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Project #27296

March 18, 2024

Gerry McDonald
Topsfield Health Director
Topsfield Stormwater Consultant
8 West Common Street
Topsfield, MA 01983

RE: 57 Perkins Row – Stormwater Permit Comments

Dear Mr. McDonald,

This letter is in response to the comments on the Stormwater Permit Application for 57 Perkins Row, Topsfield, MA. Hancock Associates' responses to the comments from Mr. McDonald are as follows:

1. The overall post-development drainage area appears to be approximately 2,500 sf greater than the overall pre-development drainage area.

Hancock Response: The pre-development and post-development drainage areas have been reviewed and confirmed to be the same.

2. The storage volume/outlet calculations for Infiltration Field 3 (Pond IF3) have elevations that differ from those shown on the stormwater plans.

Hancock Response: The elevations listed in HydroCAD have been updated to match the Site Plans. Please see the revised Stormwater Report included.

3. The outlet for the Infiltration Trench (Pond IT) incorrectly models the outlet as a 122' long weir at elevation 68.

Additional consideration should be made regarding the fact that the driveway infiltration trenches will outlet at the low end of the trenches before they can fill to the capacities listed in the calculations.

Hancock Response: The infiltration trenches have been extended to include two flaired areas that will act as outlet structures. These flaired areas are modelled as a sharp crested weir totaling 20' in length and will act as level spreaders. The level spreaders will direct overflow away from the driveway and towards vegetated areas.

4. Although the calculations indicate that the outflow from Infiltration Field 2 (Pond IF2) are minimal even for the 100-year storm, we recommend that the field/outlet be relocated/reoriented so that area drain 2 (AD2) does not discharge straight to the driveway infiltration trench.

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Hancock Response: Area Drain 2 (AD2) has been moved 50' to the west, to an area where overflow will be diverted away from the infiltration trench.

5. I don't see the existing septic tank on the stormwater plan but it looks like you may have used the wrong house corner to tie the tank on the draft septic plan PDF.

Hancock Response: The existing septic tank has been added to the Stormwater Plans. The existing septic tank location has been revised to match ties provided in the 2021 Title 5 inspection.

Conclusion

Please do not hesitate to contact me should you have any additional questions or concerns. I can be reached at 978- 777-3050 or jpolakiewicz@hancockassociates.com.

Sincerely,
Hancock Associates



James J. Polakiewicz, EIT