



April 9, 2024

The Corporation of the City of Barrie  
157 Bradford Street  
P.O. Box 400  
Barrie, Ontario  
LM4 4T5

**RE: Concrete Pavement**  
**Firehall 6, 845 Maplevue Drive East, Barrie, Ontario**  
**Project No. 2203244**

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GEI Consultants (GEI) was retained by the City of Barrie (the Client) to complete a geotechnical investigation and report for the proposed Fire Station 6 development at 845 Maplevue Drive East, in the City of Barrie.2023. The report is referenced below:

- “*Geotechnical Investigation - Proposed Barrie Fire Station 6 Development, 845 Maplevue Drive East, Barrie, Ontario*”, Project Number: 2203244, dated November 8, 2022, by GEI.

Subsequent to issuance of the geotechnical report, a concrete pavement apron is being proposed for the station on both sides of the station where the trucks enter/exit the building. The apron will be about 9.6 m wide and will extend out from the building about 15 m.

A concrete pavement design has been requested for the project and is provided below.

With a building floor slab elevation of Elev. 255.3, the pavement subgrade will comprise the in-situ fill comprised of silty sand and sandy silt. For the concrete apron, the heavy-duty pavement granular material thicknesses, provided in the geotechnical report are recommended.

The following parameter are recommended for the concrete pavement (assumes concrete pavement does not have curbs surrounding the extents):

- Concrete Strength :32 MPa or greater;
- Concrete Thickness: 230 mm;
- Joint spacing: cut at 4.5 m centers or less;
- Wire mesh is to be included to aid with mitigation of cracks.

We trust this information is sufficient for your present purposes. Should you have any questions concerning the above, or can be of any further assistance, please do not hesitate to contact the undersigned.

Yours truly,  
**GEI Consultants**



A handwritten signature in blue ink, appearing to read "G. White", positioned above a horizontal line.

Geoffrey R. White, P.Eng.  
Barrie Office Branch Manager and  
Senior Geotechnical Engineer