

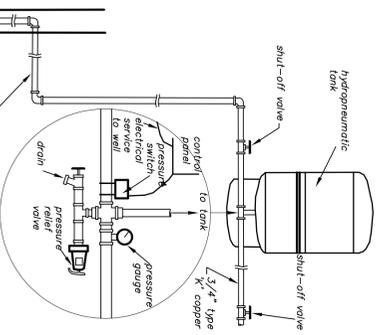
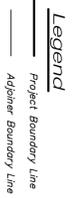
IMPORTANT NOTE:
This is not a boundary survey. No corrections, expressed or otherwise, shall be made to the survey shown hereon. The boundary lines shown hereon were based solely on a survey conducted by LaRose Surveys, P.C. and dated March 25, 2014, last revised December 11, 2014. LaRose Surveys, P.C. waives any and all claims, rights, and remedies, including those relating to the boundary lines shown hereon including but not limited to setback lines and encroachments.

Individual Drilled Well Design Data

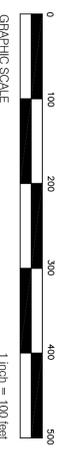
- The drilled well(s) construction, location, distribution, and testing shall be in accordance with the State of Vermont Water Supply Rules.
- The basis of design for each drilled well is:
 - Average Day Demand: 140 gal x # of bedrooms for the first three bedrooms, and 70 bedrooms for each additional bedroom
 - Maximum Daily Demand: (140 gal x # of bedrooms) / 720 min/day = 0.56 gal (3 bedrooms) 0.68 gal (4 bedrooms)
 - Operating pressure range: 40-60 psi at pressure switch



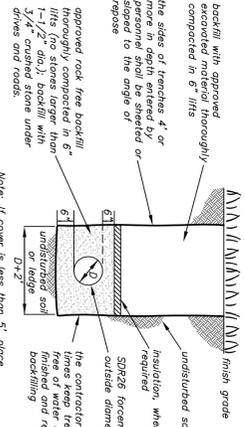
welded and associated 50' buffer provided by Planning & Zoning maps



Typical Individual Water System



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Foremain Trench

- Foremain Trench Notes:**
- Backfill and bedding shall be properly compacted.
 - Bedding material shall normally consist of well-graded sands and gravels with a minimum size of 3/4".
 - Backfill shall not contain:
 - Large stones larger than 12" (1-1/2" max. diameter within 2' of the outside of the pipe)
 - Be greater than 50 pounds.
 - Capable of freezing, wet or organic material.
 - Foremain trench insulation at the rate of 1" for every foot less than 4' of cover over foremain.
 - Foremain shall be tested for leakage.
 - 4" RT only crossing under a road or drive, foremain shall be encased in a 4" PVC pipe.
 - The sides of the trenches 4' or more in depth entered by personnel shall be shored or sloped to the angle of repose as defined by O.S.H.A. standards.

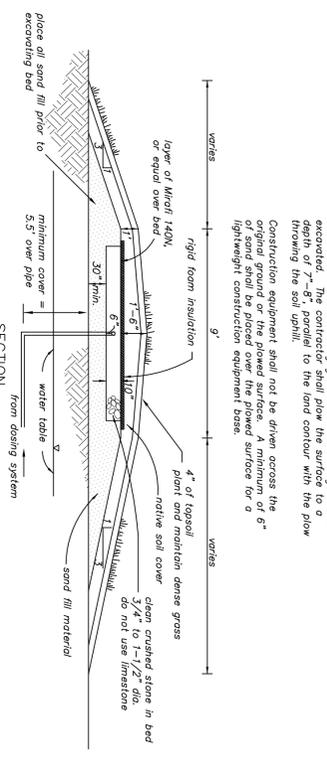


Sewage Design Information

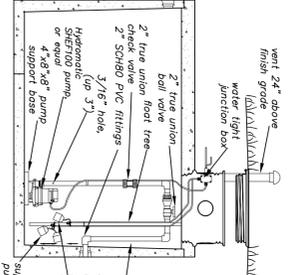
- The proposed sewage disposal system shall be constructed in accordance with all applicable Vermont Regulations and the State of Vermont Environmental Protection Rules.
- Basis of design:

Lot 1	Number of bedrooms = 4	Number of occupants = 7	Application Rate = 1.0 gal/d/sf	Required Disposal Area = 490 sqd/sf	Disposal Area Provided = 7' x 70' bed = 490 sf
Lot 2	Number of bedrooms = 7	Number of occupants = 14	Application Rate = 1.0 gal/d/sf	Required Disposal Area = 490 sqd/sf	Disposal Area Provided = 7' x 70' bed = 490 sf
Lot 3	Number of bedrooms = 4	Number of occupants = 7	Application Rate = 1.0 gal/d/sf	Required Disposal Area = 490 sqd/sf	Disposal Area Provided = 7' x 70' bed = 490 sf
- The use of garbage disposals is not recommended.
- If a water treatment system (water softener) is going to be used, the backwash water may not be discharged into the disposal system.

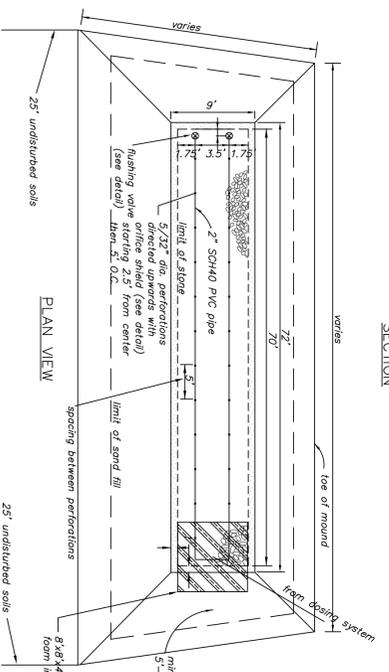
Foremain Trench



Note: Cut and remove all above ground vegetation with a hand saw. The existing ground surface shall be graded or recontoured. The existing ground surface shall be graded or recontoured to a depth of 7"-8" parallel to the land contour with the plow. Construction equipment shall not be driven across the original ground or the plowed surface. A minimum of 6" of sand shall be placed over the plowed surface for a lightweight construction equipment base.



- Design Notes:**
- 4000 psi concrete, 28 day strength.
 - Low pressure seals designed to accept 4" CI, or PVC pipe.
 - Setting for a 123 gallon dose set 6" above the base of the pump with a high level alarm set 6" above the pump on setting. There shall be a minimum of one day storage above alarm on level.
 - It should be noted that any deviation in the location or the septic tank, pump station, or the disposal system from the designed location may require a different size pump.



Mound System Detail

State of Vermont Mound Sand Specifications

Fill Material: The fill material from the natural soil plowed surface to the top of the trench or bed shall be sand texture with one of the following sieve analyses:

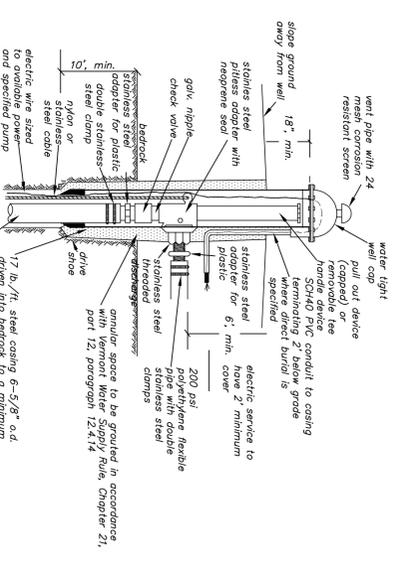
Sieve Number	Opening (mm)	Percent Passing by Weight
3/8	9.500	85 - 100
4/8	0.420	25 - 75
60	0.250	0 - 30
100	0.150	0 - 10
200	0.074	0 - 5

Sieve Number	Opening (mm)	Percent Passing by Weight
4	4.750	95 - 100
8	2.360	80 - 100
16	1.180	40 - 100
30	0.590	25 - 60
50	0.297	10 - 30
100	0.149	2 - 10

Sieve Number	Opening (mm)	Percent Passing by Weight
3/8	9.500	85 - 100
4/8	0.420	0 - 10
200	0.074	0 - 5

The material must meet specifications a, b, or c. Interpretation of applicant is not permitted. Fill material b is ASTM Specification C-33 and is intended for manufactured material.

Typical Individual Drilled Well



Note: The submersible pump model and depth of setting to be specified by engineer and well driller after well is drilled and yield tested (pipe and adapter size to suit also).

Drilled Well Isolation Distances

Item	Horizontal Distance (feet)	Disposal Septic Sewer
Drilled well	50'	50'
Lake and pond impoundment - standing water	50'	25'
Open, stream, rocky ditches	25'	25'
Open, stream, rocky ditches	50'	50'
Main or municipal water lines	25'	5'
Service water lines, parking lots	25'	5'
Top of embankment, or slope greater than 30%	25'	10'
Property line	10'	10'
Open disposal field or replacement area	10'	10'
Foundation, footing drains, curtain drains	35'	10'
Suction water line	100'	50'



an overall site plan showing a subdivision of lands of
SCOTT HARDY
Mount Philo Road
Charlotte, Chittenden County, Vermont
March 26, 2014
PROJECT #13064



Location Plan N.T.S.