PATERSON GROUP

memorandum

re: **Grading Plan Review**
Proposed Building Addition
641 Sladen Avenue, Ottawa, Ontario
to: Krista Construction Ltd. – **Mr. Geoffrey Lauzon** – geoff@kristaconstruction.com
date: July 21, 2022
file: PG4923-MEMO.01

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to document our grading plan review for the proposed building addition to be located at 641 Sladen Avenue in the City of Ottawa, Ontario. The following memorandum should be read in conjunction with Paterson Group Report PG4923-LET.01 dated June 14, 2019.

Grading Plan Review and Geotechnical Recommendations

Paterson reviewed the following grading plan prepared by McIntosh Perry for the aforementioned development:

- McIntosh Perry - 641 Sladen Avenue - Project No. CP-19-0187 – Site Grading, Drainage and Sediment and Erosion Control Plan - Drawing No. C101 Revision 3 dated May 11, 2020.

Due to the absence of a sensitive silty clay layer within the subsurface profile, no permissible grade raise restriction is required for the proposed building addition. However, as part of this review, Paterson reviewed the proposed underside of footing elevations to confirm the proposed footings are being placed over an acceptable undisturbed bearing medium and that sufficient frost cover is provided.

Based on our review of the above noted drawing, the proposed finished grades for the residential building are considered acceptable from a geotechnical perspective. The proposed underside of footing elevations (USF) for the building addition are expected to match the existing footings and therefore, sufficient frost cover will be provided for the proposed footings (minimum 1.5 m below finished grade for heated structures).

For Unheated structures, such as stairs, a minimum frost cover of 2.1 m below finished grade is required to provide sufficient frost protection.

We trust that this proposal satisfies your requirements.

Best Regards,

Paterson Group Inc.

Faisal I. Abou-Seido, P.Eng.