



February 15, 2023,

## NOISE STUDY ADDENDUM

1333664 Ontario Inc  
c/o Urban Solutions  
3 Studebaker Place, Unit 1  
Hamilton, ON  
L8L 0C8

Attn: Matthew LeBlanc, MPL, BA (Hons)

Our File NO: 22-2254

RE: Noise Study Addendum for 1177, 1183 & 1187 West 5<sup>th</sup> Street, Hamilton, ON

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In response to the City of Hamilton comments on dBA Acoustical Consultants Inc., Noise Study, dated June 2022, we offer the following responses.

**City Comment:** In the comments it notes that based on the commercial plazas distance separation and shielding, the rooftop HVAC units and bay doors to facilitate transport truck deliveries will not have adverse impacts on the proposed development. Staff would required some elaboration to these comments as to how there will not be any impacts as the existing townhouse development to the north provided a 2.43 noise barrier wall.

**dBA Response:** The 2.43m noise barrier wall is only along the east portion of the existing townhouse development and is required to mitigate the transport truck noise levels at the rear yard outdoor living areas (OLA's). The proposed apartment building is in excess of 130m from the commercial plaza and only a small portion of the commercial plaza is visible to the proposed apartment building, however there are not any truck bays in that portion of the plaza.

Truck Calculations:

An example of noise calculations for a standard transport truck is as follows.

1m from source ÷ 130m to proposed apartment building = (Log X 20 = -42 which in turn is calculated by 75.5 dBA truck sound level – 42 dBA = 33.5 dBA. Time calculation 10min ÷ 60min = (Log X 10) = - 7.8 dBA. Therefore 33.5 dBA – 7.8 dBA = 25.7 dBA at the east façade of the proposed apartment building. Traffic background noise is anticipated to be higher than the transport truck noise.

**City Comment:** We would recommend that 3 noise receptors be placed on the east side of the proposed building to determine any noise impacts from the commercial plaza.

**dBA Response:** The noise study has recommended that all windows, patio doors and exterior walls meet the criteria noted below in Table 6, that represents the highest noise level of 63 dBA for West 5<sup>th</sup> west façade. All other facades have lower dBA traffic noise levels; therefore, it was recommended that all windows, patio doors and exterior walls have the same STC ratings to ensure that all interior noise levels have been achieved.

TABLE 6 –Window, Door, & Wall Construction Example Requirements

LOCATIONS	Example STC Acoustically Tested	Example STC Patio Door	Exterior Walls Example
All Floors All Units	Example		
Bedroom	32	32	STC-40
Living room	32	32	STC-40

Should you require any further explanation, please contact the writer.

Respectfully submitted,  
dBA Acoustical Consultants Inc.



Frank Westaway, Owner  
Qualified Acoustical Consultant