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January 23, 2018

Ms. Emily Wentworth, Senior Planner/Zoning Administrator
Hingham Zoning Board of Appeals
Town Hall
210 Central Street
Hingham, MA 02043

**Re: Engineering Peer Review
Comprehensive Permit Plan known as “River Stone”
Viking Lane and Ward Street, Hingham MA
Assessors Map 124, Lots 70-75 & Lot 26
Applicant: River Stone, LLC**

Dear Ms. Wentworth:

This letter is in response to questions and comments in a review letter dated January 9, 2018 from Patrick G. Brennan, P.E. for the above referenced project.

Enclosed herewith are the following:

- Eight (8) sets Plans entitled “Comprehensive Permit Plan known as River Stone” prepared by McKenzie Engineering Group, Inc. (MEG) with the latest revision date of January 19, 2018.
- Eight (8) copies of the updated Project Waiver List.
- Eight (8) copies of the sizing calculations for the Soil Absorption System (SAS).

Responses by McKenzie Engineering Group, Inc. (MEG) correspond to the outline of the review letter and are in *italics*.

Comments

1. The list of requested waivers in the application materials includes many “general waivers” from various regulations. The waivers should explain the exact regulation from which relief is being requested so that the Board fully understands the implication of each requested waiver.
 - *Comment noted. An updated Waiver List is included with this submission.*
2. Updated plans to include the following:
 - a. Grading and drainage plan – there is one included in the plan set received today.
 - *Comment noted. No response required*

- b. Utilities Plan – there is one included in the plan set received today.
 - *Comment noted. No response required.*
- c. Landscaping Plan
 - *Comment noted. A Preliminary Landscaping Plan is included with this submission.*
- d. Construction details – there are details included in the plan set received today.
 - *Comment noted. No response required.*
- e. Exterior light plan with photometrics
 - *Comment noted. Light posts will be provided at every house equipped with a photosensitive cell to operate dusk to dawn, therefore; an exterior lighting plan with photometrics is not required.*
3. Stormwater management report and drainage calculations. We have not reviewed the calculations in the Preliminary Hydrologic Analysis received today.
 - *Comment noted. No response required.*
4. Soil information including test pits logs. We note that some test pit logs and locations are included in the Preliminary Hydrologic Analysis received today. However, there are none located within the footprint of the detention basin and many of the subsurface infiltration systems shown on the plan set received today.
 - *Comment noted. Before development of final construction plans, additional test pits will be performed to confirm soil conditions and infiltration rates and adjustments will be made if the soils are determined to be different than assumed. All work will comply with the Mass DEP Stormwater Management Regulations and a completed stormwater checklist and associated calculations will be provided in connection with the development of a Notice of Intent.*
5. Documentation to demonstrate that adequate water supply is available for domestic use and fire protection. We note that two hydrants are shown on the plan set received today and suggest the Applicant consult with the Fire Department about the location and number of hydrants.
 - *Comment noted. A request for existing hydrant flow tests has been made to Aquarion Water Company. MEG will consult with the Hingham Fire Department regarding location and number of proposed hydrants.*
6. Sizing calculation for the septic soil absorption system to demonstrate that there is sufficient area for the system and required reserved area.
 - *Comment noted. Sizing calculations are included in this submission, please see Table 1.*

We believe that the revisions to the plans and the additional information as noted above adequately address the comments from Amory Engineers, P.C..

Also, in response to some of Vanasse & Associates, Inc. comments the following have been added to the plans:

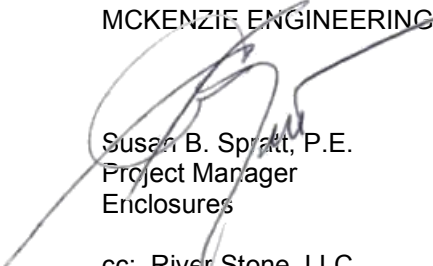
- Truck turning analysis for the Town of Hingham Fire Department design vehicle and a single-unit truck (SU). See plans TT-1 and TT-2.
- A two (2) foot grass strip between the proposed sidewalk and the proposed cape cod berm.
- Marked stop lines and crosswalk with ADA compliant wheelchair ramps at Ward Street.

- Proposed sidewalk extended along one-side of Viking Lane to Ward Street.
- Driveways to the individual units provide the minimum 21 feet from the back of the sidewalk and the garage door and 23 feet from the edge of the travel way to the garage door in locations without a sidewalk.

Other comments from Vanasse & Associates will be addressed in future correspondence.

Please contact me at your convenience if you have any questions or require additional information.

MCKENZIE ENGINEERING GROUP, INC.



Susan B. Spratt, P.E.
Project Manager
Enclosures

cc: River Stone, LLC