

re: Geotechnical Assessment
Foundation Replacement for Existing Building
133 Catherine Street - Ottawa

to: Mr. Tony Sharasebi - info@capitalparking.ca

date: September 18, 2020

file: PM12762-MEMO.01

Further to your request, a site visit was made on September 17, 2020 to assess the bearing medium for new footings that have been constructed for the support of the existing building. It is our understanding that the original stone foundation for the building had failed and was therefore replaced with a new foundation walls comprised primarily of cast-in-place concrete. Based on photos observed, the new footings and foundation walls were constructed in sections. New concrete foundations were also constructed for stairwells on the east side of the building. It is our understanding that the stairwells will be heated.

The basement floor had not been constructed yet in the basement of the main building or in the southeastern stairwell area. In this regard, the footing/soil interface was examined at approximately 8 locations in the main basement and 2 locations in the southeast stairwell. At those locations checked, the footing was found to be underlain by very stiff silty clay. A hand auger hole was put down adjacent to the east wall footing at 3 m north of the southeast corner of the main basement. The hand auger hole terminated in very stiff silty clay at a depth of 1.2 m below the underside of footing. Water was not encountered in the hand auger hole.

Based on our observations, the very stiff silty clay bearing medium can be taken to have an allowable bearing pressure in excess of the **75 kPa** that was used for design purposes.

We trust that this information satisfies your immediate requirements.

Paterson Group Inc.



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