

PLEASE NOTE THE FOLLOWING ADDITIONAL REQUIREMENTS:

- (1) I/A Technology Acknowledgement Form is required for any proposed DEP-approved I/A system;
- (2) Conservation Commission approval of the septic design required prior to BOH review;
- (3) A copy of the Trench Permit shall be submitted to the BOH prior to installation.

BOARD OF HEALTH

SHERBORN, MASSACHUSETTS

APPLICATION NO. \_\_\_\_\_

Title V only

**APPLICATION FOR DISPOSAL WORKS CONSTRUCTION PERMIT**

Application Fee: \$750.00 Variance Fee: \_\_\_\_\_ Transfer Fee: \_\_\_\_\_  
Received \_\_\_\_\_ Date \_\_\_\_\_ On Plan Submission \_\_\_\_\_  
Received \$750.00 Date 10/24/23 Additional fee for Re-submittal of Plan \_\_\_\_\_

Application is hereby made for a permit to: (1) *Locate and Construct* ( ☒ ); (2) *Alter* ( ☐ ); (3) *Transfer* ( ☐ );  
(4) *Repair* ( ☐ ) an individual sewage disposal system; (5) *Revise a Previously Approved Plan* ( ☐ ); OR  
(6) *Other* \_\_\_\_\_ as shown on the plans annexed here at:

Address of Property: Street # Greenwood Street (a.k.a 0 Washington St) Lot # Lot 1

Name of Owner: Mary Buntin, Trustee AB Realty Trust Tel # (978) 774-3085  
Owner's address: 7 Saint Joseph St, Hyannis, MA 02601  
Owner's email: mbuntin@me.com

Name of Applicant: Bob Murchison Tel # (617) 308-1961  
Applicant's address: 177 Lake Street, Sherborn, MA 01770  
Applicant's email: bob.murchison@me.com

Type of Building: Single Family Residence No. of Bedrooms: 04

If other than dwelling, estimated flow: \_\_\_\_\_

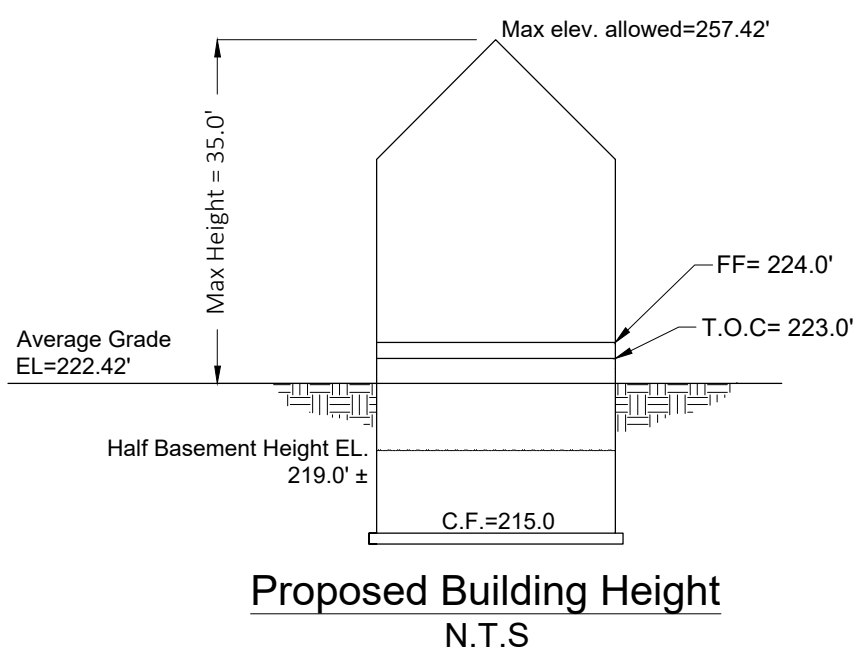
Accompanied by plan dated: 10/18/23 Revised: \_\_\_\_\_

The undersigned acknowledges that he shall, before commencing construction or use of the system that is the subject matter of this application, secure any and all other permits which may be required by the laws of the Town of Sherborn and the Commonwealth of Massachusetts, including, wherever applicable, a building permit, any variances or special permits from the ZBA, any Planning Board approvals, Negative Determination or Order of Conditions from the Conservation Commission, as well as approval from the Board of Health upon completion. It is also acknowledged that the system shall be installed by a person or firm having a permit to install such systems in the Town of Sherborn.

SIGNATURE OF PROPERTY OWNER: [Signature] DATE: 10/24/23

REVIEW NOTES:





Item	RB	Proposed	Waiver Required (Yes, No)
Minimum Lot Area	2 acres	0.92 acres	Yes
Minimum Frontage	200 feet	200 feet	No
Minimum Lot Width	200 feet	212.39 feet	No
Minimum Lot Depth	n/a	n/a	n/a
Minimum Front Setback	60 feet	66.71 feet	No
Minimum Side Setback	40 feet	41.99 feet	No
Minimum Rear Setback	30 feet	76.78 feet	No
Maximum Height (stories)	2.5 stories	2.5 Stories	No
Maximum Height (feet)	35	<35	No
Maximum Lot Coverage	n/a	n/a	n/a

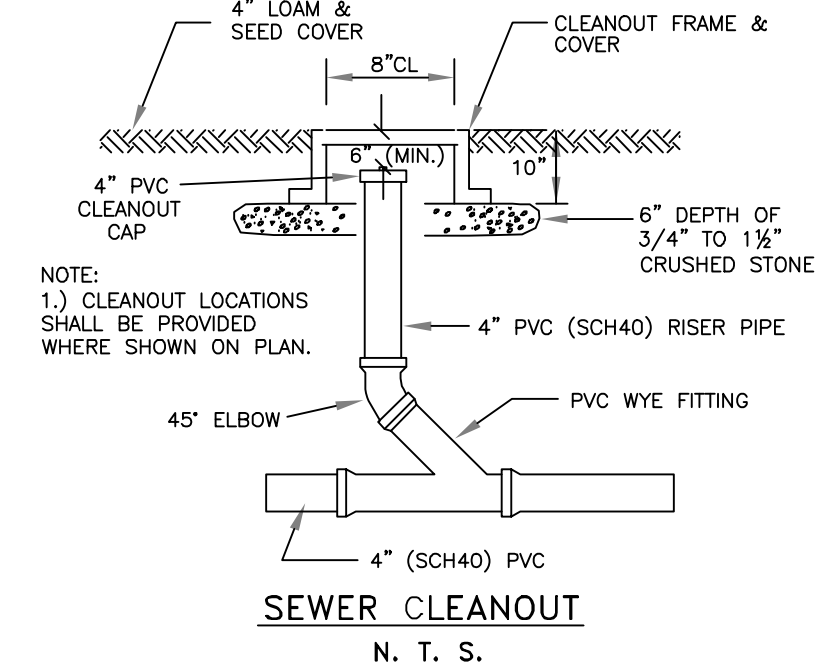
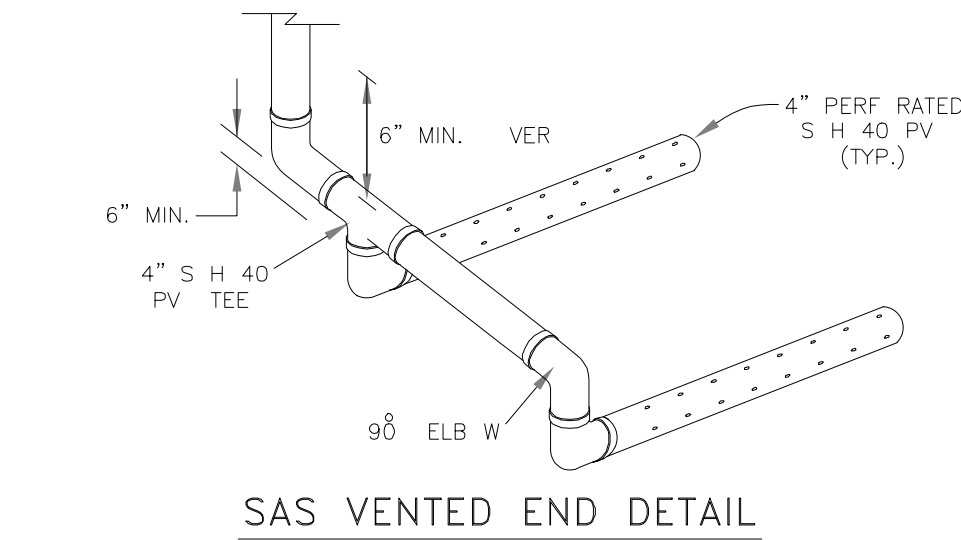
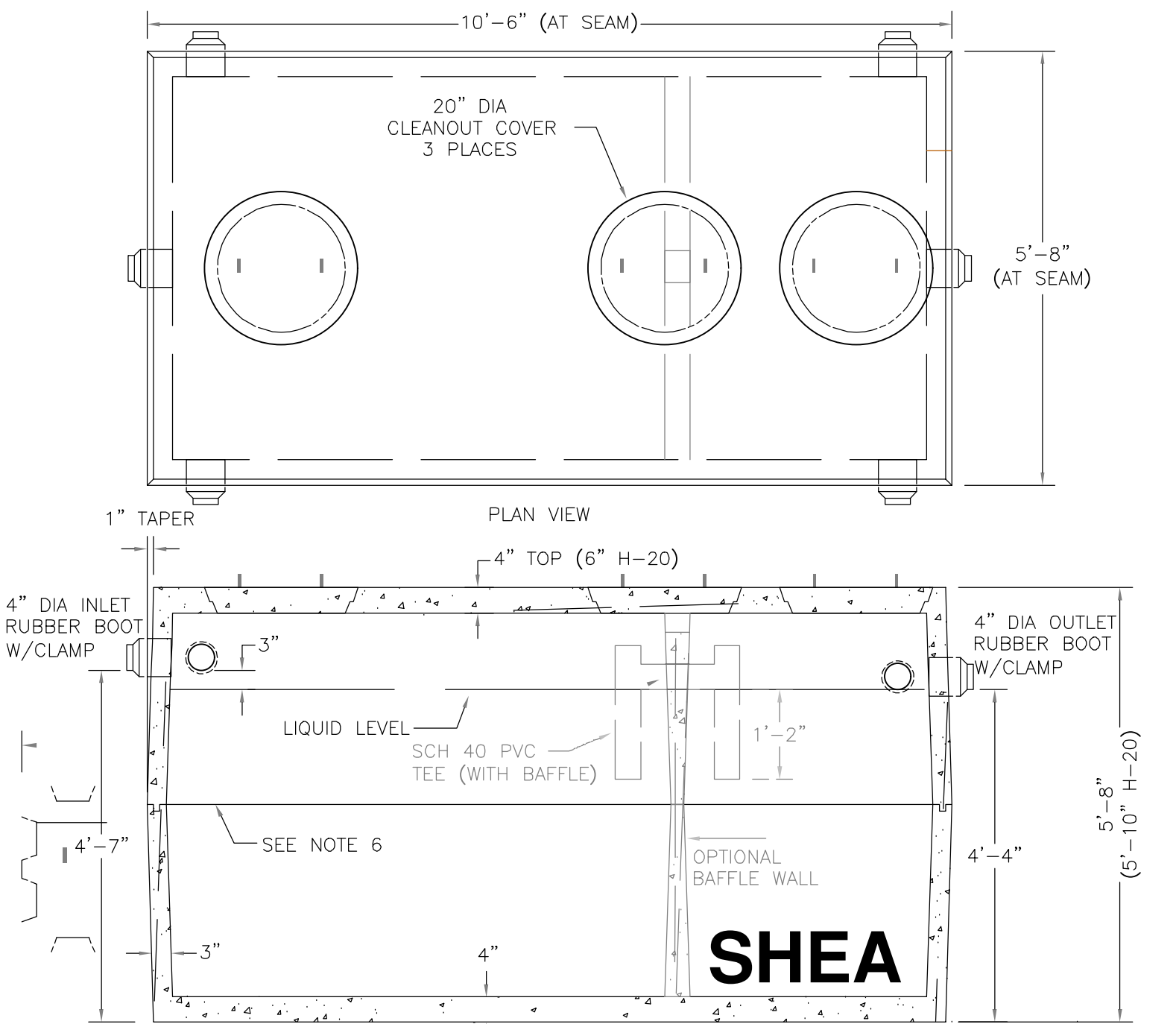
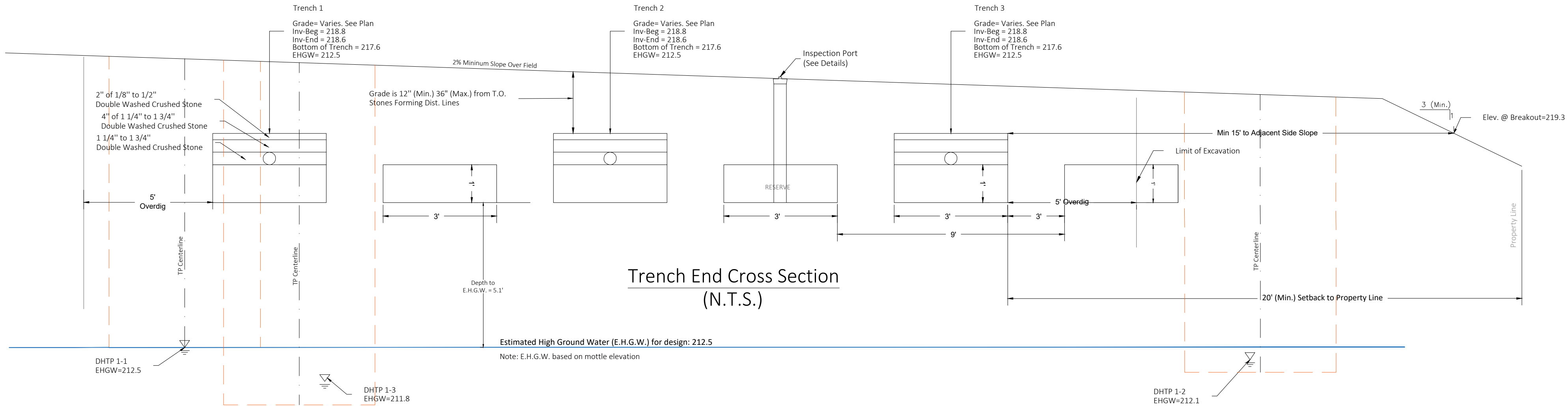
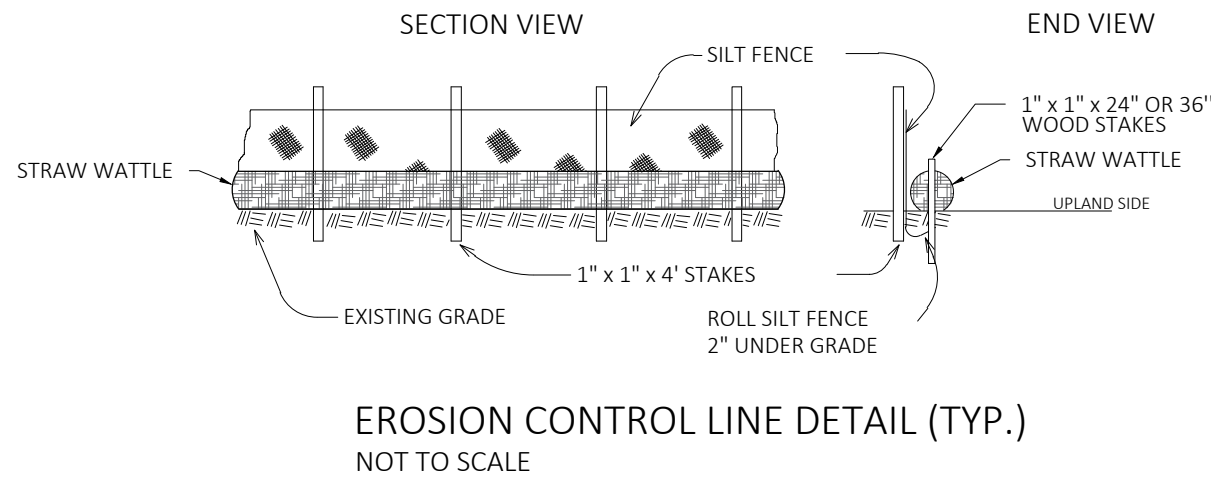
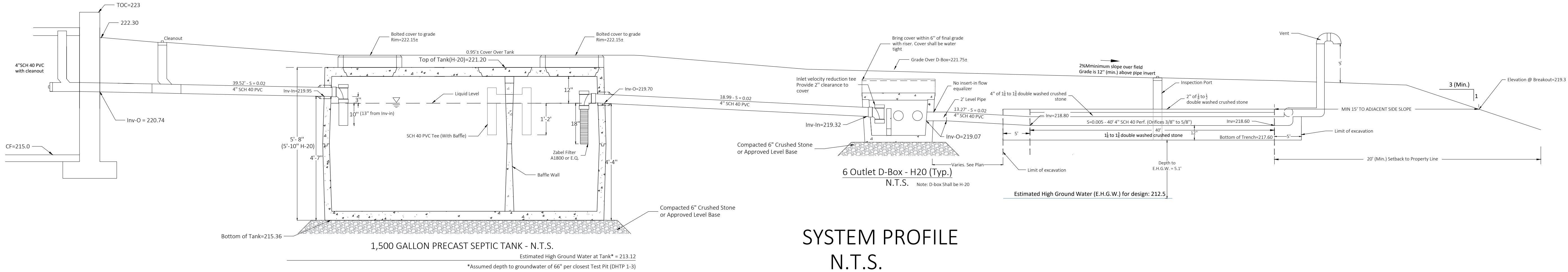
3. This plan is only for a new, 4-bedroom, single family house septic construction and grading purposes. This plan and specifications are intended to be explanatory of the work to be done for review, approval, and field construction. Should any omissions, errors, or discrepancies appear, they shall be subject to correction and interpretation by the design engineer to define and fulfill the intent of the plans according to applicable regulations and engineering principles.
4. To verify that the plans being utilized for construction are current, call 774-454-0266.
5. All erosion control shall be installed according to the plan prior to construction.
6. Prior to execution of construction contract or commencement of construction, all B.O.H. permits and relevant Town Permits must be obtained. This plan must be approved by, and a disposal works construction permit issued by the Sherborn board of health.
7. All materials and workmanship shall be in compliance with title 5 of the state sanitary code.
8. An installer certification is required for the installation of the septic system.
9. NO GARBAGE GRINDER IS ALLOWED FOR THIS DESIGN. PROOF OF DEED RESTRICTION IS REQUIRED BY THE BOARD OF HEALTH PRIOR TO THE RELEASE OF THE APPROVED PLAN.
10. The septic tank shall be inspected annually and pumped as needed and records retained.
11. Prior to construction, property lines and proposed structures shall be field staked by a Professional Land Surveyor.
12. Locations of all existing utilities shown in the drawings are only approximate and there may be existing liens other than those shown on the plan hereon.
13. It shall be the responsibility of the contractor to contact all utility companies for field locations of existing underground pipes, conduits, tanks, structures, etc. Contact DIGSAFE at 1-888-344-7233 or 811.
14. If conditions encountered during construction vary substantially from those shown on this plan, notify CLAWE before proceeding with construction
15. Upon completion of excavation for the leaching facility the board of health and design engineer shall be notified for inspection.
16. All components are not to be backfilled or concealed without inspection by Board of Health and permission obtained by Board of Health.
17. After construction, this system will be inspected by the B.O.H. and by the design engineer. After verification of the construction, the engineer will certify that the system is constructed in significant compliance with the design plan and the terms of the permit prior to the final approval of the B.O.H.
18. The as-built survey and sieve analysis for the imported fill material shall be provided to the Sherborn Board of Health prior to inspection.
19. It is the Contractor's responsibility to notify the design engineer and board of health for all required inspections at least 72 hours in advance.
20. All loam, subsoil and other unsuitable material below the invert elevation of the leaching facility must be removed within 5 feet of the leaching area and replaced with material having a percolation rate of 2 minutes per inch or less in accordance with the 310 CMR 15.255 (3).
21. Limits of excavation of the soil absorption system may be made by mechanical means to assure that the soil at the bottom of the excavation area is not compacted or smeared.
22. Prior to placement of the fill, the bottom surface of the excavation shall be dry and scarified. The fill be stockpiled at the edge of foundation and pushed or cast inward over excavated area. The fill shall not be placed during rain or snow storms. Dewatering is required if fill is to be placed below groundwater.
23. A sieve analysis is to be completed on the "in place" imported fill and shall meet the specifications in accordance with 310 CMR 15.255 (3).
24. The septic tank shall be two compartments with gas baffle and outlet filter sized in accordance with the design flow.
25. Where retaining wall is required, it should be constructed to ASTM standards and 310 CMR 15.255(2).
26. The leaching area and septic tank shall be located to meet all the applied setbacks and groundwater separation in the State Environmental Code 310 CMR15.211.
27. All disturbed areas shall be stabilized with loam and seed.
28. All construction shall follow the design plan, 310 CMR 15.00.
29. The septic tank shall be maintained in accordance with 310 CMR 15.351.
30. Fill material for leaching field fill shall be in compliance with 310 CMR 15.255 (3).
31. Leaching fields and septic system components are not designed to stand construction equipment loading. The contractor and owner shall be responsible for preventing vehicle or heavy loading over the septic system.
32. All system components shall be marked with magnetic tape for future location per 310 CMR 15.221:
  - a) four sides of the SAS and top of the distribution laterals;
  - b) envelope of the septic tank, pumping chamber, and the D-box;
  - c) any I/A components.


1. Based on our record review at Sherborn Board of Health and field investigation, there are no existing wetlands located within 200'-ft of the proposed septic leaching field unless otherwise noted on the plan.
2. The proposed unit will serve a 4-bedroom single family house.
3. The proposed onsite well serving the proposed residential house meet the required setback 100 ft from SAS and 50 ft from septic tank and other setback requirements per 310 CMR15.211 as shown on the plan.
4. The proposed septic soil absorption system (leaching field) for the project is not located within or impacted by any easements, wetlands, vernal pools or flood zones per State Environmental code 310 CMR 15.000 as shown on the plan.
5. The project is located within a nitrogen sensitive area. The parcel is 0.92 AC (40000 Sq.ft) and will accommodate the 4-bedroom design (4400 gallons per day), which meets State Environmental code 310 CMR 15.000 of 4400 gallons per day per acre.
6. There are no bordering vegetated wetlands located within 100' of the proposed SAS as shown on the plan.
7. There are no wetlands bordering surface water supply or tributaries within 200' of the SAS unless otherwise shown on the plan.
8. There is no surface, foundation drain or other forms of open, surface or subsurface drains located within 100 ft of the leaching field for the project that intercept high groundwater table, nor any other forms of drains (open, surface, subsurface) intercept high groundwater.
9. There is no surface water located within 150' of the SAS unless otherwise noted.
10. There are no surface water supplies located within 400' of the proposed SAS unless otherwise shown.
11. There are no Inland banks located within 150' of the proposed SAS.

Site Locus  
1"=300'

<h1 style="margin: 0;">Creative Land &amp; Water Engineering, LLC</h1> <h2 style="margin: 0;">Environmental Scientists and Engineers</h2> <p style="margin: 0;">P.O. Box 584 - Southborough - MA - 01772 774-454-0266      www.claweng.com</p>			
Project Title:		Lot 1 Septic and Well Plan	
Project Name:		Greenwood Street Homes	
Site Address:		0 Washington St (Map 7, Lot 49) - Sherborn, MA	
Owner: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">AB Realty Trust</div>		Client: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Robert Murchison</div>	
Project No: J269-19a	Drawn by: FA	Date: 10/18/23	Sheet No: 1 of 2
Designed by: DSW/WFA	Approved by: DSW	Scale: Indicated	
Rev.:	Date:	Description	By:

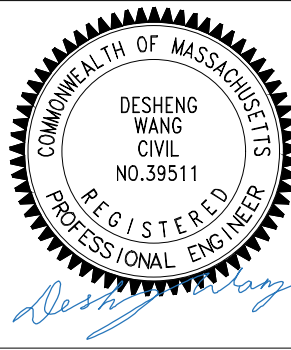




SOIL EXAMINATIONS					
Performed By: Desheng Wang		Date:		12/2/2022 & 12/5/2022	
Witnessed By: Mark Oram					
Test Pit #					
DHTP 1-1 (12/2/2022)		DHTP 1-2 (12/2/2022)		DHTP 1-3 (12/5/2022)	
Surface Elevation (ft)	219.50	Surface Elevation (ft)	219.10	Surface Elevation (ft)	217.30
0"	-	0"	-	0"	-
4" (Elev= 219.17)	(A) S.L. - 10 YR 3/2 Friable	4" (Elev= 218.77)	(A) S.L. - 10 YR 3/2 Friable	4" (Elev= 216.97)	(A) S.L. - 10 YR 3/2 Friable
30" (Elev= 217.0)	(Bw) S.L. - 2.5 Y 6/6 Friable	24" (Elev= 217.1)	(Bw) S.L.-L.S.   2.5 Y 6/6 Friable Mottles 10 YR 6/8 (C)	36" (Elev= 214.3)	(Bw) S.L.-L.S.   10 YR 6/6 Friable. Lrg Bldrs (C)
132" (Elev= 208.5)	(C) S.L. - L.S   2.5 Y 6/4 Fri - Firm	100" (Elev= 210.77)	M.L.S   2.5 Y 5/4 Fri - Firm	106" (Elev= 208.47)	F.M.L.S-S   2.5 Y 6/4 Fri - Firm
132"+ (Elev= 208.5)	Cr	100"+ (Elev=210.77)	Cr	106"+ (Elev= 208.47)	Cr
Percolation Depth (in) = 42"		60"		Deephole Only	
Start/End Pre-Soak = 2:44PM/2:59 PM		4:01PM/4:16PM		-	-
Time at 12" 2:59 PM		4:16 PM		-	-
Time at 11" 3:01 PM		4:17 PM		-	-
Time at 10" 3:05 PM		4:18 PM		-	-
Time at 9" 3:09 PM		4:20 PM		-	-
Time at 8" 3:14 PM		4:22 PM		-	-
Time at 7" 3:19 PM		4:25 PM		-	-
Time at 6" 3:24 AM		4:28 PM		-	-
Time (9"-6") 15 Min		8 Min		-	-
Percolation Rate (MPI) = 5		3		-	-
Depth to E.H.G.W. (in) = 84		84		-	66
Mottles Observed at (in) 84		84		-	66
Weeping (in) None		None		-	None
Standing Water (in) None		None		-	None
Groundwater adjustment (ft)				-	
Adjusted depth to GW (ft):				-	
Est. G.W. Elev., (ft) 212.50		212.10		211.80	
Facility to be Served 4 Bedroom Single family house					
Required Design					
Bedroom #: 4 x 110		gal/brm		440	GPD
Garbage Disposal Provided ___YES _X_ NO					GPD
Total Required Design (GPD)				440	GPD
Grease Trap: Not Required					
90-seat restaurant: 0 X 15		gal/seat			GPD
Grease trap volume:					GPD
Septic tank:					
Two-compartment				1500	GPD
ZABEL Filter A1800 ___X___ YES ___ NO					
Total Required Design (GPD)				1500	GPD
Soil Absorption System (use 1' Deep x 3' Wide trenches)					
Design Percolation Rate 5		MPI		ELR	0.74 gal/sq ft/day
Soil Texture Classification Use Class I Soils					
Min. center to center pipe spacing: 12 ft		use		12 ft	
Trench depth: 12-24 in		use		1 ft	
Trench width: 2-3 ft		use		3 ft	
Min. trench length: 118.92 ft		use		100.00 ft	
Limit of length: 100 ft		use		40.0 ft per line	
Number of lines: 3		use		3	
Design effluent treatment capacity 444		gpd		>440 gpd	OK
Soil Evaluator Certification:					
I certify that on June 8, 1995 I have passed the soil evaluator examination approved by the Department of Environmental Protection and that all soil evaluation and analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. My certificate number is SE2545.					
					

**Creative Land & Water Engineering, LLC**  
Environmental Scientists and Engineers  
P.O. Box 584 - Southborough - MA - 01772  
774-454-0266 www.claweng.com

Plan Title:	Lot 1 Septic and Well Plan		
Project Name:	Greenwood Street Homes		
Site Address:	0 Washington St (Map 7, Lot 49) - Sherborn, MA		
Owner:	AB Realty Trust	Client:	Robert Murchison
Project No:	J269-19a	Drawn by:	FA
Designed by:	DSW/FA	Approved by:	DSW
Date:	10/18/23	Scale:	Indicated
Sheet No:	2 of 2		
Rev.:	Date:	Description	By:







## Board of Health

TOWN HALL • 19 WASHINGTON ST. • SHERBORN, MASSACHUSETTS 01770  
508-651-7852 • FAX 508-651-7868

N/A

### Innovative/Alternative (I/A) Technology ACKNOWLEDGEMENT FORM

This form, signed by both the property owner and the design engineer, is required as part of any new or replacement subsurface sewage disposal system application using any DEP approved I/A Technology (i.e. Geoflow Drip, FAST, Infiltrator trenches, etc.). The use of this form is intended to ensure that the owner is fully aware of all requirements of the I/A technology system designed for the property.

➤ **Operation and Maintenance Agreement / Effluent Testing**

- The owner shall have in place, for the life of the system, a maintenance contract with a Certified Wastewater Operator specifically licensed in Massachusetts.
- Plans for operation and maintenance, monitoring, and testing shall be submitted to the Board of Health (and in some cases to MassDEP) for approval prior to start-up of the system.
- The owner is aware of the required inspection, testing, and maintenance of the system which shall be performed in accordance with the technology approval issued by the MassDEP, and that testing results shall be submitted to the Board of Health.

➤ **Deed Recording**

- Prior to installation of the system, the system owner shall record in the appropriate Registry of Deeds a Notice disclosing both the existence of the alternative septic system on the property and the Department of Environmental Protection's approval of the system. Within 30 days of recording such Notice, the system owner shall submit a certified Registry copy of the Notice bearing the book and page/instrument number and/or document number to the local approving authority (Board of Health) and the Department of Environmental Protection.

➤ **Department of Environmental Protection Approval**

- The owner has been provided with a copy of the MassDEP's approval letter for the I/A Technology for the system.
- The owner is aware that I/A systems require a higher level of maintenance and may be more expensive to maintain than a conventional system.

(1) I certify that I have discussed all requirements of the proposed I/A technology with the property owner(s).

Signature  Date 10/24/23  
Design Engineer

(2) I certify that I have been informed of all requirements of the I/A technology system proposed for my property.

Signature(s)  Date 10/24/23  
Property Owner(s)