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John B. Paulson, P.L.S. President

October 31, 2019

Town of West Newbury, Board of Health
381 Main Street
West Newbury, MA 01985

Re: Existing Septic System Allowed as 4 Bedroom
Site: 743 Main Street
Owner: Guy Lopes

Attn: Paul Sevigny, Health Agent

Atlantic Engineering is providing survey and support services for our client, Mr. Lopes at the above location. He is in the process of planning significant improvements to the dwelling on the property. The current septic system was approved as a 3 bedroom system in 2003. My client now wishes to make the house a 4 bedroom dwelling while using the existing septic system. The following will provide a basis for allowing this request.

Existing System Design

Existing Design by: Professional Land Services. L.C. , April 2003

System Design Regulations: Those in effect March 25, 2003

Soil Testing: Performed under the current Title 5 Regulations

System Sizing Details:

1. Local design requirement was 150 gpd/bedroom x 3 bedrooms = 450 gallons per day
2. Loading rate for a 16 min./inch perc = 0.53 gpd/s.f.
3. Leach field size required by calculations - 850 s.f.
4. Leach field size required by local code - 1000 s.f.
5. System was designed with a 100% reserve area.

Justification for 4 Bedroom Design Approval

Current Design Regulations: Those in effect June 28, 2011

System Sizing: Per Title 5 (State Code) - 110 gpd/bedroom x 4 bedrooms=440 gallons per day

Loading rate is the same at 0.53 gpd/s.f.

Leach field sizing per Title 5 = 440 divided by 0.53 = 830 s.f. required

The existing system meets all of the requirements for new construction if it was designed today. In fact the system could be made 170 square feet smaller than the current 1000 square feet installed. We therefore request that the record septic system be considered to be used and approved as a 4 bedroom septic system.

Please feel free to contact me with any questions. Thank you in advance for your time and attention to this matter. For your information I have included the current mailing address of the property owner.

Sincerely,

John B. Paulson, President