TOWN OF SALISBURY
CONNECTICUT

P.O. Box 548
Salisbury, Connecticut 06068

Conservation Commission

Town of Salisbury, Conservation Commission, Application for Regulated Activity Permit

1) Applicants name: Pat Hackett for owner Kevin Eisermann

2) Applicants home address: 16 East Street Lakeville 06039

3) Applicants business address: same as above

4) Applicants Home Phone #: 203 788-9959 Business Phone #: 203 788-9959

5) Owner of property: Name: Kevin Eisermann
Address: 47 State Line Road
Phone #:

Signature of property owner consenting to this application:

_____

6) Applicants interest in the land: Owner's engineer

7) Geographical location of property: See plan

Description of the land: Developed residential parcel

Computation of wetland area or watercourse disturbance: N/A (wetlands fill in 1960s)

8) Purpose and description of the proposed activity: Septic Repair - Replacement

9) Alternatives considered by applicant: No alternative

Why this proposal to alter wetlands was chosen: Wetlands filled. System elevated in same location

10) Site plan showing existing and proposed conditions in relation to wetlands and watercourses:
(Attach map and plans to application) See Plan

11) Names and addresses of adjacent property owners:

North: 05-35 Yolo Farm LLC 264 Belgo Road
South: 05-32 Brammer 45 St Ln Rd, 05-29 Brammer 41 St Ln Rd
East: 05-34 Baldwin 49 State Line Road
West: New York State

12) Certification that the applicant is familiar with all the information provided in the application and is aware of the penalties for obtaining a permit through inaccurate or misleading information:

Signature:_____

13) Authorization for the commissioners and agents of the Commission to inspect the property, at reasonable times, both before and after a final decision has been issued:

Signature:_____

14) DEEP Reporting Form 22A-39-14 provided by applicant (Rev. 3/2013) ✓

15) Any other information the Commission deems necessary to the understanding of what the applicant is proposing:

16) Section 7.6 Requirements, if stipulated by agent

17) Filing Fee: As defined in current Regulations

18) For activities involving a significant activity as determined by the Commission and defined in Section 2 of the regulations the provisions of Article 7.6 must be submitted with the application. (Attach documents).

19) If the affected property is within 500 feet of an adjacent municipality the applicant is responsible for providing documentation that the provisions of 8.9 of the regulations have been satisfied: (Attach documents).

DATE FILED: _____

DATE RECEIVED BY COMMISSION: _____

ACTION: a) INSIGNIFICANT ACTIVITY

CONDITIONS:

DATE OF APPROVAL:

b) SIGNIFICANT ACTIVITY

PUBLIC HEARING DATE:

PUBLIC HEARING DATE + 65 DAYS:

CHECK LIST:

A. PUBLIC NOTICE: DATES PUBLISHED:

B. PROOF THAT APPLICANT HAS MAILED COPIES OF PUBLIC NOTICE TO ABUTTING PROPERTY OWNERS:

C. PROOF OF PROVISIONS OF SECTION 8.2 (IF APPLICABLE):

prh@prhackett.com

From: Four Seasons Service <fourseasonssvc@optonline.net>
Sent: Wednesday, May 1, 2024 8:50 AM
To: prh@prhackett.com
Cc: fourseasonssvc@optonline.net
Subject: RE: Town Of Salisbury

To Whom it may concern,

I Kevin Eisermann give Pat Hackett authorization on my behalf to represent our application at 47 Stateline Rd Lakeville Ct Please feel free to reach out with any questions.

Thank You
Kevin

Four Seasons Swimming Pool Service
PO Box 622
5935 North Elm Ave.
Millerton, NY 12546
518-789-0591

Explore our recently completed & up and coming projects!

4Seasonsswimmingpool

https://instagram.com/4seasonsswimmingpool?utm_medium=copy_link

The septic system at 47 State Line Road has failed and needs to be repaired. The existing leaching area will be reused. Work includes – pumping existing septic tank, filling, and crushing the tank in place, fill area so the new trench is elevated from the seasonal high groundwater. Removed fill will be used in the construction of the berm. No material will be deposited in the surrounding wetland. The parcel was filled for original house and septic system creation back in the 1960s.

No delineation was done given it is evident the area in question was filled wetlands prior to the adoption of any wetland protection. The surrounding land was used in part of the Maltby iron furnace operation.

Sheet 2 of the 2-sheet septic repair plan shows where silt fence should be placed. All construction activity will take place from the front of the house and work it's way out. As part of the TAHD process, I will be required to work closely in the repair implementation.

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
   (print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

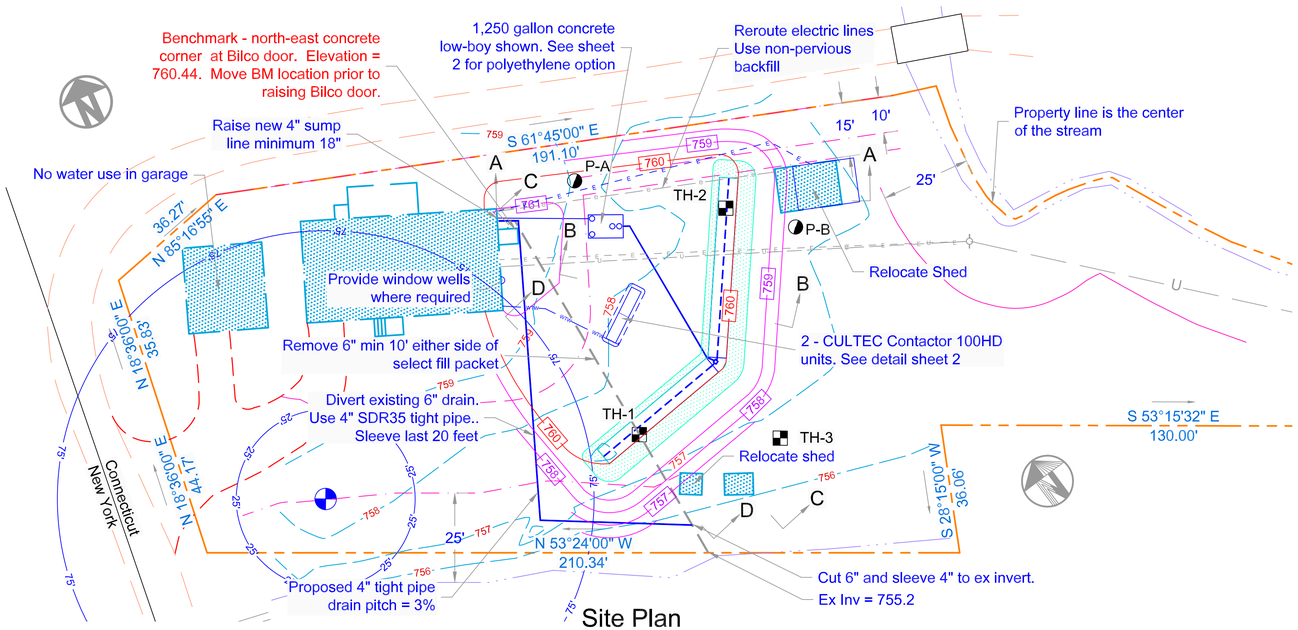
5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Salisbury
   does this project cross municipal boundaries (check one)? yes ☐ no ☑
   if yes, list the other town(s) in which the activity is occurring (print name(s)): _____, _____
6. LOCATION (see instructions for information): USGS quad name: _____ or number: 16
   subregional drainage basin number: 6303
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Kevin Eisermann
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 47 State Line Road
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☑ description:
   Repair existing septic system
9. ACTIVITY *PURPOSE* CODE (see instructions - one code only): A
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 1, 2, 10, _____
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
    wetlands: 0 acres open water body: _____ acres stream: _____ linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.269 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): _____ acres

PART III: To Be Completed By The DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

Patrick R. Hackett, P.E. 12808 16 East Street, Lakeville, Conn. 06039 prh@prhackett.com 203.788.9959



Site Plan

SCALE: 1"= 20'

SEPTIC TANK

Make and Model Chamber: **Richards ST LB 1250**

Inside Available Height: 36 inches
Inside Width: 72 inches
Inside Length: 111 inches
Capacity: 166.5 Cubic Feet Total
1,245.6 Gallons Total
34.6 Gallons per Inch of Depth
Pump Chamber Total Height: 51 inches
Pump Chamber Bottom Thickness: 3 inches
Pump Chamber Top Thickness: 4 inches

Ex ground elev at tank	758.1
Final ground elev at tank	760.7
Fill over original (ft)	2.6
Invert out tank	759.1
Original cover over tank (ft)	-2.0
Final cover over tank (ft)	0.6
Bottom elevation tank	755.9
Depth to WT at tank (in)	15 (TH2)
Elevation of GWT	756.85
Tank into WT (ft)	0.95

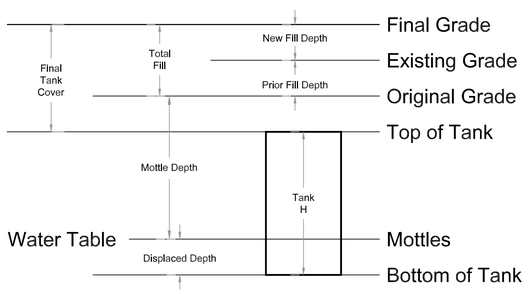
Water Displaced 3,757 Pounds
Actual Chamber Weight: 14,100 Pounds
Lift -10,343 Pounds
Equivalent cover soil -17.80 Inches
epth of final grade to top of tank: 7.2 Inches
Fill over original ground: 31.2 Inches
From Test Hole - SHGW: 15 Inches
Depth to SHWG from final grade : 46.2 Inches
Assumed Density of Cover: 110 PCF

Elevation Location	*Elevation*
Finished floor main house	763.1
Grade at foundation	761.3
Invert out of house	760.1
Ex Ground at Septic Tank	758.1
Invert in septic tank	759.5
Invert out septic tank	759.2
Final Grade Septic	760.7
D-Box	759.1
Invert GST 6212	759.1
Top of GST 6212	759.1
Bottom of GST 6212	758.1
Minimum Bottom Sand	757.6

NEED FOR BALLAST

Make and Model Chamber: **Richards ST LB 1250**

Outside height: 51 inches
Outside width: 78 inches
Outside length: 117 inches
Tank footprint: 63.4 SF
Actual tank weight: 14,100 Pounds
Depth of final cover over tank: 7 inches
Depth of SHWG : 46 inches
Tank height under water: 11 inches
Weight of water tank displaces: 3,757 Pounds
Weight of tank: 14,100 Pounds
Dry Density of Cover: 110 PCF
Min Depth over tank: No Ballast Required
Depth Provided: 7 inches OK



Ballast Calculation Diagram

Water Treatment Wastewater Notes

- The water treatment wastewater (WTW) disposal shall meet the requirements of Section X of the 2024 Technical Standard for Subsurface Sewage Disposal Systems, or latest revision
- The trench shall consist of two Cultech Contactor 100HD units.
- The units shall be installed as part of the SSD repair approval.

Basis of SSD Repair

Type of Use: Residential, Single Family
Number of Bedrooms: 3
Percolation Rate: 19.9 Minutes/Inch
Design Flow: 450 GPD
Minimum Septic Tank Size: 1,000 Gallons
Proposed Septic Tank Size: 1,250 Gallons (low-boy)
Seasonal High Groundwater at: 15 Inches
Design Restrictive Layer at: 37 Inches
Ledge at: N/A Inches
Leaching Area Required: 675 Square Feet
Design Leaching Trench: GST 6212
Leaching area per linear foot: 10 SF/LF
or: 67.5 LF Required
Leaching Area Provided: 900 Square Feet OK
or: 90 LF Provided OK

Since this plan is a repair, no reserve area is shown.

TEST HOLE INFORMATION

Test holes observed by P.R. Hackett, P.E.
Wednesday, April 5, 2023

TH 1
0 - 16 Fill
16 - 24 Original topsoil
24 - 36 Yellow-brown mottled sandy loam
36 - 60 Compact yellow-brown mottled sandy loam
60 - 72 Gleyed fine - medium sand
No Ledge, Water entering 24", Mottles at 20"

TH 2
0 - 3 Topsoil fill
3 - 15 Fill
15 - 25 Yellow-brown mottled sandy loam
25 - 50 Compact yellow-brown mottled sandy loam
50 - 72 Gleyed fine - medium sand
No Ledge, Water entering 15", Mottles at 25"

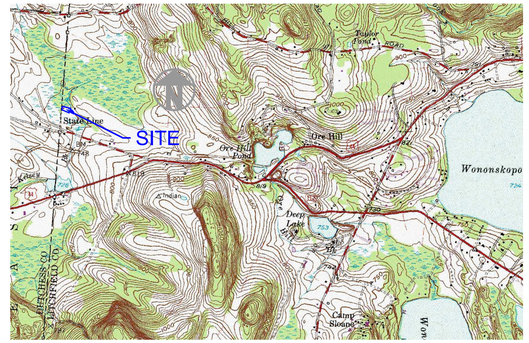
TH 3
0 - 12 Fill
12 - 20 Original topsoil
20 - 48 Yellow-brown mottled sandy loam
48 - 72 Gleyed fine - medium sand
No Ledge, Water entering 26", Mottles at 20"

PERCOLATION TEST INFORMATION

By P.R. Hackett, P.E. Date: 04/07/2024
P-A
Perc ran in existing material
Presoak dry before test
Total Depth: 27 inches
Datum Depth: 26 inches

Time	Depth	Perc Rate (min/in)
0:00:00	5	
0:10:35	9 1/2	2.4
0:20:50	11 1/8	6.3
0:30:55	12 1/16	10.8
0:40:22	12 5/8	16.8
0:50:33	13 1/4	16.3
1:00:30	13 3/4	19.9

Max rate = 19.9 minutes per inch



LOCATION MAP

2000' 1000' 0' 2000'
SCALE: 1"= 2000'

General Notes

- Owner: Kevin Eisermann et al, 47 State Line Road, Lakeville, Volume 270, Page 605, M-L 05-33.
- Engineer: Patrick R. Hackett, 16 East Street, Lakeville, Connecticut, (203) 788-9959, prh@prhackett.com
- Parcel Area: 0.75± acres.
- Property boundary from Town Clerk Map 1782.
- This design is a non-compliant repair area due to seasonal high groundwater in original soil at less than 18".
- The contours are field gathered by PR Hackett. Existing field located by PR Hackett.
- Any existing system encountered during the installation of the system shall be removed and replaced with select fill.
- See sheet 2 for erosion & sediment control measures and SSD Notes.
- Select ASTM C-33 fill estimate is 310 tons. Common fill estimate is 460 CY

MLSS CALCULATION - Category 3, Non-compliant Repair

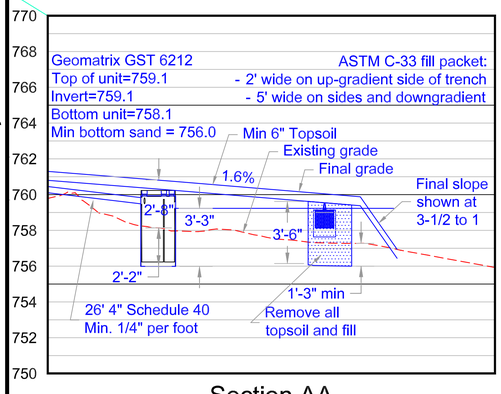
Type Use: Single Family
System to be constructed: Yes, Construction to take Place
Perc Rate = 19.9 Min per inch PF = 1.25
Slope of Land = 2.2% FF = 1.5
Restrictive Layer at LS area, A = 37 Inches HF = 42
= (24" Fill + 15")
Restrictive Layer at 25' DG, B = 20 Inches
RS Depth, less fill/2 = (A+B)/2 = 29 Inches
Receiving Soil Depth, RS = 29 Inches
Number of Bedrooms = 3
MLSS Required = PF x FF x HF
= 1.3 x 1.5 x 42.0
= 78.8 Feet
MLSS Provided = 90.0 Feet OK

Pipe Runs	*Length (ft)*	*High End*	*Low End*	*Proposed Slope (%)*
Length of Pipe from Main House to Septic Tank	26	760.1	759.5	2.3%
Length of Pipe from Septic Tank to D-box	47	759.2	759.1	0.2%

Parcel & Owner Information

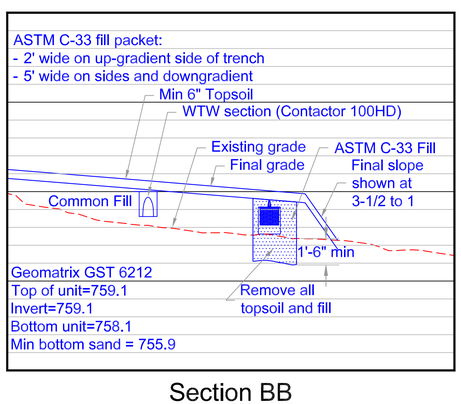
Plan prepared for:	Kevin Eisermann
Parcel acreage:	0.75
Map Lot and Block:	05-33
Project Address:	47 State Line Road
Town and State:	Lakeville, Connecticut

Trench Table	*Width (in)*	*Depth (in)*	*4" Pipe Invert*	*Top Stone*	*Bottom Stone*	*Min Elev Sand*	*Min C-C*	*Length (ft)*	*SF/LF*	*Prov'd*	*Req'd*
GST 6212 12 Inch Deep by 62 Wide	62	12.0	759.1	759.1	758.1	757.6	12'	90.0	10.0	900 sf	675 sf



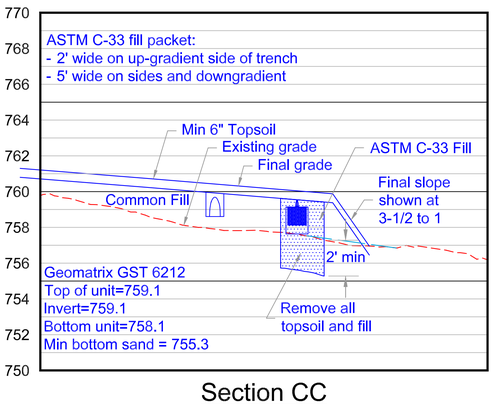
Section AA

Scale: 1" = 20' horizontal, 1" = 4' vertical



Section BB

Scale: 1" = 20' horizontal, 1" = 4' vertical



Section CC

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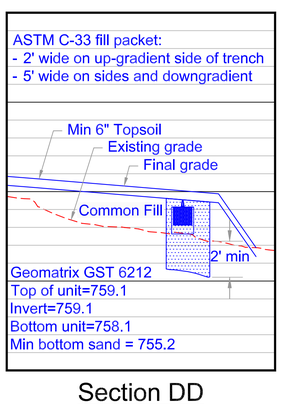


Section DD

Scale: 1" = 20' horizontal, 1" = 4' vertical

PERCOLATION TEST INFORMATION

By P.R. Hackett, P.E. Perc in existing fill
P-B Date: 04/29/2024
Presoak dry before test
Total Depth: 14 inches
Datum Depth: 13 inches

Time	Depth	Perc Rate (min/in)
0:01:10	4	
0:11:21	5 1/2	6.8
0:22:00	7	7.1
0:32:47	7 3/4	14.4
0:43:17	8 1/2	14.0
0:53:10	9 1/8	15.8
1:03:20	9 3/4	16.3

Max rate = 16.3 minutes per inch

Engineer:
Patrick R. Hackett, P.E.
16 East Street
Lakeville, Connecticut 06039

Date: April 17, 2024

Revisions: 1 - 2024-04-29 P-B, WTW

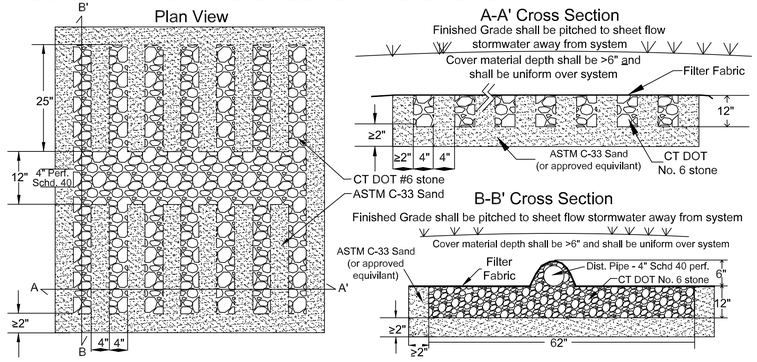
EISERMANN RESIDENCE
47 STATE LINE ROAD
LAKEVILLE, CONNECTICUT
SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR

SSD REPAIR
1 of 2

Patrick R. Hackett, P.E. 12808 16 East Street, Lakeville, Conn. 06039 prh@prhackett.com 203.788.9959

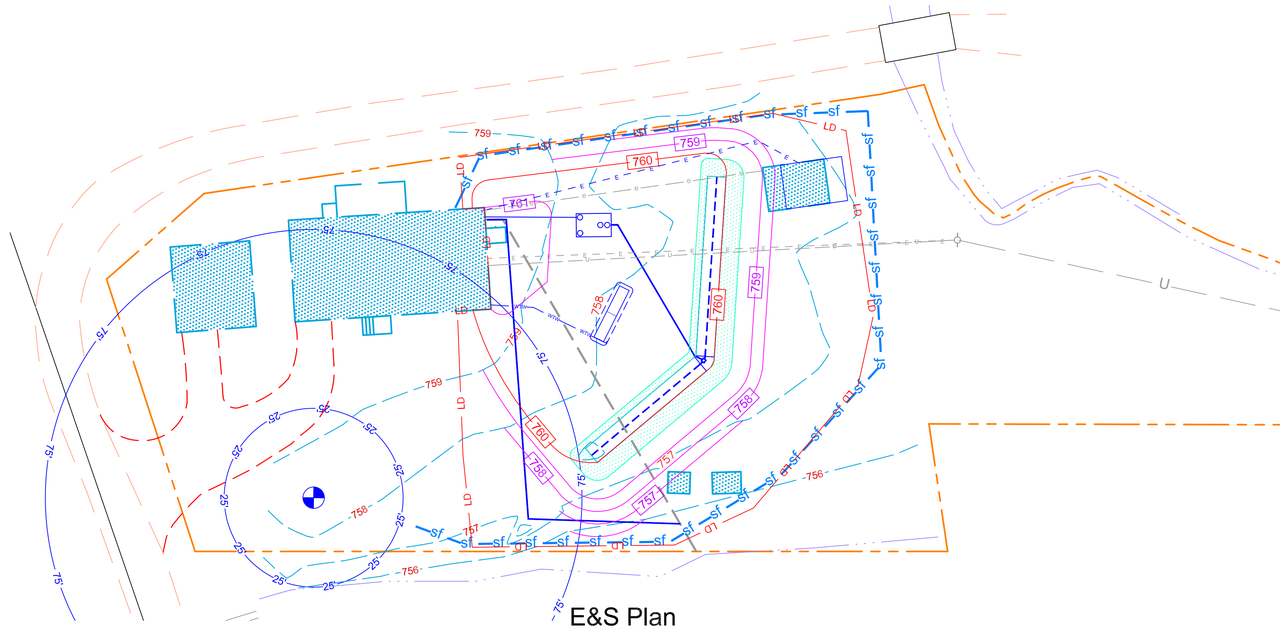
GEOMATRIX GST6212 LEACHING SYSTEM

NOT TO SCALE



SSD NOTES

- Owner Information: See table - Sheet 1
- The engineer shall be notified of any additions, deletions, and/or changes to this plan - Patrick R. Hackett, 16 East Street, Lakeville, Connecticut (203) 788-9959, prh@prhackett.com
- https://portal.ct.gov/-/media/departments-and-agencies/dph/dph/environmental_health/environmental_engineering/ts-2024-documents/2024-technical-standards-final-01012024.pdf (no spaces)
- This map is compiled from other maps, deed dimensions or other sources of information and is not to be construed as an accurate boundary survey and is to be used solely for the construction of the proposed subsurface sewage disposal design and site plan as shown here-in.
- Test holes and percolation tests performed by P.R. Hackett, P.E.
- It is recommended that the house and septic system be staked out by a qualified engineer or land surveyor.
- Plumbing in the basement shall be limited to a washing machine since the invert of the outgoing pipe is higher than the finished basement floor (FBF).
- No water softener, kitchen garbage grinder or tub with a capacity over 100 gallons shall be connected to this system. A water softener must have it's own separate leaching area and a kitchen grinder or large tub requires at a minumum a larger septic tank.
- In the event an ejector sump pumping 25% or more of the daily discharge, the septic tank size shall have 50% more capacity than the minimum required size.
- The contractor shall verify and check elevations PRIOR to actual septic system installation.
- The septic tank shall be a minimum 1,000 gallon capacity or greater. All parts of the septic tank shall conform to Section V of the Technical Standards for dimensions, compartments, outlet filters, access, configuration, marking, testing and construction. Manholes shall extend to grade.
- Pipe between the house and septic tank shall be 4 inch PVC Schedule 40 ASTM D1785 solvent weld coupling/fittings using proper two-step PVC solvent solution procedure or as allowed in Table 2 of Section III, Piping. Any cumulative change in pipe direction of more than 45 degrees shall be not be allowed unless a 36 inch sweep is used.
- All solid pipe after the septic tank may be 4 inch PVC Schedule 40 ASTM D1785 solvent weld coupling/fittings using proper two-step PVC solvent solution procedure or as a minimum as allowed in Table 2-A of Section III, Piping, Approved Effluent Distribution Pipe.
- The bottom of the trench and leaching pipe shall be level throughout. Maximum allowable deviation shall be no greater than 1 inch vertical in 50 feet horizontal.
- Leaching trench consists of 90 feet of Geomatrix GST6212. The design indicates what is required for a 3 bedroom house (MLSS controlled).
- A layer of non-woven filter fabric having a minimum weight of 4.0 OZ/SY (per ASTM D 5261), a minimum permittivity of 1.0 (sec-1)(per ASTM D 4491), and a minimum trapezoid tear of 15 lbs (per ASTM D 4533). Note the minimum weight called out above is more stringent than the minimum allowed in the Health Code (1.5 SY/OZ).
- Septic fill material shall be meet requirements of Section VIII A, of the Technical Standards, Select Fill Material. Fill material shall extend a minimum of 5 feet beyond all trench perimeter. There shall be no more than 5% by weight of calcium carbonate in any select sand material used. The trench sand interface is ASTM-C33 and may prove easier to use all ASTM C33 sand.
- Fill material beyond the last trench shall not be lower than the last trench invert 10 feet beyond the last trench.
- Any large stones or stumps encountered during the trench excavation shall be removed and replaced with septic fill meeting Section VIII A, of the Technical Standards, Select Fill Material.
- The distribution box shall be placed on a six inch (6") compacted gravel base to prevent heaving or settling.
- All inlets and outlets to the septic tank and d-boxes shall be mortared after pipes are installed.
- All erosion and sediment control measures shall be in place prior to start of work and shall be maintained for the duration of the project and removed after all disturbed area have stable vegetative cover.



E&S Plan

SCALE: 1"= 20'

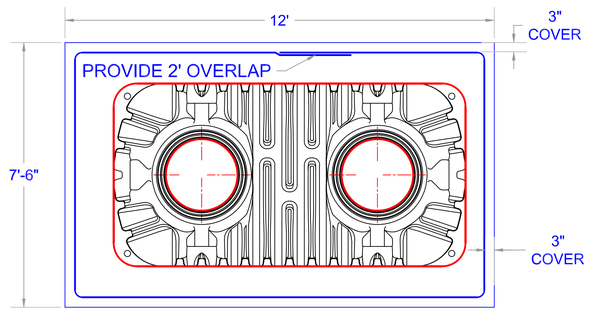
Roth Septic Tank Ballast Notes

The septic tank shown on the plan is a Roth RMT-1250 2 chamber tank approved for use in Connecticut (see appendix D in 2024 Technical Standards). Ballast must be used in order to keep the septic tank from floating in the event the tank is pumped during the seasonal high groundwater time of the year. No ballast is required while the tank is full and functioning at any level of groundwater.

The tank may use different methods to accomplish tiedown. All installation shall use stiffening posts as per manufacturers recommendations. Methods are:

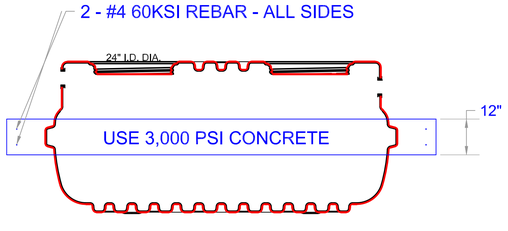
1. Concrete anti-flotation collar: Mid-tank-height, 12" deep, 18" wide, with 2 #4 rebars 3" in from top and bottom.
2. Concrete dead men with three tie down cables. The dead men shall be a foot longer at both ends than the length of the tank, 30" wide, 11" high, be placed on both sides of the tank. Cables shall be 3/16" and rated for 2 tons.
3. Earth anchor with three tie down cables. American Earth Anchor 4ST-60CC-B10 (kit of 10 anchors - only need 6) shall be used. They shall be driven at a 30° angle to zenith away from the tank and at least 3 feet into the bottom of the excavation. Anchors shall be pulled back to secure and additional cable used to wrap the tank.

All cable and hardware shall be galvanized or stainless steel. Earth Anchors shall be



FRALO ST-1000E-2 ANTI-FLOATATION COLLAR PLAN VIEW

Not to Scale



FRALO ST-1000E-2 ANTI-FLOATATION COLLAR ELEVATION

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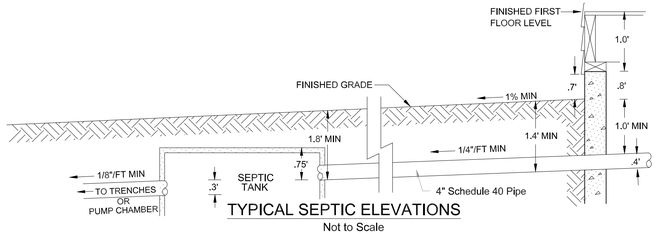
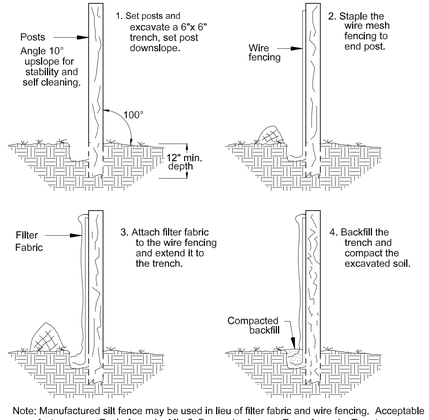


TYPICAL SEPTIC ELEVATIONS

Not to Scale

CULTEC CONTACTOR 100HD WTW TRENCH

Not to Scale



Note: Manufactured silt fence may be used in lieu of filter fabric and wire fencing. Acceptable manufacturers are: Envirofence by Mirafi, Propex by Amoco, Econofence by Terratex, or engineer approved equivalent.

SEDIMENT CONTROL BARRIER

Not to Scale

Engineer:
Patrick R. Hackett, P.E.
16 East Street
Lakeville, Connecticut 06039

Date: April 17, 2024

Revisions:

EISERMANN RESIDENCE
47 STATE LINE ROAD
LAKEVILLE, CONNECTICUT

SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR

SSD
REPAIR
2 of 2