

APPLICATION FOR SITE PLAN APPROVAL

Owner of record: Noelle G Becker, TrAddress of owner: 29 Vassar Place, Lynnbrook, NY 11563Property Location: Tax Map 59 Lot 9 Land Records: Vol. 244 Page 1016Acreage: 0.653 Zone: R-2028426sf
Site Plan Requirements:Soil Erosion and Sediment Control Measures: see plansConservation Commission Approval, if applicable: 4/14/25Historic District Commission Approval, if applicable: naApproval From TAHD: ☒ WPCA: na BHC: na

If applicable, boundaries of flood plain, aquifer protection zone, Housatonic River District, or Historic District should be on Site Plan.

Additional Remarks: _____

Owner's Signature: See IWC permit application Date: _____Applicant's Signature and Title: Engineer for ownerApplicant's address and phone number: 16 East Street, LakevilleFiled at Planning and Zoning Commission Office: 4/17/2025, 2001Date of next regular Commission meeting: 4/21/2025

Date of approval or denial of plan: _____

\$300 pd AC CK# 1789

A decision on a site plan submitted as part of a zoning permit application shall be rendered within 65 days after receipt of the plan at a regular meeting of the Commission. The applicant may request extensions of the decision period, not to exceed two further 65-day periods.

Plan Approval Screen



Print

S

Status Screen
Open Digi SigSwitch To
Fax
Screen

Builder Envelope

Engineer Envelope

Owner Envelope

36

South Shore Rd

Salisbury

Lot #	Street #	Street Name	Town	Subdivision	St	Zip
		Noelle G Becker, Tr	29 Vassar Place	Lynnbrook	N Y	11563
Owner		Owner Address	Town		St	Zip

Not Given

Owner Telephone

Agent's Name

Agent's Phone

Ct

Builder	Builder Address	Town	St	Zip
Patrick R. Hackett, P E				
Engineer	Engineer Address	Town	St	Zip

Repair Septic System

Reason For Testing

☒ Approved☐ Plan Revision Required

26 Feb, 25

Plan Date

17 Mar, 25

Approval Date

Patrick Hackett

Ssds Plan Prepared By

Catherine Weber

Plan Reviewed By

Geomatrix 6218

Septic System Type

1250

Tank Size

868

Sq. Ft. Septic System

62'

Septic System Length

17460

Permit #

3

Of Bedrooms

(2) Perk Tests In Fill By Engineer

Conditions

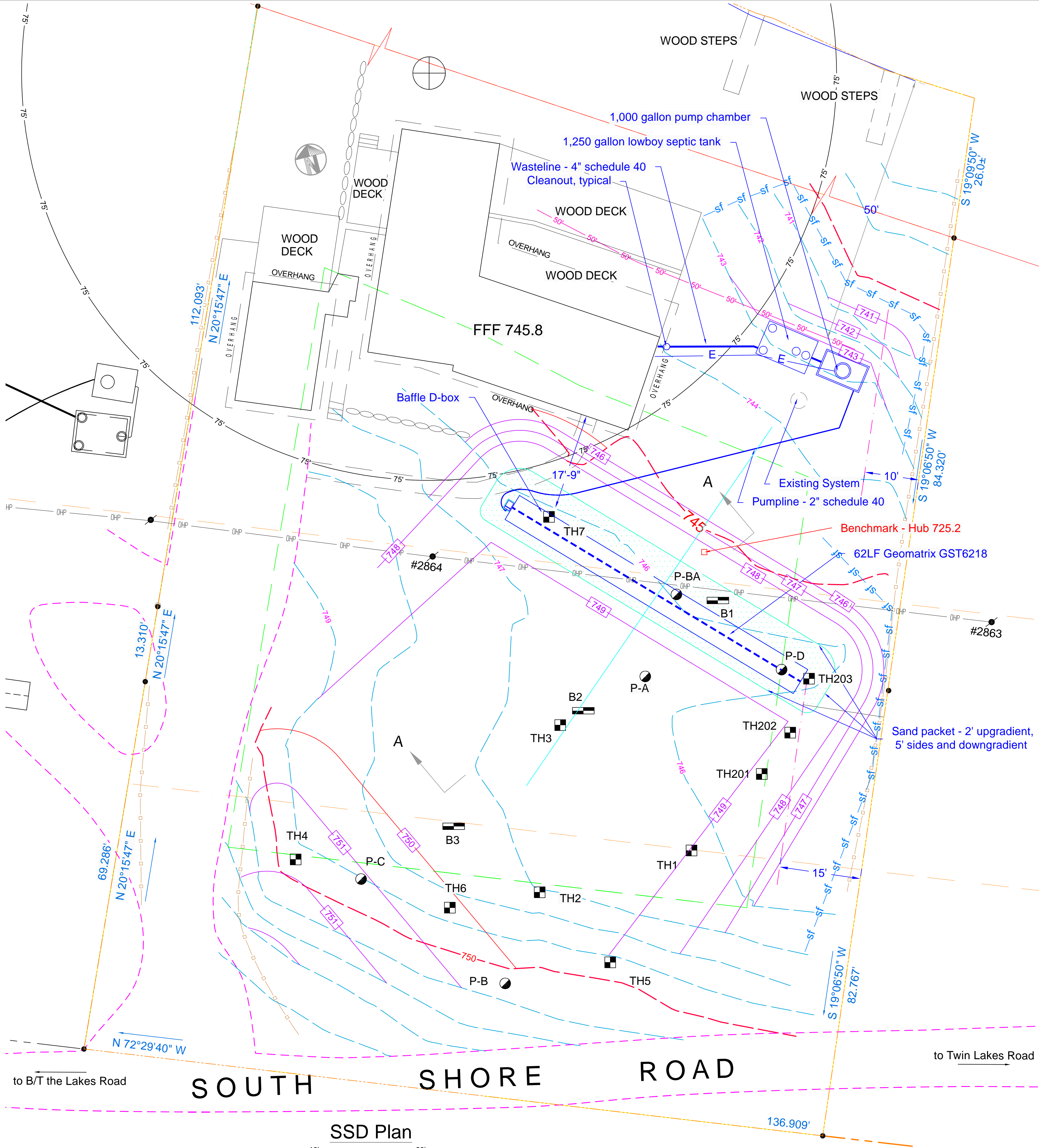
☒ Required☐ Not Required

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Engineer Design | <input checked="" type="checkbox"/> Select Fill Required | <input checked="" type="checkbox"/> As Below |
| <input checked="" type="checkbox"/> Percolation Test In Fill | <input type="checkbox"/> Curtain Drain | <input checked="" type="checkbox"/> In Place Sieve Test Required |
| <input checked="" type="checkbox"/> Engineer As Built Required | <input checked="" type="checkbox"/> Engineer Supervision | <input type="checkbox"/> Low Flow Water Treatment |
| <input checked="" type="checkbox"/> Field Staking By Engineer | <input type="checkbox"/> As-built Installer | |

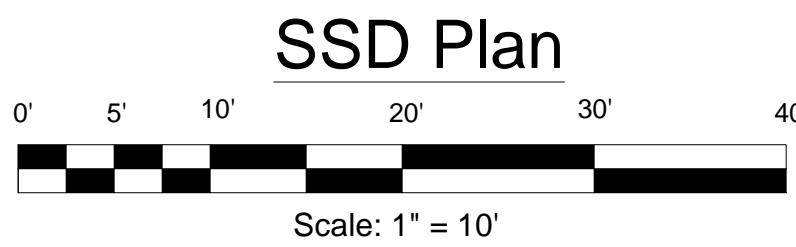
Notes:

THIS IS NOT AN APPROVAL FOR AN ADDITION. SEPTIC REPAIR ONLY AT THIS TIME.

- 1) Septic system to be field staked by a surveyor.
- 2) System to be installed when soil moisture is low.
- 3) Installer to submit a recent sieve analysis for C-33 material to T.A.H.D. prior to placement.
- 4) Installer to contact T.A.H.D. AND the design engineer for a scarification inspection prior to placement of fill.
- 5) NOTE 16" OF COVER NEEDED OVER THE SEPTIC TANK FOR BALLAST PURPOSES. SECONDARY SAFETY DEVICES NEEDED AT CLEAN OUTS IF INTERIOR LIDS LEFT OFF.
- 6) Septic tank and pump chamber to be thoro sealed.
- 7) Existing septic tank/cess pool to be pumped, crushed and filled.
- 8) Note revised benchmark at 745.2 per Pat Hackett.
- 9) It is the owner's responsibility to obtain any necessary approvals from the Inland Wetlands Commission.



Parcel Information	
Plan prepared for:	Hillary & GERALYN BECKER
Parcel acreage:	0.67
Map Lot and Block:	59 / 09 / 1
Project Address:	36 South Shore Road
Town and State:	Salisbury, Connecticut



There are no wells within 75' of the proposed septic system

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 6218 18 Inch Deep by 62 Wide	62	18.0	748.0	748.0	746.5	746.0	13'	62.0	14.0	868 sf	788 sf

Basis of SSD Repair

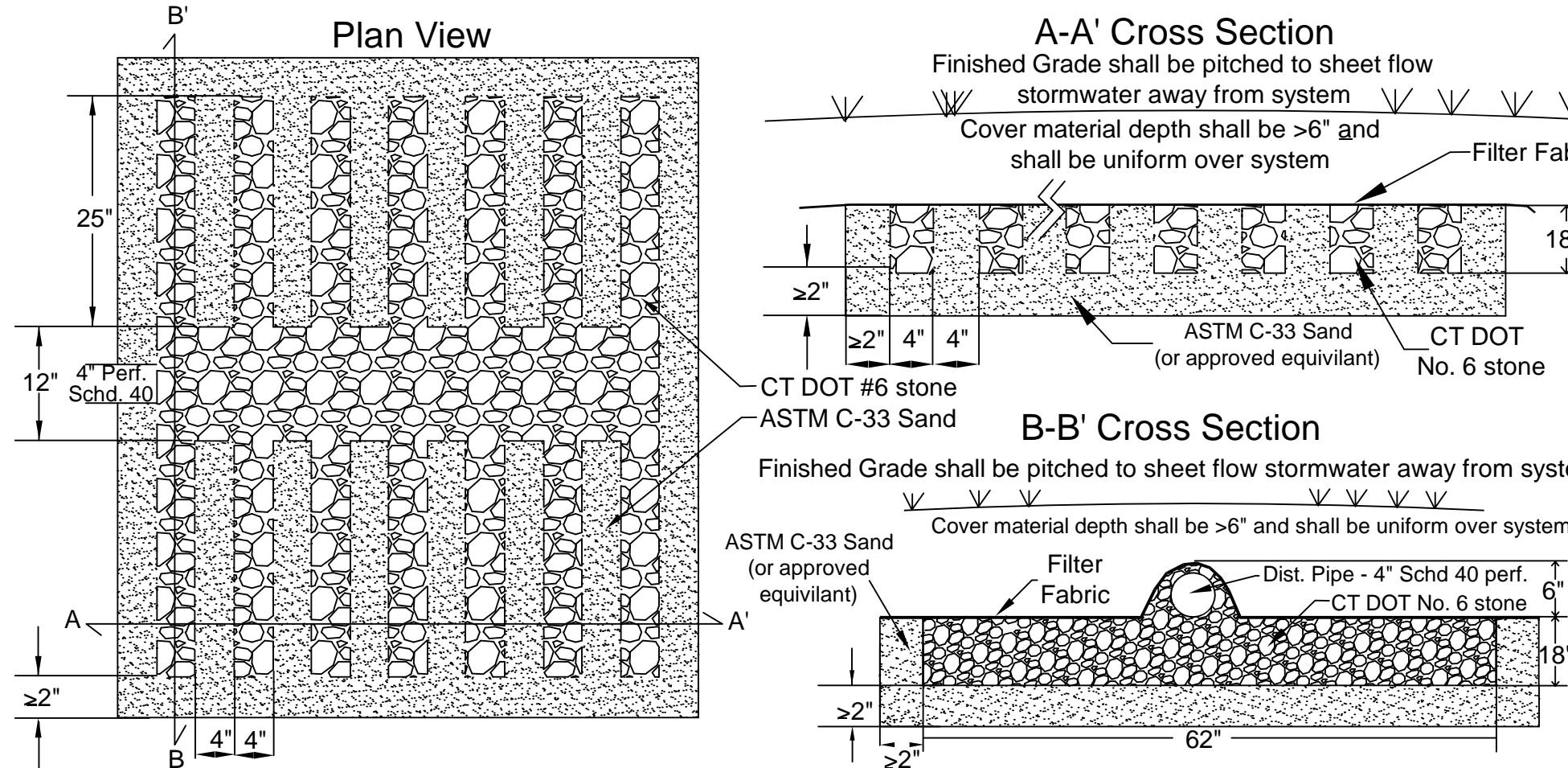
Type of Use:	Residential, Single Family
Number of Bedrooms:	4
Percolation Rate:	11.5 Minutes/Inch
Design Flow:	525 GPD
Minimum Septic Tank Size:	1,125 Gallons
Proposed Septic Tank Size:	1,250 Gallons
Seasonal High Groundwater at:	18 Inches
Design Restrictive Layer at:	30.5 Inches
Ledge at:	N/A Inches
Leaching Area Required:	788 Square Feet
Design Leaching Trench:	GST 6218
Leaching area per linear foot:	14 SF/LF
Leaching Area Provided:	868 Square Feet
	or: 62 LF Provided
	OK

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

MLSS CALCULATION

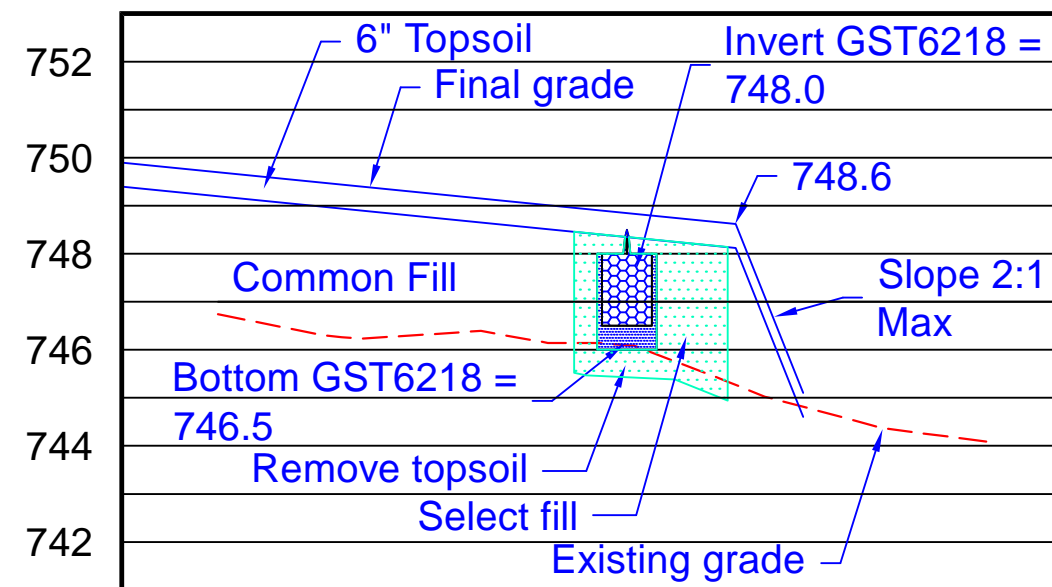
Type Use:	Single Family
System to be constructed:	Yes, Construction to take Place
Perc Rate =	11.5 Min per inch
Slope of Land =	5.3%
Restrictive at leaching system (LS) =	18.0 Inches
Depth of Fill Provided =	22.0 Inches
Restrictive Layer at LS area, A =	40.0 Inches
Restrictive Layer at 25' DG, B =	21.0 Inches
Receiving Soil Depth, RS = (A+B)/2 =	30.5 Inches
Number of Bedrooms =	4
MLSS Required = PF x FF x HF	
	= 1.3 x 1.8 x 28.0
	= 61.3 Feet
MLSS Provided =	62.0 Feet
	OK

GEOMATRIX GST6218 LEACHING SYSTEM



Pipe Runs	Length (ft)	High End	Low End	Proposed Slope (%)
Length of Pipe from House to Septic Tank	19	742.3	741.3	5.3%
Length of Pipe from Septic Tank to Pump Chamber	3	741.0	740.8	6.7%
Length of Pipe from Pump Chamber to Baffle D-box	75	748.2	736.5	-15.6%

Elevation Location	Elevation
Finished first floor house	745.8
Ex Grade at foundation	744.0
Invert out of house	742.3
Avg Ground at Septic Tank	743.2
Invert in septic tank	741.3
Invert out septic tank	741.0
Invert In Pump Chamber	740.8
Invert out Pump Chamber	740.5
Invert In Baffle D-Box	748.2
Invert GST 6218	748.0
Top of GST 6218	748.0
Bottom of GST 6218	746.5
Minimum Bottom Sand	746.0



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

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

Date: August 12, 2024

Revisions: Nov17/2024- TH & PH
Jan 8, 2025 - well note

BECKER RESIDENCE
36 SOUTH SHORE ROAD
SALISBURY, CONNECTICUT

SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR

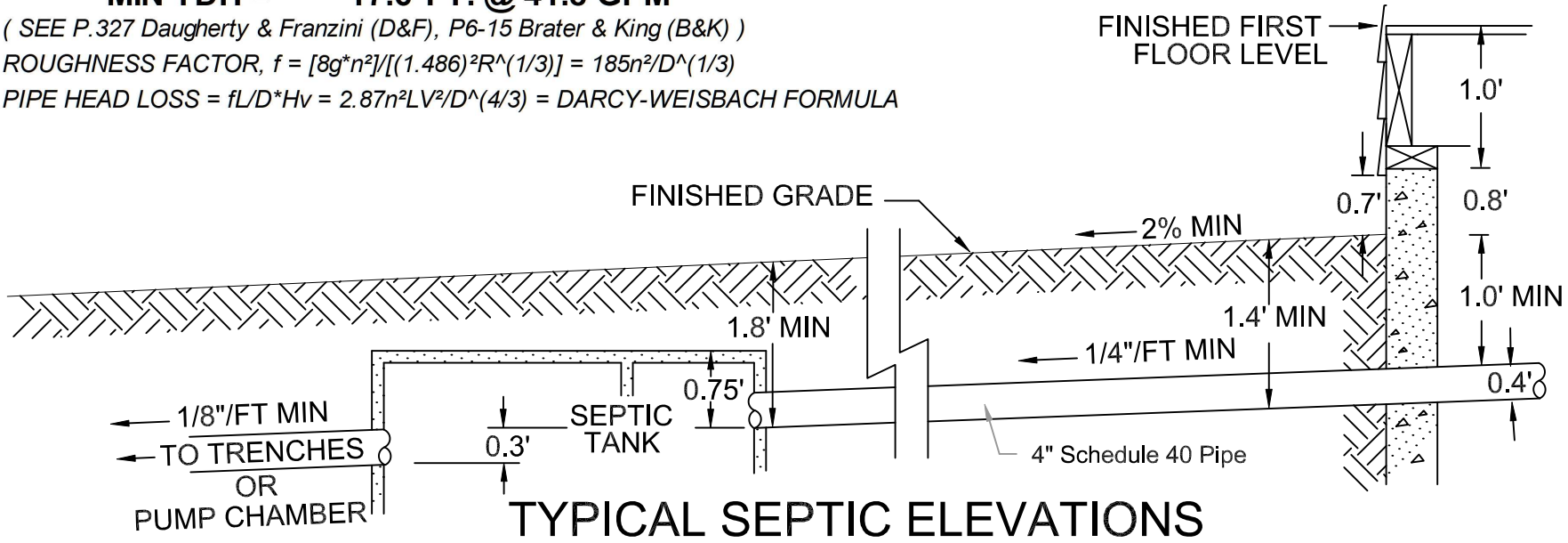
SSD Repair
Sheet 1 of 2

PUMP CALCULATIONS

Selected Pump: GOULD 3885 1/3hp WE03L
High Elevation: 748.30
Low Elevation: 736.50

FORCE MAIN PIPING

Type Pipe: PVC ASTM D 1785 / ASTM D 2665
Mannings n : 0.012
f VALUE = 0.048
K Value Elbow : 0.9 (P.227 D&F)
Number of Bends : 1
Pipe Diameter: 2 Inches
Xsec Area : 3.1 Inches²
or : 0.022 Feet²
Length of Pipe : 68 Feet
Volume in Pipe : 11.1 Gallons
Start GPM : 0 (This is where VBA starts)
Minimum Flow : 15 Gallons per Minute (GPM)
Estimated Flow : 41.805 GPM
Velocity : 4.3 FPS
H_f = 0.28 Feet
Static Head : 11.8 FT. OR 5.2 psi H_{elevation}
Pipe Friction : 5.6 FT. OR 2.5 psi H_{pipe}
Elbow Loss : 0.3 FT. OR 0.2 psi H_{bend}
MIN TDH = 17.6 FT. @ 41.8 GPM
(SEE P.327 Daugherty & Franzini (D&F), P6-15 Brater & King (B&K))
ROUGHNESS FACTOR, f = [89n²] / [(1.486)²R^(1/3)] = 185n²D^(1/3)
PIPE HEAD LOSS = IL/D*Hv = 2.87n²LV/D^(4/3) = DARCY-WEISBACH FORMULA



TYPICAL SEPTIC ELEVATIONS

Not to Scale

Parcel Information

Plan prepared for:	Hillary & GERALYN BECKER
Parcel acreage:	0.67
Map Lot and Block:	59 / 09 /
Project Address:	36 South Shore Road
Town and State:	Salisbury, Connecticut

TEST HOLE INFORMATION

Test holes observed by P.R. Hackett, P.E.

Friday, July 10, 2020

TH 1

0 - 16 Fill f-m u sand
16 - 32 Railroad bed material
32 - 94 Olive-grey compact very fine sandy till
No Ledge, No Water, Mottles at 32"

TH 2

0 - 6 Fill topsoil
6 - 22 Fill f-m u sand
22 - 40 Edge of railroad bed material
40 - 96 Olive-grey m-dense very fine sandy till
No Ledge, No Water, Mottles at 40"

TH 3

0 - 9 Fill
9 - 16 Topsoil
16 - 37 Olive-grey sandy till and marble fragments
37 - 88 Red brown very fine silty sandy loam
No Ledge, No Water, Mottles at 37", Roots 3/8" at

Test holes observed by P.R. Hackett, P.E.

Wednesday, September 7, 2022

TH 4

0 - 8 Topsoil Fill
8 - 46 Light brown sandy Fill
46 - 54 Orig Topsoil
54 - 64 Compact Grey-brown silty-sandy till
54 - 74 Dark-brown silty-sandy till
74 - 90 Old RR bed
No Ledge, No Water, Mottles at 54", 1/4" Roots at

TH 5

Upper Section
0 - 9 Topsoil
9 - 18 Yellow brown very fine silty sandy loam
18 - 85 Med-comp Olive-brown Well-graded fine sandy till
No Ledge, No Water, Mottles at 18", Roots at 20"

TH 5 Lower Section

0 - 10 Topsoil fill
10 - 15 Grey-brown silty-sandy fill
15 - 27 Yellow brown very fine silty sandy loam
No Ledge, No Water, Mottles at 10"

TH 6

Lower Section
0 - 8 Topsoil
8 - 33 Light Brown sandy fill
33 - 37 Original Topsoil
37 - 40 Dull brown silty-sandy loam
40 - 84 Grey-brown well graded sand
No Ledge, No Water, Mottles at 40", Roots at 16"

TH 6 Upper Section

0 - 21 Fill
21 - 25 Original topsoil
25 - 35 Dull brown silty-sandy loam
No Ledge, No Water, Mottles at 35"

TH 7

0 - 6 Topsoil
6 - 21 Olive-grey sandy till and marble fragments
Mottles 21"

FLOAT SWITCH SETTINGS

Measured from the inside bottom of the chamber

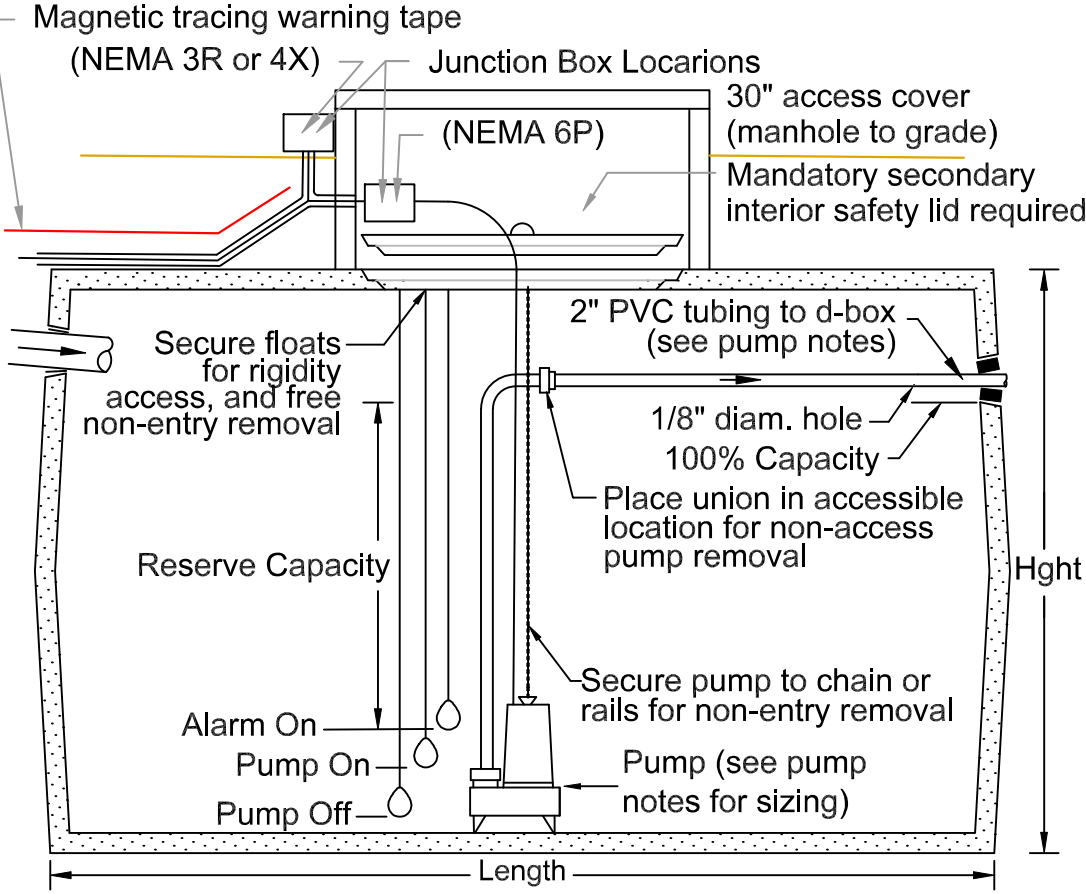
Turn Off: 12.0 inches equals 279.3 Gallons
Minimum Turn On: 14.0 inches equals 325.8 Gallons
Maximum Turn On: 16.0 inches equals 372.4 Gallons
Alarm Height: 20.0 inches equals 465.5 Gallons
Length of Pump Line: 68 Feet
Flow Back: 0.5 inches equals 11.1 Gallons
Lost at Bottom: 12.5 inches or: 290.4 Gallons
Pump Volume Minimum: 46.5 Gallons Actual: 35.5 Gallons
Pump Volume Maximum: 93.1 Gallons Actual: 82.0 Gallons
After Alarm Volume: 628.4 Gallons OK > 525gpd

FLOAT SWITCH SETTINGS

Measured from the outside top of the chamber

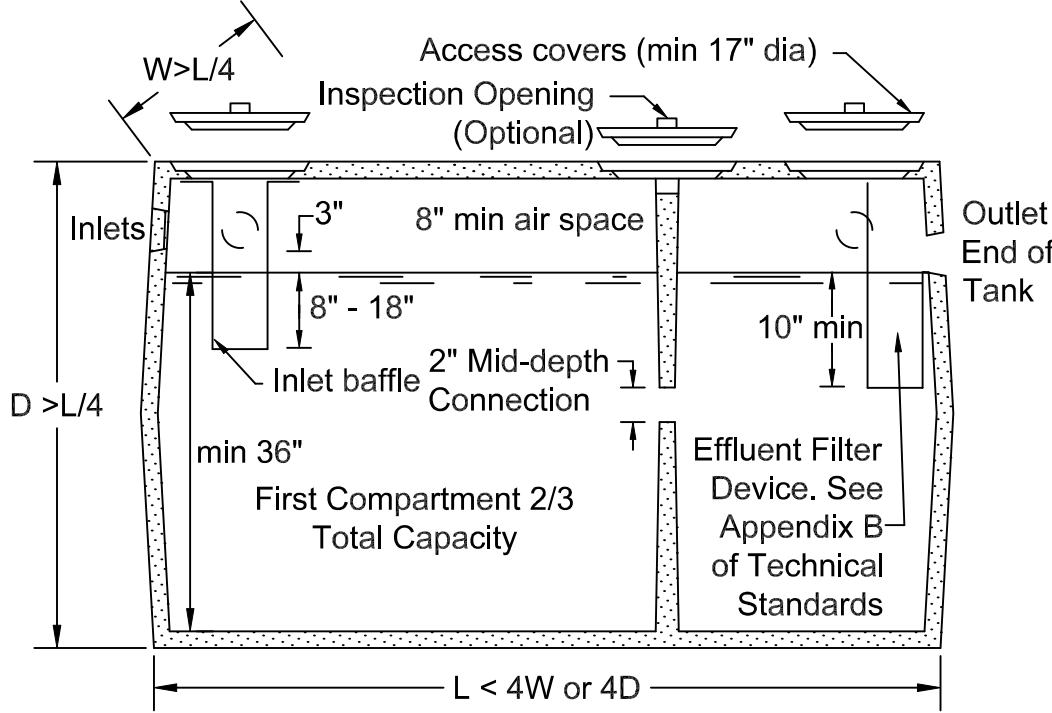
Turn Off: 49.0 inches equals 279.3 Gallons
Minimum Turn On: 47.0 inches equals 325.8 Gallons
Maximum Turn On: 45.0 inches equals 372.4 Gallons
Alarm Height: 41.0 inches equals 465.5 Gallons
Length of Pump Line: 68 Feet
Flow Back: 0.5 inches equals 11.1 Gallons
Lost at Bottom: 12.5 inches or: 290.4 Gallons
Pump Volume Minimum: 46.5 Gallons Actual: 35.5 Gallons
Pump Volume Maximum: 93.1 Gallons Actual: 82.0 Gallons
After Alarm Volume: 628.4 Gallons

FINISHED FIRST FLOOR LEVEL



TYPICAL PUMP CHAMBER DETAIL

Not to Scale



SEPTIC TANK DETAIL

Not to Scale

PERCOLATION TEST INFORMATION

By P.R. Hackett, P.E.

Presoak 2 hr before test

P-D Date: 11/16/2024

Presoak dry before test

Total Depth: 20 inches
Datum Depth: 20 inches

Time	Depth	Perc Rate
0:00:57	6	(min/in)
0:10:49	7 1/4	7.9
0:21:48	8 1/2	8.8
0:32:27	9 5/8	9.5
0:42:30	10 1/2	11.5
0:52:11	11 3/8	11.1
1:02:11	12 1/4	11.4

Max rate = 11.5 minutes per inch

PERCOLATION TEST INFORMATION

By D. Mc Morrow, P.E.

P-BA Date: 11/10/2004

Presoak: 9:20AM

Total Depth: 24 inches
Datum Depth: 24 inches

Time	Depth	Perc Rate
10:30:00	13	(min/in)
10:40:00	13 5/8	16.0
10:50:00	14 3/8	13.3
11:00:00	14 7/8	20.0
11:10:00	15 3/8	20.0
11:20:00	15 3/4	26.7
11:30:00	16 1/8	26.7

Max rate = 26.7 minutes per inch

TEST HOLE INFORMATION

Test holes observed by D. Mc Morrow, P.E.

Wednesday, November 10, 2004

DH# 1

0 - 16 Topsoil
16 - 38 Brown friable sandy loam with some silt
38 - 80 Gray firm sandy loam with some silt
Possible Ledge at 80", Water entering 70", Mottles at 38", Roots to 48"

DH# 2

0 - 8 Topsoil
8 - 20 Olive Friable Sandy Loam
20 - 77 Gray Compact Sandy Loam
No Ledge, Water entering 72", Mottles at 20"

DH# 3

0 - 10 Black Organics
10 - 30 Gray very compact sandy loam
Water entering 10"

TEST HOLE INFORMATION

Test holes observed by P.R. Hackett, P.E.

Wednesday, November 6, 2024

TH 201

0 - 13 Fill
13 - 15 Railroad Cinders
15 - 32 Grey compact sandy till
32 - 64 Olive-grey compact sandy till
No Ledge, No Water, Mottles at 15"
Restrictive at 15"

TH 202

0 - 10 Topsoil
10 - 16 Brown fine sandy loam
16 - 84 Olive-grey compact sandy till
No Ledge, No Water, Mottles at 16"
Restrictive at 16"

TH 203

0 - 10 Topsoil
10 - 18 Brown fine sandy loam
18 - 72 Olive-grey compact sandy till
No Ledge, No Water, Mottles at 18"
Restrictive at 18"

SEPTIC TANK

Make and Model Chamber: Richards ST LB 1250

Full Height: 51 inches
Outlet to bottom: 39 inches
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
Tank Total Height: 51 inches
Tank Bottom Thickness: 3 inches
Tank Top Thickness: 4 inches

SEPTIC TANK - 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: 10,500 Pounds
Depth of Cover over tank: 16 inches
Depth of SHWG : 26 inches
Tank height under water: 41.2 inches
Weight of water tank displaces: 13,577 Pounds
Weight of tank: 10,500 Pounds
Assumed Density of Cover: 110 PCF
Min Depth over tank: 6 inches
Depth Provided: 16 inches

PUMP NOTES

The engineer shall be notified of any changes that deviate from this plan. No different equipment/tanks shall be used from what is listed until the design values have been checked by the engineer and approved.

The pump(s) shall be as selected on the PUMP CALCULATION (PC) table. Minimum capacity shall be 900 gallons per hour at 25 feet of head. Discharge rate for a 2" pump line using the selected pump is at the bottom of the PC table. See Total Dynamic Head graph for the pump on plan. Pumps shall be chained as shown on detail and have a union/quick disconnect for non-access pump removal, or provide slide rail removal system. Provide a secondary interior safety lid on riser.

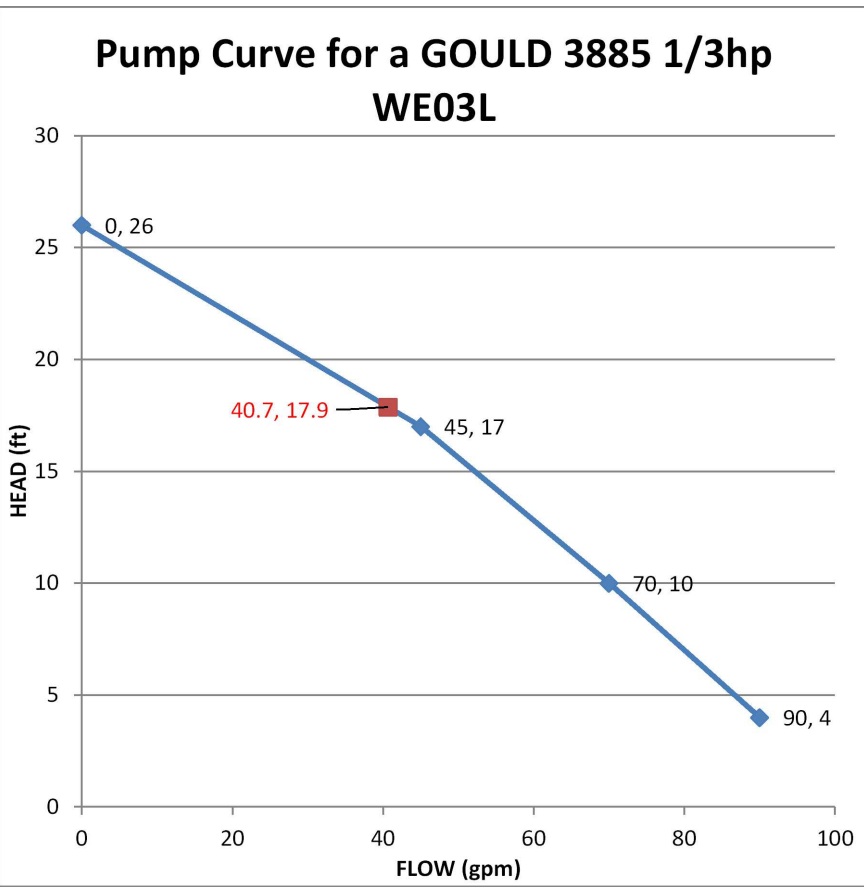
Pump turn-on and turn-off level to be adjusted by the contractor to match the float elevations shown in the FLOAT SWITCH SETTINGS (FSS) table. Pumps shall be wired so the alarm is on a separate circuit. All electrical wiring of the pump station, alarm, and feed, shall meet the National Electrical Code, latest edition. The control panel and alarm shall be located in an audible location.

The utility vault shown is noted in the Pump Chamber Data (PCD) table and must be watertight with joints sealed with asphalt cement or equal. Inside dimensions are as noted on the PCD table. Float level elevations are listed from both the inside bottom and outside top of the chamber and can be found in the Float Switch Settings table. They are based on the spec'd dimensions in the PCD table and must be re-figured for a different tank.

Acceptable pipe for the pump line shall be 2" PVC plastic pressure pipe ASTM D2241, SDR21, SDR 17, or SDR 13.5 or AWWA C-900 (PC 200 PSI min) with bell and spigot with rubber compression gaskets, 2" PVC ASTM D 1785 / ASTM D 2665 Schedule 40 with solvent welded, threaded joints or gasketed couplings, or 2" polyethylene plastic flexible pressure pipe, 200 p.s.i. rated with no joints withing 50' of a well or 50' of an open watercourse or surface water drain.

An 1/8" diameter hole shall be into the discharge pipe facing downward to allow effluent to flow back into the pump chamber when the pump cycle ends.

See Float Switch Settings table for flow back volume to the pump chamber. Flow back is based on the length of pump line and pipe diameter. Float level are set to account for flowback.



PUMP CHAMBER DATA

Make and Model Chamber: Richards PC 1000

Full Height: 64 inches
Outlet to bottom: 50 inches
Inside Available Height: 47 inches
Inside Width: 56 inches
Inside Length: 96 inches
Capacity: 146.2 Cubic Feet Total
1,093.9 Gallons Total
23.3 Gallons per Inch of Depth
Pump Chamber Total Height: 64 inches
Pump Chamber Bottom Thickness: 3 inches
Pump Chamber Top Thickness: 4 inches

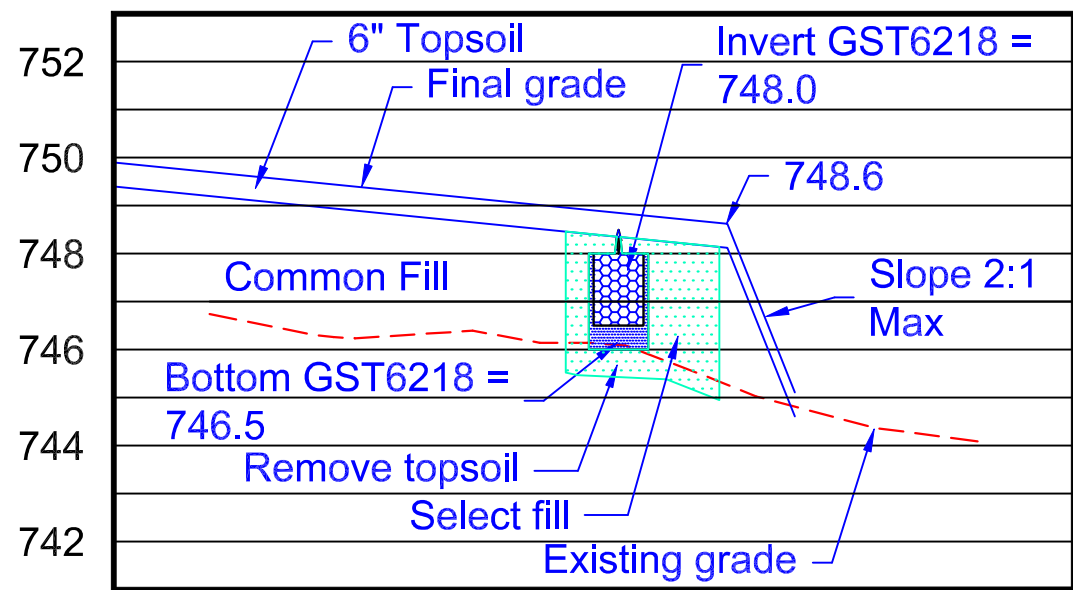
PUMP CHAMBER NEED FOR BALLAST

Make and Model Chamber: Richards PC 1000

Outside Height: 64 inches
Outside Width: 62 inches
Outside Length: 102 inches
Chamber Footprint: 43.9 SF
Actual Chamber Weight: 8,300 Pounds
Depth of Cover over tank: 22 inches
Depth of SHWG : 26 inches
Tank height under water: 60 inches
Weight of Water Tank Displaces: 13,748 Pounds
Assumed Density of Cover: 110 PCF
Min Depth Over Tank: 14 inches
Depth Provided: 22 inches

SSD NOTES

- Parcel information found in the Parcel Information Table
- 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
- The Connecticut Public Health Code - Regulations and Technical Standards for Subsurface Sewage Disposal Systems, January 1, 2023, as amended or corrected, is considered part of this plan. A copy of the 2023 code can be found at: https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/environmental_health/environmental_engineering/2023-uploads/TS-Master-2023-1242023.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.
- It is recommended that the house and septic system be staked out by a qualified engineer or land surveyor.
- The invert of the 4" waste line at the house may be raised but not lowered without the consent of the engineer. A minimum of 12" of cover at this location shall be provided over the top of the pipe.
- 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 minimum 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 sized as noted on the plan. 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 when there is more than 12" of cover. Secondary safety lids shall be placed at any opening where the tank cover is removed (primarily pump chambers but may be septic tank risers).
- 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 not 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 trench leaching pipe shall be level throughout. Maximum allowable deviation shall be no greater than 1 inch vertical in 50 feet horizontal.
- Leaching trench type, size, dimensions, length shall be as noted in the Trench Table. See Basis of Design Table for design flow, and leaching area required and provided. See the MLSS table for minimum leaching system spread required and spread provided.
- Septic fill material shall meet the requirements of Section VIII A, of the Technical Standards, Select Fill Material, or as noted on the plan. Fill material shall extend a minimum of 5 feet beyond all sides and downhill trench perimeter and a minimum of 2' on the uphill side. There shall be no more than 5% by weight of calcium carbonate in any select sand material used.
- 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.
- In the event a heating oil tank is buried outside, it must be a minimum of 75' from any well.



Section AA

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

Engineer:

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

Date: August 12, 2024

Revisions: Nov17/2024- TH & PH

BECKER RESIDENCE
36 SOUTH SHORE ROAD
SALISBURY, CONNECTICUT

SSD Repair
Sheet 2 of 2

SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR