

GRADIENTWIND

ENGINEERS & SCIENTISTS

March 27, 2023

Azure Urban Developments

463 Golden Avenue,
Ottawa, ON K2A 2E4

Attn: John Thomas
Jthomas@azureurban.com

Dear Mr. Thomas:

Re: Traffic Noise Addendum
377-381 Winona Avenue, Ottawa, ON
Gradient Wind File No.: 22-293-Addendum Letter

Gradient Wind Engineering Inc. (Gradient Wind) was retained by Azure Urban Developments to undertake a roadway traffic noise brief for the proposed six-storey mixed-use development located at 377-381 Winona Avenue in Ottawa, Ontario (*ref. GW22-293-Roadway Traffic Noise Brief, dated October 12, 2022*). This addendum letter addresses technical comments received from the City of Ottawa in February 2023. This letter is to respond to the following comments received from the City of Ottawa via e-mail correspondence in February 2023, and to provide supplemental analysis for the original roadway traffic noise brief. The comments are numbered per the numbering sequence in the e-mail correspondence.

Comment 25: *What is the posted speed limit on Richmond Road and Churchill Avenue North? When there is no posted speed limit, please use 50km/hr. for the analysis.*

Gradient Wind: Using a traffic speed of 50 kph on Richmond Road and Churchill Avenue North, compared to 40 kph, there will be a minor noise level increase of approximately 1 dB. This update will not have any impact on the conclusions of the original report, as noise levels at the plane of window will change from 61 to 62 dBA, remaining below the 65 dBA threshold. This can be demonstrated logarithmically as follows: $10 \text{ dBA} * (\log(50 \text{ kph}/40 \text{ kph})/\log 10) = 0.97 \text{ dBA}$. This has also been confirmed within the STAMSON calculations.

Comment 26: *A Stationary Noise Study will be required as a condition of Site Plan approval.*

Gradient Wind: Acknowledged.

Should you have any questions, or wish to discuss our findings further, please call us (613) 836-0934 or contact us by e-mail at joshua.foster@gradientwind.com. In the interim, we thank you for the opportunity to be of service.

Sincerely,

Gradient Wind Engineering Inc.



Michael Lafortune, C.E.T.
Environmental Scientist



Joshua Foster, P.Eng.
Lead Engineer

Gradient Wind File #22-293-Roadway Traffic Noise Brief