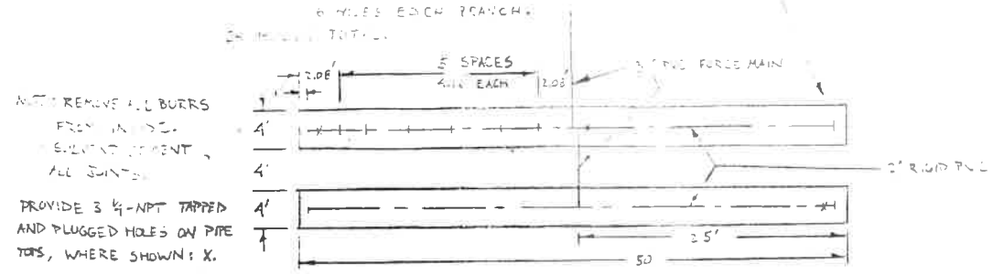
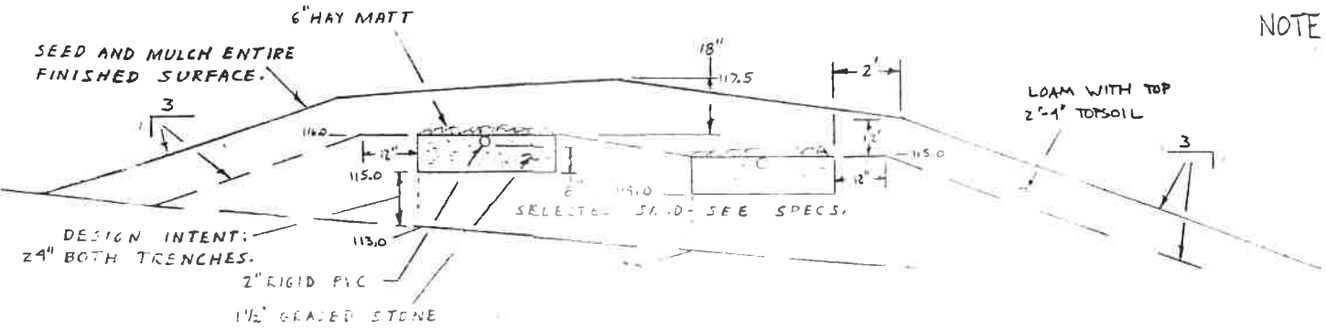


LOWER TRENCH: 9/32" DRILL DIA. SPACED SAME AS UPPER TRENCH.

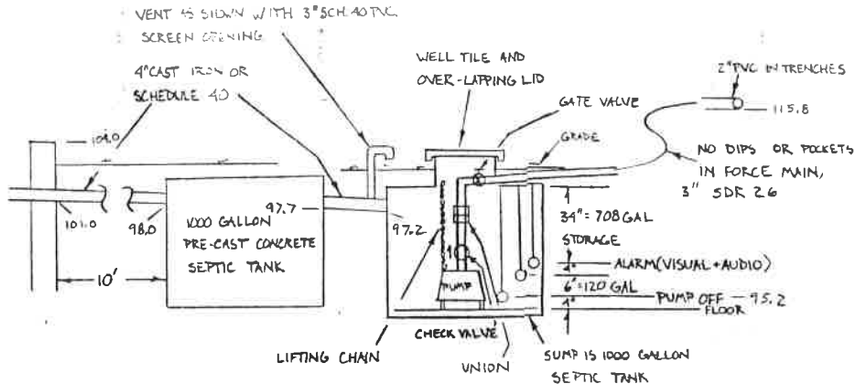
FILTER TRENCHES PLAN VIEW NTS

LONGITUDINAL SECTION NTS



PRESSURE: AT ORIFICE 15 PSI MIN
300 FT OF 3" @ 50 GPM = .9 PSI LOSS
ELEVATION DIFFERENCE - SUMP FLOOR TO DRILLED PVC = 115.8 - 95.2 = 20.6 FT (9.0 PSI)
TOTAL: 1.3 + .9 - 9.0 = 11.2 PSI (26.0 FT)
SELECTED IS MYERS WHR H10 CAPABLE
50 GPM @ 37.0 TOND (16.1 PSI)

SAND SPECIFICATIONS:
95% TO PASS NO. 10 SIEVE
30%-50% TO PASS NO. 40 SIEVE
5%-10% TO PASS NO. 200 SIEVE



SEPTIC SYSTEM PROFILE NTS

NOTE: INSTALLER'S RESPONSIBILITY TO PREVENT FORCE MAIN FROM FREEZING AND TO PREVENT TANKS FROM LIFTING DUE TO BUOYANCY.

"PROTECTED AREA" - 50' MIN.

1. MOLDBOARD PLOW (PARALLEL TO CONTOUR AND TRENCHES) TO 8" DEPTH, ENTIRE AREA TO BE COVERED. TOPSOIL MUST NOT BE REMOVED.
2. BEING IN SELECTED SAND: DUMP ON FLAT UPHILL SIDE AND DRIVING OVER FILLED AREA IN PROTECTED AREA.
3. SHAPE AS SHOWN. ALLOW TO SETTLE 14 DAYS ±.
4. DIG FOR TRENCHES AND BUILD. THE DESIGN INTENT MUST BE SATISFIED.
5. FOLLOWING INSPECTION AND TESTING, MAY BE COVERED. SEED, MULCH, ETC. EROSION MUST NOT OCCUR AND IS RESPONSIBILITY OF OWNER AND BUILDER.

THIS MOUND DESIGN FOR 2 TO 60 MINUTES PER INCH PERC RATE, LEDGE AND WATER TABLE AT 24" OR BELOW.
FOR A 3-BEDROOM DWELLING, 450 GALLONS PER DAY.
SAND LOADING RATE: 1.2 GAL/SQ.FT./DAY
∴ 375 SQ. FT. OF TRENCH NEEDED.
100 LINEAR FT. X 4 FT. WIDE = 400 SQ.FT.
50 - USE 2-50 FT. LONG X 4 FT. WIDE TRENCHES.

BASAL AREA MUST BE 450 ÷ .74 = 608 SQ.FT.
BASAL AREA SHOWN IS 50' X 42' = 2,100 SQ.FT.

STATE OF VERMONT NORTH CAROLINA No. 3020 REGISTERED PROFESSIONAL ENGINEER

SHEET 2 OF 2
MOUND SYSTEM DETAILS

WALTER WALDRIP,
GRANVILLE