

Appendix G



MEMO

TO: Mr. Paul Barrett, MCIP, RPP
Senior Planner
Planning Services, Town of Oakville

FROM: Jeff King, P.Eng.

SUBJECT: Tunnel Between Parking Garages - Oakville Green
15M-00146-02

DATE: February 4, 2019

A Tunnel to connect the underground parking garages of the Hotel / Conference Centre and the Medical Building is proposed at the P3 level under Street A east of Third Line. This tunnel will be approximately 8.0m below the grade of Street A. The existing storm sewer as well as the proposed future sewers, watermain and utilities under Street A have maximum expected depth of approximately 4.0m and therefore would not conflict with the tunnel at the P3 level.

The attached Conceptual Plan Profile Drawing for Street A shows the tunnel in both plan and cross section which illustrates this clearance.

At this depth the expectation is that the tunnel will be constructed by mining under Street A between the parking garages and therefore not impact the existing storm sewer.

Due to the cover over the tunnel, municipal services and utilities will be installed above the tunnel. There will not be a need to have municipal services or utilities within or below the tunnel, therefore, there should be no concern related to the impact of ruptured or leaking municipal services within or below the tunnel.

Standard building waterproofing techniques used on the adjacent parking garages will also be applied to the tunnel to ensure that it is water tight as it will be at or below or water table.

In the scenario where the watermain on Street A above the tunnel were to rupture, the tunnel's water proofing would protect the tunnel from any additional water that seeped downwards through fissures in the bedrock.

A handwritten signature in black ink, appearing to read 'Jeff King'.

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