

Malcolm Ragan

From: Susan Carter <scarter@placesassociates.com>
Sent: Friday, September 17, 2021 2:41 PM
To: Jesse Steadman
Cc: Malcolm Ragan
Subject: RE: 137 Harvard Road Contours and Development Impact Statements

Jesse-

I reviewed the information submitted by Rich regarding the peak rates of runoff off the site. Runoff is a function of the surface cover, soils and Time of Concentration (time for a drop of water to flow to the road from the most remote point). Rich is correct that the Curve Numbers (based on soils and vegetation type) CN are very similar when comparing woods to brush/weeds.

However, there can be an impact on the time of concentration with a change in surface cover or any changes to the grading and route the runoff takes. (the longer the Tc , the lower the runoff rate). From the very limited plans submitted, I cannot tell if the Tc or flow paths may have changed. The topography plan submitted does not appear to show the property lines. It is also unclear as to whether any of the grades have changed as these plans only show current conditions.

The trenching of the gas line may act as an interceptor drain (intercepting the groundwater flow) but that is also hard to access after the work is completed. So, as far as attributing the runoff issues and puddles to these lots, there is not enough information to say either way.

As far as to whether this changes my thoughts on how to control this runoff, it does not. The runoff onto Harvard Road should be controlled and conveyed to make the road safer and also to control runoff onto abutting properties. Whether the cause of the increased problems are the work done on Lot 3 and 137 Harvard Road or unusual rainfall this summer or climate change, it should still be addressed.

Sorry I cannot be more definitive in my answer.

Sue

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From: Jesse Steadman <planning@stow-ma.gov>
Sent: Wednesday, September 15, 2021 10:26 AM
To: Susan Carter <scarter@placesassociates.com>
Cc: Malcolm Ragan <planning2@stow-ma.gov>
Subject: 137 Harvard Road Contours and Development Impact Statements

Hi Sue,

I wanted to forward you the submissions from Rich Harrington regarding the 137 Harvard Road Erosion Control Special Permit. The Development Impact Statement forms show the change in ground cover type and toward the end, number 42 and 43 in each document explains the rationale for finding no increase in the rate and volume of runoff.

Additionally, Rich Harrington provided 2 foot contour plans, also attached. Are you able to review these documents and provide some indication for the Board on how they square with your July 26th thoughts?

Any insight is helpful to assist the Board in closing this permit out.

Thank you and happy to further discuss.

Jesse Steadman
Town Planner | Town of Stow

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