PATERSON GROUP

memorandum

re: **Geotechnical Recommendations – Pavement Structure Above Podium Deck**
Proposed Residential Development
729 to 753 Ridgewood Avenue - Ottawa

to: Brigil - **Mr. Philip Thibert** - Pthibert@Brigil.com
date: July 4, 2022
file: PG5172-MEMO.03

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide geotechnical recommendations regarding the pavement structure to be used overlying the underground parking structure. The memorandum should be read in conjunction with Paterson Report PG5172-1 Revision 1 dated June 21 , 2021.

The pavement structures provided in Tables 1 and 2 below are recommended where the proposed pavement structure is to be located overlying the concrete podium deck.

Table 1 - Recommended Asphalt Pavement Structure - Access Lanes/Heavy Loading Parking Areas

Thickness (mm)	Material Description
40	**Wear Course** - Superpave 12.5 Asphaltic Concrete
50	**Binder Course** - Superpave 19.0 Asphaltic Concrete
150	**BASE** - OPSS Granular A Crushed Stone
SUBGRADE – protection board and/or rigid insulation over concrete podium deck	

Table 2 - Recommended Asphalt Pavement Structure - At-Grade Parking Areas

Thickness (mm)	Material Description
50	**Wear Course** - Superpave 12.5 Asphaltic Concrete
150	**BASE** - OPSS Granular A Crushed Stone
SUBGRADE – protection board and/or rigid insulation over concrete podium deck	

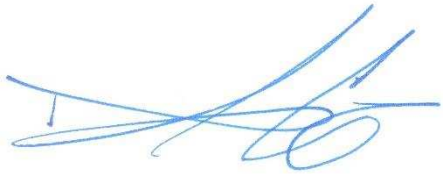
Minimum Performance Graded (PG) 58-34 asphalt cement should be used for this project. The pavement granular base and subbase should be placed in maximum 300 mm thick loose lifts and compacted to a minimum of 99% of the material's SPMDD using suitable vibratory equipment.

We trust that the current submission meets your requirements.

Best Regards,

Paterson Group Inc.

Kevin A. Pickard, EIT



David J. Gilbert, P.Eng.