

BOILER ROOM PLAN - HVAC

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

THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL PANEL LOCATIONS (INSIDE ELECTRICAL AND OUTSIDE ELECTRICAL ROOMS) WITH PIPING AND DUCTWORK LAYOUTS PRIOR TO PIPING AND DUCTWORK INSTALLATION. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL N.E.C. (NATIONAL ELECTRIC CODE) CLEARANCES BEFORE INSTALLING ANY PIPING AND DUCTWORK. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS RESULTING TO REWORKING (REMOVING AND REINSTALLING) PIPING AND DUCTWORK INSTALLED IN CONFLICT WITH ELECTRICAL PANELS/EQUIPMENT CLEARANCES.

THE HVAC CONTRACTOR WILL BE RESPONSIBLE TO FOLLOW THE PROJECT PHASING SCHEDULE AND ONLY REMOVE SYSTEM COMPONENTS FROM AREAS OF THE PROJECT THAT ARE NO LONGER OCCUPIED AND ARE WITHIN THE CURRENT PHASING LIMITATIONS.

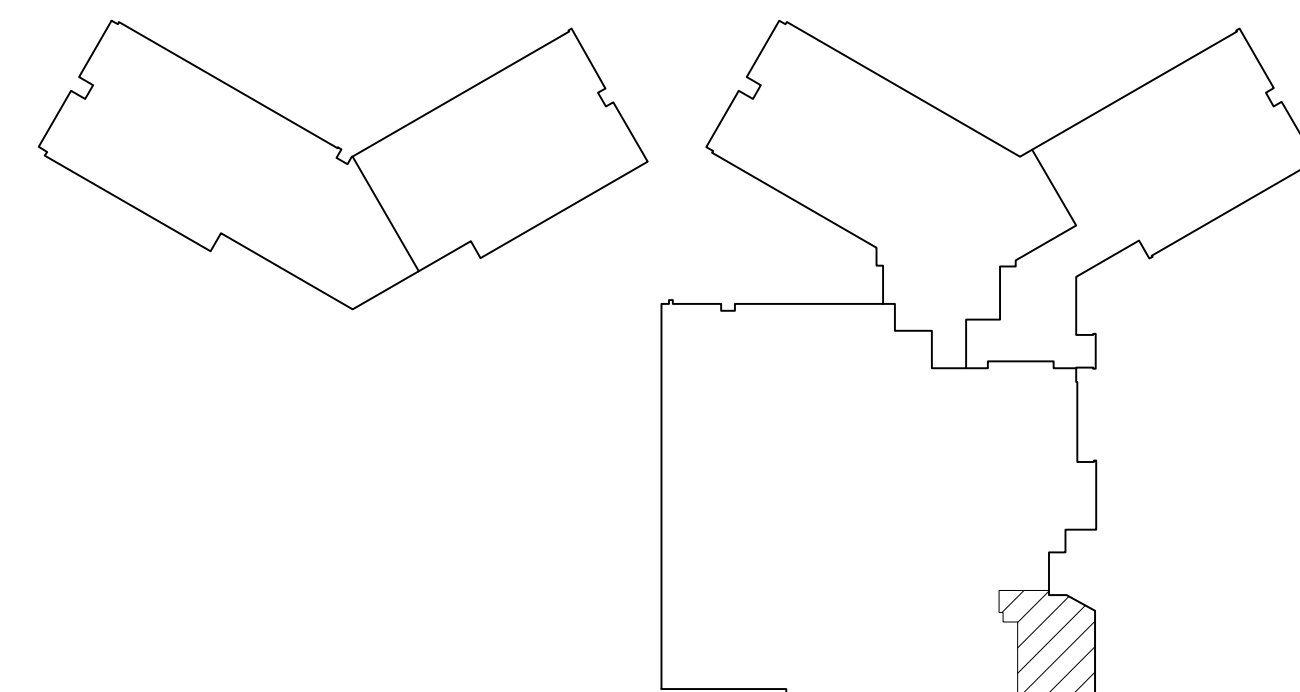
THE HVAC CONTRACTOR WILL NEED TO PROVIDE ALL REQUIRED ISOLATION VALVES AND TEMPORARILY HVAC CONNECTIONS NECESSARY TO KEEP THE EXISTING HEATING/COOLING SYSTEMS FULLY OPERATIONAL WITHIN THE OCCUPIED PORTIONS OF THE BUILDING THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.

### DRAWING NOTES:

1. REFER TO DRAWING H-4 FOR GENERAL PROJECT NOTES.
2. PROVIDE REQUIRED SERVICE CLEARANCES FOR ALL EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. COORDINATE AND SCHEDULE ALL WORK IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND PHASING PLANS AS REQUIRED TO ACCOMMODATE PROJECT PHASING.
4. REFER TO PROJECT PHASING DRAWING AND SCHEDULE. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMMODATE PROJECT PHASING.
5. THE CONTRACTOR WILL PROVIDE ALL CUTTING, PATCHING AND BACKFILL REQUIRED FOR THEIR WORK.
6. HVAC CONTRACTOR SHALL PROVIDE MANUAL AIR VENTS AT ALL PIPING HIGH POINTS FOR BOTH THE HEATING WATER SYSTEM PIPING AND CHILLED WATER SYSTEM PIPING, TYPICAL THROUGHOUT THE ENTIRE PROJECT.
7. HVAC CONTRACTOR SHALL COORDINATE INSTALLED HEIGHT OF HVAC SYSTEM PIPING WITH ALL OTHER TRADES. BOTTOM OF AIR SEPARATOR MUST INSTALLED A MINIMUM OF 8'-0" ABOVE FINISHED FLOOR. PROVIDE OFFSETS, RISES AND DROPS AS REQUIRED TO COMPLETE THE INSTALLATION AND TO RECONNECT TO EXISTING DUAL TEMPERATURE SYSTEM PIPING.
8. PROVIDE ALL REQUIRED TEMPORARY PIPING CONNECTIONS NEEDED TO KEEP EXISTING DUAL TEMPERATURE PIPING LOOP ACTIVE UNTIL FINAL PHASE OF CONSTRUCTION IS COMPLETE.
9. PRIOR TO COMPLETION OF FINAL PHASE OF CONSTRUCTION, ALL TEMPORARY PIPING CONNECTIONS AND ASSOCIATED INSULATION, VALVES HANGERS AND SUPPORTS MUST BE COMPLETELY REMOVED.
10. REFER TO CHILLED WATER SYSTEM SCHEMATIC PIPING DIAGRAM SHOWN ON DWG. H-6 FOR REQUIRED PIPING ARRANGEMENT, SYSTEM COMPONENTS AND PIPE SIZES.
10. REFER TO HOT WATER SYSTEM SCHEMATIC PIPING DIAGRAM SHOWN ON DWG. H-6 FOR REQUIRED PIPING ARRANGEMENT, SYSTEM COMPONENTS AND PIPE SIZES.

### KEYED DRAWING NOTES:

1. EXTEND EXISTING CONCRETE EQUIPMENT PAD, PROVIDE 1/2" DOWELS ON 12" CENTERS ON VERTICAL FACE OF EXISTING PAD WHERE NEW AND EXISTING PADS MEET. SLAB REINFORCING SHALL BE PLACED IN HOLES DRILLED INTO FLOOR SLAB AND EPOXIED IN PLACE. EXTEND PAD SO ITS 4" LARGER THAN PROVIDED EQUIPMENT AS MEASURED ON ALL SIDES.
2. CONTRACTOR MUST POSITION BOILERS AND INSTALL PIPING AND BREECING AS REQUIRED TO MAINTAIN A MINIMUM OF 30" CLEARANCE AROUND ALL APPLIANCEANCES. INSTALLATION OF BOILERS AND ASSOCIATED EQUIPMENT SHALL MEET REQUIREMENTS OF ALL APPLICABLE CODES. PROVIDE MINIMUM SERVICE CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURERS.
3. INDIVIDUAL BOILER COMBUSTION AIR INTAKE BREECING TO BE 8" I.D., EXTEND THRU ROOF AND TERMINATE AT MINIMUM OF 3'-6" ABOVE FINISHED ROOF WITH AN 180° TURNED DOWN ELBOW, REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
4. INDIVIDUAL BOILER EXHAUST BREECING TO BE 8" I.D., EXTEND THRU ROOF AND TERMINATE AT MINIMUM OF 7'-0" ABOVE FINISHED ROOF WITH A STORM CAP. REFER TO BOILER BREECING STACK INSTALLATION DETAIL 9 SHOWN ON DWG. H-4, REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
5. PROVIDE CONDENSATE TRAP, NEUTRALIZATION KIT AND ASSOCIATED CONDENSATE PIPING AS REQUIRED IN MANUFACTURES WRITTEN INSTRUCTIONS. PIPE CONDENSATE WASTE DISCHARGE TO NEAREST FLOOR DRAIN AND TERMINATE WITH 2" AIR GAP.
6. PROVIDE A CONCRETE EQUIPMENT PAD UNDER HVAC EQUIPMENT, PAD SHALL BE 4" LARGER THAN PROVIDED EQUIPMENT AS MEASURED ON ALL SIDES.
7. ELECTROMAGNETIC FLOW METER.
8. PROVIDE GLYCOL FEED PUMP SET, NEPTUNE MODEL G-50-1A, OR EQUAL 50 GALLON TANK, (1) 1.5 GPM PUMP AT 100 PSI, 1/3 HP, 120-1-60, AND CONTROL PANEL WITH LOW LEVEL LIGHT AND ALARM, EXTEND AND CONNECT LOW ALARM INTO BMS AND DISPLAY LOW LEVEL ALARM CONDITION ON OPERATOR'S WORKSTATION WHEN EVER CONDITION OCCURS.
9. PROVIDE EMERGENCY SHUT-OFF SWITCH AND INTERLOCK WITH EACH BOILER.
10. PROVIDE DDC ACTUATOR ON EXISTING OUTSIDE AIR INTAKE DAMPER ASSEMBLY AND ASSOCIATED CONTROLS REQUIRED TO INTERLOCK WITH EXHAUST FAN EF-7, MOD SHALL OPEN FULLY WHEN EF-7 ENERGIZES AND SHALL FULLY CLOSE WHEN FAN IS DE-ENERGIZED.
11. REINSTALL SALVAGED UNIT HEATER IN LOCATION SHOWN, RECONNECT TO HWS AND HWR PIPING MAINS AND PROVIDE NEW ISOLATION VALVES AND CONTROLS. REFER TO UNIT HEATER PIPING DETAIL, SHOWN ON DWG. H-4.
12. 5 GAL. BYPASS CHEMICAL FILTER/FEEDER
13. EXTEND FULL SIZE DUCT DROP (EQUAL TO FAN INLET SIZE) DOWN FROM EXHAUST FAN TO 1'-4" BELOW ROOF DECK, PROVIDE 1/2" x 1/2" STAINLESS STEEL SCREEN OVER DUCT OPENING AND SECURE IN PLACE.



KEY PLAN  
NO SCALE