

re: **Geotechnical Response to City Comments**
Proposed Multi-Storey, Mixed-Use Building
289 Carling Avenue - Ottawa

to: PBC Group - **Mr. Jonathan Roy** - jroy@pbcgroup.ca

date: February 12, 2020

file: PG4801-MEMO.04

Paterson Group (Paterson) prepared the following memo to provide our responses to the geotechnical-related comments issued on February 7, 2020 and prepared by Mr. Mark Fraser at the City of Ottawa.

Geotechnical Investigation - Comment 1

Comment: *The USF elevation is identified as 69.45 m on the plans. The foundation drainage system thus is anticipated to be located below the groundwater table based on the measured groundwater levels recorded on November 29, 2019. Please confirm the USF elevation and the anticipated groundwater discharge to the sewer as the system.*

Response: The foundation drainage does not need to match the USF elevation, and only needs to be located with the inverts 300 mm below the bottom of slab, which would correspond to approximate geodetic elevation 71.55 m. This foundation drainage invert elevation will be located above the groundwater table, which was measured at approximate geodetic elevation 70.9 m to 71.4 m, and will also be sufficient to intercept any groundwater or stormwater before it can infiltrate into the below-grade space of the proposed building during a storm event.

Therefore, only periodic flows of up to 50 L/min are anticipated to be discharged from the foundation drainage system during storm events.

We trust that this information satisfies your immediate requirements.

Paterson Group Inc.



Scott S. Dennis, P.Eng.

