

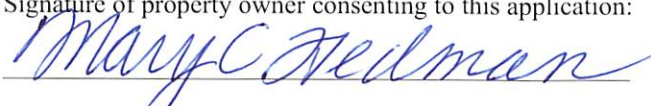


TOWN OF SALISBURY  
CONNECTICUT

P.O. Box 548  
Salisbury, Connecticut 06068

Conservation Commission

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

- 1) Applicants name: **Pat Hackett**
  - 2) Applicants home address: **16 East St Lakeville**
  - 3) Applicants business address: **same**
  - 4) Applicants Home Phone #: **203 788-9959** Business Phone #: **203 788-9959**
  - 5) Owner of property: Name: **Mary Hedman 116 South Shore Road**  
Address: **Salisbury**  
Phone #:
- Signature of property owner consenting to this application:  

- 6) Applicants interest in the land: **Engineer**
  - 7) Geographical location of property: **South of south shore of Lake Washing**  
Description of the land: **Lakefront resident parcel**  
Computation of wetland area or watercourse disturbance: **0.0**
  - 8) Purpose and description of the proposed activity: **Septic Repair**
  - 9) Alternatives considered by applicant: **None**  
Why this proposal to alter wetlands was chosen: **N/A**
  - 10) Site plan showing existing and proposed conditions in relation to wetlands and watercourses:  
(Attach map and plans to application) **See attached**
  - 11) Names and addresses of adjacent property owners:  
North: **Lake**  
South: **Kenneth Page et al Trustees**  
East: **Allan & Donald Disalvo**  
West: **Cameron & Robin McClearn**

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: **See plan**

16) Section 7.6 Requirements, if stipulated by agent **See plan**

17) Filing Fee: As defined in current Regulations **\$150**

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).

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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):



## 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, 3<sup>rd</sup> 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

- DATE ACTION WAS TAKEN: year: \_\_\_\_\_ month: \_\_\_\_\_
- ACTION TAKEN (see instructions - one code only): \_\_\_\_\_
- WAS A PUBLIC HEARING HELD (check one)? yes  no
- 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

- 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)): N/A
- LOCATION (see instructions for information): USGS quad name: BashBish or number: 001  
subregional drainage basin number: 6002
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Mary Hedman
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 116 South Shore Road  
briefly describe the action/project/activity (check and print information): temporary  permanent  description: Septic System Repair
- ACTIVITY PURPOSE CODE (see instructions - one code only): A
- ACTIVITY TYPE CODE(S) (see instructions for codes): 14, 1, 2, 3
- WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):  
wetlands: 0.0 acres open water body: 0.0 acres stream: 0.0 linear feet
- UPLAND AREA ALTERED (must provide acres): 0.136 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0.0 acres

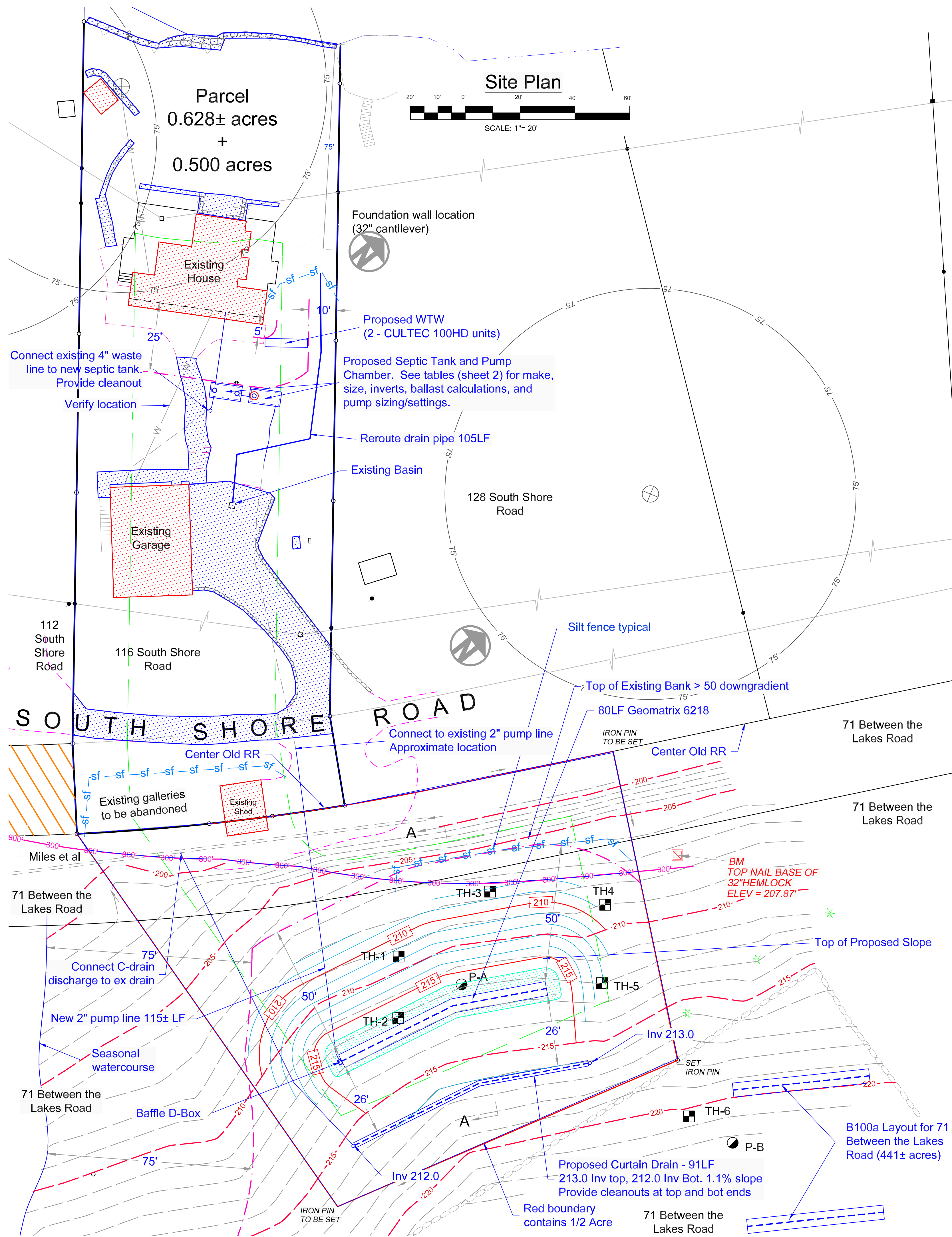
DATE RECEIVED:

### PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

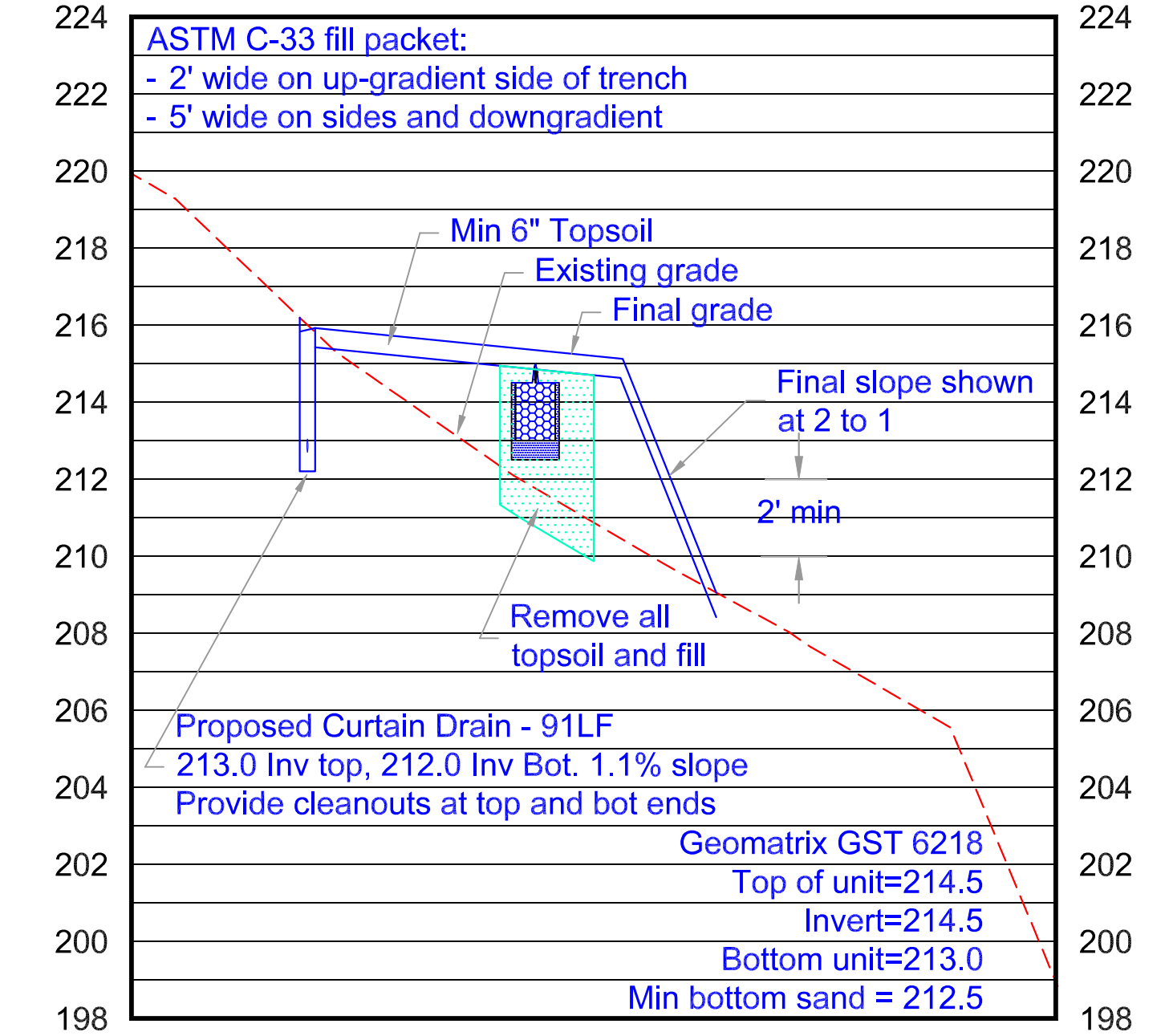
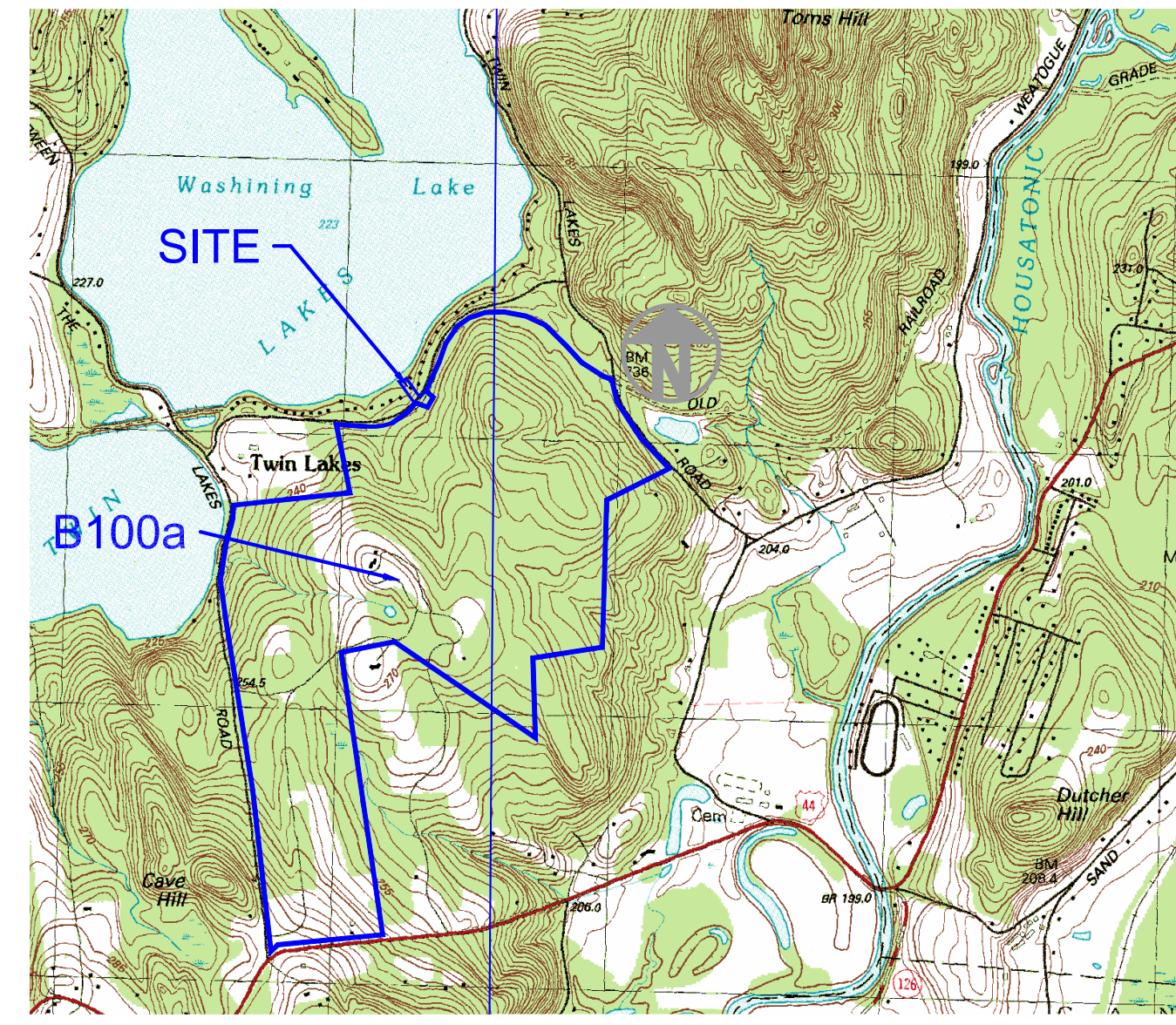
FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



**General Notes**

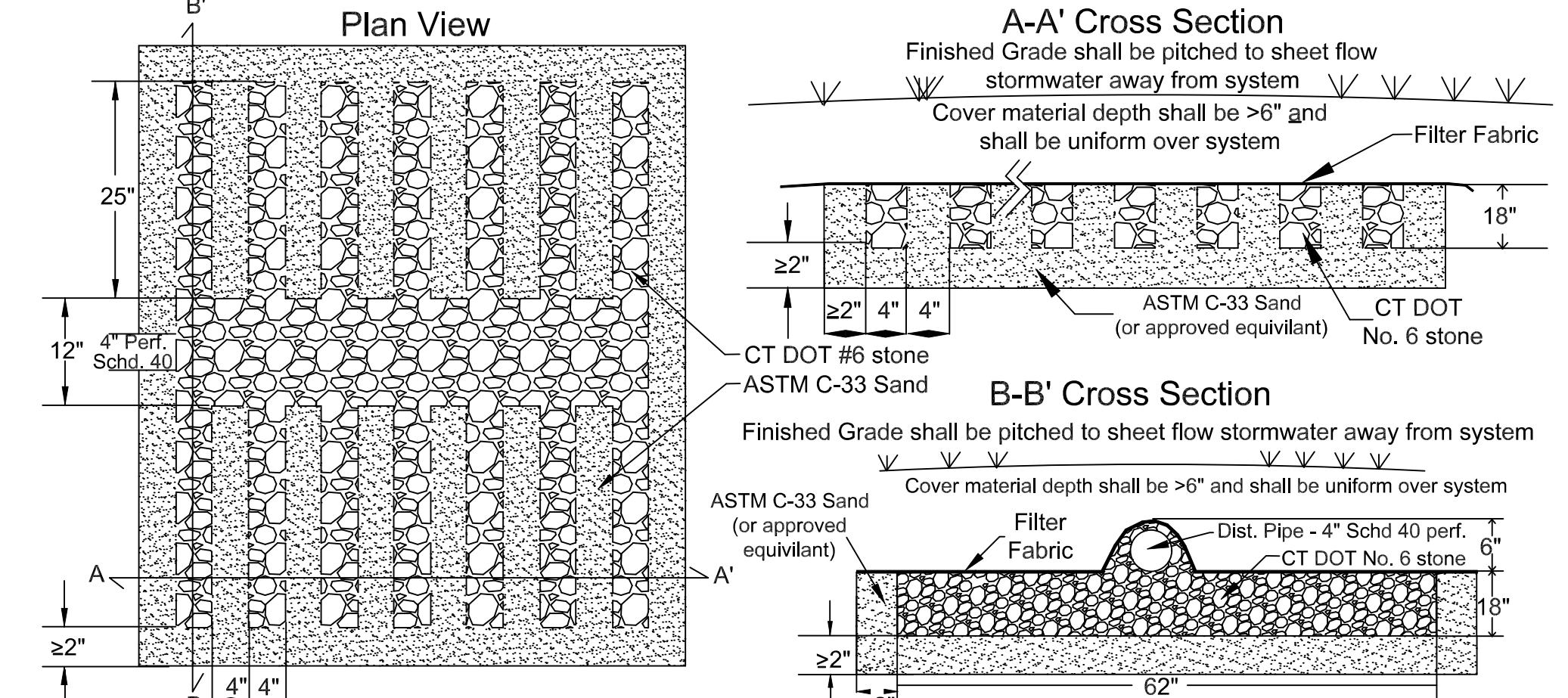
- Owner: Mary Hedman, 116 South Shore Road, Salisbury, M-L 60-10.
- Engineer: Patrick R. Hackett, 16 East Street, Lakeville, Connecticut, (203) 788-9959, prh@prhackett.com
- Parcel Area: 0.628± acres.
- Property boundary from Lamb-Kiefer Land Surveyors
- This design is a compliant repair area.
- The contours of the leaching area are from Lamb-Kiefer Land Surveyors.
- See sheet 2 for erosion & sediment control measures and SSD Notes.
- Select ASTM C-33 fill estimate is 300 tons. Common fill estimate is 450 CY.
- Half-acre parcel south of current parcel shall be conveyed to 116 South Shore Road prior to any construction.
- There are no wells within 75' of the proposed septic system.



**Parcel & Owner Information**

Plan prepared for:	Mary Hedman
Parcel acreage:	0.628
Map Lot and Block:	60-10
Project Address:	116 South Shore Road
Town and State:	Salisbury, Connecticut

**GEOMATRIX GST6218 LEACHING SYSTEM** NOT TO SCALE



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

Date: April 20, 2024  
Revisions: 1 notes May 24, 2024  
2 Notes June 7, 2024

**HEDMAN RESIDENCE**  
**116 SOUTH SHORE ROAD**  
**SALISBURY, CONNECTICUT**  
**SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR**

**SSD**  
1 of 2

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

Basis of SSD Repair

Type of Use: Residential, Multi Family
Number of Bedrooms: 5 (4+1)
Percolation Rate: 15.0 Minutes/Inch
Design Flow: 675 GPD
Minimum Septic Tank Size: 1,375 Gallons
Proposed Septic Tank Size: 1,500 Gallons
Seasonal High Groundwater at: 18 Inches
Design Restrictive Layer at: 18 Inches
Ledge at: N/A Inches
Leaching Area Required: 1,038 Square Feet
Design Leaching Trench: GST 6218
Leaching area per linear foot: 14 SF/LF
or: 74.11 LF Required
Leaching Area Provided: 1,120 Square Feet
or: 80 LF Provided

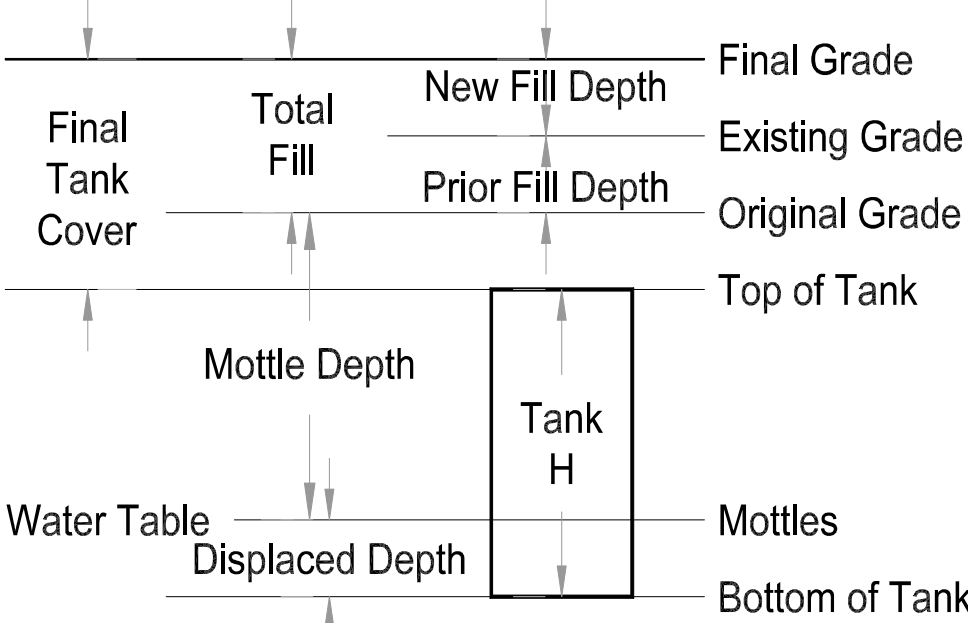
Since this plan is a repair, no reserve area is shown.

Leaching Field Pump Volume Calculation

Type Trench: GST 6218 18 Inch Deep by 62 Wide
Length: 80 LF
Width: 62 Inches
Depth: 18 Inches
Max Allowable Volume per Unit: 6.92 Gallons
Max Allowable per foot: 13.84 GLF
Unit Length: 1.00 Feet
Number of Units: 80
Max Allowable Storage: 553.6 Gallons per Pump Cycle
Available Volume: 1,107 Gallons
Available Volume: 148 CF
Percent Loading: 50% Gallon Total Capacity

MLSS CALCULATION

Type Use: Multi Family
System to be constructed: Yes, Construction to take Place
Perc Rate = 15.0 Min per inch PF = 1.25
Slope of Land = 10.8% FF = 2.5
Restrictive Layer at LS area, A = 18 Inches HF = 24
Restrictive Layer at 25' DG, B = 18 Inches
RS Depth, less fill/2 = (A+B)/2 = 18 Inches
Depth of Fill Provided = 18 Inches
Receiving Soil Depth, RS = 27 Inches
Number of Bedrooms = 5
MLSS Required = PF x FF x HF = 1.25 x 2.5 x 24.0 = 75.0 Feet
MLSS Provided = 80.0 Feet



TEST HOLE INFORMATION

Test holes observed by P.R. Hackett, P.E.
Wednesday, March 13, 2024
TH 1
0 - 12 Topsoil
12 - 18 Yellow-brown fine very sandy loam
18 - 70 Compact olive-brown very fine sandy till
No Ledge, Water entering 40", Mottles at 18", Roots fine at 30"

TH 2
0 - 10 Topsoil
10 - 20 Yellow-brown fine very sandy loam
20 - 72 Compact olive-brown very fine sandy till
No Ledge, Water entering 44", Mottles at 20", Roots fine at 32"

TH 3
0 - 9 Topsoil
9 - 20 Yellow-brown fine very sandy loam
20 - 70 Compact olive-brown very fine sandy till
No Ledge, Water entering 55", Mottles at 20"

TH 4
0 - 10 Topsoil
10 - 18 Yellow-brown fine very sandy loam
18 - 72 Compact olive-brown very fine sandy till
No Ledge, No Water, Mottles at 18"

TH 5
0 - 11 Topsoil
11 - 18 Yellow-brown fine very sandy loam
18 - 70 Compact olive-brown very fine sandy till
No Ledge, Water entering 60", No Mottles, Roots

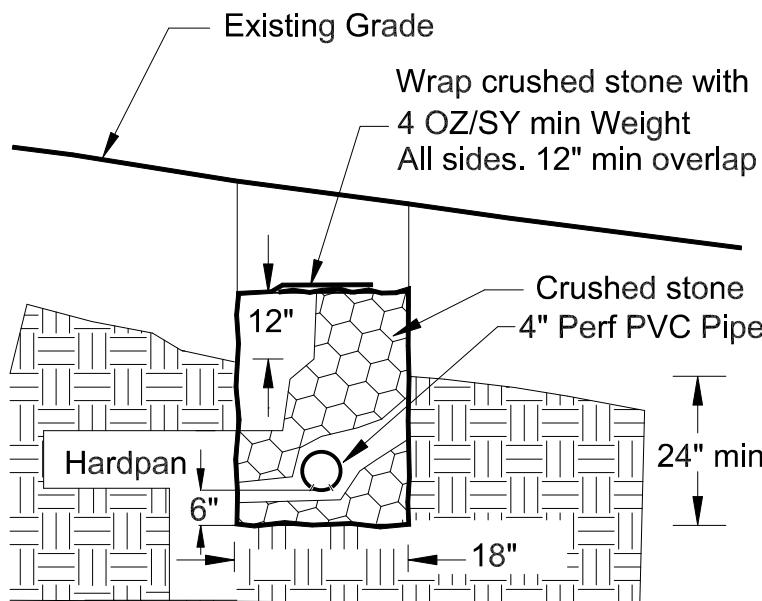
TH 6 Off Parcel - On 400+ acre parcel
0 - 10 Topsoil
10 - 20 Yellow-brown fine very sandy loam
20 - 70 Compact olive-brown very fine sandy till
No Ledge, No Water, Possible Mottles at 53"

Parcel & Owner Information table with fields: Plan prepared for, Parcel acreage, Map Lot and Block, Project Address, Town and State.

PERCOLATION TEST INFORMATION

By P.R. Hackett, P.E.
P-A Date: 03/17/2024
Date: 03/17/2024
Presoak dry before test
Total Depth: 18 inches
Datum Depth: 18 inches
Time Depth Perc Rate (min/in)
0:00:00 9 7.5
0:11:15 10 1/2 7.5
0:20:01 11 3/4 7.0
0:30:28 12 5/8 11.9
0:40:53 13 3/8 13.9
0:50:16 14 15.0
1:00:15 14 1/2 20.0
Max rate = 20.0 minutes per inch

P-B Date: 03/17/2024
Presoak dry before test
Total Depth: 19 inches
Datum Depth: 19 inches
Time Depth Perc Rate (min/in)
0:05:09 7 1.6
0:15:40 13 3/4 1.6
0:25:30 19 1.9
Max rate = 1.9 minutes per inch



CURTAIN DRAIN SECTION Not to Scale

B100a Notes - 71 B/T the Lakes Rd

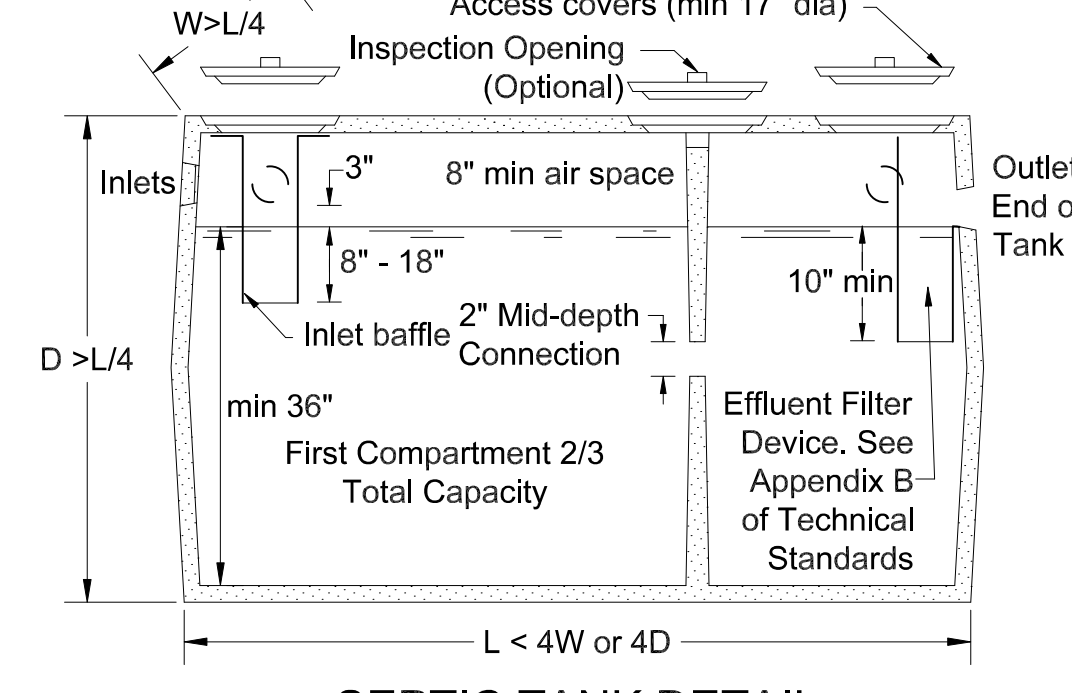
- Owner: Kenneth Page et al Trustees, M-L 20-04.
Engineer: Patrick R. Hackett, 16 East Street, Lakeville, Connecticut, (203) 788-9959, prh@prhackett.com
Parcel Area: 44.1± acres.
The B100a is to demonstrate there is an area for a repair system to be installed.
This design is a compliant repair area.
In the event there is a need to repair/replace a system, a detail design will be required to be submitted to TAHD for permitting.

Basis of B100a - 71 Between the Lakes Road

Type of Use: Residential, Single Family
Number of Bedrooms: 4
Percolation Rate: 15.0 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: 18 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
or: 56.25 LF Required
Leaching Area Provided: 1,400 Square Feet
or: 100 LF Provided

MLSS CALCULATION - 71 Between the Lakes Road

Type Use: Single Family
System to be constructed: No Construction now
Perc Rate = 15.0 Min per inch PF = 1.25
Slope of Land = 10.8% FF = 2
Restrictive Layer at LS area, A = 18 Inches HF = 28
Restrictive Layer at 25' DG, B = 18 Inches
RS Depth, less fill/2 = (A+B)/2 = 18 Inches
Depth of Fill Provided = 18 Inches
Receiving Soil Depth, RS = 18 Inches
Number of Bedrooms = 5
MLSS Required = PF x FF x HF = 1.3 x 2.0 x 28.0 = 70.0 Feet
MLSS Provided = 100.0 Feet



SEPTIC TANK DETAIL Not to Scale

SEPTIC TANK

Make and Model Chamber: Eastern PC ST H-20 1500
Inside Available Height: 58 inches
Inside Width: 54 inches
Inside Length: 126 inches
Capacity: 226.4 Cubic Feet Total
1,693.7 Gallons Total
29.5 Gallons per Inch of Depth
Pump Chamber Total Height: 80 inches
Pump Chamber Bottom Thickness: 6 inches
Pump Chamber Top Thickness: 8 inches

PUMP CHAMBER DATA

Make and Model Chamber: Eastern PC PC H-20 1250
Inside Available Height: 44 inches
Inside Width: 54 inches
Inside Length: 115 inches
Capacity: 158.1 Cubic Feet Total
1,182.9 Gallons Total
26.9 Gallons per Inch of Depth
Pump Chamber Total Height: 68 inches
Pump Chamber Bottom Thickness: 8 inches
Pump Chamber Top Thickness: 8 inches

NEED FOR BALLAST

Make and Model Chamber: Eastern PC ST H-20 1500
Outside Height: 80 inches
Outside Width: 66 inches
Outside Length: 138 inches
Tank footprint: 63.3 SF
Actual tank weight: 23,600 Pounds
Depth of Cover over tank: 37 inches
Depth of SHWG: 24 inches
Tank height under water: 80 inches
Weight of water tank displaces: 26,148 Pounds
Weight of tank: 23,600 Pounds
Assumed Density of Cover: 110 PCF
Min Depth over tank: 5 inches
Depth Provided: 37 inches

PUMP CHAMBER NEED FOR BALLAST

Make and Model Chamber: Eastern PC PC H-20 1250
Outside Height: 68 inches
Outside Width: 66 inches
Outside Length: 127 inches
Chamber Footprint: 58.2 SF
Actual Chamber Weight: 21,800 Pounds
Depth of Cover over tank: 43 inches
Depth of SHWG: 24 inches
Tank height under water: 87 inches
Weight of Water Tank Displaces: 20,582 Pounds
Assumed Density of Cover: 110 PCF
Min Depth Over Tank: No Ballast Required
Depth Provided: 43 inches

Trench Table with columns: Trench Table, Width (in), Depth (in), 4 inch Pipe Invert, Top Stone, Bottom Stone, Min Elev Sand, Min C-C, Length (ft), SF/LF, Prov'd, Req'd.

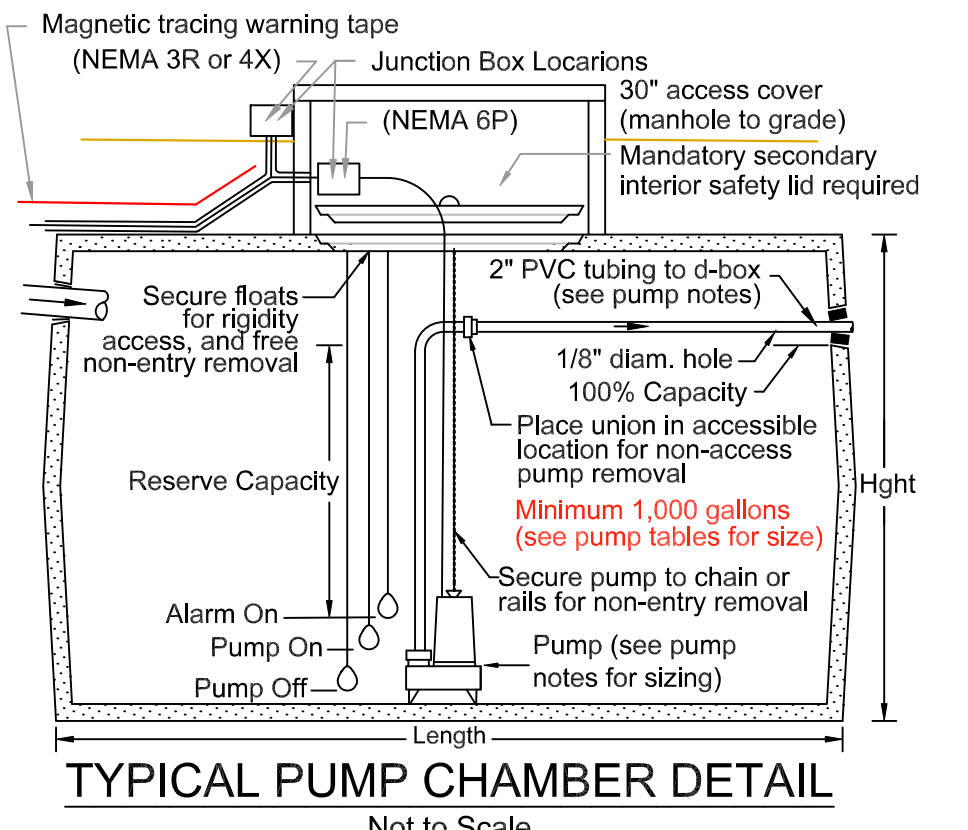
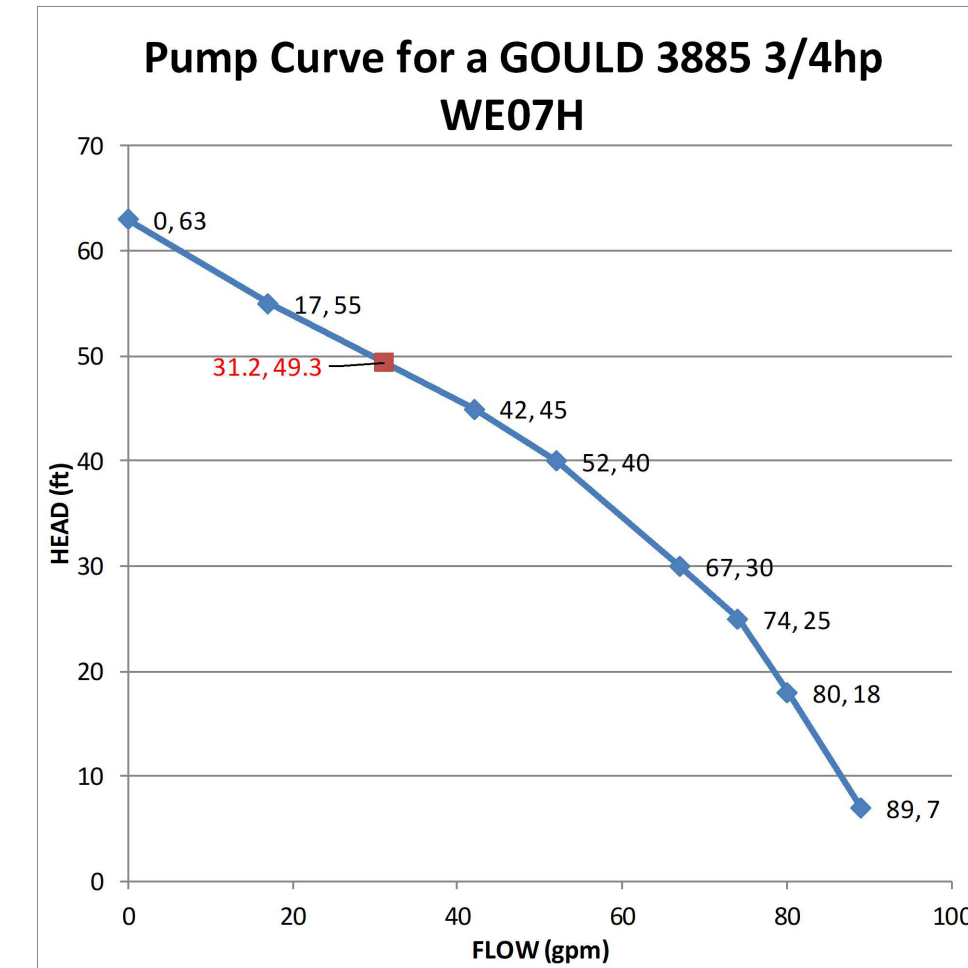
Tables for Pipe Runs (Length, High End, Low End, Proposed Slope) and Elevation Location (Finished floor main house, Grade at foundation, etc).

PUMP CALCULATIONS

Selected Pump: GOULD 3885 3/4hp WE07H
High Elevation: 215.00
Low Elevation: 177.00

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 Inches squared
or: 0.022 Feet squared
Length of Pipe: 245 Feet
Volume in Pipe: 40.0 Gallons
Start GPM: 0 (This is where VBA starts)
Minimum Flow: 15 Gallons per Minute (GPM)
Estimated Flow: 31.175 GPM
Velocity: 3.2 FPS
Hv = 0.16 Feet
Static Head: 38 FT. OR 16.5 p.H.elevation
Pipe Friction: 11.2 FT. OR 4.9 psi H.pipe
Elbow Loss: 0.1 FT. OR 0.1 psi H.bend
MIN TDH = 49.3 FT. @ 31.1 GPM



TYPICAL PUMP CHAMBER DETAIL Not to Scale

FLOAT SWITCH SETTINGS

Table of Float Switch Settings comparing measured from inside bottom and outside top of chamber with turn off, turn on, alarm height, and pump volume.

FLOAT SWITCH SETTINGS

Table of Float Switch Settings for pump line installation, comparing measured from outside top of chamber with turn off, turn on, alarm height, and pump volume.

SSD NOTES

- Owner Information: See table - Sheet 1
The engineer shall be notified of any additions, deletions, and/or changes to this plan.
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.
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.
No kitchen garbage grinder or tub with a capacity over 100 gallons shall be connected to this system.
The contractor shall verify and check elevations PRIOR to actual septic system installation.
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.
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.
The bottom of the trench and leaching pipe shall be level throughout.
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).
Septic fill material shall 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.

PUMP NOTES

The engineer shall be notified of any changes that deviate from this plan.
The pumps shall be as selected on the PUMP CALCULATION table.
Minimum capacity shall be 900 gallons per hour at 25 feet of head.
Discharge rate for a 2 inch pump lines using the selected pump at the bottom of the PC table.
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 and 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 table.
The utility vault used is noted in the Pump Chamber Data (PCD) table and must be watertight with joints sealed with asphalt cement or equal.
Acceptable pipe for the pump line shall be 2 inch 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 inch PVC ASTM D 1785 / ASTM D 2665 Schedule 40 with solvent welded, threaded joints or gasketed couplings, or 2 inch polyethylene plastic flexible pressure pipe, 200 p.s.i. rated with no joints within 50' of a well or 50' of an open watercourse or surface water drain.
An 1/8 inch 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.

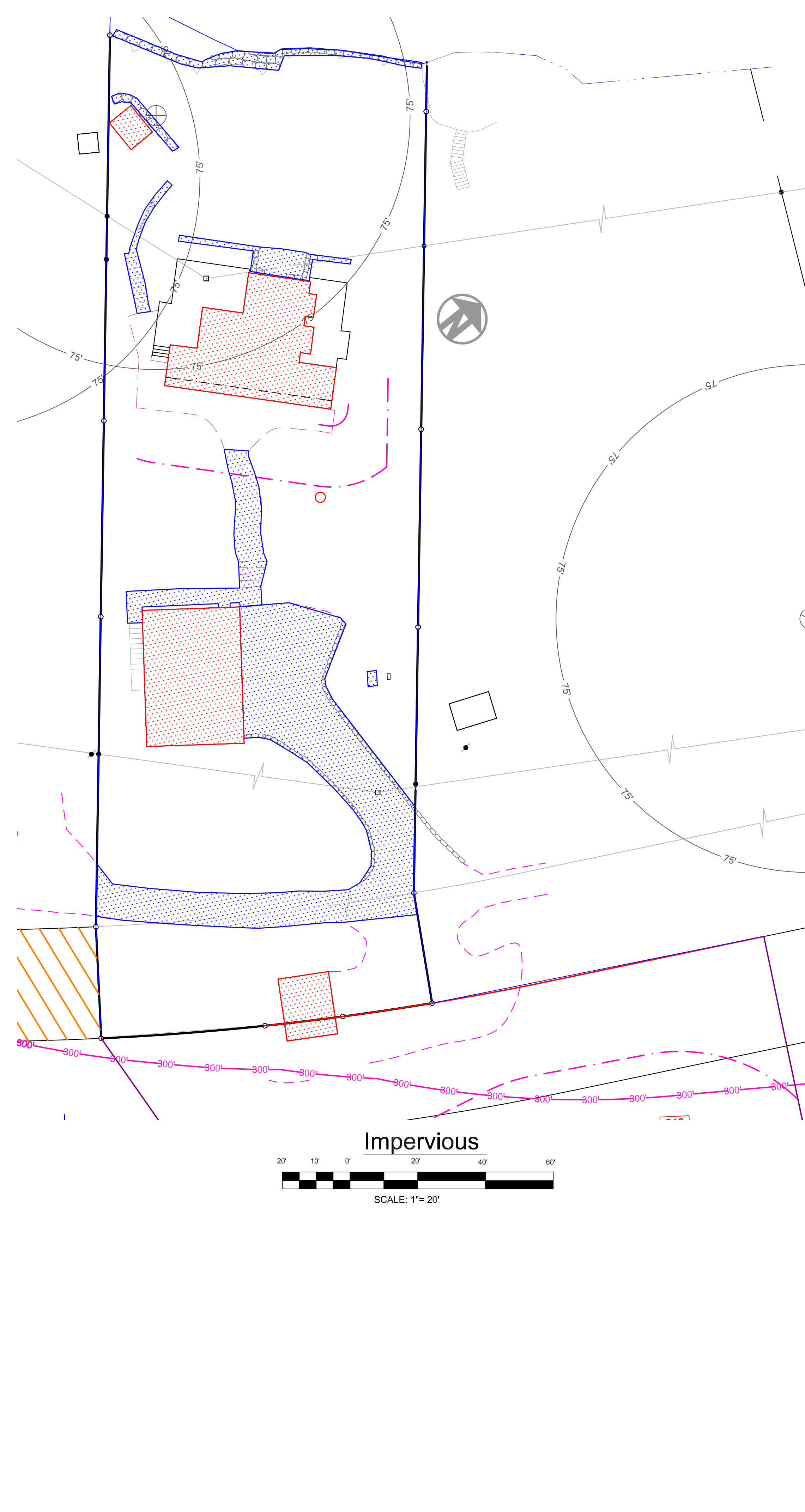
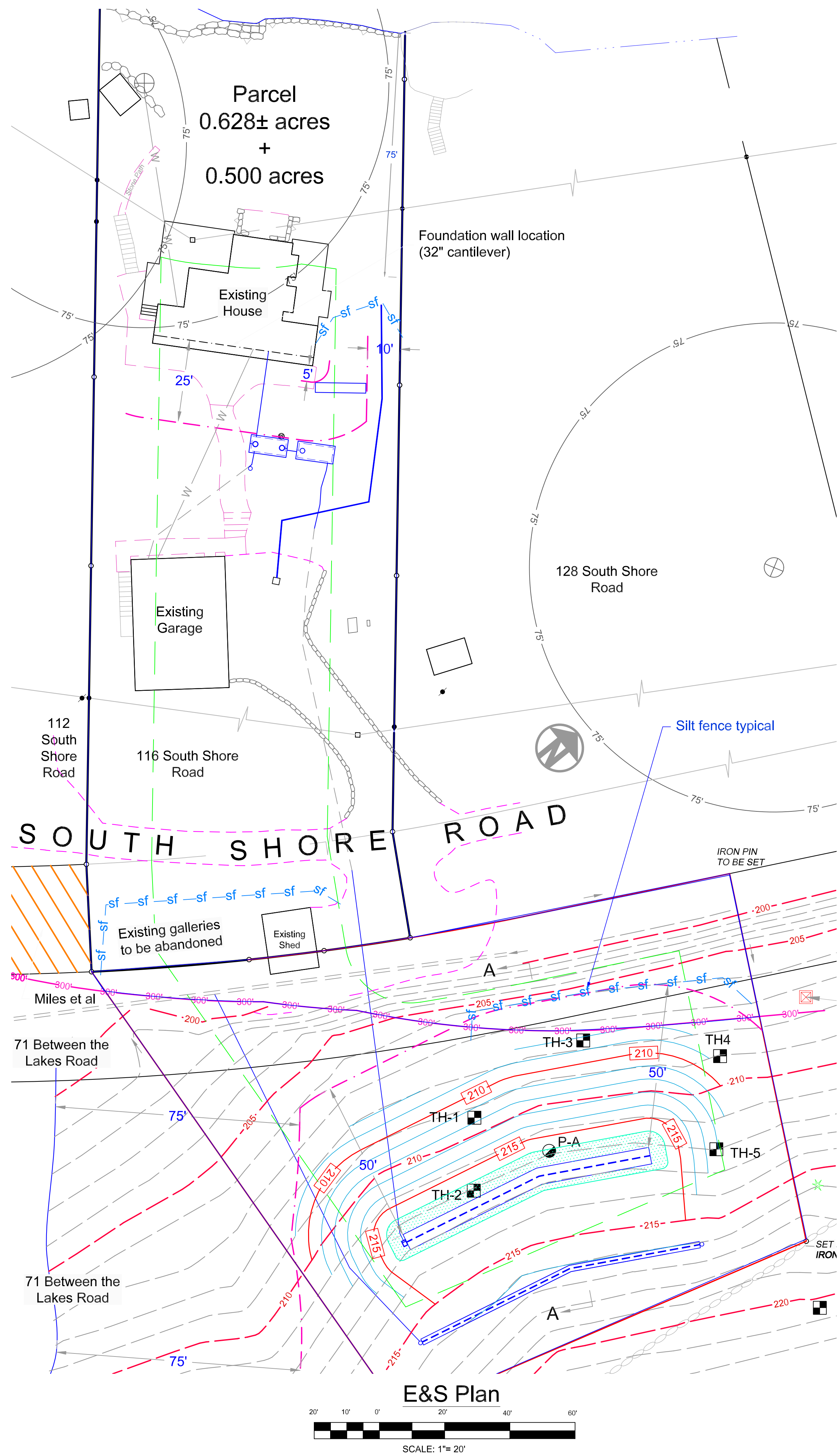
Engineer: Patrick R. Hackett, P.E. 16 East Street Lakeville, Connecticut 06039

Date: April 20, 2024

Revisions: 1 notes 2024-05-24 2 Notes June 7, 2024

HEDMAN RESIDENCE
116 SOUTH SHORE ROAD
SALISBURY, CONNECTICUT
SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR

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



**Original Parcel**

Area: 0.628 acres  
27,356 sf  
Within LPOZ 27,356

**Buildings**  
lower shed 83  
shed 203  
garage 1,159  
House 1,240  
2,685

**Walls, sidewalk, and pavement**

Generator 12  
Driveway & South Shore Road 2,829  
walk & steps 526  
front wall area 190  
lake wall 227  
shed wall 57  
sidewalk 117

3,958  
Total Impervious 6,643  
27,356  
**24.3%**

**Combined New Parcel**

Area: 1.128 acres  
49,136 sf  
Within LPOZ 32,514 sf

**Buildings**  
lower shed 83  
shed 279  
garage 1,159  
House 1,240  
2761

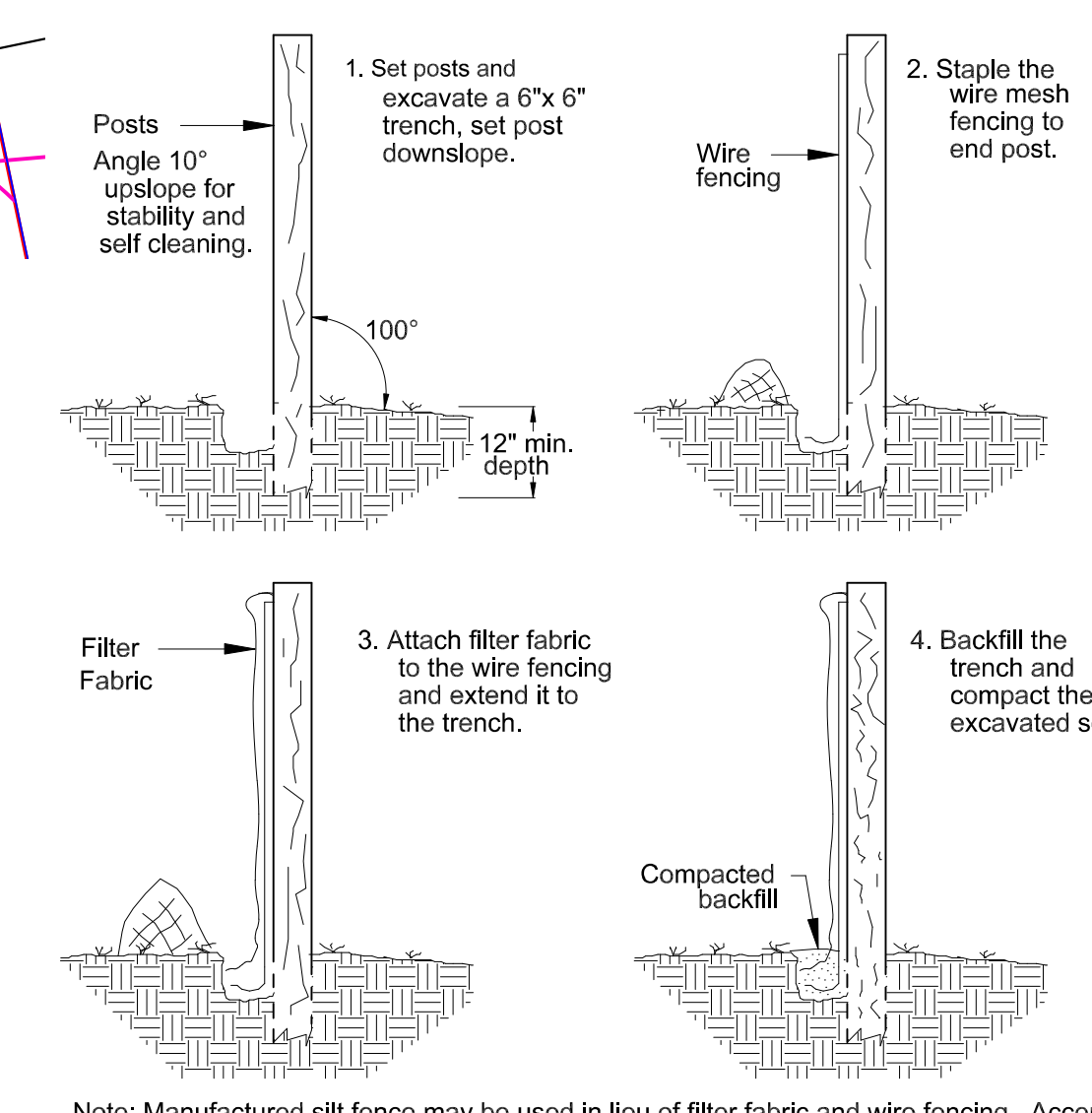
**Walls, sidewalk, and pavement**

Generator 12  
Driveway & South Shore Road 2,829  
walk & steps 526  
front wall area 190  
lake wall 227  
shed wall 57  
sidewalk 117

3,958  
Total Impervious 6,719  
32,514  
**20.7%**

**Notes**

- Owner: Mary Hedman, 116 South Shore Road, Salisbury, M-L 60-10.
- Engineer: Patrick R. Hackett, 16 East Street, Lakeville, Connecticut, (203) 788-9959, prh@prhackett.com
- Parcel Area: 1.128± acres.
- Property boundary from Lamb-Kiefer Land Surveyors
- This design is a compliant repair area.
- There is no additional impervious area proposed
- The addition of the half acre to the south dropped impervious from 24.3% to 20.7%
- No land disturbance is proposed within 75' of the ordinary high water mark line.
- Half acre merged into Parcel on June 10, 2024



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: June 13, 2014

Revisions:

**HEDMAN RESIDENCE  
116 SOUTH SHORE ROAD  
SALISBURY, CONNECTICUT  
STORMWATER AND  
EROSION AND SEDIMENT PLAN**

**SW  
E&S**