

re: **Geotechnical Response to City Comments**
2 via Modugno - Block 14
Longfields Drive - Ottawa

to: Campanale Homes - **Mr. Christian Campanale** - Christian@campanale.com

date: March 11, 2020

file: PG2119-MEMO.19

Further to your request and authorization, Paterson Group (Paterson) prepared the following memorandum to provide geotechnical responses to city comments regarding the proposed development at the aforementioned site. The following memorandum should be read in conjunction with Paterson Memorandum PG2119-MEMO.17 Revision 1, dated October 28, 2019.

Comment B.10.

Provide a separate memo that confirms that the grading and servicing plan is acceptable from a geotechnical point of view.

Response: A separate memo was issue under the title Paterson Memo PG2119-MEMO.18 dated March 11, 2020. Based on our review of the grading plan provided, the proposed grading for the residential structure is in general conformance with our recommendations.

Comment B.11.

The original report does not mention about sensitive marine clay and tree planting restriction. Please provide discussion and recommendation with the new memo.

Response: Tree planting recommendations have been provided in Memo PG2119-MEMO.18 dated March 11, 2020.

The proposed development is located in an area of low to medium sensitive silty clay deposits for tree planting. Based on our knowledge of the general site area, the plasticity index is expected to be lower than 40%. It should be noted that stiff to hard silty clay crust was encountered extending from 3 to 4m below existing grade. Furthermore a well drained layer of glacial till was encountered draining the silty clay layer at depth. As such, the brown silty clay crust, below design footing level, should be considered low to medium sensitivity clay and should not be considered a sensitive marine clay.

Based on the above discussion, it is recommended that trees placed within 4.5 m from the foundation wall consist of small and medium size tree (up to 14 m in height) with shallow roots systems that extend less than 1.5m below ground surface. Trees placed greater than 5 m from the foundation wall may consist of moderate water demanding trees with roots extending to a maximum 2 m depth. It should be noted that shrubs and other small plantings are permitted near the foundation wall.

We trust that this information satisfies your immediate requirements.

Paterson Group Inc.



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