



August 24, 2020

Fairhaven Planning Board
40 Center Street
Fairhaven, MA 02719

RE: RESPONSE TO LEWIS LANDING COMMENTS BY GCG ASSOCIATES

Dear Board Members:

Enclosed are a set of plans that have been revised (July 8, 2020) in response to the May 11, 2020 comment letter by GCG Associates, Inc.

Our responses are as follows:

Plan Set Comments

Sheet 1, Item 2 - Drain easement for the Town's drainline should be provided.

Response - It will be provided

Sheet 2, Item 1 - The infiltration area should be cleared, loamed and seeded.

Response: We prefer to leave the upland wood stand as is.

Sheet 2, Item 2 - Relocate planting around detention basin.

Response: Access for maintenance can be achieved at each end of the basin.

Sheet 3, Item 1 - Identify roof sections to be infiltrated.

Response - The fact that all roof runoff will flow to the subsurface infiltration systems has been noted on the plans under "roof drain calculations" on sheet 3.

Sheet 3, Item 1 - The bottom of the western infiltration system shall be provided.

Response: Refer to sheet 3 of the plans. The undisturbed existing ground of the wooded upland area is the proposed bottom totaling 2,962 square feet. Since it is an upland area, the seasonal high water table is, by definition, lower than the ground surface. It is not proposed to clear, stump, loam and seed the area or to provide a maintenance access path. Spot shots have been added.

Sheet 3, Item 2 - The constructed pocketed wetland meets the treatment requirement and only needs a side slope waiver from the Planning Board.

Response: We agree. Refer to the two requested waivers on the title sheet.

Sheet 3, Item 4 - A fence is not proposed around the basin.

Response - The dense evergreen hedge forms an effective fence in most areas and the flat slope where there is no hedge allows easy access and egress.

Sheet 3, Item 6 - A waiver for constructed wetlands could be requested.

Response - This is not a waiver but rather a normal approval.

Sheet 3, Item 7 - Add dimensions to the constructed pocket wetland elements.

Response - Done on sheet 6.

Sheet 3, Item 8 - Consider relocating planting along the forebay access path.

Response: There is no longer any obstructing vegetation.

Sheet 3, Item 13 - Show forebay bottom contours.

Response - Done - sheet 3 and 6

Sheet 3, Item 14 - Clear the upland wooded infiltrated area.

Response - It would be better to leave the area natural.

Sheet 3, Item 15 - Infiltration basin side slopes should not exceed 3:1 and should provide one foot freeboard.

Response - The 3:1 side slopes and 1-foot freeboard have been added (sheet 3).

Sheet 5, Item 2 - Rename basin outlet structure and provide dimensions and elevation.

Response - Done (sheet 5).

Sheet 5, Item 3 - Specify orifice plate details.

Response - Done (sheet 5)

Sheet 5, Item 4, - Verify trench detail.

Response - Done on sheet 5

Sheet 6, Item 4 - Lower bottom of pocket wetlands.

Response - Done

Sheet 5, Item 5 - Lower bottom of micropool.

Response - Done (sheet 6)

Sheet 6, Item 6 - Water quality volume should be below outlet orifice.

Response - It is below outlet orifice.

Sheet 6, Item 7 - Provide crushed stone outlet detail.

Response - Done on sheet 5.

Sheet 5, Item 8 - Provide emergency spillway detail.

Response - It has been added on sheet 6.

Stormwater Report Comments

Item 2 - Show pocket wetland contours on plan and update calculation sheet.

Response - Done

Item 3 - Infiltration basin should be sized to control the post-development volume for the 10-year design storm per MassDEP Stormwater regulations.

Response - The MassDEP Stormwater standards relate to rate of flow not volume. A waiver has been requested from the Fairhaven zoning standards.

Item 4 - The catch basin should be enlarged.

Response - Done (sheet 3)

Item 5 - 65% of impervious runoff area be recharged.

Response - Done (sheet 3 bottom right "infiltration calculations")

Item 7 - Providing superior stormwater treatment can only be done with a waiver from the Planning Board.

Response - The Planning Board can approve a treatment that is superior to their normal methods without a waiver. The zoning regulations specifically allows this.

Item 8 - Reduce outlet size to gain separation.

Response - Done (sheet 5)

Operation and Maintenance Plan

Item 1 - Silt sack should be used.

Response - Done

Items 2 and 4 - Include infiltration basin in Operation and Maintenance Plan.

Response - Done

Waivers Requested

Item 3 - Waiver requested.

Add downstream infiltration to hydrocad model.

Response - Done

Item 4 - Waiver requested.

Response - We agree

In conclusion, other than complying with the suggestion of clearing and grubbing the downstream upland forest, all recommendations have been incorporated in the design.

Sincerely,

PRIME ENGINEERING, INC.



Richard J. Rheaine, P.E., LSP
Chief Engineer