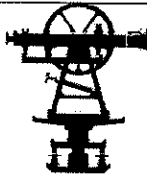


# NORWAY PLAINS ASSOCIATES, INC.

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August 10, 2017

Sara Nadeau  
Carriage Hill Assisted Living  
306 Knox Marsh Road  
Madbury, NH 03823

**Re: Additional Paving; 306 Knox Marsh Road / NH Route 155, Madbury NH; Tax Map 9, Lot 8 & 8A.**

Dear Sara:

Pursuant your request, I have reviewed the proposed site plans and drainage design that was approved by the Town of Madbury Planning Board. The purpose of this review was to determine if there would be any impact to the site as the result of paving the gravel driveway around the facility. Based on the sketch you provided, the limit of the paving would correspond with the areas denoted as gravel.

The result of my review of the approved documents determined that paving the gravel area would not have any significant impacts as the result of the runoff. The previous engineers who designed the site anticipated the potential need to pave the gravel surfaces. As such, they modelled the stormwater runoff from all the gravel surfaces, as if it was pavement in the post development drainage analysis. Therefore, there would be no increase in the stormwater runoff resulting in the change in surface material.

As is with the existing paved driveway, close observation should continue to determine if any erosion is occurring along the edge of the pavement. The transition from pavement to grass can often be a weak zone, thus you may need to reapply loam and seed the areas if any wash-outs start.

I trust this letter addresses the Planning Boards questions and concerns with regards to paving the gravel driveway. If you need anything else or if you have any concerns or comments, please don't hesitate to contact me.

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By: \_\_\_\_\_  
Scott A. Lawler, PE, Project Engineer

