



February 20, 2019

Stuart Craig
Catherine Truong
RioCan Holdings Inc.
2300 Yonge Street, Suite 500
Toronto, Ontario
M4P 1E4

Dear: Mr. Craig

Re: Detailed Roadway Traffic Noise Assessment
Westgate Shopping Centre Development, Phase 1
GWE File No.: 15-067 – Cover Letter

This letter describes how we have addressed the 1st round of engineering comments received from the City of Ottawa, in their memo dated January 14, 2019 pertaining to the Detailed Roadway Traffic Noise Assessment performed for Phase 1 of the proposed Westgate Shopping Centre redevelopment in Ottawa, Ontario. Below is a summary of how each of the comments relating to the noise study have been addressed. The number sequences below are in reference to each of the numbered comments continued in the City of Ottawa's comment letter.

1: *Provide a full sized & scaled plan with distances and angles between noise sources and installed receptors as per Environmental Noise Control Guidelines – Section 3.1.1 c) – The plans provided are incomplete where they do not show the actual source locations nor are the East (Merivale Rd. & Carling Ave.) and South (Carling Ave.) receptor distances and angles provided. Refer to STAMSON data. Revise*

GWE Response: Figures displaying this information are now provided (Figure A1-A7 in Appendix A).

2. Provide detailed section of source / receptor showing height, distances etc. - Revise

GWE Response: This information can be derived from figures and Table 3.

3. Section 5.0, Table 3: Exterior Noise Levels Due to Roadway Traffic Sources - Noise Levels for night and day do not appear to correlate with the STAMSON data in Appendix A as it appears Report is missing additional STAMSON data. Please Clarify and Revise as needed.

GWE Response: Appendix A has been updated and reflects results in Table 3.

4. Regarding Indoor Living Area Mitigation Solutions, we would require detailed shop drawings and material specifications for sufficient soundproofing as identified in Table 9 in your report. Please add these criteria. Revise.

GWE Response: The requirement for information to be provided at building permit has been added to the report.

5. Provide table with receiver heights – Revise

GWE Response: Receiver heights are listed in Table 3.

6. Please confirm and show that upper floors will not be affected by reflective noise from proposed hard landscapes planned around majority of the building, nearby parking lot pavement surfaces and concrete sidewalk areas adjacent the proposed building and within the ROW. First floor level should have lower noise levels with absorptive ground surface. Verify % soft ground & % reflective surface as per ORNAMENT. Refer to Landscape Plan, Revise.

GWE Response: Section 4.2.2 has been updated to provide rationale for reflective surfaces.

7. Report does not provide investigation information and recommendations for the proposed 5th floor outdoor amenity area. If mitigation were required in regard to Outdoor Living Area Mitigation Solutions, we would also require detailed shop drawings and material specifications for sufficient soundproofing as per methods AIF or OBC (STC). Please add these criteria. Please refer to **Pedestrian Level Wind Study**, prepared by Gradient Wind Engineering Inc., dated November 6, 2018. Revise.

GWE Response: Barrier investigation has been added to the report/analysis.

8. *A stationary noise study is required to determine the affects of all proposed roof (or other level) top units for this building as this noise may subject the tenants/owners of the upper level of the residential building.*

Revise.

GWE Response: The need for a stationary noise study has been addressed within the report. Once the mechanical information is more known, this type of study would be conducted prior to building permit.

9. *Ensure STAMSON data is provided in printed copy of Report for our review for at least the first submission and also for any subsequent revisions that require additional modeling and/or recalculations whereby revised STAMSON data is needed. Otherwise, Report will be deemed incomplete.*

GWE Response: Entirety of Appendix A is included in printed hardcopies of the report.

Should you have any questions, or wish to discuss our findings further, please call me at (613) 836-0934, or contact us by e-mail.

Sincerely,

Gradient Wind Engineering Inc.

A handwritten signature in black ink that reads "Josh Foster".

Joshua Foster, P.Eng
Principal
GWE15-067 – Cover Letter