

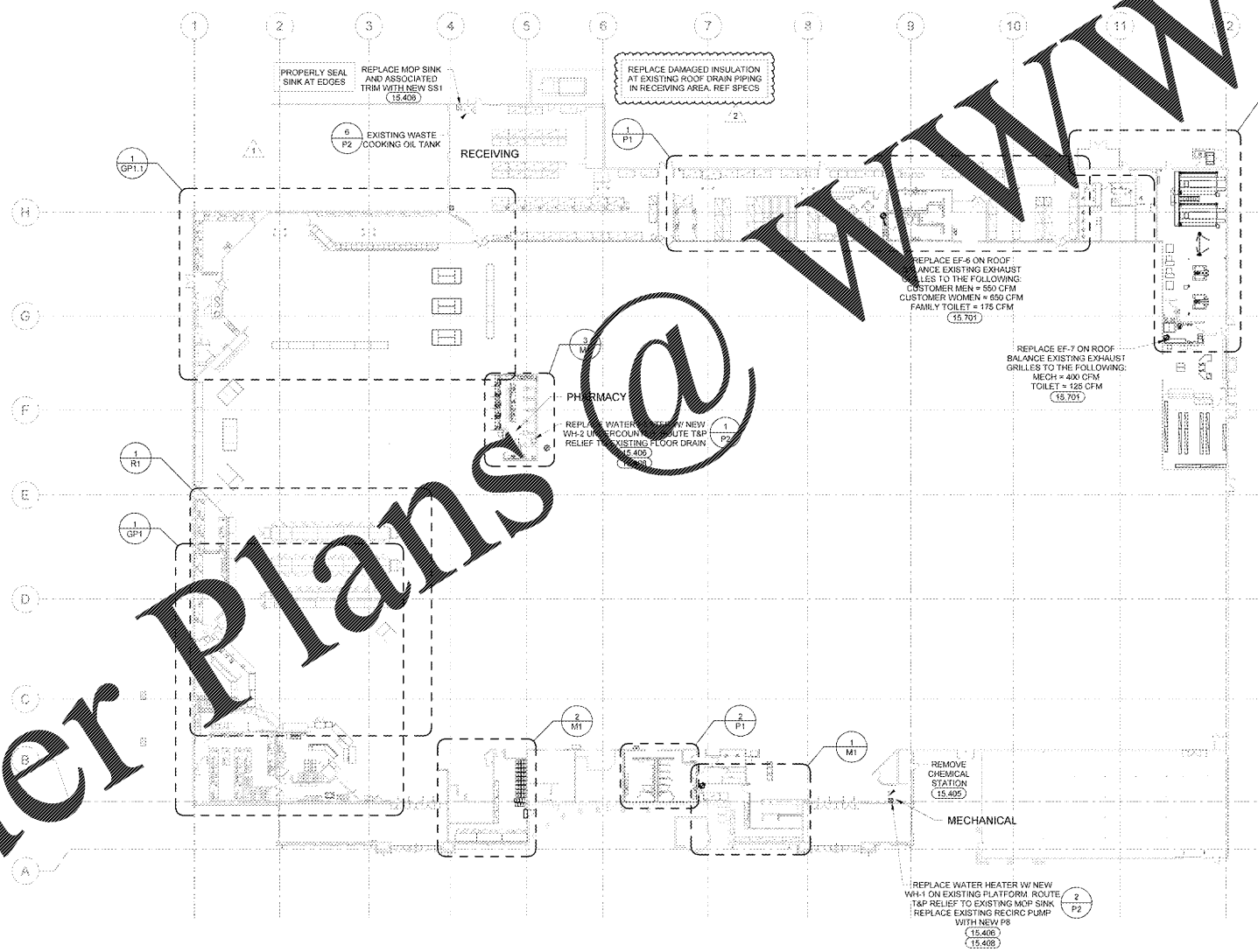
KEYNOTES

- 15.405 PROPERLY CAP, PLUG AND CONCEAL ANY PIPING LEFT IN PLACE. CAP ABANDONED SEWER PIPING A MINIMUM OF 8" BELOW FINISHED FLOOR. MATCH EXISTING FLOOR CONSTRUCTION AND FINISHES. RE-ARCHITECTURAL PLANS. REMOVE UNUSED WATER AND VENT PIPING ABOVE CEILING AND CAP REMAINING PIPE.
15.406 PLUMBING CONTRACTOR TO MAKE ALL NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES BEING RELOCATED OR NEW.
15.408 ROUTE WATER HEATER T&P DISCHARGE TO FLOOR DRAIN WITH AHI APPROVED AIR GAP.
15.701 REPLACE EXHAUST FAN, REUSE GRILLES AND DUCTWORK AS APPLICABLE. REMOVE GRILLES AND DUCTWORK NOT BEING REUSED. REPAIR ROOF AND WALL AS REQUIRED. VERIFY EXISTING CURBS AND PROVIDE NEW CURBS AS REQUIRED.

GENERAL NOTES

- 1. GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL/PLUMBING DRAWINGS.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES. PVC-DWV PLASTIC SCHEDULE 40 MAY BE USED IN LIEU OF CAST IRON.
3. STORE MUST BE KEPT IN OPERATION. ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. PAY ALL NECESSARY FEES AND PERMITS.
4. IF NEW CONSTRUCTION DISRUPTS EXISTING UNDERGROUND SERVICES (GAS, SEWER, DOMESTIC WATER, FIRE SPRINKLER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION.
5. CONTRACTOR IS RESPONSIBLE FOR UTILIZING OWNER APPROVED ROOFING CONTRACTORS FOR CUTTING AND PATCHING ROOF.
6. CONTRACTOR SHALL FURNISH AND INSTALL EXHAUST FANS AND EXHAUST FAN CURBS. CONTRACTOR SHALL INSTALL STRUCTURAL SUPPORTS, BRACINGS AND ANCHORS AS SHOWN ON PLANS.
7. 15. NOT USED.
18. COORDINATE LOCATION OF DUCTWORK AND DIFFUSERS WITH LIGHT FIXTURES TO PREVENT EXCESSIVE SHADOWS ON THE SALES OR STOCKING FLOOR. LIGHT FIXTURE LOCATIONS TAKE OFF FROM FIELD. VERIFY STRUCTURAL CONDITIONS BEFORE FABRICATION OF DUCTWORK.
17. FLEXIBLE DUCT CONNECTIONS TO NEW OR RELOCATED DIFFUSERS AND GRILLES ARE REQUIRED. INSPECT CONDITION OF EXISTING DUCT AND REPLACE DAMAGED DUCT WITH EQUIVALENT TYPE OF DUCT AS REQUIRED.
18. DUCT SIZES SHOWN ON DRAWINGS ARE NET FREE AREA. CONTRACTOR'S OPTION ROUND DUCTWORK OF EQUIVALENT FREE AREA MAY BE USED IN LIEU OF RECTANGULAR. INCREASE RECTANGULAR SHEET METAL SIZE AS REQUIRED FOR LINER. REFER TO SPECIFICATIONS FOR THE INSULATION THICKNESS.
19. DUCT SUPPORT AND GRILLE DETAIL IS APPLICABLE THROUGHOUT THE STORE. DO NOT USE FASTENERS THAT PENETRATE ROOF DECK.
20. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT THE STORE.
21. EXISTING PIPE SIZES AND LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED AND TO VERIFY THAT PROPER SLOPES AND ELEVATIONS ARE AVAILABLE. MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SAN SEWER PIPING 3" OR LARGER. MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SAN SEWER PIPING SMALLER THAN 3". REF ARCH. FOR TRENCHING REQUIREMENTS.
22. PLUMBING CONTRACTOR SHALL VERIFY EXISTING SEWER AND VENT PIPE SIZE AND ELEVATION AND SHALL VERIFY THAT PROPER SLOPES ARE AVAILABLE BEFORE CUTTING FLOOR SLAB FOR NEW SEWER PIPING.
23. PROVIDE ACCESS DOORS TO NEW WATER VALVES AND CLEANOUTS AS NECESSARY WHEN INSTALLED IN INACCESSIBLE AREAS.
24. PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION.
25. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE CAST IRON, COATED INSIDE AND OUTSIDE, WHERE PERMITTED BY LOCAL CODES. PVC-DWV PLASTIC SCHEDULE 40 MAY BE USED IN LIEU OF CAST IRON.
26. WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER JOINED WITH WROUGHT COPPER FITTINGS. MAKE JOINTS USING LEAD-FREE SOLDER AND A NON-CORROSIVE, PASTE-TYPE FLUX. PIPING CONNECTIONS TO A FLEXIBLE WITH CHROME-PLATED SEAMLESS BRASS TUBE. INSULATE HOT & COLD WATER PIPING WITH RIGID GLASS FIBER A MINIMUM OF 1/2" THICK WITH FAS-ALL EXTERIOR JACKET (VAPOR BARRIER).
27. PROVIDE AUTOMATIC TRAP FOR ALL FLOOR DRAINS IF REQUIRED BY LOCAL PLUMBING CODES.
28. ALL FLOOR CLEANOUTS SHALL BE INSTALLED THROUGH ROOF FINISH MATERIAL OR THROUGH CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS.
29. LOCATE ALL FLOOR CLEAN-OUTS OUT OF TRAFFIC WAYS, WHILE MAINTAINING ACCESSIBILITY. LOCATE PER DIMENSIONS AS SHOWN ON PLANS.
30. FLOOR CUTS SHALL BE STRAIGHT AND CLEAN. REPLACE REMOVED SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT FLOOR SLAB. REFERENCE ARCHITECTURAL SHEETS. COORDINATE WITH GENERAL CONTRACTOR.
31. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.
32. CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION.
33. DO NOT INSTALL PIPING WITHIN COOLER PANELS. INSTALL EXPOSED PIPING IN PREP AREA A MINIMUM OF 1" FROM PANEL WALL AND 6" ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
34. PROVIDE ESCUTCHEON PLATES FOR PLUMBING PENETRATIONS THROUGH GROCERY CEILING AND WALLS.
35. PROVIDE AIR TIGHT SEAL AROUND PIPING PENETRATIONS THROUGH COOLER/FREEZER WALLS AND CEILING. FINISH WITH ESCUTCHEON PLATE.
36. PROVIDE HEAT TAPE AND INSULATION ON ALL WATER AND DRAIN PIPING EXPOSED TO FREEZING.
37. INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS.
38. AT CONTRACTOR'S OPTION, IN LIEU OF COPPER WATER PIPING, PEK OR AQUATHERM PIPING MAY BE USED IF APPROVED BY AHI. REFER TO EQUIVALENT NOMINAL PIPE SIZES SCHEDULE AND SPECIFICATIONS.
39. NOT USED.
40. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.

CONTRACTOR SHALL NOT ROUTE ANY PIPING COMPONENTS WITHIN 24" OF EXISTING FIRE SPRINKLER HEADS. THESE COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SEWER VENT PIPING, FORCED SEWER PIPING, WATER PIPING, REFRIGERANT PIPING, AND CONDUIT. ROUTING SUCH COMPONENTS CLOSER THAN 24" WILL CAUSE AN OBSTRUCTION TO THE SPRAY PATTERN OF THE SPRINKLER HEADS. IF ROUTING OF THESE COMPONENTS TOO CLOSE TO THE SPRINKLER HEAD IS UNAVOIDABLE, CONSULT WITH THE FIRE PROTECTION CONTRACTOR OR CONSULTANT.



1 MECHANICAL AND PLUMBING PLAN 1" = 3/8"=0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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 THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND E-MAIL TO NSR@HALLMART.COM THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS BEING SHUT DOWN TO BE DONE. THEN SEND A FOLLOW UP E-MAIL TO NSR@HALLMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

NATURAL GAS PIPING NOTES

- 1. CONTRACTOR SHALL COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LOCATION OF THE GAS METER, GAS PRESSURE REQUIREMENTS, RELOCATION AND/OR UPSIZING OF EXISTING SERVICE PIPING IF REQUIRED. CONTRACTOR SHALL PAY ALL COSTS INCURRED BY GAS COMPANY. CONTACT GAS COMPANY FOR SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO METER, GAS METER AND SERVICE REGULATOR TO BE PROVIDED BY UTILITY COMPANY. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION. THE NATURAL GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 1000 BTU/H MSH PER CUBIC FOOT, A SPECIFIC GRAVITY OF 0.6, AND ON PRIMARY EQUIPMENT SPECIFICATIONS IN SCHEDULES. GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL GAS PIPING UP TO AND INCLUDING THE REGULATOR AND FINAL CONNECTION TO THE EQUIPMENT. REFERENCE MECHANICAL SHEETS FOR ALL PIPE CONNECTIONS AND ROUTING. REMOVE UNUSED GAS PIPING AND PAINT NEW PIPING YELLOW PER SPECIFICATIONS.
3. PROVIDE NEW GAS PIPING FOR NEW EQUIPMENT SIZED AS INDICATED FOR 5 PSIG WITH PRESSURE DROP TO 1.5 PSIG AT EQUIPMENT REGULATOR. CONNECT AT EXISTING GAS METER OR GAS PIPING OF EQUAL OR LARGER SIZE, AND PROVIDE PRESSURE REGULATOR (SET TO EQUIPMENT DELIVERY PRESSURE), VALVES, AND ACCESSORIES PER THE SPECIFICATIONS & LOCAL CODES.
4. GAS AND CONDENSATE PIPING SHALL BE MINIMUM 5' OF CLEAR FOR ROOF TOP EQUIPMENT MAINTENANCE ACCESS.
5. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT INCLUDING BUT NOT LIMITED TO ROOFTOP UNITS, RADIANT HEATERS, UNIT HEATERS, AND COOKING EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.



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RETAIL DESIGN COLLABORATIVE
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MECHANICAL AND PLUMBING PLAN

SHEET: MP1