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Engineering Department

INTERDEPARTMENTAL COMMUNICATION

To: Planning Department

Date: June 25, 2015

From: Engineering Department

Subject: Site Plan Special Permit #05/29/15 - 454 – Haartz Corporation – 87 Hayward Road

We have reviewed the site plan special permit for Haartz Corporation 87 Hayward Road dated May 28, 2015 and have the following comments.

1. In the Drainage Analysis report, the Rainfall data for 100 year storm should be 6.5 inches, not 6 inches that is used in the report.
2. For the 100 year storm analysis, the flow rate is greater in post than pre-development.
3. The applicant has not addressed Section 4.3.6.2 of the Zoning Bylaw regarding Watershed Recharge which states:

*Watershed Recharge – The **amount of annual precipitation** being captured and recharged to the groundwater on site shall not be reduced due to development related surface runoff from the site when compared to pre-development conditions. Where a Special Permit or Subdivision Approval is required the Special Permit Granting Authority or the Planning Board shall require a hydrologic budget or water balance calculation for the site, showing pre- and post-development conditions, prepared by a Massachusetts Registered Professional Engineering experienced in hydrogeology. This Section shall also apply in Zone 4.*

Water balance calculations should be provided which illustrates the annual volume of recharge in the pre-development and post-development conditions. This volume should not decrease in post-development.

4. There is no information provided in Appendix A – Soil Data.
5. The total area of subcatchment EXDA-7 and PDA-1 did not add up correctly.
6. There is a typo in HydroCAD, grass area for Sub 7S should be 28,751, not 28,571.
7. There is no Earth Removal calculation provided.

8. The TSS removal calculation provided has the removal rate of 53% which is below the required 80% TSS removal rate.
9. The applicant did not address the sidewalk requirements.
10. The elevation should be based on 1929 NGVD, not assumed as noted on the General Construction Requirement Note.
11. The engineer needs to show two temporary benchmarks and the starting benchmark on the plans. The temporary benchmarks should be located on fixed objects that will not be disturbed during construction.
12. An as-built plan certified by a Massachusetts Licensed Surveyor showing the buildings, pavement, drainage, utilities, etc. should be required at the conclusion of construction. A Professional Engineer should also stamp the as-built plan to certify that the site has been completed in accordance with the approved site plan and that all features required on the site by the approved plans, decisions, etc... have been field inspected by the PE and conform with the approved design. Any non-conforming features shall be clearly noted.
13. The engineer should add a note restricting the hauling of earth to and from the site between the hours of 9AM and 4PM on weekdays on the plans.