

| EQUIPMENT INSTALLATION AND SERVICE CONNECTIONS | | | | | | | | | | NOTE: NOT ALL ITEMS LISTED ARE USED ON THIS PROJECT | |
|--|---|---|--|----------|------------------------------|------------------------------|---------------------|--|--------------------------------|---|---|
| EQUIPMENT | MARK | FURNISHED BY | INSTALLED BY | GAS | CW | HW | DRAIN | WASTE | APPLICABLE DETAILS OR DRAWINGS | COMMENTS AND OTHER RELATED WORK | |
| GAS WATER HEATER | WH-1 WH-2 | PLUMBER | PC | 1" 1" | 1-1/4" SOFT CW | 1-1/4" 1-1/4" | 1" 1" | | | PROVIDE 1" DRAIN PIPING. PROVIDE CIRCULATING PUMP CPI AND CONTROL WITH AQUASTAT. EXTEND PVC COMBUSTION AND EXHAUST PIPING THROUGH ROOF AND TERMINATE PER MANUFACTURERS INSTRUCTIONS. FURNISH GAS REGULATOR. | |
| ELECTRIC WATER HEATER | WH-3,4,5,6 | PLUMBER | PC, EC | | SEE PLAN | SEE PLAN | | | | | |
| TANKLESS WATER HEATER | TWH | PLUMBER | PC, EC | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN | | P2.0B | REFER TO TANKLESS WATER HEATER DETAIL FOR QUANTITY AND ARRANGEMENT OF UNITS AND FOR VALVES, DEVICES, AND INTAKE AND EXHAUST. FURNISH GAS REGULATOR. | |
| ELECTRIC WATER COOLER | EW-C | PLUMBER | PC, EC | | 1/2" | | | 1-1/2" | | ELKAY WALL MOUNT, BARRIER FREE. | |
| HAND SINK | HS | OWNERS VENDOR | PC | | 1/2" | 1/2" | | | P4.1 | SENSOR FAUCET AND MIXING VALVE FURNISHED WITH HAND SINK. | |
| COUNTERTOP SINK - PHARMACY, CHEFS STATION (CHEF STATION SINK FURNISHED BY MILLWORK VENDOR) | S-1A | PLUMBER | PC | | 1/2" | 1/2" | | | | BOWL, SIZE: 12" X 25.5" X 10.25". ELKAY BLR-152, PROVIDE GOOSENECK FAUCET, 1.5 GPM FLOWRATE WITH WRIST BLADE HANDLES. PROVIDE P-TRAP AND STOPS. | |
| COUNTERTOP SINK - BREAKROOM, CLINIC | S-1B | PLUMBER | PC | | 1/2" | 1/2" | | | | BOWL, SIZE: 20"X16"X7.7" W/ BRUSHED SATIN FINISH. ELKAY LR-2222 OR EQUIVALENT, PROVIDE GOOSENECK FAUCET, 1.5 GPM FLOWRATE WITH WRIST BLADE HANDLES. PROVIDE P-TRAP AND STOPS. | |
| COUNTERTOP SINK - KITCHEN | S-1C | OWNERS VENDOR | PC | | 1/2" | 1/2" | | | | ADVANCE TABCO DI-1-25 MOUNTED IN STAINLESS STEEL COUNTERTOP. | |
| 2 COMPARTMENT SINKS: FLORAL SINK, SEAFOOD/SERVICE MEAT COOKING SCHOOL / CLUB/MEETING ROOM | S-2A S-2B S-2C | OWNERS VENDOR OWNERS VENDOR PLUMBER | PC PC PC | | 1/2" 3/4" 1/2" | 1/2" 3/4" 1/2" | | SEE PLAN SEE PLAN P4.1 | P4.1 | INSTALL CUT FLOWER UNIT <input type="text" value="26"/> ON FLORAL SINK. PROVIDE SHUT-OFF VALVE. PRV-B AND WHA ON WATER CONNECTION. PROVIDE WATTS #800 OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS TO EACH SINK. INSTALL 1/2" CW & HW CHEMICAL DISPENSER ROUGH-IN WITH APPROVED BACKFLOW PREVENTION DEVICE AND VALVES ABOVE 3-COMPARTMENT SINKS. PROVIDE FAUCET "F" UNDER S-3 SINK DECK FOR CHEMICAL DISPENSER. INSTALL APPROVED BACKFLOW PREVENTION DEVICE AS REQUIRED BY AHJ. | |
| 3 COMPARTMENT SINKS: BAKERY, SALAD PRODUCE/PREP, MEAT CUTTING SERVICE DELI | S-3B S-3C S-3D S-3E | OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR | PC PC PC PC | | 3/4" 3/4" 3/4" 3/4" | 3/4" 3/4" 3/4" 3/4" | | SEE PLAN SEE PLAN SEE PLAN SEE PLAN | P4.1 P4.1 P4.1 P4.1 | INSTALL 1/2" CW & HW CHEMICAL DISPENSER ROUGH-IN WITH APPROVED BACKFLOW PREVENTION DEVICE AND VALVES ABOVE 4-COMPARTMENT SINKS. PROVIDE SHUT-OFF VALVE. PRV-B AND WHA ON WATER CONNECTION. PROVIDE WATTS #800 OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS TO EACH SINK. INSTALL 1/2" CW & HW CHEMICAL DISPENSER ROUGH-IN WITH APPROVED BACKFLOW PREVENTION DEVICE AND VALVES ABOVE 3-COMPARTMENT SINKS. PROVIDE FAUCET "F" UNDER S-3 SINK DECK FOR CHEMICAL DISPENSER. INSTALL APPROVED BACKFLOW PREVENTION DEVICE AS REQUIRED BY AHJ. | |
| 4 COMPARTMENT SINKS: KITCHEN, ASIAN KITCHEN | S-4 S-4 | OWNERS VENDOR OWNERS VENDOR | PC, EC PC, EC | | 3/4" 3/4" | 3/4" 3/4" | | SEE PLAN SEE PLAN | P4.1 P4.1 | INSTALL 1/2" CW & HW CHEMICAL DISPENSER ROUGH-IN WITH APPROVED BACKFLOW PREVENTION DEVICE AND VALVES ABOVE 4-COMPARTMENT SINKS. PROVIDE SHUT-OFF VALVE. PRV-B AND WHA ON WATER CONNECTION. PROVIDE WATTS #800 OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS TO EACH SINK. INSTALL 1/2" CW & HW CHEMICAL DISPENSER ROUGH-IN WITH APPROVED BACKFLOW PREVENTION DEVICE AND VALVES ABOVE 3-COMPARTMENT SINKS. PROVIDE FAUCET "F" UNDER S-3 SINK DECK FOR CHEMICAL DISPENSER. INSTALL APPROVED BACKFLOW PREVENTION DEVICES AS REQUIRED BY AHJ. | |
| PRODUCE SINK | S-5 | OWNERS VENDOR | PC | | 3/4" | 3/4" | | SEE PLAN | P4.1 | FAUCET "F" UNDER S-6 SINK DECK FOR CHEMICAL DISPENSER. INSTALL APPROVED BACKFLOW PREVENTION DEVICE AS REQUIRED BY AHJ. | |
| CULINARY SINK | S-6 | OWNERS VENDOR | PC | | 1/2" | 1/2" | | SEE PLAN | P4.1 | | |
| REFRIGERATED CASES: GENERAL MEAT, PRODUCE | | OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR | RC, EC RC, EC RC, EC | | 3/4" 1/2" 3/4" | | | | | INDIRECT WASTE FOR ALL CASES BY REFRIGERATION CONTRACTOR. PROVIDE RO LINE TO PRODUCE CASES FOR MISTER SYSTEM. PROVIDE 3/4" CW TO PRODUCE AND FROZEN CASE WASH-DOWN AS INDICATED ON PLAN. PROVIDE FILTERED WATER PIPING TO MEAT AND SEAFOOD CASES AS INDICATED ON PLAN. | |
| SALAD BAR | <input type="text" value="1"/> | OWNERS VENDOR | RC, PC, EC | | 1/2" | 1/2" | 1" | 3" FS | | PROVIDE FAUCET "F" UNDER SALAD BAR. | |
| BEVERAGE BAR | <input type="text" value="2"/> | OWNERS VENDOR | PC, EC | | 1/2" | 1/2" | | 3" FS | | PROVIDE 1/2" HW AND CW. INSTALL OWNER SUPPLIED WATER FILTER <input type="text" value="30"/> . | |
| POP DISPENSER | <input type="text" value="3"/> | OWNERS VENDOR | PC, EC | | 1/2" FW | | | 3" FS | | PROVIDE BFP-2 AND SHUT-OFF VALVE. INSTALL FILTER <input type="text" value="30"/> AND PRV-B. PIPE OVERFLOW TO FLOOR DRAIN. | |
| ARTISAN BREAD DECK OVEN | <input type="text" value="4"/> | OWNERS VENDOR | PC, EC, MC | | 3/4" | | SEE MANUF. DRAWINGS | | | PROVIDE INDIRECT WASTE TO FLOOR SINK. PROVIDE SHUT-OFF VALVE AT EACH OVEN. PROVIDE INDIRECT WASTE FROM CHARCOAL WATER FILTER TO FLOOR DRAIN. | |
| ICE MAKER | <input type="text" value="5"/> | OWNERS VENDOR | PC, EC | | 1/2" | | 3/4" | | | PROVIDE INDIRECT WASTE TO FLOOR DRAIN. PROVIDE SHUT-OFF VALVE. | |
| COMBI OVEN | <input type="text" value="6"/> | OWNERS VENDOR | PC, EC | | 1/2" | | 2" | 3" FS | | ROUTE INDIRECT DRAIN TO FLOOR SINK. UNDER FLOOR PIPING SERVING FLOOR SINK MUST BE CAST IRON FOR A MINIMUM OF 10 FEET DOWNSTREAM OF OVEN. | |
| STEAMER | <input type="text" value="7"/> | OWNERS VENDOR | EC | | | | | | | | |
| DISHWASHER, 1st PRE Rinse | <input type="text" value="8"/> | OWNERS VENDOR | PC, EC | | 1/2" | 1/2" | 2" | SEE PLAN | | PROVIDE INDIRECT WASTE TO FLOOR SINK. PROVIDE SHUT-OFF VALVE. PRV-B AND WHA ON WATER CONNECTION. PROVIDE WATTS #800 OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS. | |
| FIREPLACE | <input type="text" value="9"/> | OWNERS VENDOR | PC, EC | 3/4" | | | | | | PROVIDE GAS SHUTOFF VALVE AT FIREPLACE. VALVE TO BE IN ACCESSIBLE LOCATION. | |
| TEA, JET, CAPPUCCINO / ESPRESSO, ORANGE JUICE | <input type="text" value="10"/> | OWNERS VENDOR | PC, EC | | 1/2" FW | | 3" FS | | | PROVIDE SHUT-OFF VALVE UNDER COUNTERTOP. | |
| PROOF BOX | <input type="text" value="11"/> | OWNERS VENDOR | PC, EC | | 1/2" FW | | 1/2" | | | PROVIDE INDIRECT WASTE TO FLOOR SINK. | |
| MIXER FILL | <input type="text" value="12"/> | OWNERS VENDOR | PC | | 1/2" | | | | | PROVIDE PRV AND INSTALL WALL MOUNT POT FILLER. MOUNT POT FILLER AT 48" AFF. | |
| PAN WASHER | <input type="text" value="13"/> | OWNERS VENDOR | PC, EC, MC | | | 1/2" | | | | PROVIDE INDIRECT WASTE TO FLOOR SINK. INSTALL WHA IN HW BRANCH. | |
| ICE FLAKER | <input type="text" value="14"/> | OWNERS VENDOR | PC, EC | | 1/2" | | 3/4" | | | PROVIDE INDIRECT WASTE TO FLOOR DRAIN. INSTALL OWNER SUPPLIED WATER FILTER <input type="text" value="30"/> . | |
| WASHROOM | <input type="text" value="15"/> | OWNERS VENDOR | PC | | 3/4" | 3/4" | | | | PROVIDE FAUCET "F" @ 42" AFF. | |
| FLOOR MACHINE | <input type="text" value="16"/> | OWNERS VENDOR | PC | | 3/4" | 3/4" | | | | PROVIDE FAUCET "F" @ 42" AFF AND BFP-2 ON HW AND CW. | |
| KITCHEN COOKING EQUIP.: GRIDDLE, GAS RANGE/OVEN, FRYER (ELEC), CONVECTION OVEN, CHARROLLER | <input type="text" value="17"/> <input type="text" value="18"/> <input type="text" value="19"/> <input type="text" value="31"/> <input type="text" value="32"/> | OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR | PC, EC PC, EC PC, EC PC, EC PC | SEE PLAN | | | | | | INSTALL AUTOMATIC GAS VALVE PROVIDED BY IOWA FIRE COMPANY IN BRANCH PIPING TO EQUIP. INSTALL VALVE IN SERVICEABLE LOCATION. PROVIDE GAS COCK AT EACH PIECE OF EQUIPMENT AND INSTALL DOUBLE WALL FLEXIBLE CONNECTOR PROVIDED WITH EQUIPMENT. INSTALL 1" CW WITH LOCKABLE BALL VALVE TO HOOD AUTOMAN SYSTEM. VALVE IS PROVIDED BY IOWA FIRE COMPANY AND MUST BE INSTALLED WITHIN 5' OF AUTOMAN SYSTEM. | |
| ASIAN / ITALIAN EQUIPMENT: PIZZA OVEN, RICE COOKER, WOK, GAS FRYER | <input type="text" value="20"/> <input type="text" value="21"/> <input type="text" value="22"/> <input type="text" value="23"/> | OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR | PC, EC PC, EC PC, EC PC, EC | SEE PLAN | 1/2" | | 3" | | | INSTALL AUTOMATIC GAS VALVE PROVIDED BY IOWA FIRE COMPANY IN BRANCH PIPING TO EQUIP. INSTALL VALVE IN SERVICEABLE LOCATION. PROVIDE GAS COCK AT EACH PIECE OF EQUIPMENT AND INSTALL DOUBLE WALL FLEXIBLE CONNECTOR PROVIDED WITH EQUIPMENT. PROVIDE INDIRECT WASTE AND PIPING TO FLOOR SINKS. | |
| BAKERY OVEN | <input type="text" value="24"/> | OWNERS VENDOR | PC, EC, MC | SEE PLAN | 1/2" FW | | 1" | | | INSTALL AUTOMATIC GAS VALVE PROVIDED BY IOWA FIRE COMPANY IN BRANCH PIPING TO EQUIP. INSTALL VALVE IN SERVICEABLE LOCATION. PROVIDE GAS COCK AT EACH PIECE OF EQUIPMENT AND INSTALL DOUBLE WALL FLEXIBLE CONNECTOR PROVIDED WITH EQUIPMENT. PROVIDE INDIRECT WASTE TO FLOOR DRAIN. | |
| R.O. WATER PURIFIER AND DISPENSING UNIT | <input type="text" value="25"/> | OWNERS VENDOR | PC, EC | | 1" SOFT CW | | 3/4" | | | PROVIDE SHUTOFF VALVES AND PRV AND BFP-3 AT INLET TO R.O. WATER PURIFIER. SEE RO STANDARD FOR PIPING TO SYSTEM. | |
| CUT FLOWER UNIT | <input type="text" value="26"/> | OWNERS VENDOR | PC | | 1/2" | | | | | MOUNT UNIT ON WALL ABOVE FLORAL SINK. PROVIDE SHUTOFF VALVE, PRV, AND BFP-2 AT INLET. | |
| WATER SOFTENER | <input type="text" value="27"/> | OWNERS VENDOR | PC, EC | | 2" | | | | | PROVIDE SHUTOFF VALVES W/ FULL SIZE VALVE BYPASS AT EQUIPMENT. PIPE SOFTENED CW TO WATER HEATERS. PROVIDE CW HOSE BIBB NEARBY FOR WASHING DOWN AREA. | |
| COFFEE KIOSK EQUIPMENT: SINKS, WATER FILTER | <input type="text" value="28"/> | OWNERS VENDOR | PC, EC, RC | | 1" SOFT CW | | | COFFEE KIOSK SHOP DRAWINGS | | INSTALL AND HOOK UP EQUIPMENT. PROVIDE SOFT CW WITH BFP-1 TO WATER FILTER UNIT. INSTALL FILTER AND PROVIDE FILTER WATER PIPING TO EACH PIECE OF EQUIPMENT. PROVIDE INDIRECT WASTE AND PIPING TO FLOOR SINKS. | |
| ROTTISERIE | <input type="text" value="29"/> | OWNERS VENDOR | PC, EC | SEE PLAN | SEE PLAN | | | | | FOR GAS ROTTISERIE, INSTALL AUTOMATIC GAS VALVE PROVIDED BY IOWA FIRE COMPANY IN BRANCH PIPING TO EQUIP. INSTALL VALVE IN SERVICEABLE LOCATION. PROVIDE GAS COCK AT EACH PIECE OF EQUIPMENT AND INSTALL DOUBLE WALL FLEXIBLE CONNECTOR. PROVIDE INDIRECT WASTE TO FLOOR SINK. | |
| WATER FILTER | <input type="text" value="30"/> | OWNERS VENDOR | PC | | SEE PLAN | | SEE PLAN | | | PROVIDE SHUTOFF VALVES AT INLET AND OUTLET AND MOUNT FILTER ON WALL (VERIFY HEIGHT AT EACH LOCATION). PIPE FILTERED CW TO BAKERY OVEN, PROOF BOX, COFFEE BREWERS, POP DISPENSER, ICE MACHINES, MEAT AND SEAFOOD CASES AS INDICATED ON PLAN. | |
| CHEMICAL DISPENSER | <input type="text" value="33"/> | OWNERS VENDOR | PC | | 1/2" | 1/2" | | P4.1 | | LOCATED ABOVE 3 & 4 COMPARTMENT SINKS AND CONNECTED TO FAUCET "F" BENEATH MEAT SINK S-3D AND PRODUCE SINK S-5. PLUMBING CONTRACTOR IS TO PROVIDE 1/2" CW & HW ROUGH-IN ABOVE 3 & 4 COMPARTMENT SINKS AND S-6 WITH APPROVED BACKFLOW PREVENTION DEVICE AND SHUTOFF VALVES. | |
| HVAC EQUIPMENT: EVAPORATORS, ROOFTOP UNITS, MAKE-UP AIR UNITS, UNIT HEATERS, DEHUMIDIFICATION UNITS | EVAP, RTU, MUA, UH, DHU | OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR OWNERS VENDOR | RC, EC MC, PC, EC MC, PC, EC MC, PC, EC | SEE PLAN | | | | | | SEE P3.0 AND "H" or "M" DWGS | |
| GENERATOR | GEN | OWNERS VENDOR | PC, EC | SEE PLAN | | | | P4.0 | | PROVIDE GAS PIPING AND EXHAUST PIPING. | |
| FREEZER COILS, COOLERS COILS | EVAP, COIL | OWNERS VENDOR | RC, EC | | | | | | | CONDENSATE PIPING BY REFRIGERATION CONTRACTOR. | |
| NOTES: 1. PLUMBING, ELECTRICAL, MECHANICAL, AND REFRIGERATION CONTRACTORS SHALL VERIFY ALL CONNECTION AND ROUGH-IN REQUIREMENTS PRIOR TO ROUGH-IN OF SERVICES. 2. 'OWNERS VENDOR' SHALL BE DEFINED AS HY-VEE CONSTRUCTION CO., HY-VEE EQUIPMENT PURCHASING, HY-VEE ENGINEERING, HY-VEE SETUP SUPERVISORS, OR APPROVED OTHERS. 3. 'PROVIDE' SHALL BE DEFINED AS TO FURNISH AND INSTALL ITEM. 4. FOR EQUIPMENT AND ITEMS FURNISHED BY OWNERS VENDOR AND INSTALLED BY "PC," "EC," "MC," AND "RC," THE RESPECTIVE CONTRACTOR SHALL RECEIVE, STORE AND PROTECT, SET IN PLACE, ASSEMBLE, AND MAKE FINAL CONNECTIONS TO FIXTURE OR EQUIPMENT ITEM INCLUDING PROVIDING BACKING FOR WALL SUPPORTED ITEMS AND CAULKING AND FINAL, CLEANING OF ITEM. PROVIDE ALL ROUGH-IN MATERIALS NECESSARY FOR A COMPLETE INSTALLATION. 5. REFER TO DRAWING P-4.0 FOR CROSS CONNECTION AND BACKFLOW PREVENTION INFORMATION. 6. SINKS AND FAUCETS PROVIDED BY HY-VEE ARE PROVIDED WITH HY-VEE SUPPLIED MIXING VALVES. SINKS AND FAUCETS NOT PROVIDED BY HY-VEE SHALL HAVE PLUMBING CONTRACTOR SUPPLIED MIXING VALVES, WHERE REQUIRED. | | | | | | | | | | | REFERENCES: PC PLUMBING CONTRACTOR EC ELECTRICAL CONTRACTOR MC MECHANICAL (HVAC) CONTRACTOR RC REFRIGERATION CONTRACTOR |

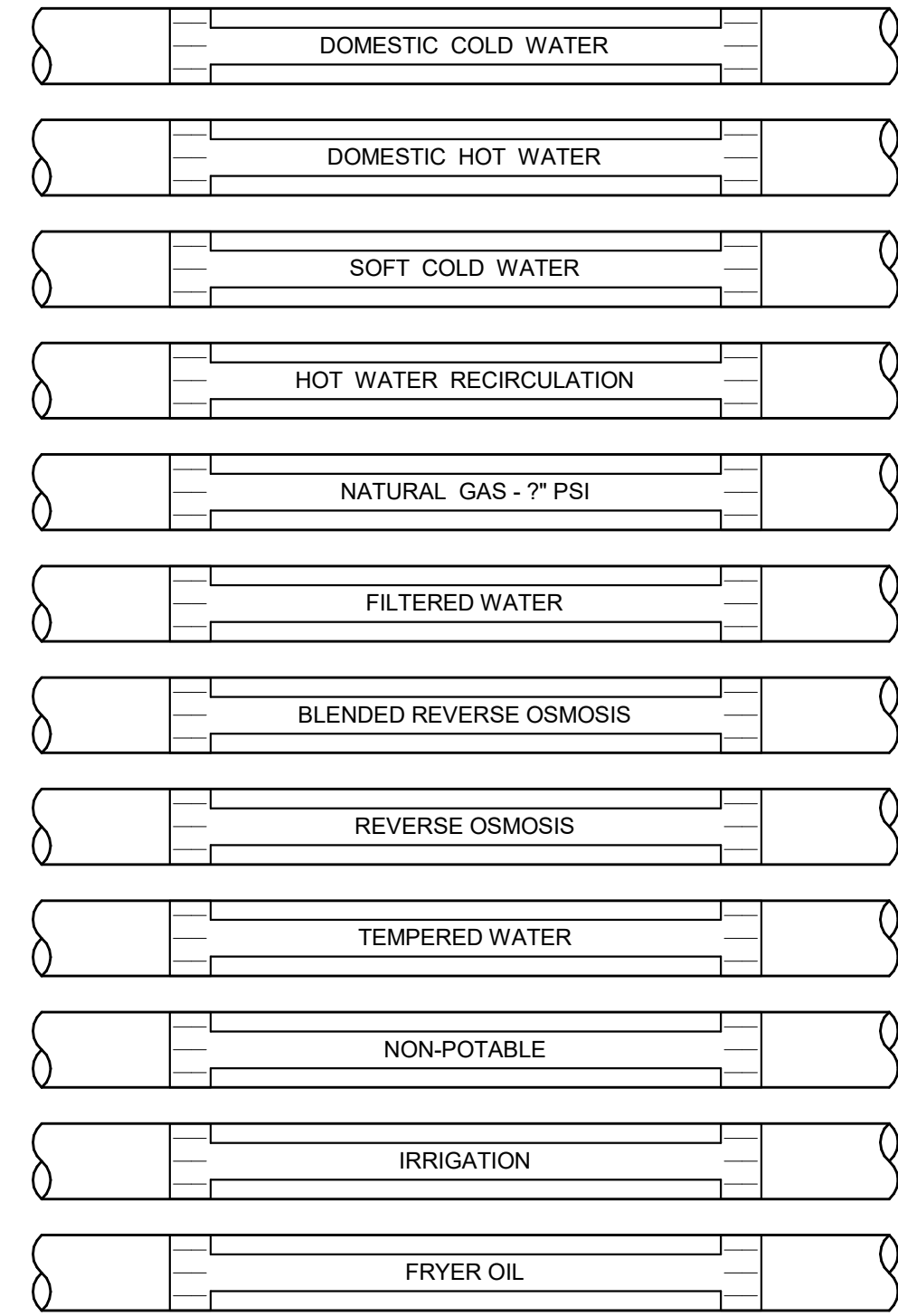
| PLUMBING FIXTURES AND SPECIALTIES | | NOTE: NOT ALL PLUMBING FIXTURES LISTED ARE USED ON THIS PROJECT | |
|---|---|---|--|
| PLUMBING FIXTURES ARE WHITE IN COLOR UNLESS OTHERWISE INDICATED. EQUAL FIXTURES BY KOHLER, CRANE, ZURN, AND ELJER WILL BE APPROVED. SUBSTITUTIONS FOR FLUSH VALVES AND OTHER FIXTURES WILL NOT BE CONSIDERED. | | | |
| WC | WATER CLOSET - KOHLER KINGSTON SERIES WALL MOUNTED WATER CLOSET, SLOAN ECOS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH 1.28 GPF, AND BENKE #823 SEAT. PROVIDE WITH COMPATIBLE CARRIER. CARRIER TO FIT IN 12" WALL FOR SINGLE FIXTURES AND 18" WALL WITH BACK-TO-BACK FIXTURES. | | |
| HWC | HANDICAP WATER CLOSET - KOHLER KINGSTON SERIES WALL MOUNTED WATER CLOSET INSTALLED AT ADA HEIGHT, SLOAN ECOS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH 1.28 GPF, AND BENKE #823 SEAT. PROVIDE WITH COMPATIBLE CARRIER. CARRIER TO FIT IN 12" WALL FOR SINGLE FIXTURES AND 18" WALL WITH BACK-TO-BACK FIXTURES. | | |
| WC2 | WATER CLOSET - KOHLER HIGHLINE SERIES FLOOR MOUNTED WATER CLOSET, SLOAN ECOS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH 1.28 GPF, AND BENKE #823 SEAT. | | |
| HW2 | HANDICAP WATER CLOSET - KOHLER HIGHLINE SERIES ADA COMPLIANT WATER CLOSET, SLOAN ECOS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH 1.28 GPF, AND BENKE #823 SEAT. | | |
| UR | URINAL - KOHLER BARON SERIES URINAL, SLOAN HEU SYSTEMS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH ONE PNT OF WATER. PROVIDE SMITH CARRIER. | | |
| HUR | HANDICAP URINAL - KOHLER BARON SERIES URINAL, INSTALLED AT ADA HEIGHT, SLOAN HEU SYSTEMS BATTERY OPERATED FLUSH VALVE DESIGNED TO FLUSH WITH ONE PNT OF WATER. PROVIDE SMITH CARRIER. | | |
| L-1 | LAVATORY - KOHLER K-1728 CHESAPEAKE 19x17" MOUNT LAVATORY, SLOAN #BFP5490M, 5 GPM OPTIMA BATTERY OPERATED FAUCET WITH BELOW DECK MIXING VALVE, POP-UP DRAIN, TALPIECE, TRAP, LAV CARRIER, AND SUPPLIES WITH STOPS. PROVIDE PIPE INSULATION FOR UNDER-SINK WASTE AND WATER PIPING FOR ADA COMPLIANCE WHERE APPLICABLE. MOUNT WITH RIM @ 43" AFF. | | |
| L-3A | LAVATORY - STARON MODEL A3211 INTEGRAL LAVATORY BOWL, PEARL COLOR, FURNISHED AND INSTALLED WITH COUNTERTOP. PROVIDE SLOAN #BFP5490M OPTIMA BATTERY OPERATED FAUCET WITH BELOW DECK MIXING VALVE, POP-UP DRAIN, TALPIECE, TRAP, AND SUPPLIES WITH STOPS. | | |
| L-3B | HANDICAP LAVATORY/MOISTENERS ROOM SINK - SAME AS L-3A BUT PROVIDE PIPE INSULATION AND JACKET FOR UNDER-COUNTER WASTE AND WATER PIPING. INSTALL IN ACCORDANCE WITH ADA CODE. | | |
| J51 | JANITOR'S SINK - MUSTIE #624 24"x30"x10" H. DURASTONE MOP SINK WITH #63.600 HOSE END SERVICE 1.5 GPM FAUCET WITH NON-REMOVABLE VACUUM BREAKER, #65.700 HOSE AND HOSE BRACKET, #63401 BUMPER GUARDS (ALL EXPOSED SIDES), AND #65.600 MOP HANGER. | | |
| J52 | JANITOR'S SINK - MUSTIE #624 24"x30"x10" H. DURASTONE MOP SINK WITH #63.600 HOSE END SERVICE 1.5 GPM FAUCET WITH NON-REMOVABLE VACUUM BREAKER, #65.700 HOSE AND HOSE BRACKET, #63401 BUMPER GUARDS (ALL EXPOSED SIDES), AND #65.600 MOP HANGER. | | |
| F | FAUCET - MUSTIE MODEL #63.600 HOSE END FAUCET WITH NON-REMOVABLE VACUUM BREAKER. PROVIDE WATTS #800 OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS TO FAUCET. | | |
| F1 | FAUCET - T&S BRASS #B-673-RC HEAVY DUTY SERVICE SINK FAUCET, 4-1/2" TO WALL TO CENTER OF OUTLET. ROUGH CHROME PLATED FINISH, AND 3/4" HOSE THREAD ON OUTLET. PROVIDE #800 WATTS OR EQUAL SPRING CHECK VALVES IN HW AND CW DROPS TO FAUCET. MOUNT FAUCET UNDER COUNTERTOP, 18" AFF, AND ON OUTBOARD SIDE OF LAVATORY ROUGH-IN. | | |
| FWH | FREEZEPROOF WALL HYDRANT - JOSAM #1050 3/4" WALL HYDRANT, NON-REMOVABLE VACUUM BREAKER, KEY OPERATOR, AND LENGTH AS REQUIRED. FURNISH A KEY FOR EACH HYDRANT. MOUNT FWH 18" ABOVE GRADE UNLESS NOTED OTHERWISE. | | |
| HBI | HOSE BIBB - CHICAGO FAUCET 3/4" SERIES WITH CHROME FINISH, 3/4" INLET, 3/4" HOSE THREADED OUTLET, AND NON-REMOVABLE VACUUM BREAKER. MOUNT HOSE BIBBS 42" AFF UNLESS NOTED OTHERWISE. | | |
| H2 | HOSE BIBB - SAME AS HBI. H2 HOSE BIBBS TO BE INSTALLED ON TOP OF CASES FOR CASE WASH-DOWN. SEE DRAWING P2.0. | | |
| H2 | HOSE BIBB - WOODFORD MODEL RHY2 FREEZE-RESISTANT ROOF HYDRANT, 3/4" MALE HOSE THREAD DIA. CHECK BACKFLOW PREVENTER ON OUTLET WITH INTEGRAL VENT, 1" NPT INLET, ONE PIECE PLUNGER, 18" AUTOMATIC DRAIN, 6" DIA. OR TO ROOF BOOT. PIPE DRAIN TO NEARBY RECEPTOR. | | |
| SH | SHOWER UNIT - KOHLER MODEL K-1210-6C 45"x31" 26"X4" BARRIER FREE, WHITE, ADA SHOWER UNIT WITH BRUSHED, STAINLESS STEEL GRAB BARS, AND FOLDING SEAT. PROVIDE SLOAN OPTIMA PRESSURE BALANCED SHOWER MIXING VALVE AND 1.5 GPM SHOWER HEAD. SHOWER VALVE SHALL COMPLY WITH LEED CERTIFICATION REQUIREMENTS. | | |
| PRV-A | PRESSURE REDUCING VALVE - WATTS #115E WITH CAST IRON BODY, STANDARD TRIM, AND 263AP CONTROL PILOT. PROVIDE WATTS #223 3/4" LOW DEMAND AUXILIARY REGULATOR AND BYPASS PIPING. SET PRESSURE REDUCING VALVE AT 60 PSI DELIVERY PRESSURE AND SET AUXILIARY REGULATOR FOR 70 PSI DELIVERY PRESSURE. PROVIDE FLANGED CONNECTION AND ELECTRIC KIT FOR INSTALLATION IN COPPER PIPING. THE STRAINER OF THE BACKFLOW PREVENTER WILL PROTECT THE PRV AND THE #115E VALVE MAY BE INSTALLED IN EITHER THE HORIZONTAL OR VERTICAL PIPING. | | |
| PRV-B | PRESSURE REDUCING VALVE - WATTS #45-UP WATER PRESSURE REDUCING VALVE FOR 10-35 PSI RANGE. SET PRV FOR 30 PSI OUTLET PRESSURE. | | |
| EXP | EXPANSION TANK - (WH-1) ANTROL, AST-30 ASME EXPANSION TANK WITH 55 PSIG PRECHARGE. (WH-2) ANTROL, AST-30 ASME EXPANSION TANK. (WH-3) ANTROL, AST-30 ASME EXPANSION TANK. (TWIN) ANTROL, AST-1-6 ASME EXPANSION TANK. | | |
| CPI | HOT WATER CIRCULATING PUMP - BELL AND GOSSETT #B6-10 1/2" N.M. LEAD FREE BRONZE CIRCULATING PUMP FOR 2 GPM AT 12 TD, 120/180 VOLT MOTOR. HONEYWELL #K009C STRAP-ON AQUASTAT CONTROLLER. | | |
| TS | TIME SWITCH - INTERMATIC #ET1705CSPST, 7 DAY, ONE CIRCUIT SINGLE-POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 HP @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS X ON/OFF CYCLES, AND BATTERY BACK-UP. COORDINATE WITH DIVISION 16 FOR INSTALLATION AND WIRE LOGIC OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP. | | |
| WH-1 | 100 GALLON WATER HEATER AS MANUFACTURED BY AO SMITH. MODEL #BTH-189 'CYCLONE' 95% EXTRA HIGH EFFICIENCY TANK TYPE WATER HEATER, SEALED COMBUSTION DESIGN. 199.000 BTU/HHR. | | |
| WH-2 | 119 GALLON WATER HEATER AS MANUFACTURED BY RHEEM WATER HEATING & HEATING AND COOLING PRODUCTS. WWH RHEEM COM. MODEL #H1E18-199 'ADVANTAGE PLUS' 95% EFFICIENT SEALED COMBUSTION DESIGN WITH POWER VENT. 199.000 BTU/HHR. A.O. SMITH AND STATE ARE APPROVED EQUALS. | | |
| WH-3 | EEMAX ACCUMIX MODEL MT04120T WATER HEATER RATED AT 3.5 KW, 120V. LOCATED AT HAND SINKS, BAR SINKS, SINGLE LAVATORIES, AND 1-COMPARTMENT SINKS. | | |
| WH-4 | EEMAX SERIES TWO MODEL EX1688T WATER HEATER RATED AT 16.6 KW, 208V. LOCATED AT 2-COMPARTMENT SINKS, FLOOR DEPT (WHERE APPLICABLE). | | |
| WH-5 | 10 GALLON WATER HEATER AS MANUFACTURED BY AO SMITH. MODEL EKC1P0 10 GALLON ELECTRIC WATER HEATER RATED AT 1650 WATTS, 120V-1PH, 98 ENERGY FACTOR. LOCATED AT BACKROOM JANITOR'S SINK. PROVIDE WITH MANUFACTURER'S WALL MOUNTING BRACKET AND INSTALL HIGH ON WALL WHERE APPLICABLE. SEE PLAN. | | |
| WH-6 | AO SMITH MODEL DE30 30 GALLON ELECTRIC WATER HEATER, 208V, 3 PHASE. 3 KW INPUT. PROVIDE ANTROL ASME EXPANSION TANK. | | |
| WH-7 | 60 GALLON WATER HEATER AS MANUFACTURED BY AO SMITH. MODEL #BTH-120 'CYCLONE' 96% EXTRA HIGH EFFICIENCY TANK TYPE WATER HEATER, SEALED COMBUSTION DESIGN. 120,000 BTU/HHR. | | |
| TWH | TANKLESS WATER HEATER - FURNISHED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. NAVIEN PREMIUM CONDENSING TANKLESS GAS WATER HEATER MODEL NPE-260A, 99,900 BTU, 112 GPM, 120 VOLT, 2" PVC COMBUSTION AND EXHAUST VENT. PROVIDE ASME EXPANSION TANK. | | |
| SV | SOLENOID VALVE - NORMALLY OPEN SOLENOID VALVE WITH STAINLESS STEEL BODY. VALVE SHALL BE NSF LISTED FOR USE IN POTABLE WATER SYSTEMS. OPERATING TEMPERATURE OF 32 DEGREE F TO 120 DEGREE F. 120V 1P. PILOT LIGHT SWITCH BY THE E.C. | | |
| EE-1 | EMERGENCY EYE/FACE WASH - DECK MOUNTED, HANDLE ACTIVATED, TWIN PLASTIC SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS MOUNTED ON BRASS SUPPLY ARMS, MINIMUM FLOW RATE OF 3.0 GPM AT 30 PSI, INTEGRAL FLOW CONTROL FITTING, ANSI Z358.1 COMPLIANT. BRADLEY S19-40EFPW OR EQUAL, PROVIDE WITH LEAD FREE MINDING VALVE CAPABLE OF DELIVERING 3 GPM WITH 10 PSI DIFFERENTIAL, ASSE STANDARD 1071 COMPLIANT. POWERS OR EQUAL. | | |
| FOV | FLOW CONTROL VALVE - FLOWDESIGN #1 C55 'AUTOFLOW', SERIES 300 STAINLESS UNION BODY WITH NIKEL PLATED UNION NUT, STAINLESS STEEL PRESSURE COMPENSATING CARTRIDGE, MEETING NSF #1 ANNEX G, NAMEPLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. PROVIDE 0.5 GPM FLOW RATE CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS. | | |

GENERAL DEMOLITION NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
4. REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
5. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
6. SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE PLUMBING COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.
7. INSTALL PERMANENT CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. INSTALL TEMPORARY CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION TO PROTECT THE INTERIOR SURFACES UNTIL NEW PIPING IS INSTALLED.
8. REMOVE PIPE HANGERS, PIPE SUPPORTS AND EQUIPMENT SUPPORTS WHERE PIPING OR EQUIPMENT IS REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
9. VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
10. WHERE SHUTDOWN OF EXISTING ACTIVE PIPING SYSTEMS IS REQUIRED DURING DEMOLITION PHASE OF WORK IN PREPARATION FOR NEW TIE-IN PHASE OF WORK, COORDINATE WITH THE OWNER AND MINIMIZE DOWNTIME. VERIFY EXISTING SYSTEMS, EQUIPMENT, AND COMPONENTS WILL BE PROVIDED WITH BACKUP SERVICE WHERE REQUIRED. NOTIFY OWNER A MINIMUM OF SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

PIPING MARKERS

ALL HOT WATER, RECIRCULATING HOT WATER, COLD WATER, SOFTENED COLD WATER, AND GAS PIPING SHALL BE CLEARLY MARKED WITH IDENTIFYING LABELS STATING DIRECTION OF FLOW AND CONTENTS. THE LABELS SHALL BE APPLIED AT 8 FEET ABOVE THE FLOOR ON VERTICAL PIPING AND EVERY 20 FEET HORIZONTALLY. EXAMPLES OF LABELS ARE AS FOLLOWS:



KEYED NOTES:

1. PERMANENTLY LABEL AT THE CONNECTION POINT.
2. LOCATE PIPING IDENTIFICATION AT VALVE LOCATION, AT POINTS WHERE PIPING ENTERS AND LEAVE A PARTITION, AND AT INTERVALS OF 20 FEET ON STRAIGHT RUNS. IN AREAS WITH OPEN STRUCTURE OVER THE SALES FLOOR, PIPING MARKERS NEED ONLY BE INSTALLED AT MAJOR JUNCTURES AND CHANGES OF DIRECTION.

PIPING APPLICATION SCHEDULE

| SYSTEM (NOTE 1) | LOCATION | DESIGN WORKING PRESSURE (PSI) | MATERIAL | JOINTS | INSULATION APPLICATION | | | NOTES |
|---|--|--|---|--|------------------------|-----------------|-----------------------------------|----------|
| | | | | | USAGE SIZE RANGE | THICKNESS (IN.) | TYPE (NOTES 2,3) | |
| DOMESTIC COLD WATER FILTERED DRINKING WATER | ABOVE GRADE | 125 | TYPE L COPPER "HARD" | SOLDER OR MECHANICAL PRESS CONNECTION | 1-1/4" OR SMALLER | 1/2" | ELASTOMERIC FOAM OR FIBERGLASS | - |
| | | | PEX | PEX MECHANICAL CRIMP | 1-1/2" & GREATER | 1" | ELASTOMERIC FOAM OR FIBERGLASS | 4 |
| | BELOW GRADE | 125 | TYPE K COPPER "SOFT" | SOLDER | LESS THAN 2 1/2" | - | - | - |
| | | | DUCTILE IRON PRESSURE WATER PIPE | MECHANICAL OR PUSH-ON | 3" & GREATER | - | - | 5 |
| DOMESTIC HOT WATER | ABOVE GRADE | 125 | TYPE L COPPER "HARD" | SOLDER OR MECHANICAL PRESS CONNECTION | 1-1/4" OR SMALLER | 1" | ELASTOMERIC FOAM OR FIBERGLASS | - |
| | | | PEX | PEX MECHANICAL CRIMP | 1-1/2" & GREATER | 1" | ELASTOMERIC FOAM OR FIBERGLASS | 4 |
| | GENERAL | 175 | DUCTILE IRON PRESSURE WATER PIPE OR GALVANIZED AS REQUIRED BY NFPA | MECHANICAL OR PUSH-ON | ALL | - | - | 5 |
| FIRE PROTECTION SERVICE | BELOW GRADE | N/A | CAST IRON AND/OR SCH 40 PVC | BELL & SPIGOT, NO HUB, OR SOLVENT | ALL | - | - | 12 |
| | ABOVE GRADE | N/A | CAST IRON, DWV COPPER, AND/OR SCH 40 PVC | BELL & SPIGOT, NO HUB, SOLDER, OR SOLVENT | ALL | 1" | FIBERGLASS | 6, 7, 12 |
| EQUIPMENT DRAINS (GRAVITY & PUMPED CONDENSATE) | ABOVE GRADE | N/A | DWV COPPER | SOLDER | ALL | 1" | FIBERGLASS | 8 |
| | EXPOSED ABOVE GRADE IN FINISHED AREAS | N/A | CHROME PLATED BRASS PIPE | THREADED | ALL | - | - | 9 |
| GREASE SANITARY | BELOW GRADE | N/A | CAST IRON OR SCH 40 PVC | BELL & SPIGOT, NO HUB, OR SOLVENT | ALL | - | - | - |
| NATURAL GAS/GENERATOR EXHAUST | BELOW GRADE GAS OUTSIDE BUILDING | 125 | POLYETHYLENE | ELECTRICAL FUSION | ALL | - | - | - |
| | ABOVE GRADE | 125 | SCH 40 BLACK STEEL | THREADED OR WELDED | SMALLER THAN 2" | - | - | 10, 11 |
| | | | | WELDED | 2 1/2" & GREATER | - | - | 10, 11 |
| REVERSE OSMOSIS BLENDED REVERSE OSMOSIS | RIGID ABOVE GRADE | 125 | SCH 40 CPVC, PEX, PRIOR APPROVED OTHER | SOLVENT, PEX MECHANICAL CRIMP | ALL | - | - | 13 |
| | FLEXIBLE ABOVE GRADE | 125 | BRADED STAINLESS STEEL, PRIOR APPROVED OTHER | THREADED | ALL | - | - | 13 |

NOTES:

1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. SEE SPECIFICATION SECTION 230719 FOR COMPLETE INSULATION AND JACKETING REQUIREMENTS. ALL INSULATION SHALL BE PLENUM RATED WHERE INSTALLED IN A RETURN AIR PLENUM.
3. INSTALL RIGID CALCIUM SILICATE INSERTS AT ALL PIPING HANGERS.
4. PIPING BRANCHES 2" AND SMALLER MAY BE PEX WHERE PERMITTED BY CODE. USE RED AND BLUE PIPING. INSTALL MANIFOLD DOWNSTREAM OF BRANCH ISOLATION VALVES.
5. PIPE SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA STANDARDS. FITTINGS SHALL BE LONG RADIUS, 200 PSI RATED, CEMENT MORTAR LINED.
6. INSULATE RISERS WITHIN 10' OF VENT THROUGH ROOF CONNECTION.
7. PIPING MAY BE PVC WHERE NOT INSTALLED IN A RETURN AIR PLENUM.
8. INSULATION ONLY REQUIRED FOR COLD SERVICE PIPING. EQUIPMENT DRAIN PIPING LESS THAN 5' IN LENGTH NEED NOT BE INSULATED.
9. PIPING SERVING FOOD SERVICE EQUIPMENT AND EXPOSED TO PUBLIC OR USERS.
10. ALL NATURAL GAS PIPING LOCATED IN A CEILING RETURN AIR PLENUM SHALL BE WELDED.
11. ALL CONCEALED NATURAL GAS PIPING TO BE WELDED.
12. PIPING MAY BE PEX WHERE PERMITTED BY CODE.
13. ALTERNATE MATERIALS WILL BE CONSIDERED. SUBMIT ALTERNATES TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

TOTAL CONNECTED NATURAL GAS LOAD

| KITCHEN EQUIPMENT | | | | |
|---|----------|------------------------|------------|-----------|
| EQUIPMENT DESIGNATION | QUANTITY | DESCRIPTION | CFH (EACH) | TOTAL CFH |
| 18 | 1 | CHARBROILER | 87 | 87 |
| 20 | 1 | PIZZA OVEN | 225 | 225 |
| 23 | 1 | FRYER | 150 | 150 |
| 29 | 1 | ROTISSERIE | 175 | 175 |
| 32 | 1 | 6 BURNER RANGE W/ OVEN | 240 | 240 |
| 34 | 1 | MONGOLIAN BBQ | 123 | 123 |
| ETR | 1 | WOK | 440 | 440 |
| ETR | 1 | CONVECTION OVEN | 120 | 120 |
| ETR | 1 | BAKERY OVEN | 240 | 240 |
| TOTAL = | | | 1800 | |
| MECHANICAL EQUIPMENT | | | | |
| EQUIPMENT DESIGNATION | QUANTITY | DESCRIPTION | CFH (EACH) | TOTAL CFH |
| RTU-1 | 1 | ROOFTOP UNIT | 1000 | 1000 |
| RTU-2 | 1 | ROOFTOP UNIT | 1000 | 1000 |
| RTU-3 | 1 | ROOFTOP UNIT (ETR) | 180 | 180 |
| RTU-4 | 1 | ROOFTOP UNIT (ETR) | 240 | 240 |
| RTU-5 | 1 | ROOFTOP UNIT (ETR) | 240 | 240 |
| RTU-6 | 1 | ROOFTOP UNIT | 120 | 120 |
| RTU-7 | 1 | ROOFTOP UNIT (ETR) | 235 | 235 |
| RTU-8 | 1 | ROOFTOP UNIT (ETR) | 200 | 200 |
| RTU-9 | 1 | ROOFTOP UNIT | 180 | 180 |
| RTU-10 | 1 | ROOFTOP UNIT | 120 | 120 |
| RTU-11 | 1 | ROOFTOP UNIT | 180 | 180 |
| RTU-12 | 1 | ROOFTOP UNIT | 180 | 180 |
| UH-1 | 1 | UNIT HEATER (ETR) | 250 | 250 |
| UH-2 | 1 | UNIT HEATER (ETR) | 125 | 125 |
| UH-3 | 1 | UNIT HEATER (ETR) | 125 | 125 |
| MAU-1 | 1 | MAKE UP AIR UNIT | 356 | 356 |
| MAU-2 | 1 | MAKE UP AIR UNIT | 197 | 197 |
| WH-1 | 2 | WATER HEATER | 199 | 398 |
| WH | 1 | WATER HEATER (ETR) | 100 | 894 |
| GEN | 1 | GENERATOR | 894 | |
| TOTAL = | | | 6320 | |
| NATURAL GAS SYSTEM OPERATING PRESSURE: | | | 2 PSI | |
| NATURAL GAS SYSTEM SIZED WITH TOTAL DEVELOPED LENGTH FROM | | | | |
| GAS METER TO MOST REMOTE PIECE OF EQUIPMENT: | | | 730 FEET | |
| SYSTEM DESIGN PRESSURE DROP: | | | 1 PSI | |
| BUILDING TOTAL CONNECTED LOAD = | | | 8120 | |

GAS PRESSURE REGULATOR SCHEDULE FOR 2 PSI SYSTEMS

| MARK | MANUFACTURER / MODEL# | VALVE TYPE | VALVE BODY SIZE (INCHES) | MAX. FLOW RATE CFH | INLET PRESSURE PSI | OUTLET PRESSURE INCHES WATER COLUMN | SERVICE | NOTES |
|--|--------------------------|---------------|-----------------------------|-----------------------|-----------------------|--|--------------|-------------------------|
| GPR-1 | PIETRO-FIORENTINI 31051 | C | 1/2" | 352 | 1 | 7" | ROOFTOP UNIT | A, B, D, E, F, G, H & I |
| NOTES: | | | | | | | | |
| A. C = SELF CONTAINED "DIRECT ACTING" DIAPHRAGM TYPE WITH INTERNAL VENT LIMITER | | | | | | | | |
| B. DROOP = 1" WATER COLUMN MAXIMUM | | | | | | | | |
| C. DROOP = 2" WATER COLUMN MAXIMUM | | | | | | | | |
| D. 65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25# | | | | | | | | |
| E. MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS | | | | | | | | |
| F. LISTED TO MEET ANSI Z21.80 / CSA 6.22 WITH CSA LISTING STAMP ON REGULATOR BODY | | | | | | | | |
| G. GAS PRESSURE REGULATOR INLET PRESSURE = OPERATING PRESSURE - DESIGN FRICTION LOSS | | | | | | | | |
| H. 2PSI MAXIMUM INLET PRESSURE & 1 PSI MINIMUM INLET PRESSURE | | | | | | | | |
| I. PROVIDE EXTERNAL VENT LIMITER (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INSTAL PER SPECIFICATIONS. INSTALL OUTDOORS PER SPECIFICATIONS. | | | | | | | | |

PLUMBING ROUGH-IN SCHEDULE

| FIXTURE TYPE | WASTE | VENT | CW | HW |
|--------------|--------|--------|------|------|
| WC AND HWC | 4" | 2" | 1" | -- |
| UR | 2" | 1-1/2" | 3/4" | -- |
| EWIC | 1-1/2" | 1-1/4" | 1/2" | -- |
| JS | 3" | 1-1/2" | 3/4" | 3/4" |
| LAVS | 2" | 1-1/2" | 1/2" | 1/2" |
| S-1A,B,C | 2" | 1-1/2" | 1/2" | 1/2" |
| S-2C | 2" | 1-1/2" | 1/2" | 1/2" |
| S-2A | 2" | -- | 1/2" | 1/2" |
| S-2B | 2" | -- | 3/4" | 3/4" |
| S-3S | 2" | -- | 3/4" | 3/4" |
| S-4S | 2" | 2" | 3/4" | 3/4" |
| S-5 | 2" | 2" | 3/4" | 3/4" |
| S-6 | 2" | 1-1/2" | 3/4" | 3/4" |
| HS | 1-1/2" | 1-1/2" | 1/2" | 1/2" |

NOTES:
UNDERFLOOR SANITARY PIPING SHALL NOT BE SMALLER THAN 2"

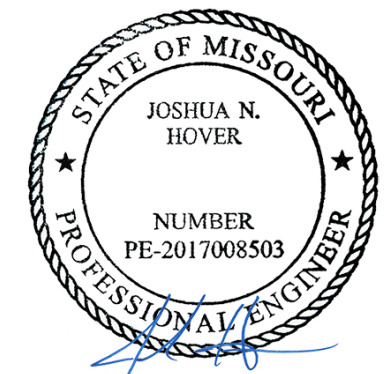
REVISION

DATE BY

HENDERSON
ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM

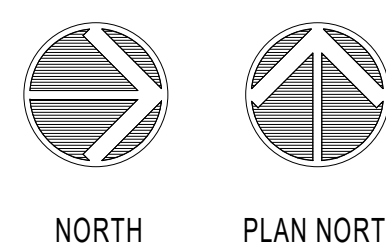
1950003081
MO. CORPORATE NO. E-5580
EXPIRES 12/31/2020

PROFESSIONAL SEAL



Oct 23 2020
JOSHUA N. HOVER
LICENSE # PE-2017008503

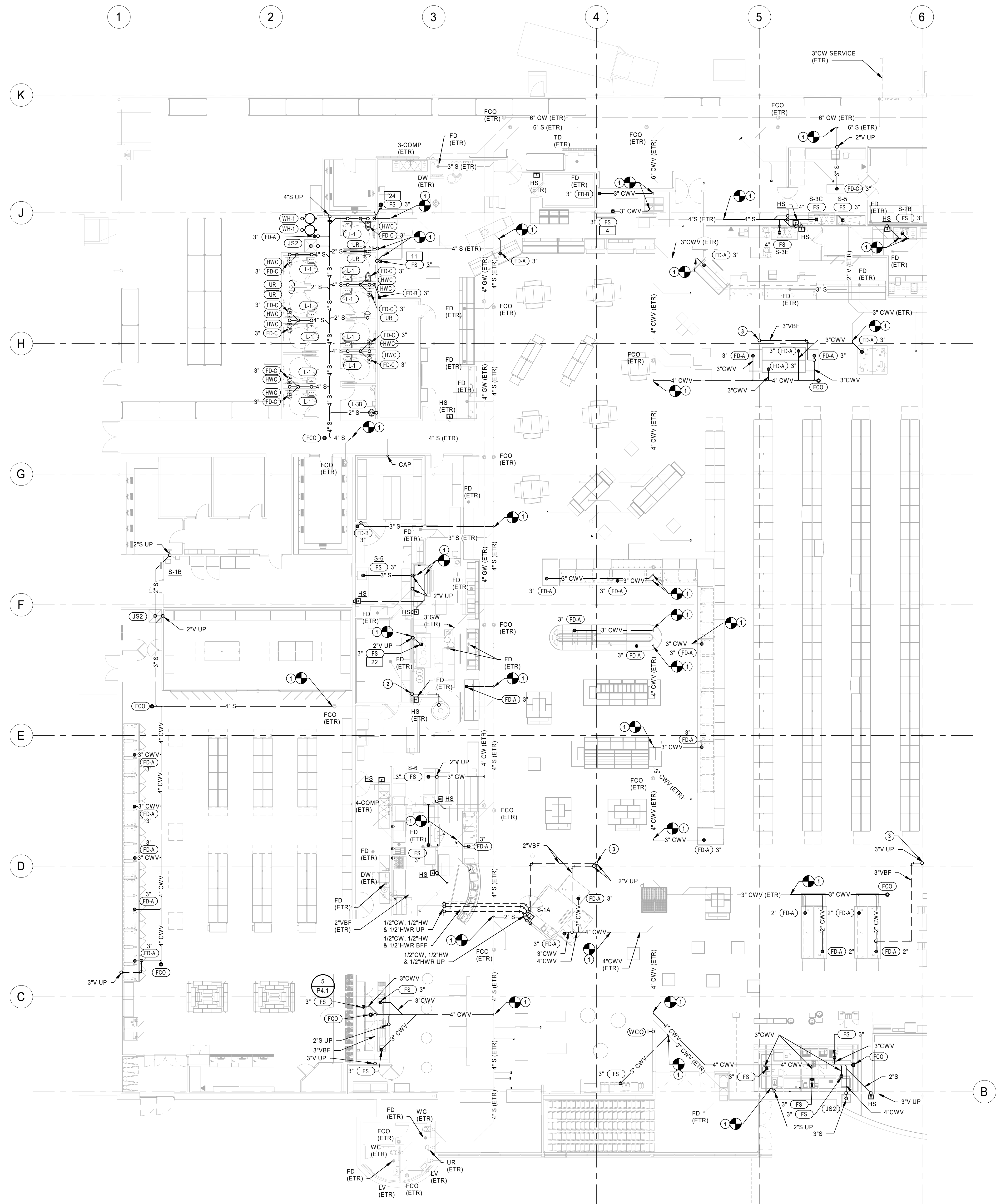
LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD
HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50386
TEL: (515) 267-2600
FAX: (515) 267-2636
Hy-Vee
EMPLOYEE OWNED



PLUMBING
SCHEDULES

| | |
|-----------------------|-------------------------|
| PROJECT MANAGER SL | CHECKED BY: HEI |
| DRAWN BY: HEI | DATE: 10/19/2020 |
| SCALE: AS NOTED | JOB NUMBER: 62830547 |
| SHEET: | |

P0.1



- 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 OR 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 ELECTRICAL 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 1/2" PIPE UNDERFLOOR IN 4" CONDUIT.
 3. ROUTE VENT PIPING TIGHT TO COLUMN.

| REVISION | | DATE BY |
|----------|--|---------|
| | | |

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-5560
EXPIRES 12/31/2020

Oct 23 2020
JOSHUA N. HOYER
LICENSE # PE-2017008503

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

Hy-Vee
EMPLOYEE OWNED

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50319
TEL 515.281.5333 FAX (515) 267-4335

NORTH

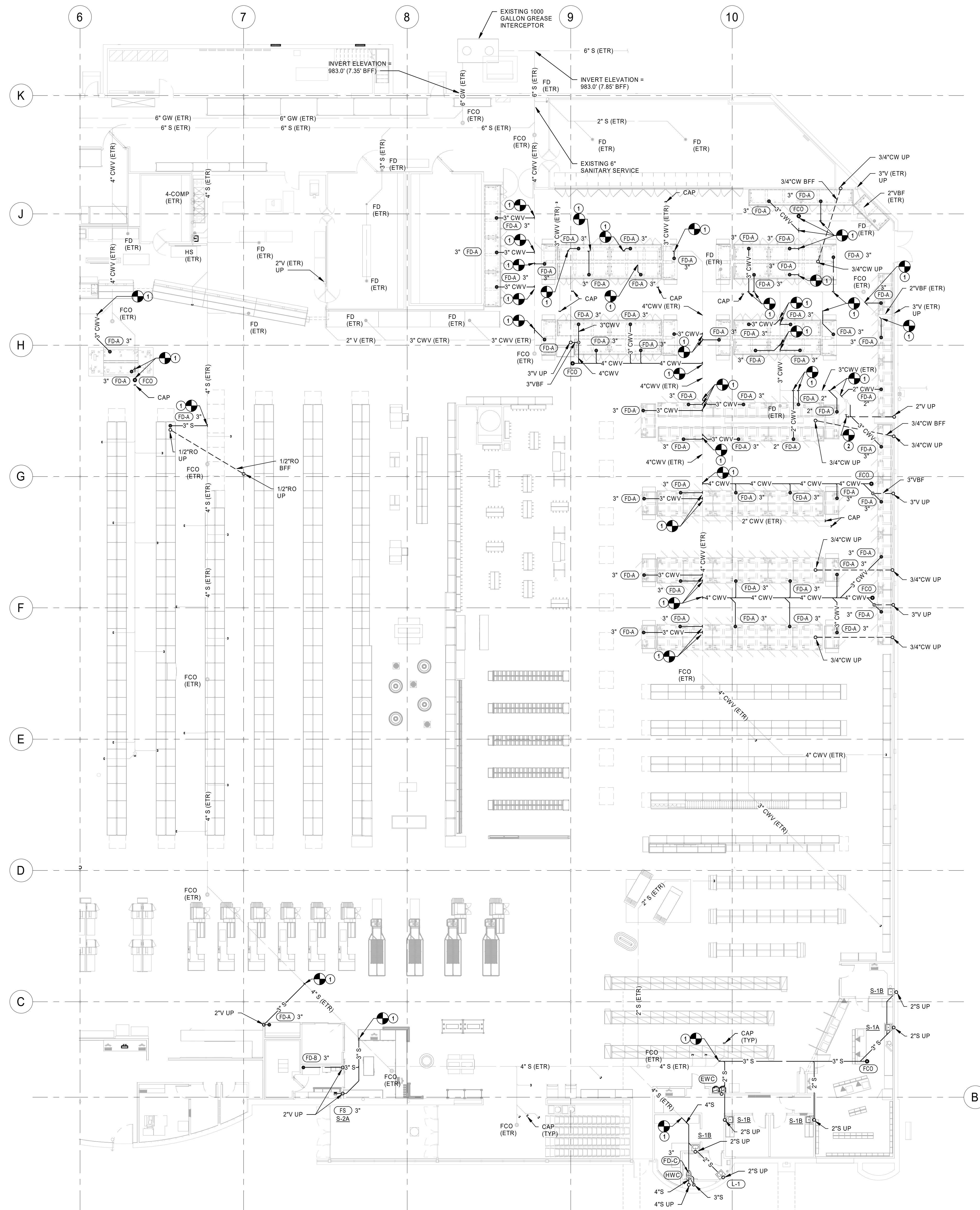
PLAN NORTH

UNDERFLOOR PLUMBING PLAN - A

| PROJECT MANAGER | CHECKED BY |
|-----------------|------------|
| SL | HEI |
| DRAWN BY: | DATE |
| HEI | 10/19/2020 |
| SCALE | JOB NUMBER |
| AS NOTED | 62830547 |

SHEET:

P1.0A



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 OR 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 ELECTRICAL CONTRACTORS.

PLUMBING PLAN NOTES

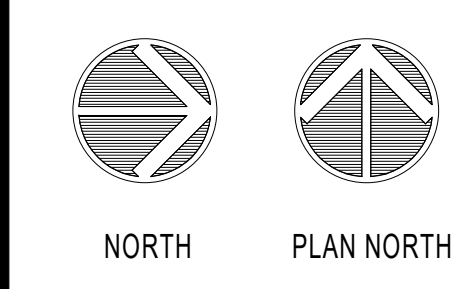
1. CONNECT NEW SANITARY/GREASE WASTE PIPING INTO EXISTING PIPING. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT PRIOR TO START OF WORK.
2. CONNECT NEW VENT PIPING TO EXISTING VENT PIPING AS FIELD CONDITIONS REQUIRE. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO START OF WORK.

REVISION DATE BY

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-5580
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER
PE-2017008503
Oct 23 2020
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LICENSE # PE-2017008503

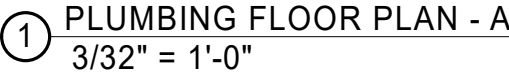
LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD
HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50386
TEL 515.267.2800
FAX 515.267.4335
Hy-Vee
EMPLOYEE OWNED



UNDERFLOOR
PLUMBING PLAN -
B

PROJECT MANAGER
SL
CHECKED BY
HEI
DRAWN BY
HEI
SCALE
AS NOTED
DATE
10/19/2020
JOB NUMBER
62830547
SHEET

P1.0B



- ## PLUMBING PLAN NOTES
1. T/CW DOWN IN WALL TO STARBUCKS KIOSK. ROUTE IN WALL TO EXIST FLOOR AND CONNECT PER STARBUCKS STANDARDS.
 2. ROUTE 3/4" FWD DOWN IN WALL AND CONNECT TO OVEN. PROCEED EXISTING WALL TO EXIST FLOOR AND TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. PROVIDE ESCUTCHEON AT WALL.
 3. CONNECT NEW DOMESTIC WATER PIPING TO EXISTING 1/2" FWD DOWN IN WALL TO LOCATION AND SIZE PER PART TO START OF WORK.
 4. 1/2" SCW DOWN, CONNECT 1/2" CW TO HUMIDOR PER MANUFACTURER'S RECOMMENDATIONS.
 5. ROUTE 1/2" FWD TO BAKERY WATER METER AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
 6. CONNECT NEW BAKERY OVEN TO EXISTING WATER AND GAS. PER THE FIELD, PERMANENTLY WELD PER MANUFACTURER'S RECOMMENDATIONS.
 7. CONNECT NEW PROOFER TO EXISTING WATER PIPING AS USUALLY NOTED ON DRAWING AND PER MANUFACTURER'S RECOMMENDATIONS.
 8. ROUTE C/PW C/PW ON TOP OF CASE. INSTALL AND TEST TO 150 PSI. TEST H2O IN CENTER OF CASE ARRANGEMENT.

P2.0A



- ## 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.

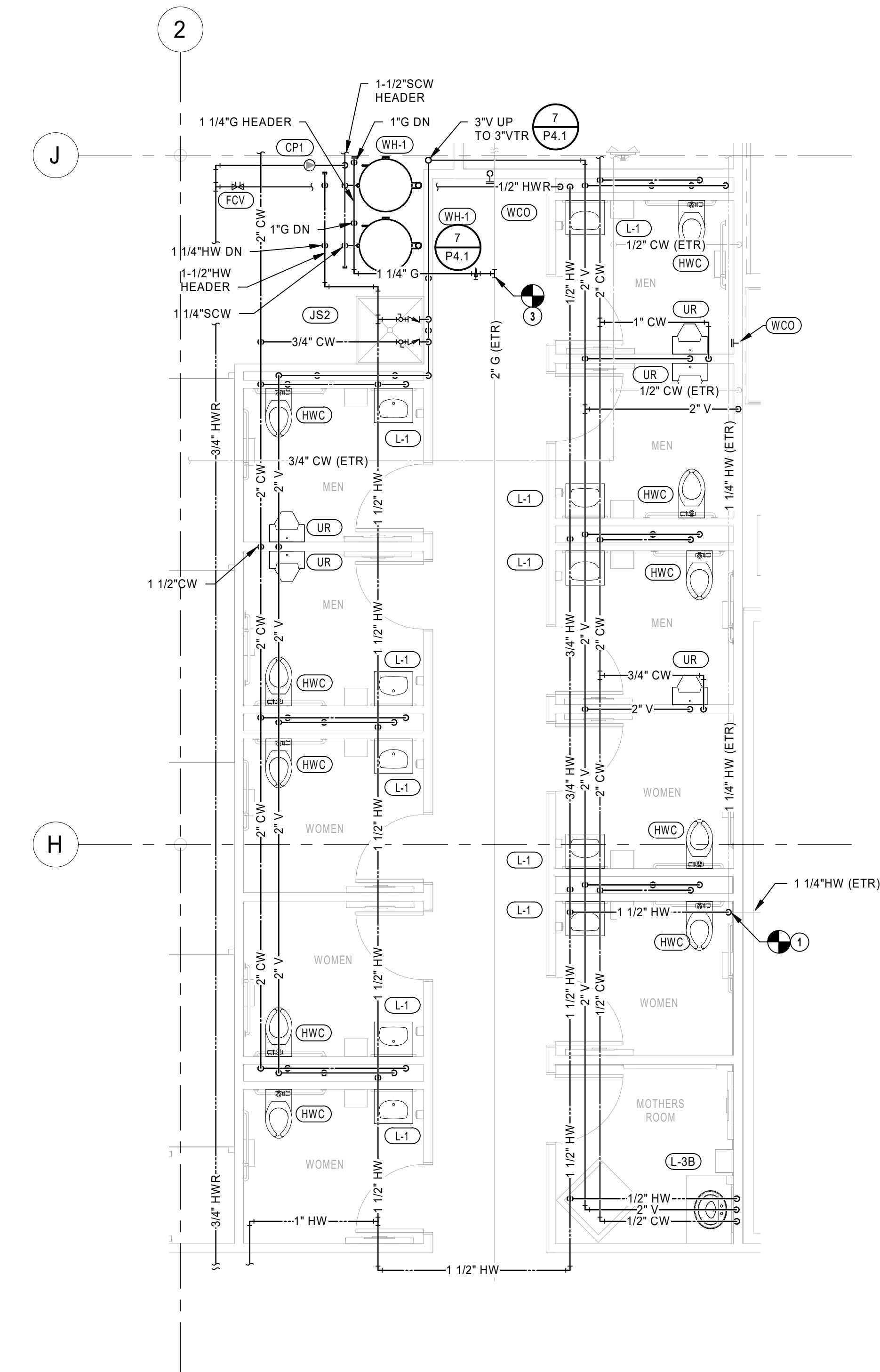
P2.0B

PLUMBING GENERAL NOTES

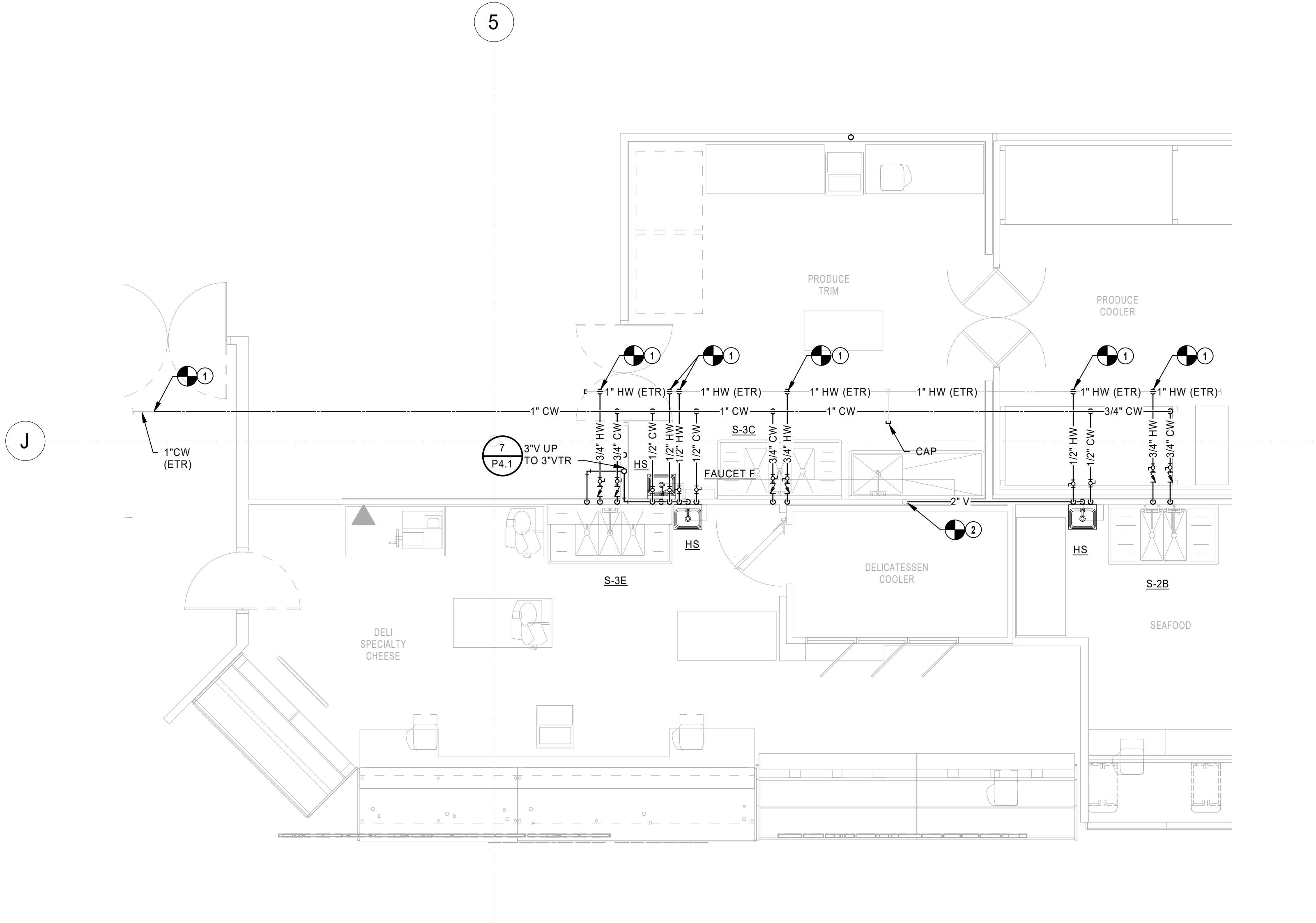
1. AVOID ROUTING IN EXTERIOR WALLS WHERE POSSIBLE. ALL PIPING TO BE ON THE WARM SIDE OF THE WALL INSULATION TO PROTECT AGAINST FREEZING.
2. INSTALL ISOLATION VALVES IN ALL FIXTURE BRANCHES AND UNDERFLOOR BRANCH PIPING. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION.
3. VERIFY LOCATION OF ALL EQUIPMENT REQUIRING PLUMBING (APPLIANCES, PLUMBING FIXTURES, HVAC, ETC.) PRIOR TO ROUGHING IN ANY PIPING.
4. PROVIDE BACKFLOW PREVENTERS THROUGHOUT STORE ONLY WHERE REQUIRED BY LOCAL AND STATE CODES. SEE BACKFLOW PREVENTER SPECIFICATIONS ON SHEET P0.0 AND "CROSS CONNECTION & BACKFLOW PREVENTER SCHEDULE" ON SHEET P4.0.
5. INSTALL ISOLATION VALVES ON THE INLET AND OUTLET ON ALL POINT-OF-USE WATER FILTERS.
6. COORDINATE PIPE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
7. ALL BACKFLOW PREVENTERS INSTALLED IN FOOD PREPARATION AREA MUST HAVE FABRICATED, CLEANABLE, STAINLESS STEEL COVERS.
8. ALL INDIRECT DRAIN LINES MUST BE INSTALLED +/- 6" A.F.F. AND NOT SUPPORTED FROM THE FLOOR.

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 TO EXISTING VENT PIPING AS FIELD CONDITIONS REQUIRE. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO START OF WORK.
3. CONNECT NEW GAS PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.



ENLARGED PLUMBING FLOOR PLANS -
RESTROOMS
1/4" = 1'-0"



ENLARGED PLUMBING FLOOR PLANS -
DELI
1/4" = 1'-0"

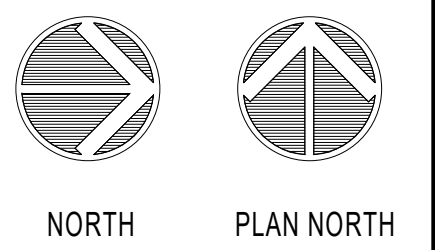
REVISION

DATE BY

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-5580
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER
PE-2017008503
Oct 23 2020
JOSHUA N. HOVER
LICENSE # PE-2017008503

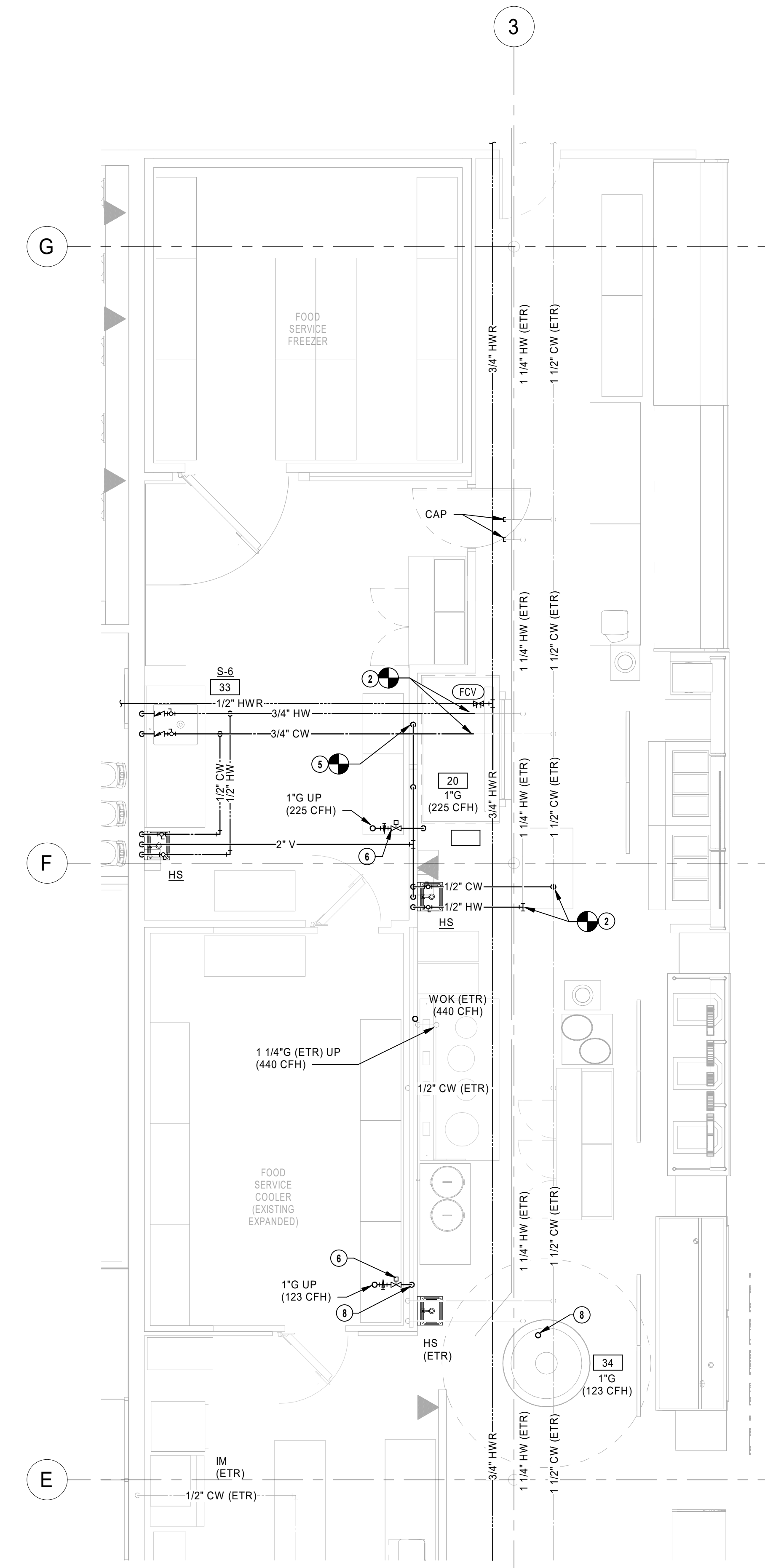
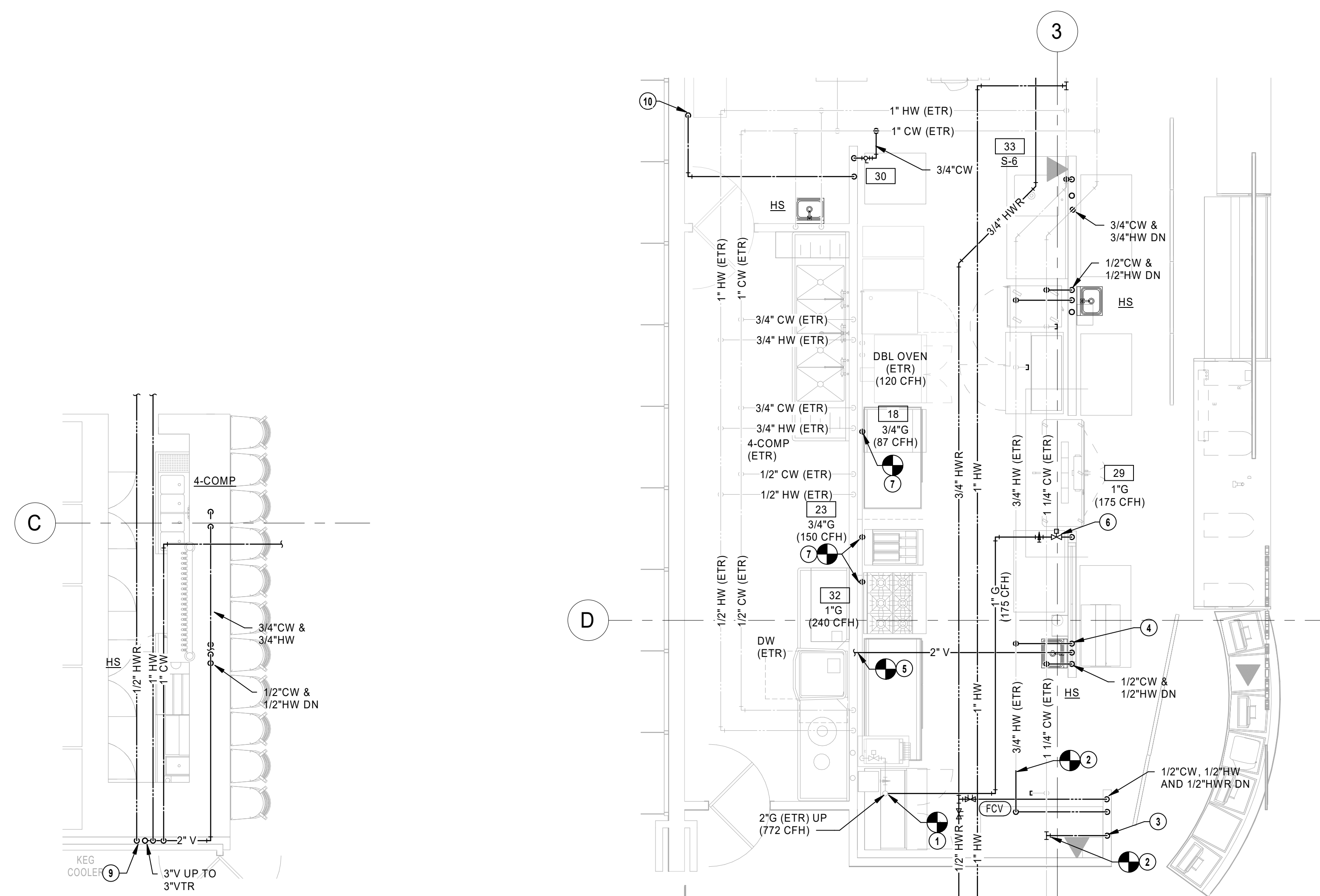
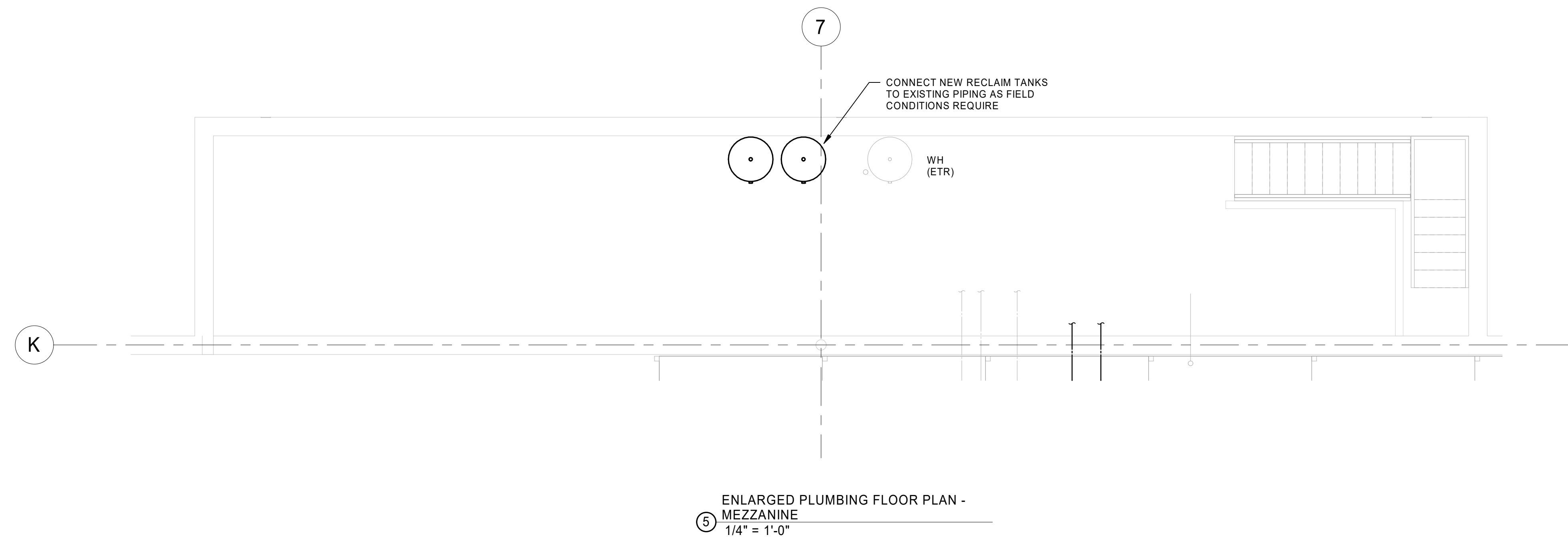
LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD
HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50386
TEL 515.281.9383 FAX 515.267-2600
HY-VEE
EMPLOYEE OWNED



PLUMBING
ENLARGED PLANS

PROJECT MANAGER
SL
CHECKED BY
HEI
DRAWN BY:
HEI
DATE
10/19/2020
SCALE
AS NOTED
JOB NUMBER
62830547
SHEET:

P2.5



- ### PLUMBING GENERAL NOTES

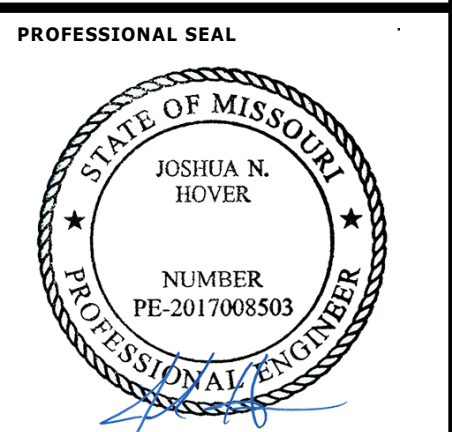
1. AVOID ROUTING IN EXTERIOR WALLS WHERE POSSIBLE. ALL PIPING TO BE ON THE WARM SIDE OF THE WALL INSULATION TO PROTECT AGAINST FREEZING.
2. INSTALL ISOLATION VALVES IN ALL FUTURE BRANCHES AND UNDERFLOOR BRANCH PIPING. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION.
3. VERIFY LOCATION OF ALL EQUIPMENT REQUIRING PIPING (APPLIANCES, PLUMBING FIXTURES, HVAC, ETC.) PRIOR TO ROUGHING IN ANY PIPING.
4. PROVIDE BACKFLOW PREVENTERS THROUGHOUT STORE ONLY WHERE REQUIRED BY LOCAL AND STATE CODES. SEE BACKFLOW PREVENTER SPECIFICATIONS ON SHEET P10.0 AND "CROSS CONNECTION & BACKFLOW PREVENTER SCHEDULE" ON SHEET P4.0.
5. INSTALL ISOLATION VALVES ON THE INLET AND OUTLET ON ALL POINT OF USE WATER FILTERS.
6. COORDINATE PIPE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
7. ALL BACKFLOW PREVENTERS INSTALLED IN FOOD PREPARATION AREAS MUST HAVE FABRICATED, CLEANABLE, STAINLESS STEEL COVERS.
8. ALL INDIRECT DRAIN LINES MUST BE INSTALLED +/- 6" A.F.F. AND NOT SUPPORTED FROM THE FLOOR.

- PLUMBING PLAN NOTES**

1. CONNECT NEW GAS PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
2. CONNECT NEW DOMESTIC WATER PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
3. ROUTE 1/2" CW AND 1/2" HWH DOWN WALL TO BELOW SLAB. RE: P1.0 FOR CONTINUATION.
4. 1/2" CW, 1/2" HWH AND 1-1/2" DOWN IN WALL SECTION BESIDE WINDOW.
5. CONNECT NEW VENT PIPING TO EXISTING VENT PIPING AS FIELD CONDITIONS REQUIRE. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
6. INSTALL MECHANICAL GAS VALVE FURNISHED BY IOWA FIRE EQUIPMENT COMPANY IN SERVICEABLE LOCATION.
7. PROVIDE THE NEW GAS PIPING TO MEET ALL CODE REQUIREMENTS WITH IOWA FIRE EQUIPMENT COMPANY.
8. CONNECT NEW GAS COOKING EQUIPMENT TO EXISTING GAS HEADER AS FIELD CONDITIONS REQUIRE. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
9. ROUTE 1" G PIPE UNDER FLOOR IN 4" CONDUIT.
10. 1" CW, 1" HWH AND 1/2" HWH DOWN IN WALL. ROUTE IN FLOOR UNDER EACH FLOOR JOINT TO SERVICE EQUIPMENT. ROUTE 1/2" HWH TO END OF HOT WATER PIPING AND CONNECT TO HOT WATER PIPING TO COMPLETE HOT WATER FLOOR LOOP.
11. ROUTE 3/4" FW DOWN TO BAG-IN-BOX SYSTEM AND PROVIDE STAINLESS STEEL BFP-2 AS SCHEDULED ON P1.0. 1/2" CW, 1/2" HWH AND 1/2" HWH DOWN IN CONDUIT WHERE INDICATED ON PLANS.

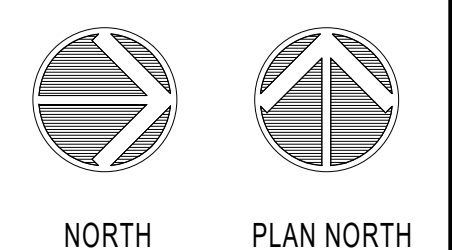
| | |
|----------|------------|
| REVISION | DATE BY |
|----------|------------|

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 12/31/2020



Oct 23 2020
JOSHUA N. HOVER
LICENSE # PE-2017008503

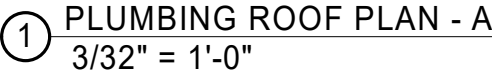
LOCATION
LEE'S SUMMIT, MO #2
3310 SW WARD RD
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
EMPLOYEE OWNED



PLUMBING ENLARGED PLANS

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

P2.6



- 1 CONNECT NEW ROOFTOP UNIT TO EXISTING GAS PIPING AS FIELD CONDITIONS REQUIRE.
- 2 CONNECT NEW MAKE-UP AIR UNIT TO EXISTING GAS PIPING AS FIELD CONDITIONS REQUIRE.
- 3 CONNECT NEW GAS PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.

HENDERSON
ENGINEERS

8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66241
TEL 913.742.5000 FAX 913.742.5001

WWW.HENDERSONENGINEERS.COM

1950003081
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

PROFESSIONAL SEAL

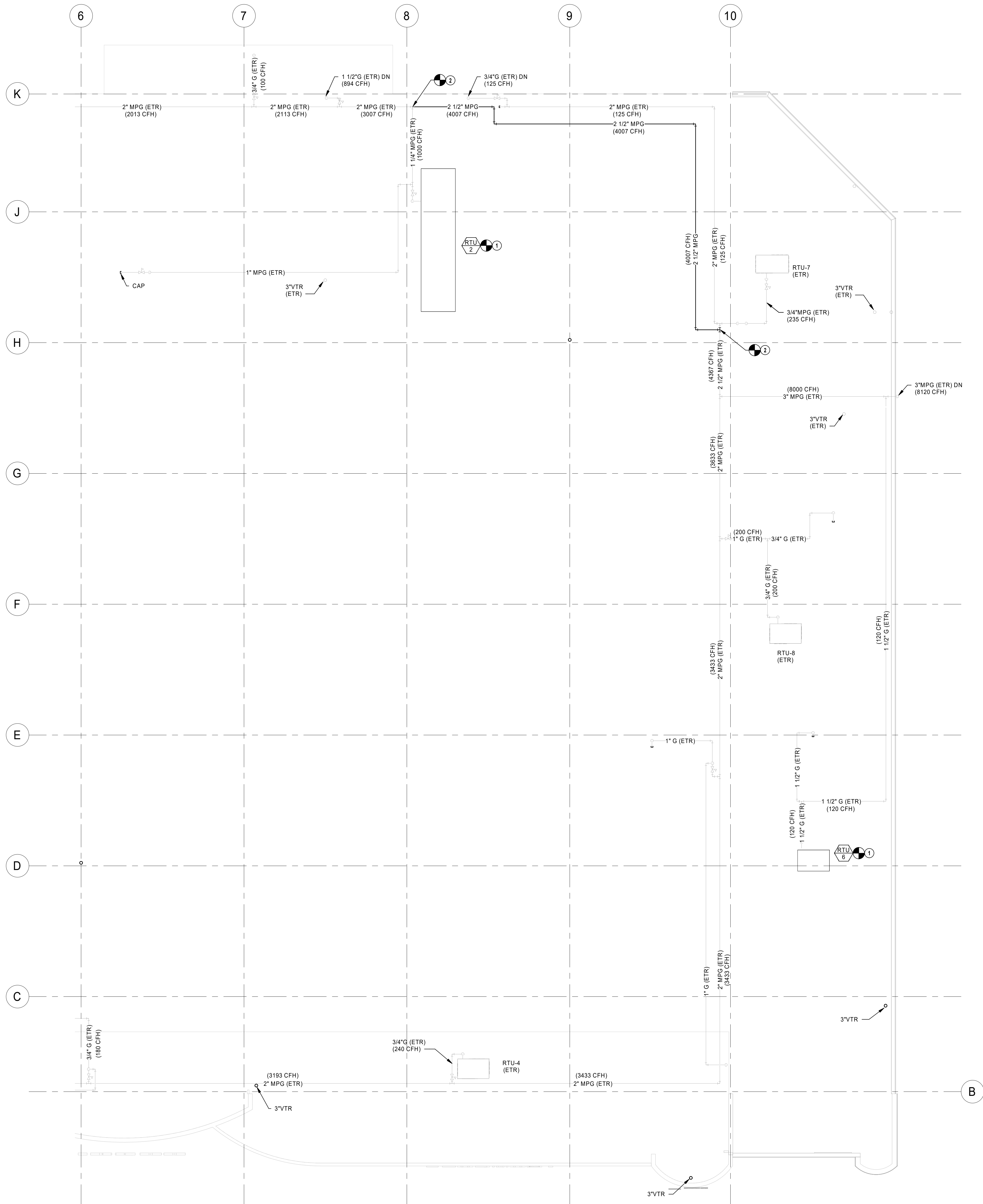
STATE OF MISSOURI
JOSHUA N. HOVES
NUMBER
PE-2017008503

PROFESSIONAL ENGINEER

Oct 23 2020
JOSHUA N. HOVES
LICENSE # PE-2017008503

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

P3.0A



- **PLUMBING PLAN NOTES**
- 1 CONNECT NEW ROOFTOP UNIT TO EXISTING GAS PIPING AS FIELD CONDITIONS REQUIRE.
 - 2 CONNECT NEW GAS PIPING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.

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

| REVISION | DATE BY |
|----------|---------|
| | |

HENDERSON ENGINEERS
8345 LENEKA DRIVE, SUITE 300
LENEKA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

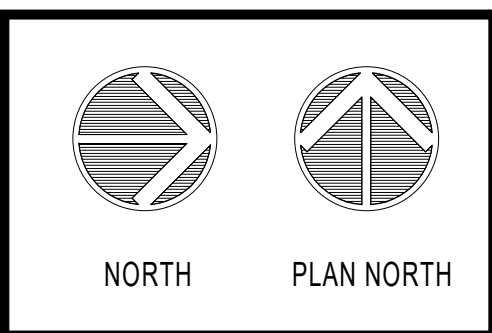
PROFESSIONAL SEAL

Oct 23 2020
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 50386
TEL (515) 267-2800 FAX (515) 267-4335

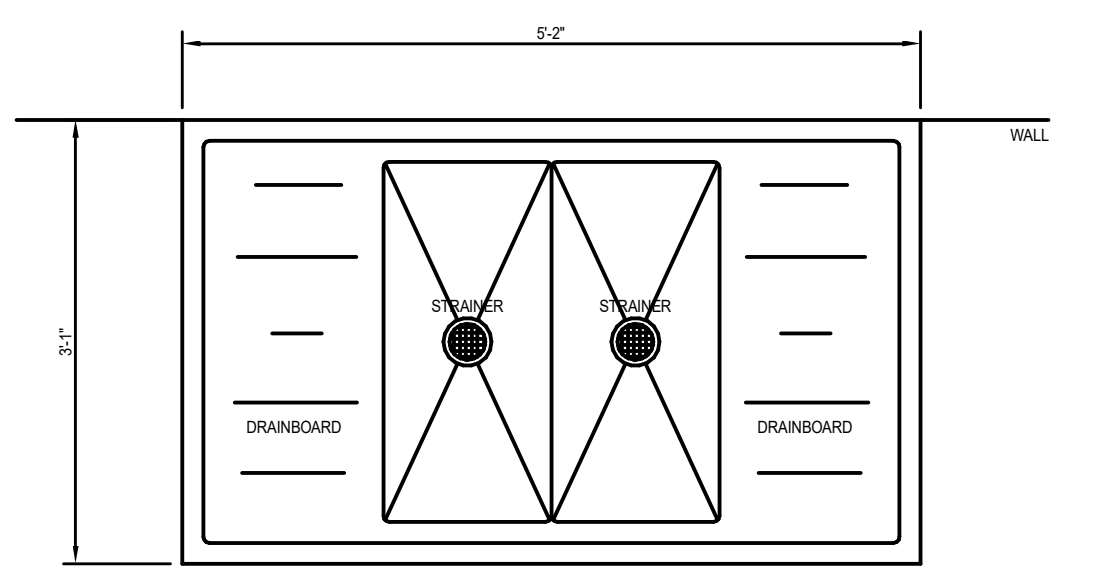
EMPLOYEE OWNED



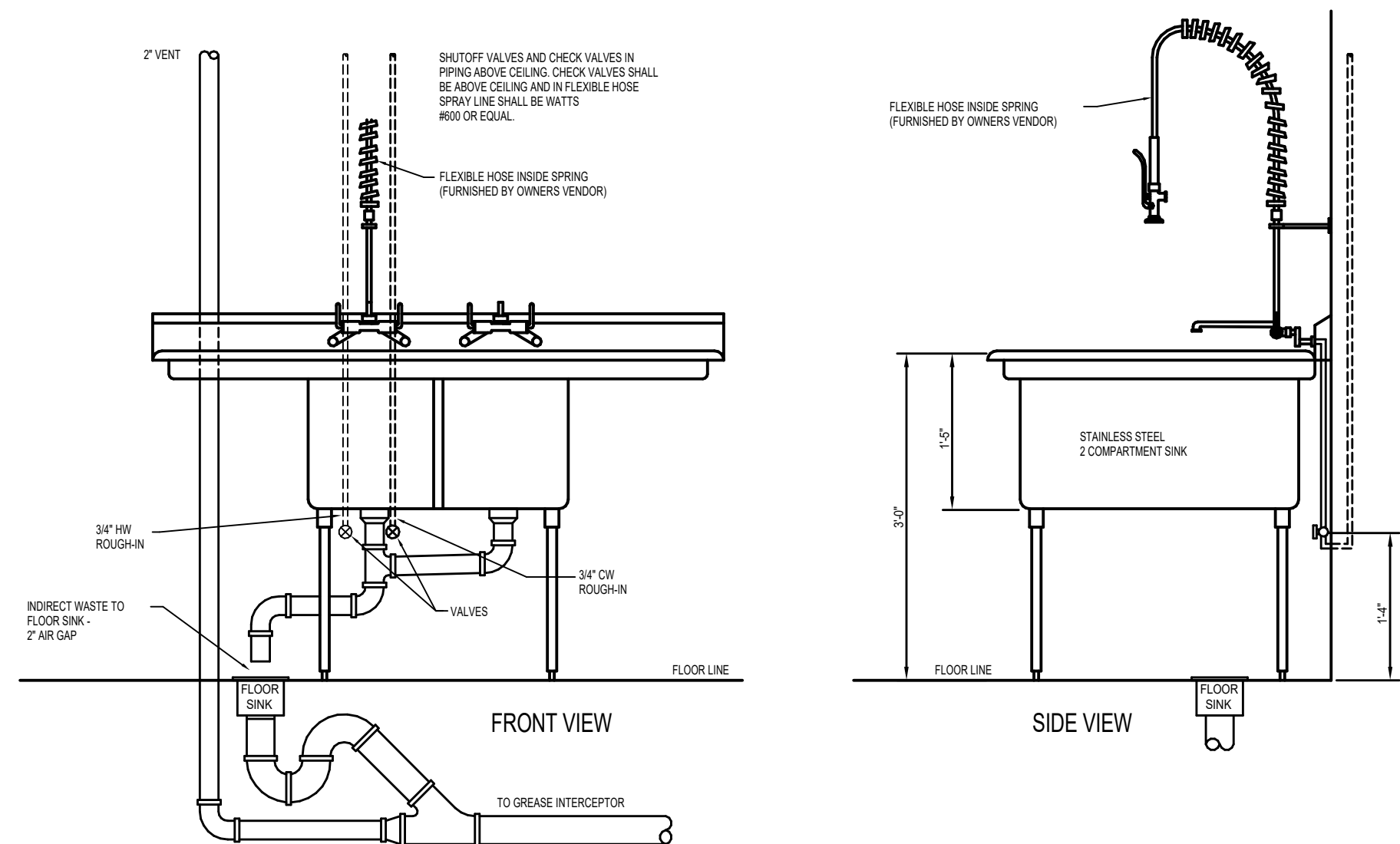
PLUMBING ROOF
PLAN - B

| | |
|-----------------------|------------------------|
| PROJECT MANAGER SL | CHECKED BY HEI |
| DRAWN BY: HEI | DATE 10/19/2020 |
| SCALE AS NOTED | JOB NUMBER 62830547 |
| SHEET: | |

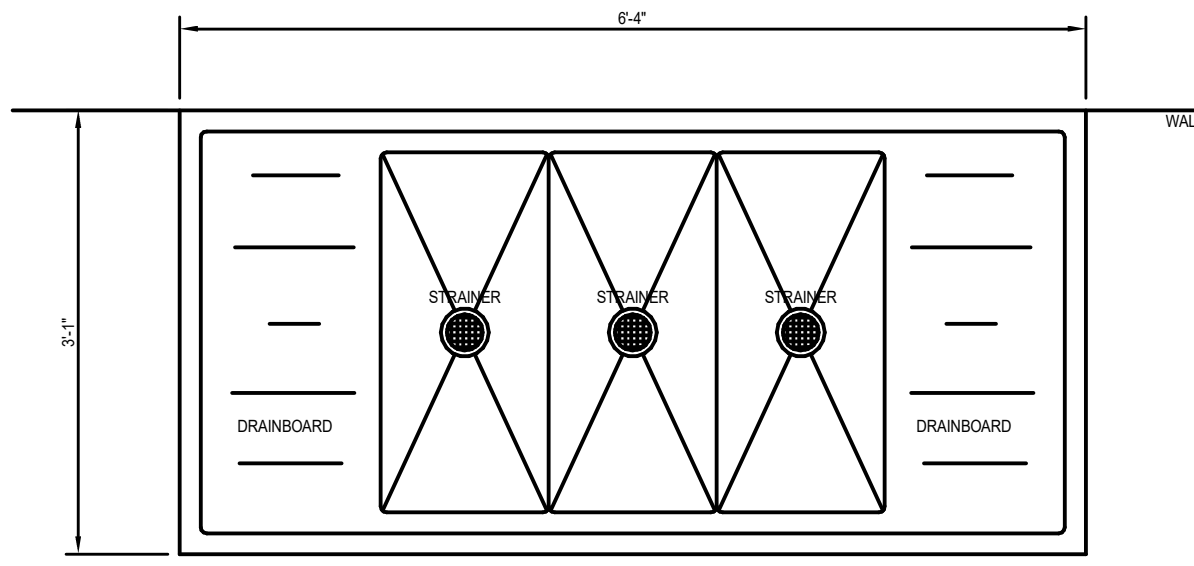
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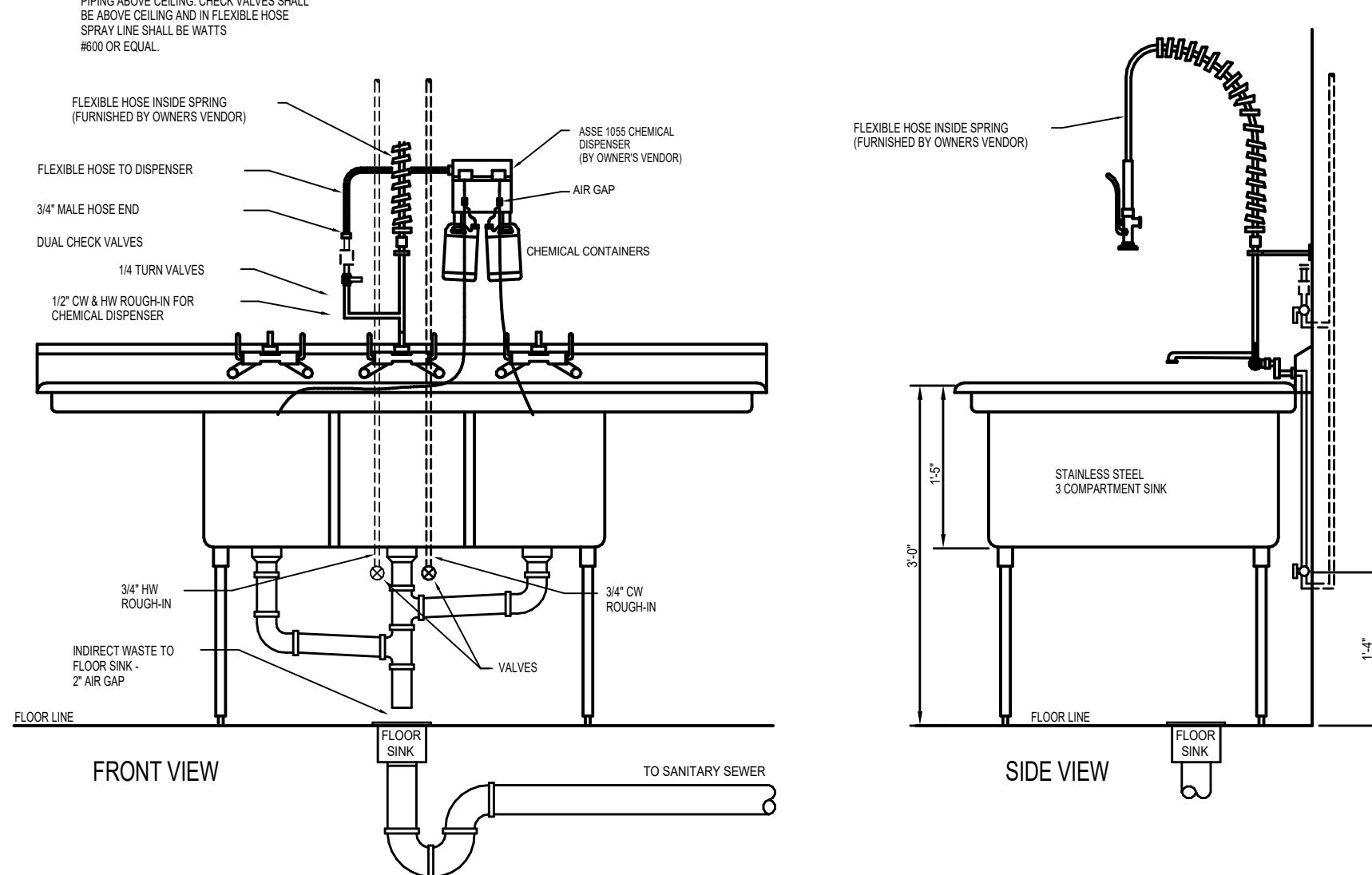
TOP VIEW



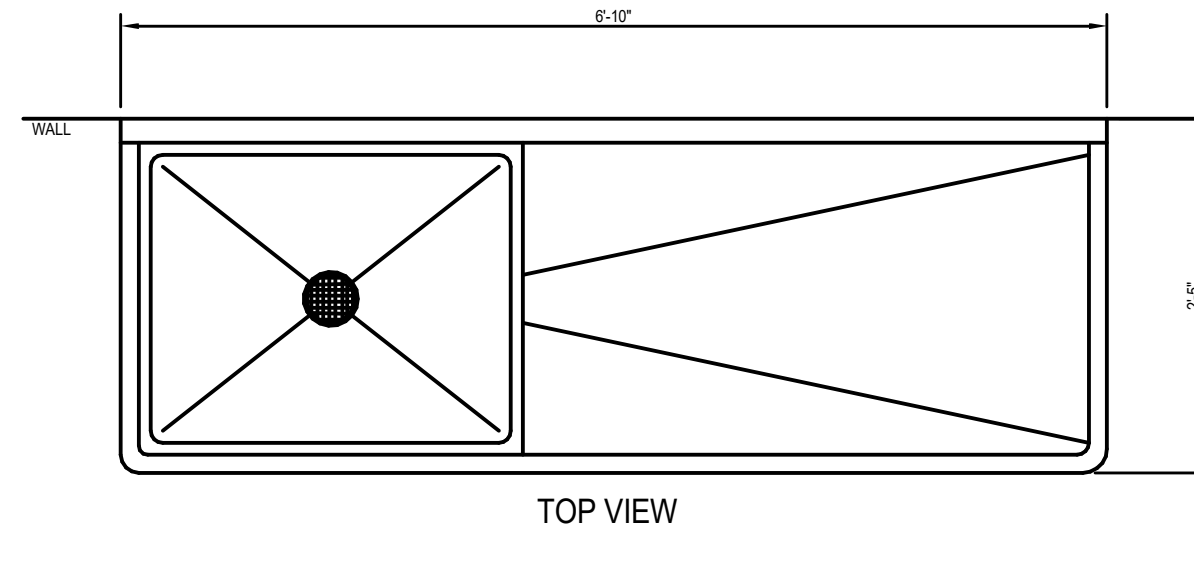
SEAFOOD / SERVICE MEAT SINK - S-2B
SCALE: 3/4" = 1'-0"



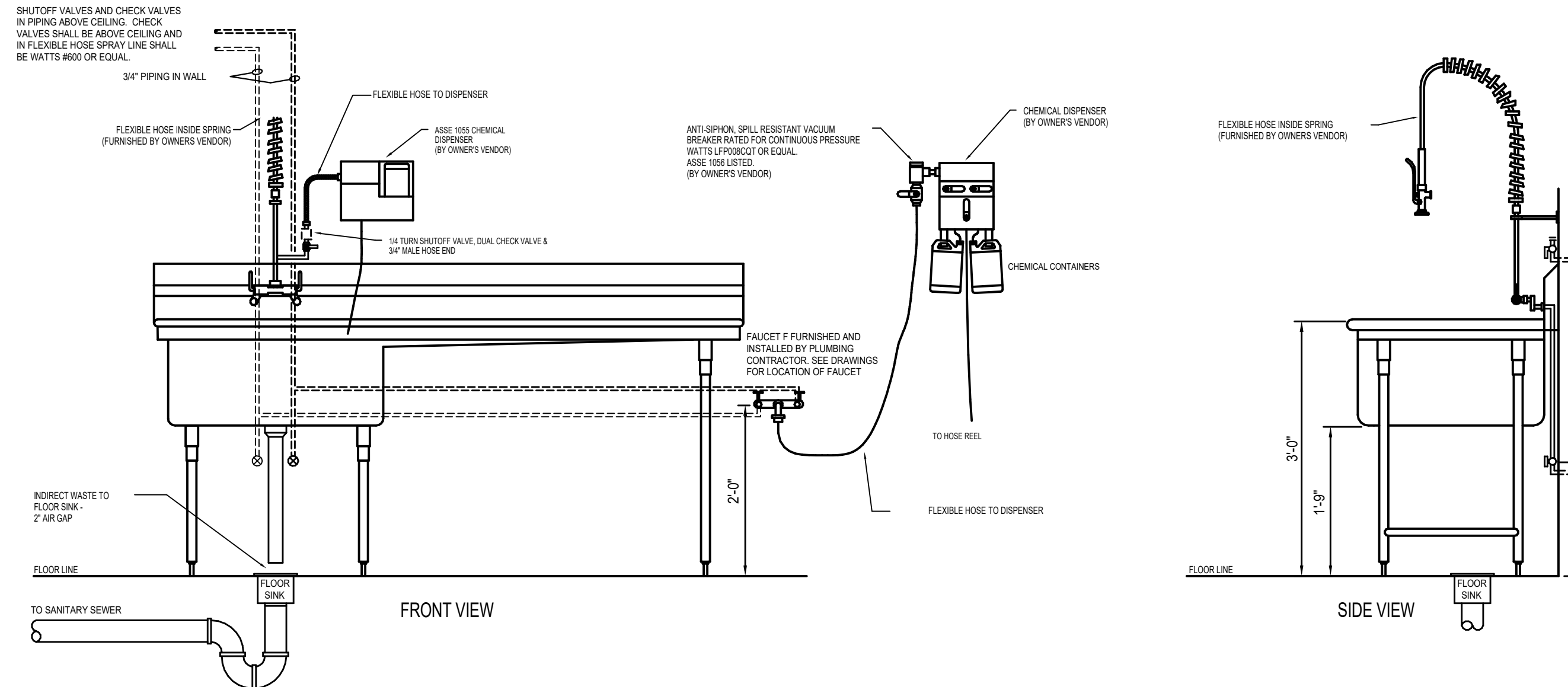
TOP VIEW



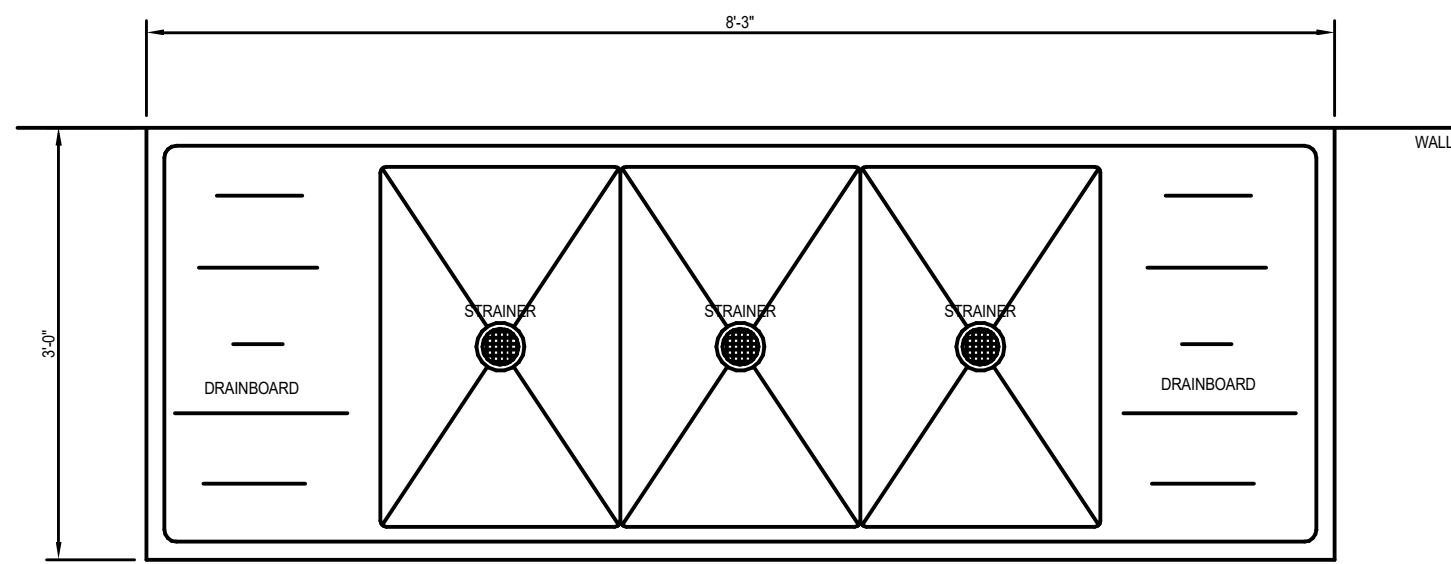
SALAD PREP SINK - S-3C
SCALE: 3/4" = 1'-0"



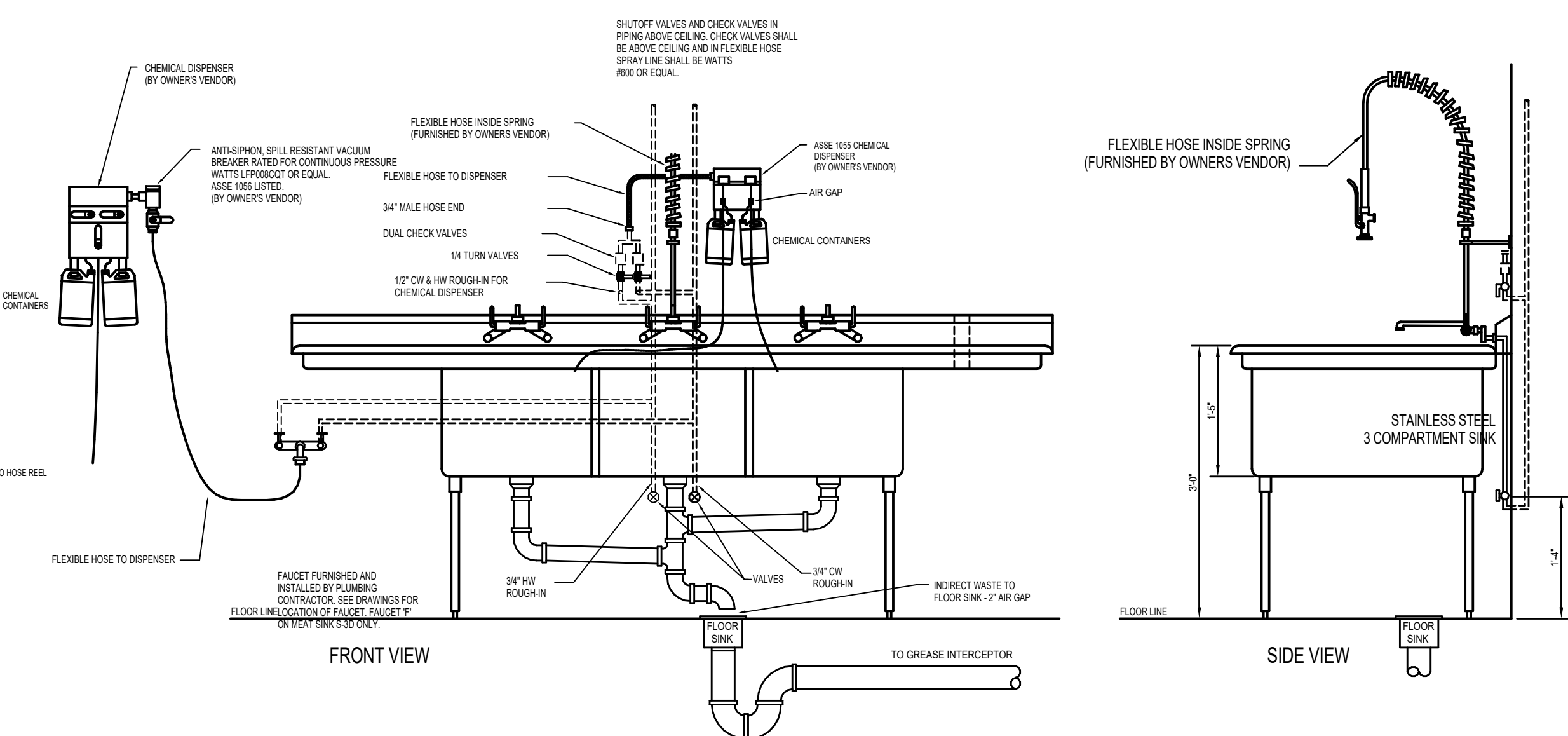
TOP VIEW



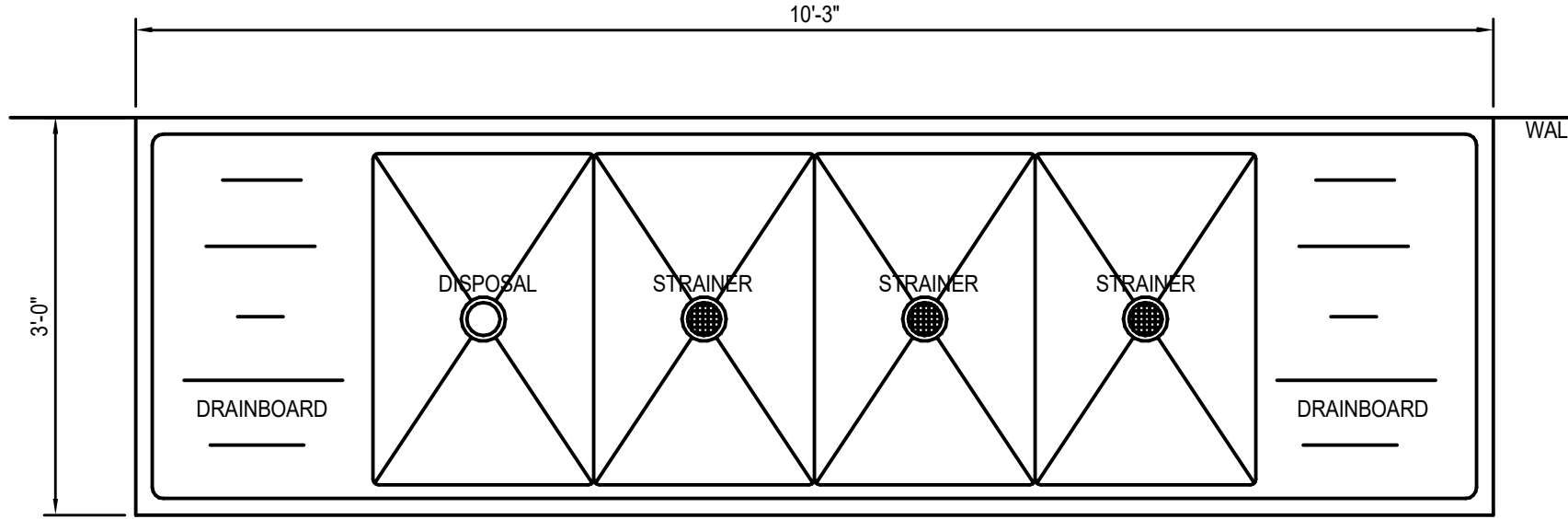
PRODUCE SINK - S-5
SCALE: 3/4" = 1'-0"



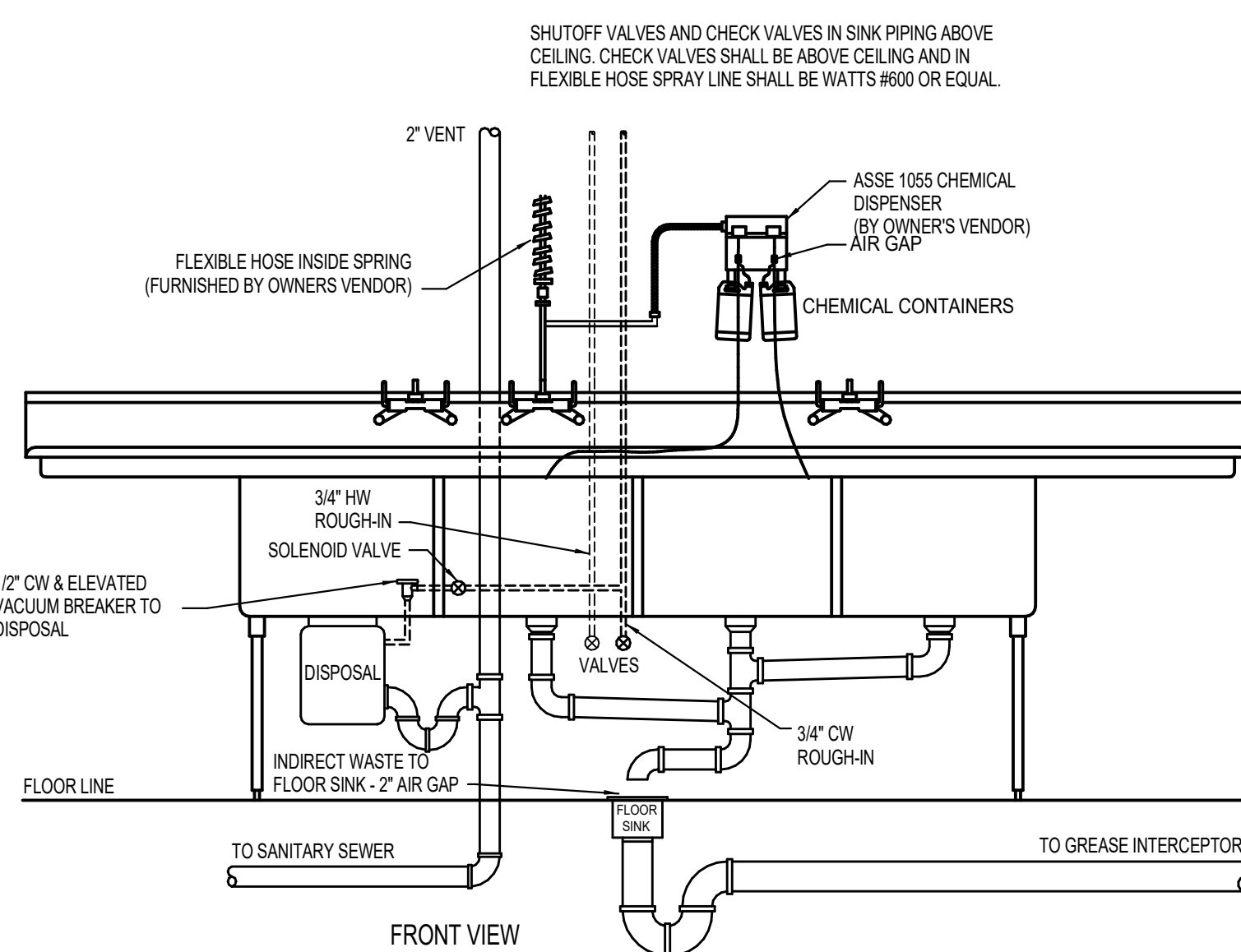
TOP VIEW



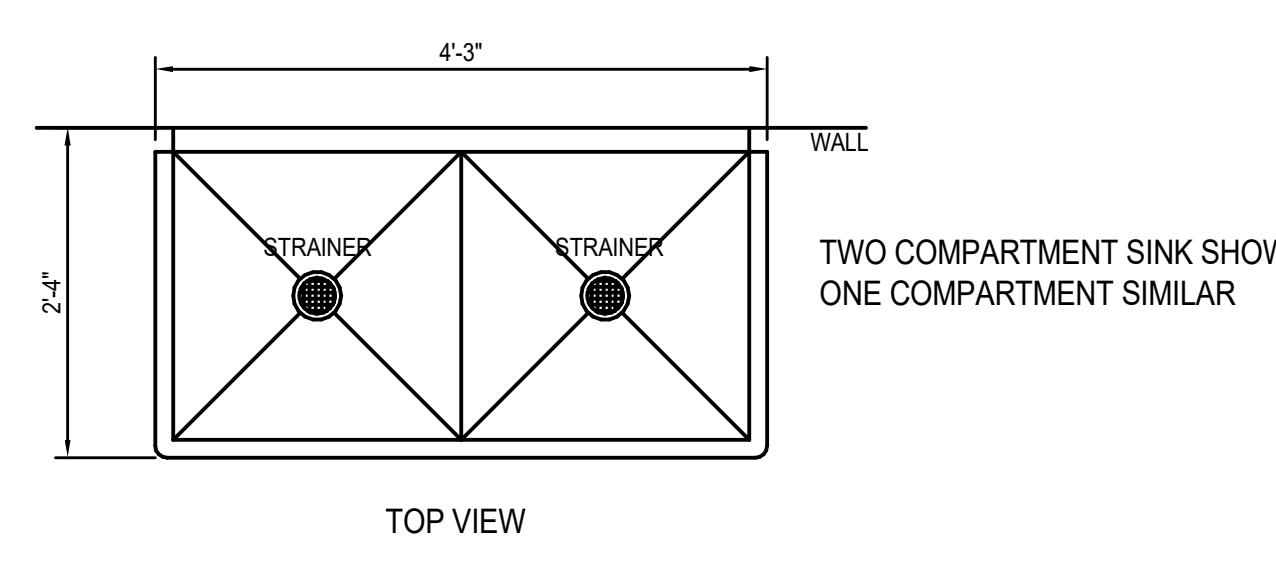
BAKERY SINK - S-3B, MEAT SINK - S-3D, or DELI SINK S-3E
SCALE: 3/4" = 1'-0"



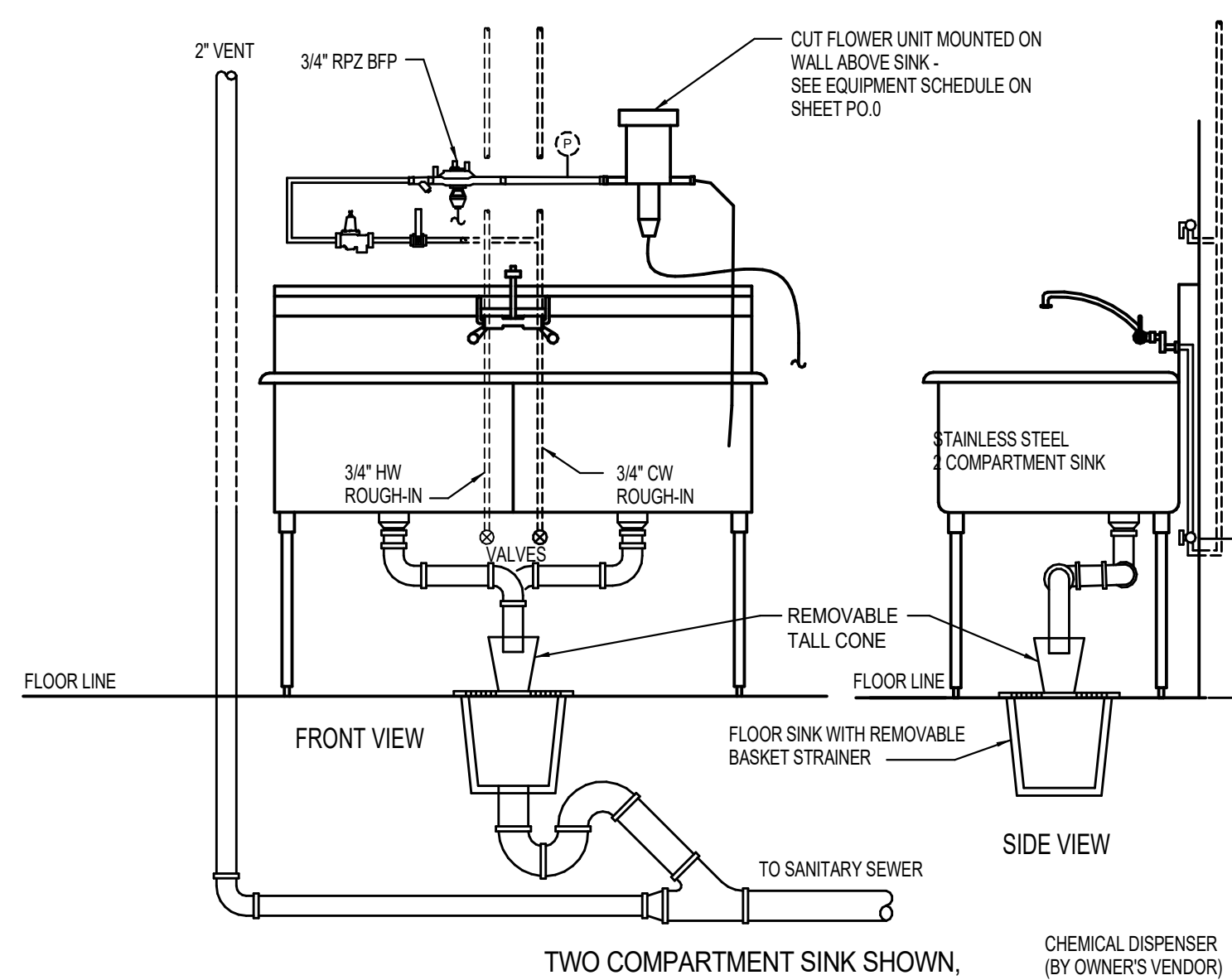
TOP VIEW



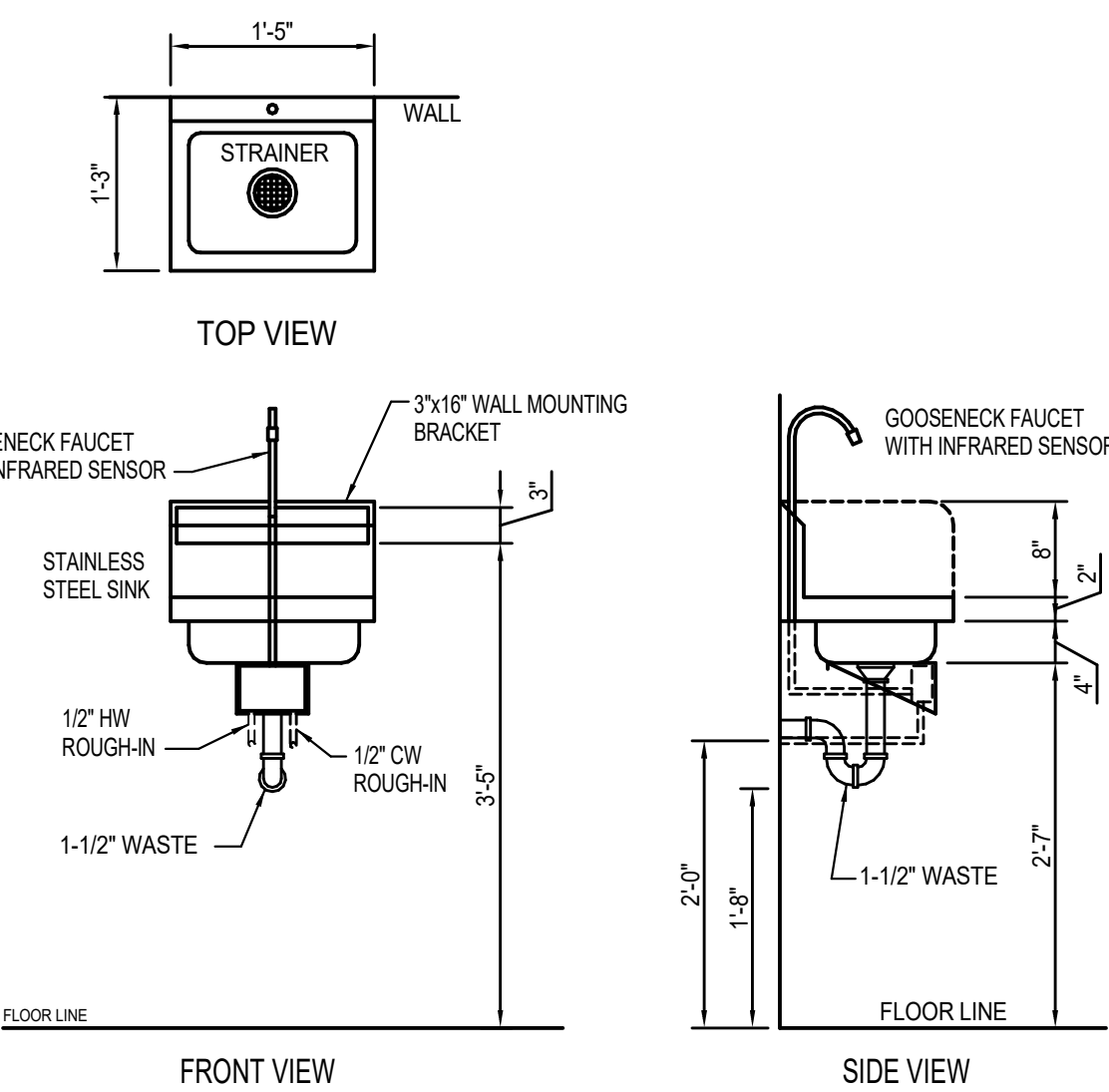
KITCHEN or ASIAN SINK - S-4
SCALE: 3/4" = 1'-0"



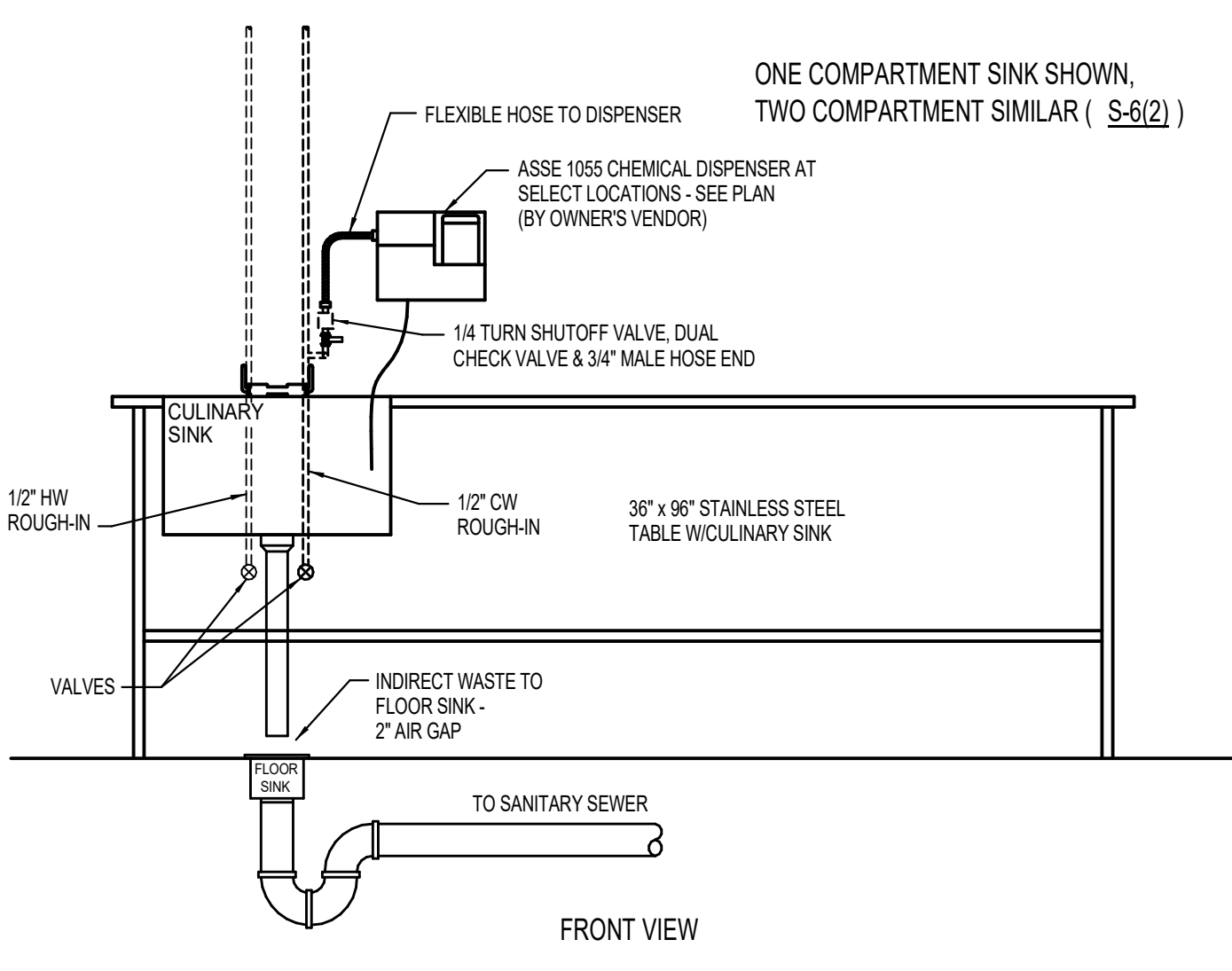
TOP VIEW



FLORAL SINK - S-2A
SCALE: 3/4" = 1'-0"



HAND SINK - HS
SCALE: 3/4" = 1'-0"



CULINARY SINK - S-6
SCALE: 3/4" = 1'-0"

| MULTI-COMPARTMENT SINK SCHEDULE | | | MULTI-COMPARTMENT SINK NOTES | | |
|---------------------------------|--|--|--|--|--|
| MARK | MFR/MODEL | DESCRIPTION | MARK | MFR/MODEL | DESCRIPTION |
| S-2A | JOHN BOOS T&S B-0133-B T&S B-0230LN/040903 | 2 COMPARTMENT FLORAL SINK FAUCET WITH 12" THREADED SPOUT AND VACUUM BREAKER | S-4 | JOHN BOOS T&S B-0133-B T&S B-0230LN/040903 T&S 3952 | 4 COMPARTMENT KITCHEN or ASIAN SINK PRERINSE 16" SPOUT FAUCET FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE |
| S-2B | JOHN BOOS T&S B-0133-B T&S B-0230LN/040903 T&S 3952 | 2 COMPARTMENT SEAFOOD/SERVICE MEAT SINK PRERINSE FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE | S-5 | JOHN BOOS | PRODUCE SINK |
| S-3B | JOHN BOOS T&S B-0133-B T&S B-0231 T&S B-0230LN/040903 T&S 3952 | 3 COMPARTMENT BAKERY SINK PRERINSE 12" SPOUT FAUCET FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE | S-6 | JOHN BOOS | CULINARY SINK |
| S-3C | JOHN BOOS T&S B-0133-B T&S B-0231 T&S B-0230LN/040903 T&S 3952 | 3 COMPARTMENT SALAD PREP SINK PRERINSE 12" SPOUT FAUCET FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE | HS | JOHN BOOS | HAND SINK |
| S-3D | JOHN BOOS T&S B-0133-B T&S B-0231 T&S B-0230LN/040903 T&S 3952 | 3 COMPARTMENT MEAT SINK PRERINSE 12" SPOUT FAUCET FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE | NOTE: SEE FIXTURE AND EQUIPMENT PLAN FOR ORIENTATION OF SINKS (RIGHT or LEFT HAND) | | |
| S-3E | JOHN BOOS T&S B-0133-B T&S B-0231 T&S B-0230LN/040903 T&S 3952 | 3 COMPARTMENT DELI SINK PRERINSE 12" SPOUT FAUCET FAUCET WITH 8" THREADED SPOUT AND VACUUM BREAKER LEVER WASTE | | | |

REVISION

DATE BY

HENDERSON
ENGINEERS

8345 LENEKA DRIVE, SUITE 300
LENEKA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM

1950003081
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI

JOSHUA N. HOVER

NUMBER
PE-2017008503

Oct 23 2020

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 50386
TEL 515.281.0330 FAX 515.267-2600
HY-VEE
EMPLOYEE OWNED

NORTH

PLAN NORTH

SINK DETAILS

1. ALL SINKS, FAUCETS, STRAINERS, SPRAYHEAD ASSEMBLIES, KNEE VALVES, AND CONTROLS SHOWN HERE ARE FURNISHED BY HY-VEE AND INSTALLED BY PLUMBER.
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ROUGH-INS, PIPING, STOP VALVES, VACUUM BREAKER AND CHECK VALVES FOR COMPLETE INSTALLATION OF SINKS AND TRIM.
3. ALL PIPE SIZES ARE SHOWN I.P.S.
4. SECURE ALL SINKS TO WALL WITH CHROME PLATED 4" SCREWS
5. ALL EXPOSED SINK WASTE LINES AND WATER LINES LESS THAN 2" DIAMETER SHALL BE CHROME PLATED, 2" DIAMETER AND LARGER SHALL BE WHITE PVC.
6. SINK DETAILS ON THIS SHEET ARE FOR INFORMATION ONLY, INTENDED TO SHOW QUANTITY OF HOODS AND GENERAL LAYOUT OF ITEMS FURNISHED BY HY-VEE. PLUMBING CONTRACTOR TO VERIFY EXACT LOCATIONS OF WATER AND WASTE AND VENT ROUGH-INS PRIOR TO INSTALLING ANY PIPING.

PROJECT MANAGER
SL

CHECKED BY
HEI

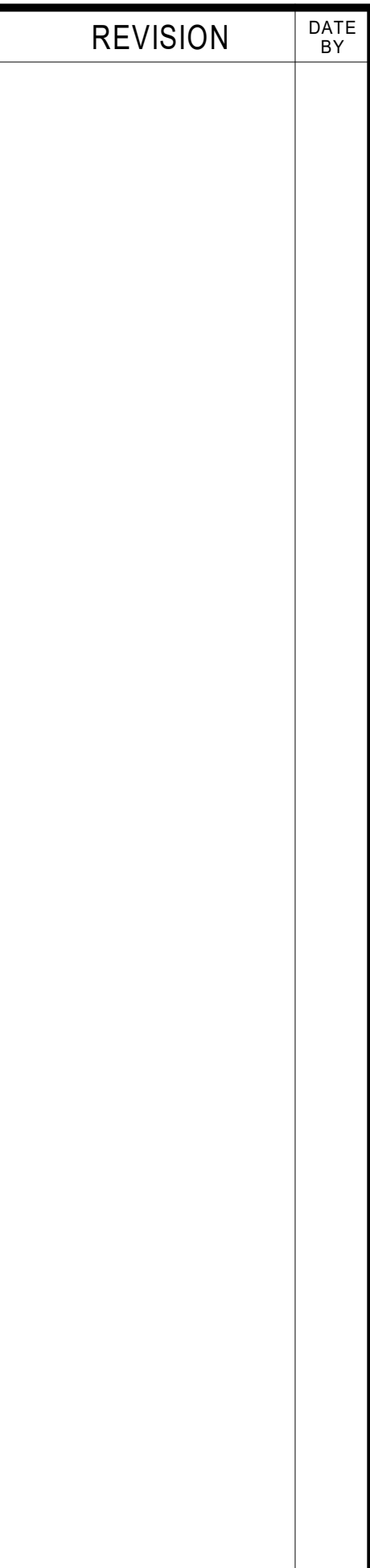
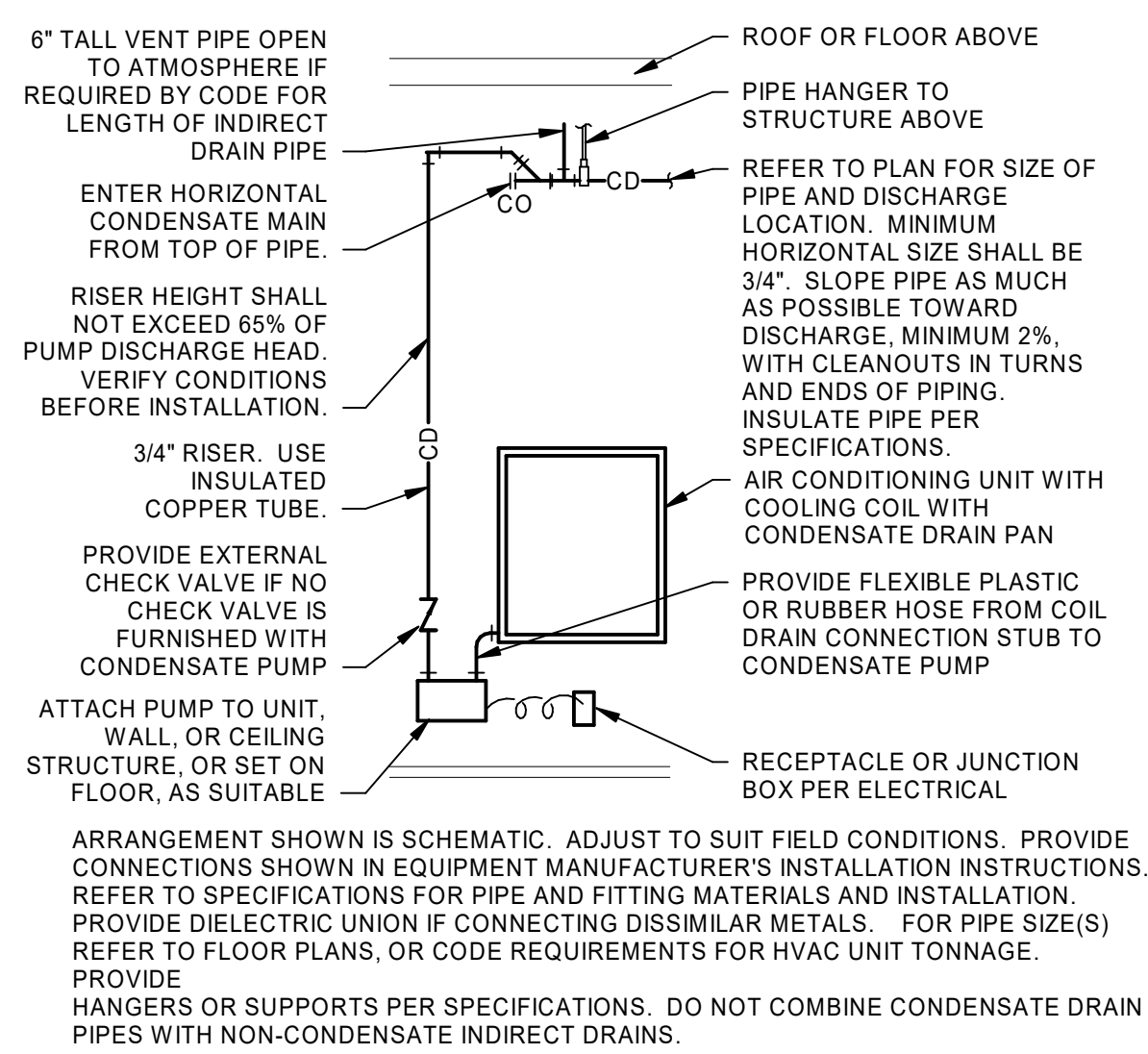
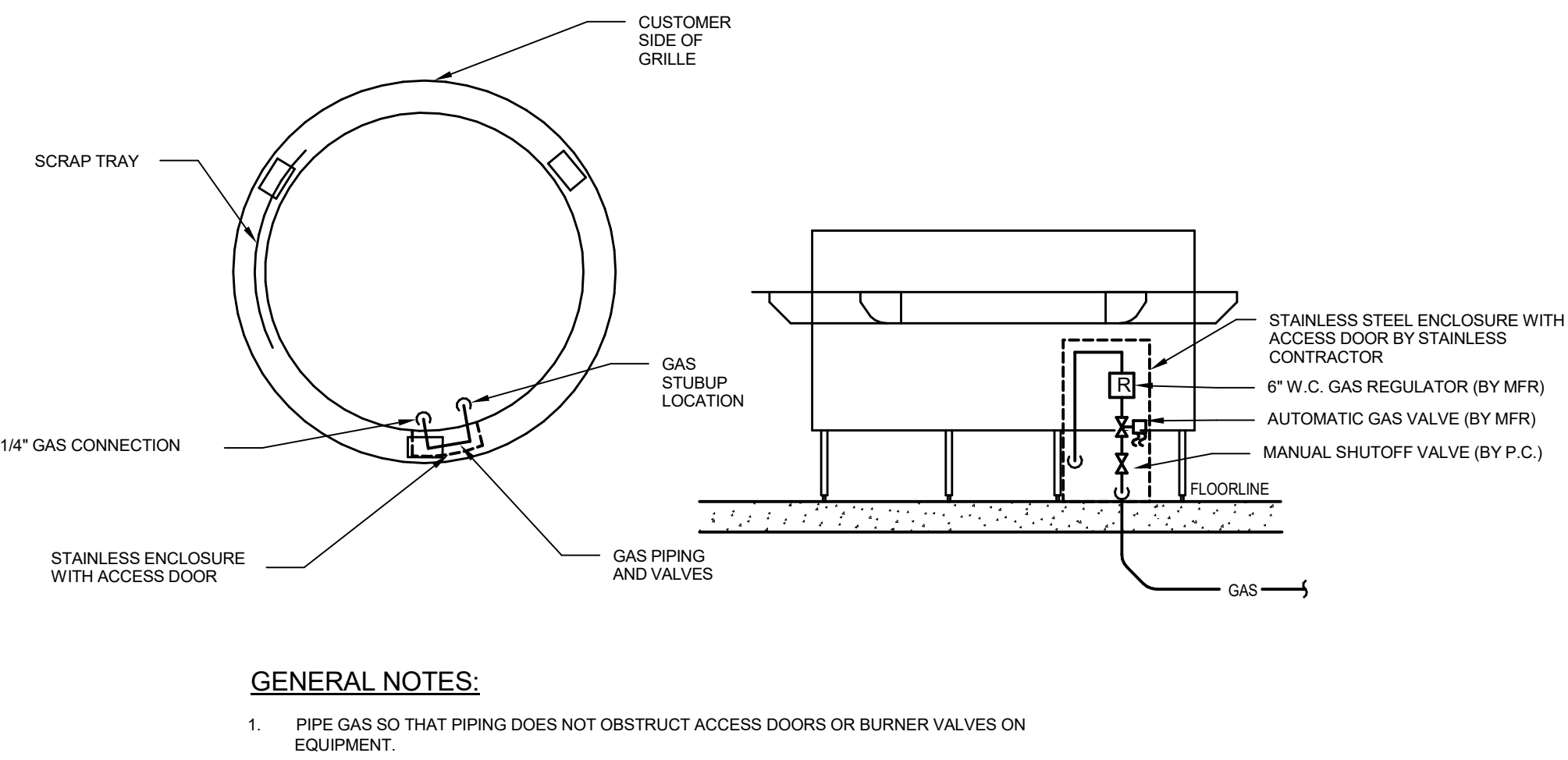
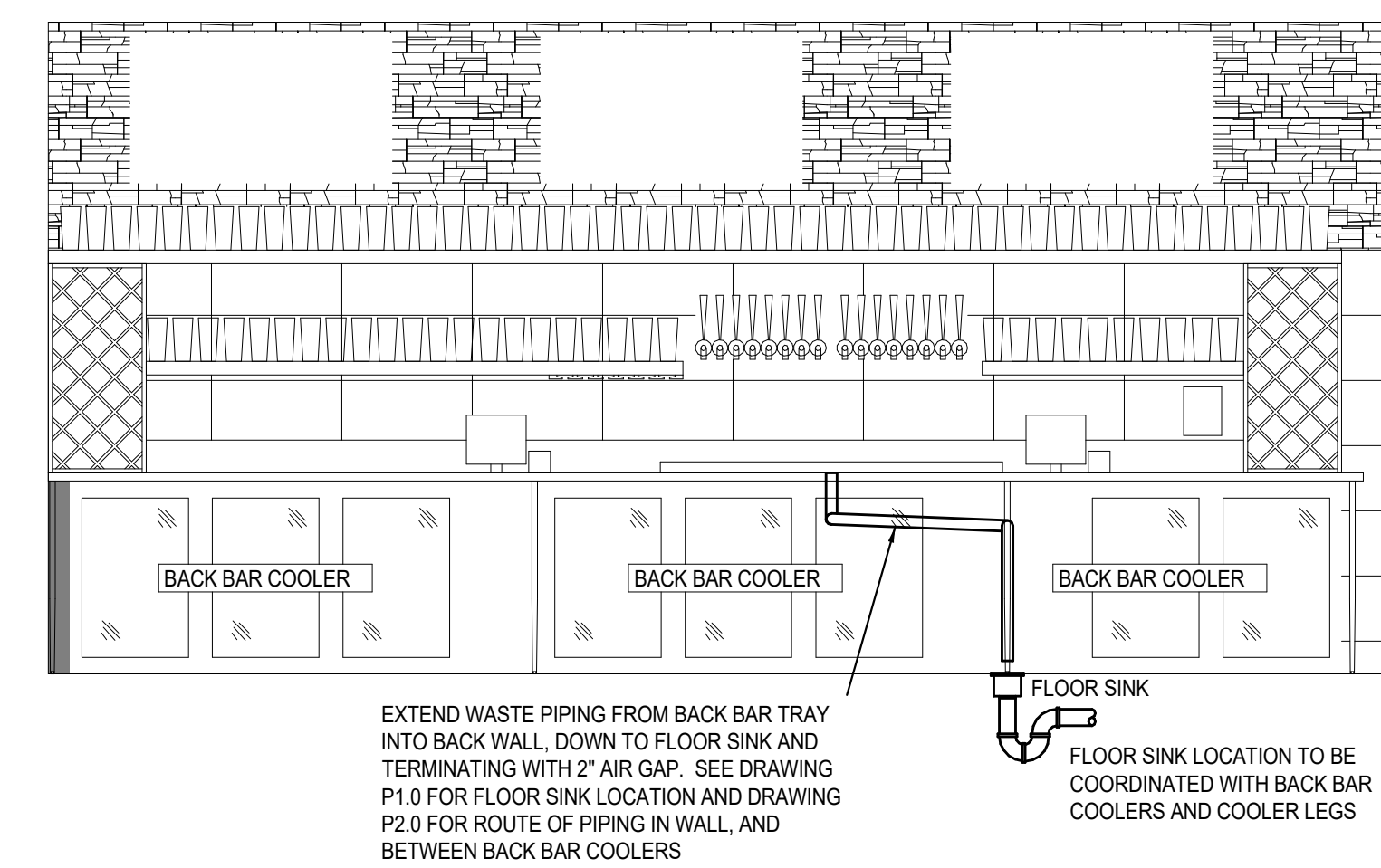
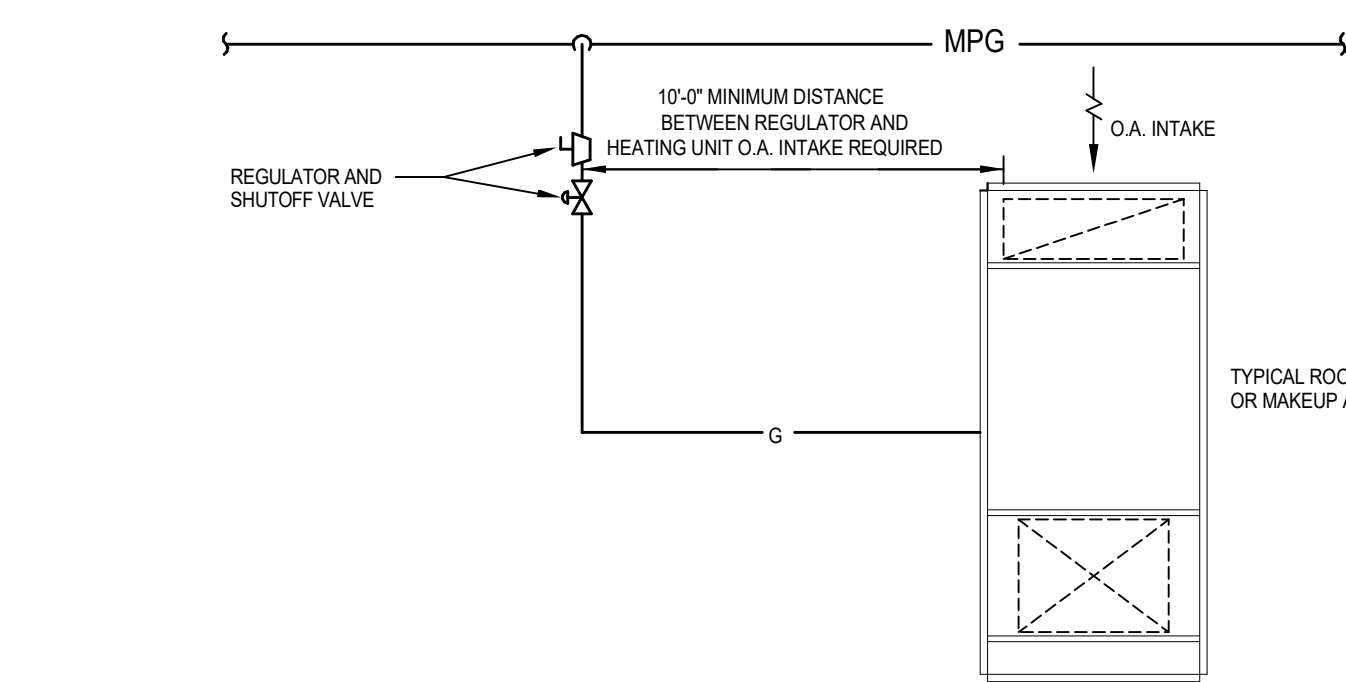
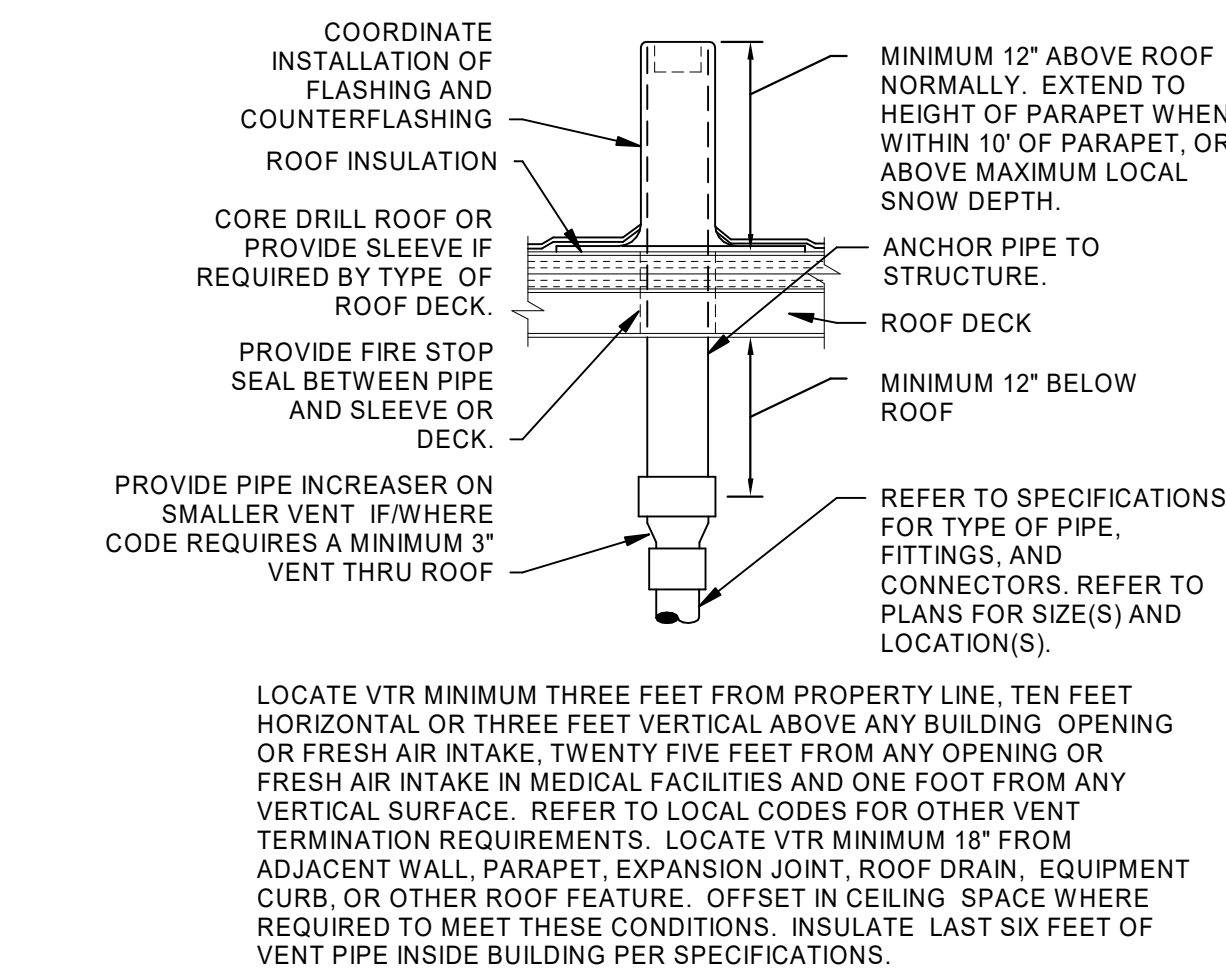
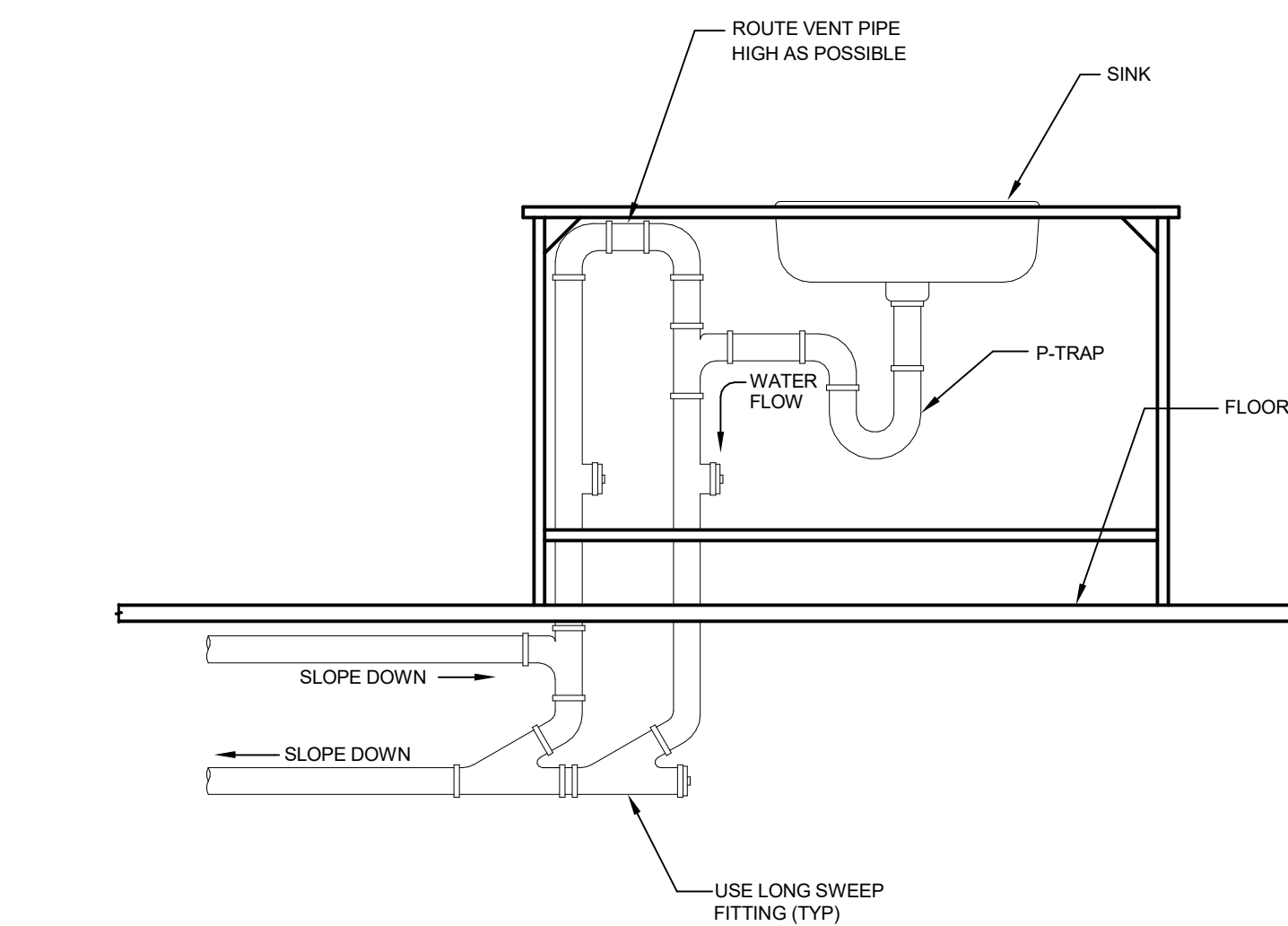
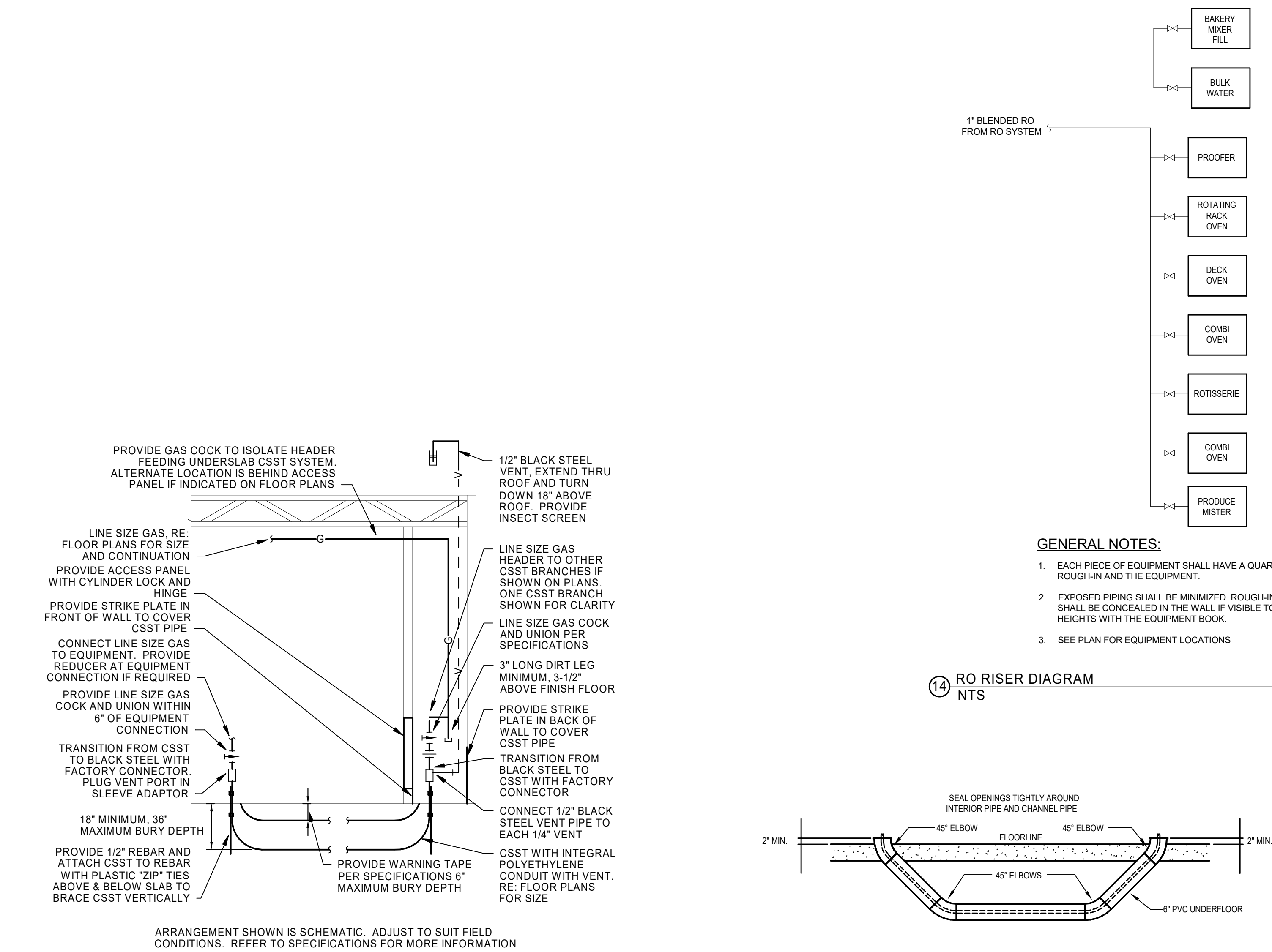
DRAWN BY:
HEI

DATE
10/19/2020

SCALE
AS NOTED

JOB NUMBER
62830547

SHEET
P4.0



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 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI

JOSHUA N.
HOVER

NUMBER
PE-2017008503



PROFESSIONAL ENGINEER

Oct 23 2020

JOSHUA N. HOVER

LICENSE # PE-2017008503

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD
HY-VEE INC.
5820 WESTOWN PARK
WEST DES MOINES,
IOWA 50319
TELEPHONE: (515) 212-
2935
FAX: (515) 267-2935
EMPLOYEE OWNED

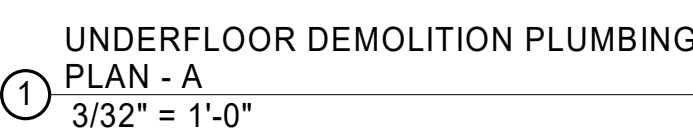
 

NORTH PLAN NORTH

PLUMBING DETAILS

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

P4.1



- | | |
|----------|------|
| REVISION | DATE |
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PROFESSIONAL SEAL

STATE OF MISSOURI

JOSHUA N.
HOVER



NUMBER
PE-2017008503

PROFESSIONAL ENGINEER

Oct 23 2020

JOSHUA N. HOVER

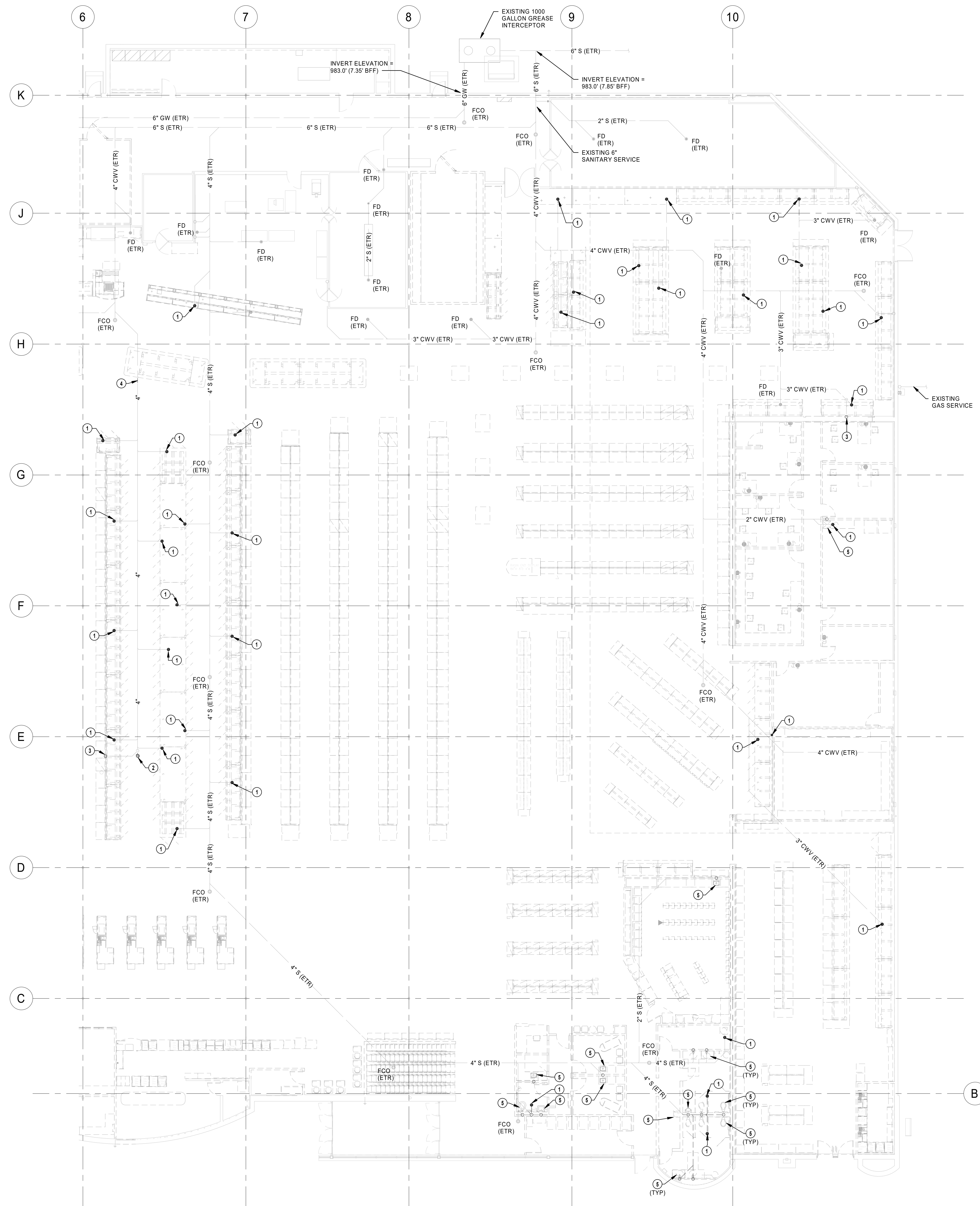
LICENSE # PE-2017008503

 NORTH  PLAN NORTH

UNDERFLOOR
DEMOLITION
PLUMBING PLAN -
A

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

PD 1.0A



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

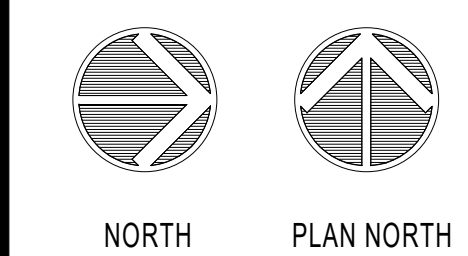
- PLUMBING PLAN NOTES**
- 1 REMOVE EXISTING FLOOR DRAIN/SINK GRATE, BODY AND TRAP. CAP AND ABANDON WASTE PIPE BELOW FLOOR IF NOT REUSED IN NEW WORK. PATCH FLOOR TO MATCH EXISTING.
 - 2 REMOVE EXISTING FLOOR CLEANOUT BODY AND TOP. PATCH FLOOR TO MATCH EXISTING.
 - 3 REMOVE EXISTING VENT PIPING BACK TO ACTIVE MAIN AND CAP.
 - 4 REMOVE WASTE PIPING AS INDICATED. CAP AND ABANDON ANY UNUSED WASTE PIPING.
 - 5 REMOVE EXISTING PLUMBING FIXTURE. CAP AND ABANDON WASTE PIPE BELOW FLOOR IF NOT REUSED IN NEW WORK. PATCH FLOOR TO MATCH EXISTING.

REVISION DATE BY

HENDERSON
ENGINEERS
8345 LENEKA DRIVE, SUITE 300
LENEKA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO. E-558D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
JOSHUA N. HOVER
NUMBER
PE-2017008503
Oct 23 2020
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 50388
TEL 515.267-2600 FAX 515.267-4335
Hy-Vee
EMPLOYEE OWNED



UNDERFLOOR
DEMOLITION
PLUMBING PLAN -
B

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| PROJECT MANAGER SL | CHECKED BY HEI |
| DRAWN BY: HEI | DATE 10/19/2020 |
| SCALE AS NOTED | JOB NUMBER 62830547 |
| SHEET: | |

PD1.0B



- | REVISION | DATE BY |
|----------|---------|
| | |

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD
HY-VEE INC.
5620 WESTTOWN PARKWAY
ST. LOUIS, MO 63126
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
HyVee®
EMPLOYEE OWNED

NORTH

PLAN NORTH

DEMOLITION
PLUMBING PLAN -
A

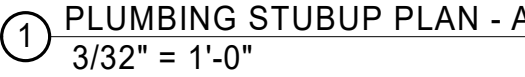
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| PROJECT MANAGER SL | CHECKED BY: HEI |
| DRAWN BY: HEI | DATE: 10/19/2020 |
| SCALE: AS NOTED | JOB NUMBER: 62930547 |
| SHEET: | |

PD2.0A



- | REVISION | DATE
BY |
|----------|------------|
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10/22/2020 4:10:27 PM