

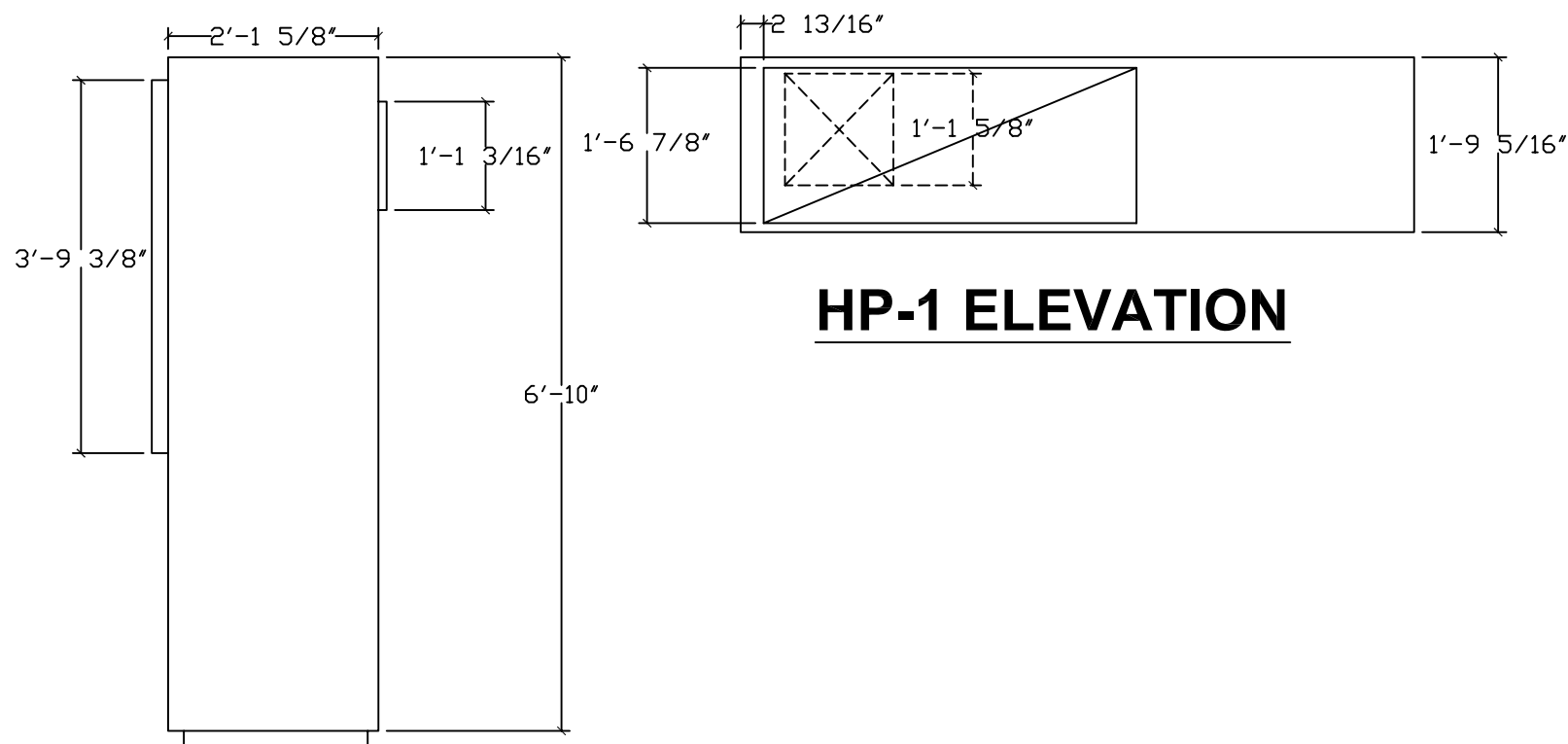
HEAT PUMP SCHEDULE

UNIT	SENSIBLE COOLING CAPACITIES	HEATING CAPACITIES	AIR FLOWS,CFM	FAN MOTOR HP	WATER FLOWS,GPM	AUX. ELECTRIC HEATER (15 KW)	UNIT MODEL	UNIT MANUFACTURER	VOLTAGE/AMPS (NOT INCL. AUX. HEATER)	FLOW CENTER
HP-1	68,200 BTUH/52,400 BTUH	48,000 BTUH/36,800 BTUH	1800/1500	1.0	16.0/14.0	36,900 BTUH/75.0 MIN. CIRC. AMPS	NDH064A141CSL	WATERFURNACE	208/230-1-60/44.8 MIN. CIRC. AMPS	FC2FPT

1. CAPACITIES ARE LISTED FOR HIGH AND LOW SPEED.
2. HP-1 INCLUDES A DESUPERHEATER.

NOTES

1. INSULATE ALL NEW LINED AND UNLINED SUPPLY AND RETURN DUCTWORK WITH 2" FSK DUCT WRAP.
2. DESIGN ALL DUCTWORK AT 1" W.G. AND SEAL PER SMACNA CLASS B SEALING STANDARDS.
3. INSTALL HP-1 TO ALLOW ADEQUATE SERVICE ACCESS AS RECOMMENDED BY THE MANUFACTURER.
4. THE HEAT PUMP WILL BE CONTROLLED BY A WATERFURNACE INTELLIZONE ZONE CONTROL SYSTEM.
5. PIPE THE HP-1 DESUPERHEATER TO THE WATER HEATER DOMESTIC WATER PIPING.
6. SOUND TRANSMISSION IS A CONCERN SO LINE AND ISOLATE DUCT WHEREVER POSSIBLE.
7. SEE THE BUILDING PENETRATION DETAIL ON THIS DRAWING.

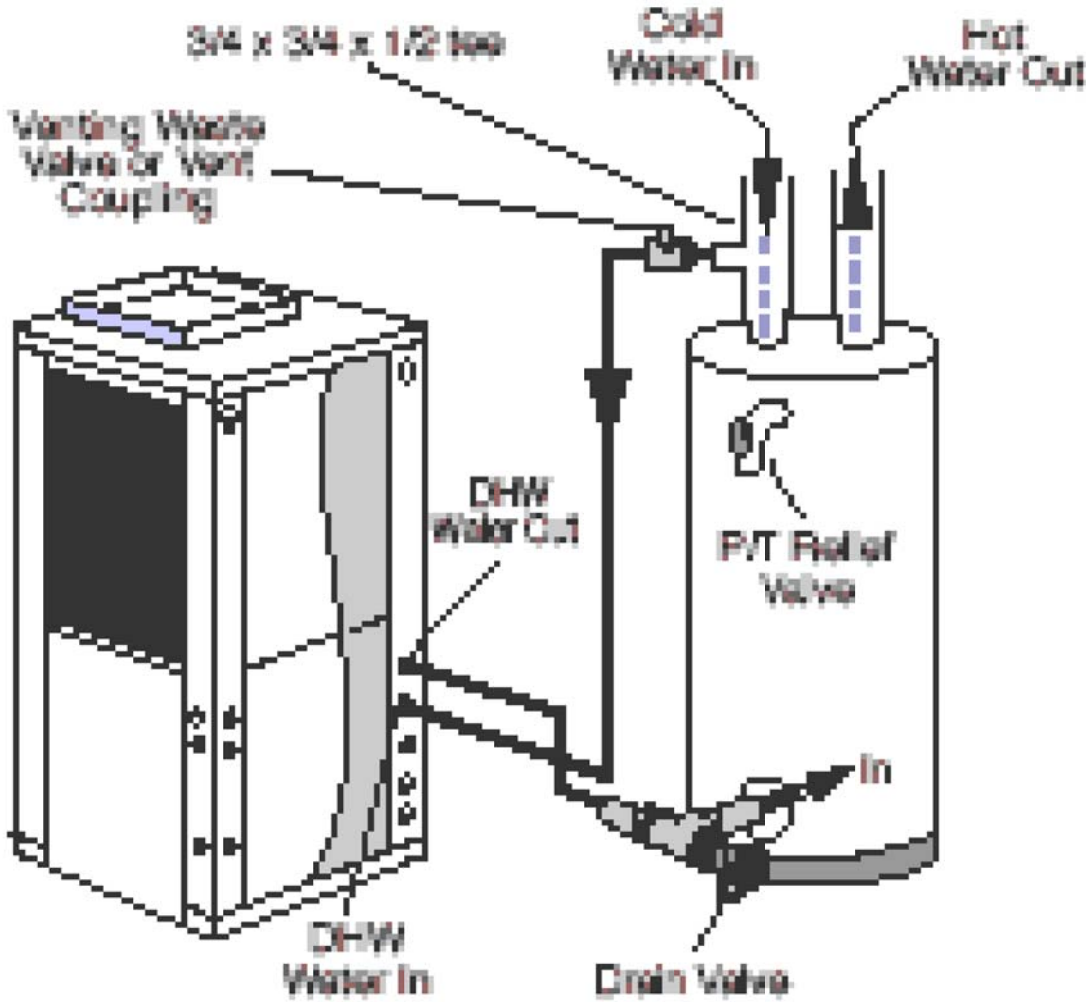


HP-1 ELEVATION

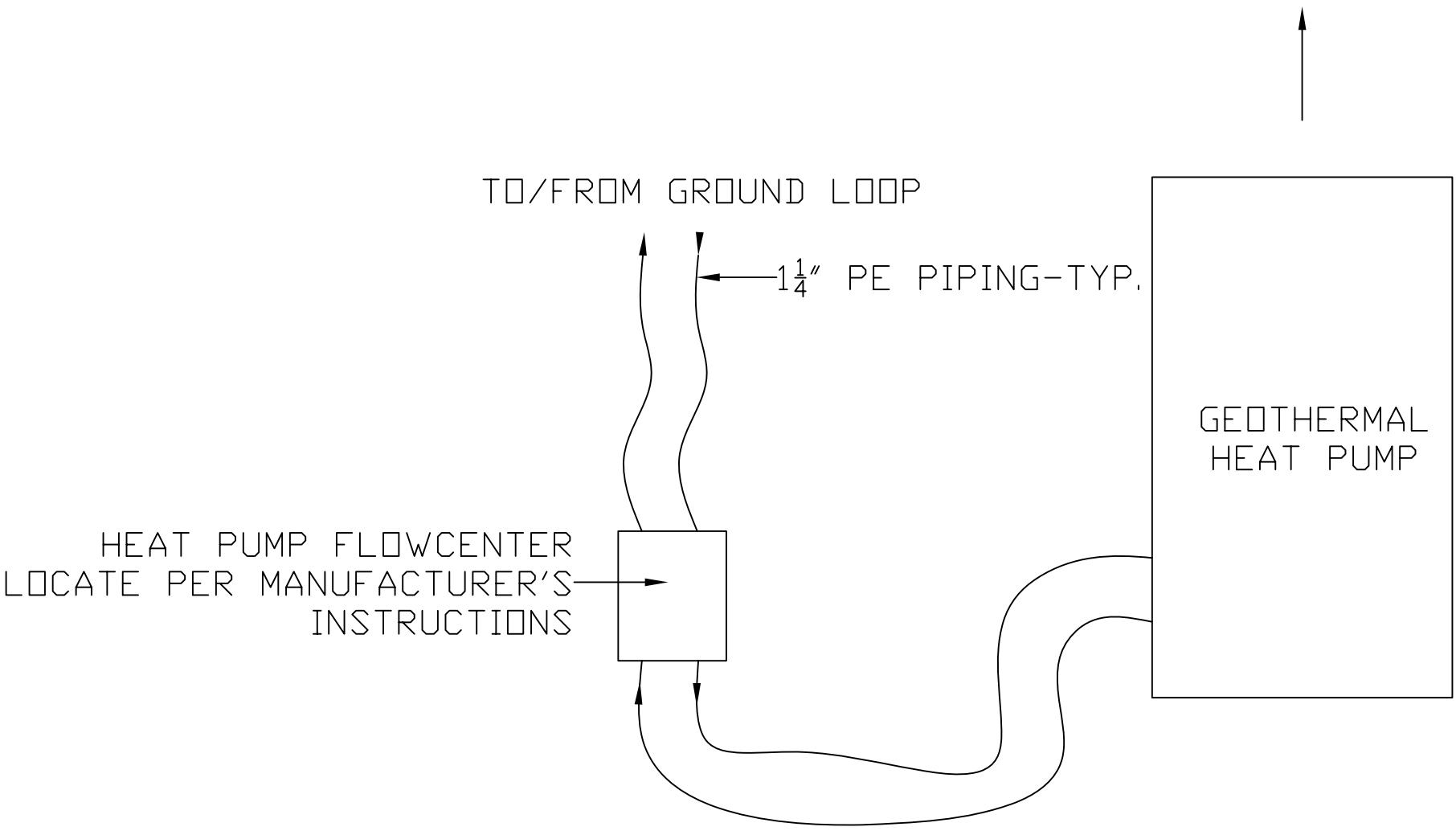
HP-1 PLAN

HP-1 DIMENSIONS

Figure 11: Typical Desuperheater Installation

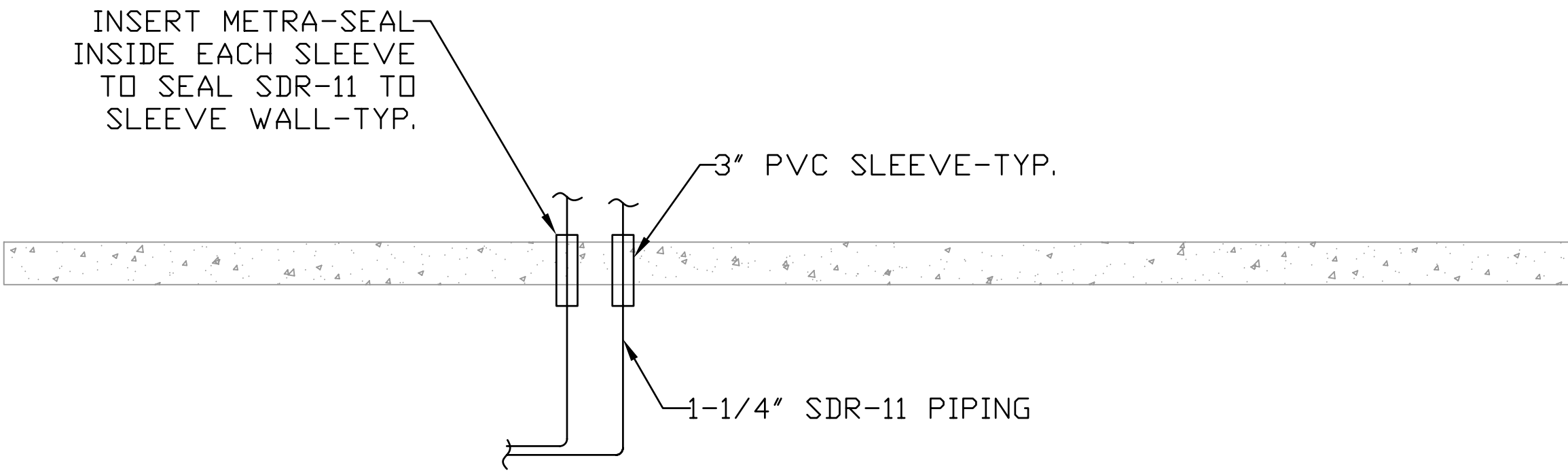


HP-1 DESUPERHEATER PIPING SCHEMATIC



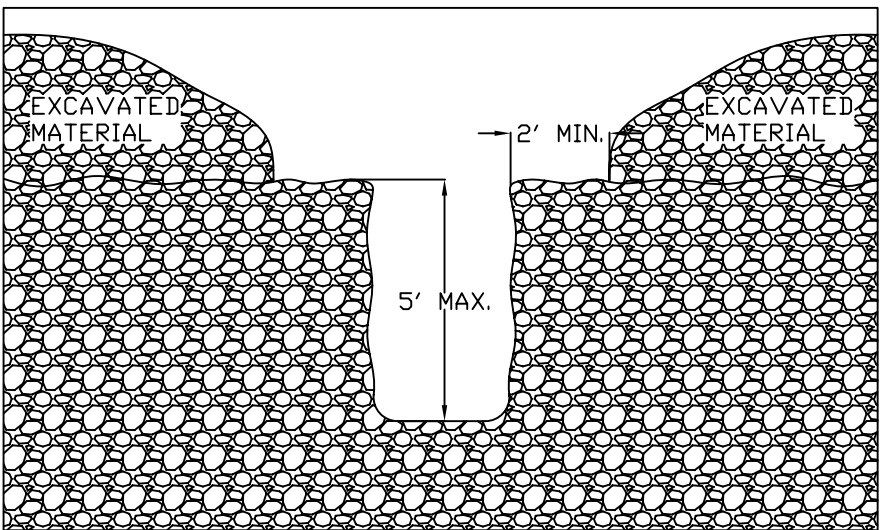
EXTERIOR GEOTHERMAL LOOP PIPING

1. LAY PE PIPING IN SAND FILL. BACKFILL WITH SAND TO COVER PIPING.
2. AFTER STEP #1, COVER ASSEMBLY WITH 2" BLUE BOARD INSULATION.
3. BACKFILL OVER INSULATION WITH SAND TO AVOID DAMAGE TO INSULATION.



HP-1 BORE/PIPING PLAN

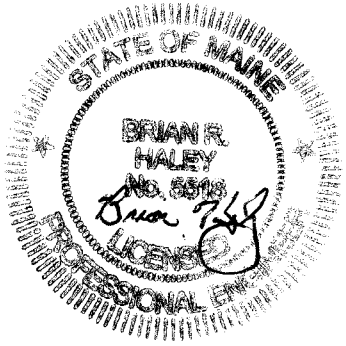
NTS



DAILY REQUIREMENTS

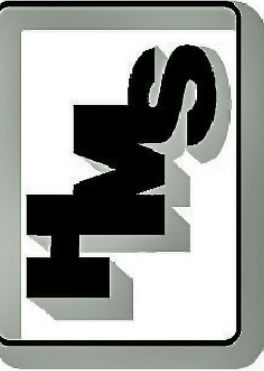
1. EVALUATE SITE AND SOIL CONDITIONS PRIOR TO THE START OF WORK.
2. TEST TRENCH ATMOSPHERE FOR LOW OXYGEN AND HAZARDOUS FUMES OR TOXIC GASES PRIOR TO THE START OF WORK EACH DAY.
3. NO WORK SHALL BE PERFORMED IF THE TRENCH HAS ACCUMULATED WATER UNLESS SPECIAL PRECAUTIONS HAVE BEEN TAKEN AGAINST THE HAZARDS POSED.
4. HARDHATS MUST BE WORN DURING EXCAVATOR OPERATION.
5. SINGLE SECTION LADDER (MAX. LATERAL TRAVEL TO LADDER IS 25').

TRENCHING/EXCAVATION SAFETY



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HVAC

M-1