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April 1, 2021

Town of Cohasset
ATTN: Conservation Commission
41 Highland Ave.
Cohasset, MA 02025

RE: Revised Stormwater Design, 10 Ocean Ledge Dr., Cohasset, MA.

Dear Members of the Conservation Commission:

Please find enclosed revised proposed conditions plan, stormwater design and summary. We respectfully ask that you put us on the agenda for the next scheduled conservation commission meeting on 4/8/21. Although the previous design met the design standard requirements, the CCC and abutters voiced some qualitative “concerns” about the stormwater management design, but nothing quantitative so we are providing a brief quantitative summary below of what the previous design was capable of handling and what the new design is capable of handling:

- Previous design and updated design are in full compliance with Cohasset and Mass Stormwater Standards.
- Existing drainage pattern is maintained, and impervious surfaces are minimized to greatest practicable extent.
- All runoff from impervious surfaces is directed to infiltration BMPs.
- Design provides for a reduction in peak rate and volume for all storms up to and including 100-year storm.
- Design provides for 414% required recharge (600cf/145cf), compared to previous submittal which provided for 162% required recharge (235cf/145cf).
- Design provides for 290% required water quality volume (600cf/207cf), compared to previous submittal which provided for 114% required WQV (235cf/207cf).
- Design exceeds 80% TSS removal requirements. The infiltration chambers are sized to remove at least 80%, but in reality, a greater amount is removed since the infiltration systems are tied together, which removes .8^n depending on how many “basins” the “drop of water” flows through until it reaches the design point.

In summary, the design will not only provide for stormwater mitigation for the proposed property but will also alleviate some of the existing issues (if there are any). The revised design has a large factor of safety at 2.9 which is well above the regulation requirements. If you have any questions or require additional information, please contact me at (781) 378 – 2593.

Sincerely,
Atlantic Coast Engineering, LLC

Joseph Hannon, P.E.

Principal