



January 28, 2019

Stuart Craig
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Re: Response to 1st Engineering Comments for Wind Study
Westgate Shopping Centre Redevelopment, Phase 1
GWE File Ref.: 16-139

This letter describes how we have addressed the 1st round of engineering comments received in the City of Ottawa, in their correspondence dated January 14, 2019 pertaining to the pedestrian level wind study performed for Phase 1 of the Westgate Shopping Centre redevelopment. Below is a summary of how each of the comments relating to the wind study have been addressed. The number sequences and text in bold below are in reference to each of the numbered comments continued in the City of Ottawa's correspondence.

1. Under Executive Summary & Page 1- Introduction: The report has been prepared under industry standard. The City has its own Wind Analysis Guidelines. Please make sure that the prepared report also meets city guidelines and mention this in this section.

GWE: The report has been prepared as per the *City of Ottawa Terms of Reference: Wind Analysis* (see Page 2 of report.)

2. Provide CFD computer model input and results in correlation with wind reference locations A-E as well as calculations and type of software used in report. Revise.

GWE: Methodology section of report has been updated to include the requested information.

3. Provide Table of data input and results including all relevant information and boundary conditions. Revise.

Methodology section of report has been updated to include the requested information.

4. Provide Atmospheric Boundary Layer (ABL) information and input into your modeling. The report does not speak to this method as part of the modeling. Revise.

GWE: This information is included in Appendix A.

5. Considering the possibility of phased development on this site and allowances as per City of Ottawa, Zoning By-Law (as amended) this study should reflect any affects from these future developments that may alter the overall results and conditions relative to pedestrian comfort.

GWE: Effects of future development phases was considered in a previous Pedestrian Wind Study for the Westgate Shopping Centre Redevelopment. Please refer to GWE Report #15-067 – CFDPLW, dated October 28, 2015.

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

Yours truly,

Gradient Wind Engineering Inc.

A handwritten signature in black ink, appearing to read 'A. Sliasis', is written over a light yellow rectangular background.

Andrew Sliasis, M.A.Sc.
Project Manager

GWE15-067