



April 6, 2026
File No.: 2490 Rev.1

Knox United Church
92 Northumberland Street
Ayr, Ontario NOB 1E0

Attention: Mr. Mike Schmidt

RE: Response to GRCA Comments
Slope Stability Assessment, Proposed Apartment Building
92 Northumberland Street, Ayr, Ontario

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) completed a slope stability assessment at the above-noted site to provide preliminary geotechnical assessment to address the setback requirements for the proposed apartment building from the present top of slope.

With respect to GRCA's comments, CVD can provide the following response:

- A slope of 3H:1V was used as a preliminary assessment to identify/determine setback from the existing top of slope for the proposed building. A 3H:1V slope is typically safe and has a factor of safety of 1.5 or higher. A detailed study can be conducted at the detailed design stage when the building location is finalized, and this will involve obtaining soil and groundwater conditions (through boreholes) to conduct a thorough slope stability study.
- Directing surface water towards and onto the slope surface can typically be achieved through "sheet" flow (avoid concentrated flow which will cause erosion).
- If a retaining wall is to be constructed as a result of final site grading plan (due to parking or storm water management needs), the retaining wall will add weight to the slope and a new analysis of the slope stability will be necessary.

If you have any questions, please do not hesitate to contact the undersigned.

Yours truly,
CHUNG & VANDER DOELEN ENGINEERING LTD.

Eric Y. Chung, M.Eng., P.Eng.
Principal Engineer