



October 24, 2023

Via: Email

**The City of Barrie
70 Collier Street
Barrie, ON
L4M 4T5**

**Attention: Donson Chan, P.Eng.
Transportation Engineer, Transportation Planning**

**Re: 500 Salem Road Subdivision
Transportation Mitigation Measures
City File D30-008-2023
WMI File No.: 21-652**

Dear Donson,

In reference to the Traffic Impact Brief for the 500 Salem Road Subdivision prepared by WMI & Associates Limited dated September 29, 2022, and the subsequent OPA/ZBA review comments produced by the City's Transportation Planning department dated April 6, 2023, it is identified that a sight-distance deficiency exists at the proposed Street 'A' and Salem Road intersection.

Through collaboration with City of Barrie staff, it has been identified that the long-term solution is through the reconstruction of Salem Road. When this occurs, Salem Road will have a re-designed road profile that will provide an acceptable sight distance at the subject intersection. However, mitigation measures are required in the interim to address the sight-distance concerns associated with existing road conditions in order to accommodate the proposed subdivision, should it be developed prior to the planned reconstruction of Salem Road.

The following mitigation measures are proposed to be implemented into the detailed design of the subdivision, to the satisfaction of the City of Barrie, to address the sight-distance deficiency associated with the current (existing) condition of Salem Road:

- Streetscaping- clearing brush, tall vegetation, and other roadside obstacles within the existing right-of-way will establish a large clear zone and thereby improve driver visibility.
- Speed reduction- lowering the current speed limit on the major road (Salem Road) will slow vehicles and thereby lessen the sight-distance hazard.
- Advanced warning signage- erection of an intersection warning sign (WB-13A) directed to westbound drivers on Salem road will warn drivers of the upcoming intersection hazard.

- Flashing Beacon- the installation of an overhead Intersection control beacon with flashing amber indicators would provide additional warning to drivers on Salem Road of the upcoming intersection and the need to slow and exert caution on approach.

The existing sight-distance from the proposed intersection location looking eastward along Salem Road to oncoming traffic is estimated as 80m, whereas the minimum required stopping sight-distance is 145m for an 80km/hr design speed. The proposed mitigation measures intend to improve the safety and visibility of the intersection in the interim until such time that Salem Road is reconstructed.

All proposed mitigation measures would be implemented in accordance with City of Barrie infrastructure design guidelines, Transportation association of Canada Geometric Design Guidelines for Canadian Roads, and /or the Ministry of Transportation's Ontario Traffic Manual, as appropriate.

Should you have any questions or require additional information, please contact the undersigned.

Yours truly,

WMI & Associates Limited



Jonathan Reimer, P. Eng.

cc. Justin MacDonald, City of Barrie
Tyler Kwall, Innovative Planning Solutions
Tim Gilman
Adam Steeves