

TRITECH

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July 28, 2020

Ms. Marcia Gasses
Town of Barrington
333 Calef Highway
PO Box 360
Barrington, New Hampshire 03825

Subject: Barrington Storage-Office
Tax Map 220, Lots 54-7-1 & 54-7-2
Calef Highway
Barrington, New Hampshire
Job No. 19107

Dear Marcia,

We have reviewed the second peer review completed by Dubois & King dated July 8, 2020. Below please find their comments along with our responses, in blue text.

1. Sheet C-3. Drain Pipe Table. The following drainage pipes have discrepancies with the HydroCAD model: Pipe P-4 end invert **Repeat Comment. The end invert indicated on the plans and in model do not coincide.**
Pipe P-4 invert has been corrected on Sheet C-3 to coincide with the Hydorcad model.
2. Sheet C-3. Bioretention Plan and Details. The following was noted for the proposed outlet pipe for the outlet structure associated with the bioretention pond:
 - a. The proposed diameter is 12 inches. We recommend that the applicant revise the proposed drainage pipe to have a minimum diameter of 15 inches in accordance with Barrington Site Plan Review Regulations 4.7.7(1). **The applicant has revised the pipe diameter to 15 inches in the modeling and the drain pipe table however the Bioretention #1 detail indicates a 12" diameter. We recommend that the applicant revise this detail to indicate 15".**
The detail for Bioretention #1 on Sheet C-3 has been revised to indicate a 15" outlet pipe.
3. Drainage Analysis. Pond BIO-1. Outlet Device #2. The number of columns for the horizontal orifice does not match the catch basin frame and grate detail shown on Sheet SP-7 Construction Details. **Repeat Comment. It appears that the number of rows and columns should be 4 and 8, not 14 and 4. We recommend that the applicant revise as needed so that the model and the plans coincide.**
Detail #6 has been added to Sheet C-3 to clarify that the grate proposed as Outlet Device #2 is NEENAH model R-3210-Q which does have a 4x14 configuration.

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4. Drainage Analysis. The rip-rap apron design calculations included in the analysis were based on a 25-year storm event. The 25-Yr HydroCAD calculations were excluded from the analysis. Therefore, we could not confirm that the correct flow rates were used for the riprap sizing. We recommend that the applicant provide 25-yr HydroCAD calculations to confirm the flow rate used in the riprap sizing.
- The attached Drainage Analysis contains the 25 Year HydroCAD calculations for the corresponding riprap calculations.

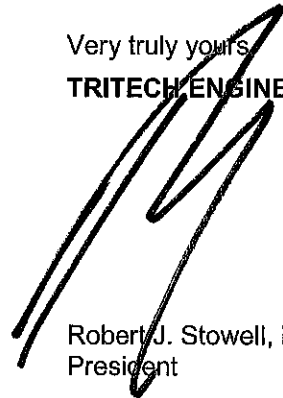
In addition to addressing these latest comments from Dubois & King this revised plan set also addresses comments raised by the NHDES AoT review of Michael Schlosser, dated July 20, 2020.

Enclosed please find:

- Two (2) Full Size copies of the revised Plan Set.
- Twelve (12) 11 X 17 copies of the revised Plan Set.
- One (1) copy of the current Drainage Analysis.

Please advise should you have any questions.

Very truly yours,
TRITECH ENGINEERING CORP.



Robert J. Stowell, P.E., L.L.S.
President

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