

THE PREPARER OF THIS PLAN (JOHN DELINE D.B.A./ DELINE ENGINEERING) IS NOT A LICENSED OR REGISTERED LAND SURVEYOR AND, THEREFORE, THE BOUNDARY LOCATIONS SHOWN ON THIS PLAN ARE NOT INTENDED TO REPRESENT THE RESULTS OF A LEGAL LAND SURVEY. THE BOUNDARY LOCATIONS SHOWN ARE ONLY A SUMMARY OF EXISTING INFORMATION (SURVEY PLANS, DEED DESCRIPTIONS, ETC.) ON THE BOUNDS OF THE PROPERTY RELATIVE TO THE EXISTING MONUMENTS/MARKERS OBSERVED AT THE SUBJECT PROPERTY. THE BOUNDARY LOCATIONS SHOWN ARE INTENDED SOLELY FOR DEVELOPING REFERENCE POINTS FOR THE INSTALLATION OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. NO WARRANTY OF ACCURACY OF PROPERTY BOUNDARY LOCATIONS IS EXPRESSED OR IMPLIED BY THIS PLAN.

SOIL EVALUATION RESULTS

Tests completed by: John M. Deline, Jr., R.S., Licensed Soil Evaluator
 Witnessed by: Steve Calichman, R.S., Winchendon B.O.H.
 Date(s) Completed: Percolation Tests: 08/21/23
 Deep Observation Holes: 08/21/23

Deep Observ. Hole - DH - #1	Existing Grade Elevation = 97.50 FT.	Deep Observ. Hole - DH - #2	Existing Grade Elevation = 99.00 FT.
0'-0" O/A SL 10YR 3/1		0'-6" O/A SL 10YR 3/1	
7'-22" Bw SL 7.5YR 4/6		6'-23" Bw SL 7.5YR 4/6	
22'-94" C Sand, fine	10YR 5/6	23'-95" C Sand, fine/med.	2.5Y 5/6
No refusal.		No refusal.	
Weeping Observ. at: none		Weeping Observ. at: none	
Standing Water at: none		Standing Water at: none	
Greater than 5% mottling observed at: no mottling observed		Greater than 5% mottling observed at: no mottling observed	
E.S.H.G.W.T. = > 94 inches		E.S.H.G.W.T. = > 95 inches	

SOIL TEXTURAL CLASS = I
 Percolation Rate: P-#1 = <2 min./inch, P-#2 = <2 min./inch
 use <5 min./inch rate for design (effluent loading rate = 0.74 g.p.d./sq. ft.).

TITLE 5 LOCAL UPGRADE APPROVALS/VARIANCES REQUESTED:

NONE - NEW CONSTRUCTION.

DESIGN CALCULATIONS

ESTIMATED DAILY SEWAGE FLOW
 Three bedrooms X 110 gallons per bedroom per day = 330 gallons per day (g.p.d.).
 Use 1,500 gallon pre-cast concrete tank.

SEPTIC TANK REQUIREMENTS
 330 gallons X 200% = 660 gallons. 310 CMR 15.223 requires minimum of 1,500 gallon tank. Use 1,500 gallon pre-cast concrete tank.

SOIL ABSORPTION SYSTEM - AREA REQUIREMENTS
 With a Type I soil textural class and a percolation rate of <2 min./inch, Effluent Loading Rate = 0.74 g.p.d./sq. ft.
 Area required = 330 g.p.d. divided by 0.74 g.p.d./sq. ft. = 446 square feet

TOTAL LEACHING AREA PROVIDED (PRIMARY) = 450 sq. ft.
 Leach field measuring 15 ft. wide by 30 ft. long with 6 inches of 3/4" - 1-1/2" double-washed crushed stone below the pipe inverts. There shall be three distribution lines with a 5 foot separation between each distribution line and 2.5 feet between the outside distribution lines and the edges of the leach field.
 Total leaching area = 15 feet X 30 feet = 450 sq. ft.

TOTAL LEACHING AREA PROVIDED (RESERVE) = 450 sq. ft.
 Leach field measuring 15 ft. wide by 30 ft. long with 6 inches of 3/4" - 1-1/2" double-washed crushed stone below the pipe inverts. There shall be three distribution lines with a 5 foot separation between each distribution line and 2.5 feet between the outside distribution lines and the edges of the leach field.
 Total leaching area = 15 feet X 30 feet = 450 sq. ft.

GENERAL NOTES

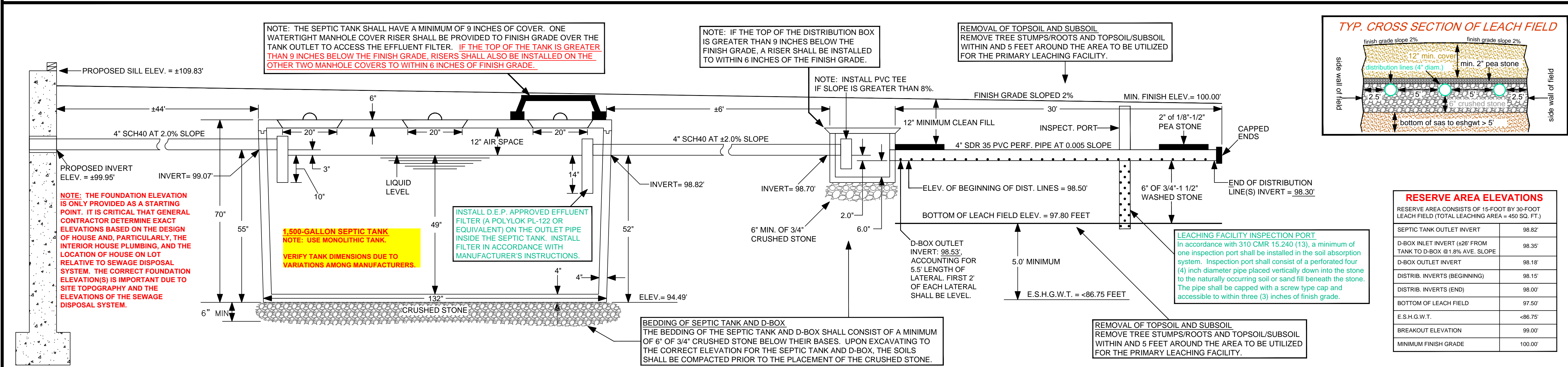
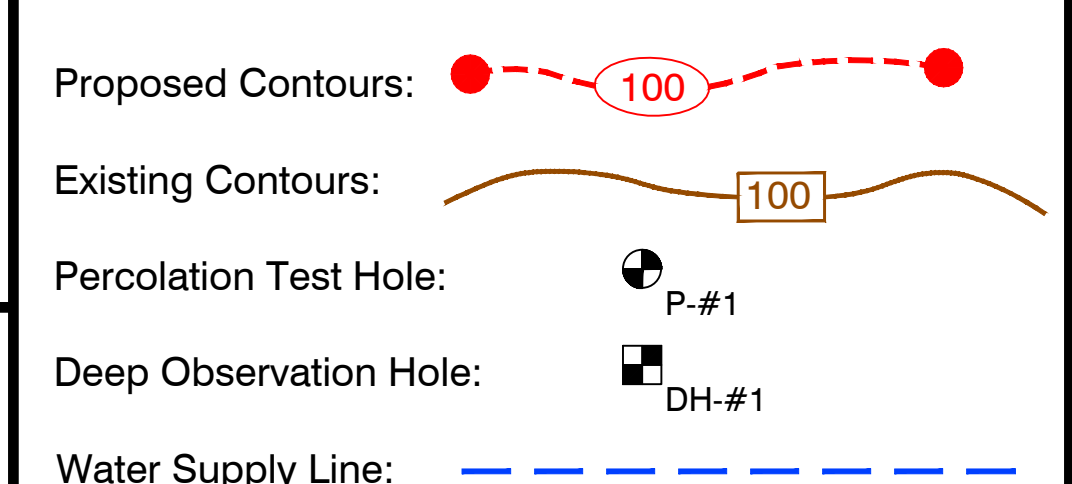
- One 1,500 gallon pre-cast concrete septic tank with a tee on the tank inlet and an effluent filter on the outlet pipe.
- Soil Absorption System Consists of:
 Primary Area: single leach field, 15-ft. wide by 30-ft. long with 6" of crushed stone below the pipe inverts (total leaching area = 450 sq. ft.).
 Reserve Area: single leach field, 15-ft. wide by 30-ft. long with 6" of crushed stone below the pipe inverts (total leaching area = 450 sq. ft.).
- All piping, except distribution lines, are to be SCH40 PVC and shall be watertight. Distribution lines shall be SDR35 PVC sewer pipe.
- All crushed stone used in the leaching facility shall be 3/4" - 1-1/2" in size and shall be double-washed, making it free of clay, iron, fines, and dust and have no more than 0.2% material finer than #200 sieve.
- The installed system shall be left exposed until the agent of the Board of Health and the Design Engineer inspect it.
- Area to be used for soil absorption system (SAS) shall be excavated to virgin ground and all topsoil/subsoil removed. If unsuitable material is found at or below the proposed elevation of the bottom of the SAS, it shall also be removed. Any fill needed to replace excavated material or create mounded system shall be clean coarse sand or fine gravel complying with 310 CMR 15.255 (3).
- This subsurface disposal system has not been designed for a garbage disposal. Therefore, no garbage disposal units shall be installed.
- In accordance with 310 CMR 15.004 (8), no backwash from water filtration/treatment systems shall be disposed of in the subsurface disposal system.
- In accordance with 310 CMR 15.221 (12), all system components shall be marked with magnetic marking tape of a comparable means in order to locate them once buried.
- There are no wetlands within 100 feet of the sewage disposal system except as noted on the plan.

**Commonwealth of Massachusetts
 Town of Winchendon
 Board of Health
 On-Site Sewage Disposal System Plan Review**

This plan has been submitted and reviewed in accordance with 310 CMR 15.00 of the State Environmental Code and is part of the application for a Disposal Works Construction Permit. Permit No. _____ Dated: _____
 NOTE: ISSUANCE OF THIS PERMIT THIS SHALL NOT BE CONSTRUED AS A GUARANTEE OF THE PERFORMANCE OF THE SYSTEM.

APPROVING AUTHORITY SIGNATURE(S):

LEGEND



**PLAN FOR AN
 ON-SITE SEWAGE DISPOSAL SYSTEM
 FOR A PROPOSED
 THREE BEDROOM DWELLING AT
 340 MILL GLEN NORTH
 WINCHENDON, MA
 APPLIC./OWNER: RON AMIDON**

DELINE ENGINEERING
 146 WINCHENDON ROAD, ROYALSTON, MA 01368
 TEL. (978) 249 - 6214 FAX (978) 249 - 6214

Designed By: JMD
 Drawn By: JMD
 Checked By: JMD
 Original Plan Date: 02/02/24
 Plan Revision #: 1
 Current Revision Date: 02/02/24

John M. Deline, Jr.