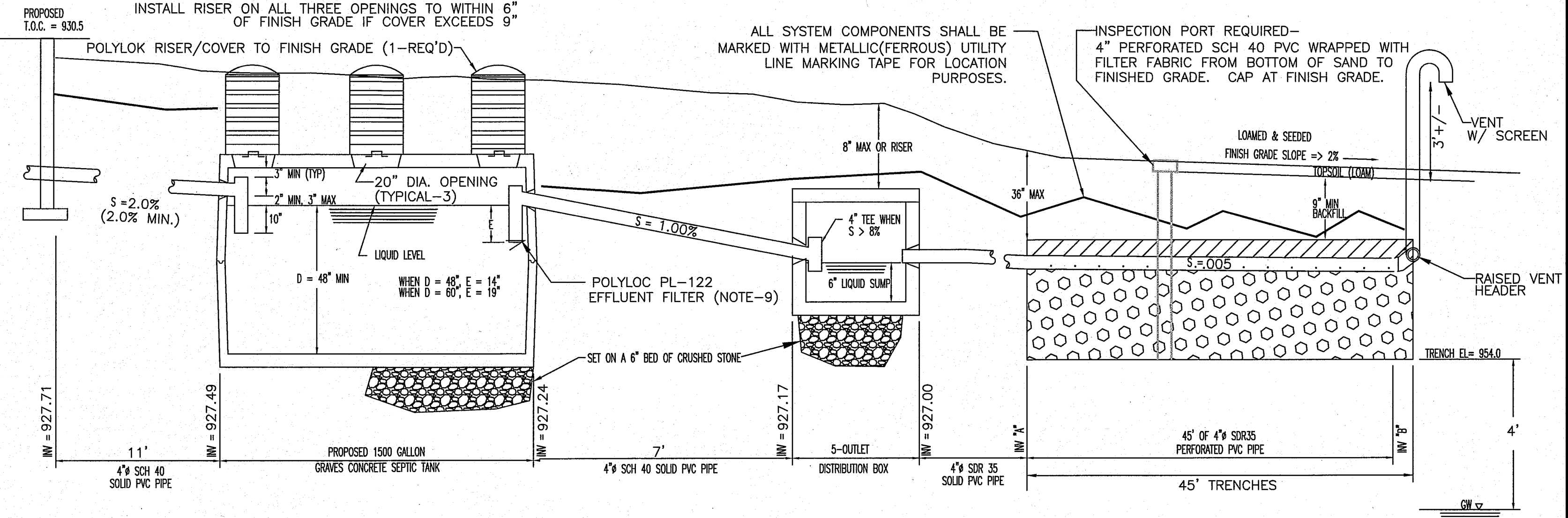
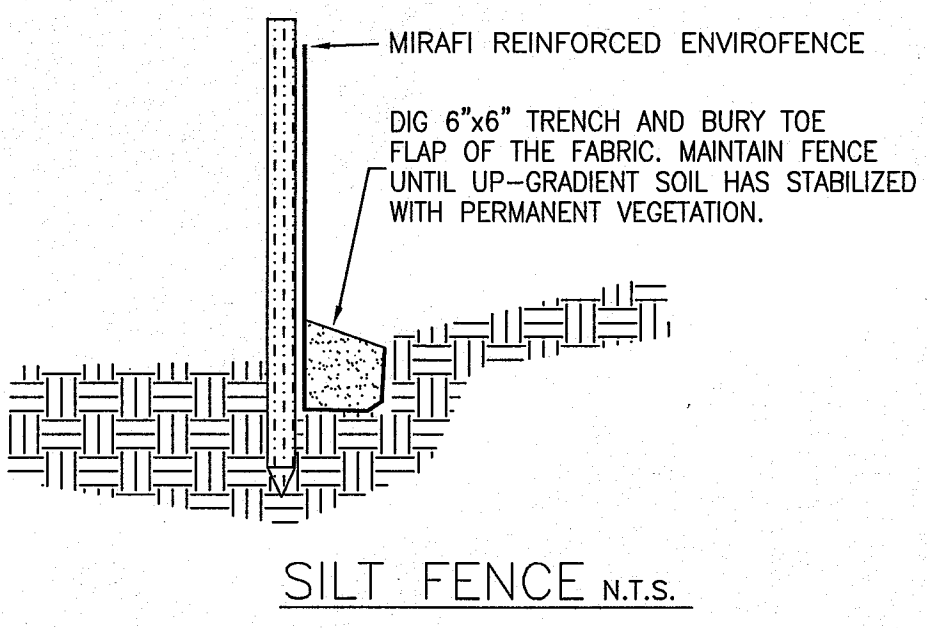
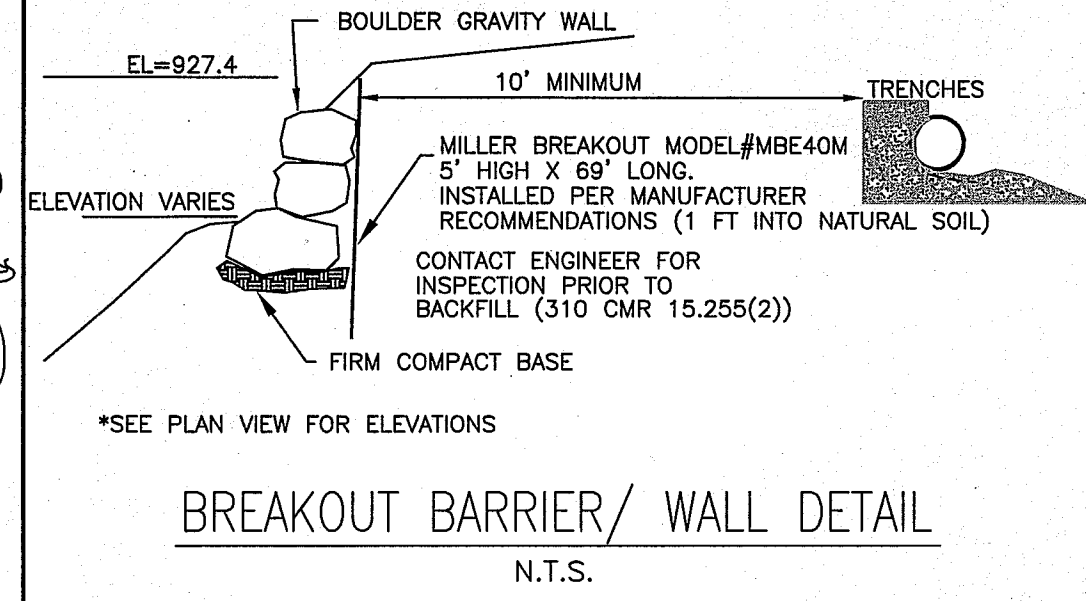
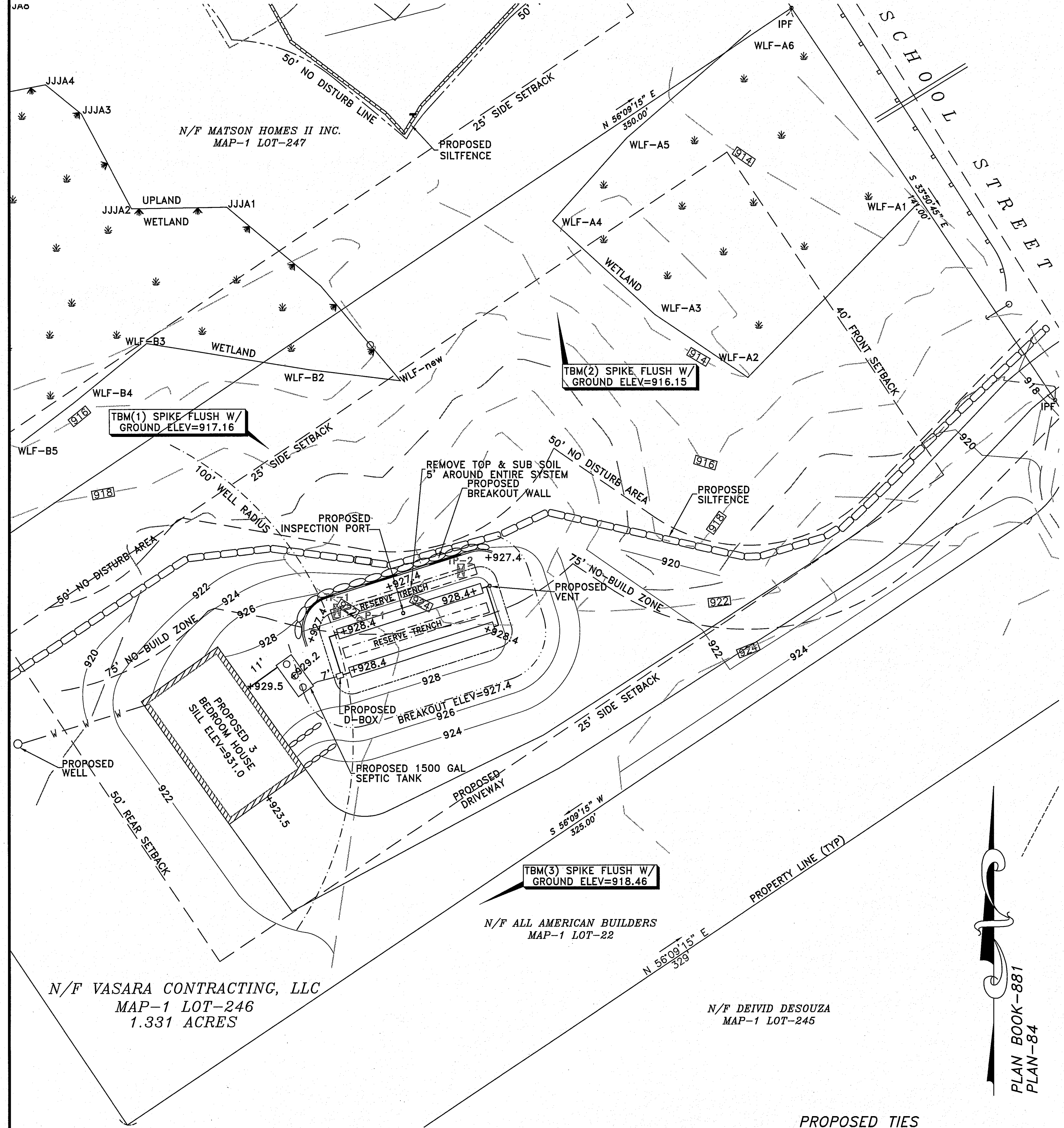


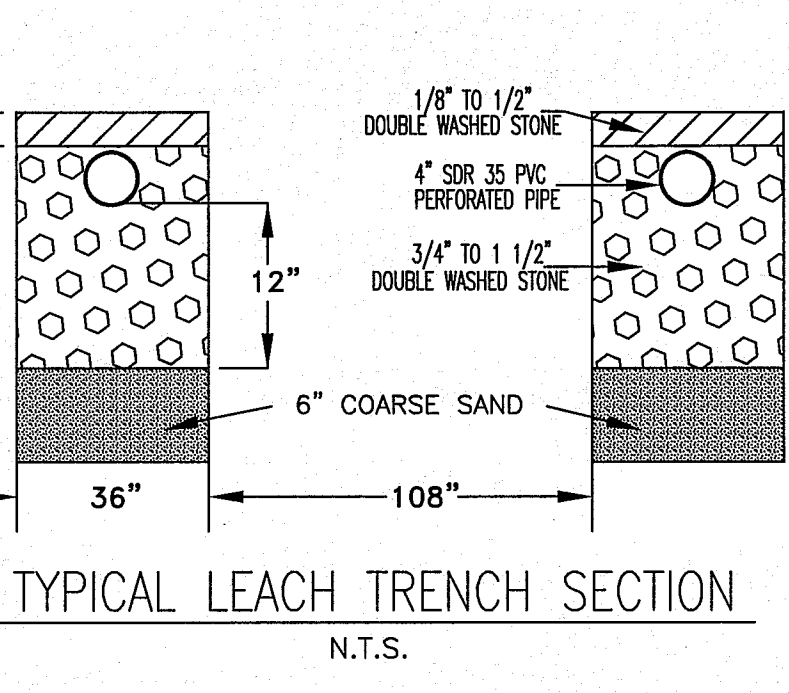
LOCUS NTS



TRENCH ELEVATIONS				
TRENCH #	PIPE INV 'X'	PIPE INV 'Y'	TRENCH ELEV	BREAKOUT
1 & 2	926.90	926.67	925.67	927.40
EX. GND. EL.	923.5	921.67		



SCHEMATIC PROFILE N.T.S.



DESIGN CRITERIA

- Estimated Hydraulic Loading
3 bedrooms at 110 gals/day/bedroom = 330 gpd
Garbage disposal shall not be allowed with this system.
- Septic tank size = 1500 gallon (Proposed)
- Leaching Area Design Criteria
Percolation Rate = 3 MPI
Soil Class Type = 1 (LOAMY SAND)
Allowable Loading Rate = 0.74 gpd/sf
Required Leaching Area = 330 gpd / 0.74 gpd/sf = 446 sf (Per Title V)
Leaching Area Provided = 2 trenches X 45 ft trench length X 5sf/lf = 450 sf
- Breakout
Breakout Elevation = 927.4
Breakout Distance = 15 ft
Distance Provided = 15 ft.

LEGEND

- 242 EXISTING CONTOUR
- 242 PROPOSED CONTOUR
- 242 AS-BUILT CONTOUR
- TP-1A DEEP HOLE TEST PIT
- P-1A PERCOLATION TEST
- + 238.6 SPOT ELEVATION
- W WATER SERVICE
- X X X EXISTING FENCE
- LOW-LOW LIMIT OF WORK

GENERAL NOTES

- Unless otherwise noted, property lines shown are compiled from existing plans and deeds of record. Proposed buildings and septic system should be located by instrument survey prior to construction.
- Underground utility data is plotted from visible field locations and available records. The locations are approximate only and verification must be made in the field.
- All construction to conform to 310 CMR 15.000, "The State Environmental Code, Title 5" and the Board of Health requirements for the Town of Winchendon.
- The contractor shall install the system exactly as shown on this plan. If changes are necessary, the contractor must contact the Engineer in advance.
- Heavy machinery shall not be permitted to pass over the leaching area and the contractor shall stake and flag the soil absorption/leaching area perimeter upon completion.
- All piping shall be polyvinyl chloride (PVC) pipe per ASTM D1785 for sch.40 and ASTM D3034 for SDR35 where indicated on the profile, unless otherwise noted.
- The distribution box (D-box) shall be a 5 outlet reinforced concrete box of H-10 load design (min.) with a watertight cover and conform to all the requirements of 310 CMR 15.232.
- All topsoil, subsoil and impervious material, if any, must be excavated and removed below and 5' beyond the soil absorption system area. Fill material shall consist of a clean granular sand, free from organic matter and deleterious substances. Mixtures and layers of different classes of soil not be used. The sand fill shall not contain any material larger than 2 inches. A sieve analysis, using a #4 sieve, shall be performed on a representative sample of the fill. Up to 45% by weight of the fill sample may be retained on the #4 sieve. Sieve analyses also shall be performed on the fraction of the fill sample passing the #4 sieve, such analyses must demonstrate that the material meets or exceeds each of the following specifications: 100% passing #4 sieve; 10%-100% passing #50 sieve; 0%-20% passing #100 sieve; 0%-5% passing #200 sieve. (11/95 DEP SPEC)
- For proper performance, septic tank should be inspected at least once a year and pumped when the top of the sludge or solids layer is within 12" or less of the bottom of the outlet tee or the bottom of the scum layer is within 2 inches of the bottom of outlet tee (every 2 or 3 years). INSPECT & CLEAN THE TANK OUTLET FILTER EVERY YEAR!
- There are no other wells located within 150 feet of the proposed system. (Except as shown)
- Elevations are current vertical datum (NAVD 88).
- There are no other wetlands, flood zones, water-supply zones, wellhead zones, or NHESP habitats within 200 feet of the work/system.
- Wetlands shown on this plan were approved under a previous NOI/ Order of Conditions (Expired). Prior to work, a new Order of Conditions must be issued.

SOIL TEST DATA

DEEP HOLE & PERC TESTS

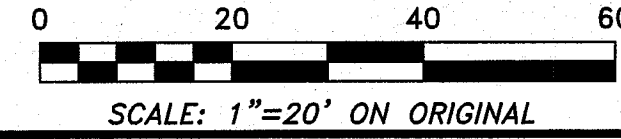
PERFORMED BY: PAUL GRASEWICZ, P. E.
 WITNESSED BY: STEVE CALICHMAN & JIM ABARE, WINCHENDON B.O.H.
 DATE: DECEMBER 11, 2017

DEEP HOLE #	DEPTH	PERC RATE	NOTES
TP-1	23"	3 MPI	
TP-2	40"	2 MPI	

I CERTIFY THAT I HAVE PASSED THE DEP SOIL EVALUATOR EXAMINATION IN APRIL OF 1995 AND THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018(2).

N/F VASARA CONTRACTING, LLC
MAP-1 LOT-246
1.331 ACRES

N/F DEIVID DESOUSA
MAP-1 LOT-245



PROPOSED TIES

CL-TRENCH	TBM-1	TBM-3
CL-TRENCH-1 A	70.9'	79.2'
CL-TRENCH-1 B	85.6'	82.9'

PLAN BOOK-881
PLAN-84

NO.	DESCRIPTION	DATE	BY
2	REVISED HOUSE AND DRIVEWAY LOCATION	9-20-23	TNR
2	ADDED BREAKOUT WALL DETAIL	8-27-20	TWF
1	REVISED PER SITE INSPECT W/ D. KOONCE	11-13-19	PFG

DESIGNED BY TWF
 DRAWN BY TWF
 CHECKED BY PFG
 DATE 8/29/19
 SCALE 1"=20'
 JOB NUMBER 16006

SEPTIC SYSTEM DESIGN & NOI PLAN
MAP-1 LOT-246
610 SCHOOL STREET, WINCHENDON, MA
 PREPARED FOR:
MICAHA KETOLA- VASARA CONTRACTING, LLC

GRAZ Engineering, LLC

323 WEST LAKE RD.; FITZWILLIAM, NH 03447; (603) 585-6959