



City of Methuen, Massachusetts

Department of Public Works

Engineering Division

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Neil Perry
Mayor

March 7, 2022

To: Community Development
City of Methuen

From: Stephen J. Gagnon, PWM *SJS*
Engineering Department Administrator

Subject: 23 Hampstead Street
Definitive Subdivision Plan

As requested, I have reviewed the revised plan set, Stormwater Management Report, and response letter prepared by Millennium Engineering Inc. (MEI), dated March 1, 2022, in response to my memo dated February 9, 2022. I have deleted the resolved issues; the remaining items retain the numbering from the February memo. My original comment is in plain text, MEI's March 1, 2022, response is in italic text and my current comment is in bold text.

2. The cover sheet of the plan set requests the following waivers from the Subdivision Rules and Regulations:
 - a. Section 5.6.1 - Looped water main.

As stated previously, I oppose granting this waiver.

7. Subdrains should be provided along the roadway where the cut profile exceeds one foot.

MEI 3/1/22 – A note has been added to the plan and profile (page 6) stating "subdrains are to be installed at a minimum starting at station 0+00 and where the Department of public works deems necessary.

Comment satisfactorily addressed.

13. An underdrain should be provided in the infiltration basin so it can be dewatered for maintenance.

MEI 3/1/22 – The infiltration basin cross section detail has been revised to show the subdrain and call out the pipe size/material and invert.

Comment partly addressed. While some information has been provided, the pipe the material has not been specified, nor has the type and location of the valve been provided. Also, the connection of the subdrain the outlet structure is not depicted. It should be noted, the proposed invert elevation of the subdrain is lower than the invert out of the outlet control structure.

NEW ISSUES - from February 9, 2022

3. Sheet 5 has a note that states "Prop reconstructed sidewalk along project frontage (see detail). I was unable to locate a corresponding detail. It should be noted the Construction Standard for curbing and sidewalk on a primary roadway is vertical granite curbing and cement concrete sidewalk.

MEI 3/1/22 – The Applicant proposes to contribute \$10,000 in lieu of constructing the sidewalk as previously proposed.

Comment satisfactorily addressed.

NEW ISSUES - from March 7, 2022

1. It appears the footprint of the infiltration basin was modified at some point. The proposed drainage easement and erosion control need to be adjusted accordingly.
2. It appears the infiltration basin inlet pipe will be submerged in all storm events analyzed.
3. The roadway cross section detail specified 4" of loam and seed for the roadway shoulders. Six inches of loam and seed should be provided.
4. The roadway cross section depicts a 6" water main, this should be revised to 8" diameter water main.
5. The pipe exiting the outlet control structure is labeled as 12" and 18" diameter. The plan should be corrected accordingly.

The Project Engineer should address these issues in writing.