

February 28, 2020

Katelyn E. Sullivan, City Planner
Community Development Dept.
City of Newburyport
60 Pleasant Street
Newburyport, MA 01950

Re: Bradley Fuller Park, Phase Two – Peer Review Response

Dear Ms. Sullivan;

On behalf of the City of Newburyport, please accept this letter as a response to the peer review comments provided by Phil Christiansen PE on February 24, 2020. Our Civil Engineer, John Barrows with Marchionda & Assoc., has spoken with Mr. Christiansen and we have made the following plan updates and revisions based upon his comments.

1. BMP ‘A’ (Area Drains A, B, C, D & E)

- a. The plans and details have been revised to lift the trenches and outlets above the marine clay layer where possible. Detail #5, Sheet L5, has been modified to reduce the depth to the bottom of the stone from 2.5’ to 2’, lifting the bottom elevation by 6”. Detail #5 has also been modified to change the width of the stone from 18” to 30” to increase storage capacity of the trench.
- b. We have added the existing drainage system under the existing track & field to the updated plans. The proposed system connects to this existing system and outlets at a 36” RCP near Low Street. Refer to sheet L-2 for details.

2. BMP ‘B’ & ‘C’ (Leaching Basins)

- a. The plans have been revised to eliminate the proposed leaching basins. In place of the basin we have shown two area drains connected by an 8” perforated HDPE pipe set with a stone trench. We have also lifted the rim of the structures from 17.50 to 18.50. This now sets the bottom of the proposed stone trench at elevation 16.50 which is above the layer of marine clay identified in the geotechnical report. Refer to Sheet L-2 and Sheet L-5, Detail # 4 & #5 for additional information.

3. BMP ‘D’ (Infiltration Trenches at Parking Area)

- a. The plans have been revised to add a 12” perforated HDPE Pipe to the infiltration trench for increased storage. We have also connected the trenches to the Stormwater Management Area with a 4” solid HDPE pipe to provide an overflow. Refer to Sheet L-2 and Sheet L-5, Detail #3 for additional information.

4. BMP Characteristics.

- a. The original plans dated 1/20/20 did not show the 300’ of trench referred to in the stormwater report. Those trenches have been added to the current plans. Refer to sheet L-2.

- b. As noted above, leaching basins have been removed in favor of a more shallow area drain / stone infiltration trench.

5. Plans:

- a. Sheet L-3, Detail #6: The types of gravel (crushed stone) have been specified. Thickness of asphalt binder and top course have also been specified on the detail.
- b. Sheet L-3, Detail #7: The type of gravel has been specified on the detail.
- c. Sheet L-3, Detail #8: The type of gravel has been specified on the detail.
- d. Sheet L-5, Detail #1: The overflow weir specified in the calculations has been shown. The width is noted as 10', and the surface is proposed to be stone. These improvements have been noted on sheet L-2.
- e. Sheet L-5, Detail #1: Depth of amended topsoil has been shown as 18". The note of 'Free Draining Subbase' has been changed to 'Existing Soil Subbase'. We have also changed the reference to the BMP from 'Rain Garden' to 'Stormwater Management Area', as discussed with Mr. Christiansen.

We have made other minor improvements to the plans, include the following:

- 1. Added a split rail fence along the edge of the parking area as requested by the Conservation Commission at their last meeting. Please refer to Sheet L-1 and Sheet L-5, Detail #7.
- 2. Added plant material to the Stormwater Management Area. Refer to sheet L-5, Detail #1.
- 3. Added four (4) Bike Racks to the 8' Walkway along the track and field parking area as requested by the Planning Board. This will accommodate thirty-six (36) bikes. Refer to Sheet L-1 and Sheet L-3, Detail #11.

I have attached an updated set of plans and details for your review and reference. I will follow-up with a revised stormwater report next week. We appreciate your time and consideration with regard to this matter, and we look forward to working with you throughout the approval process. Please feel free to contact my office with any further questions or concerns.

Sincerely,
Huntress Associates, Inc.



Christian C. Huntress, RLA MA #1178
Landscape Architect

CC: Lise Reid, City of Newburyport
John Barrows, Marchionda & Associates
Phil Christiansen, P.E.