

**BASES OF DESIGN:**  
 12 EMPLOYEES @ 15 gal/EMPLOYEE = 180 gal  
 WATER SAVING ALLOWANCE = 9 X 180 = 162 gal  
 REQUIRED DISPOSAL AREA = 162 gal / 1.5 gal per sq ft = 108 sq ft  
 USE 1 - 27' X 4' TRENCH = 108 sq ft OF DISPOSAL AREA FOR  
 PRIMARY AND REPLACEMENT DISPOSAL FIELDS  
 INSTALL A NEW 1000 GALLON PRECAST CONCRETE SEPTIC TANK

**PERIODIC MAINTENANCE NOTES:**

- SEPTIC TANK:**  
 (1) The depth of sludge and scum in the septic tank shall be measured annually by the Owner. The septic tank shall be pumped if the sludge is over 3" to the septic tank outlet solids.  
 (2) All septic tank components shall be inspected for cracking after the septic tank has been pumped.  
 (3) The effluent filter should be rinsed clean regularly.

**WASTEWATER DISPOSAL AREA:**

- (1) Monitor turf conditions throughout the summer months by mowing the grass to 2 1/2" - 3" in length; reseed all bare spots.  
 (2) At least once per year, open the distribution box and remove all settled solids as necessary.

**TEST PIT SUMMARY:**

TP #1	0-6"	TOPSOIL & DUFF
TP #1	6-84"	MEDIUM TEXTURED SAND NO MOTTLING TO DEPTH
TP #2	0-6"	TOPSOIL & DUFF
TP #2	6-108"	MEDIUM TEXTURED SAND NO MOTTLING TO DEPTH

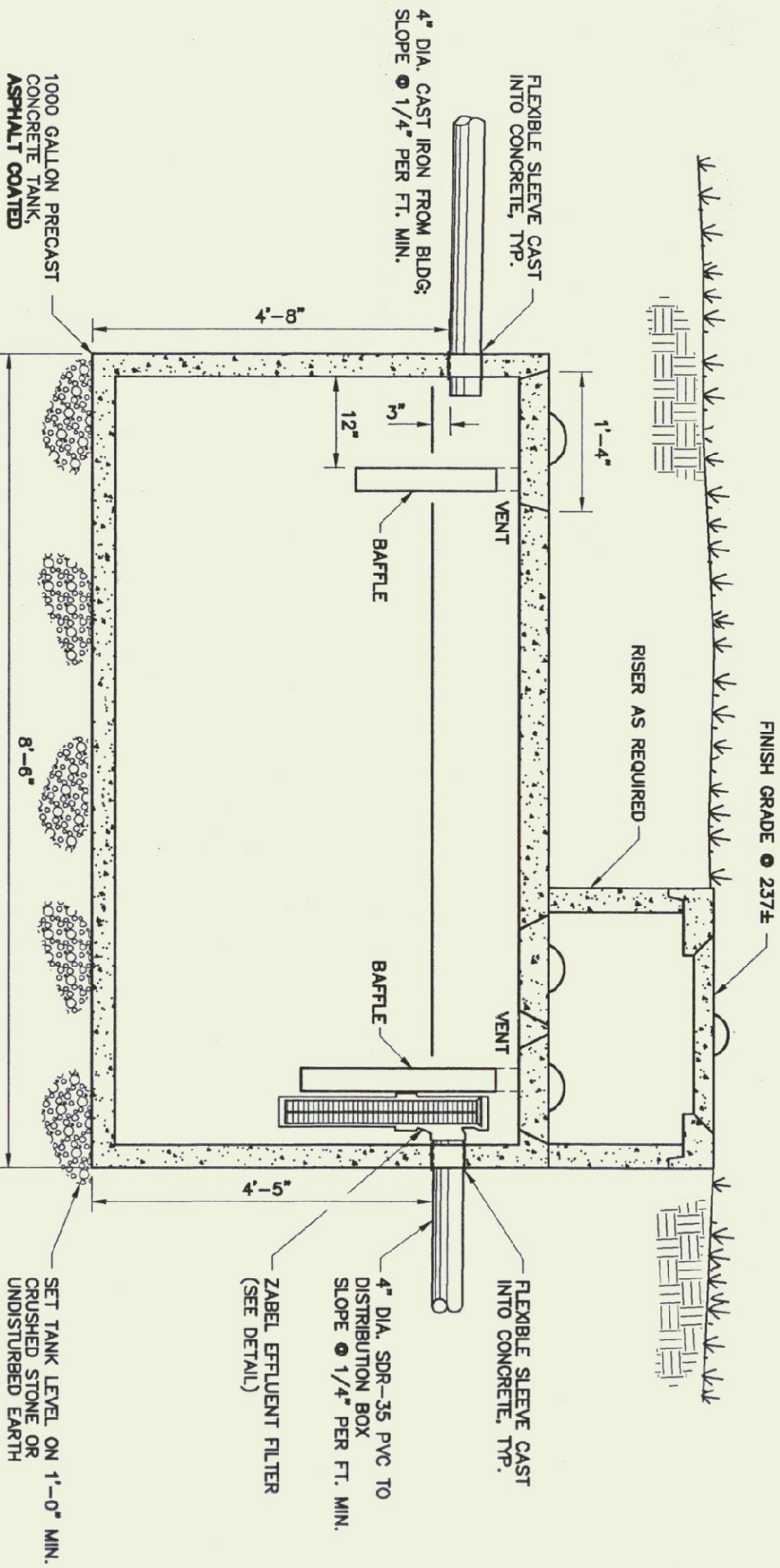
**PERCOLATION TEST SUMMARY:**

PT #1	1 MIN./INCH
PT #2	1 MIN./INCH

DEPTH OF PERC. TESTS: 30"  
 SOILS INVESTIGATION COMPLETED BY CHAMPLAIN CONSULTING  
 ENGINEERS ON 05/29/01.

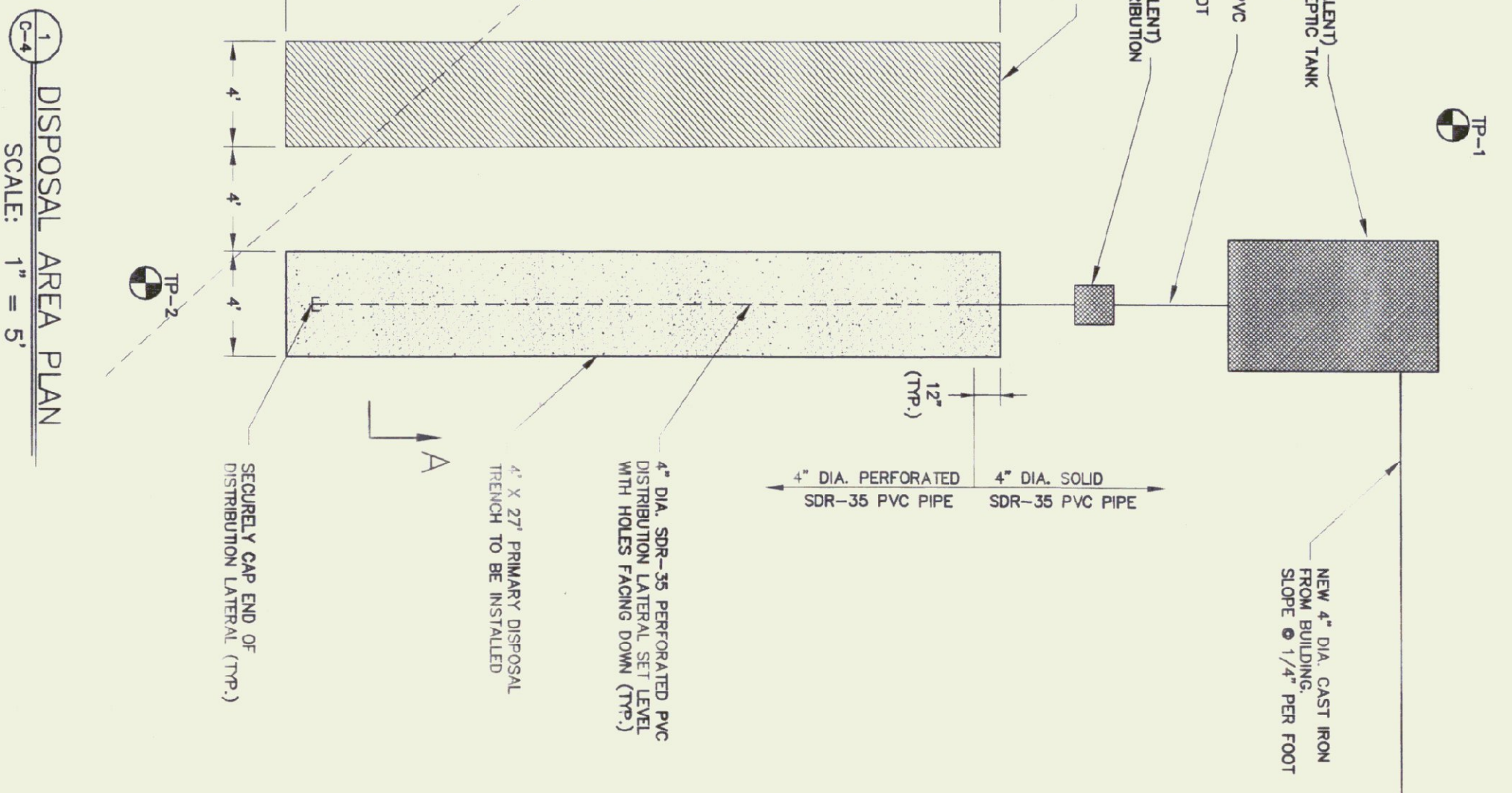
**CONSTRUCTION NOTES:**

- (1) The wastewater disposal system design shall be reviewed with the General Contractor prior to commencement of construction, and reviewed during the critical phases of construction by a registered professional engineer. The General Contractor shall be responsible for establishing the construction schedule. Forty-eight (48) hours advance notice is required for all construction reviews.  
 (2) The sides and bottom of the disposal trenches shall be rocked to securely dry, smooth soil surfaces after excavation is completed. All loose material shall be removed from the disposal trenches.  
 (3) The distribution lines shall be placed on the crushed stone bedding with no slope, and covered with crushed stone as per the disposal trench detail.  
 (4) The area around the wastewater disposal system shall be disposed of to provide diversion of surface runoff water from the disposal area.

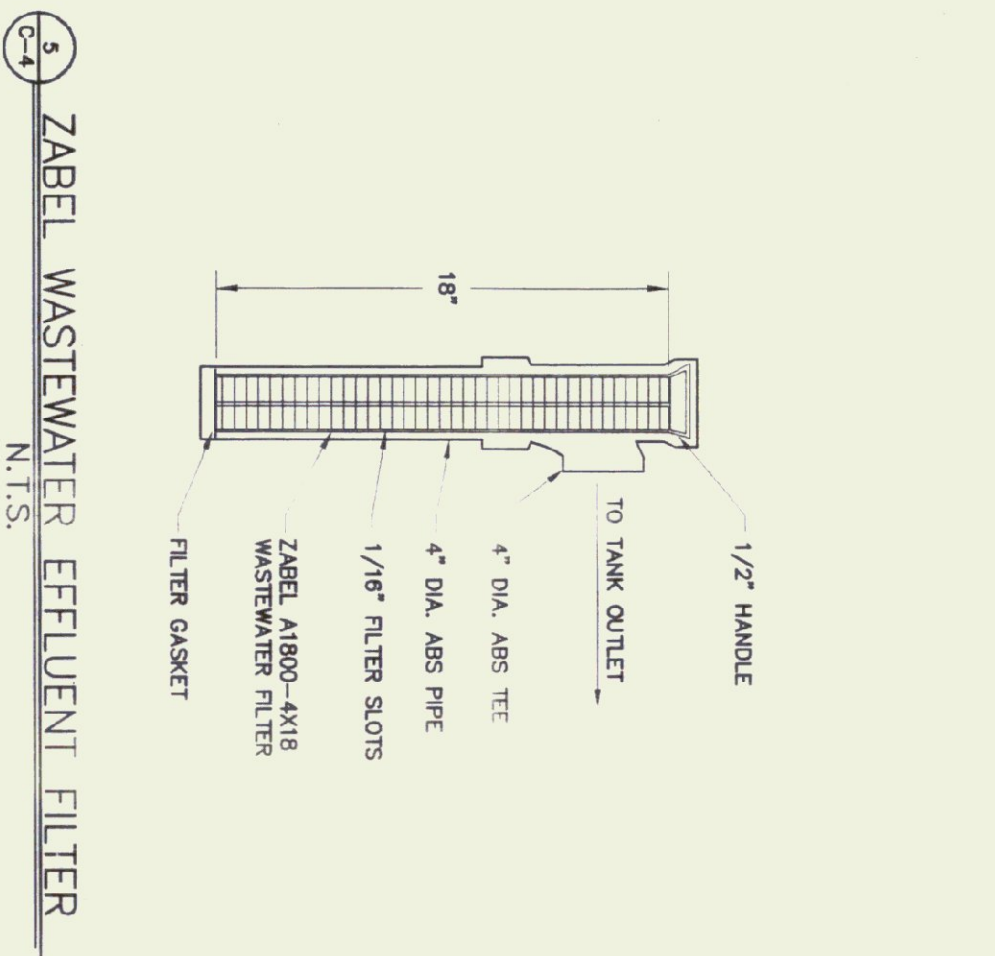


3 TYPICAL SEPTIC TANK WITH OUTLET FILTER  
 N.T.S.

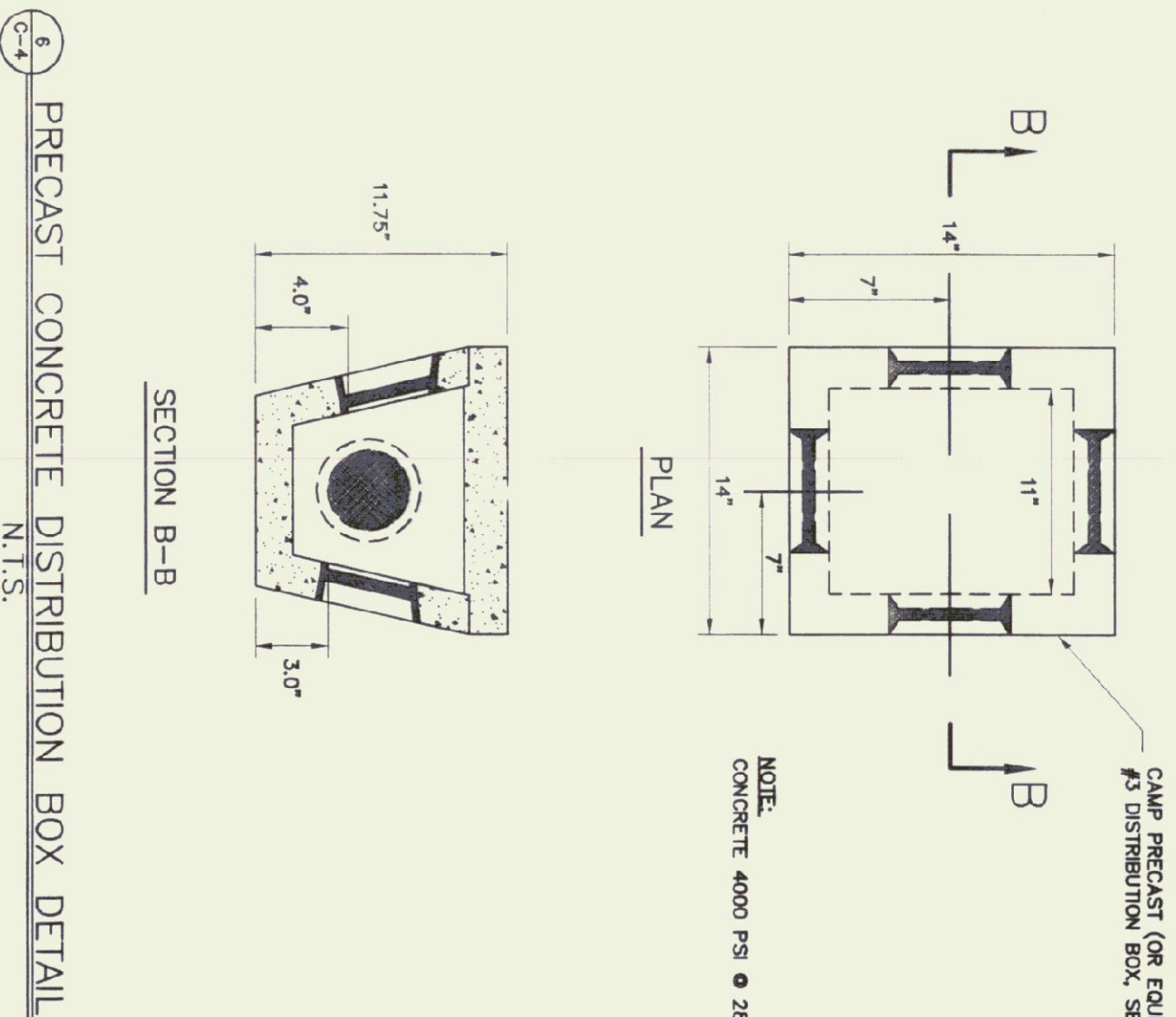
1 DISPOSAL AREA PLAN  
 SCALE: 1" = 5'



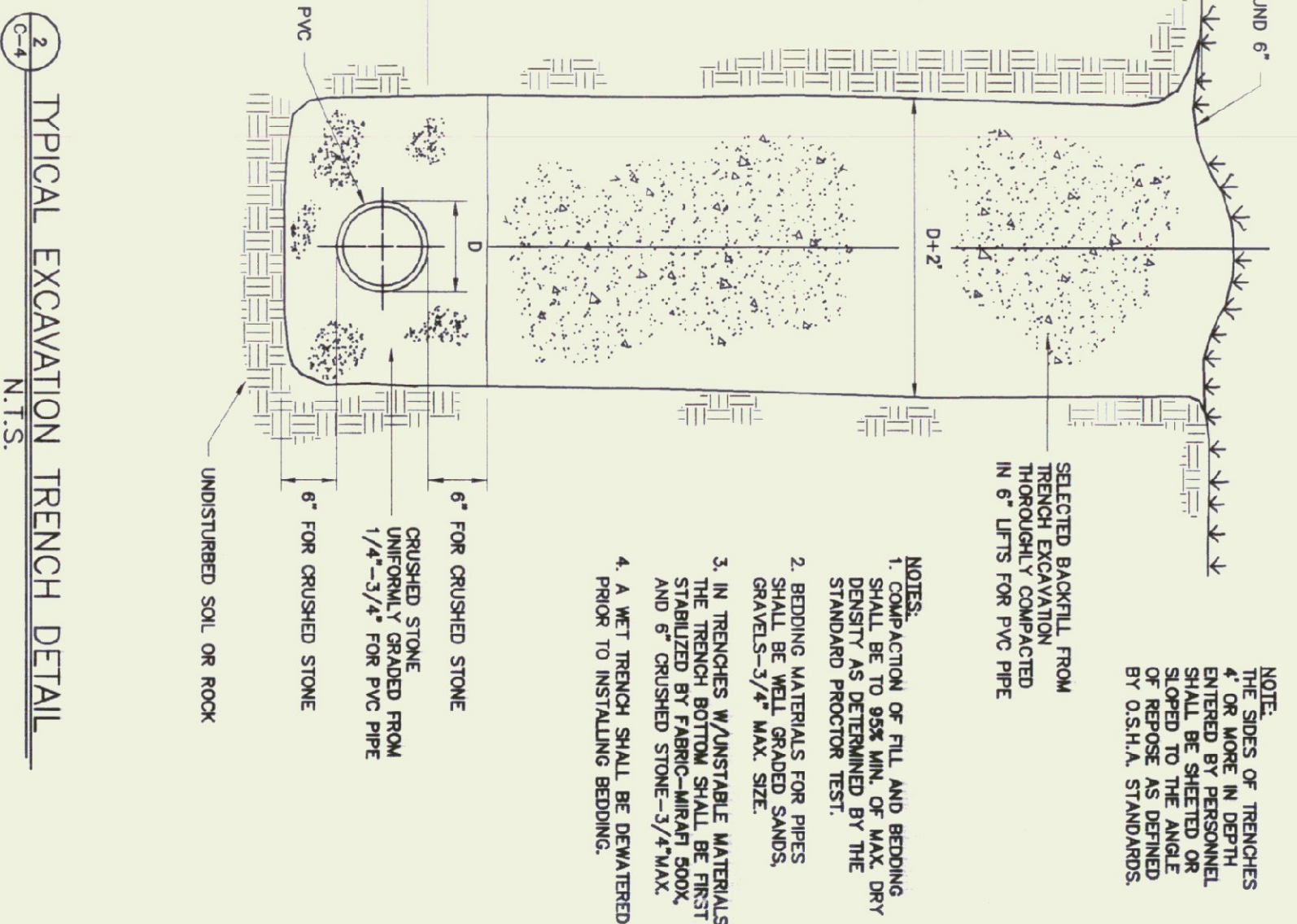
2 ZABEL WASTEWATER EFFLUENT FILTER  
 N.T.S.



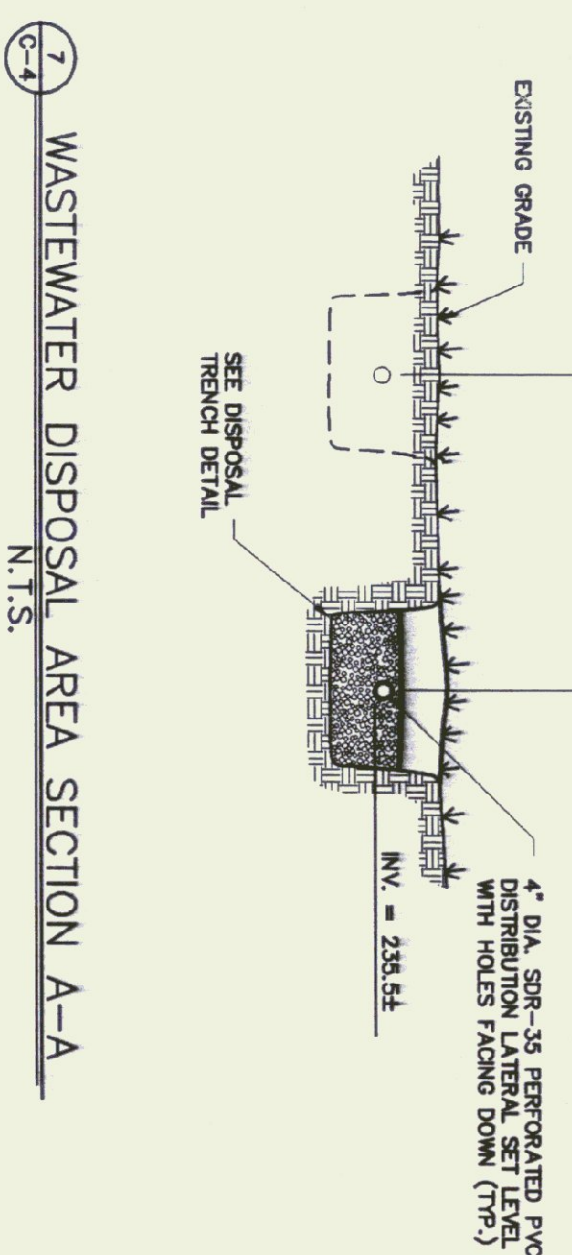
3 PRECAST CONCRETE DISTRIBUTION BOX DETAIL  
 N.T.S.



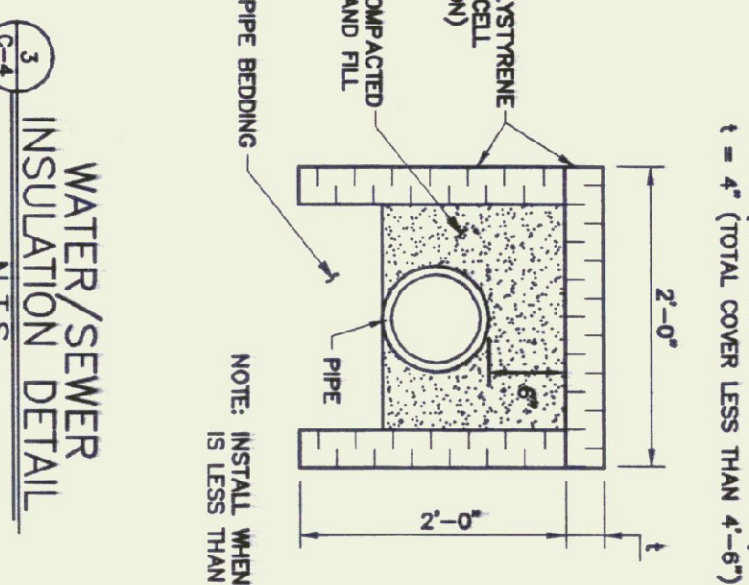
2 TYPICAL EXCAVATION TRENCH DETAIL  
 N.T.S.



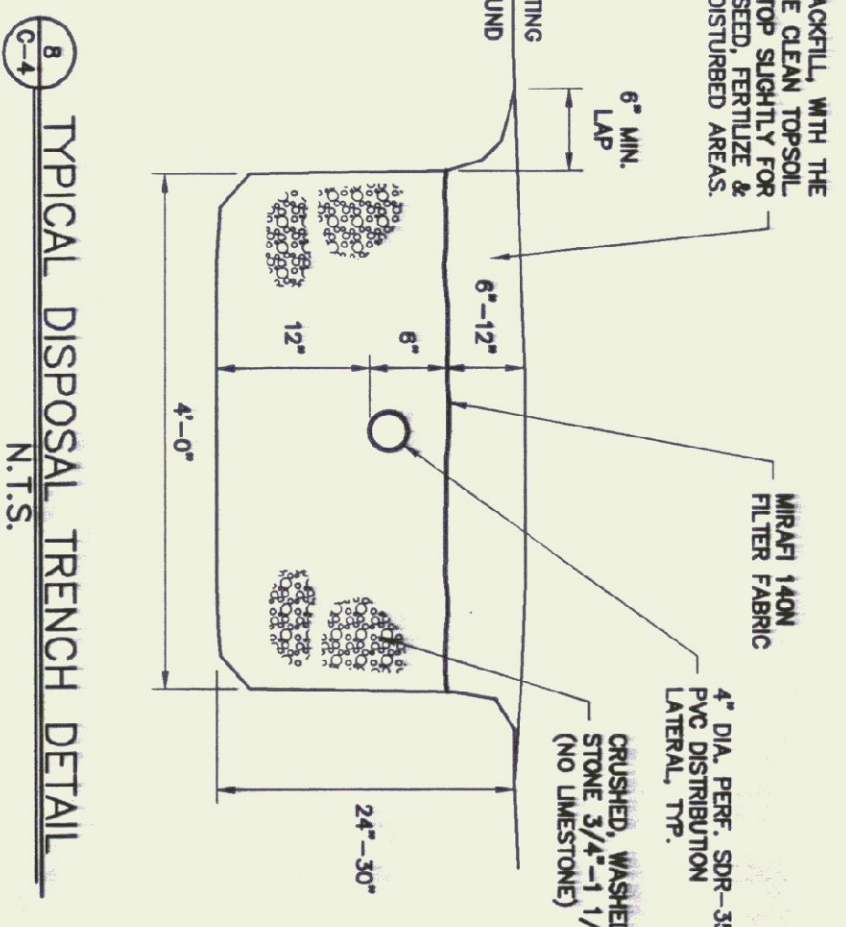
4 WASTEWATER DISPOSAL AREA SECTION A-A  
 N.T.S.



3 WATER/SEWER INSULATION DETAIL  
 N.T.S.



5 TYPICAL DISPOSAL TRENCH DETAIL  
 N.T.S.



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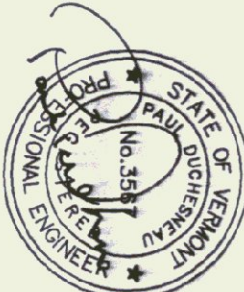
AGENCY OF TRANSPORTATION  
 HIGHGATE MAINTENANCE FACILITY  
 HIGHGATE VERMONT

SCALE: AS NOTED  
 DATE: 08/03/01  
 DRAWN BY: CCE  
 APPR. BY: PD

REVISIONS  
 HIGHGATE  
 MAINTENANCE GARAGE  
 WASTEWATER PLAN

C-4

4 OF 7



STATE OF VERMONT  
 DEPARTMENT OF BUILDINGS  
 AND GENERAL SERVICES  
 AGENCY OF ADMINISTRATION  
 MONTPELIER, VERMONT



Approved By: [Signature]  
 Permit #: WVD-6-0534  
 DATE: 8/16/01

"APPROVED"  
 Department of Environmental Conservation