

March 23, 2017

**VIA E-MAIL TO:** [evanp@gsai.ca](mailto:evanp@gsai.ca)

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**Re: Responses to Comments from the City of Mississauga, Old Barber House, 5155  
Mississauga Road, City of Mississauga, Ontario**

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As requested, we have reviewed the comments from the City of Mississauga dated February 6, 2017. Our latest noise report for this site is entitled, “Noise Feasibility Study, Proposed Residential Development, Old Barber House, 5155 Mississauga Road, City of Mississauga, Ontario” dated June 6, 2016. We have provided additional calculations for the OLA of Lot 21 located at the intersection of Mississauga Road and Barbertown Road. The City’s comments are italicized below and our responses follow.

- *The lot at the corner of Mississauga Road and Barbertown Road is to be analysed to determine the noise fence requirements to reduce the OLA to 55 dBA*

A new site plan (attached) dated March 22, 2017 includes minor changes. Sound level predictions for the rear yards of Unit 1 and Lot 21 have been revised since their distance from Mississauga Road has changed.

### **Outdoor Living Areas**

The predicted sound level in the rear yard of Unit 1 will be 59 dBA. The 4 dBA sound level excess is considered to be minor. Further mitigation is not recommended.

The predicted sound level in the rear yard of Lot 21 will be 57 dBA. The 2 dBA sound level excess is considered to be minor. Further mitigation is not recommended.

For the rear yards, a table of barrier heights is provided below to achieve 55 dBA, as requested by the City. The Planning Department has indicated they will choose the final heights of the barriers.

**Table 1: Summary of Barrier Heights (m) Required to Meet Various Sound Levels**

Prediction Location	Desired Sound Level (dBA)				
	55	56	57	58	59
Unit 1	2.0	--	--	--	--
Lot 21	2.0	--	--	--	--

As a general note, an acoustic barrier may be a combination of an acoustic wall and an earth berm. The wall component of the barrier should be of a solid construction with a surface density of no less than 20 kg/m<sup>2</sup>. The walls may be constructed from a variety of materials such as wood, brick, pre-cast concrete or other concrete/wood composite systems provided that it is free of gaps or cracks. The heights and extents of the barriers should be chosen to reduce the sound levels in the OLA's to below 60 dBA and as close to 55 dBA as is technically, administratively and economically feasible, subject to the approval of the municipality respecting any applicable fence height by-laws.

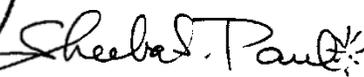
The remaining recommendations as contained in our June 6, 2016 noise report are still applicable. We trust this information is sufficient for your purposes. If you have any questions or concerns, please call.

Yours truly,

**HOWE GASTMEIER CHAPNIK LIMITED**



Victor Garcia, P.Eng



Sheeba Paul, MEng, P.Eng

