



**re: Grading and Site Servicing Plans Review**  
**Proposed Apartment Building – Block 10**  
609 Longfields Drive – Ottawa, Ontario

**to: Campanale Homes – Mr. Cody Campanale – [Cody@campanale.com](mailto:Cody@campanale.com)**

**to: Campanale Homes – Mr. Timothy Campanale – [Timothy@campanale.com](mailto:Timothy@campanale.com)**

**date:** January 17, 2025

**file:** PG2119-MEMO.21 Revision 1

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Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide a review from a geotechnical perspective for the grading and site servicing plans for the proposed apartment building at the aforementioned site. The current memorandum should be read in conjunction with Paterson Group Report PG2119-4 Revision 2 dated October 17, 2024.

## **1.0 Grading Plan Review**

The following grading plan drawing, prepared by Stantec, has been reviewed by Paterson in preparation for the current memorandum:

- Grading Plan – 609 Longfields Drive – Block 10 - Project No. 160401885 - Sheet No. 4 of 7 – Drawing No. GP-1 - Revision 2 dated January 14, 2025.

Based on our review of the above noted grading plan, the proposed grade raises within the aforementioned site are within the recommended permissible grade raise of 2.0 m. No exceedances were noted for any area within the subject site. Therefore, the proposed grade raises are generally acceptable from a geotechnical perspective and will not require the use of lightweight fill at this time.

Perimeter footings of heated structures are required to be insulated against the deleterious effects of frost action. A minimum 1.5 m thick soil cover alone, or a combination of soil cover in conjunction with foundation insulation should be provided in this regard. Other exterior unheated footings, such as those for isolated exterior piers, are more prone to deleterious movement associated with frost action than the exterior walls of the proper structure. These footings should be provided with a minimum 2.1 m thick soil cover (or insulation equivalent).

Based on our review and given that the footings will be founded at a depth of approximately 7 m below the finished grade to accommodate two underground levels, no frost protection will be required for the proposed apartment building at the subject site.





## 2.0 Site Servicing Plan Review

The following site servicing plan drawing prepared by Stantec has been reviewed by Paterson in preparation for the current memorandum:

- ❑ Site Servicing Plan – 609 Longfields Drive – Block 10 - Project No. 160401885 - Sheet No. 3 of 7 – Drawing No. SSP-1 - Revision 2 dated January 14, 2025.

Based on our review of the above-noted site service plan, it should be noted that all services will be constructed outside the lateral zones of the proposed footings of the building and are considered to be acceptable from a geotechnical perspective. Additionally, sufficient frost protection (more than 2.1 m soil cover) has been provided for all of the proposed service pipes including watermain, storm, and sanitary sewer pipes throughout the subject site.

We trust that the current submission meets your immediate requirements.

Best Regards,

**Paterson Group Inc.**

Yashar Ziaeimehr, M.Sc., EIT



Faisal I. Abou-Seido, P.Eng.