

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

CEILING
TRAFFIC SHOP - HIGHWAY DEPARTMENT
BERLIN, VERMONT

DATE: 1 DEC 71
DESIGNED BY: STJ
DRAWN BY: STJ
APPROVED BY: STJ
DWG. NO.: 1 OF 1

NOTE - GEN CONTRACTOR
 PROVIDE FINISH GRADING AROUND BOILER HOUSE UNDERGROUND STORAGE TANK AND ANY OTHER AREAS DISTURBED BY FROM DRAINING COULDS. CONTRACTOR SHALL GRADE STORAGE TANK TOWARD EXISTING BROOK.

GC
 PROVIDE CONCRETE PAD 3' LARGER THAN COMPRESSOR UNIT. ALL AROUND RELOCATE COMPRESSOR UNIT FROM MAIN HOLES. DISCONNECT EXISTING PIPING (GASPIPES, ETC. PAD TO BE 3" THICK MOUNT DISCONNECT ON 3/4" GID PLYWOOD PAINTED GRAY ALL AROUND. SIZE SUFFICIENT FOR CONTROLS

COMBUSTION AIR INTAKE
 SEE DETAIL DWG N-2
 SHEET 2 OF 2

FIN-TUBE RADIATION-GRU SUPPLY & RETURN PIPES SHALL BE 1/2" DIA. FIN-TUBE RADIATION SHALL HAVE FINES AND FINES SHALL BE CONTIGUOUS.

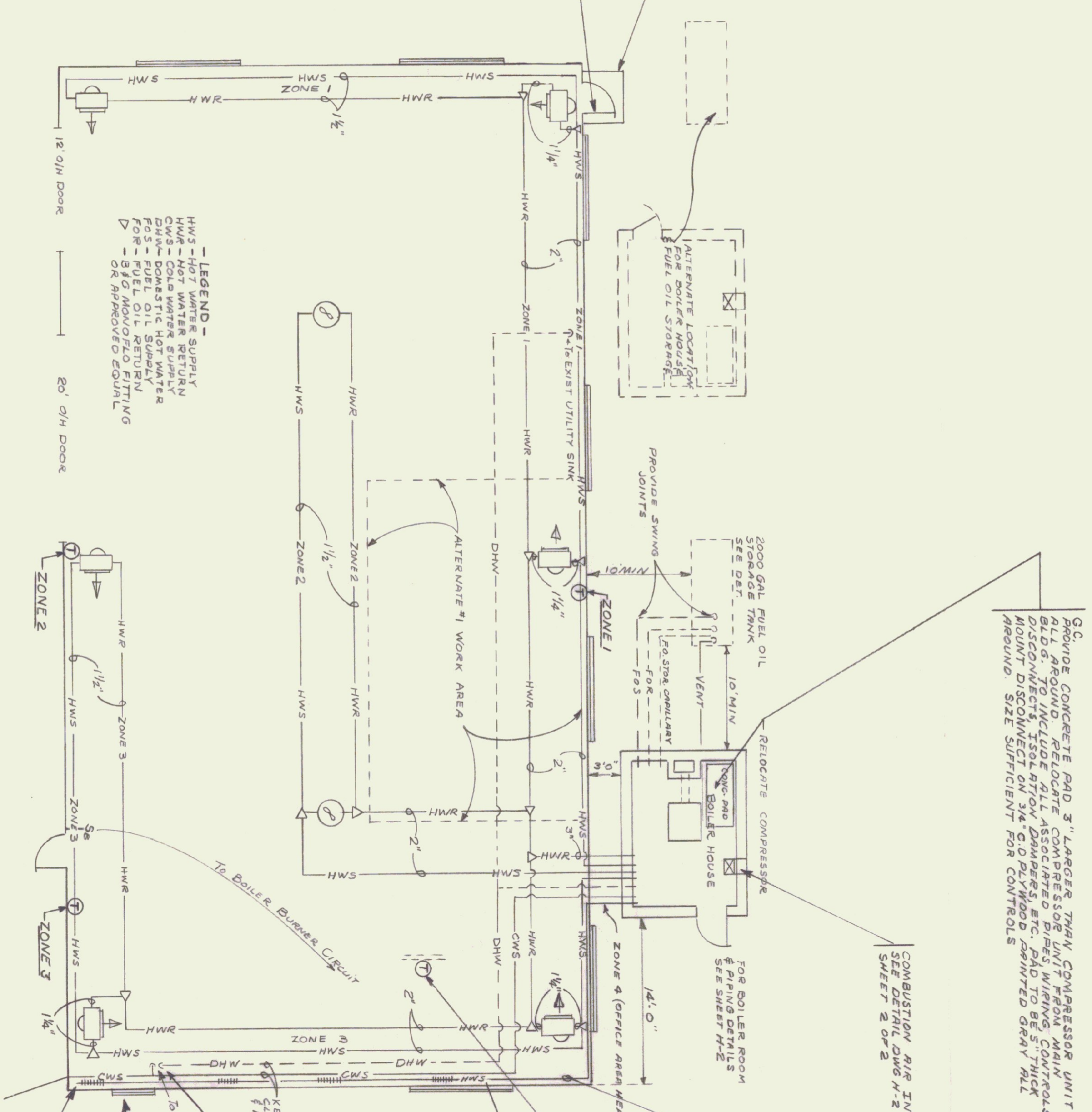
ZONE 4 THERMOSTAT TO BE PLACED ON PARTITION TV SHOP FOREMAN'S OFFICE.

CONTRACTOR SHALL CUT EXISTING WALLS AS NECESSARY FOR PROPER INSTALLATION OF FIN-TUBE RADIATION.

MAINTAIN EXISTING C.W.S. PIPES TO EXIST SERVICE SINK

CONTRACTOR SHALL REMOVE EXIST. H.W. HEATER AND APPURTENANCES. HEATER TO REMAIN THE PROPERTY OF OWNER.

PROVIDE MANUAL AIR VENT-ON END OF MAIN



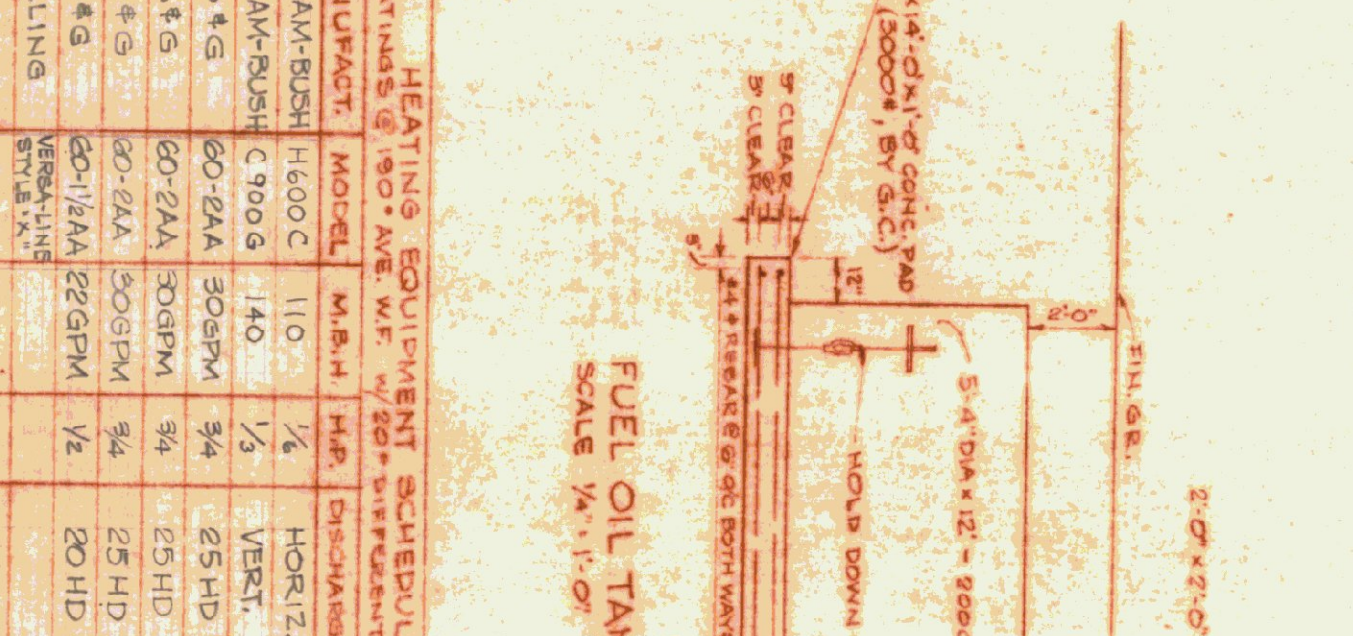
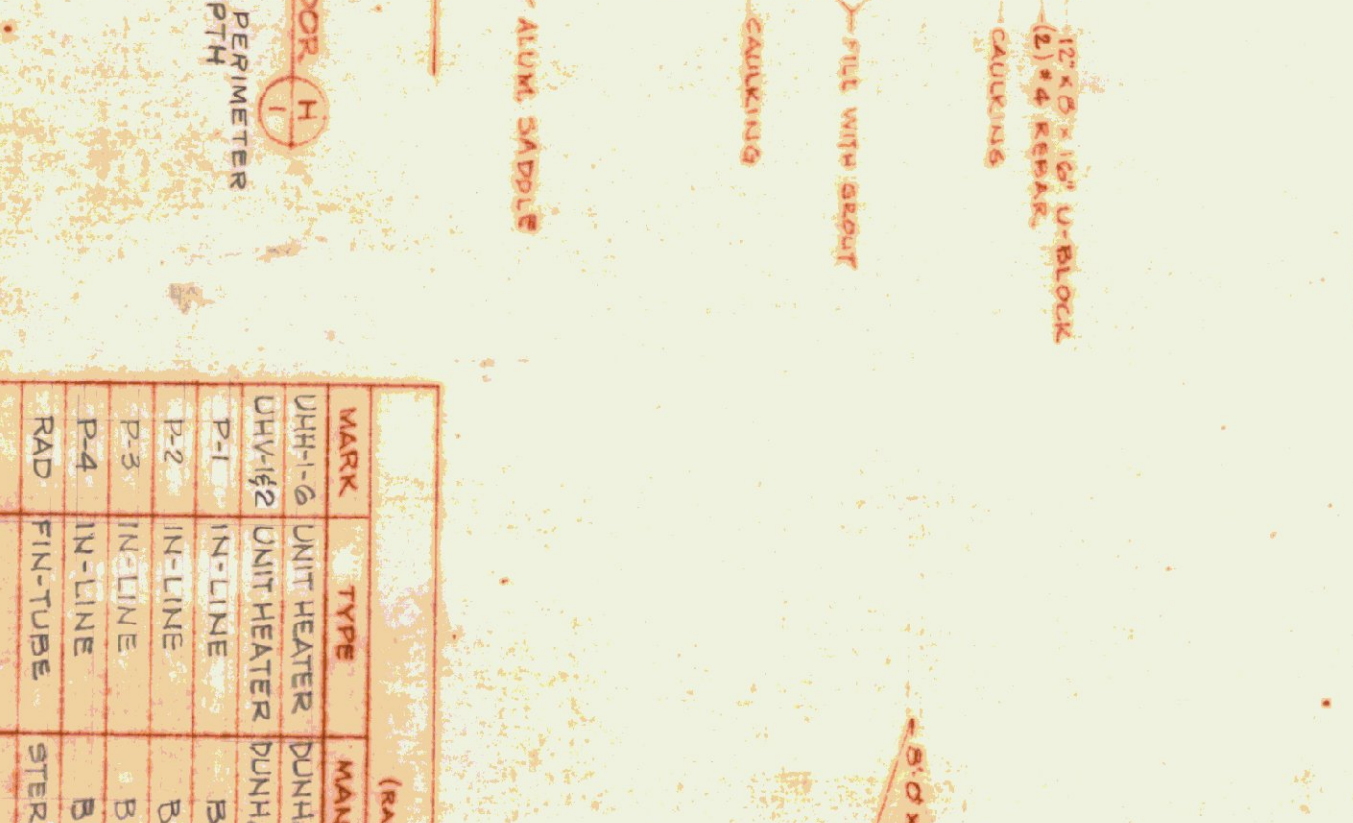
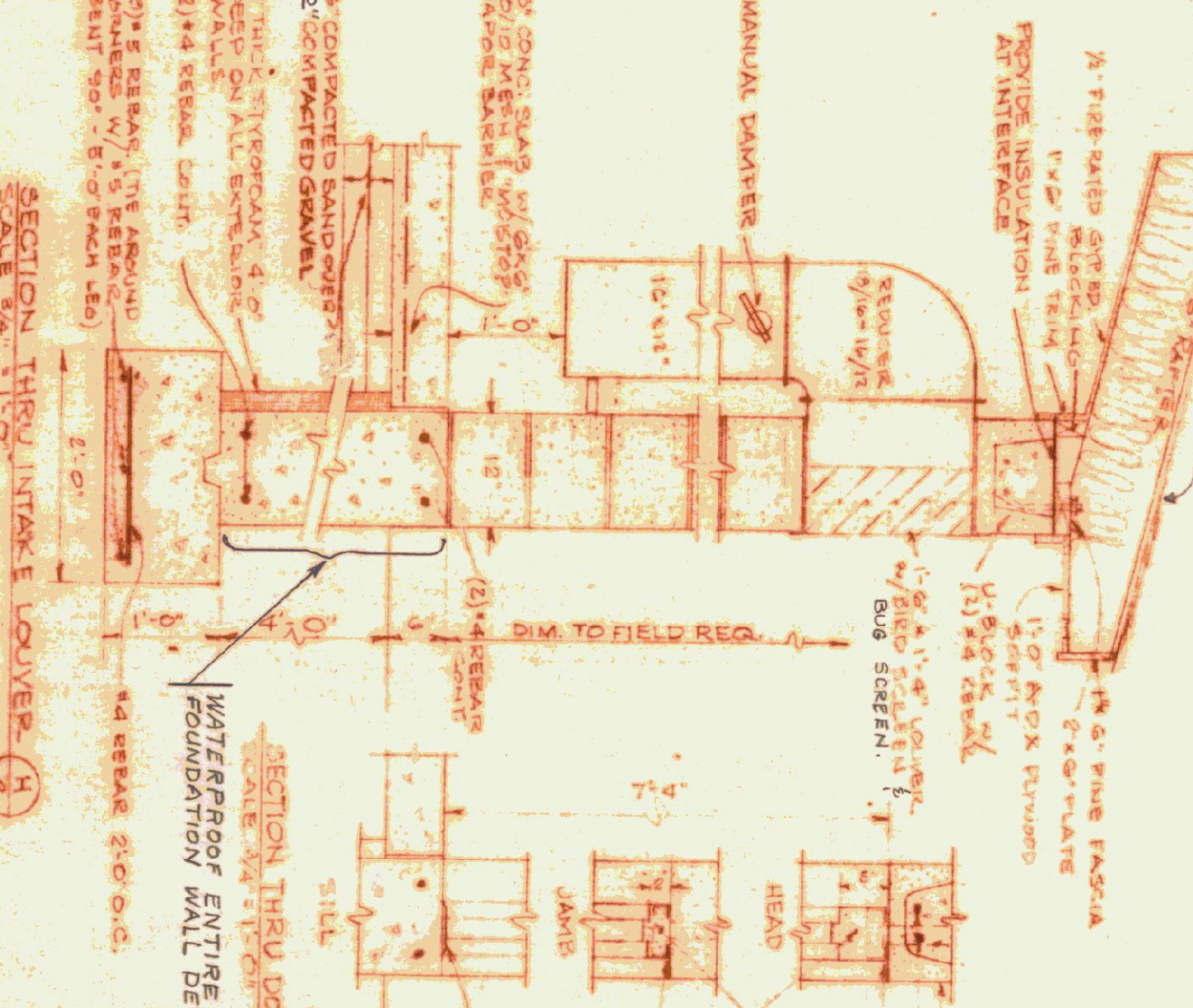
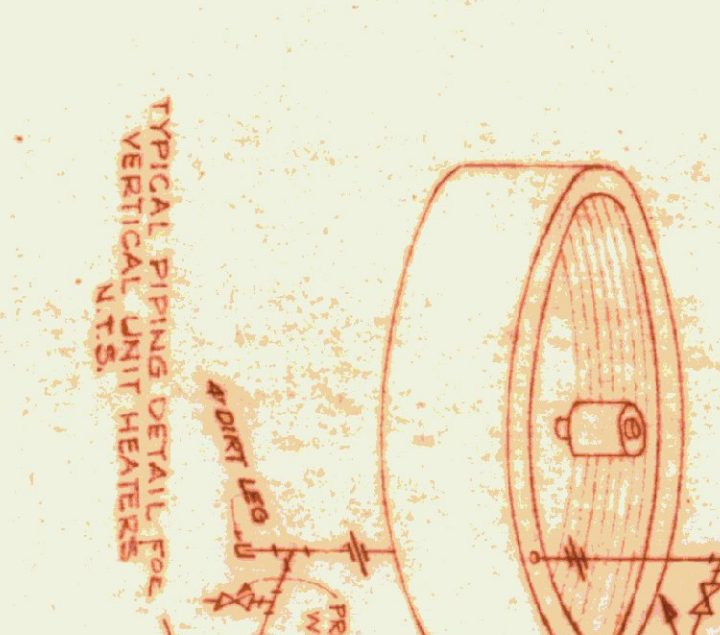
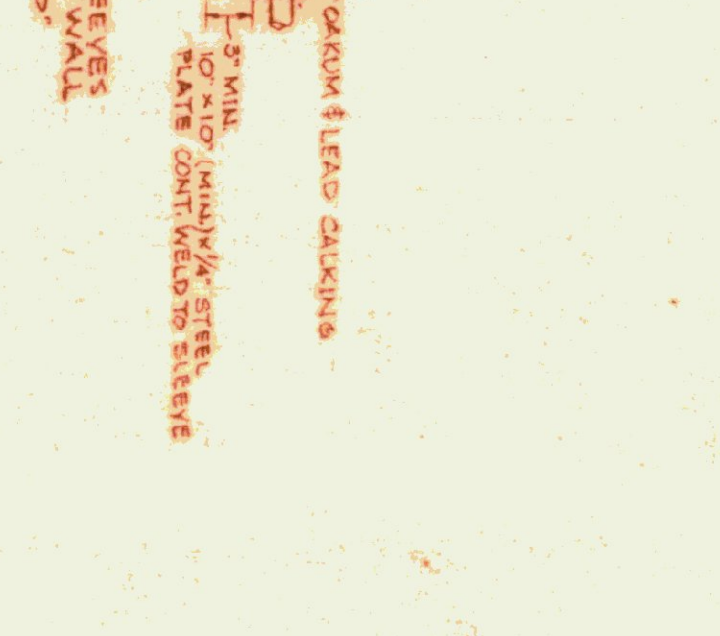
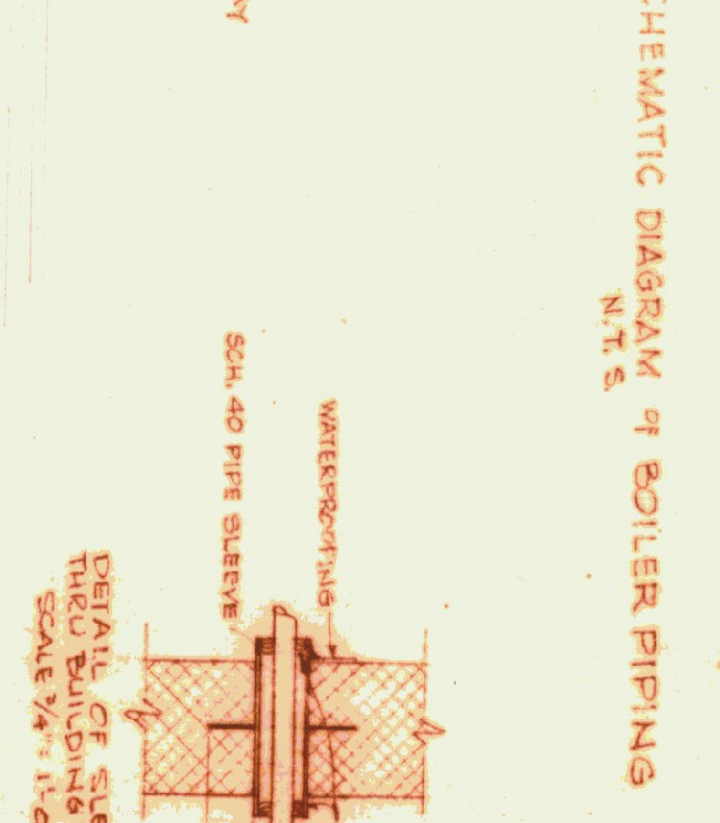
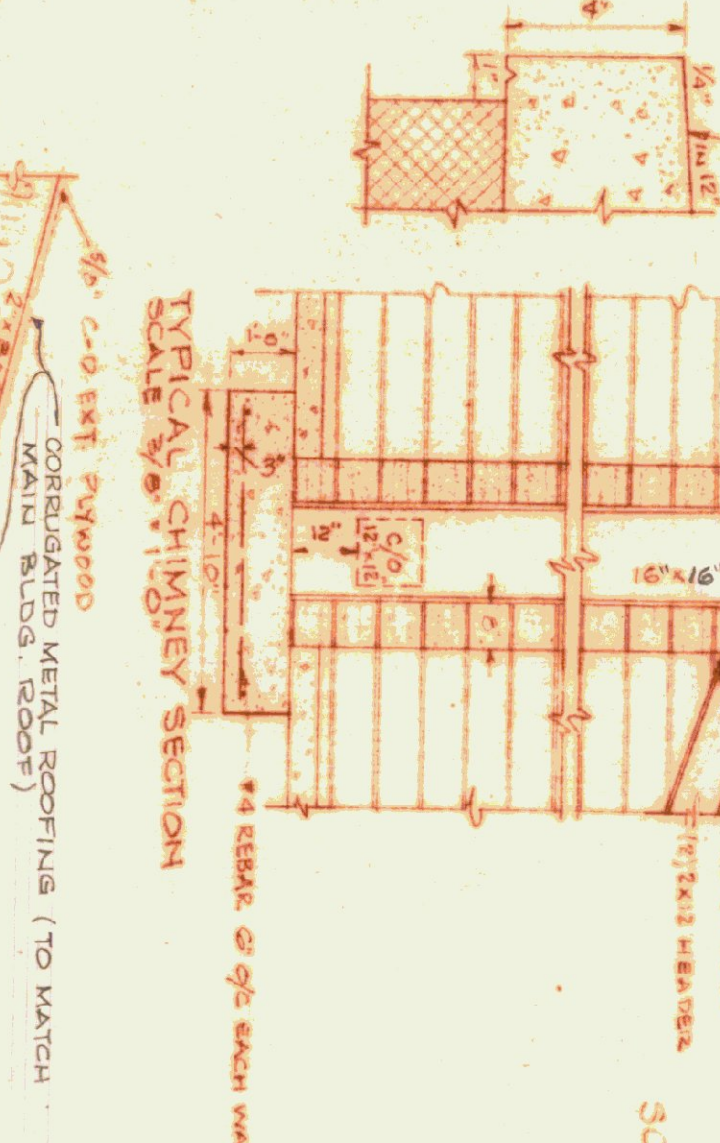
SCALE 1/8" = 1'-0"

NOTE - USE THIS HEATING PLAN FOR BASE BID ON HEATING

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

BERLIN, VT.
 TRAFFIC SHOP - DEPARTMENT OF HIGHWAYS
 HEATING PLAN

DATE	DESIGNED BY	DWG. NO.
2-73	G.N.M.	H-1-R
DRAWN BY	APPROVED BY	SHEET 1 OF 3
D.S.		



HEATING EQUIPMENT SCHEDULE						
MARK	TYPE	MANUFACT.	MODEL	M.B.H.	H.P.	REMARKS
UH-1	UNIT HEATER	DUNHAM-BUSH	H600 C	110	1/2	
UH-2	UNIT HEATER	DUNHAM-BUSH	C 900 G	140	1/2	
P-1	IN-LINE	B & G	60-22A	30GPM	3/4	
P-2	IN-LINE	B & G	60-22A	30GPM	3/4	
P-3	IN-LINE	B & G	60-22A	30GPM	3/4	
P-4	IN-LINE	B & G	60-22A	30GPM	3/4	
RA	FIN-TUBE	STERLING	22GPM	1/2	20 HD	

1. CONTRACTOR SHALL REMOVE ALL EXISTING GAS INFLAMED HEATERS INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL WIRING, CONDENSERS, HANGERS, ETC.

2. ALL EQUIPMENT & MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. SHALL BE PROMPTLY REMOVED FROM THE PREMISES BY THE CONTRACTOR.

3. WORKS ON ALL NEW UNIT HEATERS SHALL BE TO INCLUDE ENCLOSED EXPLOSION-PROOF FRAME CONSTRUCTION TO BE PROVIDED BY THE CONTRACTOR.

4. IN ADDITION TO NORMAL OPERATING CONDITIONS, ALL VERTICAL DISCHARGING UNIT HEATERS SHALL BE ELECTRICALLY WIRED TO OF GEAR TO THE FLOOR. THE UNIT SHALL BE MANUALLY WIRED TO OPERATE THE FAN AT ANY TEMPERATURE BETWEEN 50° AND 200° F. (A.T.M. EVALUATION) SEE SPEC.

5. ALL GAS WATER SUPPLY PIPING ABOVE FLOOR SLAB ELEVATION SHALL BE INSULATED AND THE INSULATION PAINTED AT ALL CHANGE OF DIRECTION FITTINGS.

6. ALL HEATING PIPING IN BOILER ROOM, MAIN BUILDING AND THRU SLEEVES SHALL BE INSULATED AND THE INSULATION PAINTED AT ALL CHANGE OF DIRECTION FITTINGS.

7. EACH CIRCULATING PUMP SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION.

8. BOILER H. SHALL HAVE AN AQUASTAT CONTROL TO PREVENT THE FAN FROM OPERATING IN EXCESS OF 200° F. IN THE BOILER ROOM.

9. ALL PUMPS SHALL BE CAPABLE TO OPERATE ON 200/220/440V 3 PH 4W UNLESS OTHERWISE SPECIFIED OR INDICATED.

10. ALL WOOD STRUCTURAL MEMBERS (BATTERS, PLATES, SPACERS, ETC.) SHALL BE TREATED WITH WOOD-LIFE PRESERVATIVE, TRICRETECHRYLENE OR APPROVED EQUAL BEFORE ERECTION.

11. PROVIDE TWO (2) OIL BURNER SAFETY SWITCHES, ONE IN BOILER ROOM AND ONE AT MAIN ENTRANCE OF MAIN BUILDING.

12. BOILER ROOM FINISHED FLOOR TO BE THE SAME ELEVATION AS MAIN BUILDING FLOOR BUT SHALL BE PITCHED TOWARD DOOR.

13. CONCRETE BOILER AND COMPRESSOR PADS SHALL BE LEVEL 3000' CONG. BY G.C.

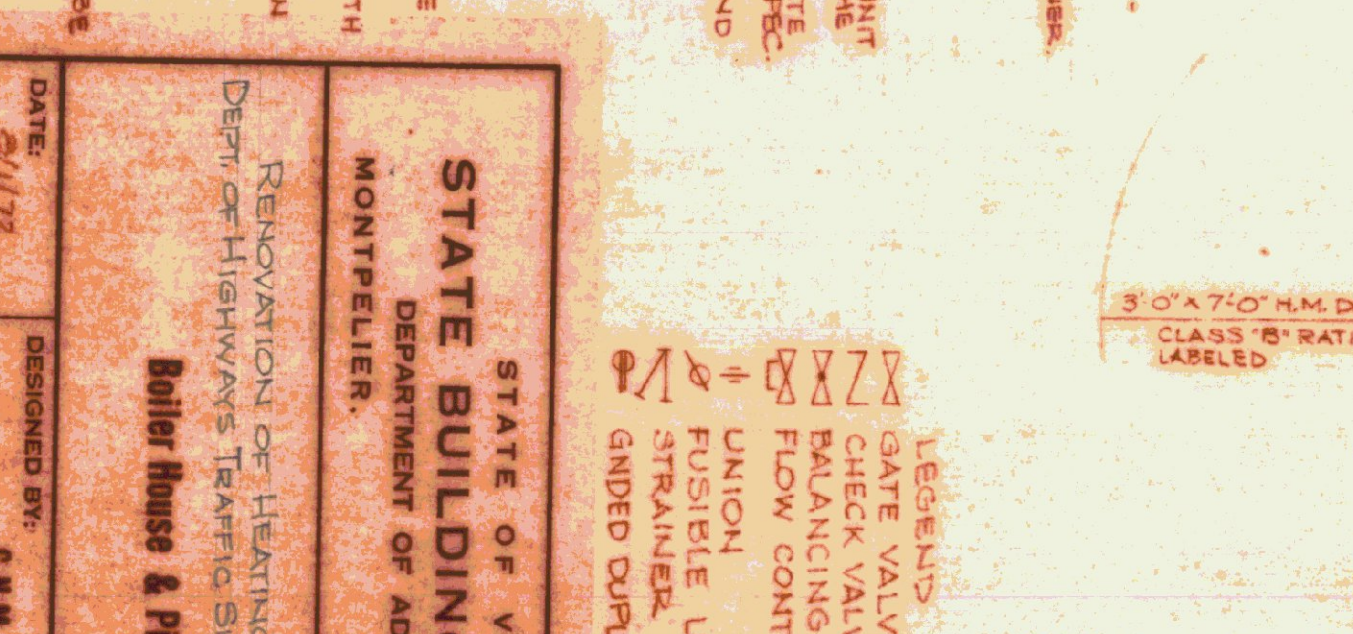
14. PIPING FOR STEEL OIL TANK AND FUEL OIL RETURN OIL FILTER AND VALVE SHALL BE 1 1/2\"/>

15. ALL NEW WIRING, SWITCHES, CONTROLS WITHIN 400' SHALL BE EXPLOSION PROOF & 1/2\"/>

16. ALL NEW PIPING CONDENSERS, HEATERS, ETC. TO BE INSTALLED UNDER CONTRACT SHALL NOT INTERFERE WITH OR DAMAGE OTHER EXISTING GAS OR ELECTRICALS, WITHIN 400'.

(CONTRACTOR SHALL MAINTAIN CLEARANCE FROM EXISTING GAS OR ELECTRICALS)

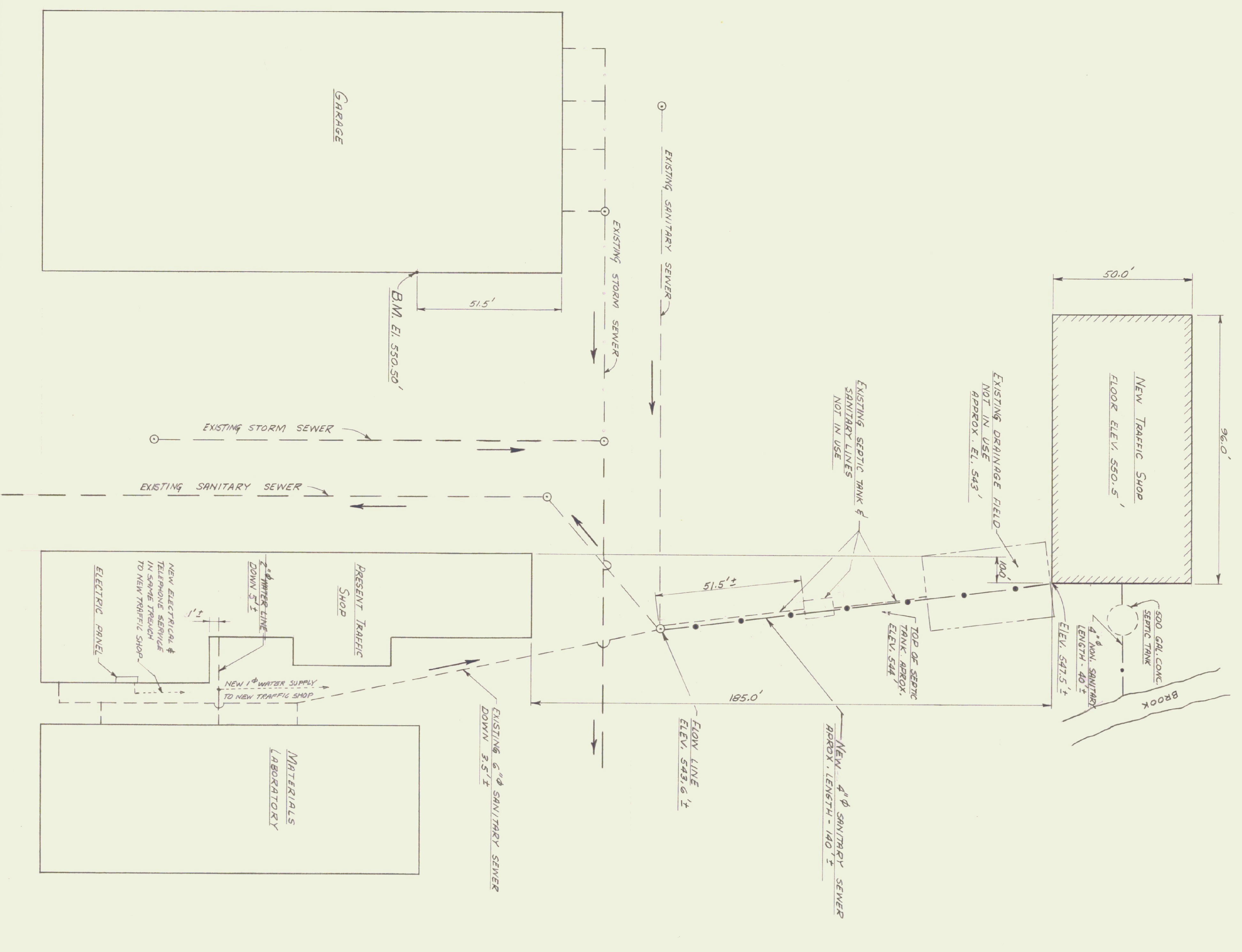
GENERAL NOTES -



LEGEND

- Gate Valve
- Check Valve
- Balancing Cock
- Flow Control
- Union
- Fusible Lever-Matic Valve
- Strainer
- Gender Duplex Outlet

STATE OF VERMONT
DEPARTMENT OF ADMINISTRATION
VERMONT
RENOVATION OF HEATING SYSTEM AT THE
DEPT. OF HIGHWAYS, TRAFFIC SHOP, BURLINGTON, VERMONT
Boiler House & Piping Details
DESIGNED BY: S.M.M.
DRAWN BY: C.E.H.
DATE: 6/1/72
DWS NO. H-2
3 OF 3



LEGEND	
--- (dashed line)	EXISTING SANITARY OR STORM SEWER LINES AS NOTED
--- (solid line)	NEW SANITARY OR STORM SEWER LINES AS NOTED
○ (circle)	MANHOLES
→ (arrow)	DIRECTION OF FLOW
⊕ (circle with cross)	NEW ELECTRICAL, TELEPHONE & WATER SUPPLY

TRAFFIC SHOP BUILDING	
BERLIN, VT.	
VERMONT DEPARTMENT OF HIGHWAYS	
DATE	AUG. 28, 1967
DRAWN BY	MONTELLIER, J.
DEPT. OF ADMINISTRATION	VERMONT
DWG. NO.	1

PROJECT