

August 26th, 2019

P.N. 18-11393B

City of Barrie Engineering Department

6th Floor City Hall
70 Collier Street
P.O. Box 400
Barrie, L4M 4T5

Dear Ms. Nadine Rush, C.E.T. (nadine.rush@barrie.ca)

**Reference: Proposed Townhouse & Back to Back Townhouse Development
City of Barrie File: D12-445, D14-1675
910 Veterans Drive, Part 1 Plan of Survey of Part of Lot 5, Concession 10
City of Barrie
Engineering Comment Response Letter (2nd Submission)**

Please find enclosed our revised engineering drawings and functional servicing report (FSR) to address your comments provided in the memo addressed to Bailey Chabot dated July 9th, 2019. Specifically, please find below our response to the comments provided:

Engineering Department Comments:

1. The FSR and concept plans have been revised to show a 12m laneway.
2. Noted.
3. Noted.
4. The geotechnical report will be updated to reflect the comment. The site required 3-4m of fill in order to conform with the concept grading design prepared by the H&H subdivision.
5. Ground water elevations be submitted under separate cover.
6. A preliminary phosphorus budget is provided in the revised FSR.
7. The draft plan has been updated to address the comment.
8. Noted.
9. Noted.
10. Fire demands for the proposed development will be calculated in accordance with the Fire



Underwriters Survey (FUS) at the detailed design stage. Based on our experience with similar back to back developments, fire flows typically range in the 100-120 l/sec range. Fire flow rates are dependent on construction type and if sprinklers will be installed which are both unknown at this time. Based on the proposed watermain sizes and transmission mains being extended for the Salem Lands, it is expected that sufficient water supply will be available to service the proposed development for both domestic and fire flow purposes.

11. - 26. Noted.

We trust this is satisfactory and addresses your outstanding concerns related to the civil engineering design on this file. Should you have any further questions or comments, please call.

Sincerely,
Pinestone Engineering Ltd.

Joe Voisin, P.Eng.
Project Manager

Attachments