Richmond Hill

Appendix A1
SRPRS 20.007
File(s) D02-19017

Planning and Regulatory Services
Building Division

MEMORANDUM

To: Simone Fiore, Planner II

Copy To: Development Engineering

From: Building Services Division

Date: November 22, 2019

RE: **File No: D02-19017 ZBLA)**
Applicant: Xu Han, Fei Han, Tuo Lin
Ruggles/Major Mackenzie Drive East

A cursory Ontario Building Code review of the subject application has been completed and we offer the following comments:

1. The *Building Code Act* requires that the building/site be designed in accordance with the *Act*, OBC and other applicable law prior to the issuance of a building permit. It is the responsibility of the owner to ensure that the design complies with this. The Building Services Division will conduct a comprehensive review of this application following receipt of a completed building permit application.

2. The Hydrogeological Assessment prepared by S2S Environmental Inc. and dated May 17, 2019 indicates that the objective of the Hydrogeological Assessment was to:

    a. estimate potential dewatering requirements
    b. to identify and assess potential short and long-term impacts of the proposed development on groundwater conditions in the area, and
    c. recommended mitigation measures.

    Further, the Assessment indicates a groundwater elevation of 220.02 and a permissible excavation depth of 219.82. In this regard, please have the author provide comments on the following:

    Related to the above, please advise as to the potential short and long-term impacts of the groundwater conditions on the proposed development, including, but not limited to, commentary related to the following:

    I. There are a number of operating wells in the area, please advise if there is hydrogeological connectivity between the other sites with operating wells and what, if any implications the non-operation of those wells would have on the conclusions in your report.

II. It is noted that services are proposed below the permissible excavation depth. Please advise and comment on measures necessary, if applicable, for the installation and long term use of these services.

III. Please comment on the whether the groundwater regime is subject to hydrostatic pressure and if the removal of overburden/till during and post construction has the potential to be problematic.

IV. Please provide guidance in terms of the necessity and methodology for addressing and controlling the upwelling of water from depth (in the instance where the groundwater regime is under hydrostatic pressure).

3. Drawing SK-00 provides a D.A.R.C. Building Design Information, please provide an OBC Part 3 Data Matrix (per the OAA website).

David Finbow
Director, Building Services/CBO