

February 1, 2024

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Tel: 978.532.1900

Littleton Conservation Commission
37 Shattuck Street
1st Floor, B100
Littleton, MA 01460

Re: Supplemental Information
NOI Filing, DEP File No. 204-0995 – Littleton Well and Water Main Extension

Dear Members of the Commission:

On behalf of the Littleton Electric Light & Water Departments (LELWD), Weston & Sampson Engineers, Inc. is providing clarification to various questions and comments from previous Littleton Conservation Commission public hearings for the Littleton Well and Water Main Extension Project.

Clarifications:

1. At the January 16, 2024, hearing, a draft tree planting plan was presented at the meeting. Discussion followed in which the Commission indicated they would prefer potentially a 2:1 replanting ratio and mixed tree species similar to tree variety as presented in the tree survey previously conducted. A Buffer Zone Restoration & Enhancement Plan was emailed to the Conservation Agent on February 1, 2024. Using a 20-ft on center spacing we are proposing 52 trees (Red & Blak Oaks, Eastern White Pine, White Birch, American Hop-Hornbeam, and Red & Sugar Maples) and 122 shrubs (Highbush blueberry, Sweet Pepperbush, Maple-Leaved Viburnum, American Witch Hazel, and Black Chokeberry). Proposed restoration efforts also include incorporating coarse woody debris and brush piles and seeding disturbed areas with native seed mix. One main goal of this restoration plan is to focus on species diversity to enhance resiliency. Although space on the site is limited, the plan focuses on creating more forest edge habitat and enhancing the wildlife habitat value of the existing access road by restoring it. The proposed planting areas will consist of a variety of native tree and shrub species that have been selected based on their habitat value and suitability for this site. By planting a diverse array of species and seeding a native seed mix to enhance the understory, the project will contribute to the overall health and vigor of the ecosystem and strengthen its ability to adapt to changing environmental conditions, promoting long-term sustainability.
2. At the January 16, 2024, Littleton Conservation Commission public hearing (the hearing), stormwater test pit results were requested. A technical memorandum including the test pit logs and estimated seasonal high groundwater elevation (ESHGW) determination was emailed to the Conservation Agent on February 1, 2024. The test pits indicated the minimum 2.0-ft of separation to ESHGW as required by MassDEP in the Stormwater Handbook will be provided by the stormwater design.
3. At the January 16, 2024, hearing, there were a few questions regarding what year storm the proposed stormwater infiltration areas were designed for and where does the water store and drain during a rain event. The infiltration basin captures and mitigates the 100-year storm event capturing flow from Station 0+00 to approximate Station 10+00. During the 100-year storm event, the basin has 1.03-FT of freeboard and does not engage the overflow device. The infiltration trench at the base of the roadway is designed to capture the first 1-inch of rainfall and mitigates up to the 10-year storm event. During 50 or 100-year storm events, the infiltration trench at the head of the roadway will allow water to stage up to a maximum elevation of 224.14-FT (the highest elevation at the southerly edge of the pavement) as the head of the roadway will function as a very shallow basin. Once the runoff reaches 224.14-FT, water will discharge over the southerly edge of the roadway towards the wetland. The edge of the roadway functions as a level spreader to minimize discharge velocities and reduce erosion. During the 100-year storm event, the velocity of runoff discharging towards the wetland from the infiltration trench only reaches a maximum velocity of 0.50-FPS, well below the threshold of 3.0-FPS, which triggers the need for outlet protection per the MassDEP Stormwater Handbook. Please see items 4 through 6 below for additional information on stormwater design and management.
4. The final Stormwater plan sheets provided to Planning Board were emailed to the Conservation Agent on February 1, 2024. Sheet C103 provides a clearer view of the different hatching separating the proposed

infiltration trench (18-inch deep crushed stone) where the stormwater off the roadway is directed versus the 12-inch deep crushed stone area adjacent to the building where snow may be plowed to. Sheet C501 contains a cross-sectional detail of the 18-inch deep infiltration trench to be installed at the base of the roadway. Compost filter tube, silt fence, and dewatering discharge disposal details are also included in this plan set.

5. The revised Stormwater Report (updated 12/14/2023 for Littleton Planning Board) was emailed to the Conservation Agent on February 1, 2024.
6. Prior to the start of construction, the Construction Contractor is required to obtain a National Pollutant Discharge Elimination System (NPDES) Construction General Permit for stormwater discharges from construction activities. The Construction Contractor is also required to develop and provide a Stormwater Pollution Prevention Plan (SWPPP) for review and approval as part of their shop drawing submittal process. .

We look forward to discussing the project at the next meeting on February 6th. If you have any questions regarding this submittal, please contact me at (978) 573-4024 or mcmanust@wseinc.com.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.



Tara E. McManus, PE

Vice President

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