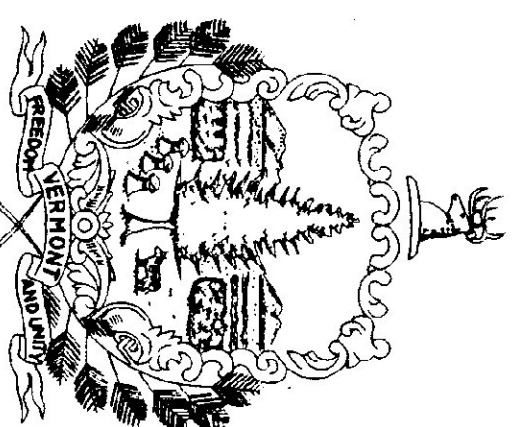


State of Vermont
Department of Buildings & General Services
4-BAY MAINTENANCE GARAGE
SALT/SAND SHEDS & STORAGE SHED
Brandon, Vermont

AGENCY OF ADMINISTRATION
DEPT. OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
THOMAS W. TORTI, COMMISSIONER

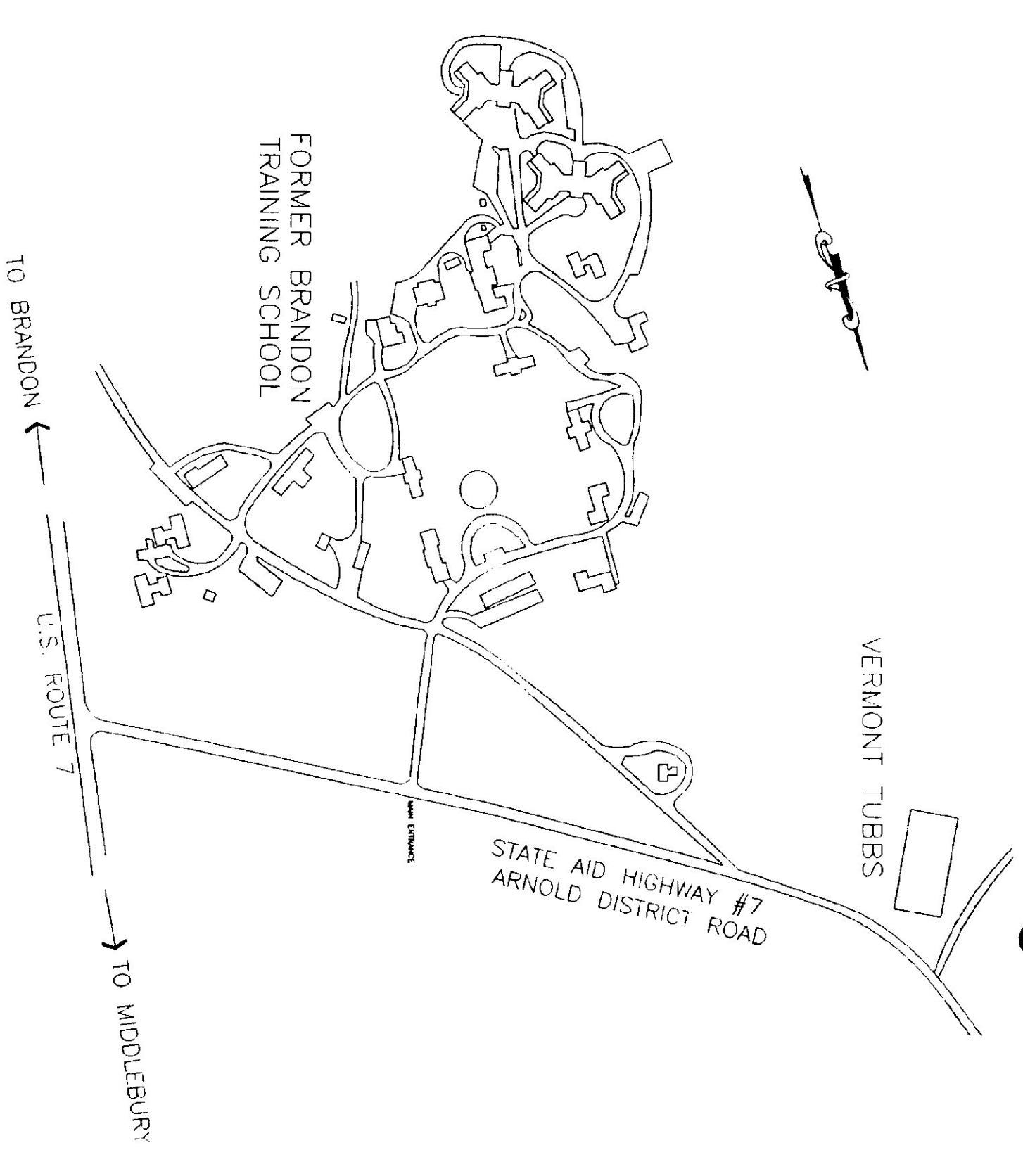


Howard Dean, M.D.
Governor

JUNE 1997

AGENCY OF TRANSPORTATION
133 STATE STREET
MONTPELIER, VERMONT 05633-5001
GLENN GERSHANECK, SECRETARY

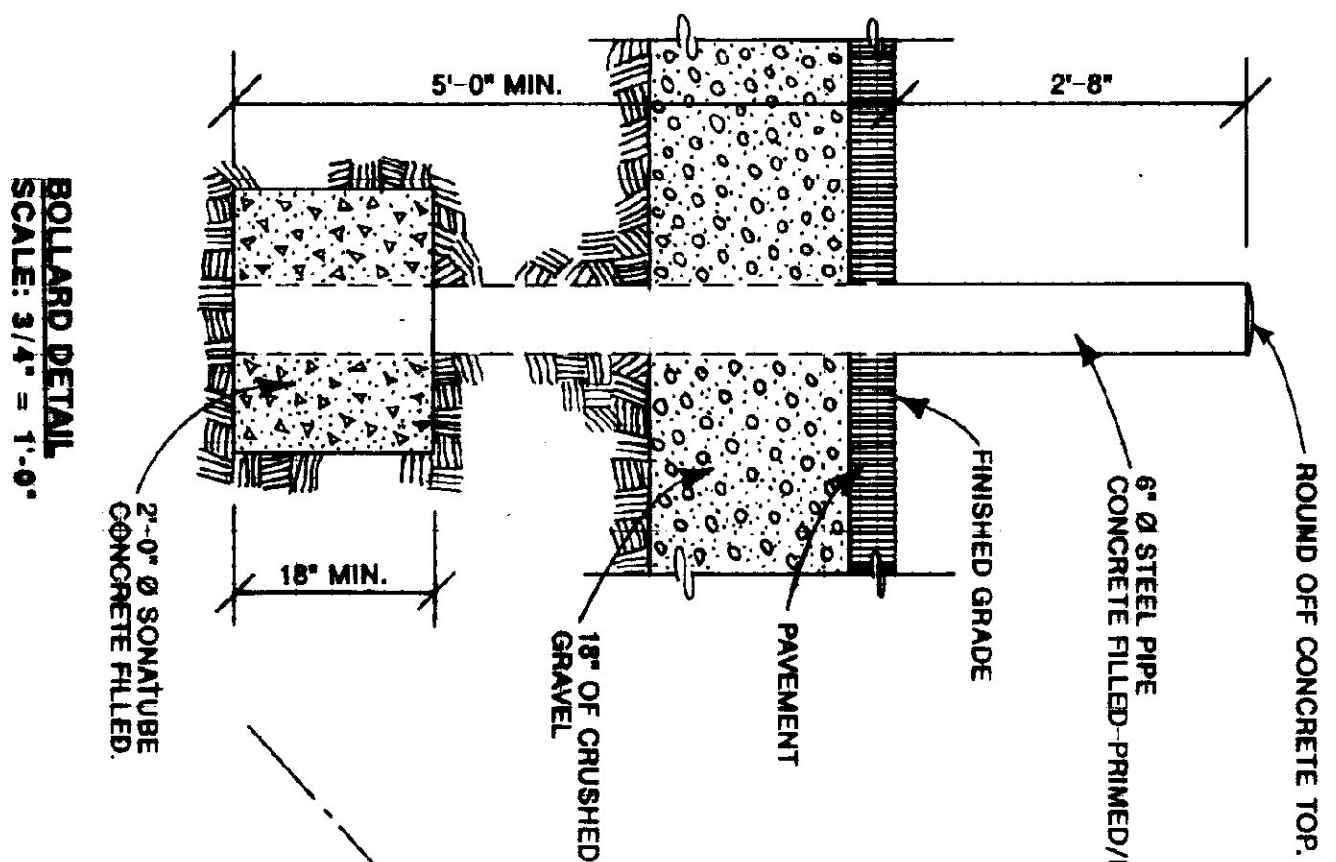
PROJECT LOCATION —●—



PROJECT LOCATION

INDEX OF SHEETS

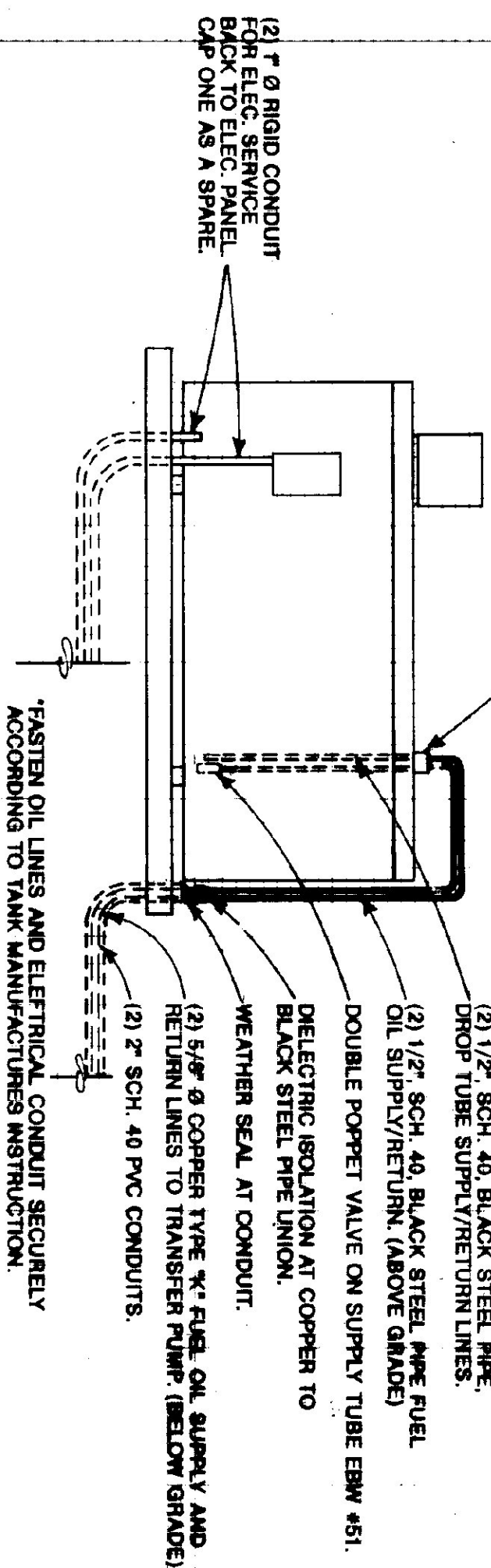
SD-1	SITE PLAN
C-1	SITE PLAN
C-2	SECTIONS & PROFILES
C-3	DRAINAGE DETAILS
C-4	SEWER DETAILS
C-5	WATER DETAILS
C-6	MISCELLANEOUS DETAILS
C-7	EROSION CONTROL
A-1	FIRST FLOOR/MEZZANINE PLANS & SECTIONS
A-2	GARAGE ELEVATIONS
A-3	INTERIOR & CHIMNEY SECTIONS/ELEVATIONS
A-4	WALL PLANS & SECTIONS
A-5	WALL SECTIONS, ROOF PLAN & SCHEDULES
A-6	DOOR, WINDOW & STAIR DETAILS
A-7	40' X 64' SALT SHED (TYPICAL)
A-8	24' X 48' COLD STORAGE SHED
S-1	FOUNDATION PLANS & SECTIONS
S-2	STRUCTURAL STEEL FRAMING & DETAILS
S-3	SAND TRAP & DRAINAGE PLAN
M-1	MECHANICAL PLAN & SECTION
M-2	MECHANICAL ELEVATIONS & DETAILS
P-1	PLUMBING PLAN
E-1	ELECTRICAL PLAN



1. BOX CUT NATIVE MATERIAL TO APPROPRIATE SIZE, DEPTH. PLACE 6" LAYERS OF SPECIFIED SUB-BASE AND COMPACT TO 95% MOD. PROCTOR.
2. THE REINFORCING STEEL, AS NOTED.
3. PLACE OLD, SUPPLY CONDUIT ON EAST END 12" FROM EDGE OF SLAB TO INSIDE EDGE OF CONDUIT (CENTERED IN WIDTH OF SLAB).
4. PLACE RIGID ELEC. CONDUIT FROM ELEC. PANEL BACK TO S. W. CORNER OF CONCRETE SLAB AS SHOWN ON DRAWING.
5. SEAL ALL CONDUITS EXPOSED TO WEATHER TO PREVENT MOISTURE FROM ACCUMULATING IN CONDUIT. USE MECHANICAL SEALS OR APPROVED CAULKING ON EXPOSED CONDUITS OR AIRDRIED FUEL LINES.
6. POUR 4000 P.S.I. CONCRETE AND LIGHT BROOK FINISH.
7. FUEL TANK SLAB TO COMPLY WITH TANK MANUFACTURERS REQUIREMENT.

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

DUPLEX TANK BUSHING
2" x 5/8" x 5/8".



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



STATE OF VERMONT	
DEPARTMENT OF STATE BUILDINGS	
AGENCY OF ADMINISTRATION	
MONTPELIER, VERMONT	
VERMONT AGENCY OF TRANSPORTATION	
4 BAY MAINTENANCE GARAGE	
BRANDON, VERMONT	
DATE: JUNE 1957	SCALE: 1" = 30'-0"
DRAWN BY: A. POLHAM	APPROVED BY: <i>W. H. Miller</i>
REVISIONS:	
DWG. NO. SD-1	1 OF 23

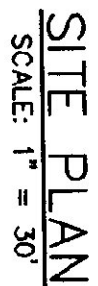
SITE PLAN
FOR
VERMONT AOT MAINTENANCE GARAGE
IN
BRANDON, VERMONT

PHONE: (802) 457-3560 FAX: (802) 457-4853

FOR
CONSTRUCTION

VERMONT AOT	
SITE PLAN	
NOT TO SCALE	
C1	
2 OF 23	

BRUNO ASSOCIATES INC., P.C.
FILE:
C:\JOBS\BRUNO\97-41\AOT-PL
PROJECT: 970041
VAOT SHED



SITE PLAN
SCALE: 1" = 30'

CONSTRUCTION NOTES:

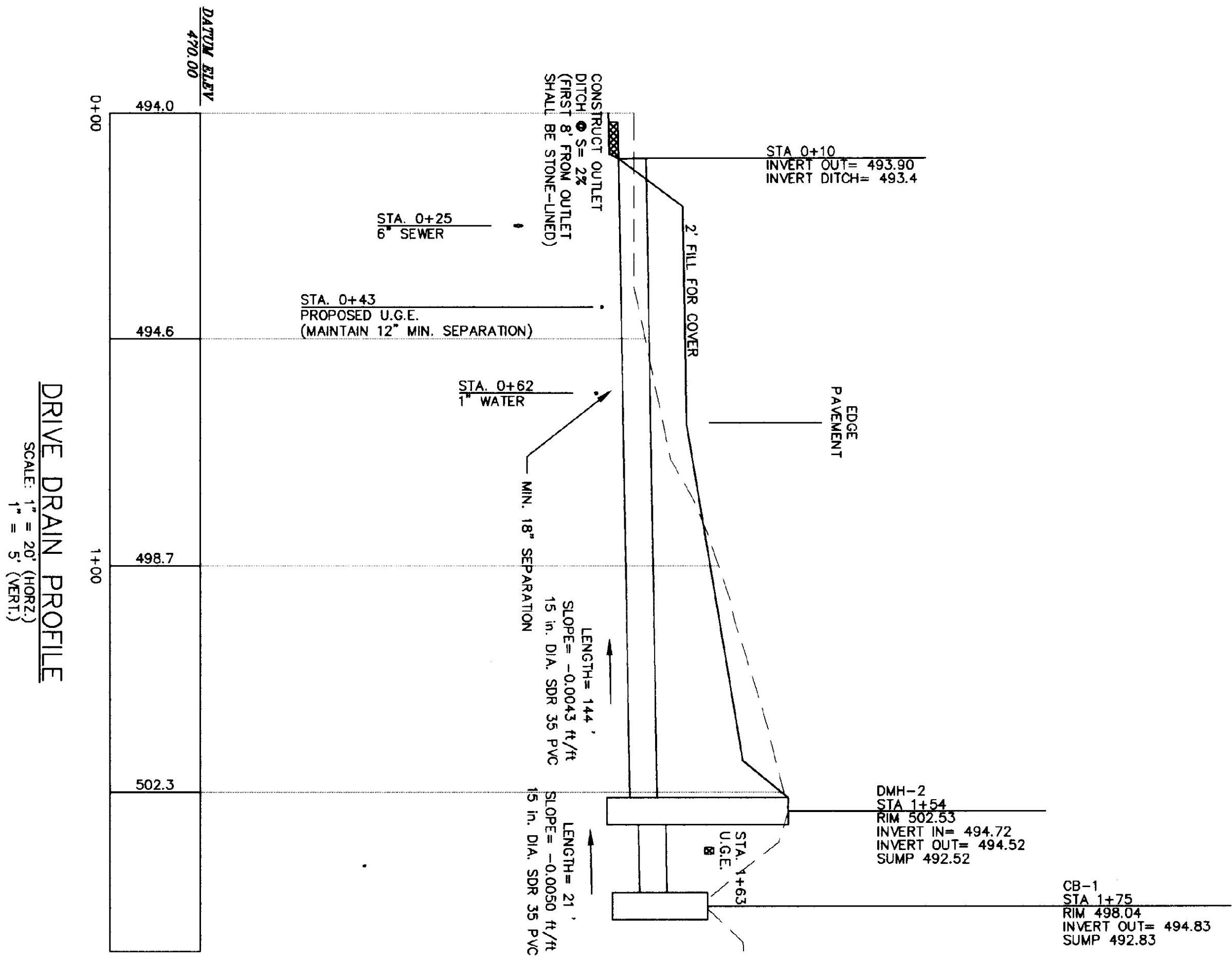
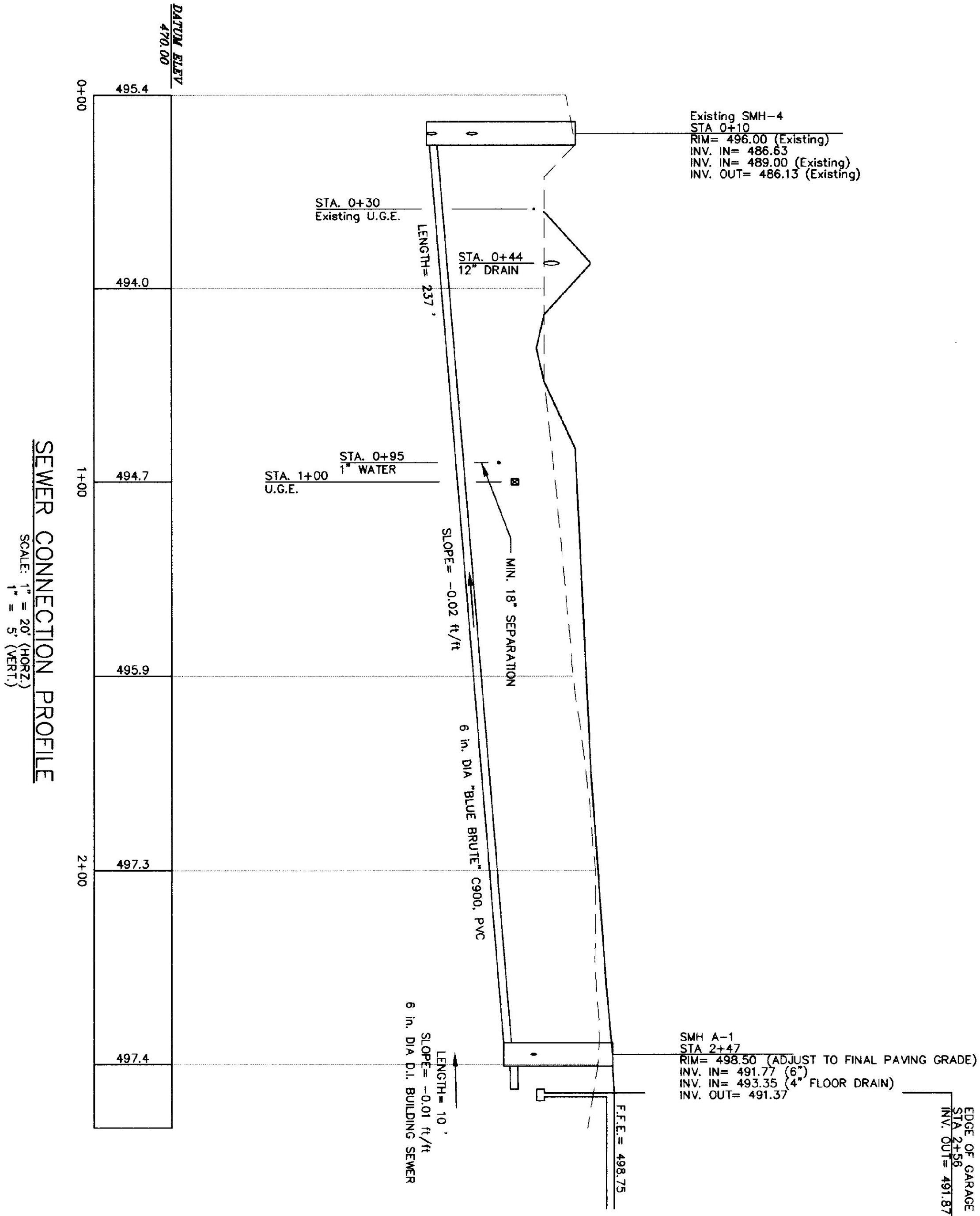
- 1 BUILDING SEWER LOCATION TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- 2 WARP PAVEMENT GRADE THIS AREA TO MATCH PARKING LOT SLOPE.
- 3 GRADING CUT/CONSTRUCTION OVER USE MUST BE COORDINATED WITH CENTRAL VERMONT PUBLIC SERVICE (C.V.P.S.).
- 4 EXCAVATE SHALLOW SWALE TO DIRECT RUNOFF TO DETENTION POND. SWALE SIDE SLOPES TO BE 2:1 IN THIS AREA TO AVOID/MINIMIZE DISTURBANCE TO THE WETLANDS.
- 5 ALL CONSTRUCTION SHALL CONFORM TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION (1990 EDITION) UNLESS OTHERWISE SPECIFIED ON THE PLANS.



WATER CONNECTION DETAIL

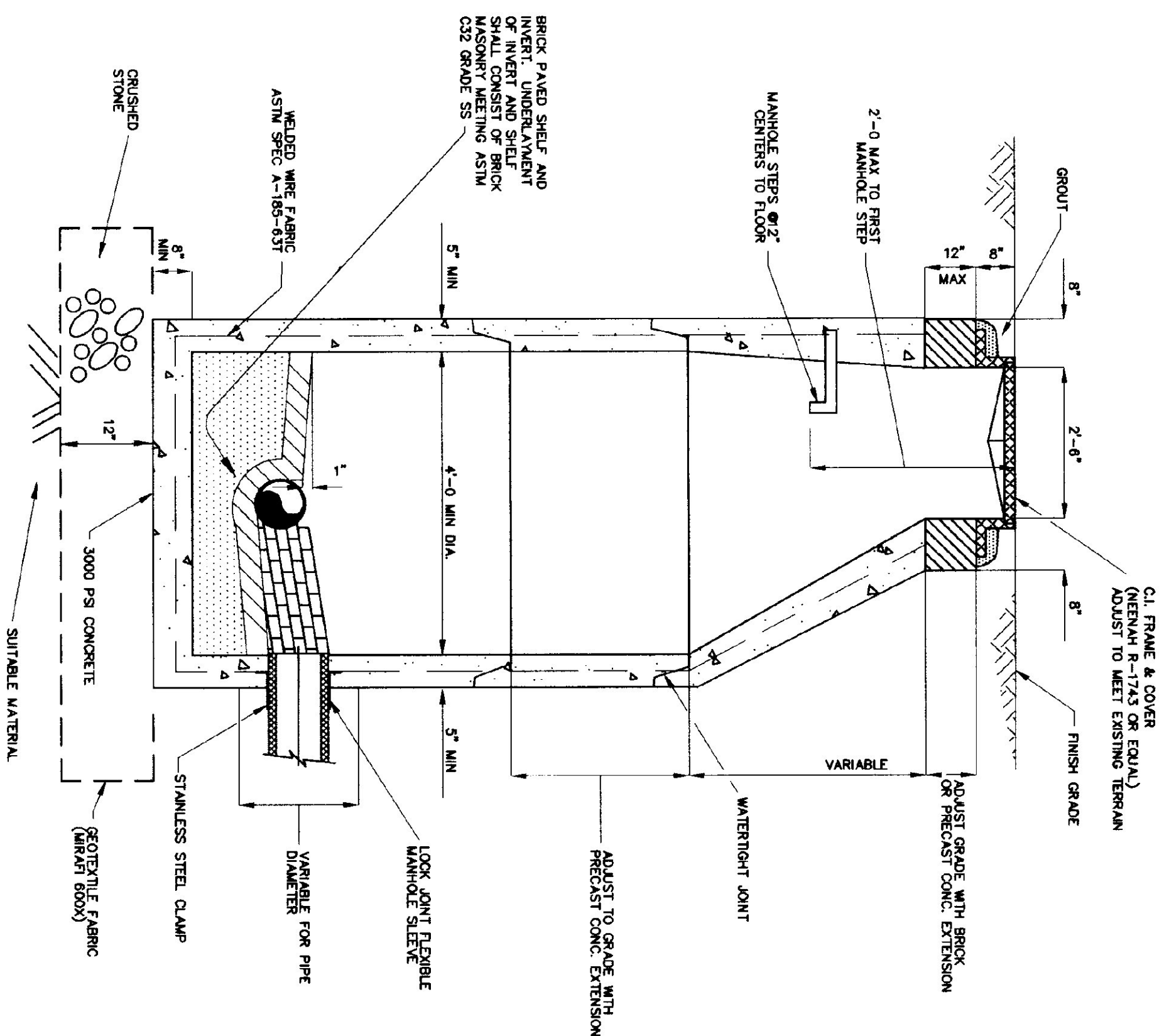
NOTE: SEE SHEET C-5 FOR WORK LIMITS

SCALE: 1" = 30'



SCALE: AS NOTED

FOR CONSTRUCTION	BRUNO ASSOCIATES INC. P.C. ENGINEERS, PLANNERS, SURVEYORS PO BOX 387, THE MILL BUILDING WOODSTOCK, VERMONT 05091 PHONE: (802) 457-3560 FAX: (802) 457-4853	PROFILES FOR VERMONT AOT MAINTENANCE GARAGE IN BRANDON, VERMONT	NO	REVISIONS	DATE
			1.	PERMIT PLANS	MFD 2/28/97
			2.	CONSTRUCTION PLANS	MFD 7/2/97
			3.	CONSTRUCTION PLANS II	MFD 7/9/97
PROFILES C2 3 OF 23			© 1997 BRUNO ASSOCIATES INC., P.C. P.L.C. C:\JOSS\BRUNO\97-41\401-R.2 PROJECT: 970041 VLOT SHED		



TYPICAL SEWER MANHOLE SECTION

N.T.S.

- 1) MANHOLE EXTENSIONS TO BE COATED TWICE AT THE FACTORY WITH EPOXY RESIN SEALING COATING. COATING SHALL BE APPLIED WHEN EPOXY RESIN SEALING IS INADEQUATE OR DAMAGED, AND ALL JOINTS SHALL BE COATED.
- 2) COVER SHALL HAVE "SEWER" CAST IN IT.
- 3) CRUSHED STONE BASE SHALL EXTEND 12" BEYOND THE STRUCTURE LIMITS. LAP GEOTEXTILE FABRIC UP THE SIDES AND OVER THE TOP OF THE CRUSHED STONE.

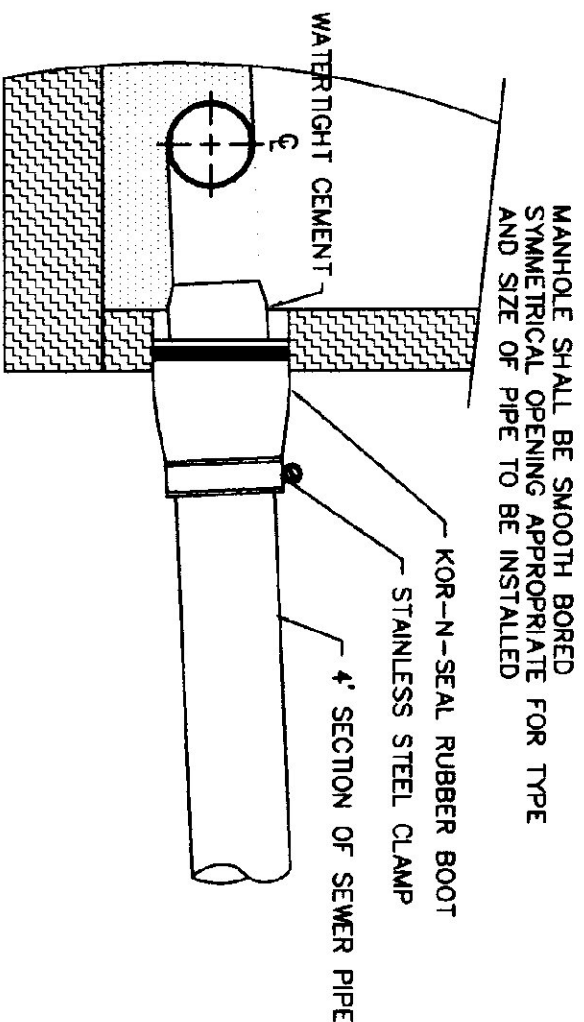
MANHOLE LEAKAGE TESTING PROCEDURES

ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRANTY SEWERS UTILIZING THE WATER TESTING PROCEDURE TAKES INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHERWISE, MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

RE:

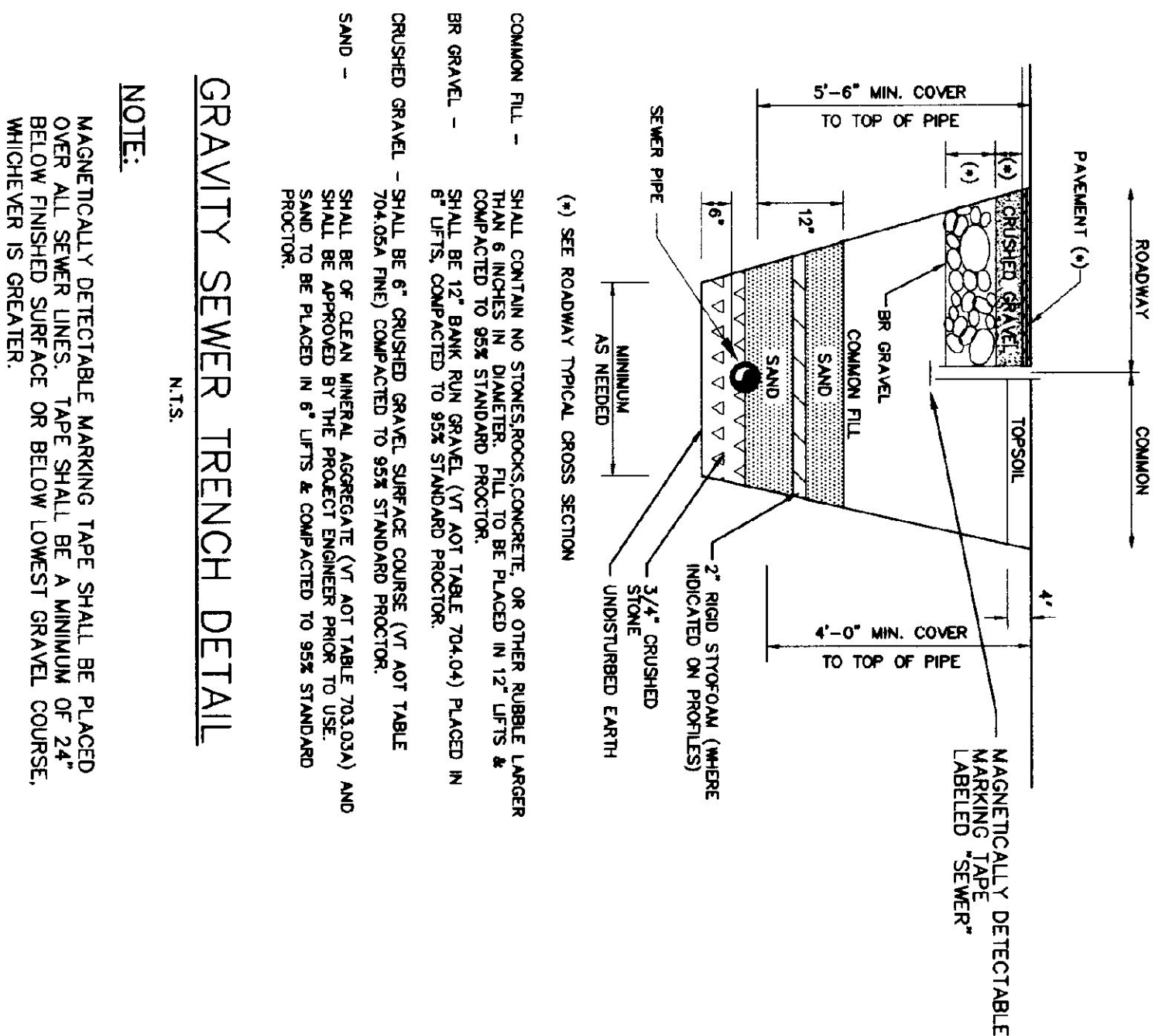
AFTER THE MANHOLE HAS BEEN ASSEMBLED, IN PLACE, ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. ALL PIPES AND OTHER OPENINGS TO THE MANHOLE SHALL BE SUITABLY PLUGGED, AND THE PLUGS PLACED TO PREVENT BLOWOUT.

EACH MANHOLE SHALL BE CHECKED FOR INFILTRATION BY FILLING WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE RETIRED TO THE TOP OF THE CONE IF NECESSARY, AND THE MEASURING TIME AT LEAST SIX HOURS BEGINS. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REINJECTED TO THE DEPTH OF THE CONE SECTION. THE MEASURING TIME SHALL BE RESTARTED. THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR 24 HOUR PERIOD FOR DETENTION, AND THERE SHALL BE NO VISIBLE INFILTRATION.



KORE - N - SEAL MANHOLE SECTION

N.T.S



GRAVITY SEWER TRENCH DETAIL

N.T.S.

- COMMON FILL - SHALL CONTAIN NO STONES, ROCKS, CONCRETE, OR OTHER HAZARDOUS MATERIALS. SHALL BE 6" CRUSHED GRAVEL SURFACE COURSE (VIT AOT TABLE 704.04) PLACED IN 8" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.
- BR GRAVEL - SHALL BE 6" CRUSHED GRAVEL SURFACE COURSE (VIT AOT TABLE 704.04) PLACED IN 8" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.
- CRUSHED GRAVEL - SHALL BE 6" CRUSHED GRAVEL SURFACE COURSE (VIT AOT TABLE 704.04) PLACED IN 8" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.
- SAND - SHALL BE OF CLEAN WASHED, AGGREGATE (VIT AOT TABLE 703.04) PLACED IN 8" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.

NOTE:

MAGNETICALLY DETECTABLE MARKING TAPE SHALL BE PLACED OVER ALL SEWER LINES. TAPE SHALL BE A MINIMUM OF 24" BELOW FINISHED SURFACE OR BELOW LOWEST GRAVEL COURSE WHICHEVER IS GREATER.

NOTE:

CONTRACTOR SHALL NOTIFY MR. BRUCE ROUNDS, HARBOR PUBLIC WORKS SUPERINTENDENT, (802) 247-7635, AT LEAST 24 HOURS PRIOR TO CONSTRUCTING SEWER SERVICE. PIPE AND TRENCH SHALL REMAIN OPEN UNTIL INSPECTED BY TOWN AND PERMISSION GRANTED TO BACKFILL. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL OBLIGATE CONTRACTOR TO RE-EXCAVATE THE LINE FOR INSPECTION; COST FOR SUCH RE-EXCAVATION AND ANY POSSIBLE DAMAGE/REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

GRAVITY SEWER TESTING PROCEDURES

INCLUDING MANHOLES SHALL NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY. UPON COMPLETION OF CONSTRUCTION, A SEWER LINE SHALL BE TESTED IN ACCORDANCE WITH ONE OF THE FOLLOWING PROCEDURES:

- ## A. PROCEDURES

TAE

1. DETERMINE THE TEST TIME FOR THE SECTION OF LINE TO BE TESTED USING TABLE III.
2. PLUG ALL OPENINGS IN THE TEST SECTION.

3. AND AIR LINE. THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 POUNDS/SQUARE INCH (PSI) GREATER THAN THE AVERAGE PRESSURE OF THE AIR LINES. THE PRESSURE IS MAINTAINED AT THIS LEVEL FOR 10 MINUTES TO STABILIZE THE PRESSURE. THE LINE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MINUTES, DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.
4. WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSIA ABOVE THE PIPE, START THE TEST. IF THE PRESSURE IS PRESUMED TO HAVE FALLEN THE TEST. IF AT A 0.5 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST.

1. TABLE III SHOWS THE REQUIRED TEST TIME, T , IN MINUTES/100 FEET OF PIPE FOR EACH NOMINAL PIPE SIZE. TEST TIMES ARE FOR 1.0 PSI PRESSURE DROP FROM 3.5 TO 2.5 PSI.

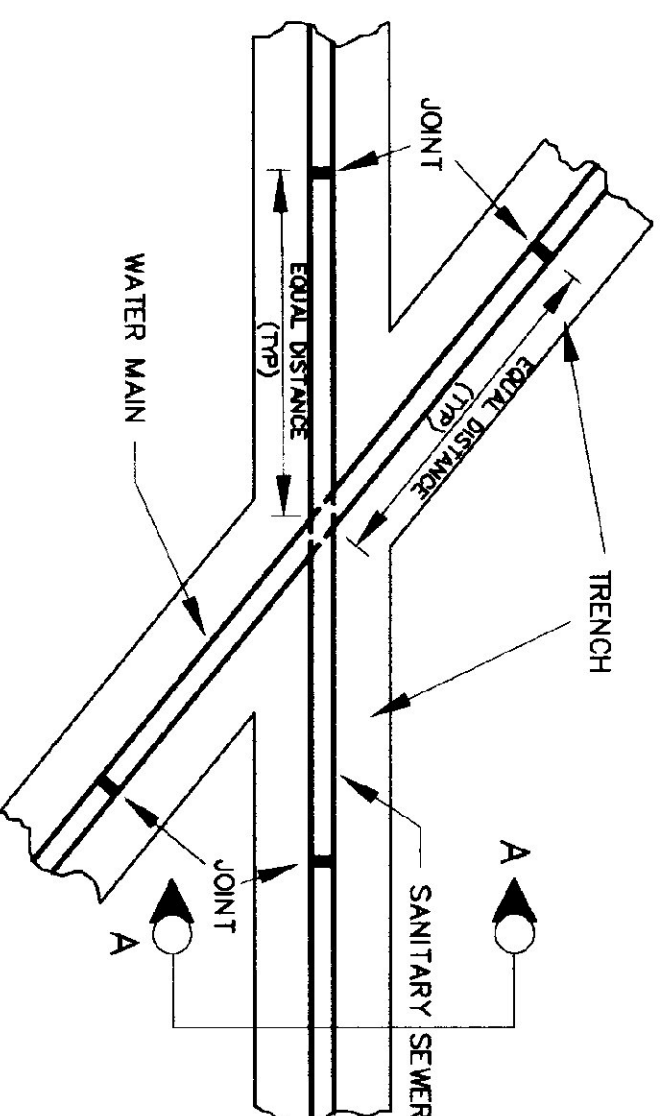
2. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION.

TABLE III MINIMUM TEST TIME FOR VARIOUS PIPE SIZES

NOMINAL PIPE SIZE IN.	(TIME) MIN/100 FT.	NOMINAL PIPE SIZE IN.	(TIME) MIN/100 FT.
3	0.2	21	3.0
4	0.3	24	3.6
6	0.5	30	4.5
8	0.8	36	4.8
10	1.2	42	5.4
12	1.5	33	5.4
16	1.8	36	6.0
18	2.1	39	6.3
		42	6.5
			7.5

2) WATER TESTING

WATER TESTING OF GRAVITY SEWERS SHALL BE CONDUCTED IN ACCORDANCE WITH APPENDIX 1-A OF THE CURRENT EDITION OF THE VERMONT ENVIRONMENTAL PROTECTION RULES (CHAPTER 1).

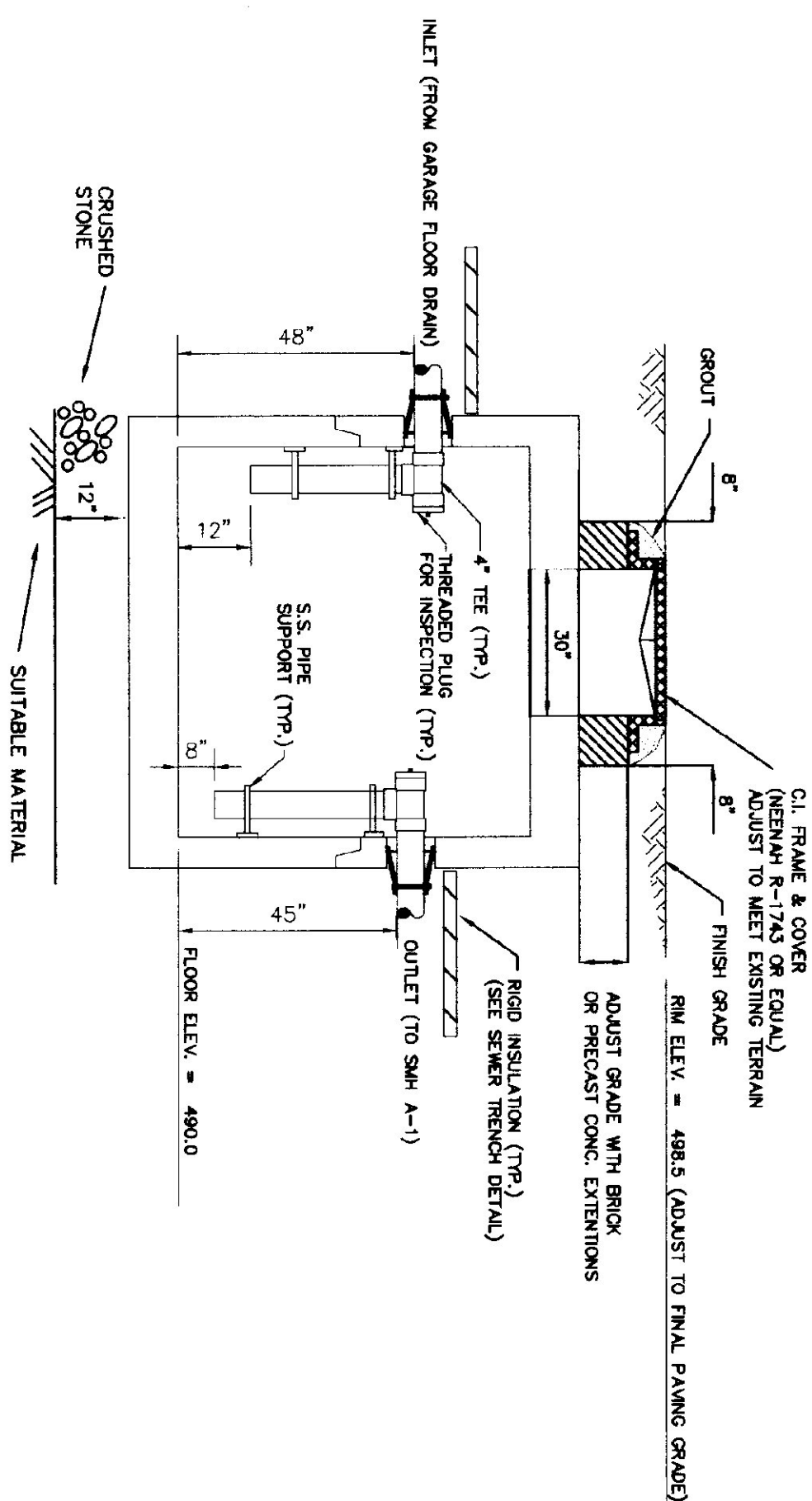


WATER--SEWER CROSSING DETAIL

N.T.5

CROSSING NOTES

ORIGINALLY, SEWAGE-CLEANING WATER MAINS SHOULD BE Laid AND SEW-THAT THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. THE FOLLOWING STANDARDS SHALL APPLY IF THE VERTICAL CLEARANCE CANNOT BE MET: IF THE SEWER IS 18 INCHES OR LESS IN DIAMETER, THE WATER MAIN SHALL BE 18 INCHES OR MORE AWAY FROM THE SEWER. IF THE SEWER IS 24 INCHES OR MORE IN DIAMETER, THE WATER MAIN SHALL BE 24 INCHES OR MORE AWAY FROM THE SEWER. THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM OF 10 FEET. THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESURE TESTED TO MAINTAIN 10 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING. BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE PROTECTION OF THE SEWER FROM PREVENT DAMAGE TO THE WATER MAIN, ADEQUATE SHOULDER SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.



OIL SEPARATOR

N.T.3

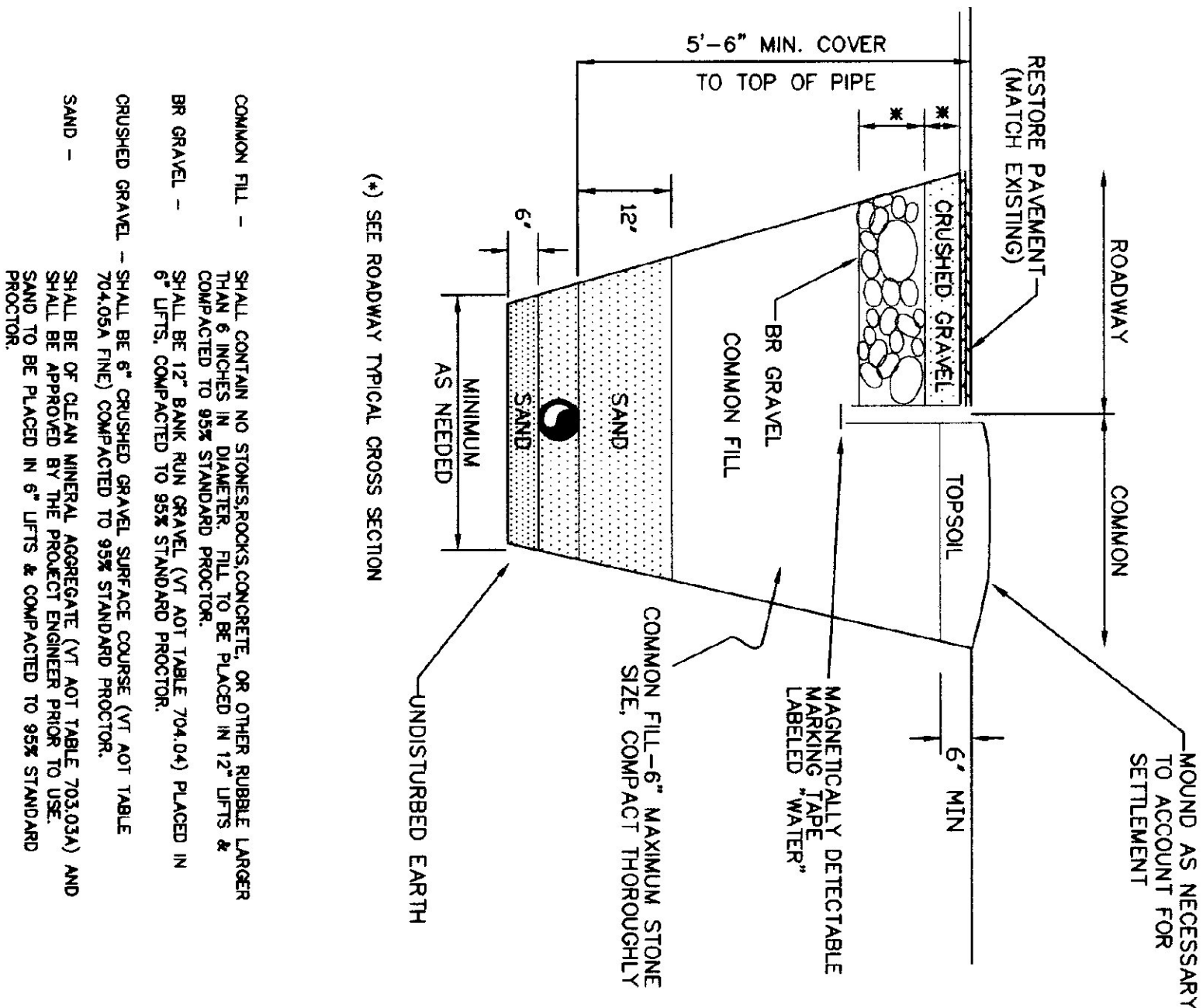
NOTES:

THE OIL SEPARATOR CHAMBER SHALL BE A FOUR (4) FOOT X SIX (6) FOOT (INSIDE DIMENSIONS) UTILITY BOX AS MANUFACTURED BY S.T. GRISWOLD. THE INSIDE HEIGHT SHALL BE 6 FEET. THE CONCRETE SECTIONS SHALL BE CASTED IN PLACE AND SHALL BE REINFORCED WITH #4 BARS. THE JOINTS SHALL BE SEALED BY FLEXIBLE WATERPROOF BOOTS. THE EXTERIOR OF THE UTILITY BOX SHALL RECEIVE TWO COATS OF ASPHALTIC SEAL COATING AT THE FACTORY. JOINTS BETWEEN THE CONCRETE SECTIONS SHALL BE SEALED BY GULF MASTER (ASTM D-1198) PIPE PENETRATIONS SHALL BE SEALED BY FLEXIBLE WATERPROOF BOOTS.

INTERIOR PIPING SHALL BE PVC SCH-40. FITTINGS SHALL BE SOLVENT WELD TYPE. INTERIOR PIPING SHALL BE RESTRAINED WITH STAINLESS STEEL VERTICAL PIPE SUPPORTS.

THE OIL SEPARATOR CHAMBER SHALL BE FILLED WITH WATER AND SUBJECTED TO A 24 HOUR HYDROSTATIC LEAKAGE TEST. NO LEAKAGE WILL BE ALLOWED DURING THE TEST PERIOD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A WATERTIGHT STRUCTURE.

SCALE: AS NOTED



- COMMON FILL - SHALL CONTAIN NO STONES, ROCKS, CONCRETE, OR OTHER RUBBLE LARGER THAN 6 INCHES IN DIAMETER. FILL TO BE PLACED IN 12" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.
- BR GRAVEL - SHALL BE 12" BANK RUN GRAVEL (VT AOT TABLE 704.04) PLACED IN 6" LIFTS, COMPACTED TO 95% STANDARD PROCTOR.
- CRUSHED GRAVEL - SHALL BE 6" CRUSHED GRAVEL SURFACE COURSE (VT AOT TABLE 704.05A FINE) COMPACTED TO 95% STANDARD PROCTOR.
- SAND - SHALL BE OF CLEAN MINERAL AGGREGATE (VT AOT TABLE 703.02A) AND SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO USE. SAND TO BE PLACED IN 6" LIFTS & COMPACTED TO 95% STANDARD PROCTOR.

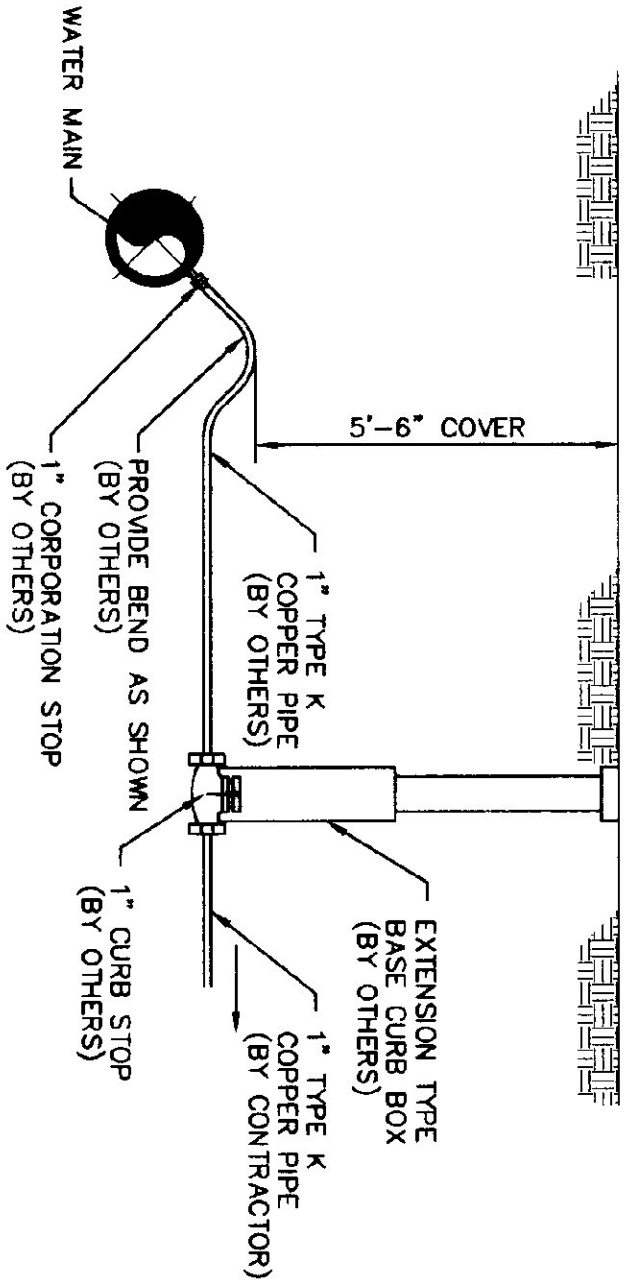
WATER PIPE TRENCH SECTION

N.T.S.

WATER SERVICE 1" K" COPPER LINE SHALL BE PRESSURE TESTED AND DISINFECTED AS APPROVED BY THE PROJECT ENGINEER.

NOTE:

MAGNETICALLY DETECTABLE MARKING TAPE SHALL BE PLACED OVER ALL WATER LINES. TAPE SHALL BE A MINIMUM OF 24" BELOW FINISHED SURFACE OR BELOW LOWEST GRAVEL COURSE, WHICHEVER IS GREATER.



WATER SERVICE CONNECTION

N.T.S.

NOTES:

- 1) CONTRACTOR SHALL COORDINATE WATER SERVICE INSTALLATION WITH MR. DOUG CUMMINGS, BRANDON FIRE DISTRICT (BFD), (802) 247-5311.
- 2) BFD SHALL TAP EXISTING WATER MAIN, PROVIDE CORRORATION, 1" COPPER STUB, AND CURB STOP WITH GATE BOX.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND BACKFILL FOR WORK DONE BY BFD. CONTRACTOR SHALL NOT EXCAVATE NEAR OR TO WATER MAIN WITHOUT A REPRESENTATIVE OF THE BFD ON-SITE.
- 4) CONTRACTOR SHALL BE RESPONSIBLE FOR \$278 TAPPING FEE (PAYABLE TO BFD).
- 5) CONTRACTOR SHALL CONSTRUCT WATER SERVICE FROM CURB STOP TO GARAGE.

LEAKAGE TESTING OF WATER LINES

ALL TYPES OF INSTALLED WATER LINES SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C-600.

DISINFECTION OF WATER LINES

- A) BASIC DISINFECTION PROCEDURE CONSISTS OF:
- 1) PREVENTING CONTAMINATING MATERIALS FROM ENTERING THE WATER LINE DURING CONSTRUCTION OR REPAIR.
 - 2) REMOVING BY FLUSHING OR OTHER MEANS, THOSE MATERIALS THAT MAY HAVE ENTERED THE WATER LINE.
 - 3) CHLORINATING ANY RESIDUAL CONTAMINATION THAT MAY REMAIN, AND FLUSHING THE CHLORINATED WATER.
 - 4) DETERMINING THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER DISINFECTION.
 - 5) COMPLY WITH ALL PERTINENT PROCEDURES AND REQUIREMENTS OF THE CURRENT EDITION OF AWWA STANDARD C651, FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES.
- B) DISINFECTION PROCEDURE:
- 1) CLOSE THE SERVICE VALVES AND FILL THE WATER LINE WITH CHLORINATED WATER.
 - 2) LEAVE THE CHLORINATED WATER IN THE WATER LINE FOR AT LEAST 24 HOURS.
 - 3) AT THE END OF THIS PERIOD, THE CHLORINATED WATER SHALL BE SAMPLED AND HAVE A FREE CHLORINE RESIDUAL OF AT LEAST 10 mg/L. IF NOT, THE PROCEDURE SHALL BE REPAIRED UNTIL THE RESIDUAL REQUIREMENT IS MET.
 - 4) HEAVILY CHLORINATED WATER SHALL BE NEUTRALIZED PRIOR TO RELEASE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C651. NEUTRALIZATION OF CHLORINATED WATER SHALL BE COORDINATED WITH LOCAL AND STATE AGENCIES TO DETERMINE SPECIAL PROVISIONS FOR THE DISPOSAL OF HEAVILY CHLORINATED WATER.
 - 5) THOROUGHLY FLUSH THE WATER LINE ASSURING NO OFFENSIVE ODOR EXISTS DUE TO CHLORINE REACTIONS OR EXCESS CHLORINE RESIDUAL.
 - 6) FLUSHING VELOCITY SHALL NOT BE LESS THAN 2.5 FT/SEC.
 - 7) REPEAT DISINFECTION PROCESS ON LINES THAT BECOME OR MAY HAVE BECOME RECONTAMINATED AND ON ALL LINES IN WHICH COLIFORM BACTERIA WERE FOUND.
 - 8) THE TABLET METHOD IS NOT ACCEPTABLE.
 - 9) RESULTS OF ALL DISINFECTION TESTS SHALL BE PROVIDED TO PROJECT ENGINEER.

NO	REVISIONS	DATE
1.	PERMIT PLANS MFD	2/28/97
2.	CONSTRUCTION PLANS MFD	7/2/97
3.	CONSTRUCTION PLANS II MFD	7/9/97

WATER DETAILS
FOR
VERMONT AOT MAINTENANCE GARAGE
IN
BRANDON, VERMONT

BRUNO ASSOCIATES INC. P.C.
ENGINEERS, PLANNERS, SURVEYORS
PO BOX 387, THE MILL BUILDING
WOODSTOCK, VERMONT 05091

PHONE: (802) 457-3560 FAX: (802) 457-4853

FOR
CONSTRUCTION

SURVEYED: N/A
DESIGNER: ESC, DAN
DRAWN: WFD, ESC
CHECKED: JMB
DATE: 11/4/96
VERMONT AOT
WATER DETAILS
6 OF 23
© 1997
BRUNO ASSOCIATES INC., P.C.
FILE: G:\JOBS\BRUNO\97-41\WATER
PROJECT: 570241
WOT SHED

SCALE: AS NOTED

GENERAL EROSION CONTROL NOTES

SITE PREPARATION

- 1) ALL NECESSARY AND REQUIRED EROSION CONTROL, WILL NEED TO BE INSTALLED AND IN PLACE PRIOR TO ANY CLEARING AND GRUBBING.
 - 2) ONCE THE TEMPORARY EROSION CONTROL MEASURES, AS DESCRIBED ON THE PLAN, AND AS REQUIRED IN THE FIELD, ARE IN PLACE, GRUBBING, GRADING AND EARTHWORK MAY BEGIN IN PHASES. EACH PHASE, FROM THE BEGINNING OF CLEARING TO FINAL STABILIZATION OF SEEDING AND MULCHING, SHOULD BE ACCOMPLISHED WITHIN A REASONABLE PERIOD OF TIME, USUALLY TWO WEEKS.
 - 3) ALL BLASTING WILL BE COMPLETED UNDER BLAST MATS OR EARTH FRAMENTS. BLASTING SHALL ALSO CONFORM TO ALL STATE AND FEDERAL STANDARDS.
 - 4) SLOPES WILL BE BROUGHT TO FINAL GRADE AS RAPIDLY AS POSSIBLE. AT THE END OF EACH DAYS OPERATION, THE SEGMENT OF THE SLOPE UNDER CONSTRUCTION WILL EITHER BE SEEDED AND MULCHED UPON COMPLETION OF FINAL GRADE, OR ALL EROSION CONTROL MEASURES WILL BE INSTALLED AND IN PLACE PRIOR TO THE NEXT DAY. IN THE EVENT OF A RAIN DURING THE NON-WORKING PERIODS.
- THE BASIS OF DESIGN TO ENSURE A MINIMUM OF SOIL EROSION DURING CONSTRUCTION IS AS FOLLOWS:

- ALL FINISH GRADED AREAS SHALL BE MULCHED AND SEEDED EXPEDITIOUSLY AS SOON AS THEY ARE SO GRADED. IT SHOULD BE POSSIBLE TO PLACE SEED AND MULCH WITHIN ONE WEEK OF FINISH GRADING.

PROBLEM AREAS SUCH AS WET SITE AND INTERMITTENT WATER COURSE
WILL BE GIVEN PRELIMINARY SEED AND MULCH COATS PRIOR TO FINAL
PLANTING AS AN EXTRA PRECAUTION.

TOP SOIL STOCKPILE FOR FUTURE USE IS TO BE PROTECTED FROM EROSION. IF TOPSOIL IS TO BE STOCKPILED, IT SHALL ONLY BE DONE OUTSIDE ANY DRAINAGEWAYS OR WATER COURSES. A SWALE NOT LESS THAN TWELVE INCHES DEEP SHALL BE CONSTRUCTED AROUND THE PERIMETER OF THE STOCKPILE. IF THE STOCKPILE IS TO REMAIN IN POSITION FOR MORE THAN ONE MONTH, IT WILL BE SEEDED AND MULCHED.

- ## 2) SITE AND ROADWAY

THE ROADWAY CROSS-SECTION HAS BEEN DESIGNED SO THAT NO CUT FILL SLOPES WILL EXCEED TWO FOOT HORIZONTAL IN ONE FOOT VERTICAL (2:1). EXCEPT IN LEGGE CUTS WHICH ARE 1:1, IN AREAS WHERE SLOPES MAY BE SATURATED BY SEASONAL OR PERMANENT WATER TABLES, IT MAY BE NECESSARY TO PROVIDE ARTIFICIAL SLOPE STABILIZATION BY UNDERDRAIN MEASURES TAKEN AS THEY ARE UNCOVERED DURING CONSTRUCTION. WHERE SATURATED SOILS ARE ENCOUNTERED WITHOUT EXPLORATION, CUT SECTIONS HAVE BEEN AVOIDED IN AS MUCH AS IS PRACTICAL.

- ### 3) CLEARING AND GRUBBING

STUMPS ARE TO BE CHIPPED IN PLACE AND ALLOWED TO DECOMPOSE.
PLACED IN NON STRUCTURAL FILL SECTIONS OR SHALL BE REMOVED TO
AN APPROVED STUMP DUMP.

- #### 4) SEEDING AND MULCHING

ALL AREAS WHERE THE NATURAL GROUND SURFACE HAS BEEN DISTURBED AND NATURAL VEGETATION REMOVED OR DESTROYED ARE TO BE SEEDED AND SOIL DISPLACEMENT BY EROSION BOTH DURING AND AFTER CONSTRUCTION, UNLESS OTHERWISE SPECIFIED IN THE LANDSCAPE PLAN. STANDARD SOIL CONSERVATION SEED MIX IS TO BE APPLIED AT A RATE OF 60 LBS. PER ACRE (TALL FESCUE, TAHERS, RED TOPSOIL - 4 LBS.), 10-10-10 HYDRAULIC APPLICATION PREPARED AT 3 OR 4 INCHES OF SOIL PER ACRE. MULCH CONSISTING OF RICE STRAW OR RICE HULL SHALL BE APPLIED OVER SEEDING AND EROSION PREVENTION SHALL BE APPLIED OVER SEEDING AND EROSION PREVENTION. ESTABLISHING A STRONG VEGETATIVE GROWTH IN ALL DISTURBED AREAS.

- 5) EROSION CONTROL DURING BUILDING CONSTRUCTION

ALL PLACES WHERE NATURAL VEGETATION IS REMOVED OR DESTROYED DURING CONSTRUCTION WILL BE SEEDED AND MULCHED SO AS TO PREVENT DISPLACEMENT OF SOIL BY EROSION. WORK TO BE PERFORMED IN THESE PHASES OF CONSTRUCTION WILL BE SCHEDULED IN SUCH A WAY TO INSURE EROSION WILL BE EFFECTIVELY CONTROLLED.

IN CASES OF PROLONGED INCLEMENT WEATHER LEADING TO RUNOFF, EXPOSURE OF NEW SOIL WILL BE TEMPORARILY HALTED, AND ANY ARE WHERE SOIL DISPLACEMENT BY EROSION IS OCCURRING WILL BE PROTECTED BY METHODS SUCH AS MULCHING, HAY BALES, DIVERSION DITCHES, ETC.

- ## 6) COMMENCEMENT AND COMPLETION

ALL WORK INVOLVING EROSION, LANDSCAPING OR ANY OTHER DISTURBANCES OF THE GROUND SURFACE RESULTING IN THE REMOVAL OF VEGETATION SHALL BE COMPLETED BY THE END OF APRIL, 1 AND ALL AREAS SO DISTURBED MUST BE FINISH GRADED, SEEDED AND MULCHED OR TEMPORARILY SEEDED AND MULCHED PRIOR TO NOVEMBER 15. SHOULD THERE BE A NEED TO EXTEND BEYOND NOVEMBER 15, THE DISTURBED AREAS MUST BE RESEED AND MULCHED. ALL WORK SHALL BE SUBJECT TO THE REVIEW AND APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND OTHER APPLICABLE AGENCIES. PERMITS, PROCESSSES SUCH AS THE PLACEMENT OF REINFORCING ETC., WILL BE ACCOMPLISHED OUTSIDE OF THESE INCLUSIVE DATES.

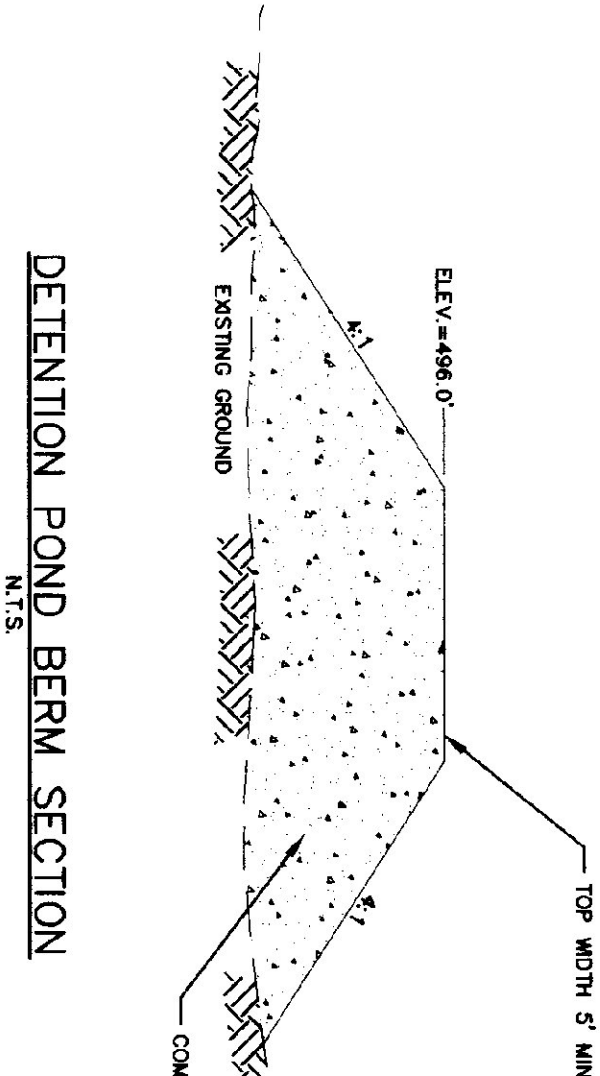
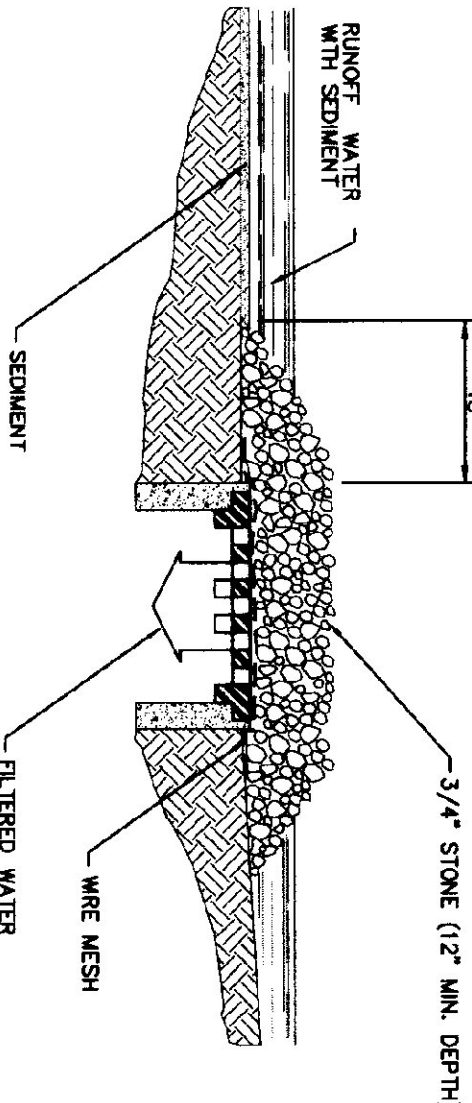
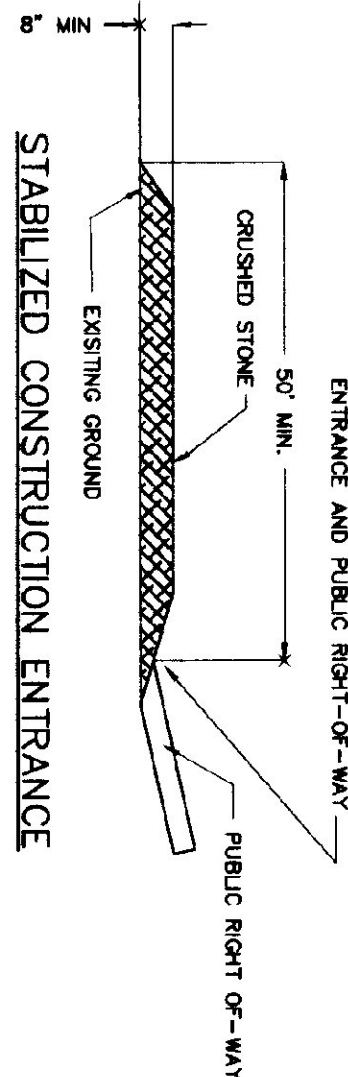
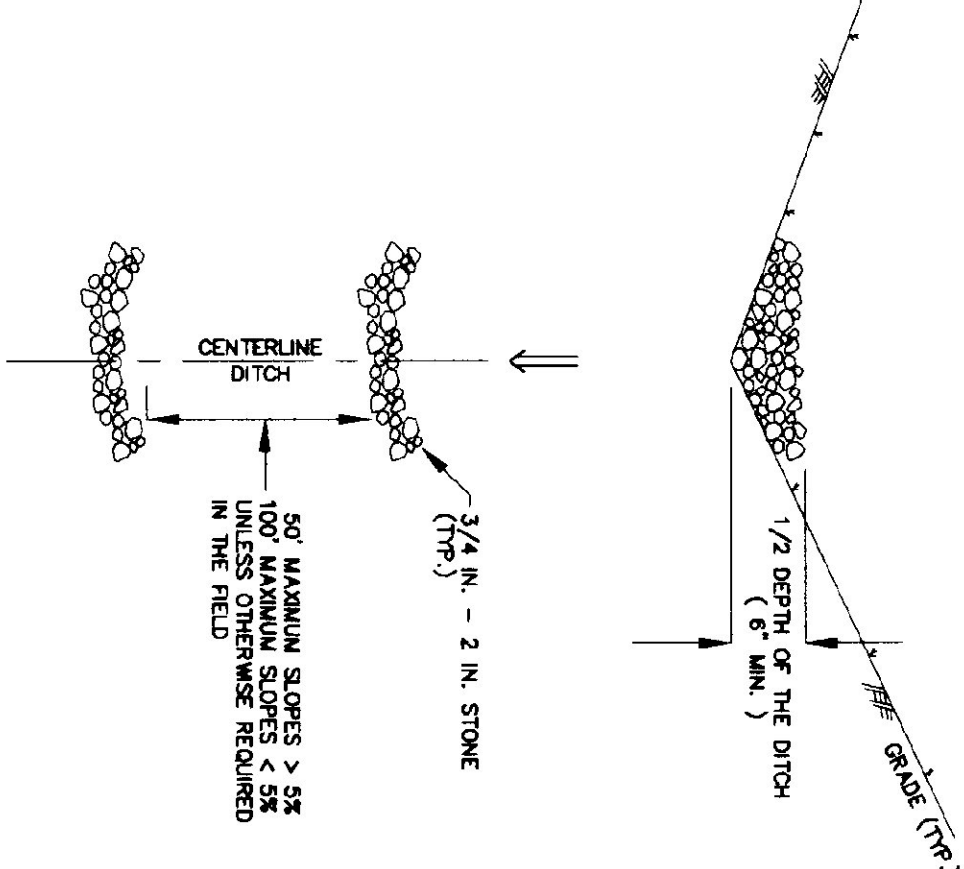
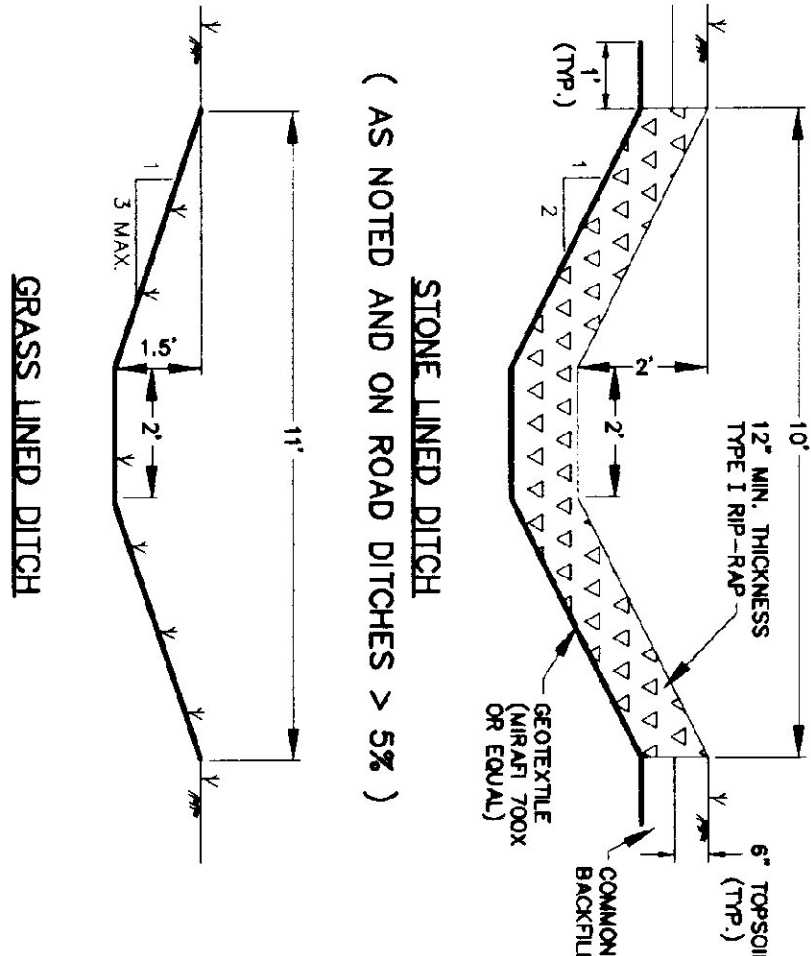
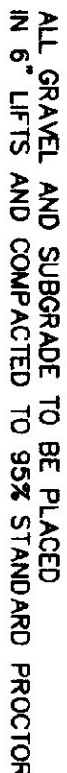
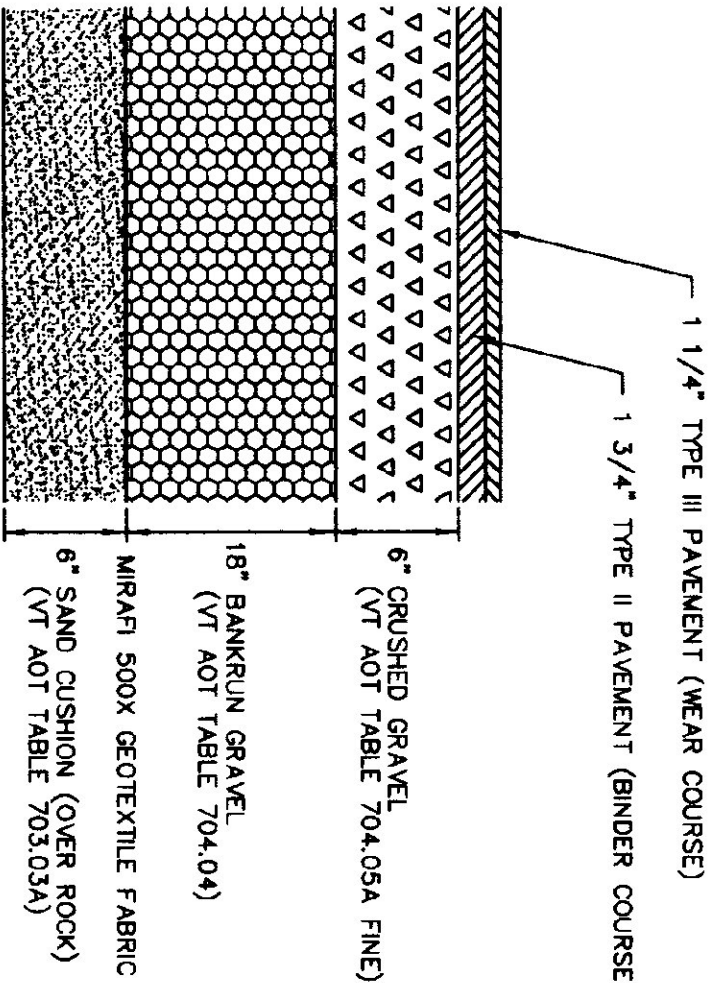
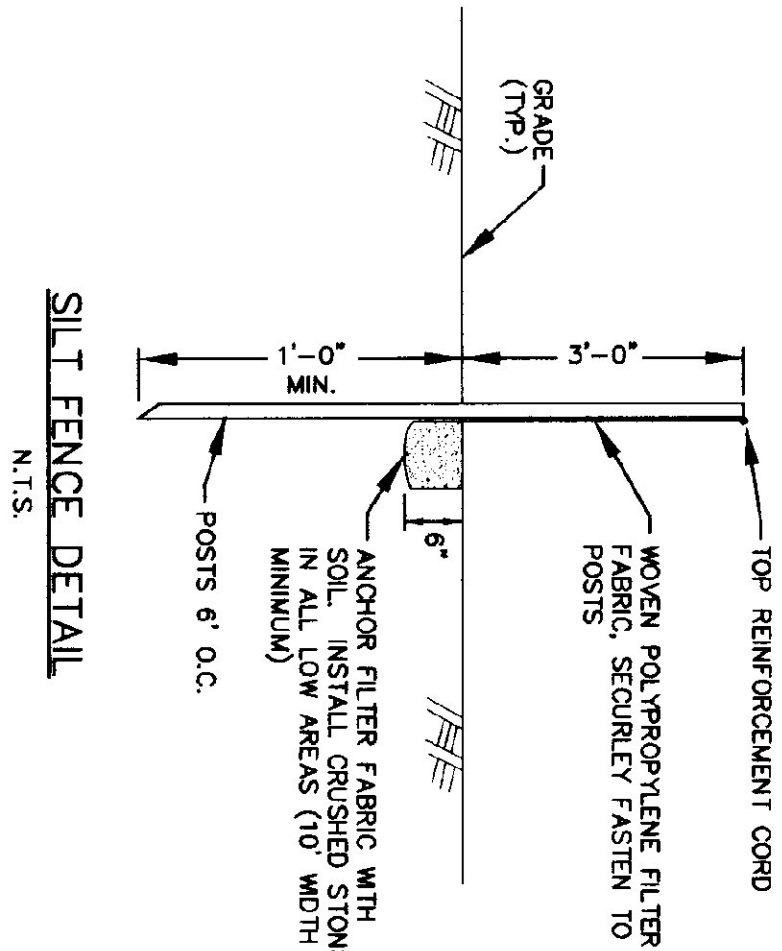
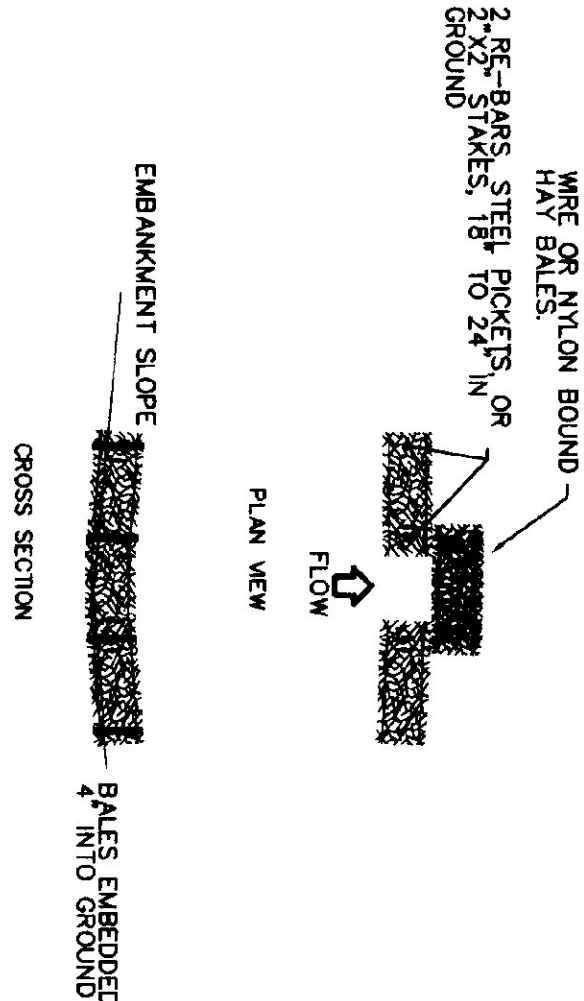
- 7) DUST CONTROL

CALCIUM CHLORIDE OR WATER WILL BE USED AS NEEDED TO CONTROL DUST.

AT THE END OF EACH DAY OR PRIOR TO CONSTRUCTION SHUTDOWNS FOR WEEKENDS OR FOR LONG PERIODS, ALL EROSION CONTROL MEASURES WILL BE INSPECTED AND MAINTENANCE THAT WOULD BE REQUIRED, BE PERFORMED IN ORDER TO ENSURE THAT THE ENTIRE EROSION CONTROL SYSTEM WOULD FUNCTION PROPERLY DURING A RAINFALL EVENT.

IN THE EVENT THAT AN UNUSUAL RAINFALL EVENT OCCURS DURING NON-WORKING HOURS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT THE EROSION CONTROL MEASURES (WHILE IT IS RAINING) AND TAKE WHATEVER MEASURES THAT ARE NECESSARY WHERE EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY.

THE VERMONT HANDBOOK OF SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES (1982) HAS SERVED AS A GUIDE IN THE DESIGN OF THIS PROJECT.



NO	REVISIONS	DATE
1.	PERMIT PLANS MFD	2/28/97
2.	CONSTRUCTION PLANS MFD	7/2/97
3.	CONSTRUCTION PLANS II MFD	7/9/97

MISCELLANEOUS DETAILS
FOR
VERMONT AOT MAINTENANCE GARAGE
IN
BRANDON, VERMONT

BRUNO ASSOCIATES INC. P.C.
ENGINEERS, PLANNERS, SURVEYORS
PO BOX 387, THE MILL BUILDING
WOODSTOCK, VERMONT 05091

PHONE: (802) 457-3560 FAX: (802) 457-4853

FOR
CONSTRUCTION

VERMONT
AOT
MISCELLANEOUS

7 OF 23

BRUNO ASSOCIATES INC., P
LE:
\\JOES\BRANDON\97-41\AOTD
PROJECT: 970041
VAQT SHED

REVISIONS			DATE
NO.			
1.	PERMIT PLANS	MFD	2/28/97
2.	CONSTRUCTION PLANS	MFD	7/2/97
3.	CONSTRUCTION PLANS II	MFD	7/9/97

EROSION CONTROL PLAN
FOR
VERMONT AOT MAINTENANCE GARAGE
IN
BRANDON, VERMONT

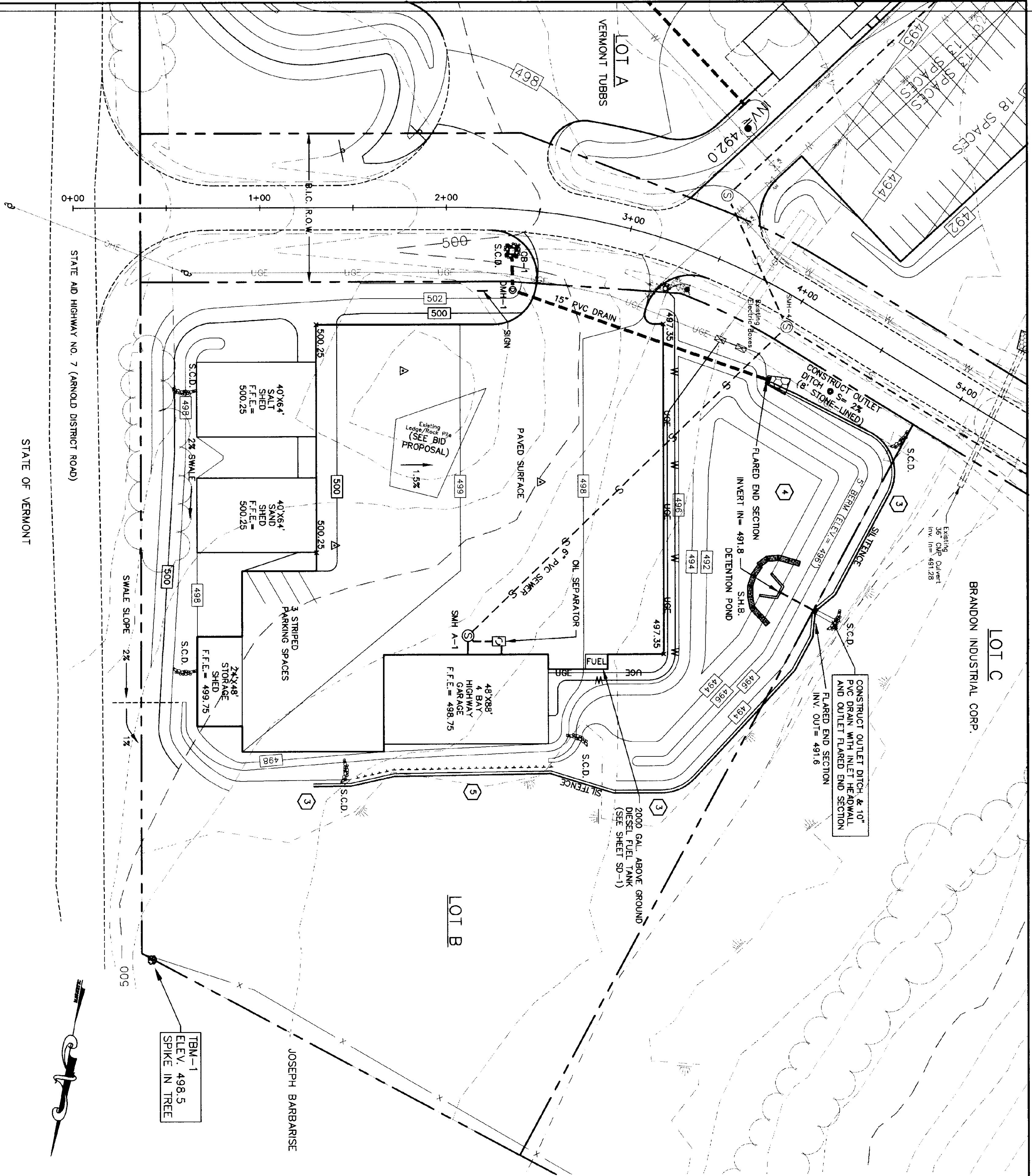
BRUNO ASSOCIATES INC. P.C.
ENGINEERS, PLANNERS, SURVEYORS
PO BOX 387, THE MILL BUILDING
WOODSTOCK, VERMONT 05091
PHONE: (802) 457-3560 FAX: (802) 457-4853

FOR
CONSTRUCTION

SURVEYED: OTHERS
DESIGNED: ESC, DAN
DRAWN: AND
CHECKED: AND
DATE: 11/24/96
VERMONT AOT
EROSION CONTROL
C7 8 OF 23
© 1997
BRUNO ASSOCIATES INC., P.C.
115
C:\VBRUNO\BRUNO\97-41\AOT-PL
PROJECT: 970041
W/OT SHED

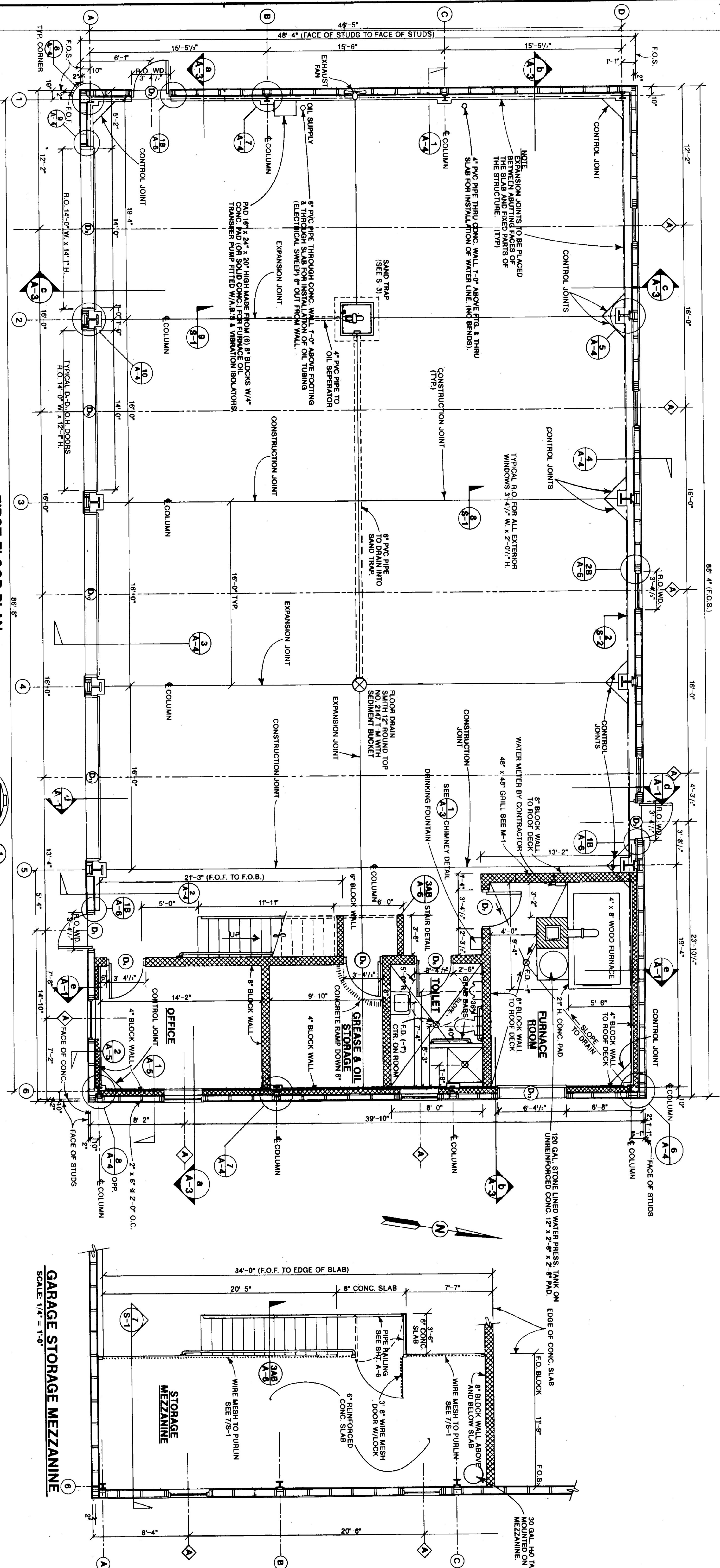
- CONSTRUCTION NOTES:
- 1) UTILIZE THIS PLAN SHEET FOR THE INSTALLATION OF EROSION CONTROL ONLY.
 - 2) SEE SHEET C1 FOR GENERAL AND CONSTRUCTION NOTES.
 - 3) CONTRACTOR SHALL INSTALL SILTENCE PRIOR TO COMMENCING ANY EARTHWORK. SILTENCE ON PLAN SERVES THE DUAL PURPOSE OF SEDIMENT CONTROL AND PROTECTING AGAINST UNNECESSARY DISTURBANCE OF WETLANDS. FAILURE TO PROPERLY INSTALL AND MAINTAIN SILTENCE TO SERVE THESE FUNCTIONS MAY EXPOSE CONTRACTOR TO STATE AND FEDERAL PENALTIES.
 - 4) CONTRACTOR SHALL CONSTRUCT DETENTION POND (AFTER SILTENCE) PRIOR TO ANY EARTHWORK. POND SHALL SERVE AS TEMPORARY SEDIMENTATION BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED.
 - 5) EXCAVATE SHALLOW SWALE TO DIRECT RUNOFF TO DETENTION POND. SWALE SIDE SLOPES TO BE 2:1 IN THIS AREA TO AVOID/MINIMIZE DISTURBANCE TO THE WETLANDS.

LEGEND	
	SURVEY POINT
	FIRE HYDRANT
	WATER VALVE
	WATER SHUT OFF
	CATCH BASIN
	DRAIN MANHOLE
	SEWER MANHOLE
	UTILITY POLE
	FLARED END SECTION
	BOUNDARY LINE
	WIRE FENCE
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	WETLAND BOUNDARY
	GRAVITY SEWER
	WATER LINE
	STONE CHECK DAM
	STAKED HAYBALE
	SILT FENCE



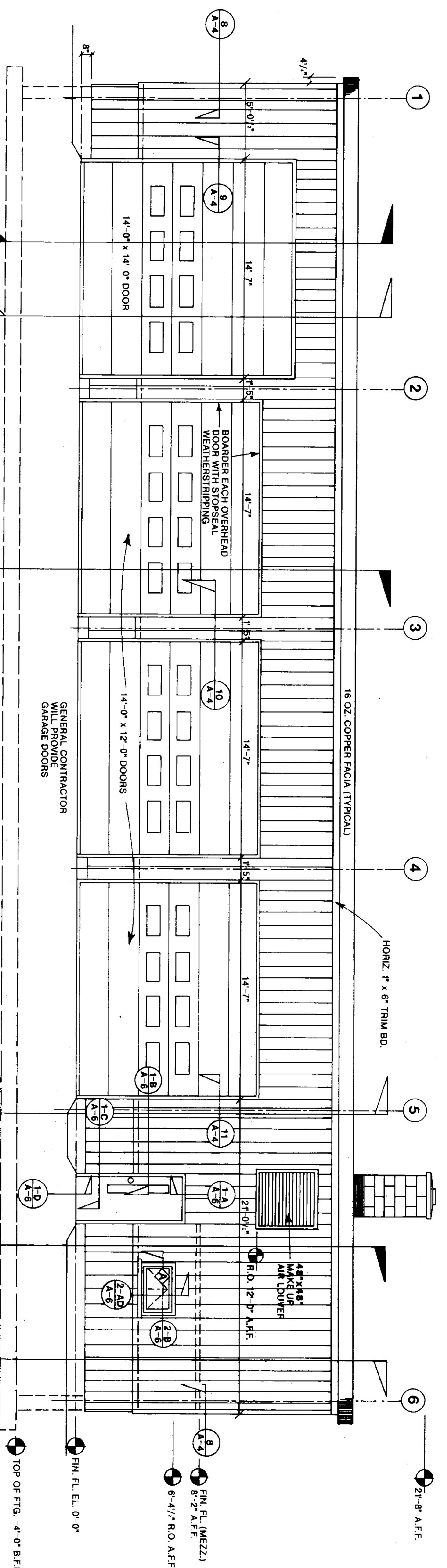
SITE PLAN
SCALE: 1" = 30'

SCALE: 1" = 30'

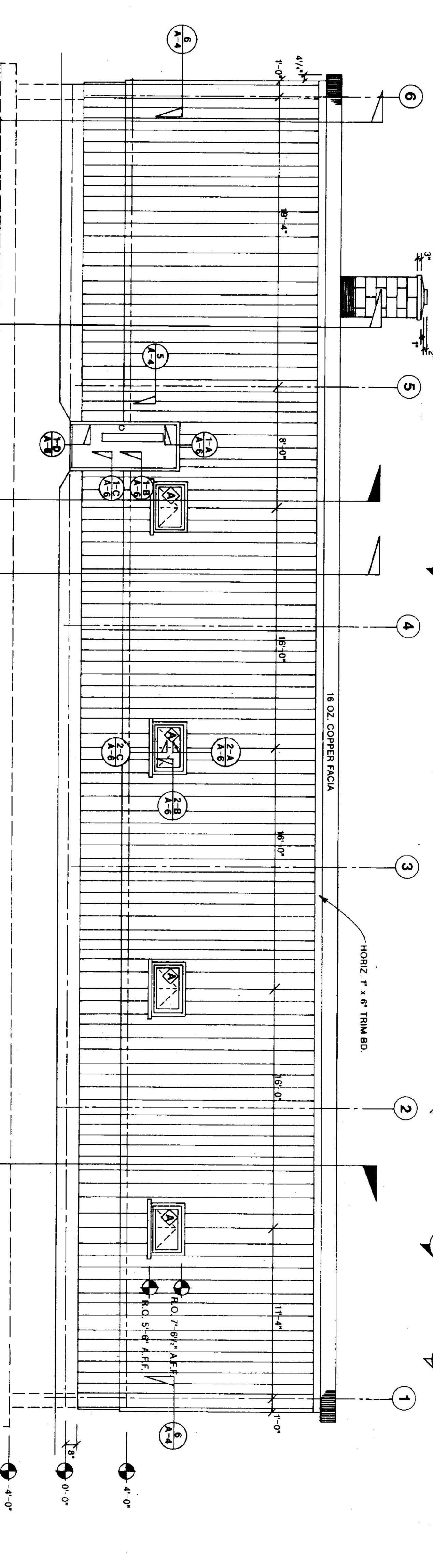


STATE OF VERMONT			
DEPARTMENT OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
VERMONT AGENCY OF TRANSPORTATION			
FIRST FLOOR/MEZZANINE			
PLANS & SECTIONS			
4 BAY MAINTENANCE GARAGE			
BRANDON, VERMONT			
DATE: JUNE 1997	SCALE: 1/4" = 1'-0"	REVISIONS:	DWG. NO. A-1
DRAWN BY: A. POULIN	APPROVED BY:		9 OF 23

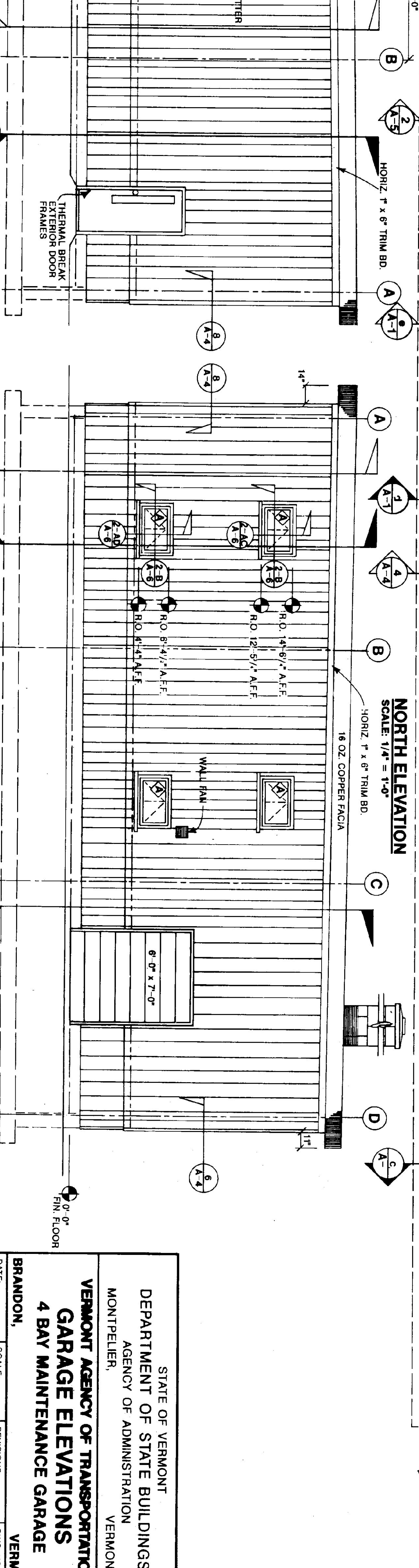
- ABBREVIATIONS**
- A.F.F. ABOVE FINISHED FLOOR
A.B. ANCHOR BOLT
B.T. BITUMINOUS
C.B. CARRIAGE BOLT
CTR. CENTER
COLS. CONCRETE MASONRY UNIT
C.M.U. EACH WAY
E.W. FACE OF BLOCK
F.O.B. FACE OF STUDS
F.O.S. FLOOR CLEAN OUT
F.C.O. FLOOR DRAIN
F.D. GUAGE
GA. HORIZONTAL
HORIZ. ON CENTER
O.C. OPPOSITE
OPP. RADIUS
O.S.B. ORIENTED STRAND BOARD
RAD. TOP & BOTTOM
R.O. WD. VAPOR BARRIER
T. & B. VERT.
V.B. WALL CLEAN OUT
W.C.O.



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



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



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

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

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

VERMONT AGENCY OF TRANSPORTATION
4 BAY MAINTENANCE GARAGE

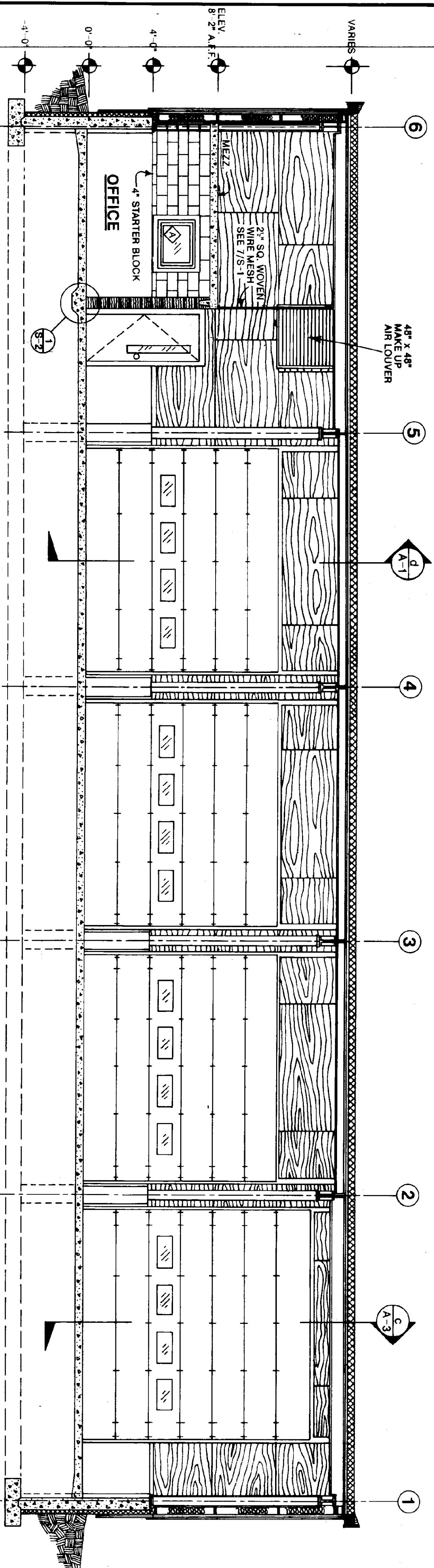
BRANDON, VERMONT

DATE: JUNE 1997
DRAWN BY: A. POULIN

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

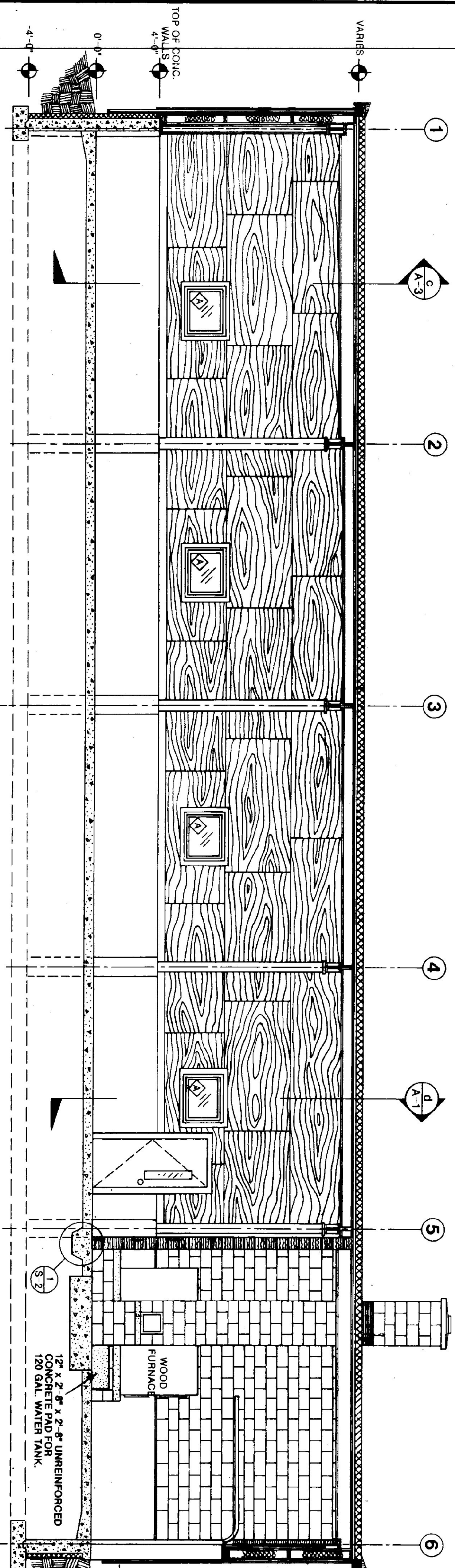
REVISIONS:

DWG. NO. A-2
10 OF 23

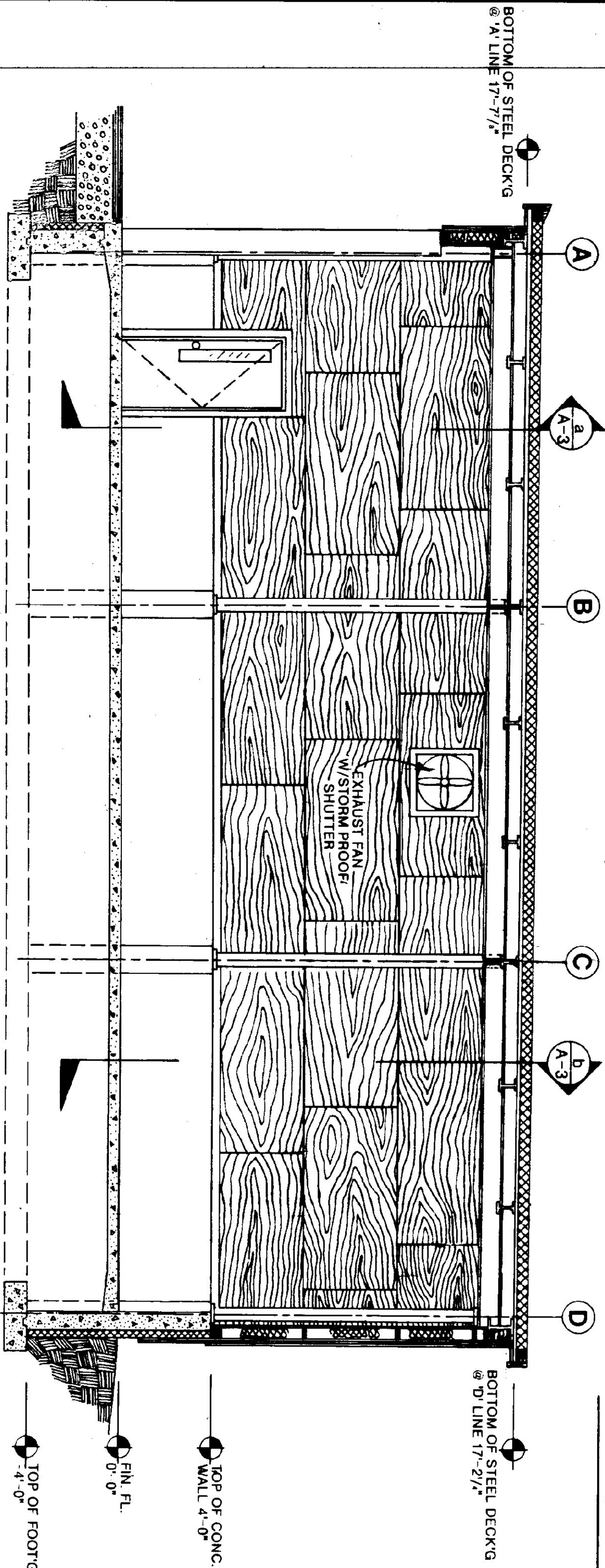


INTERIOR ELEVATION/SECTION (LOOKING TOWARD "A" LINE)

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



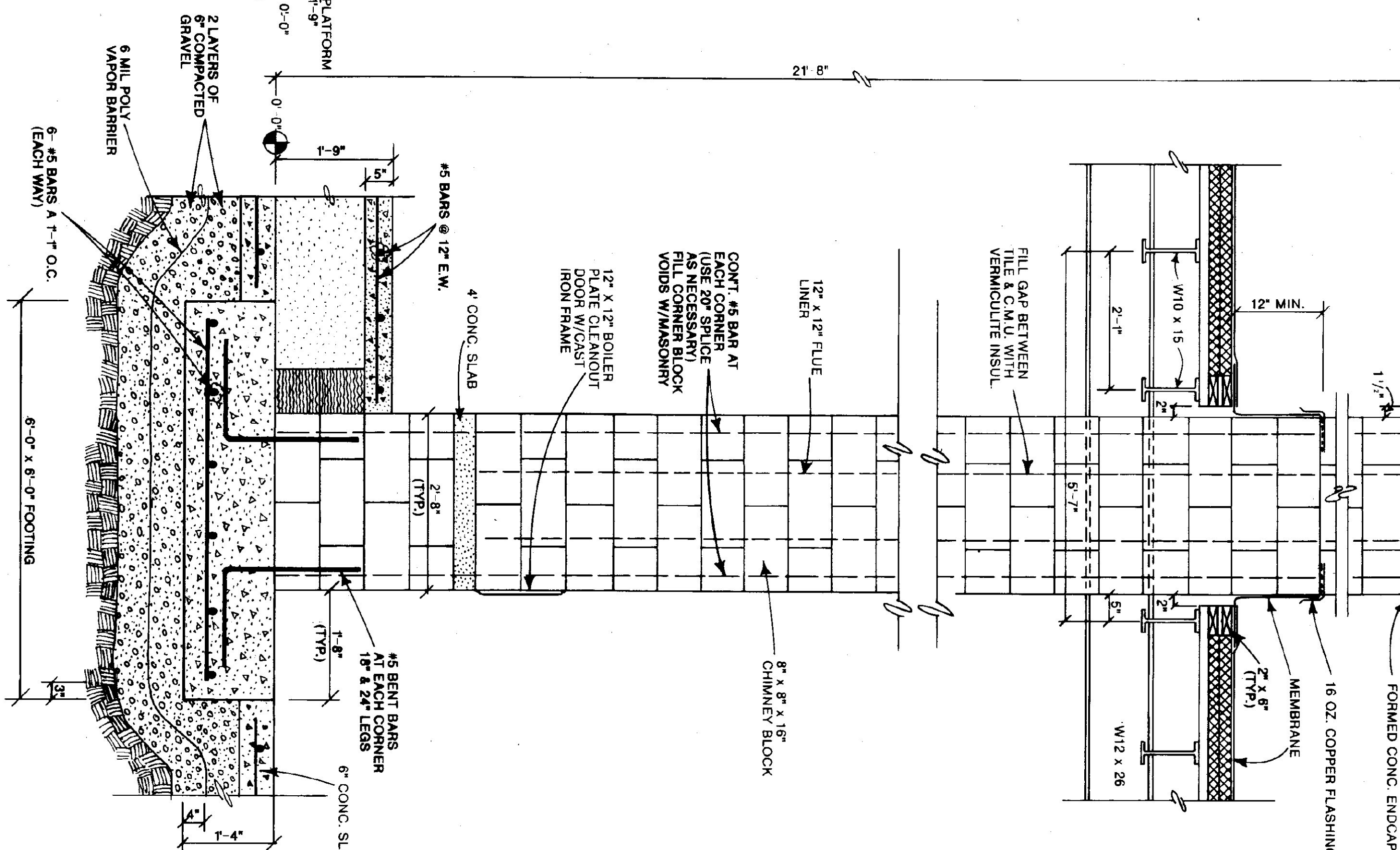
INTERIOR ELEVATION/SECTION (LOOKING TOWARD "D" LINE)



INTERIOR ELEVATION/SECTION (LOOKING TOWARD #1 COL. LINE)

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

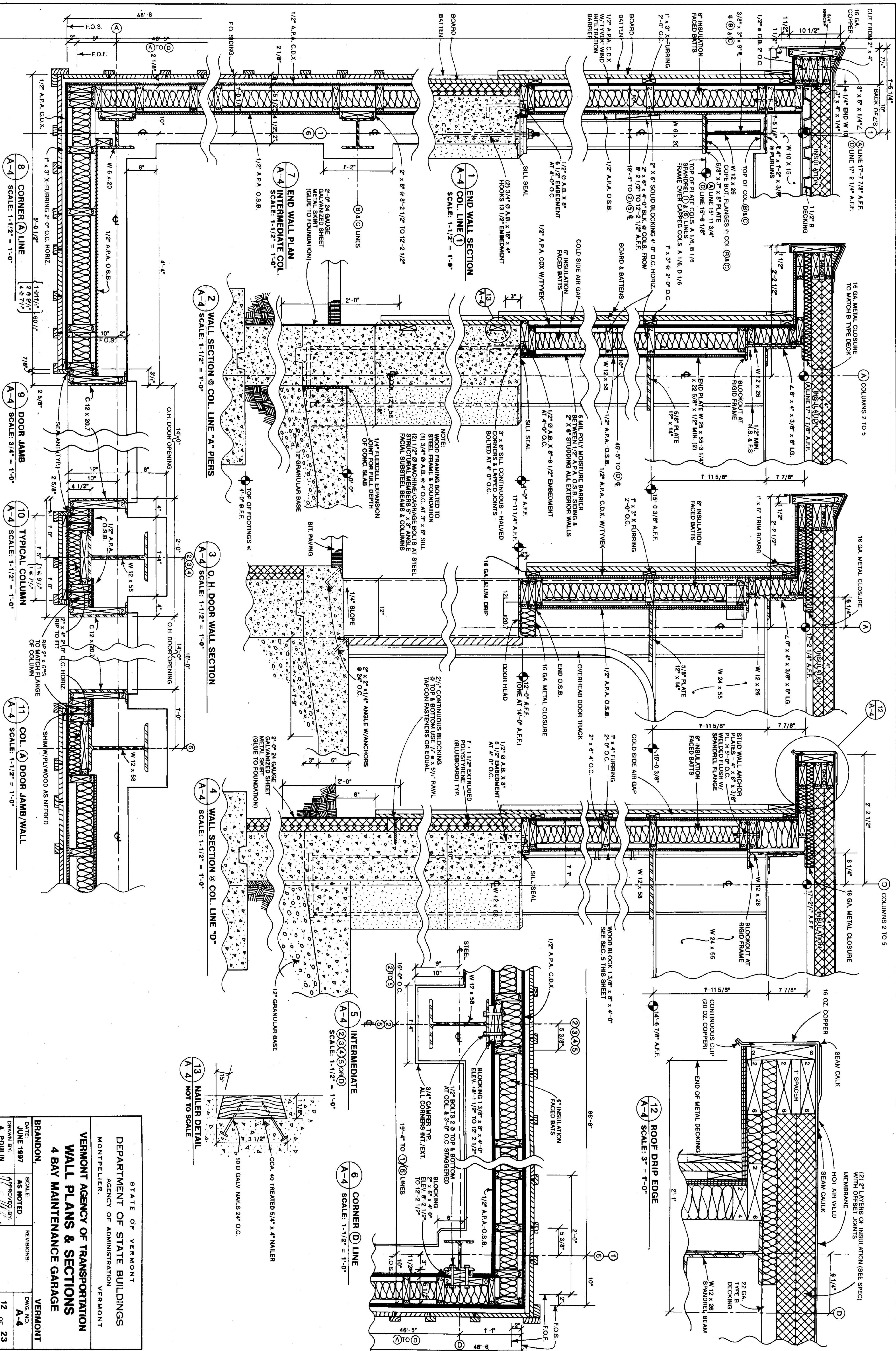
- NOTES FOR CHIMNEY ABOVE ROOF:
1. APPLY BONDING AGENT TO REINFORCED CONCRETE CHIMNEY WALLS (TOP & SIDES INCLUDED)
 2. CHIMNEY MASTER (TOP & SIDES INCLUDED)
 3. SEAL W/CLEAR MASONRY SEALER.

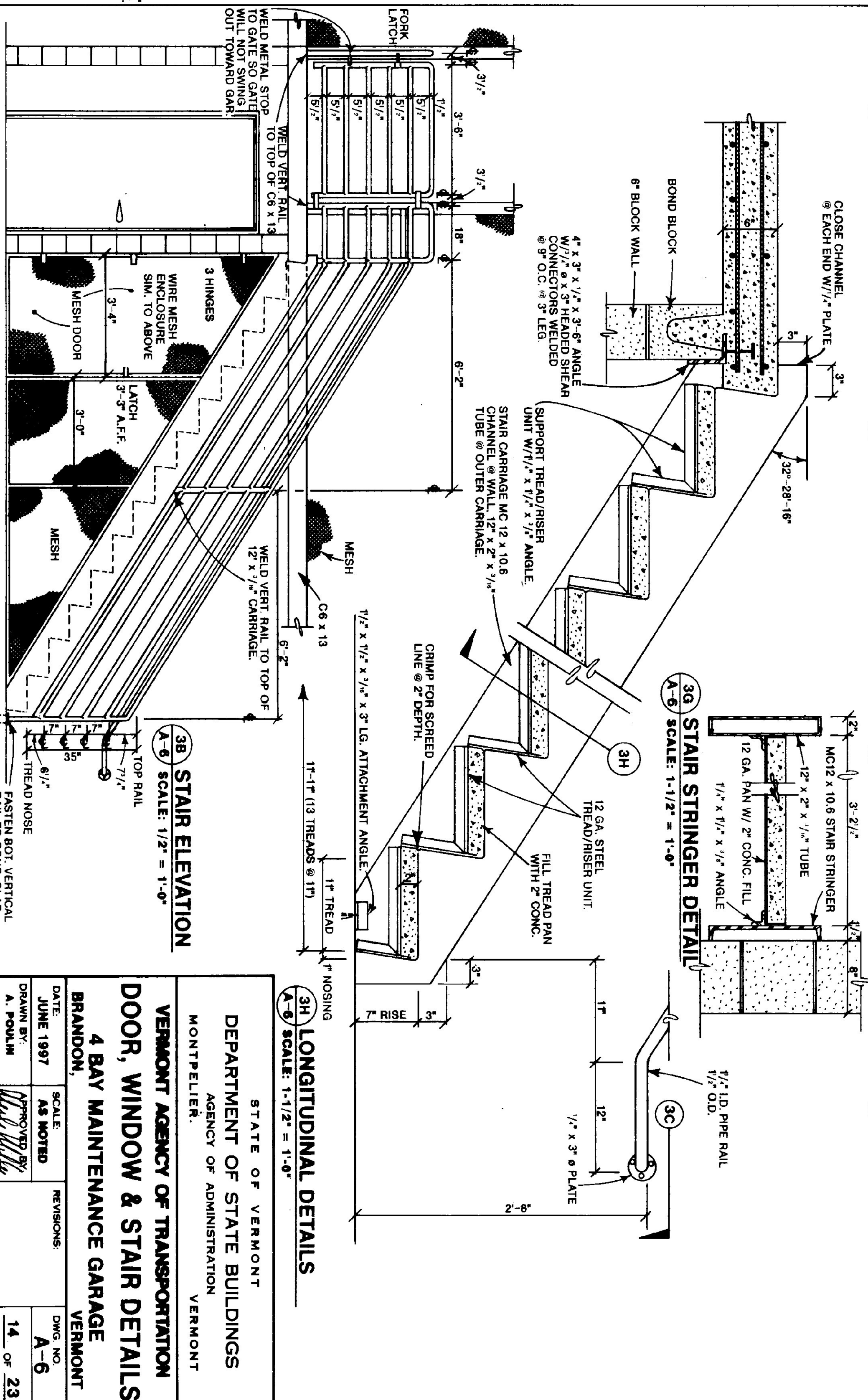
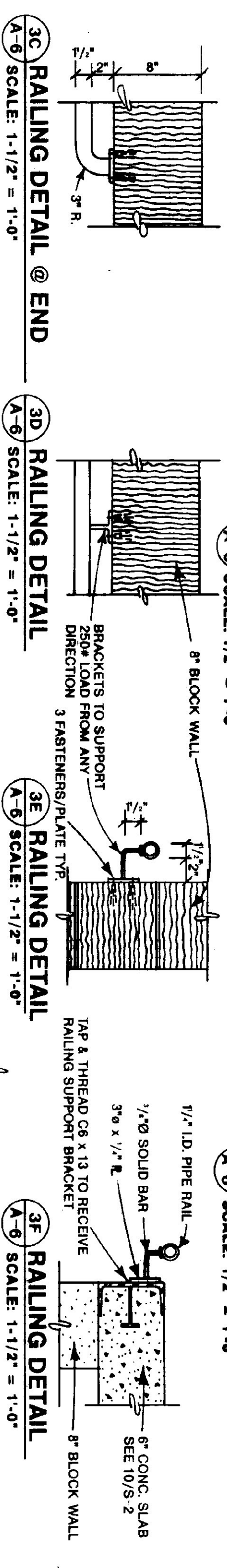
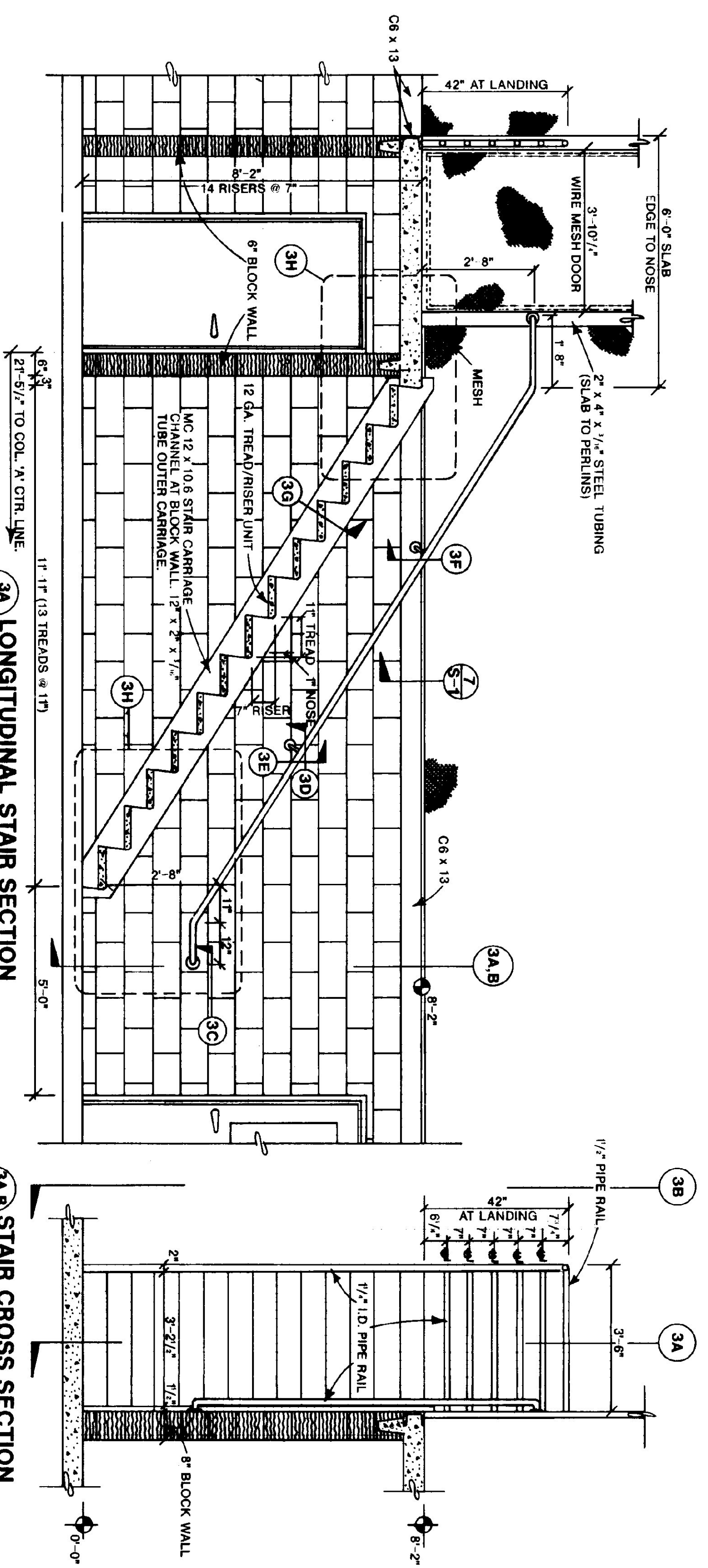
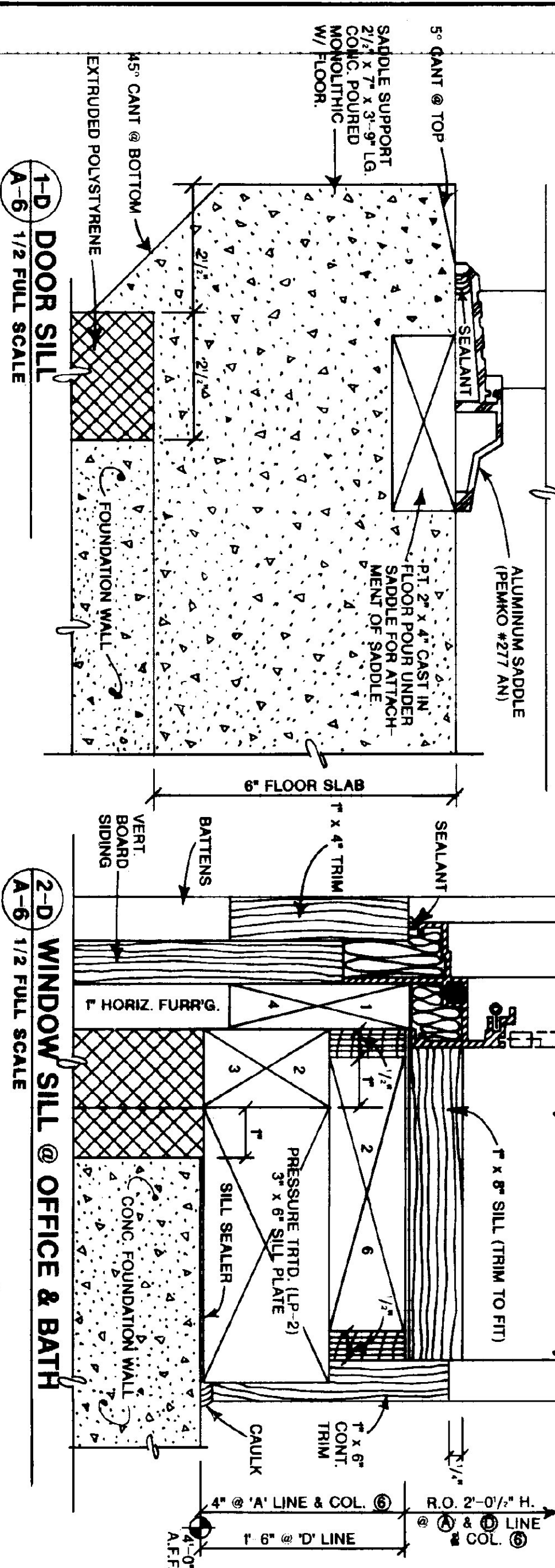
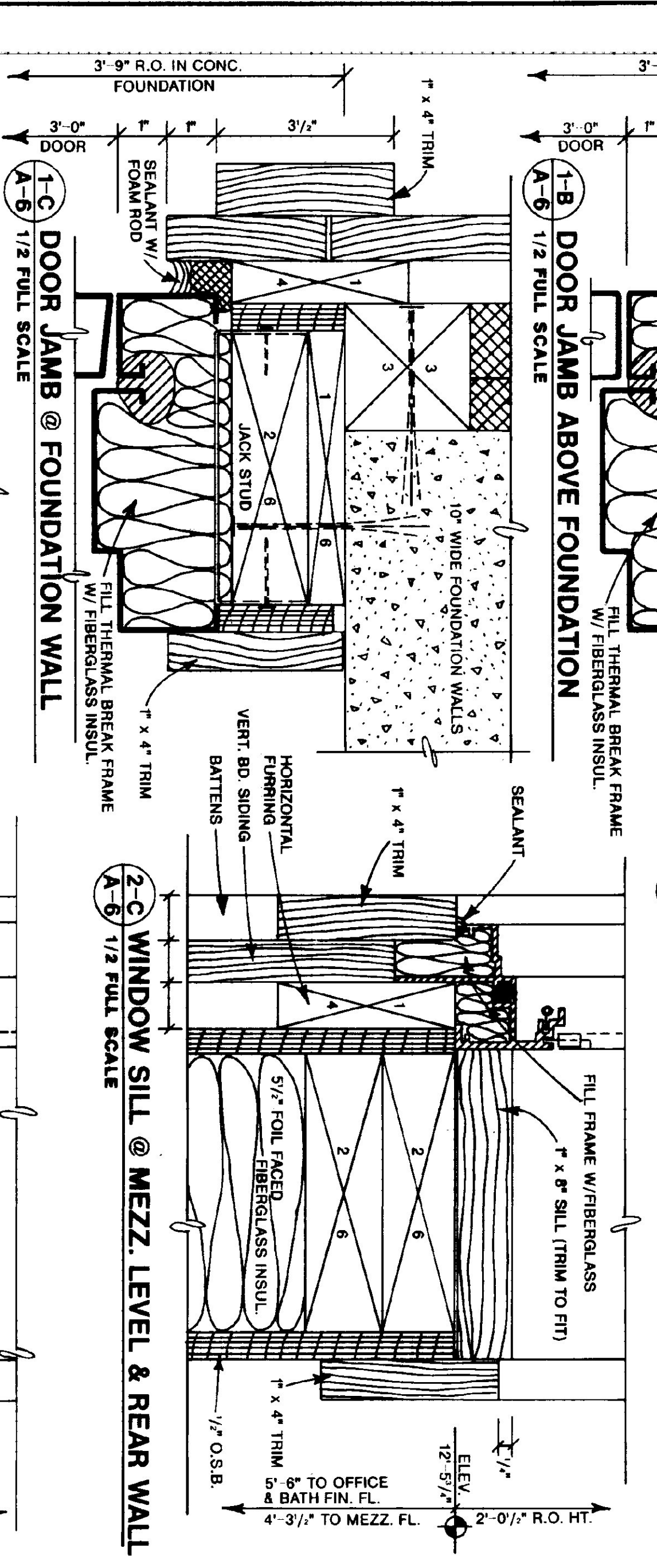
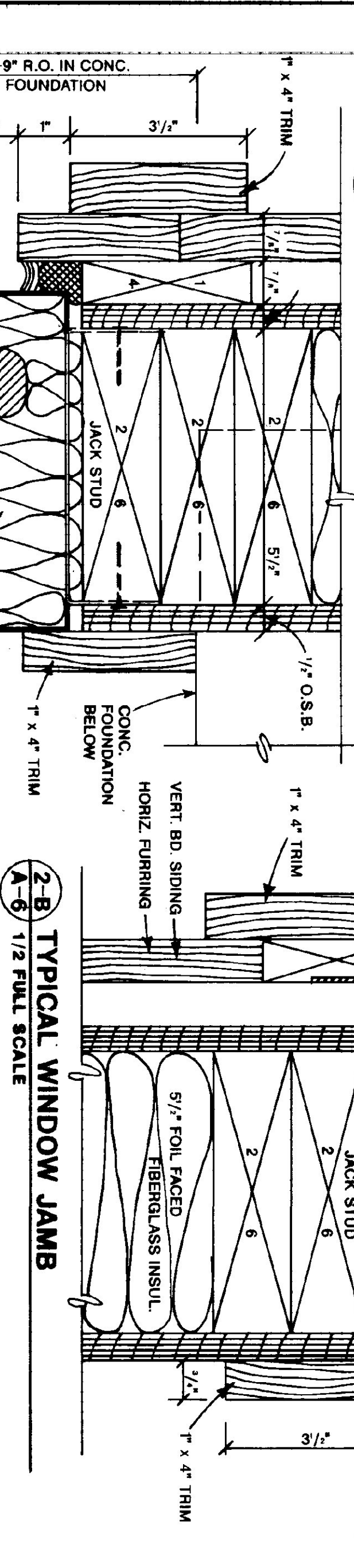
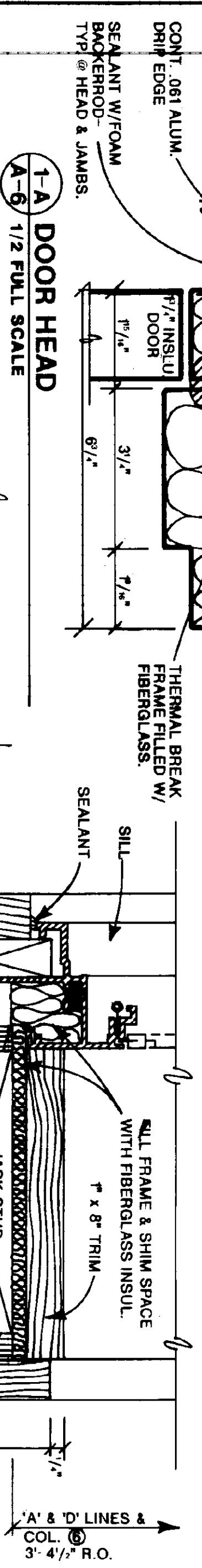
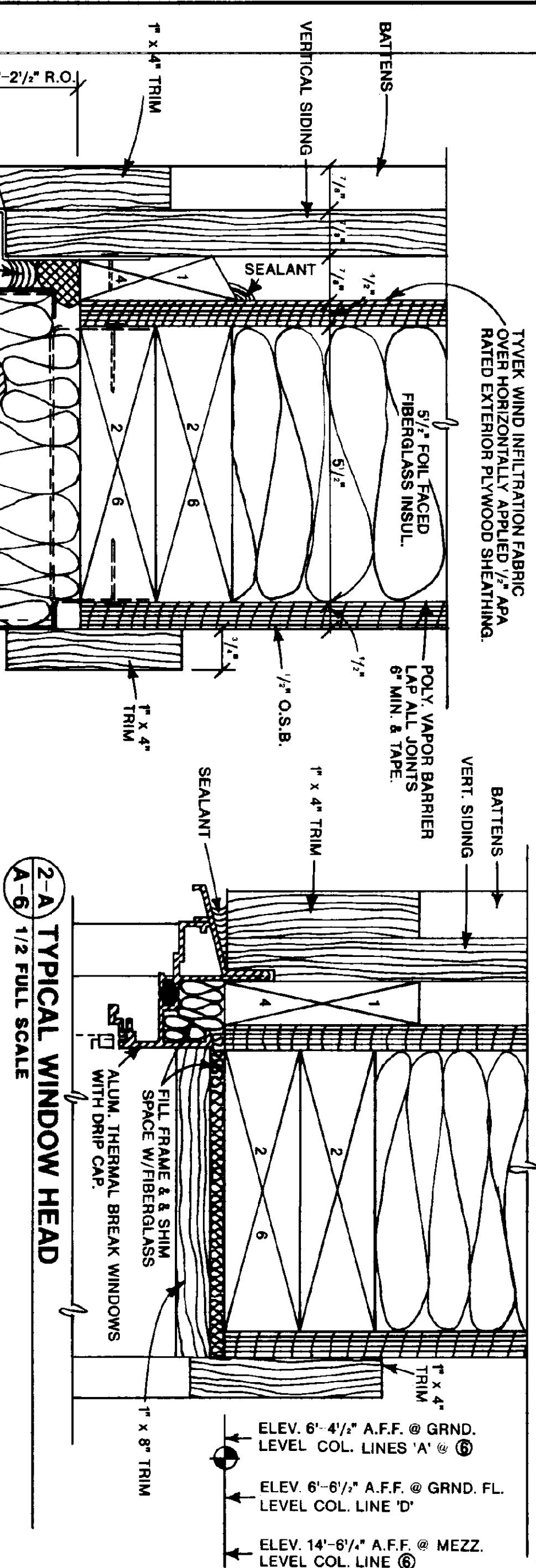


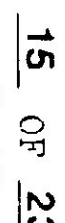
1 CHIMNEY SECTION/ELEVATION

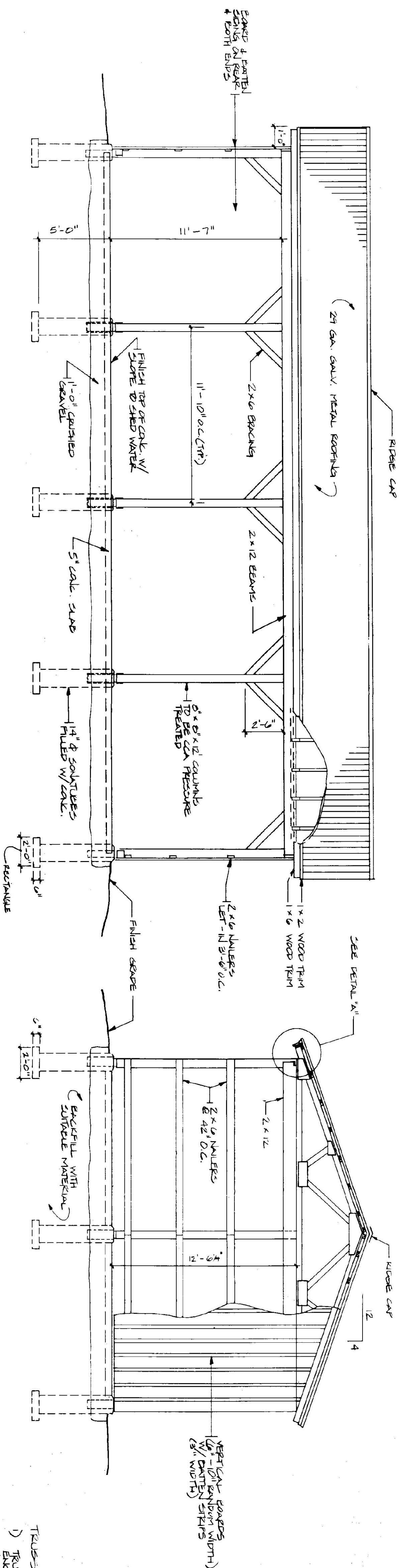
SCALE: 3/4" = 1'-0"

STATE OF VERMONT			
DEPARTMENT OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
VERMONT DEPARTMENT OF TRANSPORTATION			
INTERIOR AND CHIMNEY			
SECTIONS/ELEVATIONS			
4 BAY MAINTENANCE GARAGE			
VERMONT			
BRANDON,			
DATE:	JUNE 1997	SCALE:	AS NOTED
DRAWN BY:	A. POULIN	APPROVED BY:	
REVISIONS:		DWG. NO.	A-3
			11 OF 23









FRONT ELEVATION

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

END ELEVATION

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

DOOR DETAIL

N.T.S. (TYPICAL OF 4)

TRUSS NOTES

- 1) TRUSS MANUFACTURER TO PROVIDE THE COST OF ERECT BUILDING AND FINISHES A SET OF DIMENSIONED & SIZED DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANUFACTURE.
- 2) TRUSS MANUFACTURER TO PROVIDE THE CONTRACTOR WITH ALL MATERIALS AND INSTRUCTIONS FOR PROPER TRUSS INSTALLATION, ANCHORAGE, BRACING, LIFTING, ETC.
- 3) TRUSS DESIGN CORP. IN ACCORDANCE WITH THE 1987 B.O.C.A. WOOD DESIGN.

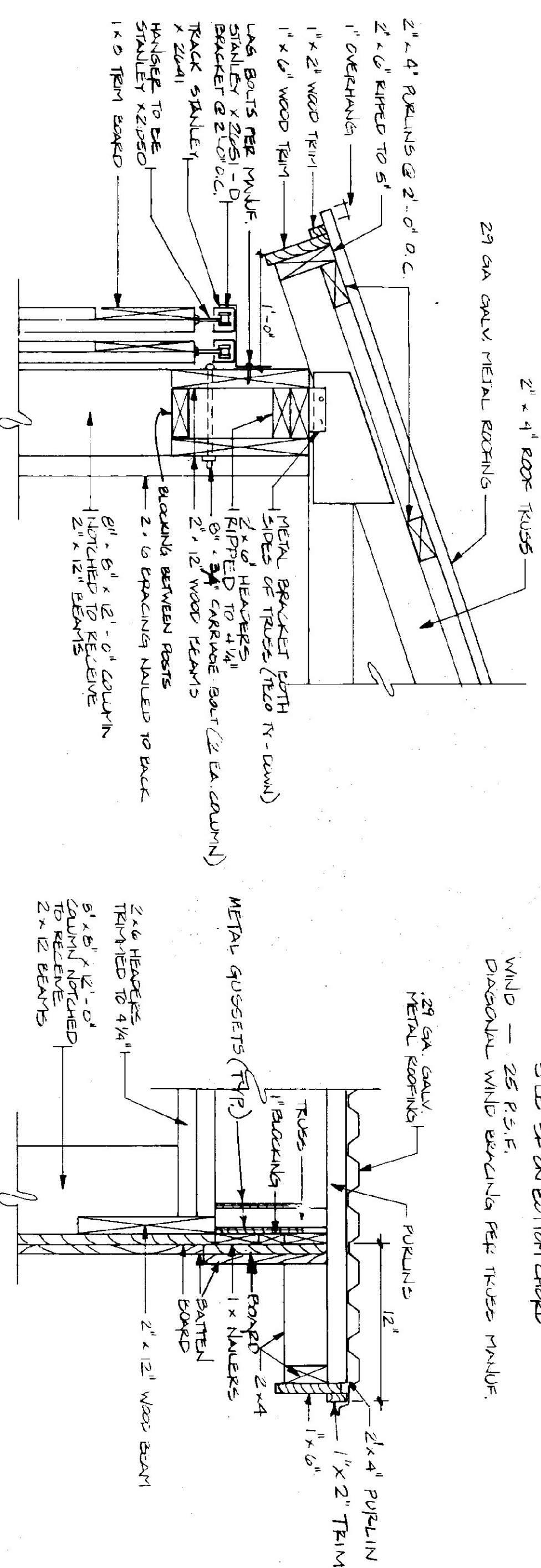
MINIMUM LEAPS:

LVE - FEB 1981 B.O.C.A FOR VT (50 P.S.F. MIN.)

DEAD — AS CALCULATED FROM TRUSS & ROOF MATERIALS

0
E
F

DIAGONAL WIND BRACING TRUSS MEMBER.

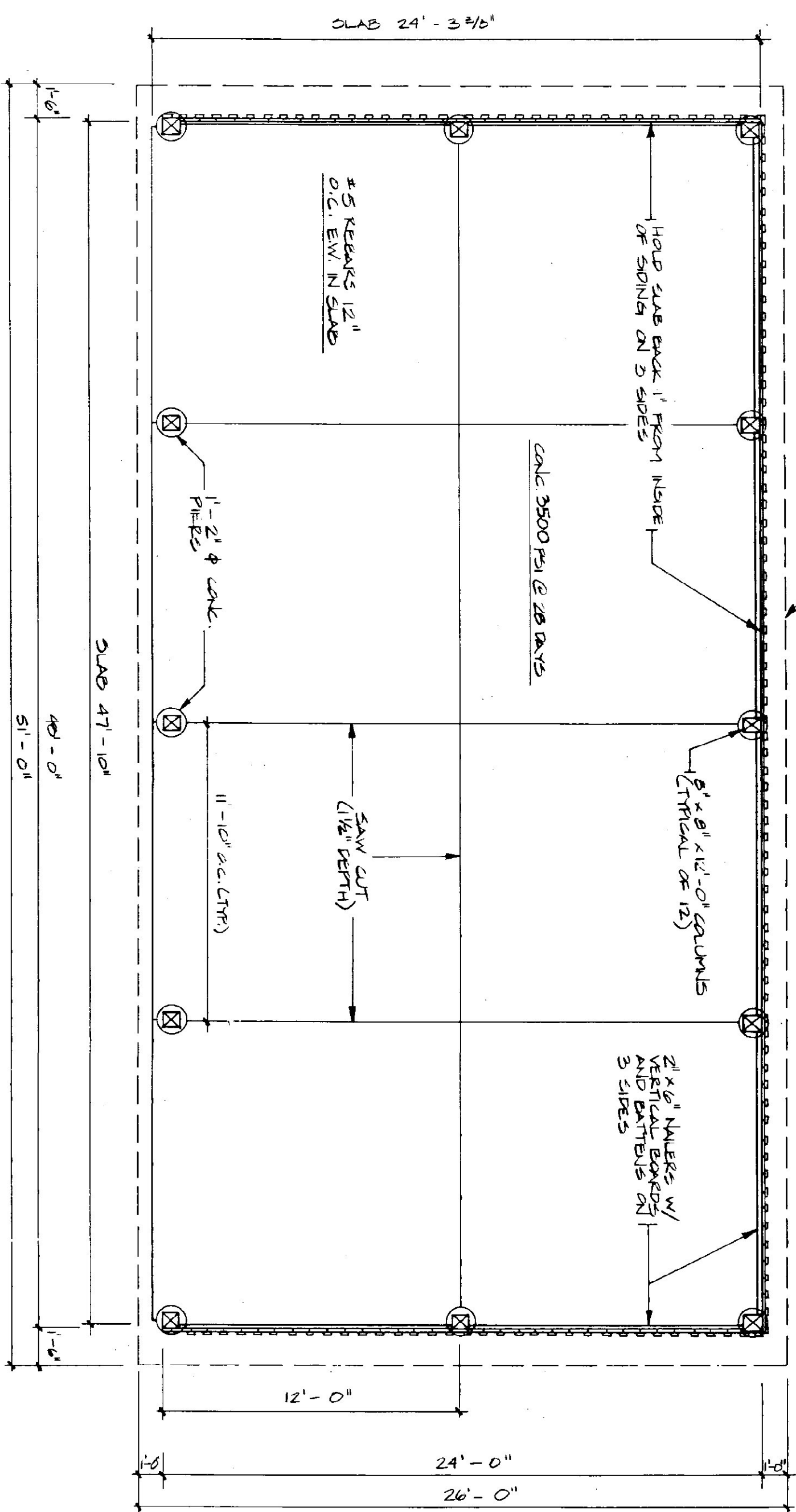


RAKE DETAIL

SCALE: 1 1/2" = 1'-0"

DETAIL "A"

SCALE: 1 1/2" = 1'-0"

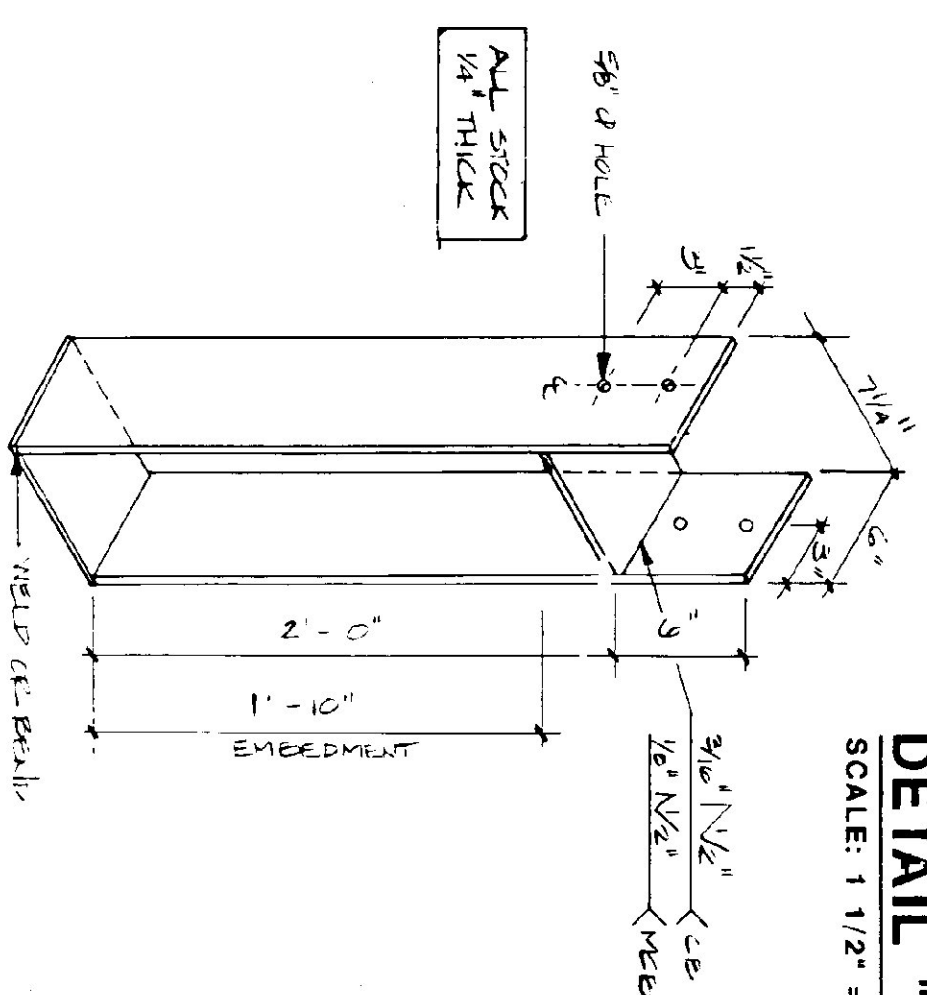


SHED PLAN

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

NOTE:

USE # 5 KEAPPS @ 1'-0" O.C.
EACH WAY WITH 2" COVER



COLUMN BASE ANCHOR

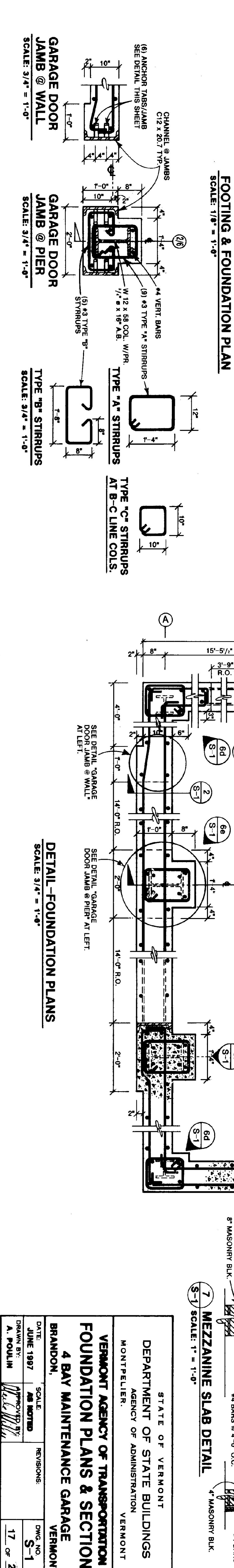
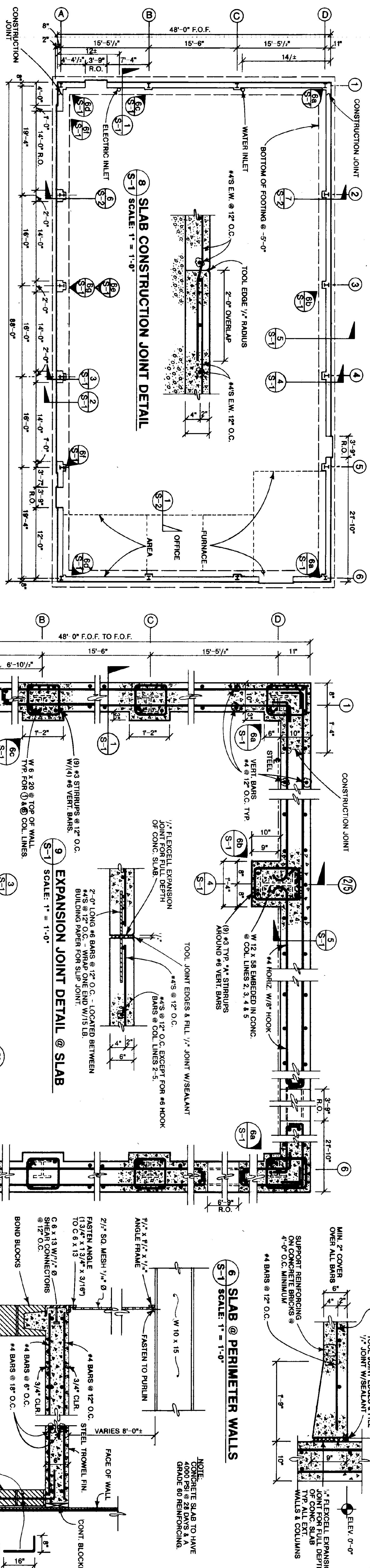
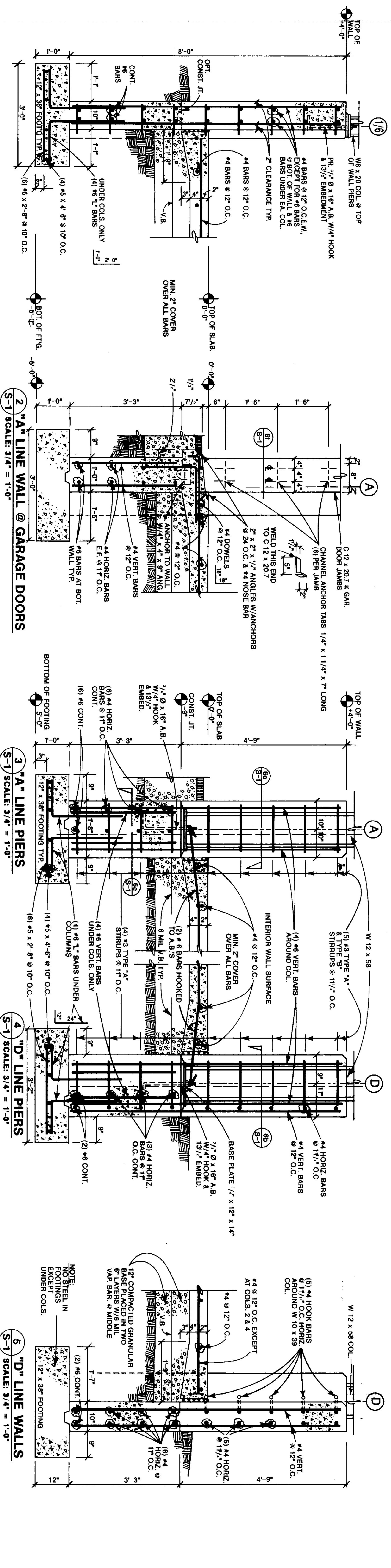
SCALE: 1 1/2" = 1'-0"

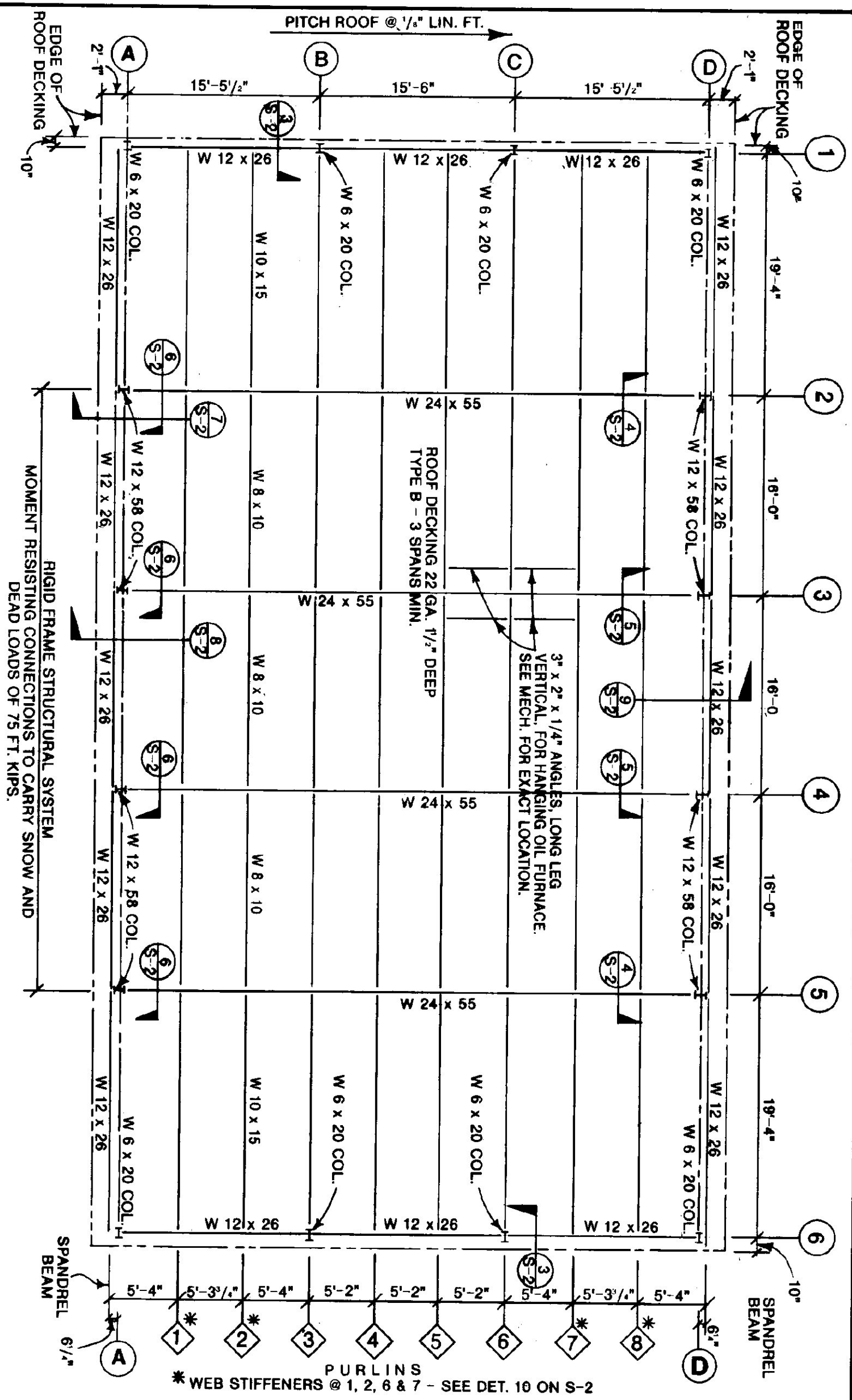
- 1) FRAMING MEMBERS TO BE KILN DRIED CONSTRUCTION GRADE SPALD 50'S 19% PLATES & NAILS IN CONTACT WITH CONCRETE TO BE CCA OR TREATED.
 - 2) GRADED & BATTEN SHOULD BE UNLATCHED BEING INSTALLED WITH 1" BATTEN WIDTH 3" I.P.
 - 3) GRADED SPINDS & BATTEN SHOULD TO BE FULL LENGTH WITH NO HORIZONTAL JOINTS.
 - 4) ALL NAILS TO BE GALVANIZED.
- FINISH NOTES:
- 1) ALL BOARDS & BATTENS TO BE STAINED IN PLACE ON ALL SIDES PRIOR TO INSTALLATION.
 - 2) AFTER INSTALLATION EXTERIOR SURF. TO RECEIVE ONE ADDITIONAL COAT OF STAIN.
 - 3) STAIN TO BE GUMPH'S OIL BASED 70'S-1.
 - 4) TRANSPARENT OXIDIS BROWN # 313-1.

FINISH NOTES:

1. ALL BOARDS & BATTENS TO BE STAINED WITH ONE COAT ON ALL SIDES PRIOR TO INSTALLATION.
- 2) AFTER INSTALLATION, EXTERIOR SIDING IT RECEIVE ONE ADDITIONAL COAT OF STAIN
- 3) TRANSFER TO BE OLYMPIC OIL BASE SEMI TRANSPARENT OXFORD BROWN # 713.

STATE OF VERMONT			
DEPARTMENT OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER.		VERMONT.	
AGENCY OF TRANSPORTATION			
24'X48' STORAGE SHED			
BRANDON MAINTENANCE FACILITY			
BRANDON			
DATE	JUNE 1997	SCALE	AS NOTED
DRAWN BY	B. MANDY	APPROVED BY	P. MANDY
REVISIONS:		Dwg. NO.	
		A-8	
		16 OF 23	

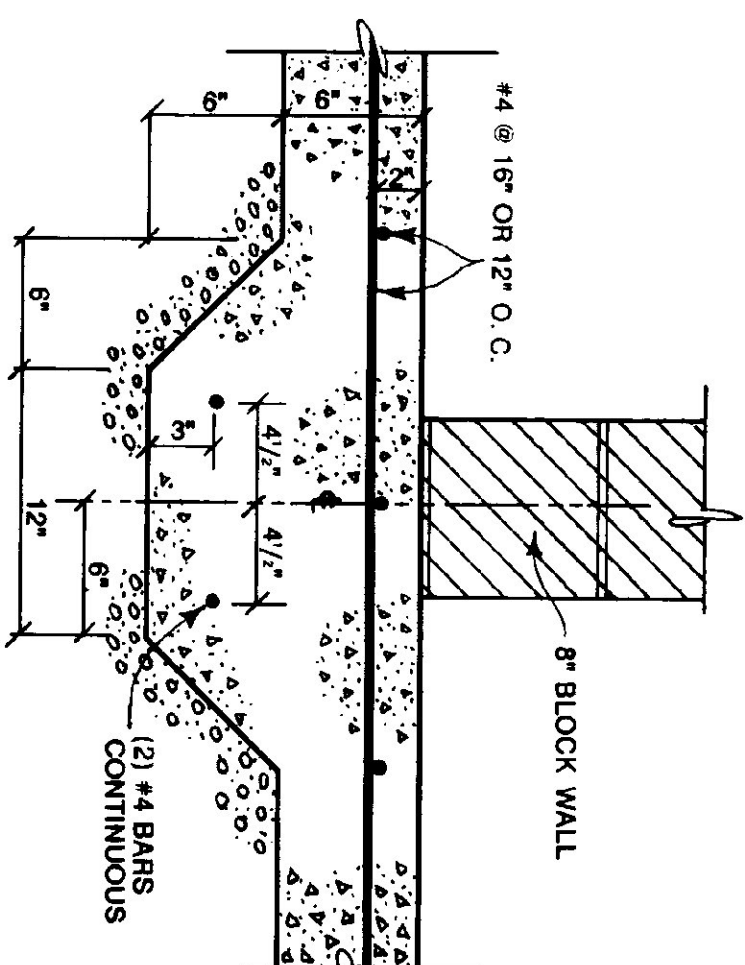




ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- (1) SLAB CONSTRUCTION JOINT/EXPANSION JOINT PATTERN REQUIRES AN ALTERNATING AREA (CHECKER BOARD) POURING SEQUENCE FOR GARAGE FLOOR.
 - (2) SLABS @ EXTERIOR PEOPLE & OVERHEAD DOORS EXTEND 2' BEYOND FACE OF FOUNDATION.

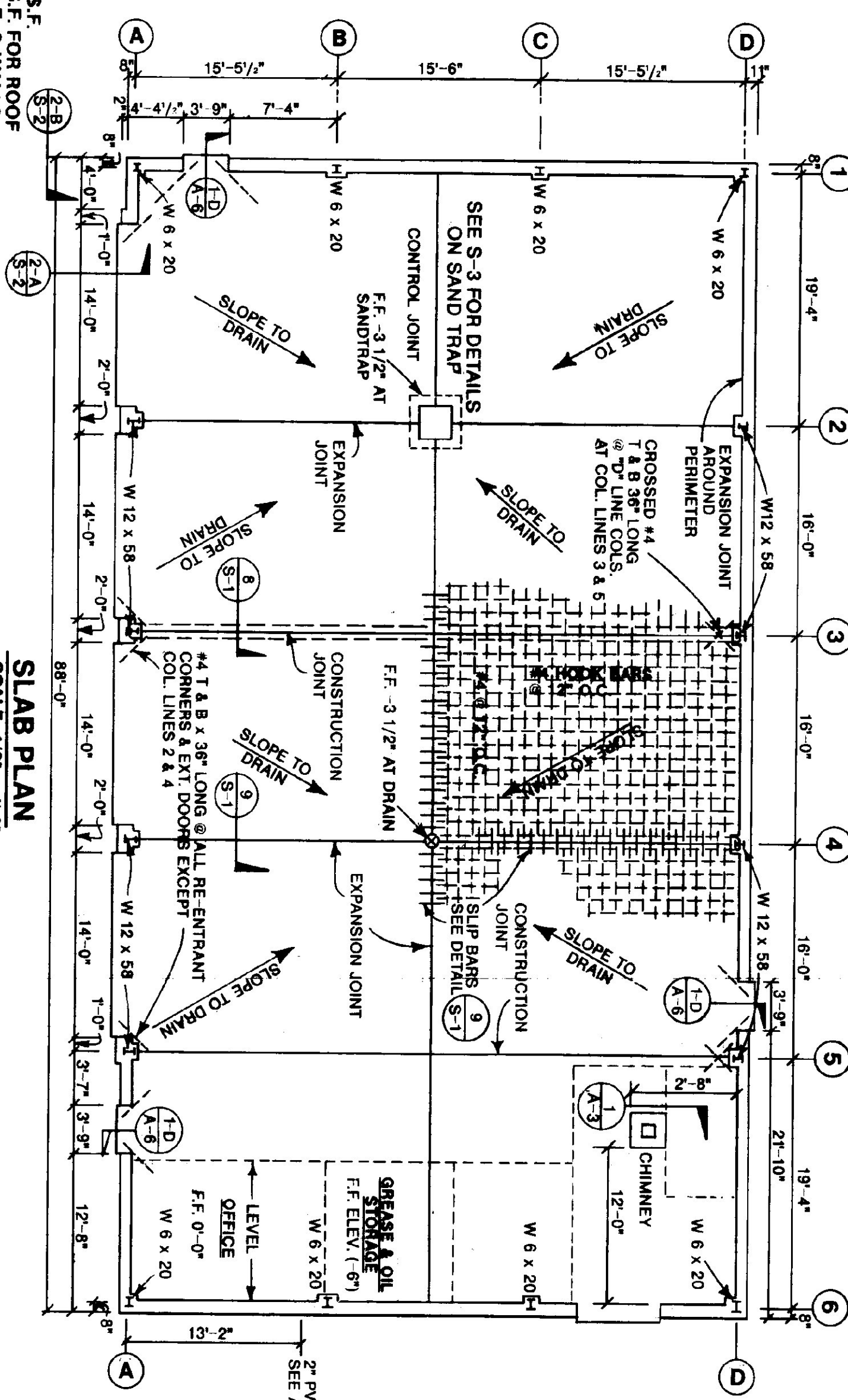
1 SLAB FOOTING AT BLOCK WALL DETAIL
SCALE: 1-1/2" = 1'-0"



- LOADING NOTES:**
- (1) SNOW LOAD = 50# S.F.
 - (2) DEAD LOAD = 20# S.F. FOR ROOF
 - (3) WIND LOAD = 20# S.F. @ WALLS
 - (4) MEZZANINE = 100# S.F. FLOOR

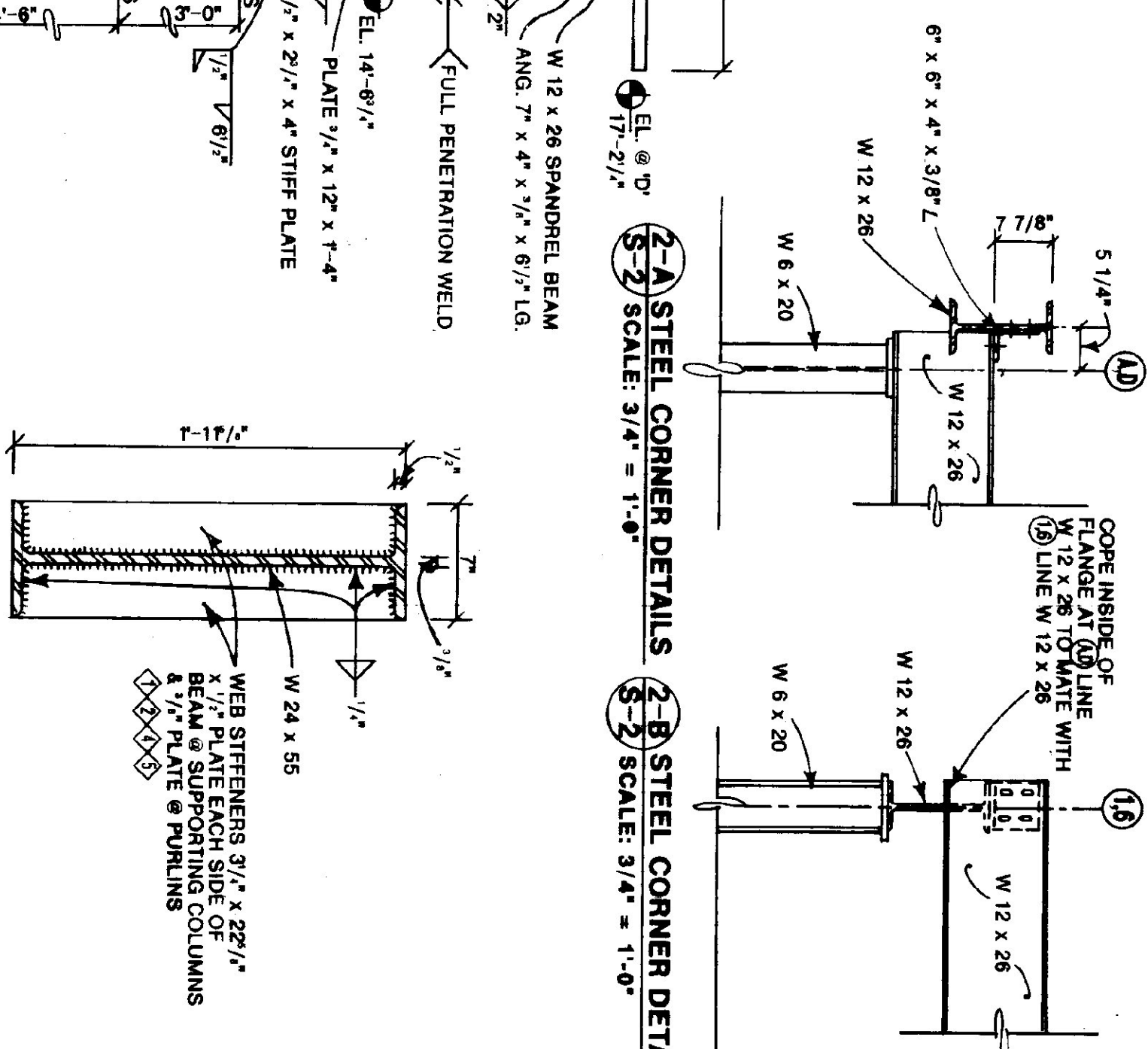
- BASE PLATE NOTES:**
- @ COL. LINES #1 & 6 BOT. OF BASE PLATES @ +4'-0 1/2"
 - @ COL. LINES #2, 3, 4, 5 BOT. OF BASE PLATES @ -8 1/2"
- MISC. NOTES:**
- CHANNELS FOR GARAGE DOORS (4 DOORS TOTAL) ARE NOT SHOWN ON FRAMING PLAN.

SLAB PLAN
SCALE: 1/8" = 1'-0"

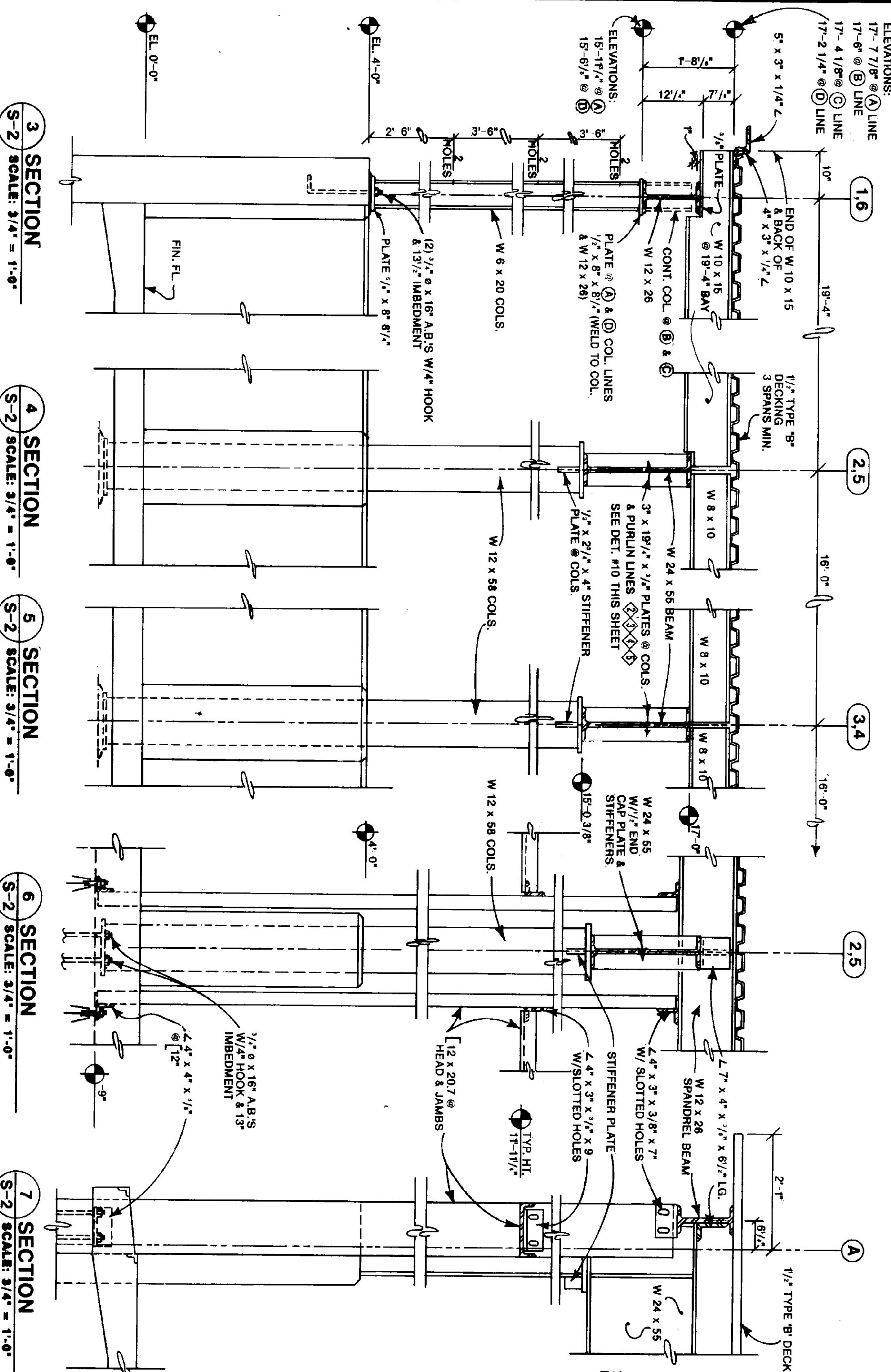
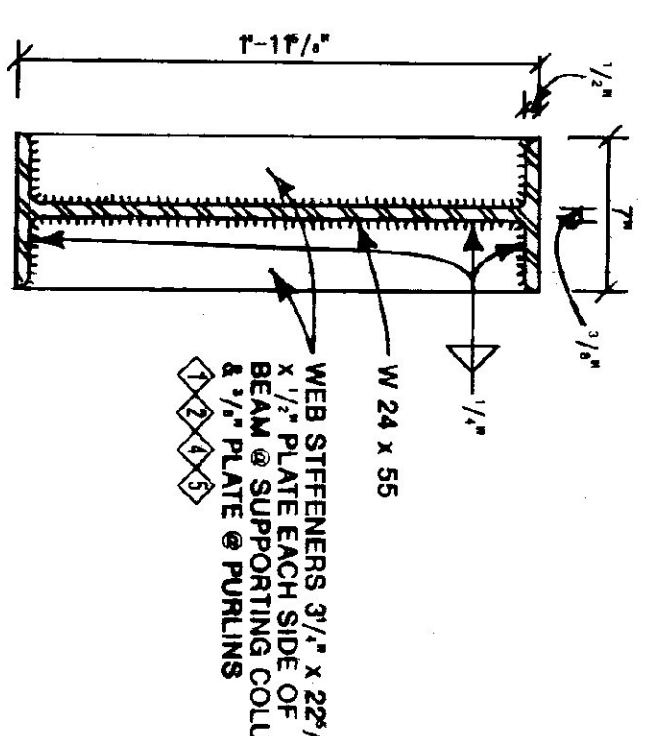


2-A STEEL CORNER DETAILS
SCALE: 3/4" = 1'-0"

2-B STEEL CORNER DETAILS
SCALE: 3/4" = 1'-0"



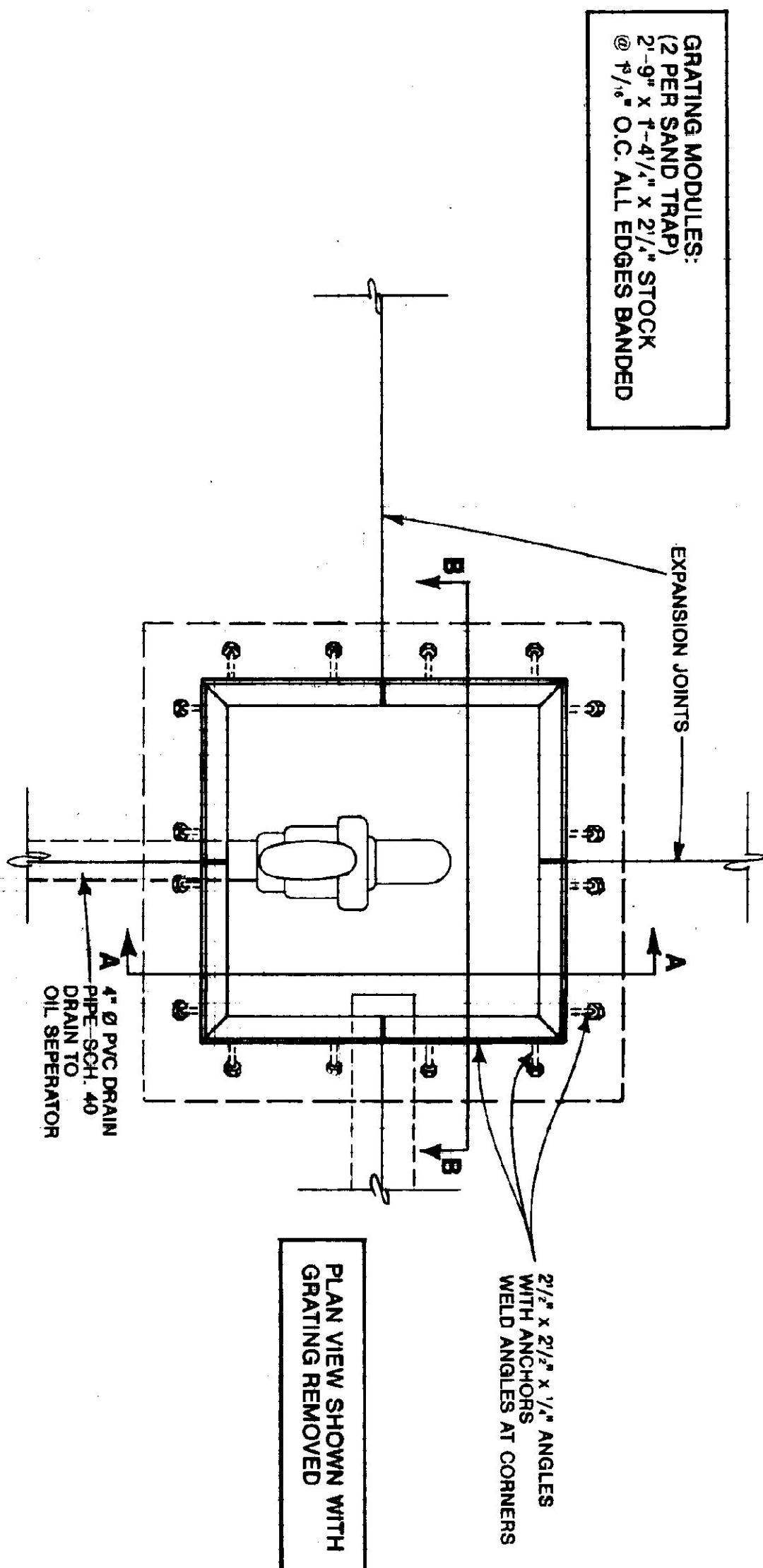
10 DETAIL - WEB STIFFENERS
SCALE: 1-1/2" = 1'-0"



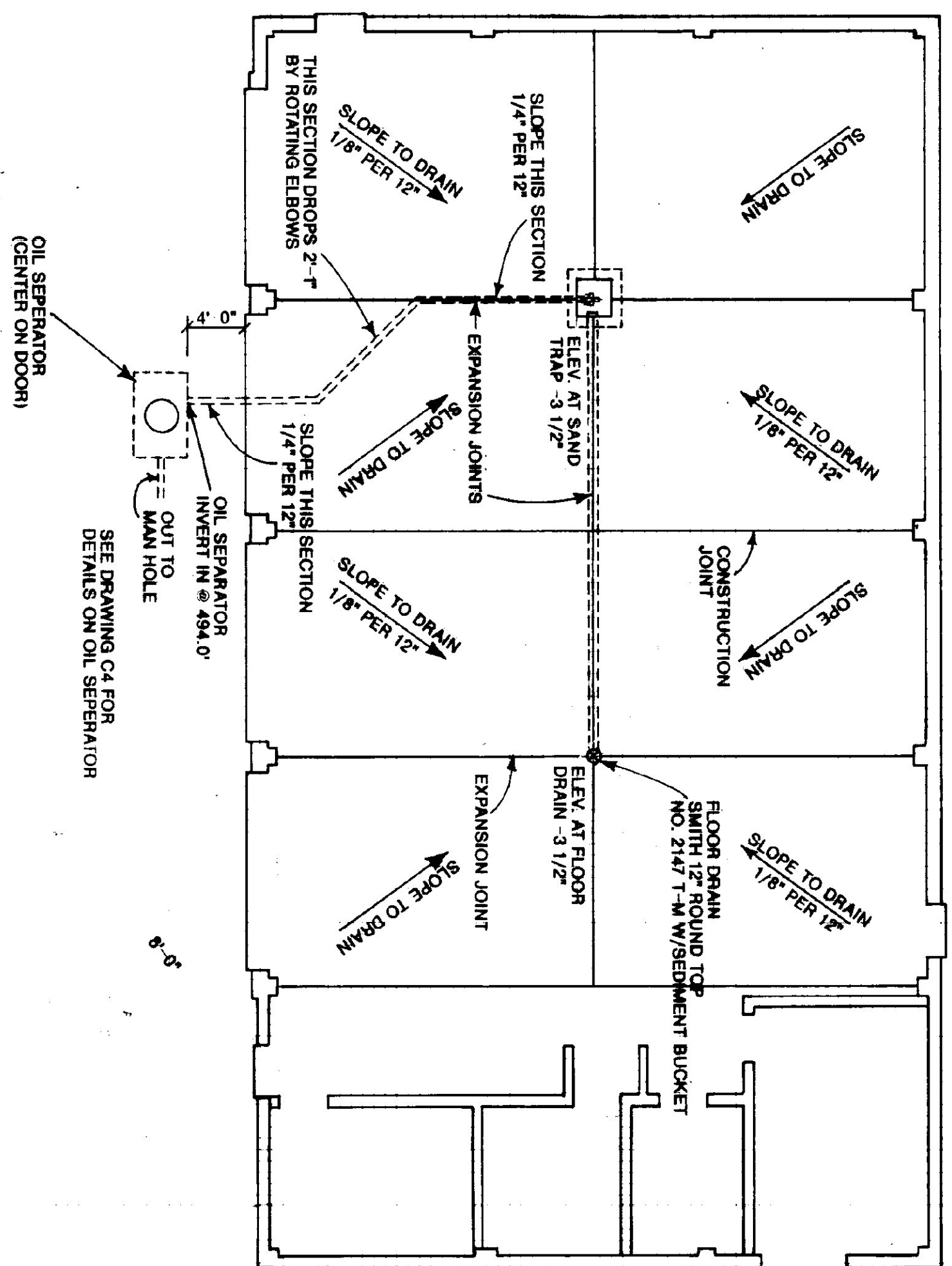
SECTION @ COL. LINE 'A' 2-5
SCALE: 3/4" = 1'-0"

SECTION @ COL. LINE 'D' 2-5
SCALE: 3/4" = 1'-0"

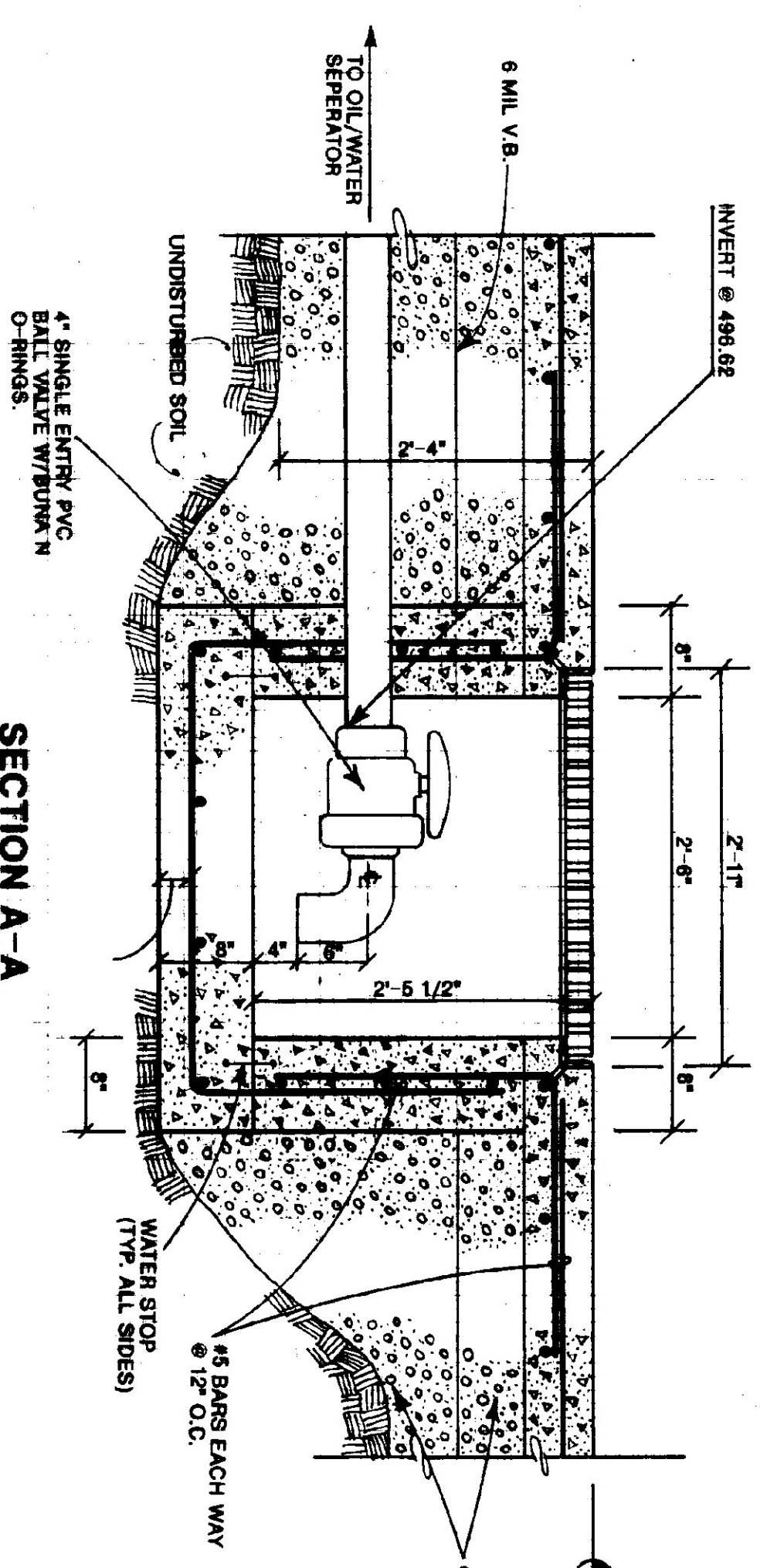
STATE OF VERMONT			
DEPARTMENT OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
VERMONT AGENCY OF TRANSPORTATION			
STRUCTURAL STEEL FRAMING @ ROOF & STEEL SECTIONS & CONCRETE DETAILS			
4 BAY MAINTENANCE GARAGE			
BRANDON, VERMONT			
DATE: JUNE 1997	SCALE: AS NOTED	REVISIONS:	DWG. NO. S-2
DRAWN BY: A. POULIN	APPROVED BY: [Signature]		
			18 OF 23



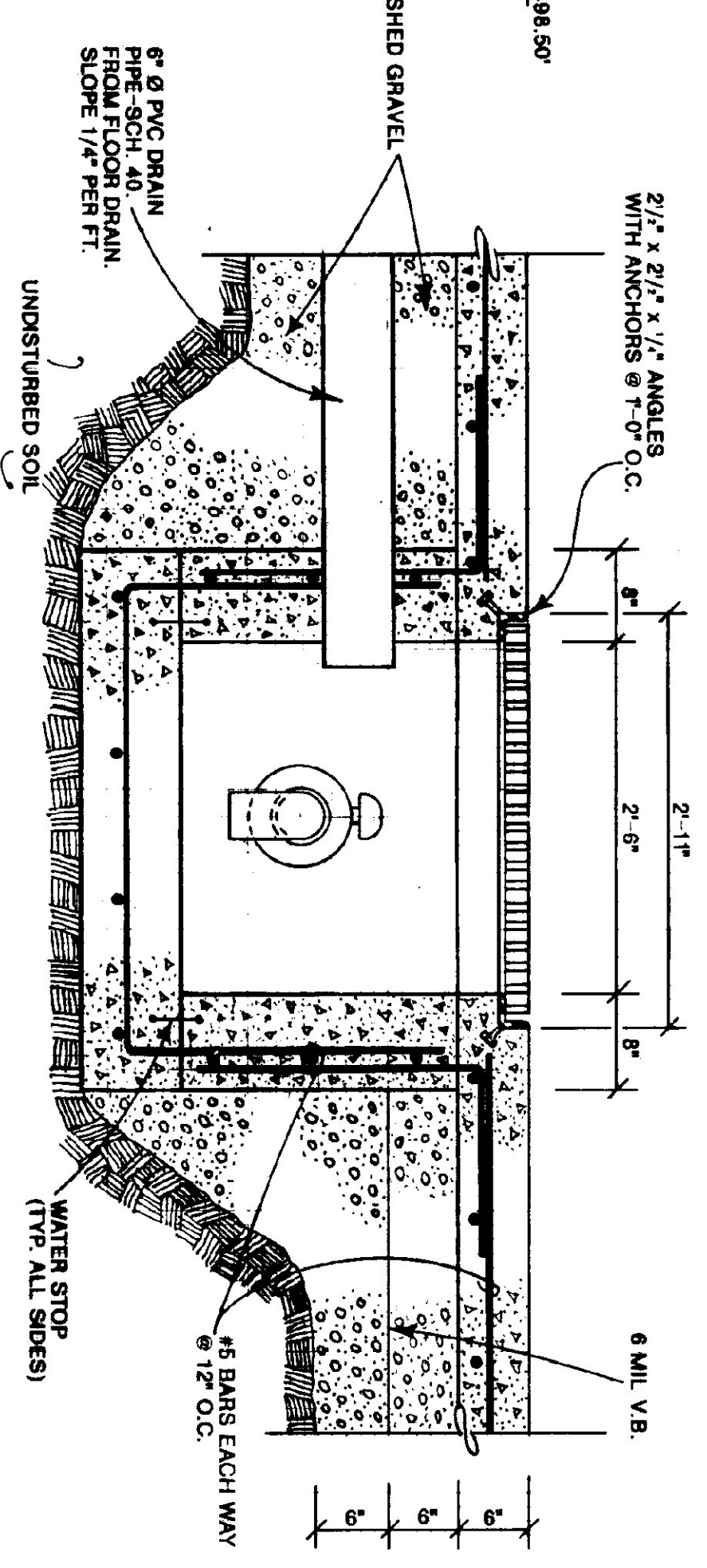
SAND TRAP PLAN VIEW
SCALE: 1" = 1'-0"



DRAINAGE PLAN VIEW
SCALE: 1/8" = 1'-0"



SECTION A-A
SCALE: 1" = 1'-0"



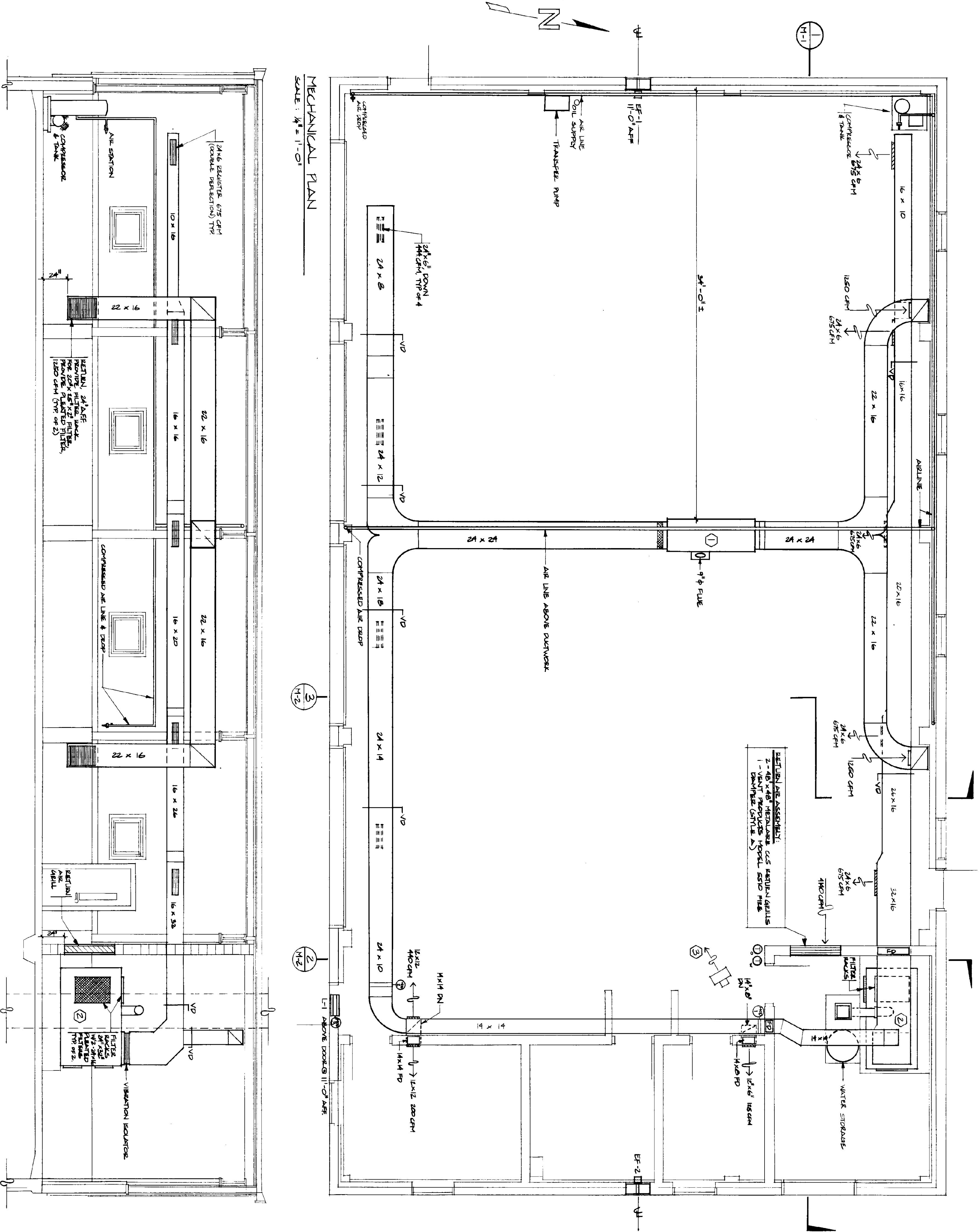
SECTION B-B
SCALE: 1" = 1'-0"

STATE OF VERMONT			
DEPARTMENT OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
VERMONT AGENCY OF TRANSPORTATION			
SAND TRAP PLAN & SECTIONS			
AND DRAINAGE PLAN			
4 BAY MAINTENANCE GARAGE			
BRANDON, VERMONT			
DATE:	SCALE:	REVISIONS:	DWG. NO.
JUNE 1997	AS NOTED		S-3
DRAWN BY:	APPROVED BY:		
A. POULIN	[Signature]		19 OF 23

NAME / MODEL	BTU OUTPUT	FUEL	CFM	BLOWER HP	VOLTAGE	FLUE
① JACKSON - CHURCH LBO-23	224,000	#2 OIL	2440	3/4	230	9" φ
② LINNABLE 95	250,000	CHUNK WOOD	2000	3/4	115	8" φ
③ VULCAN HV-100	78,000	HOT WATER	900	1/2	115	—

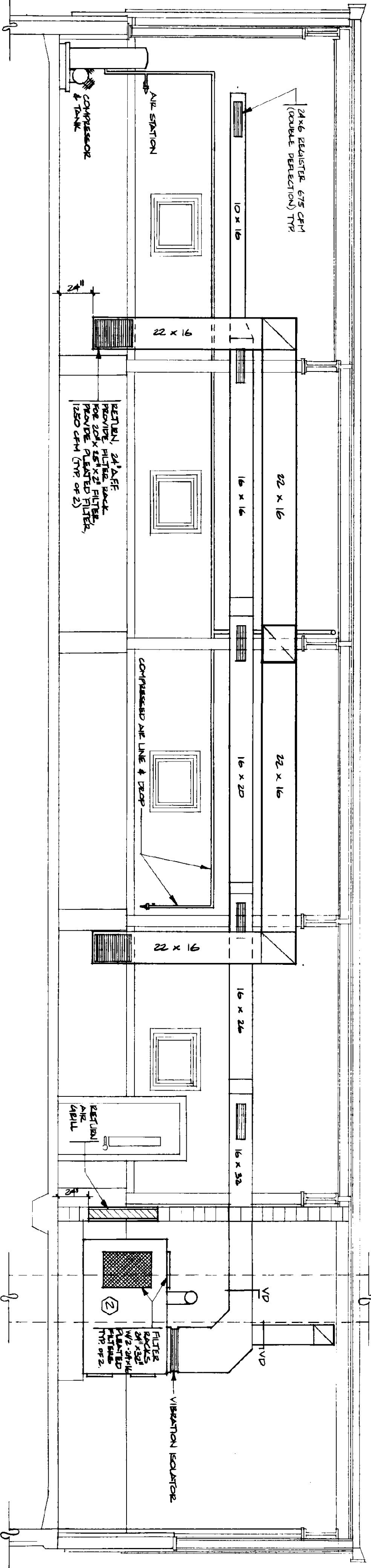
NAME	MODEL	SIZE	REMARKS
L-1	VENT PRODUCTS 2750	40x15	
MOD-1	VENT PRODUCTS 5013	14 x 14	"VALVED" STYLE OPERATOR, BLADES N.O. CREATOR TO CLOSE DAMPER WHEN OIL FURNACE BLOWER IS ON.
MOD-2	VENT PRODUCTS 5013	24 x 10	"VALVED" STYLE OPERATOR, BLADES N.O. CREATOR TO OPEN DAMPER WHEN OIL FURNACE BLOWER IS ON.
MOD-3	VENT PRODUCTS 5703	36x36	TO OPEN WHEN EF-1 IS OPERATIONAL.

NAME	MODEL	CFM	SP	VOLT	HP
EF-1	GREENHECK SFF-24	3855	.15	230	1/4
EF-2	GREENHECK SP-6	86	.125	115	40 WATT



MECHANICAL PLAN

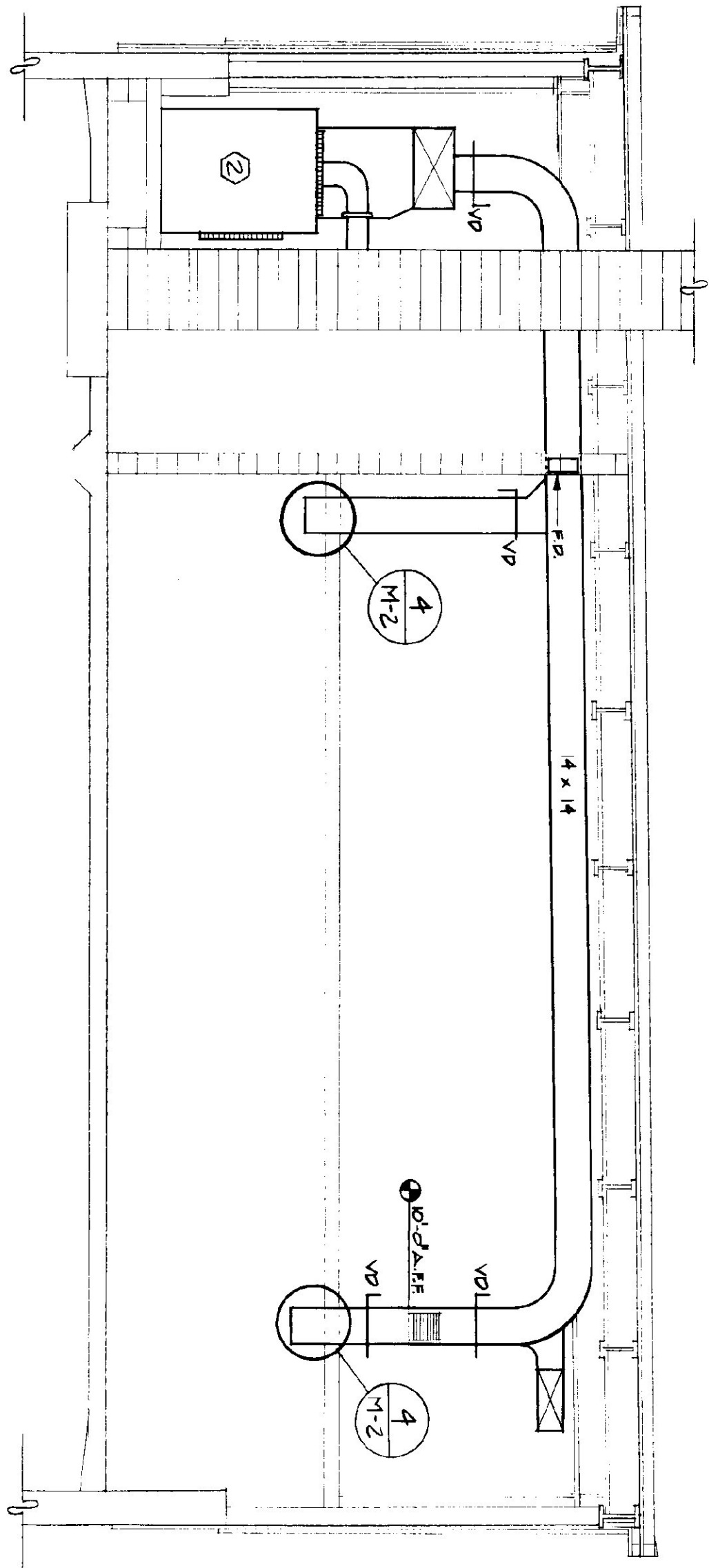
SCALE: 1/4" = 1'-0"



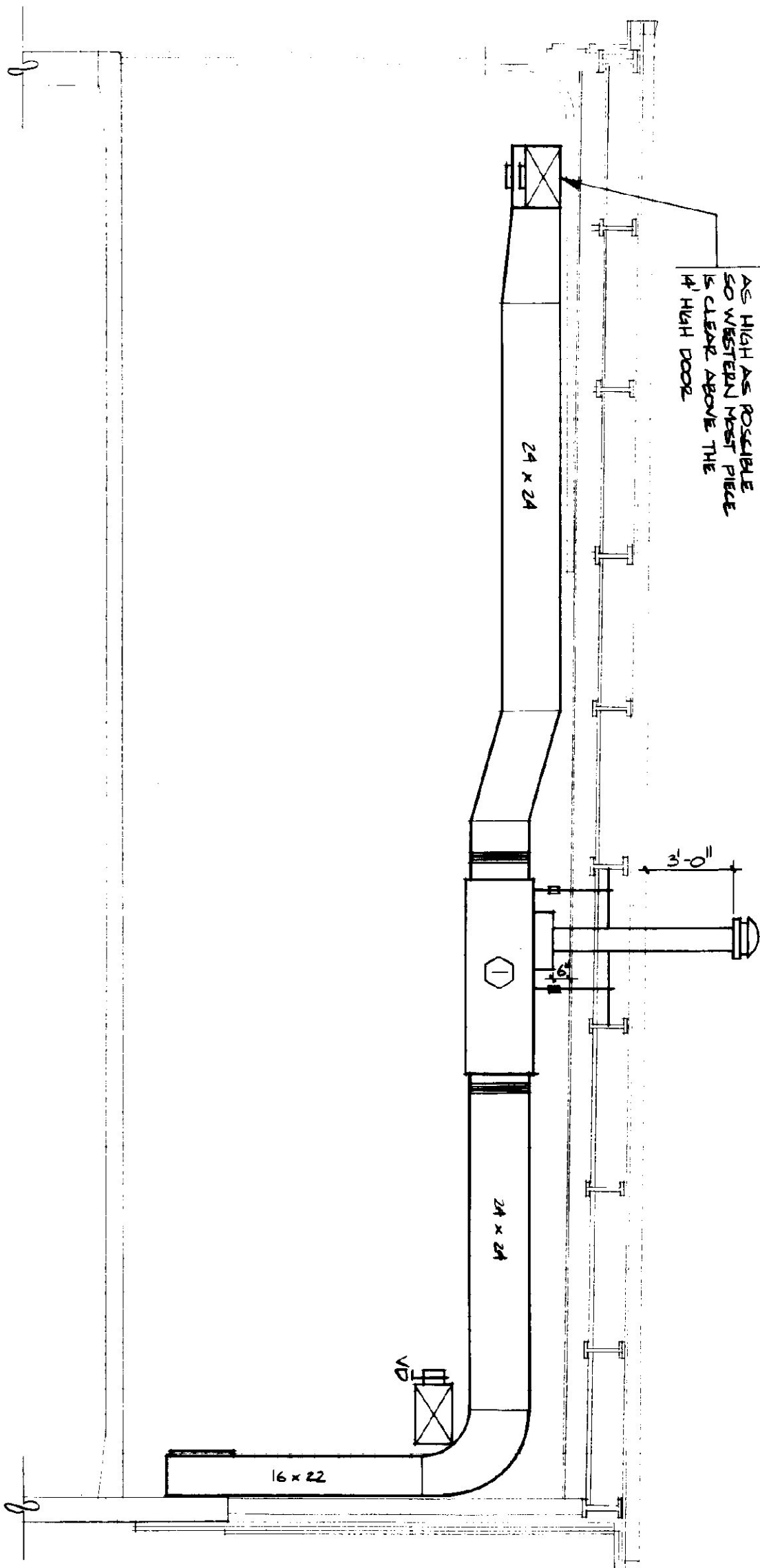
SECTION 1

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

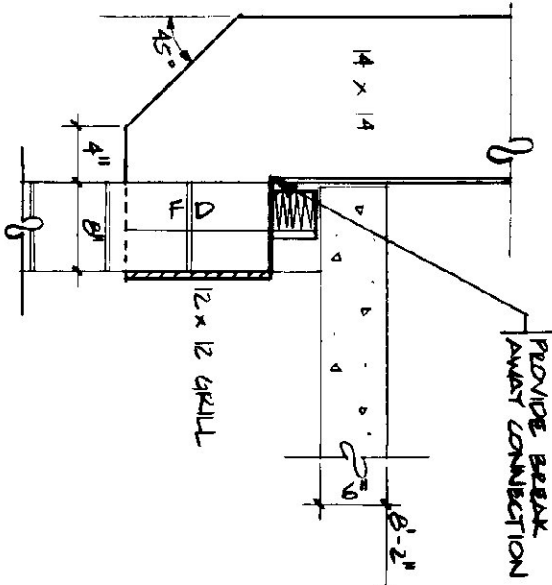
STATE OF VERMONT				VERMONT	
DEPARTMENT OF STATE BUILDINGS					
AGENCY OF ADMINISTRATION					
MONTPELIER, VERMONT					
BRANDON				MECHANICAL PLAN & SECTION	
DATE: JUNE 1997				SCALE: AS NOTED	
DRAWN BY: J. GILLES				APPROVED BY: [Signature]	
REVISIONS:				DWG. NO. M-1	
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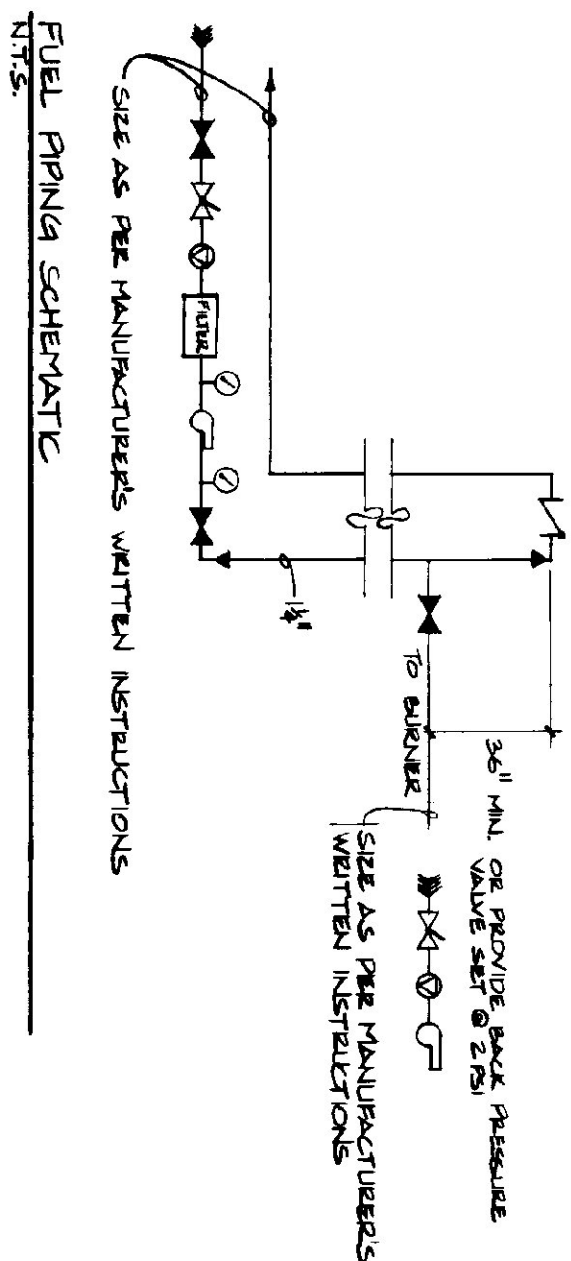
2 SECTION
SCALE: 1/4" = 1'-0"



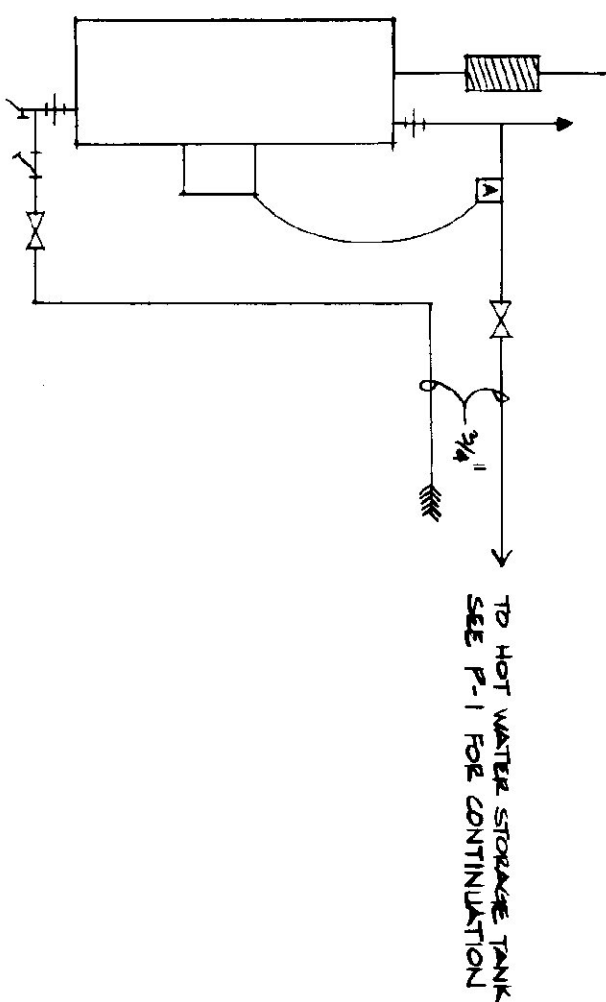
3 SECTION
SCALE: 1/4" = 1'-0"



4 DETAIL OF AIR DUCT @ OFFICE & BATHROOM
SCALE: 3/4" = 1'-0"



FUEL PIPING SCHEMATIC
NTS.



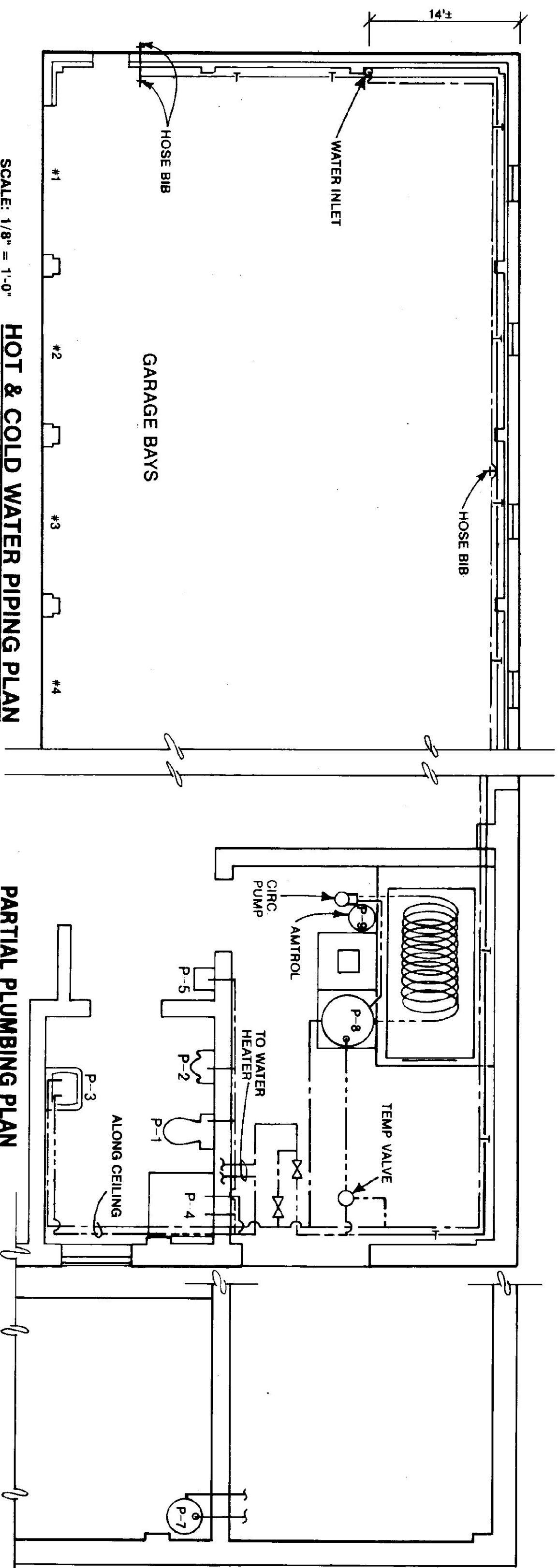
UNIT HEATER PIPING DETAIL
NTS.

- LEGEND**
- FD FIRE DAMPER
 - ⊙ THERMOSTAT X: 1/2" = 0.1500
 - ▶ FULL PORTED BALL VALVE
 - ⋈ FIRE/PAVATIC VALVE, SPRING LOADED W/ LEVER & WIRE TO FUSIBLE LINK @ BURNER WEBSTER COV
 - ⊙ PRESSURE/VACUUM GAUGE
 - ⊕ UNION
 - ↑ AUTOMATIC AIR VENT ON 1/2" AIR CHAMBER
 - ⌈ STRAP ON ADJUSTABLE SERT @ 120°F
 - ⌈ STRAINER
 - ⌈ DRAIN
 - ⌈ VIBRATION ISOLATOR

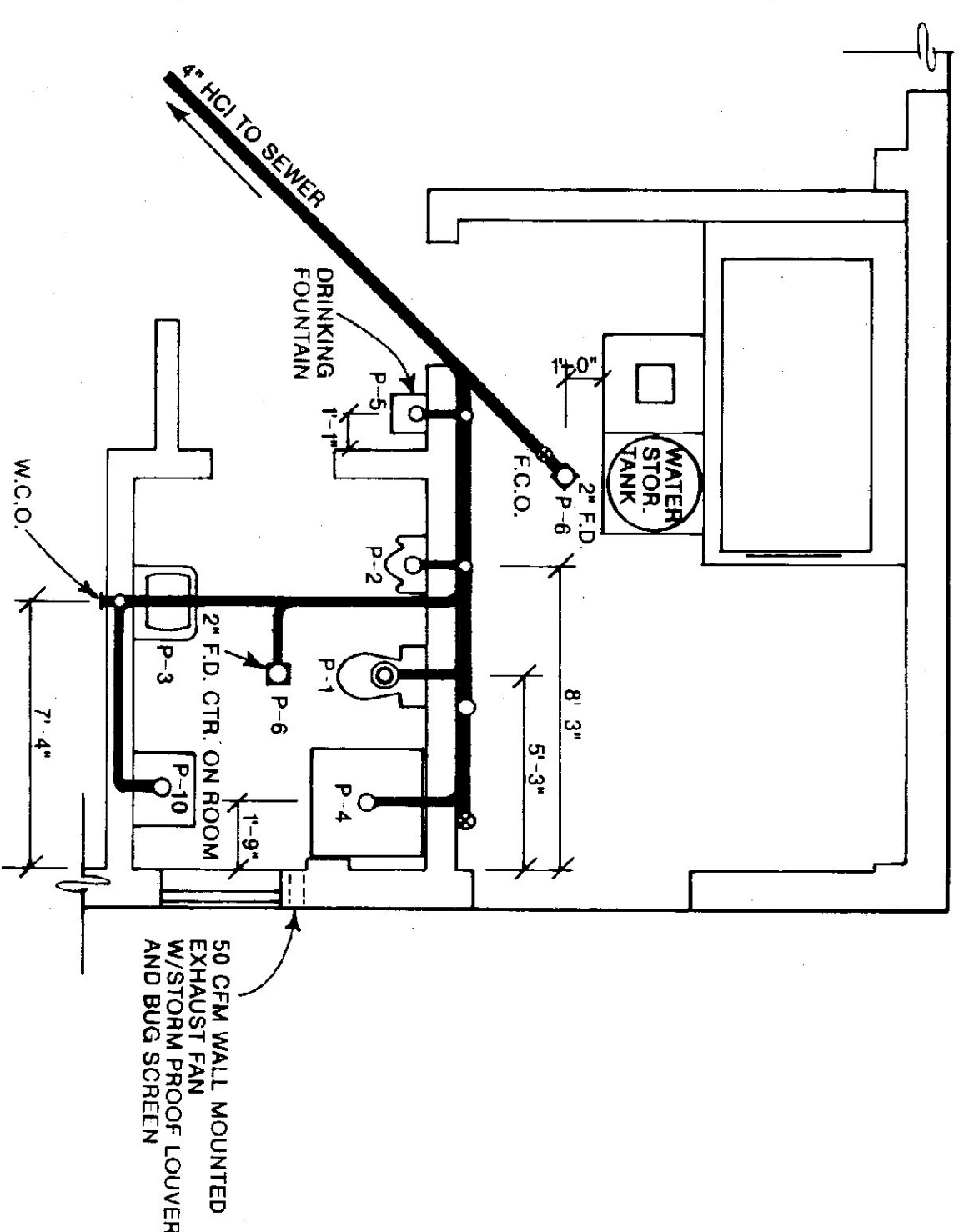
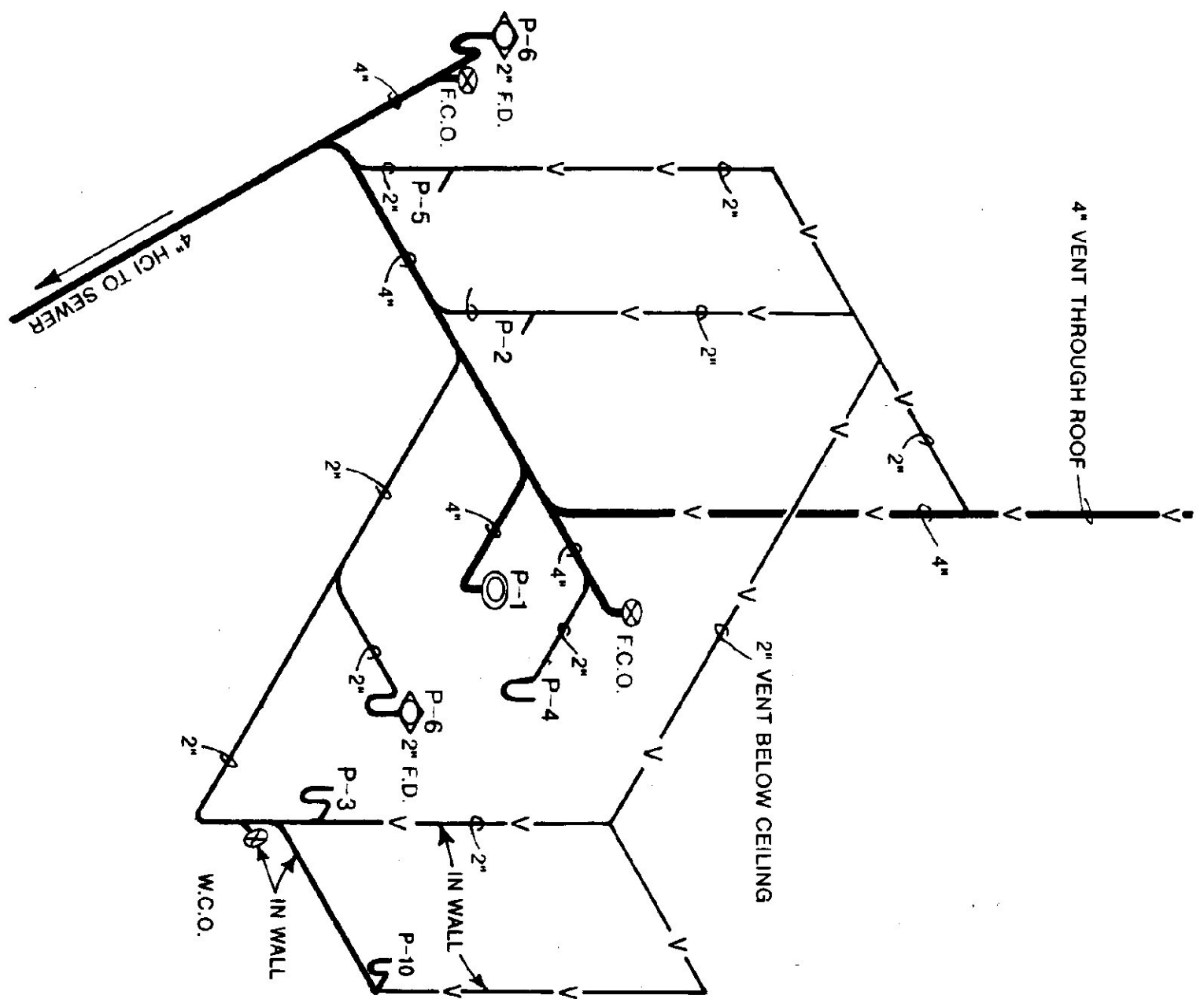
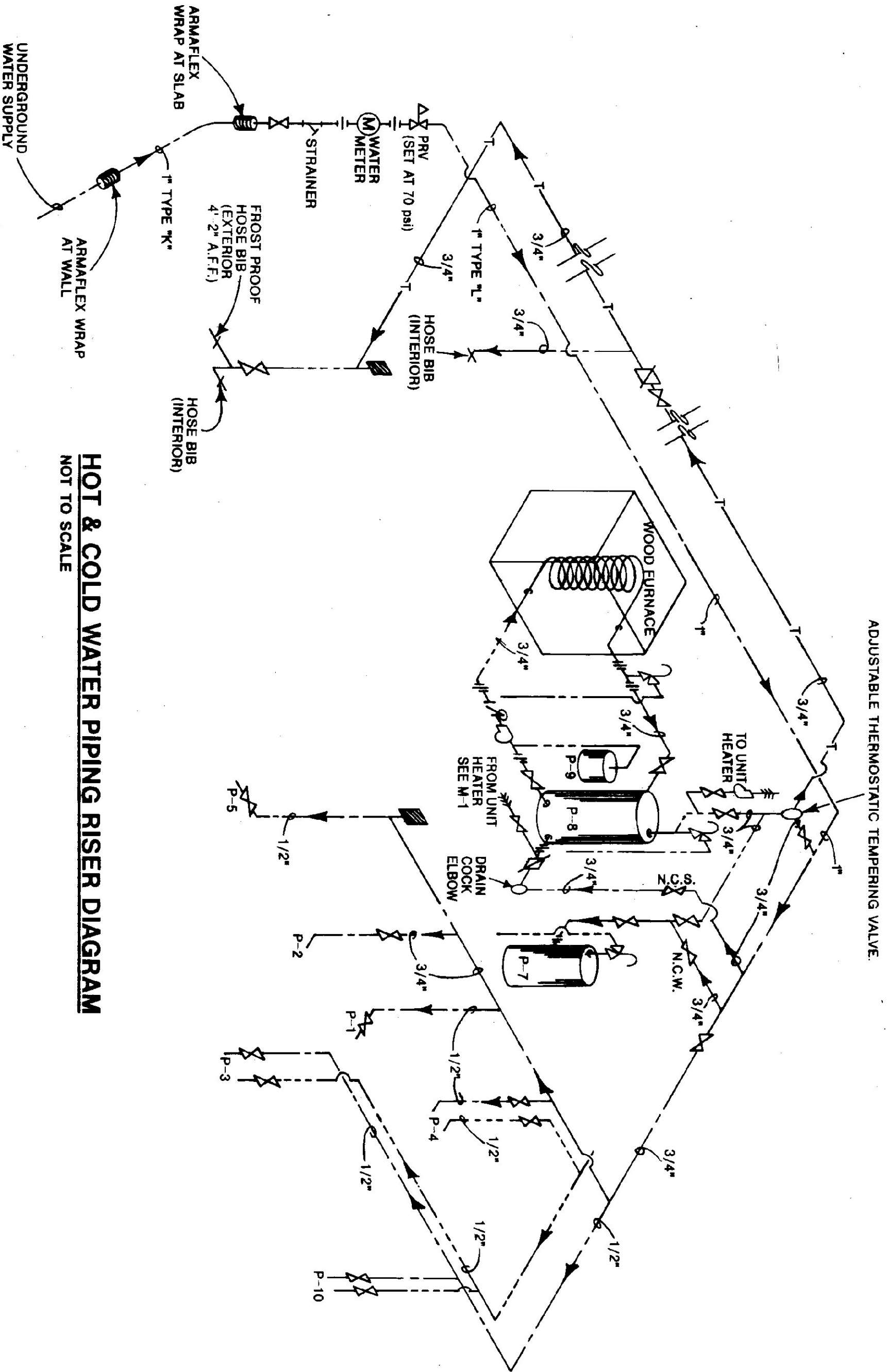
STATE OF VERMONT
DEPARTMENT OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

BRANDON
4-BAY MAINTENANCE GARAGE
MECHANICAL
ELEVATIONS & DETAILS

BRANDON, VERMONT		VERMONT	
DATE	SCALE	REVISIONS	DWG NO.
JUNE 1997	AS NOTED		M-2
DRAWN BY: J. GIBBS	7/2/94		21 OF 23



PLUMBING SYMBOLS FOR PIPING, VALVES & FITTINGS	
	COLD WATER
	HOT WATER
	PTR VALVE DRAIN
	WASTE PIPING
	VENT PIPING
	TEMPERED WATER
	FLOW DIRECTION
	CHECK VALVE
	BACKFLOW PREVENTER
	PRESS & TEMP RELIEF VALVE W/ DRAIN TO 6" A.F.F.-CUT END @ 45°
	WATER HAMMER ARRESTER
	UNION
	HOSE BIB
	P-TRAP
	FLOOR DRAIN W/ P-TRAP
	TOILET FLANGE
	FLOOR CLEANOUT
	NORMALLY CLOSED IN SUMMER
	NORMALLY CLOSED IN WINTER
	GATE OR BALL VALVE
	CIRCULATOR TACO 006, BRONZ.



FIXTURE SCHEDULE					
ABR.	FIXTURE	DESCRIPTION	NOTES	DRN.	VENT
P-1	TOILET	AMERICAN STANDARD "CADET" 2108.500 WHITE VITREOUS CHINA, HANDICAP, FLOOR MOUNTED, 16" HIGH SEAT TO BE ELONGATED, OPEN FRONT WITH BOLT CAPS. PROVIDE SUPPLY STOP.		4"	2"
P-2	URINAL	AMERICAN STANDARD "WASHBROOM" #650.010, 3/4" TOP SPUD, WHITE VITREOUS CHINA, WALL HUNG, WASH OUT URINAL, WITH SLOAN ROVAL 186 FLUSH VALVE & COMPATIBLE CARRIER.	MOUNT WITH RIM @ 17" A.F.F.	2"	2"
P-3	LAVATORY	AMERICAN STANDARD "DECLINE" #0321.012 WALL HUNG, WHITE VITREOUS CHINA, FRONT OVERFLOW, 4" CENTER FAUCET HOLES. FITTINGS SHALL BE CHROME SINGLE LEVER CONTROL. W/POP UP DRAIN & P-TRAP. AMERICAN STANDARD RELIENT # MODEL 2385.000.	MOUNT WITH RIM @ 34" A.F.F.	2"	2"
P-4	SHOWER	FIBERGLASS, 36" x 36", DURASTALL MODEL 144, WHITE, FITTINGS: CHROME, SINGLE LEVER CONTROL, PRESSURE BALANCED WITH SHREWDIVER STOP. AMERICAN STANDARD RELIENT # MODEL #1495.501. PROVIDE A CHROME STRAINER AND P-TRAP.		2"	2"
P-5	DRINKING FOUNTAIN	AMERICAN STANDARD #4310.112, WHITE VITREOUS CHINA, SELF CLOSING VALVE. PROVIDE P-TRAP.		4"	4"
P-6	FLOOR DRAIN	SLOTTED ROUND COVER. DRAIN SHALL DISCHARGE THROUGH A P-TRAP. OUTLET OF P-TRAP SHALL HAVE A TWO INCH DRAIN WITH INTEGRAL FLOOR CLEANOUT.	PROVIDE W/TRAP PRIMER FROM COLD WATER AT LAVATORY	2"	-
P-7	HOT WATER HEATER	30 GAL. ENERGY SAVING WITH 2" FOAM INSULATION, 20 GPH RECOVERY AT 90° TEMP. RISE. BRADFORD WHITE MODEL M-II-30R8 DS OR APPROVED EQUAL.	PROVIDE P & T RELIEF VALVE	-	1/2"
P-8	CLEANOUTS	AS INDICATED OR REQUIRED BY CODE. CLEANOUTS SAME SIZE AS PIPE. FLOOR CLEANOUTS TO BE SET FLUSH W/FLOOR. ZURN MODEL Z-1400-2 OR APPROVED EQUAL. WALL C.O.'S SHALL BE ZURN MODEL Z-1400-1 OR APPROVED EQUAL.		-	-
P-9	STORAGE TANK	STONE LINED 120 GAL. TANK.	PROVIDE P & T RELIEF VALVE & VACUUM BREAKER	-	3/4"
P-10	EXPANSION TANK	AMTROL THERM-X-TROL ST-25V		-	3/4"
P-10	LAUNDRY TUB	FIAT L-1, WALL HUNG, W/STRAINER & PLUG		1 1/2"	1 1/2"

SANITARY WASTE & VENT PIPE RISER DIAGRAM
NOT TO SCALE

SANITARY WASTE & VENT PLAN
SCALE: 1/4" = 1'-0"

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

VERMONT AGENCY OF TRANSPORTATION

PLUMBING PLAN

4 BAY MAINTENANCE GARAGE

BRANDON,

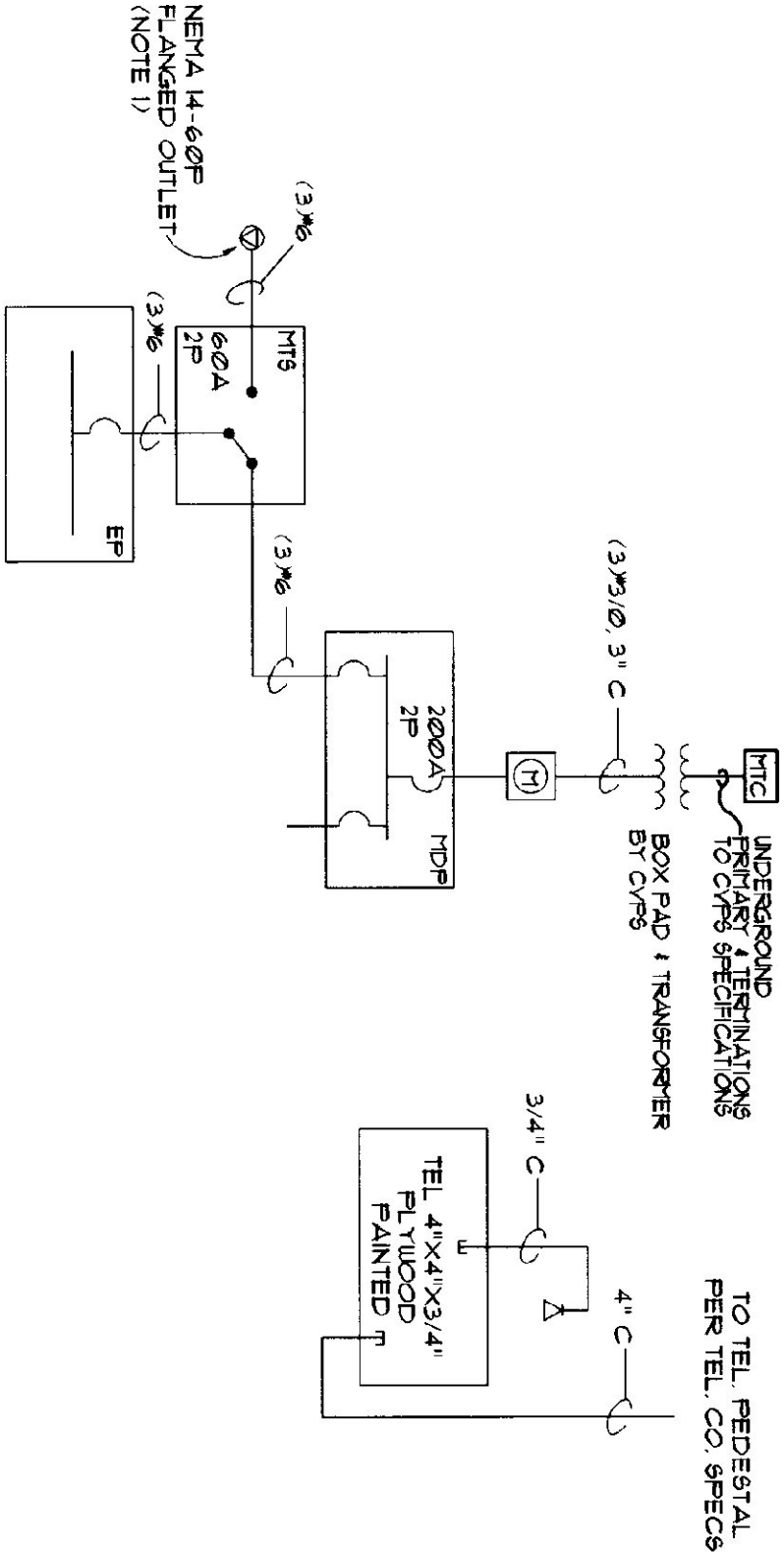
VERMONT

DATE:	SCALE:	REVISIONS:	DWG. NO.:
JUNE 1997	AS NOTED		P-1
DRAWN BY:	APPROVED BY:		
A. POULIN			

PANEL: 1P			LOCATION: WEST WALL - GARAGE BAY			FED FROM:		
AMP'S: 100/0			120/240 VOLTS			1 PHASE		
AMP'S FAULT CURRENT WITHSTAND: 10K						3 WIRE		
NOTES: SERVICE RATED G INDICATES GFCI BREAKER								
NO	AMP'S	WIRE	DESCRIPTION	NO	AMP'S	WIRE	DESCRIPTION	
1	20G	2 #2	RECEPTACLES GFI	2	60	3 #6	PANEL BP VIA TRANSFER SWITCH	
3	20G	2 #2	RECEPTACLES GFI	4		2 #6	EXHAUST FAN	
5	20G	2 #2	RECEPTACLES GFI	6	20	2 #2		
7	20G	2 #2	RECEPTACLES GFI	8		2 #6		
9	20G	2 #2	RECEPTACLES GFI	10	60	3 #6	CORNER BRACKET	
11	20	2 #2	RECEPTACLES	12		2 #6		
13	20	2 #2		14	30	2 #4	WELDER OUTLET	
15	20	2 #2		16		2 #6		
17	20	2 #2		18	20	2 #2	WOOD RAMPAGE	
19	20	2 #2		20	20	2 #2	HOT WATER PUMP	
21	20	2 #2		22	20	2 #2	FANS	
23	20	2 #2		24	20	2 #2	HV HEATERS	
25	20	2 #2		26		2 #6		
27	20	2 #2		28	20	2 #2		
29	20	2 #2		30	20	2 #2		

PANEL: EP			LOCATION: WEST WALL - GARAGE BAY/FED FROM 1P				
AMP'S: 60/2			120/240 VOLTS				
AMP'S FAULT CURRENT WITHSTAND: 10K			1 PHASE 3 WIRE				
NOTES:							
NO	AMP'S	WIRE	DESCRIPTION	NO	AMP'S	WIRE	DESCRIPTION
1	20G	2 #2	RECEPTACLES GFI	2	20	2 #2	FUEL PUMP
3	20	2 #2	RECEPTACLES - OFFICE	4			
5	20	2 #2	RECEPTACLES - STORAGE SHED	6	20	2 #2	OIL FURNACE
7	20	2 #2	LIGHTS GARAGE	8	20	2 #2	OIL PUMP
9	20	2 #2	LIGHTS GARAGE	10	20	2 #2	DOORS
11	20	2 #2	LIGHTS GARAGE	12	20	2 #2	DOORS
13	20	2 #2	LIGHTS GARAGE	14	20	2 #2	DOORS
15	20	2 #2	LIGHTS SMALL ROOM	16	20	2 #2	DOORS
17	20	2 #2	LIGHTS OUTSIDE	18	20	2 #2	DOORS
19	20	2 #2	LIGHTS OUTSIDE	20	20	2 #2	DOORS
21	20	2 #2	LIGHTS BAYLT	22	20	2 #2	DOORS
23	20	2 #2	LIGHTS STORAGE	24	20	2 #2	DOORS
25	20	2 #2		26	20	2 #2	DOORS
27	20	2 #2		28	20	2 #2	DOORS
29	20	2 #2		30	20	2 #2	DOORS

- NOTES:
1. PROVIDE RECEPTACLE COMPATIBLE WITH OWNER'S PLUG
 2. CONTROL WIRING PER MFR'S INSTRUCTIONS
 3. LOCATE ABOVE GRADE CONDUIT TO AVOID ACCIDENTAL DAMAGE
 4. COORDINATE WITH OWNER FOR BEST LOCATION.
 5. MOUNT DISCONNECT ON WALL, FEED FUEL PUMP WITH (2) #10, 1" RIGID STEEL CONDUIT UNDERGROUND, COORDINATE RISER TO PUMP WITH SLAB & PUMP CONTROLS. INCLUDE ALL CONNECTIONS AT PUMP FOR COMPLETE ELECTRICAL.

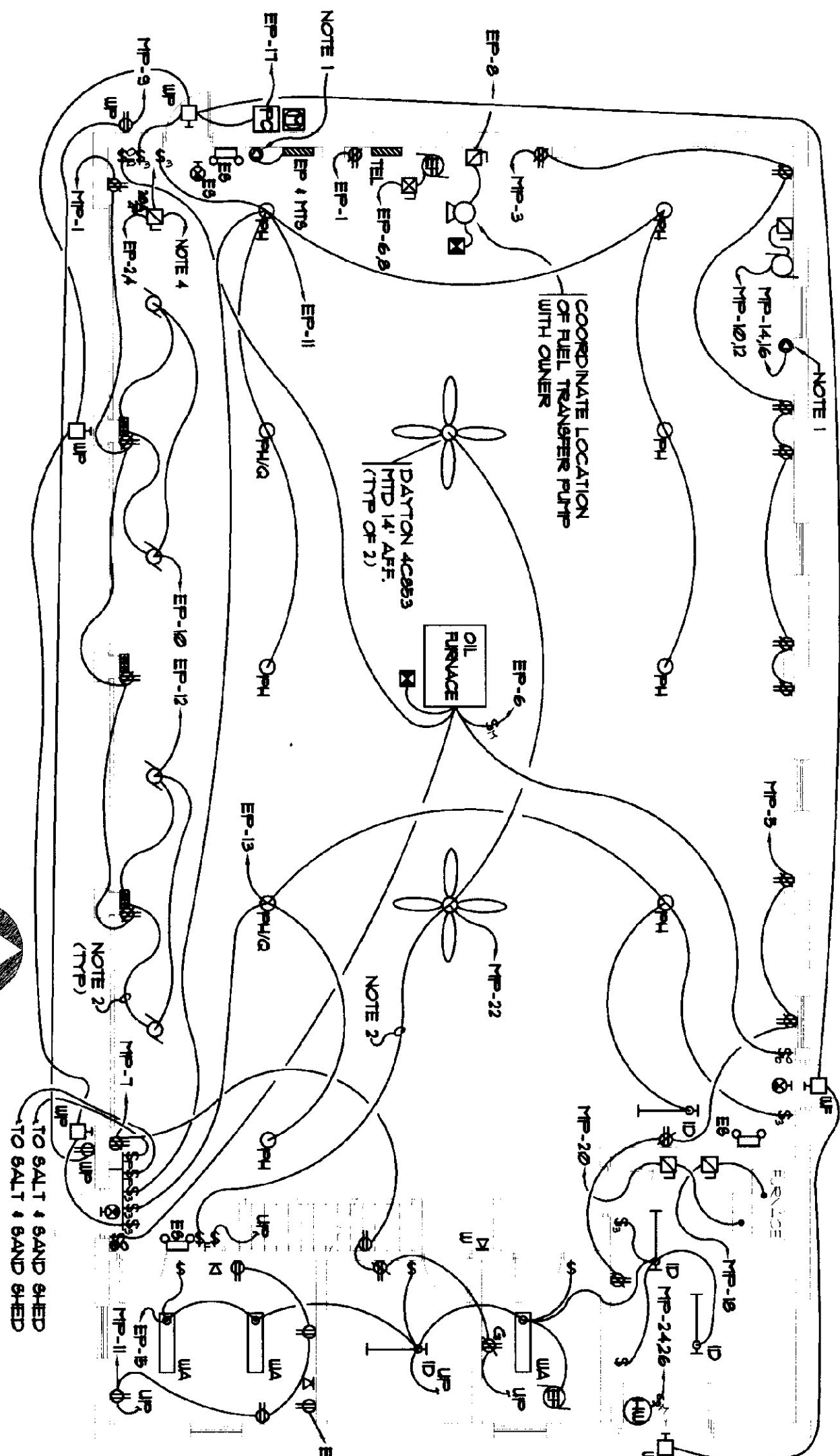


ELECTRICAL ONE-LINE DIAGRAM

SCALE: 1\"/>

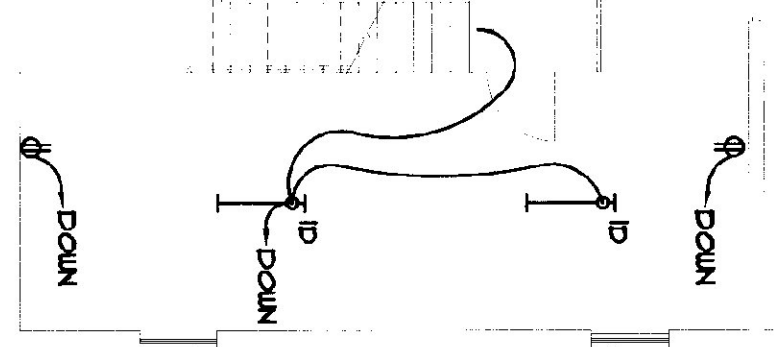
FIRST FLOOR PLAN

SCALE: 1\"/>



GARAGE STORAGE MEZZANINE

SCALE: 1\"/>



LEGEND:

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT)

POWER:

(ALL RECEPTACLES TO BE SPECIFICATION GRADE 20 AMP RATED)

⊕ DIRECT RECEPTACLE (MOUNT AT 2'-0\"/>

⊕ DIRECT RECEPTACLE (MOUNT ABOVE COUNTER)

⊕ DIRECT RECEPTACLE (MOUNT ABOVE COUNTER)

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STATE OF VERMONT			
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VERMONT AGENCY OF TRANSPORTATION			
FIRST FLOOR / MEZZANINE			
POWER AND LIGHTING			
4 BAY MAINTENANCE GARAGE			
BRANDON			
VERMONT			
DATE: JUNE 1, 1991	SCALE: AS NOTED	REVISIONS:	DWG. NO.: E1
DRAWN BY: KAS	APPROVED BY:		23 OF 23