



Civil Engineers • Land Use Planners

August 4, 2015

Attn: Alex Weinhagen  
Town of Hinesburg  
10632 Route 116  
Hinesburg, VT 05461

**Subject: Hinesburg Center - Phase II Fill Placement  
Farmall Drive, Hinesburg, Vermont**

File: 2007039.1

Dear Alex:

The purpose of this letter is to address the subject of placement of fill at the proposed Hinesburg Center Phase II project off Farmall Drive. There are essentially two issues of concern regarding the proposed fill: placement of the existing fill currently stockpiled at the site and placement of new offsite fill for construction of the proposed roads, sidewalks, driveways and building structures.

*1) Placement of the existing fill stockpiles*

The existing fill stockpiles on site consist of topsoil and miscellaneous fill. This material does not likely meet the required specifications for placement as structural fill, thus it will not be utilized under any of the roads, buildings, sidewalks or driveways. It will be placed in non-structural areas only, such as the community green, and compacted in lifts.

*2) Placement of new offsite fill for construction of proposed roads, sidewalks, driveways and buildings*

Fill brought to the site for use under proposed roads, driveways, parking areas and sidewalks will be required to meet VTrans specifications for structural fill and road subbase of gravel or dense graded crushed stone. The project specifications will require compaction in lifts, to 95% of modified Proctor maximum dry density, and will require testing of each lift of fill to ensure that the specified level of compaction is attained. Prior to placement of structural fill in these areas, the existing topsoil and any vegetation will be excavated. The topsoil will be stockpiled for reuse in non-structural areas at the site or removed from the site.

Building footings are not anticipated to be constructed on fill. Existing topsoil and, as necessary, native subsoil will be excavated to a proper depth to provide frost protection. Footings are typically placed directly on native undisturbed earth, unless otherwise instructed by the building's structural or geotechnical engineer. Similar to structural areas beneath the proposed roads, driveways, parking areas and sidewalks, foundation backfill and granular material placed beneath building floor slabs will be required to meet VTrans specifications for structural fill, and will be placed in lifts, compacted to 95% of modified Proctor maximum dry density, with each lift field tested for quality control.

2007039.1  
Hinesburg Center Phase II  
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The applicant understands the importance of using proper granular fill materials in structural areas, and that the existing fill stockpiles may only be placed in green areas. If there is any surplus topsoil or miscellaneous fill it will be removed from the site.

Sincerely,  
**Ruggiano Engineering, Inc.**

A handwritten signature in blue ink, appearing to read 'Clifford R. Collins, Jr.', is written over a light blue rectangular background.

Clifford R. Collins, Jr., P.E.

CC: Brett Grabowski

Re