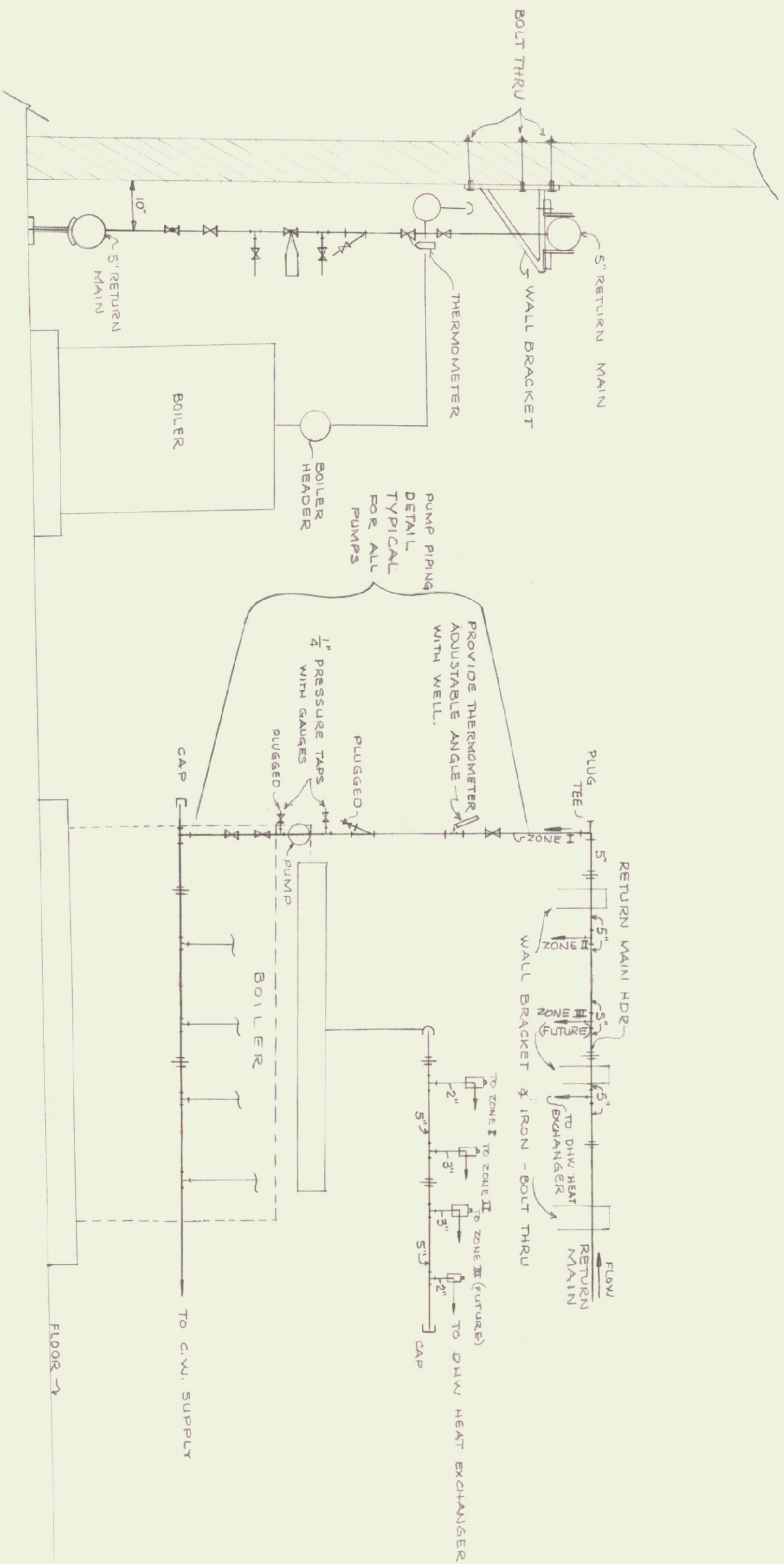
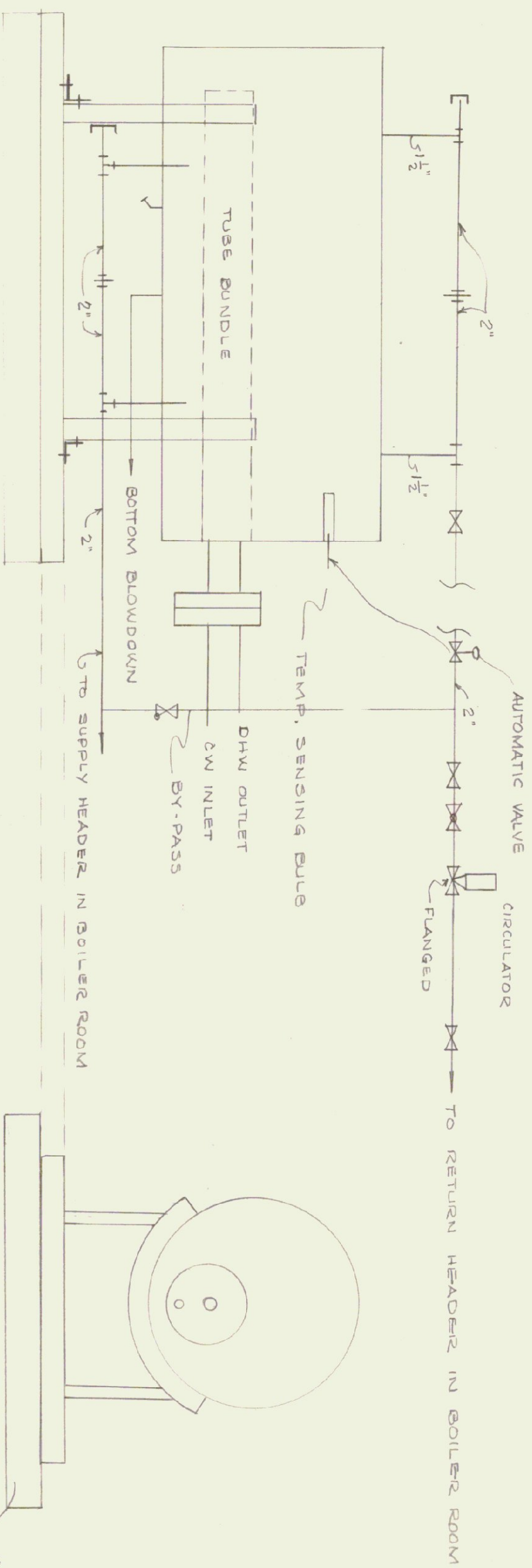




ELEVATION
NOT TO SCALE



END VIEW
4" HIGH CONC.
BY P & H CONTRACTOR
RUBBED FINISH.

A.S.M.E. CONSTRUCTED DOMESTIC HOT WATER HEAT EXCHANGER.

NOT TO SCALE

D.H.W. HEAT EXCHANGER NOTE

PATTERSON - KELLEY
COMPACT SERIES - 400.
SEE SPECIFICATIONS

NOTES

1. ZONE I : INCLUDES GENERAL OFFICE, DISTRICT ENGINEER'S OFFICE, ASSISTANT DISTRICT ENGINEER'S OFFICE, SHOP OFFICE, SHOP STOCKROOM, OFFICE STORAGE ROOM, WOMEN'S AND MEN'S TOILETS, CLOSET, LOCKER ROOM, AND CORRIDOR.
2. ZONE II : MAINTENANCE SHOP.
3. ZONE III : GARAGE STORAGE AREA.
4. GENERAL CONSTRUCTION OF BOILER ROOM WALLS, DOORS & CHIMNEY BY OTHERS.
5. HEATING AND PLUMBING CONTRACTOR SHALL MAINTAIN EXISTING SYSTEM OPERATIONAL UNTIL NEW SYSTEM IS OPERATIONAL, AT WHICH TIME, THROUGH SIMPLE VALVING AND CAPPING, HE SHALL ISOLATE SYSTEM. BUILDING SHALL NOT BE WITHOUT HEAT AT ANY TIME. THIS SHALL BE HEATING AND PLUMBING CONTRACTOR'S RESPONSIBILITY.
6. HEATING AND PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING BOILER, PIPING, CONTROLS, WIRING AND CONDUIT, INFRARED GAS HEATERS, GAS PIPING (REQUIRED) BACK TO MAIN GARAGE STORAGE AREA.
7. SEE HEATING EQUIPMENT SCHEDULE, SHEET 2 OF 3, FOR NEW BASEBOARD RADIATION, UNIT HEATERS, AND PUMPS.
8. NEW ZONE VALVES SHALL BE PENN V-70AA-2. THERMOSTAT BY PENN.

GENERAL NOTES

1. CONTRACTOR SHALL SUBMIT DATA AND CUTS OF EQUIPMENT FOR APPROVAL PRIOR TO ORDERING MATERIAL.
2. ALL PIPING IS SCHEMATIC, CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
3. MOTORS ON ALL NEW UNIT HEATERS SHALL BE TOTALLY ENCLOSED CONSTRUCTION WITH PERMANENTLY LUBRICATED BEARINGS AND BUILT-IN THERMAL OVERLOAD PROTECTION.
4. HEATING CONTRACTOR SHALL PROVIDE SERVICE SWITCH AT EACH UNIT HEATER.
5. SEE SITE PLAN FOR LOCATION OF BURIED OIL TANK. HEATING AND PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A TANK GAUGE IN BOILER ROOM - GAUGE TO READ DIRECTLY IN GALLONS. MOUNT ON PAINTED 3/4" PLYWOOD.
6. ALL WATER SUPPLY PIPING ABOVE FLOOR SLAB ELEVATION SHALL BE INSULATED AND PAINTED.
7. ALL HEATING PIPING IN THE BOILER ROOM, MAIN BUILDING, AND THROUGH SLEEVES SHALL BE INSULATED AND PAINTED.
8. EACH CIRCULATING PUMP SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. EACH PUMP SHALL BE WIRED THROUGH MAGNETIC STARTERS WITH DOUBLE SET OF CONTACTS.
9. GARAGE AND MECHANICS WORK AREA :
10. ALL PUMPS SHALL BE RATED TO OPERATE ON 120/240 V/1 PH/3W UNLESS OTHERWISE SPECIFIED OR INDICATED.
11. ALL ELECTRICAL PANELS, MAGNETIC STARTERS, THERMOSTATS, TANK GAUGE, ETC., SHALL BE MOUNTED ON FULLY-PAINTED, 5/2" PLYWOOD BD. 1/2" OFF MASONRY WALLS.
12. PROVIDE ONE OIL BURNER SAFETY SWITCH OUTSIDE OF BOILER ROOM DOOR. PROVIDE ONE OIL BURNER SAFETY SWITCH AT MAIN ENTRANCE OF MAIN GARAGE BUILDING AT MAIN DOOR, SOUTH SIDE OF GARAGE.
13. PROVIDE BOILER ROOM FLOOR DRAIN (4") WITH CAST IRON PIPING TO NEW DRY WELL - FITCH TO DRYWELL. PROVIDE 4 DIA. BY 5 DEEP DRYWELL WITH COVER, FULL OUTSIDE PERIMETER WITH 2" STOVE, 24" WIDE.
14. EACH CONCRETE BOILER AND DOMESTIC HOT WATER HEAT EXCHANGER PAD SHALL BE LEVEL. (BY PLUMBING AND HEATING CONTRACTOR)
15. PIPING FOR FUEL OIL FILL AND VENT SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-120 WITH MALLEABLE IRON SCREWED FITTINGS. PIPING FOR SUPPLY AND RETURN LINES BETWEEN BURNER AND TANK SHALL BE CONTINUOUS COPPER EACH INDEPENDENTLY RUNNING IN 2-2" PVC. IN BOILER ROOM PROTECT COPPER LINES RUNNING ON FLOOR WITH STEEL CHANNEL IRON.
16. NO PENETRATIONS OR ANCHORAGES TO BE MADE TO AND THROUGH THE ROOF METAL DECK.

STATE OF VERMONT
STATE BUILDINGS DIVISION
DEPARTMENT OF ADMINISTRATION
MONTPELIER.
VERMONT

HEATING SYSTEM RENOVATIONS
GARAGE AND OFFICE BUILDING
VERMONT DEPARTMENT OF HIGHWAYS
BENNINGTON, VERMONT - DIST. # 1

DATE:	DESIGNED BY:	DWG. NO.
6 - 76	4. Mastro	3 OF 3
DRAWN BY:	APPROVED BY:	
P.C.W.	E.W. Wheeler	