

DETAIL
TYPICAL BASEBOARD RADIATION
VENT TO BE PROVIDED AT EACH HIGH POINT
N.T.S.

NOTE: PROVIDE BALANCING VALVES TO MAIN LINE STOP
LINE FROM EACH TAKE OFF FOR UNID. RAD. (TYPICAL)

PLAN VIEW
SCALE 1/8" = 1 FT.

TANK NOTES

1. TANK SHALL BE INSULATED & INSTALLED BY OTHERS.
2. HEATING & PUMPS CONTRACTORS SHALL PROVIDE TANK FILL, VENT, SUPPLY & RETURN LINE, SAVERS, ETC., FOR CONTRACTOR INSTALLATION.
3. HEATING & PUMPS CONTRACTORS SHALL PROVIDE GAUGES WITH 4" FLUSH & FILL WATERIGHT FILL EX. WATERED UTILITIES TYPE "W".
4. PROVIDE 4" ELBOW SWING IN ALL FILL & VENT LINES AT TANK.
5. PROVIDE CONTINUOUS CONVEYER UNITS RUN IN 2"-2" PVC FOR FUEL OIL SUPPLY & RETURN.
6. GAUGE CAPILLARY TO RUN IN 1/2" PVC BETWEEN TANK & BUILDING - ALSO WITHIN BUILDING TO GAUGE CAPILLARY TO BE FULLY PROTECTED FROM PHYSICAL ABUSE.

ZONE II
ZONE I

R-2 5 L.F. @ 900 MBH/FT. = 4.5 MBH
R-3 5 L.F. @ 900 MBH/FT. = 4.5 MBH
END OF MAIN BY PASS
TO EXISTING MAINS
IN THIS AREA.

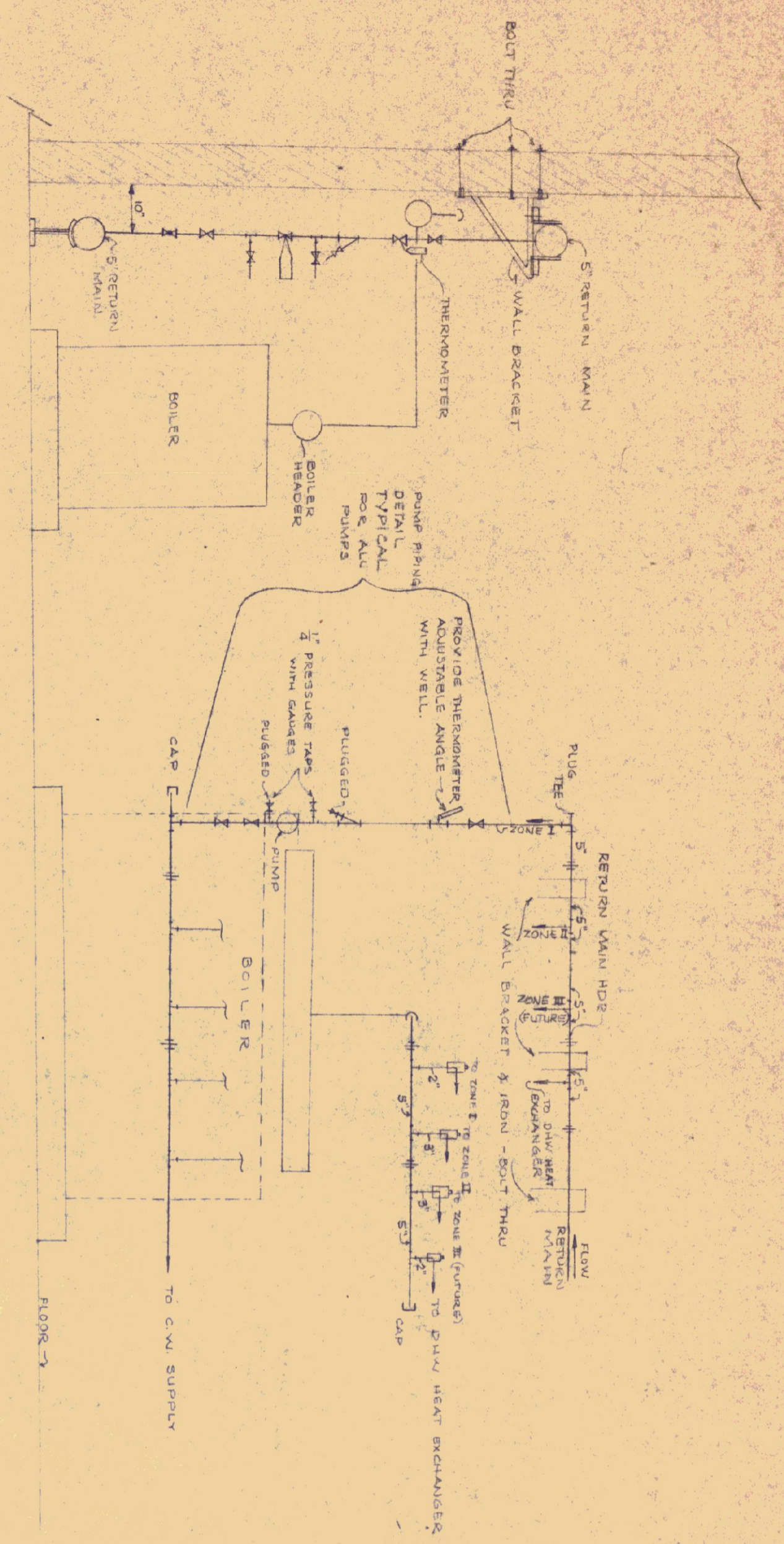
0-ZONE VALVE (NEW)

SIGNATURE: *Calvin...* DATE: 7/1/76
STATE OF VERMONT
DESIGNED BY: *Calvin...*
DRAWN BY: *...*

DATE: 6-1-76	DESIGNED BY: <i>Calvin...</i>	DWG. NO.:
DRAWN BY: <i>...</i>	APPROVED BY: <i>...</i>	OF 2

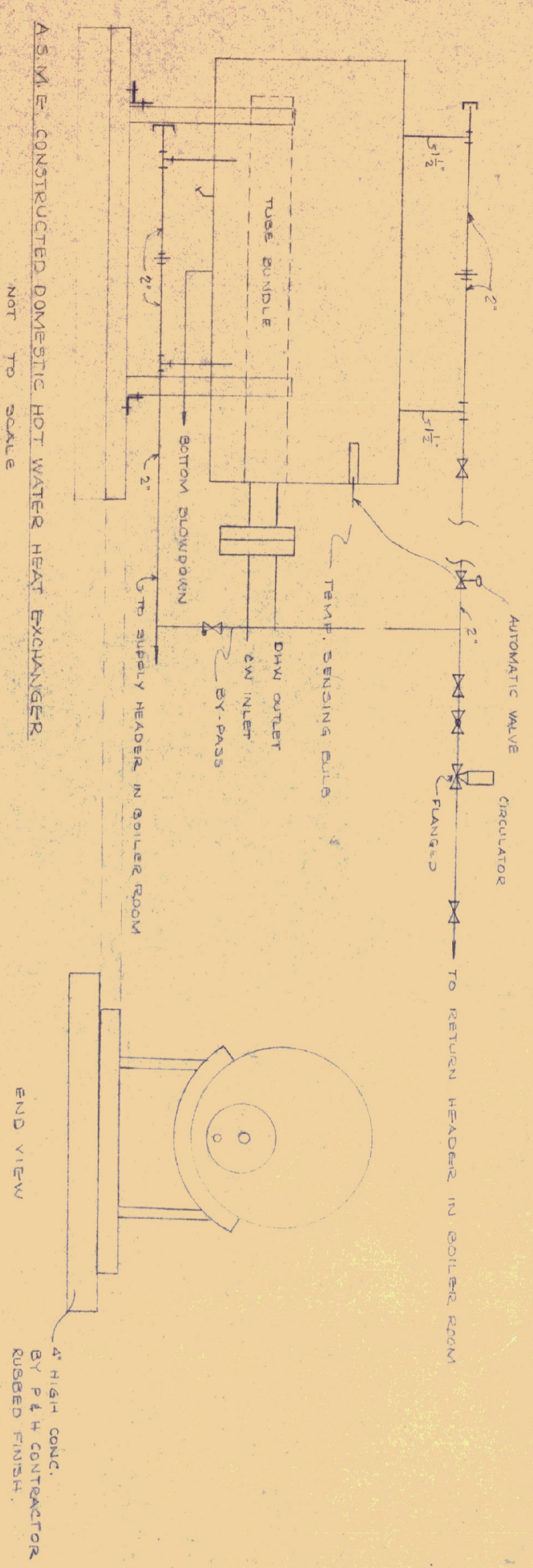
STATE OF VERMONT
STATE BUILDINGS DIVISION
DEPARTMENT OF ADMINISTRATION
MONTPELIER, VERMONT

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



ELEVATION
NOT TO SCALE

FLOOR 1



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 STORAGE ROOM, 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 WALKING AND CAMPING, HE SHALL TOLATE 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 (REQUIRE) BACK TO MAIN GARAGE STORAGE AREA.
7. SEE HEATING EQUIPMENT SCHEDULE, SHEET 2 OF 5, FOR NEW BASEBOARD RADIATION, UNIT HEATERS, AND PUMPS.
8. NEW ZONE VALVES SHALL BE PENN V-700A-V2, 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 COLLIER ROOM - GAUGE TO READ DIRECTLY IN GALLONS. MOTOR OIL PAINTED 5/4\"/>
- 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 CLEANS SHALL BE INSULATED AND PAINTED.
- 8. EACH CIRCULATING PUMP SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. EACH PUMP SHALL BE WIRED THROUGH MAGNETIC SWITCHES WITH DOUBLE SET OF CONTACTS.
- 9. GARAGE AND MECHANICAL WORK AREA:
- 10. EACH UNIT SHALL HAVE AN AQUASTAT CONTROL TO PREVENT THE PUMP FROM HEATING BELOW A PREDETERMINED MIN. TEMPERATURE TO PREVENT COOL AIR CIRCULATION WITHIN THE BUILDING. THERMOSTATS SHALL SWITCH FANS AND PUMPS OFF WHEN HEAT DEMAND IS SATISFIED.
- 11. ALL PUMPS SHALL BE RATED TO OPERATE ON 120/240 V/1 PH/3W UNLESS OTHERWISE SPECIFIED OR INDICATED.
- 12. ALL ELECTRICAL PANELS, MAGNETIC SWITCHES, THERMOSTATS, TANK GAUGE, ETC., SHALL BE MOUNTED ON FULLY-PAINTED, 5/4\"/>
- 13. 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.
- 14. PROVIDE BOILER ROOM FLOOR DRAIN (4\"/>
- 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\"/>
- 16. NO PENETRATIONS OR ANCHORS TO BE MADE TO AND THROUGH THE ROOF METAL DECK.

STATE OF VERMONT STATE BUILDINGS DIVISION DEPARTMENT OF ADMINISTRATION VERMONT	
HEATING SYSTEM RENOVATIONS GARAGE AND OFFICE BUILDING VERMONT DEPARTMENT OF HIGHWAYS BENNINGTON, VERMONT - DIST. # 1	
DATE 6-76	DESIGNED BY S. Marino
DRAWN BY D.F.W.	APPROVED BY E. M. Wood
	DWG. NO. 2 OF 5