



1 East River Place
Methuen, Massachusetts 01844
Tel. (978) 687-3828
Fax (978) 686-5100

February 4, 2020

Community Development Board
City Hall
41 Pleasant Street
Methuen, MA 01844



**RE: Site Plan Approval
79 Haverhill Street
Response to Engineering Department Review**

Dear Members of the Board,

We are in receipt of review comments submitted by Engineering Department Administrator Stephen Gagnon made in a memo to the Board, dated December 6, 2019 reflecting his review comments for the project captioned above and offer the following responses. Engineering Department review comments are reproduced below in *italics* with our response directly following in **bold**.

Comment 1. The plan indicates a portion of the existing driveway is to be removed; consequently the west curb cut will not be needed recommend the west curb cut be closed with vertical granite curbing and that portion of the sidewalk repaved in accordance with ADA/ADAG requirements.

Response: This driveway opening has been revised to depict closure with vertical granite curbing and a reveal to match the existing reveal. A note was added for the sidewalk behind the curb to be graded to match the existing grade of the sidewalk, slope not to exceed 2%. A detail to this effect was also added to the plan, see sheet 3 of 5.

Comment 2. Presumably the addition will not have an external connection to municipal sewer or water as no new utility connections are depicted on the plan set.

Response: The existing service connections are intended to be used.

Comment 3. The site plan depicts proposed slope grading at 2h:1v. An effort should be made to reduce the slope to 3h:1v. If not possible slopes exceeding 3h:1v should be reinforced with a method approved by this office.

Response: The proposed slope, for this private development, is intended to match the existing slopes behind the building while still complying with the 50 no-disturb setback policy of the Conservation Commission. To further ensure the slope is stable following construction, a note has been added to compact, loam & seed with straw mulch until grass is well established, see sheet 4 of 5.

Comment 4. The site plan depicts a rip rap apron at the stormwater system outlet, a level spreader should be considered in this location.



Response: The proposed riprap apron is sufficient to mitigate the outlet velocities from the outlet structure. The design (length, width, etc) of the rip rap pad is based on the "*Design of Outlet Protection from a Round Pipe*" chart prepared by USDA-SCS which was included in the Stormwater Management Report.

Attached are revised plans, revision dated January 14, 2020 for your review. Should you have any questions concerning our responses, the revised plans, or required anything further, feel free to contact us at your convenience.

Sincerely,

ANDOVER CONSULTANTS, INC.

A handwritten signature in blue ink that reads "Dennis A. Griecci". The signature is written in a cursive, flowing style.

Dennis A. Griecci, P.E., LEED

Enclosures

Cc: Applicant