE: 3" = 1'-0"



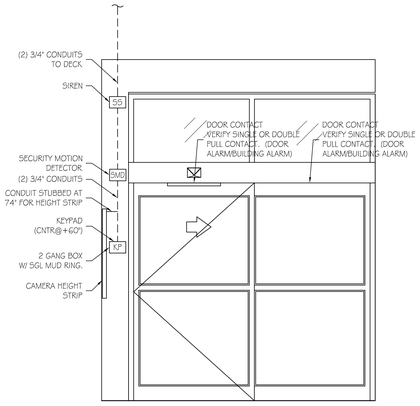
10 MOTION INSTALLATION - GYP. BD MOUNT
SCALE: 3" = 1'-0"



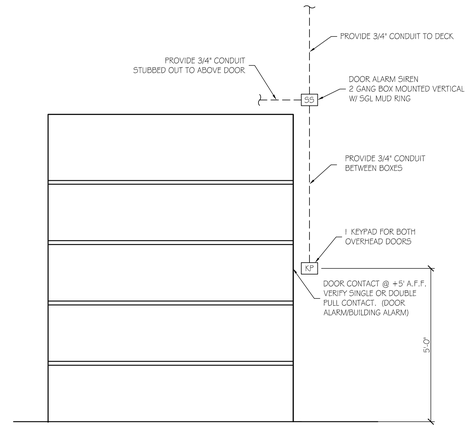
9 MOTION INSTALLATION - ACOUSTICAL CEILING MOUNT
SCALE: 3" = 1'-0"



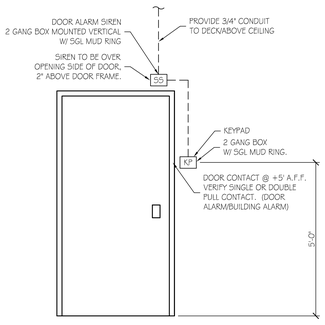
8 MOTION INSTALLATION - GYP. BD WALL MOUNT
SCALE: 3" = 1'-0"



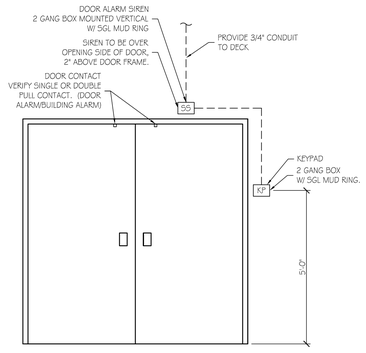
7 DOOR SECURITY DOOR ELEVATION - W&S
SCALE: 1/2" = 1'-0"



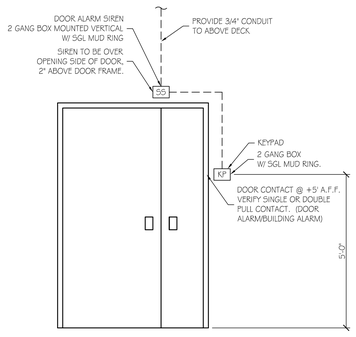
6 DOOR SECURITY DOOR ELEVATION - OVERHEAD DOOR
SCALE: 1/2" = 1'-0"



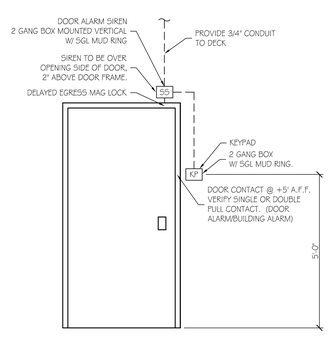
5 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR
SCALE: 1/2" = 1'-0"



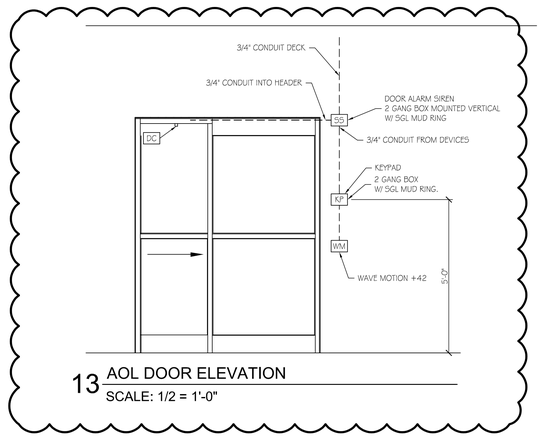
4 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR
SCALE: 1/2" = 1'-0"



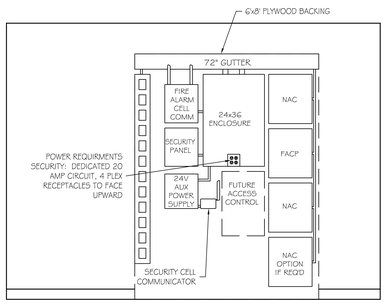
3 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR
SCALE: 1/2" = 1'-0"



2 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR W&S
SCALE: 1/2" = 1'-0"

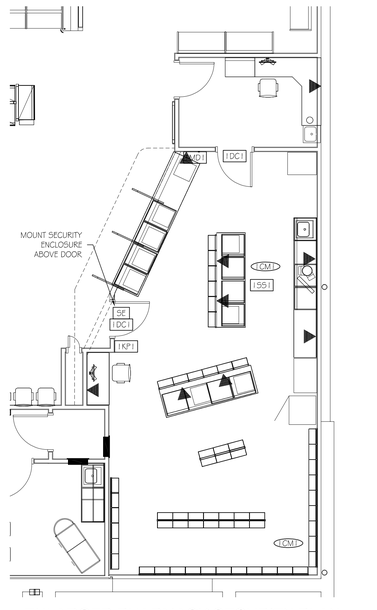


13 AOL DOOR ELEVATION
SCALE: 1/2 = 1'-0"



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:	DATE:
BP	OCT 2020
SCALE:	JOB NUMBER:
SEE SHEET	

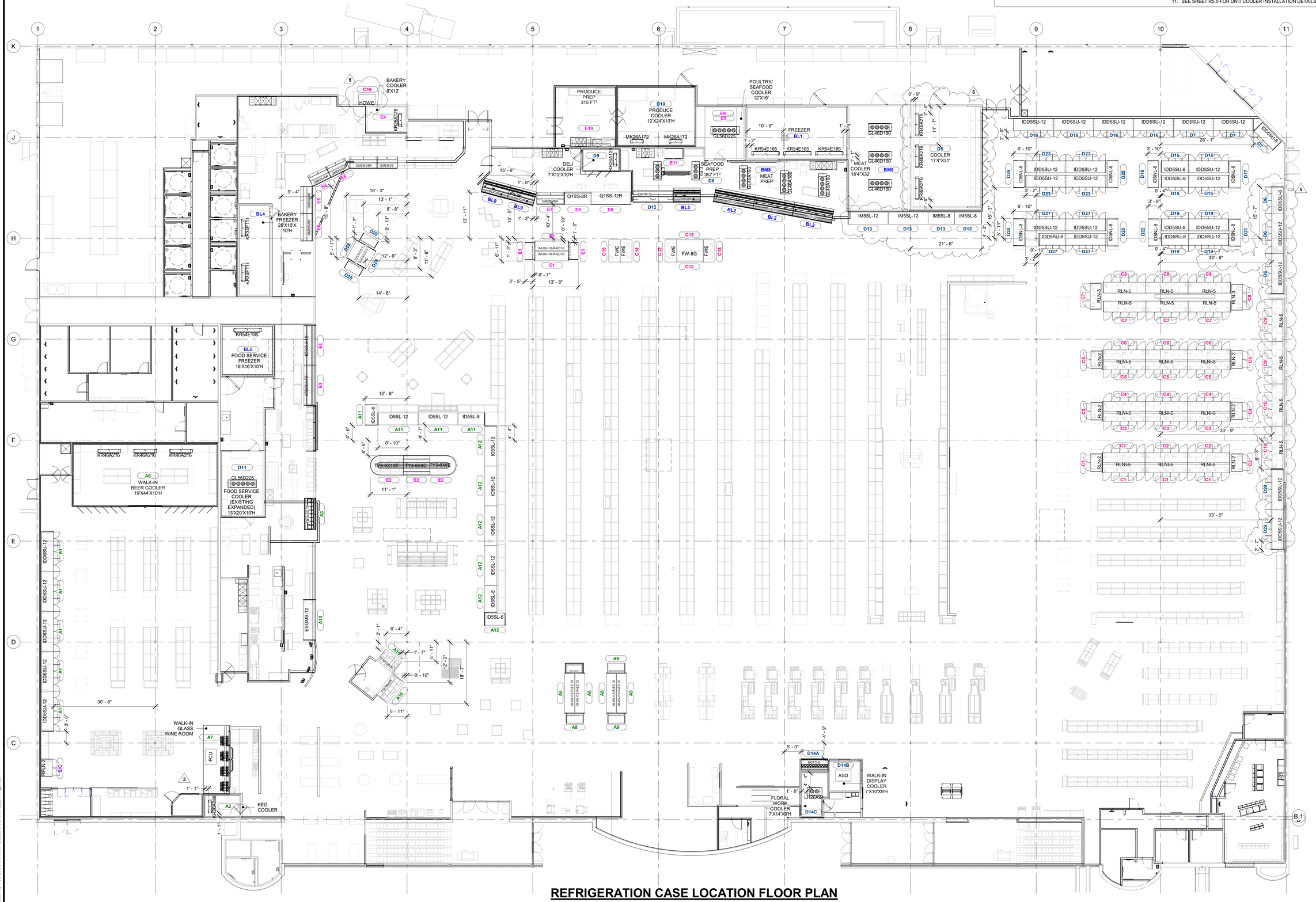
SHEET:
T6.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2021

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		
1	2020 PRODUCE CASE REMODEL	08/26/2021
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 CASE LOCATION FLOOR PLAN

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

ENGINEER SEAL

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LOCATION
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Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

REFRIGERATION CASE LOCATION PLAN

PRELIMINARY - NOT FOR CONSTRUCTION

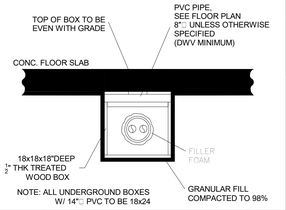
DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
3/32" = 1'-0"	95954

SHEET: R0

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

PVC TRENCH JUNCTION

SCALE: N.T.S.



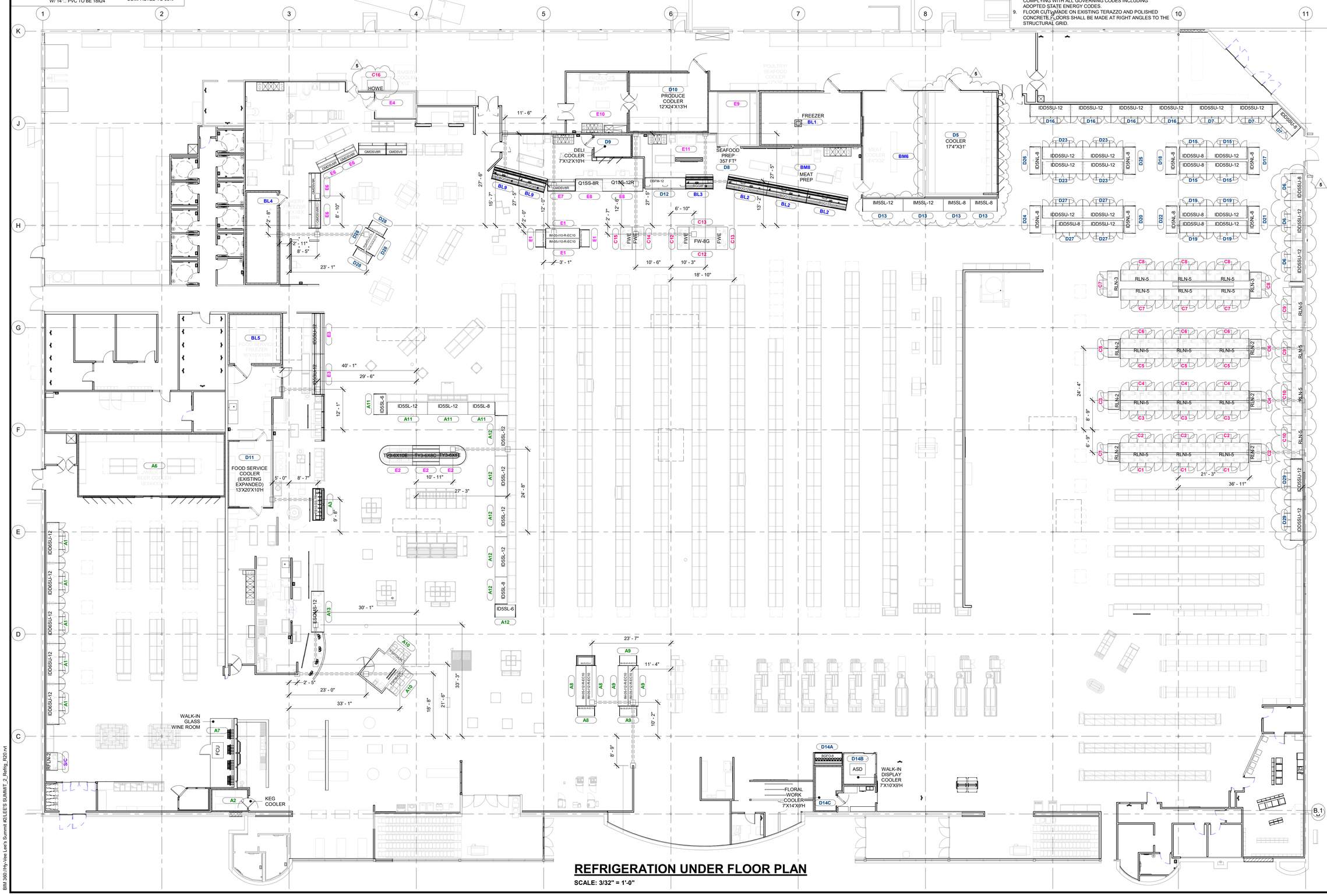
NOTE: ALL UNDERGROUND BOXES W/ 14"□: PVC TO BE 18x24

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 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.



REFRIGERATION UNDER FLOOR PLAN

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

REVISION		
1	2020 PRODUCE CASE REMODEL	08/26/2020 BY
2	ASI #4	02/08/21
3	ASI #5	03/23/21
4	ASI #6	03/25/21
5	ASI #7	04/20/21

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
DATE: 08/26/2020
BY:

ENGINEER SEAL

STATE OF MISSOURI — REGISTERED PROFESSIONAL ENGINEER
SHANNAH EITTER
NUMBER E2001000891

HUSSMANN
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LOCATION
LEE'S SUMMIT #2, MO

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

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 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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
DATE 08/26/2021

REVISION		
1	2020 PRODUCE CASE REMODEL	08/26/2021
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

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LOCATION
LEE'S SUMMIT #2, MO

HY-VEE, INC.
5820 WESTOWN PARKWAY
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FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION PIPING FLOOR PLAN

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
3/32" = 1'-0"	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		
1	2020 PRODUCE CASE REMODEL	08/26/20
2	ASI #4	02/08/21
3	ASI #5	03/23/21
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5	ASI #7	04/20/21

RELEASE FOR CONSTRUCTION
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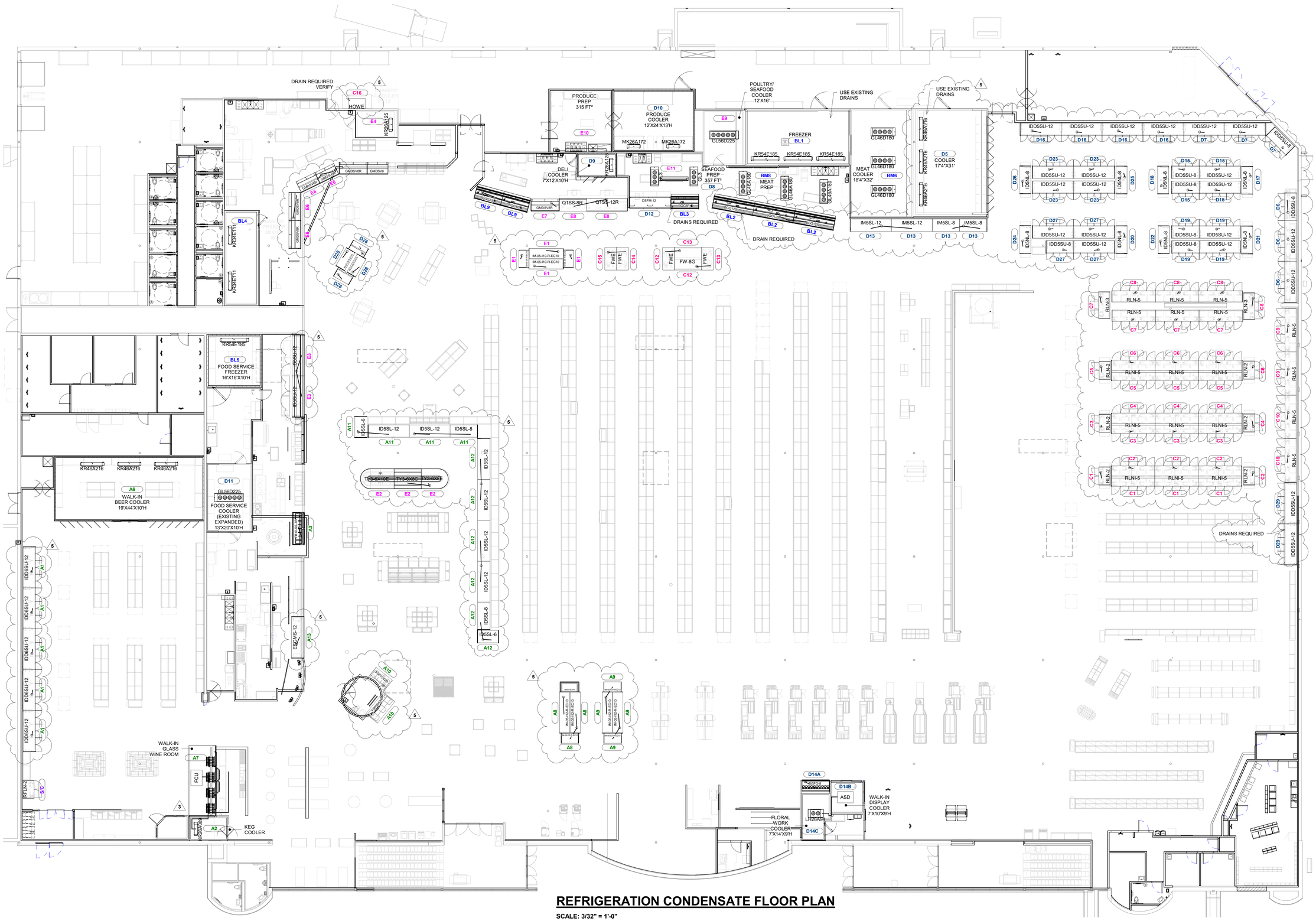

REFRIGERATION CONDENSATE FLOOR PLAN

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

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ENGINEER SEAL

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Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

REFRIGERATION CONDENSATE PIPING FLOOR PLAN

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2021

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	BRANCH KITS INSTALLED SL	BRANCH KITS INSTALLED CS	BRANCH KITS INSTALLED LL	LINE SIZING BALL VALVES FT	LINE SIZING BALL VALVES LL	LINE SIZING BALL VALVES SL	LINE SIZING BALL VALVES SR	ELECTRIC DEFROST 208V 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																	

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	C1921?GR	
LIQ DRIER BYPASS			
DIFFERENTIAL VLV	52WM	LDR-20 2 1/8	
DIFF NORM OPEN		NO	
LIQ DRAIN REG (Wint 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			

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

120V ELEC FAN AMP	LT AMP	AS HTR	SUP AMP	DEFROST/ FANS 208V/1	208V/3	RISER SIZE	EVAP TXV EQVE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
DATE 04/20/21

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1	2020 PRODUCE CASE REMODEL	08/26/2020
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:
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HUSSMANN
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SET POINT STANDARDS USED BY THE CONTROLS DEPARTMENT

LOW TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE	MED TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
RACK					**KITCHEN CLR**	34	4	60	O
KITCHEN FRZR	-5	3	18	KG	**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-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, FWX**	24	1	60	E
FWG, FWEG	-12	1	60	E	**FWG, FWEG**	24	1	60	E

DEFROST TYPE: E = ELECT | KG = KOOL GAS | O = OFFTIME

LOCATION
LEE'S SUMMIT #2, MO
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
HyVee
EMPLOYEE OWNED

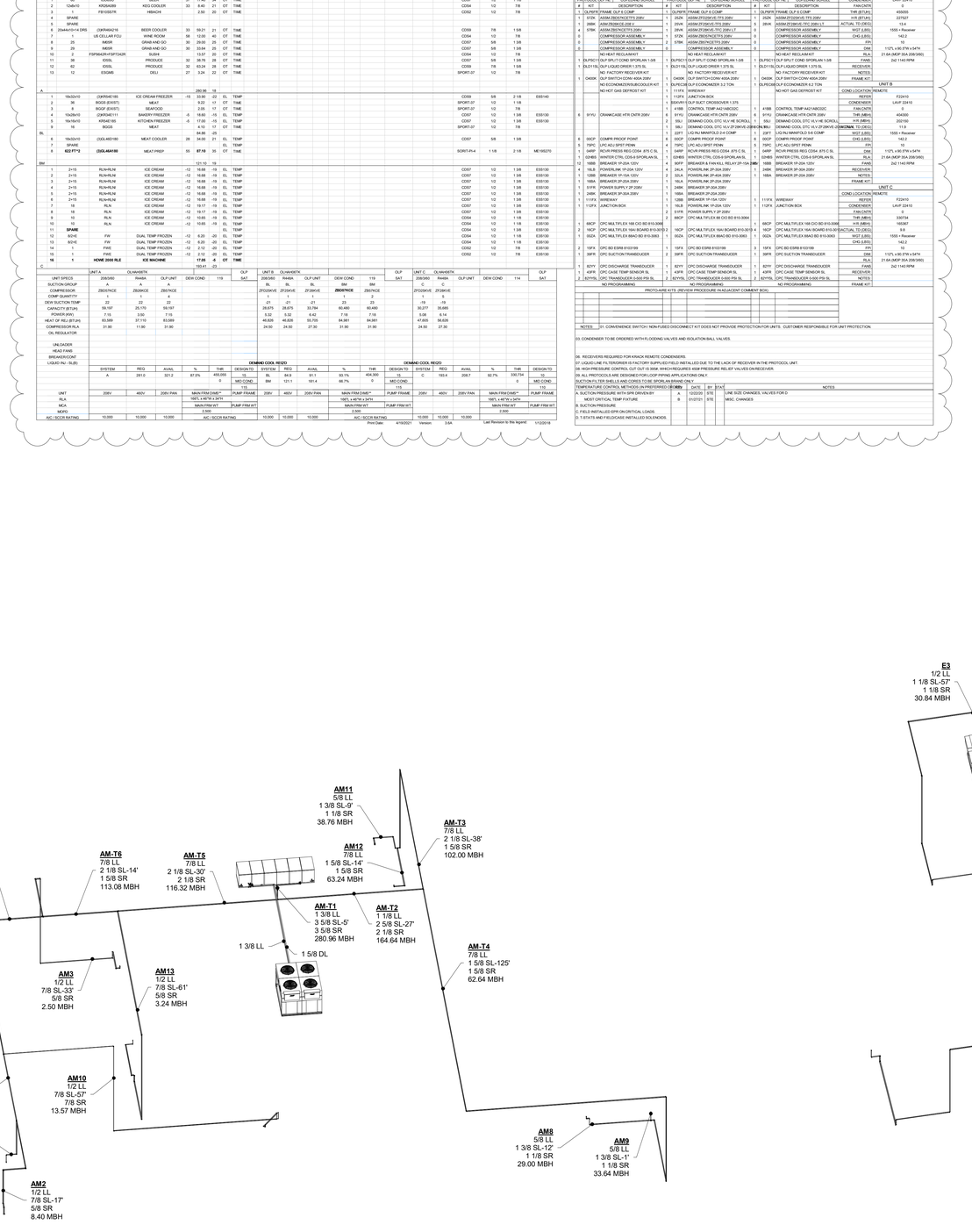
NORTH PLAN NORTH

REFRIGERATION LEGEND AND LINE SIZING SCHEMATIC

DRAWN:	DATE:
PSC	11/06/2017
SCALE:	JOB NUMBER:
6" = 1'-0"	95954

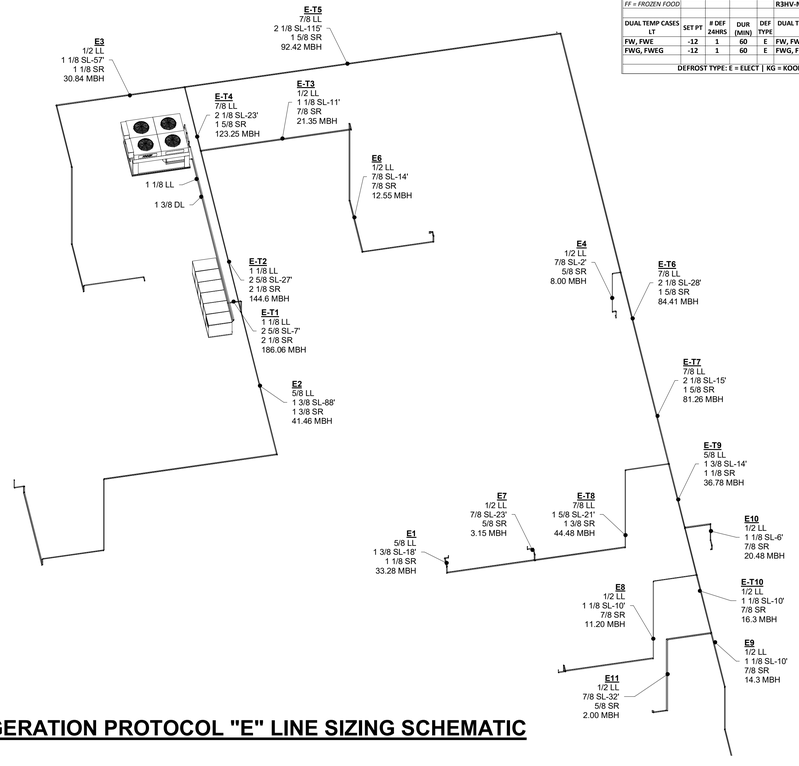
SHEET:
R4.1

PRELIMINARY - NOT FOR CONSTRUCTION



REFRIGERATION PROTOCOL "A" LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "E" LINE SIZING SCHEMATIC

SCALE: NTS

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
BY
DATE 08/26/2021

GENERAL SHEET NOTES

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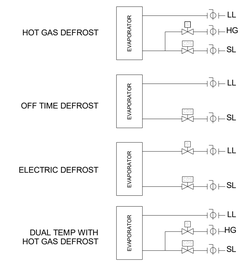
LINE SIZING VALVES KEY

NOTE: SEE LEGEND FOR VALVE TYPES & SIZES



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SET POINT STANDARDS USED BY THE CONTROLS DEPARTMENT

LOW TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
RACK				
KITCHEN FRZR	-5	3	18	KG
MAIN W/I FRZR	-10	2	20	KG
CHINESE FRZR	-5	2	45	E
BAKERY FRZR	-5	6	18	KG
PROTOCOL				
KITCHEN FRZR	-5	2	45	E
MAIN W/I FRZR	-10	2	45	E
CHINESE FRZR	-5	4	45	E
BAKERY FRZR	-5	6	45	E
W/I = WALK-IN				

LT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
DSFM	31	3	46	O
ESGMS, ESGSS	27	1	90	O
SMG, SMGV	24	1	70	O
SSGVE	24	1	70	O
RACK				
RL SERIES - FF	-5	1	20	KG
RL SERIES - IC	-12	1	20	KG
PROTOCOL				
RL SERIES - FF	-5	1	45	E
RL SERIES - IC	-12	1	45	E
IC = ICE CREAM				
FF = FROZEN FOOD				

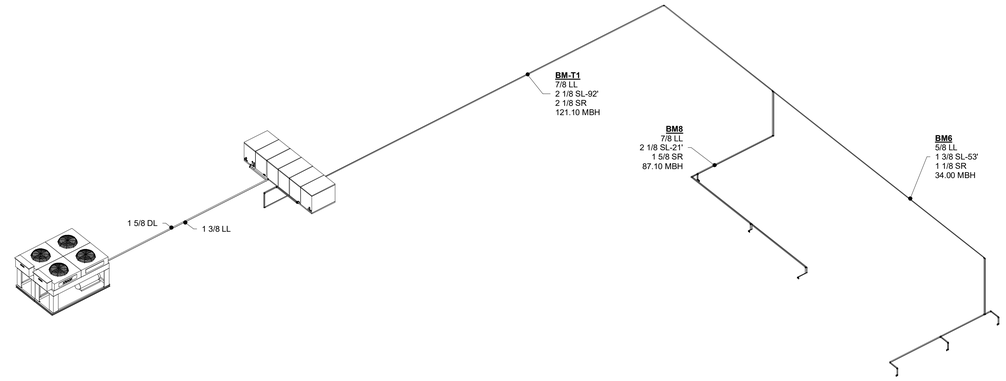
DUAL TEMP CASES LT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
FW, FWE	-12	1	60	E
FWG, FWEG	-12	1	60	E

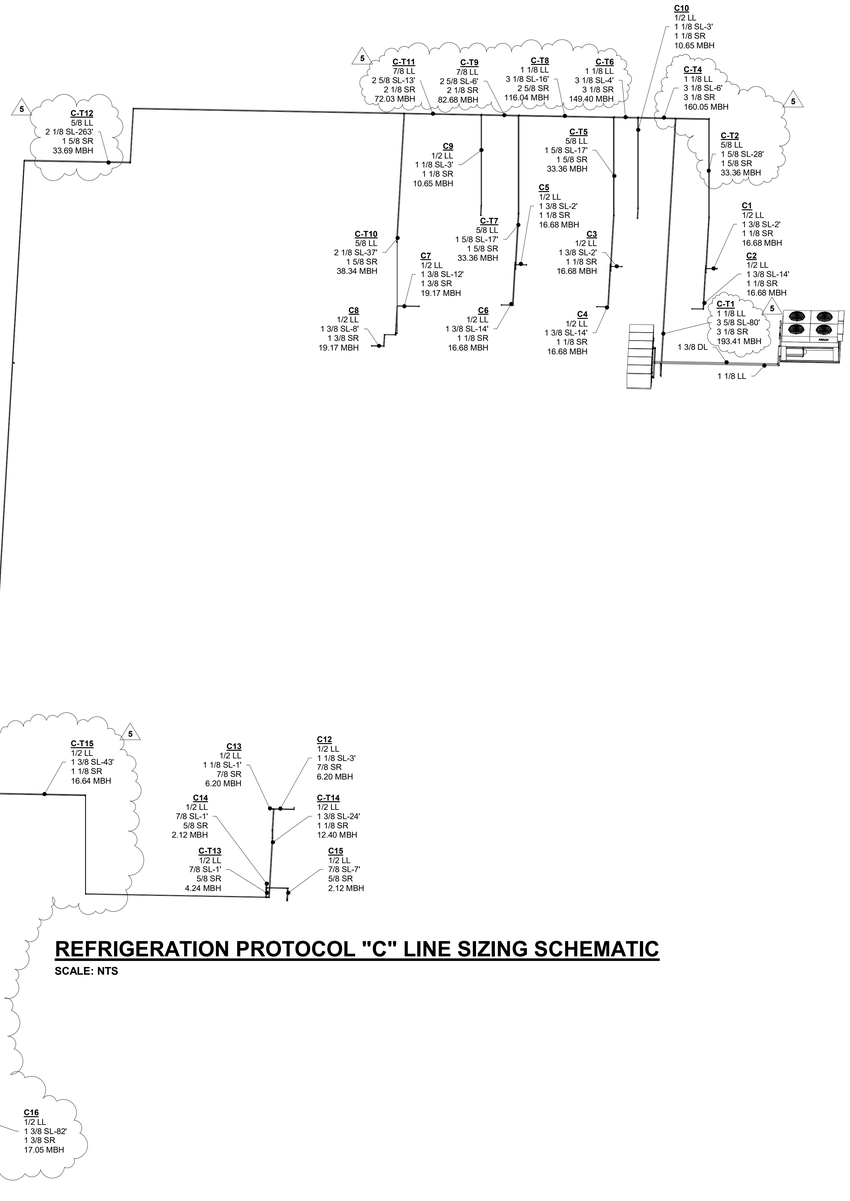
MED TEMP	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
KITCHEN CLR	34	4	60	O
DAIRY CLR	36	2	60	O
CHINESE CLR	36	3	45	O
BAKERY CLR	36	2	60	O
SEAFOOD CLR	36	1	30	E
PROD CLR	36	2	60	O
PROD PREP	55	2	90	O
MEAT CLR	50	3	45	E
MEAT PREP	55	1	150	O
FLORAL CLR	34	3	40	O
SALAD BAR	36	1	30	O
BEER CLR	36	2	60	O
DELI CLR	34	2	60	O

MT CASES	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
C2X-EP, LEP, XLEP	31	2	30	O
CSX-EP, LEP	31	2	30	O
CSX-EP, LEP	31	2	30	O
DSX, DSNX-LEP	30	3	30	O
DSX-ULEP	30	4	20	O
D5X-ULEP	30	4	25	O
D6X-ULEP	30	4	25	O
DD5X-ULEP	33	1	60	O
DD6X-ULEP	37	1	50	O
IM-R	32	6	20	O
M4X-EP	29	4	30	O
M5X-EP	30	4	30	O
PWWE	34	4	45	O
Q1-SS	26	4	30	O
R3HV-MF	24	4	40	O

DUAL TEMP CASES MT	SET PT	# DEF 24HRS	DUR (MIN)	DEF TYPE
FW, FWE	24	1	60	E
FWG, FWEG	24	1	60	E

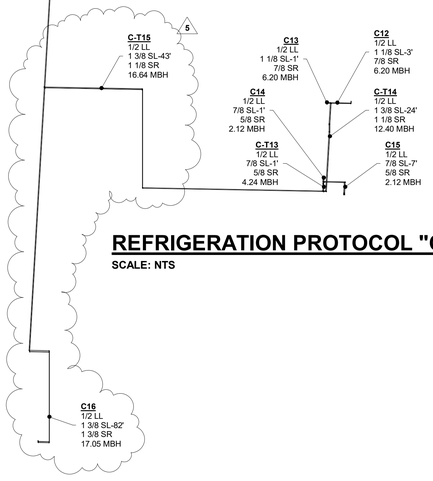
DEFROST TYPE: E = ELECT | KG = KOOL GAS | O = OFFTIME





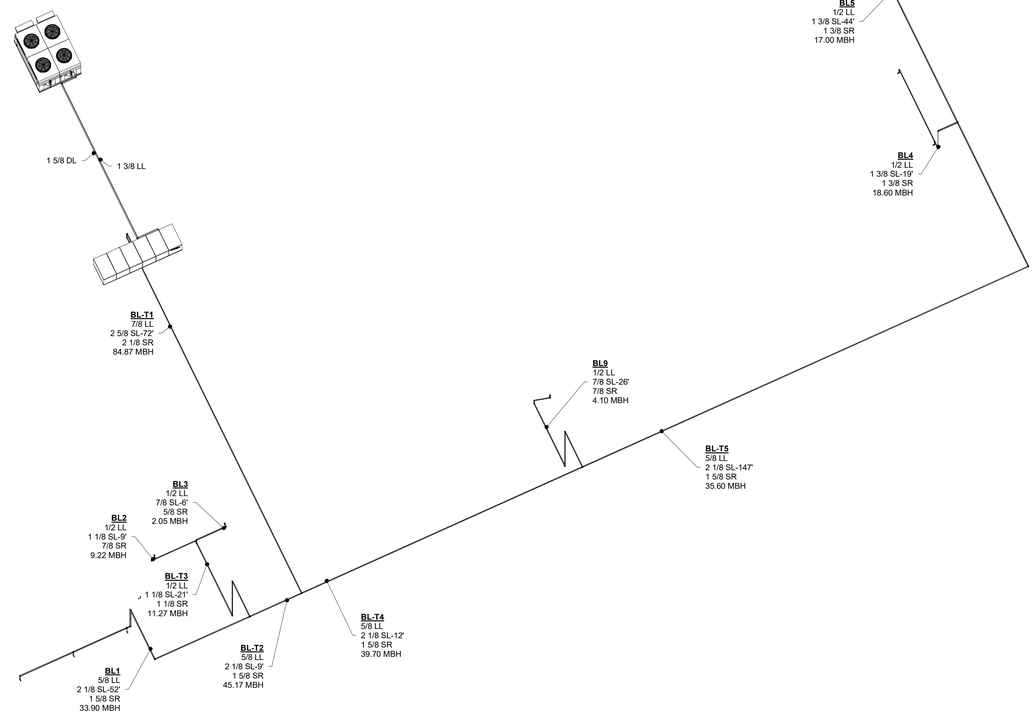
REFRIGERATION PROTOCOL "B" MEDIUM TEMP LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "C" LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION PROTOCOL "B" LOW TEMP LINE SIZING SCHEMATIC

SCALE: NTS

ENGINEER SEAL

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13770 Ramona Avenue
Chino, CA 91710
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LOCATION
LEE'S SUMMIT #2, MO

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

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

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
BY
DATE 12/15/2020

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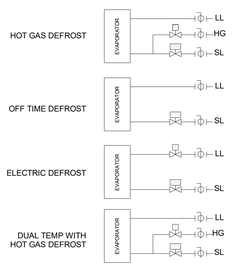

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ENGINEER SEAL

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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	**CSX-EP, LEP**	31	2	30	O
SMG, SMGV	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

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DRAWN:	DATE:
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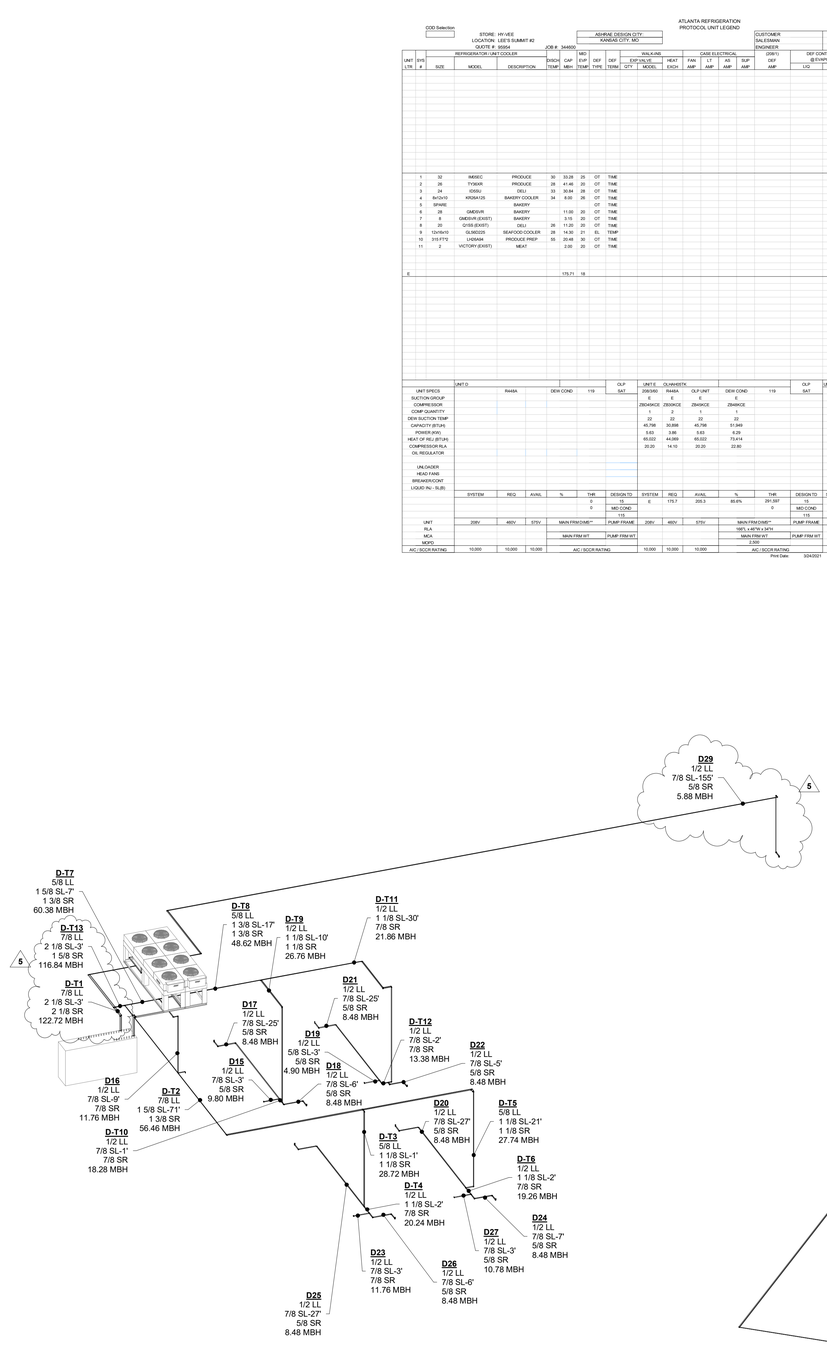
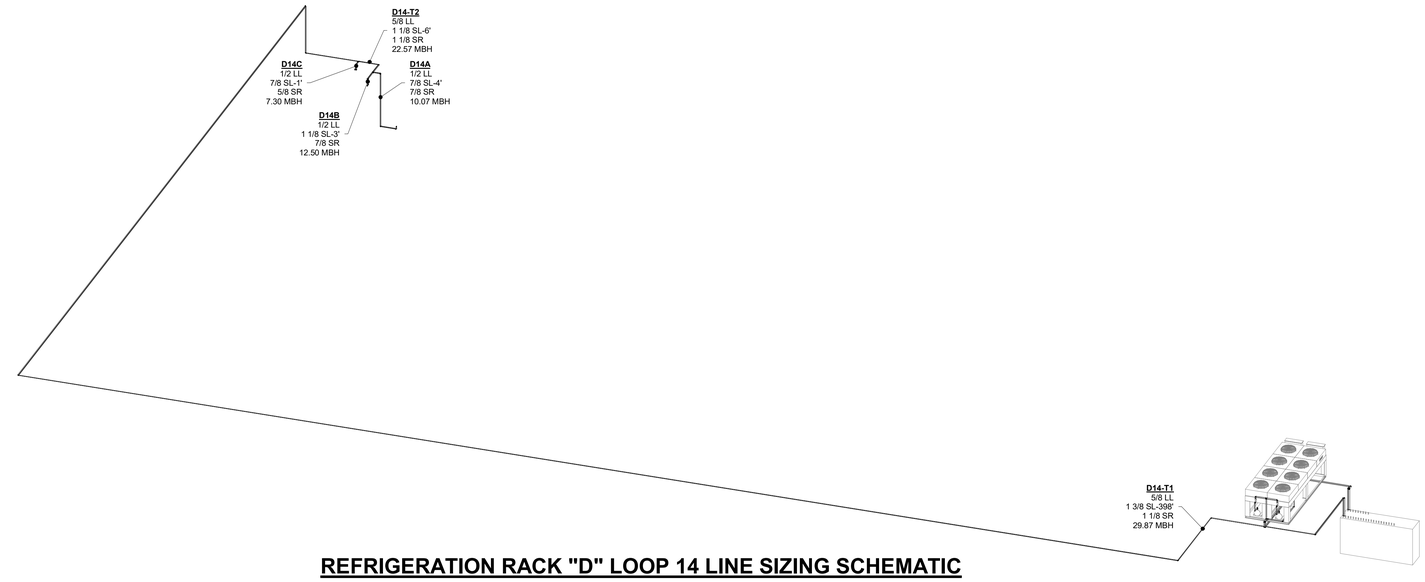
SCALE:	JOB NUMBER:
6" = 1'-0"	95954

SHEET:
R4.3



REFRIGERATION RACK "D" LOOP 15 LINE SIZING SCHEMATIC

SCALE: NTS



REFRIGERATION RACK "D" LOOP 14 LINE SIZING SCHEMATIC

SCALE: NTS

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