



April 3, 2019

Richard Harris, Director  
South Hadley Planning and Conservation  
116 Main Street, Room 204  
South Hadley, MA 01075

RE: **Site Plan Review – Response to Fuss & O’Neill Comments**  
**Center for Human Development – Proposed Facility**  
**51 Old Lyman Road, South Hadley, MA 01075**

Dear Mr. Harris,

This letter is being provided in response to Site Plan Review comments made by Fuss & O’Neill on April 1, 2019 for the above referenced project. The comments and responses are shown below. Please note that the original Fuss & O’Neill comments are in standard font. Associated Builders first response is in italics. The second set of comments and responses are in bold font and bold italics for Fuss and O’Neill and Associated Builders respectively.

1. Per Section 16-1.1, B3 of the Stormwater Management Bylaw, the stormwater management system shall minimize the volume and rate of stormwater which is discharged. The applicant has provided documentation demonstrating that there will be a slight increase in volume and peak rates of for the 10-year and 100-year storm event. This increase is minimal and should not impact the downstream areas. It’s at the discretion of the Planning Board to allow the small increase. However, peak flows may need to be reevaluated because revisions that may be required due to review comments.

*Revised calculations have been attached. The minimal increase in flow has further been reduced by elimination of the sidewalk. We also discussed the option of reducing the driveway width with the Fire Department to further mitigate the increase, however, they will require access into the driveway with a 47’ ladder truck, therefore the driveway width can’t be reduced. The revised summary of peak flow rates is below.*

**Peak rates have been reduced or maintained for each storm event with the exception of the 100-year storm. It’s is Fuss & O’Neill’s opinion the increase is minimal and will have no impact on downstream conditions. It’s at the discretion of the Planning Board to allow the increase.**

***Acknowledged.***

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3. Per Section 16-4.2, B and Section 16-8 of the Stormwater Management Bylaw, information for the outline in this section must be provided within the ongoing maintenance agreement. The Applicant has provided a Post-Construction Operation and Maintenance Plan, however it does not sufficiently include information required by Section 16-8.

*A Stormwater Management Operation, Maintenance, and Inspection Agreement addressing these items has been enclosed.*

**An agreement has been provided, however information is required to complete the agreement. It's understood at this time the information may not be available. Once available the agreement must be updated. An updated agreement should be provided to the Planning Board prior to the start of construction. No further review is required by Fuss & O'Neill.**

***Acknowledged.***

6. Per Section 16-6.1 of the Stormwater Management Bylaw, projects must meet the Massachusetts Stormwater Management Standards. The following Stormwater Management Standard 2 have not been met: a. Standard 2: Post-development peak discharge rates exceed pre-development peak discharge rates.

*Although there is a slight increase in post-development peak discharge rates, the rates have been minimized and are not expected to have downstream impacts.*

**Peak rates have been reduce or maintained for each storm event with the exception of the 100-year storm. It's is Fuss & O'Neill's opinion the increase is minimal and will not affect downstream conditions. It's at the discretion of the Planning Board to allow the increase.**

***Acknowldeged.***

14. Please provide the water quality unit inlet/outlet size on sheet L3.1 or on the detail on sheet L5.1

*On plan sheet L3.1, the inlet and outlet sizes were added to the structure table. On the detail on sheet L5.1, the inlet and outlet sizes were added to the inlet and outlet labels.*

**Inlet/outlet sizes have been provided. Due to the size, it's recommended, if accepted by the manufacture, trash racks be installed at the inlet and outlet. This will prevent small animals and debris from entering the system and causing potential damage to the unit. No further review is required by Fuss & O'Neill.**

***Trash racks will be provided as shown on plan sheet L5.1 which is enclosed herewith.***

22. The elevation on Basin Berm Overflow Weir detail indicates a 1' min. grade change between

the top of the berm and top of the overflow weir. The grading plan shows a grade change of 0.6' between top of berm and top of the overflow weir. Revise the grading plan to provide 1' of grade change. In addition it is standard engineer practice to provide one foot of freeboard when designing basins.

*The Basin Berm Overflow Weir has been revised to indicate a 0.6' grade change as indicated on the plan sheet L3.1. The basin berm elevation has been designed to provide 1' of freeboard to the highest stormwater elevation in the 100-year storm event as calculated in the HydroCAD calculations that model the combined basin.*

**The detail indicated does not appear to have been revised, it still indicates the overflow weir is 1 foot below the top of berm. In addition the HydroCAD calculations use an invert elevation that is only 0.5 feet below the top of berm. To ensure the basin is constructed as designed the detail should be updated. The calculations do show the basin provides one foot of free board for the 100-year storm. No further review is required by Fuss & O'Neill.**

***The basin detail has been revised to correspond with the drainage calculations as shown on plan sheet L5.1 which is attached herewith.***

We have enclosed the revised Title Sheet and Plan Sheet L5.1 dated April 3, 2019 with revision clouds for the changes outlined above. In addition, we have provided (2) full sets of the final plans titled "Center for Human Development Proposed Facility" Revised for Town Comments (2), prepared by Associated Builders, Inc., dated April 3, 2019 with revision clouds removed for clarity.

Please contact me if you have any questions, comments or need further information.

Sincerely,



Kimberly M. Masiuk, P.E.  
Project Engineer