



Board of Health

TOWN HALL • 19 WASHINGTON ST. • SHERBORN, MASSACHUSETTS 01770
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March 21, 2024

Owner
AB Realty Trust
Jane Hamrock
Mary Buntin
7 Joseph Street
Hyannis MA 02061

Applicant
Washington Street Sherborn Homes, LLC
177 Lake Street
Sherborn MA 01770

RE: 0 Washington Street (Map 7, Lot 0, Block 49), Letter of Deficiencies for Proposed Subsurface Sewage Disposal System Design Plans

Dear Owner / Applicant

Please be advised that the application and the septic plan for 0 Washington Street, Sherborn MA dated February 9, 2024 and received by our office on February 15, 2024 have been found to be deficient based on the following missing information or other deficiencies:

1. The soil testing for all the deep observation holes and the percolation test are not shown on the plan. Please note that the deep observation holes and percolation tests are to be evenly distributed throughout the entire area of the soil absorption system. According to the present notes in the soil test logs, the soil testing does not cover the entire leaching area and there is ledge near deep observation hole numbered 1. The Health Agent's soil logs are available for the engineer's review.
2. The plans do not label all the abutting properties.
3. The groundwater mounding information has not been provided with the subsurface sewage disposal plans submittal.
4. The Department of Environmental Protection approval letter for the innovative technology (Septi-Tech STARR 9.0) has not been provided with the subsurface sewage disposal submittal. Please refer to the DEP information in the MODIFIED PROVISIONAL USE APPROVAL/RENEWAL, Section IV.
5. The groundwater determination at the septic tanks, the innovative technology tanks and pump chamber has not been provided. The groundwater at these tanks and pump chamber shall be based on deep hole observations witnessed by the Board of Health. If the groundwater determination is being based on existing deep observation holes witnessed by the Board of Health, then this information is to be provided on the plot plans. This requirement is needed to determine buoyancy review and the need to determine groundwater location at the inverts for the pipes entering and exiting the septic tanks and pump chambers.

6. The deep observation hole data noted on the plot plan are not in agreement with the Board of Health logs taken in the field with the soil evaluator; the deep observation holes are to specify the date of these tests. The first deep observation hole numbered one indicated refusal at three feet and was shown as being next to the location on the second deep observation hole, also numbered one. The location of the ledge and extent of the ledge needs to be reviewed to assure there is sufficient permeable soil for the proposed soil absorption area. The deep observation holes both noted as "1" shall be changed to new labels to prevent any confusion. Deep observation hole number two was observed with boulders and stone and this was not noted in the deep observation hole description and that elevation was found at 12 feet, but 14 feet is shown on the plot plan description for this deep observation hole. The soil colors for the A layers in deep observation holes numbered 2 and 5 are different from the logs in the field. The color logged was 2.5 Y 6/
7. A note is to be placed on the plot plans indicating that the lot lines shown are legal boundaries. General Note #1 is to indicate that the boundaries shown on the plot plan are legal boundaries. The plot plan has a note that the property lines are approximate on Sheet 1 of 5
8. The information on the septic tanks is to note that the proposed "Shea Products" are in accordance with Title 5 requirements that require that the septic tanks meet the ASTM Standard C 1227-96.
9. General Note # 7 is to indicate the need to notify the Board of Health. Presently it only states to notify the engineer.
10. The proposed public wells on the plot plans should indicate the information on the determination of the Zone I and Zone II areas shown on the plot plan.
11. The profile on the soil absorption trench shall include: (a) the break out elevations past the 15 feet from the soil absorption area, (b) details on the impermeable barrier and retaining wall including the top and base elevations, and (c) the impermeable barrier. The impermeable barrier and retaining wall are to comply with 310 CMR 15.255.
12. The plot plan does not show the proposed elevations over the soil absorption system. There is to be a minimum 2% slope over the soil absorption area.
13. The existing and proposed elevations to the northeast side of the soil absorption area are not provided. The elevations over the soil absorption area and to the sides to the soil absorption area shall be shown in a cross section profile that is to include the retaining wall and the impermeable barrier.
14. The distribution line is to have a complete detailed profile that shows the entire length of this distribution line. Notes shall include specification of no sags as well as information on the drain back capability and about the needed storage for the drain back in the storage part of the pump chamber.
15. The surface area for drainage off the entryway for the drainage structures at the entryway is to be labelled for the function of this detention or retention area and its distance to the soil absorption area is to be provided on the plot plan. At present, the drainage water is from the entryway drainage structures and the drainage is being disposed into this area.
16. The catch basins at the entry driveway, including the long catch basin that crosses the entire driveway and the two catch basins on the soil absorption area at the entryway, are to be defined to determine if they are closed off or are considered leaching catch basins or dry wells.
17. The distance from the septic tanks to the foundation is to be noted on the plot plan.
18. There should be a note if a basement is part of the dwelling.
19. Note II C 2 on Sheet 2 of 5 is to indicate the removal of the A and B layers. The present note indicates the top soil and fill only.
20. The profile showing the effluent filter is to indicate the riser and secure cover over the effluent filter as shown on Sheet 3 of 5.
21. The limit of excavation is not shown as 5 feet on the entryway side of the soil absorption area.
22. Distances to the proposed public wells and wetlands are not provided.
23. A complete design and specifications are to be provided for the dosing system. The information is to include pump curves and specifications, storage allowance for the flow back drainage, total dynamic head calculated, gallon per minute calculated at the total dynamic head and flow velocity shall be greater than 2-1/2 feet per second. As noted previously, a full profile of the force main is to be provided and is to be designed without any sags and is to be at a depth or insulated to prevent freezing.

NOTES:

- A. The septic plan has not been reviewed and approved by the Conservation Commission.
- B. The well applications and fees have not been received if the wells are to be private wells (see note #10).
- C. Garbage grinder deed recordings are to be completed prior to the septic and well plan being released for construction.
- D. The information for the mounding analysis and nitrogen analysis have not been received.

Other items may be forthcoming pending new information, some of which may result from responses by the Applicant to the Peer Reviewer and the Board of Health.

Sincerely,

Mark Oram, Sherborn Board of Health Agent

Electronically copied to owner and engineer and sent by mail

-Engineer- Joseph A. Losanno, P.E., DGT Associates Surveying and Engineering, 1071 Worcester Road, Framingham, MA 01701

-Tetra Tech Consultants