



TATA & HOWARD

June 3, 2016

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PLANNING BOARD
GRAFTON, MA

Mr. Joseph Laydon, Town Planner
Grafton Municipal Center
30 Providence Road
Grafton, MA 01519

Subject: Trinity Avenue Pump Station-25 R Trinity Avenue
Special Permit and Site Plan Review
Town of Grafton, Massachusetts

Dear Mr. Laydon:

On behalf of the Grafton Water District, Tata & Howard, Inc. (T&H) has prepared supplemental responses to the Special Permit and Site Plan Approval, Plans, and Notice of Intent (NOI) Review Response received via email dated April 15, 2016.

We have presented Graves' Comments from the April 15, 2016 correspondence in *italics*, and our responses in **bold**. We trust that this information addresses Graves' comments and serves as supplemental information to the previous response submitted on May 12, 2016.

Regulations for the Administration of the Wetlands By-Law

11. *The plans only note the perimeter layout of the compensatory flood storage area. The plans must show the proposed elevations (by topographic contours and/or spot elevations as appropriate) within the compensatory storage area. Also, there need to be calculations (and supporting plans or sketches where necessary) that show the flood plain earth fill volumes and compensatory storage volumes in vertical foot increments. (V.B.5(a))*

The drawings have been revised to include topographic contours and spot elevations as appropriate within the compensatory flood storage areas. Compensatory storage volumes are provided in the Stormwater Report, Attachment 2. An alternative to the previously proposed compensatory storage area is to excavate along the edges of the proposed driveway/gravel turnaround area in an effort to limit the overall disturbance and clearing at the site. See attached drawing no. C-3 & C-4.

Hydrology & MADEP Stormwater Management

12. *The project was not identified as a critical area in the MassDEP Checklist for Stormwater Report. In our opinion, the Checklist for Stormwater Report must be revised to indicate that the project is located in a critical area (Zone 1 of the new public water supply wells).*

The Checklist for Stormwater Report has been revised to indicate that the project is located in a critical area (Zone I of a public water supply).

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13. *Drainage maps showing drainage basin delineations were not included with the Stormwater Report. Nevertheless we don't have an issue with the pre- and post- development drainage areas used in the Rational Method Calculations for pre- and post- development peak rates of runoff. Nevertheless, if the Stormwater Report is resubmitted for any reason, the revised report needs to include pre- and post-development drainage area plans.*
Drainage maps have been completed and are attached to the revised Stormwater Report. See Attachment 2.
14. *The calculations used to determine peak discharge rates in the pre- versus post development conditions used the same "C" coefficient for both conditions. (The "C" coefficient represents ground cover.) The post development "C" coefficients don't account for the driveway on the north portion of the site nor do they account for the gravel and the grass ground cover on the southern portion of the site.*
The peak discharge rate calculations have been revised to account for the appropriate "C" coefficients as represented by the existing and proposed ground cover. Porous pavement will be used outside of the Zone-I to allow for the post-development peak discharge rates to be less than the pre-development discharge rates.
15. *The submission did not include calculations that demonstrated that the post-development peak discharge rates do not exceed the pre-development peak discharge rates for the 2-year and 10-year storm event. Calculations for the 2-year and 10-year storm event must be submitted as required by Stormwater Management Standard 2.*
The peak discharge rate calculations have been revised to include the calculations required by Stormwater Management Standards.
16. *Soil testing data was not provided to show the seasonal high groundwater elevation. GEI could not determine if the proposed elevation of the infiltration system will satisfy the minimum two-foot offset to groundwater. The bottom of the stone surrounding the chambers (elevation 287.5 feet) is lower than the nearby wetland resource area.*
The infiltration system elevations as shown on Drawing No. C-6 have been revised to coincide with the groundwater elevations obtained from Boring No. B-2 completed on September 14, 2015. Test pit data is currently unavailable. Following installation of the access road and bridge crossing, the specifications shall carry provisions for the Contractor to complete a test pit under the direction of a certified soils evaluator and witnessed by an agent of the Planning Board to determine the seasonal high groundwater in the area of the proposed infiltrator system. Should the system need to be mounded, the mounding will be completed outside of the wetlands and floodplain resource areas so not to effect the existing resource areas.
17. *The Construction Period Stormwater Pollution Prevention plan refers to Appendix F, however this appendix was not provided. Appendix F must be provided with the Stormwater Report.*
Appendix F in the Construction Period Stormwater Pollution Prevention has been revised to reference Attachment 6 – Related Specifications. Related specification

sections have been included in the revised Stormwater Report.

18. *The Long Term Pollution prevention Plan refers to Appendix G, however this appendix was not provided. Appendix G must be provided with the stormwater Report.*
Appendix G in the Long Term Pollution Prevention Plan has been revised to reference Attachment 5 – Operation & Maintenance Plan.

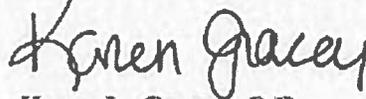
General Engineering

32. *To prevent sediment from entering Trinity Avenue, a stabilized construction entrance needs to be installed and maintained at the site entrance until the driveway pavement is placed.*
The plans have been revised to require a stabilized construction entrance. See Sheet C-2. Provisions will also be included in the appropriate specification sections.

A revised stormwater report has been submitted to the Conservation Commission. We will continue to work closely with the Town of Grafton on this important project. If any additional information or clarifications are required, please do not hesitate to contact our office to expedite the NOI review and approval.

Sincerely,

TATA & HOWARD, INC.



Karen L. Gracey, P.E.
Vice President

cc: Grafton Conservation Commission
Matthew Pearson, Grafton Water District
Jeffrey M. Walsh, P.E., Vice President Graves Engineering Inc.

