



January 31, 2023

Haris Khan
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Via Email: khan@fotenn.com

**Re: OTT-22005690 -A0 Geotechnical Response to First Round of Comments from City of Ottawa
Proposed Addition to Residential Building, 68 Sweetland Avenue, Ottawa, Ontario
City of Ottawa Project No. D07-12-22-0106**

EXP Services Inc. (EXP) is pleased to present the geotechnical response to the City of Ottawa first round of comments regarding the EXP geotechnical investigation report dated June 20, 2022 for the above noted site address (EXP Project No. OTT-22005690-A0).

The City of Ottawa first round of comments are presented in regular font and EXP responses are in italics.

City of Ottawa Comment 24: Please provide landscape and grading recommendations as clay of high plasticity is present on site.

EXP Reply to Comment 24: *The site is underlain by marine clay. The test results of the native upper brown portion of the marine clay were compared with the document titled, "Tree Planting in Sensitive Marine Clay Soils – 2017 City of Ottawa Guidelines (2017 Guidelines)" and indicate the upper brown clay has a low/medium potential for soil volume change. For soils that have a low/medium potential for soil volume change, the 2017 Guidelines indicate that the tree to foundation setback distance and tree planting restrictions should be in accordance with the 2017 Guidelines. A landscape architect should be consulted to ensure the setbacks and tree planting restrictions are in accordance with the 2017 Guidelines.*

With respect to grading recommendations, site grade raise restrictions are provided in Section 6 of the June 20, 2022 geotechnical report.

City of Ottawa Comment 25: Please provide discussions on the need of barriers in the service trench bedding, cover, and backfill to prevent lowering of ground water.

EXP Reply to Comment 25: *If the backfill for the service trenches will consist of granular fill, clay seals should be installed in the service trenches at select intervals (spacing) as per City of Ottawa Drawing No. S8. The seals should be 1 m wide, extend over the entire trench width and from the bottom of the trench to the underside of the pavement structure. The clay should be compacted to 95 percent standard Proctor maximum dry density (SPMDD). The purpose of the clay seals is to prevent the permanent lowering of the groundwater level.*

City of Ottawa Comment 26: Please submit a letter stating that the latest Grading and Servicing Plan has been reviewed and that it complies with the recommendations and statements of the latest Geotechnical Investigation.

Geotechnical Response to First Round of Comments from the City of Ottawa (Project No. D07-12-22-0106)
Geotechnical Report – Proposed Addition to Residential Building
68 Sweetland Avenue, Ottawa, Ontario
EXP Project No. OTT-22005690-A0
January 31, 2023

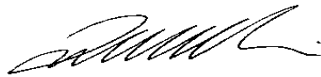
EXP Reply to Comment 26: A grading plan prepared for the site by McIntosh Perry under Project CC-22-5087 and dated January 18, 2023 was reviewed by EXP. The review indicates that the proposed grading of the site is in general conformance with the recommendation of the latest EXP geotechnical report dated June 20, 2022.

City of Ottawa Comment 27: This report does not provide geotechnical recommendations or conclusions in separate sections in this report. Please note, as per City Geotechnical Guidelines 2007 (as amended), a section is needed under this heading-please add this section.

EXP Reply to Comment 27: Please refer to the executive summary section of the geotechnical report which summarizes the findings and recommendations discussed in detail in the main body of the June 20, 2022 geotechnical report.

We trust that the information contained in this letter is satisfactory for your purposes. Should you have any questions, please do not hesitate to contact this office.

Sincerely,



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