

PVI Site Design

18 Glendale Road, Norwood, MA - 339.206.1030
Master Planning - Civil Engineering - Land Entitlements

Hingham Planning Board

210 Central Street
Hingham, MA 02043

May 18, 2021

RE: 128 Hersey Street, Site Plan

Dear Planning Board Members,

We are in receipt of the review letter prepared by Amory Engineers, PC dated April 27, 2021. After review of the letter, we have made revisions to the site plans and supporting documents accordingly. Below is a copy of the original comments with our responses in **BOLD** below as applicable. Revised drawings and other supporting information noted below are enclosed with this letter.

Comments:

1. Test Pits are required at the proposed locations of the subsurface infiltration systems to verify soil textural analysis and depth to seasonal high groundwater.

Test pits are scheduled to be performed May 19, 2021. Results will be forwarded to Amory Engineers the same afternoon. In addition, there were soil tests performed in the past in support of a potential septic system by a different engineering firm. Soils were reported suitable for leaching facilities and consistent with the NRCS Soils maps upon which the design is based.

2. The size of the subsurface infiltration system 2 is not modeled correctly. It is modeled as having eight rows of size chamber (total 48) but the plan shows only seven rows of six chambers (total 42).

This has been revised on the plan.

3. The inverts of the roof drain piping should be specified to verify that there will be adequate pitch to convey the roof runoff to the proposed subsurface infiltration systems.

Inverts have been added on the plan, demonstrating a minimum pipe slope of 0.5%.

4. The outlet invert of the header pipe for subsurface infiltration system 1 is listed at El. 66.0 on the Outlet Elevations table on the plan, but it should be at El. 67.5

This has been revised on the plan.

5. A shallow swale or low berm should be provided along the property line of 122 Hersey Street to insure that runoff will flow toward the street and not onto the adjacent property.

A landscape berm has been added along the property line at 122 Hersey St.

6. The applicant's engineer should explain what will be done with the ledge outcroppings because they are correctly modeled as impervious in the existing conditions calculations but they are modeled as pervious lawn in the proposed calculations. The post-development calculations should model them as impervious unless they are proposed to be completely removed.

The applicant intends to removed the ledge to 6" below finish grade in order to provide usable lawn area.

7. A stabilized construction entrance should be shown on the plan.

This has been revised on the plan.

8. The lot area of the subject parcel should be confirmed. It is listed as both 37,629 s.f. and 37,679 s.f. on the Existing Conditions Plan, 37,629 s.f. on the Proposed Sewer Connection plan and 37,680 s.f. on the ANR Plan.

We confirmed with the Land Surveyor that the correct area is 37,680. The lot area will be corrected on the Proposed Sewer Connection Plan.

9. The proposed dwelling and barn gross square footages should be corrected on the Zoning Table on the Proposed Sewer Connection Plan.

This has been corrected on the plan.

10. We note that there are proposed retaining walls at the rear of the property and a portion of one of the walls will be greater than four feet in height, which will require a building permit and engineered design.

The intent is for the wall not to exceed four feet in height. Spot grades have been revised, and additional notation added to clarify this.

11. There is an existing shallow well shown on the plan with a note stating that it is decommissioned and not in use. Documentation should be provided to verify that the well has been decommissioned in accordance with MassDEP and Board of Health requirements.

The applicant has reported to PVI that the well as filled in approximate 40 years ago, and was a shallow well with no piped connections, however the raised stone ring has remained. We do not expect the well to have any records of being active.

We trust that the responses provided and attached revised documents adequately address the comments. If you need any additional information, please feel free to contact our office.

Thank you.

PVI Site Design, LLC



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Copy: Juliet Fulgoini
Enclosures: Revised Proposed Sewer Connection Plan