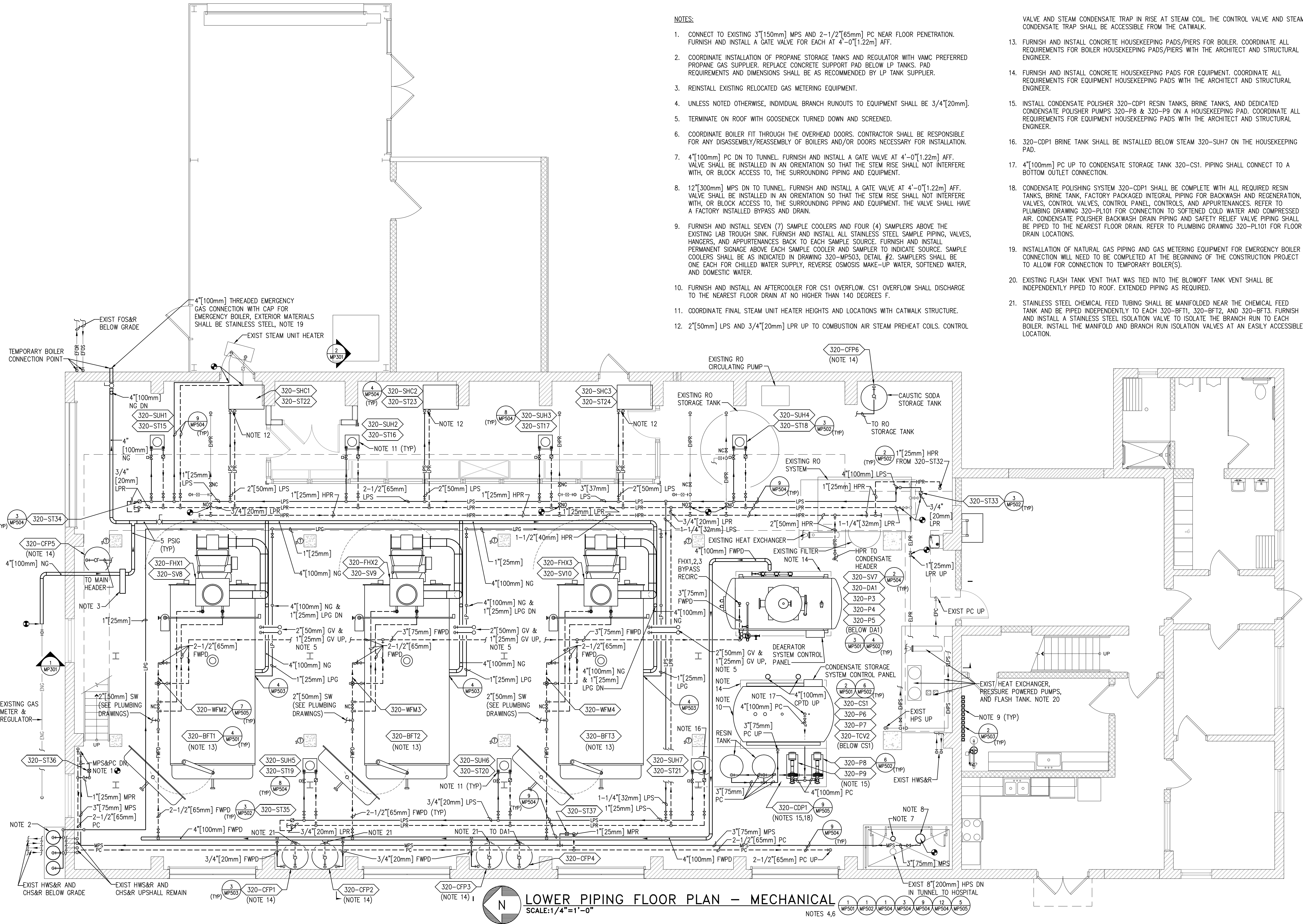


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



NOTES:

- CONNECT TO EXISTING 3"[150mm] MPS AND 2-1/2"[65mm] PC NEAR FLOOR PENETRATION. FURNISH AND INSTALL A GATE VALVE FOR EACH AT 4'-0"[1.22m] AFF.
- COORDINATE INSTALLATION OF PROPANE STORAGE TANKS AND REGULATOR WITH VAMC PREFERRED PROPANE GAS SUPPLIER. REPLACE CONCRETE SUPPORT PAD BELOW LP TANKS. PAD REQUIREMENTS AND DIMENSIONS SHALL BE AS RECOMMENDED BY LP TANK SUPPLIER.
- REINSTALL EXISTING RELOCATED GAS METERING EQUIPMENT.
- UNLESS NOTED OTHERWISE, INDIVIDUAL BRANCH RUNOUTS TO EQUIPMENT SHALL BE 3/4"[20mm].
- TERMINATE ON ROOF WITH GOOSENECK TURNED DOWN AND SCREENED.
- COORDINATE BOILER FIT THROUGH THE OVERHEAD DOORS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISASSEMBLY/REASSEMBLY OF BOILERS AND/OR DOORS NECESSARY FOR INSTALLATION.
- 4"[100mm] PC DN TO TUNNEL. FURNISH AND INSTALL A GATE VALVE AT 4'-0"[1.22m] AFF. VALVE SHALL BE INSTALLED IN AN ORIENTATION SO THAT THE STEM RISE SHALL NOT INTERFERE WITH, OR BLOCK ACCESS TO, THE SURROUNDING PIPING AND EQUIPMENT.
- 12"[300mm] MPS DN TO TUNNEL. FURNISH AND INSTALL A GATE VALVE AT 4'-0"[1.22m] AFF. VALVE SHALL BE INSTALLED IN AN ORIENTATION SO THAT THE STEM RISE SHALL NOT INTERFERE WITH, OR BLOCK ACCESS TO, THE SURROUNDING PIPING AND EQUIPMENT. THE VALVE SHALL HAVE A FACTORY INSTALLED BYPASS AND DRAIN.
- FURNISH AND INSTALL SEVEN (7) SAMPLE COOLERS AND FOUR (4) SAMPLERS ABOVE THE EXISTING LAB TROUGH SINK. FURNISH AND INSTALL ALL STAINLESS STEEL SAMPLE PIPING, VALVES, HANGERS, AND APPURTENANCES BACK TO EACH SAMPLE SOURCE. FURNISH AND INSTALL PERMANENT SIGNAGE ABOVE EACH SAMPLE COOLER AND SAMPLER TO INDICATE SOURCE. SAMPLE COOLERS SHALL BE AS INDICATED IN DRAWING 320-MP503, DETAIL #2. SAMPLERS SHALL BE ONE EACH FOR CHILLED WATER SUPPLY, REVERSE OSMOSIS MAKE-UP WATER, SOFTENED WATER, AND DOMESTIC WATER.
- FURNISH AND INSTALL AN AFTERCOOLER FOR CS1 OVERFLOW. CS1 OVERFLOW SHALL DISCHARGE TO THE NEAREST FLOOR DRAIN AT NO HIGHER THAN 140 DEGREES F.
- COORDINATE FINAL STEAM UNIT HEATER HEIGHTS AND LOCATIONS WITH CATWALK STRUCTURE.
- 2"[50mm] LPS AND 3/4"[20mm] LPR UP TO COMBUSTION AIR STEAM PREHEAT COILS. CONTROL

- VALVE AND STEAM CONDENSATE TRAP IN RISE AT STEAM COIL. THE CONTROL VALVE AND STEAM CONDENSATE TRAP SHALL BE ACCESSIBLE FROM THE CATWALK.
- FURNISH AND INSTALL CONCRETE HOUSEKEEPING PADS/PIERS FOR BOILER. COORDINATE ALL REQUIREMENTS FOR BOILER HOUSEKEEPING PADS/PIERS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- FURNISH AND INSTALL CONCRETE HOUSEKEEPING PADS FOR EQUIPMENT. COORDINATE ALL REQUIREMENTS FOR EQUIPMENT HOUSEKEEPING PADS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- INSTALL CONDENSATE POLISHER 320-CP1 RESIN TANKS, BRINE TANKS, AND DEDICATED CONDENSATE POLISHER PUMPS 320-P8 & 320-P9 ON A HOUSEKEEPING PAD. COORDINATE ALL REQUIREMENTS FOR EQUIPMENT HOUSEKEEPING PADS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- 320-CP1 BRINE TANK SHALL BE INSTALLED BELOW STEAM 320-SUH7 ON THE HOUSEKEEPING PAD.
- 4"[100mm] PC UP TO CONDENSATE STORAGE TANK 320-CS1. PIPING SHALL CONNECT TO A BOTTOM OUTLET CONNECTION.
- CONDENSATE POLISHING SYSTEM 320-CP1 SHALL BE COMPLETE WITH ALL REQUIRED RESIN TANKS, BRINE TANK, FACTORY PACKAGED INTEGRAL PIPING FOR BACKWASH AND REGENERATION, VALVES, CONTROL VALVES, CONTROL PANEL, CONTROLS, AND APPURTENANCES. REFER TO PLUMBING DRAWING 320-PL101 FOR CONNECTION TO SOFTENED COLD WATER AND COMPRESSED AIR. CONDENSATE POLISHER BACKWASH DRAIN PIPING AND SAFETY RELIEF VALVE PIPING SHALL BE PIPED TO THE NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWING 320-PL101 FOR FLOOR DRAIN LOCATIONS.
- INSTALLATION OF NATURAL GAS PIPING AND GAS METERING EQUIPMENT FOR EMERGENCY BOILER CONNECTION WILL NEED TO BE COMPLETED AT THE BEGINNING OF THE CONSTRUCTION PROJECT TO ALLOW FOR CONNECTION TO TEMPORARY BOILER(S).
- EXISTING FLASH TANK VENT THAT WAS TIED INTO THE BLOWOFF TANK VENT SHALL BE INDEPENDENTLY PIPED TO ROOF. EXTENDED PIPING AS REQUIRED.
- STAINLESS STEEL CHEMICAL FEED TUBING SHALL BE MANIFOLDED NEAR THE CHEMICAL FEED TANK AND BE PIPED INDEPENDENTLY TO EACH 320-BFT1, 320-BFT2, AND 320-BFT3. FURNISH AND INSTALL A STAINLESS STEEL ISOLATION VALVE TO ISOLATE THE BRANCH RUN TO EACH BOILER. INSTALL THE MANIFOLD AND BRANCH RUN ISOLATION VALVES AT AN EASILY ACCESSIBLE LOCATION.

LOWER PIPING FLOOR PLAN - MECHANICAL  
SCALE: 1/4"=1'-0"

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