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Planner

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**Re: 1842 King Street East
Hamilton, ON
Pedestrian Wind Assessment
RWDI Project #2004825**

Dear Scott:

Rowan Williams Davies & Irwin Inc. (RWDI) has prepared this letter to comment on the potential wind effects that may be caused by the recent design changes to the proposed development at 1842 King Street East in Hamilton, Ontario.

For the proposed project, a wind assessment was conducted by RWDI in 2021 to predict pedestrian wind comfort and safety conditions. Our findings were summarized in the latest report submitted to you on October 1, 2021. Due to several positive design features and the project location, wind speeds on and around the site were expected to meet the wind safety criterion and no significant wind impact was predicted on the surrounding areas. Suitable wind conditions were expected in the summer and winter seasons for most pedestrian areas. However, wind speeds around the exposed tower corners might become uncomfortable in the winter months. Higher-than-desired wind speeds were also expected along the south portion of the pedestrian mews, and at the exposed tower entrances in the winter. Conceptual wind control solutions were discussed in the report.

The most recent design drawings received by RWDI on January 17, 2022, indicate the current design has the same building layout as before and it includes four L-shaped buildings and four townhouses – see site plans (Image 1) on the next page for comparison. There is no change to the height of the 4-storey townhouses. For the four L-shaped buildings, however, the total height has been increased from 12 to 13 storeys, and there are some minor increases or decreases to the heights of the stepped roofs of these buildings.



From the wind impact perspective, these height changes are insignificant. It is our opinion that the conclusions and recommendations in the October 1, 2021, report are still applicable.

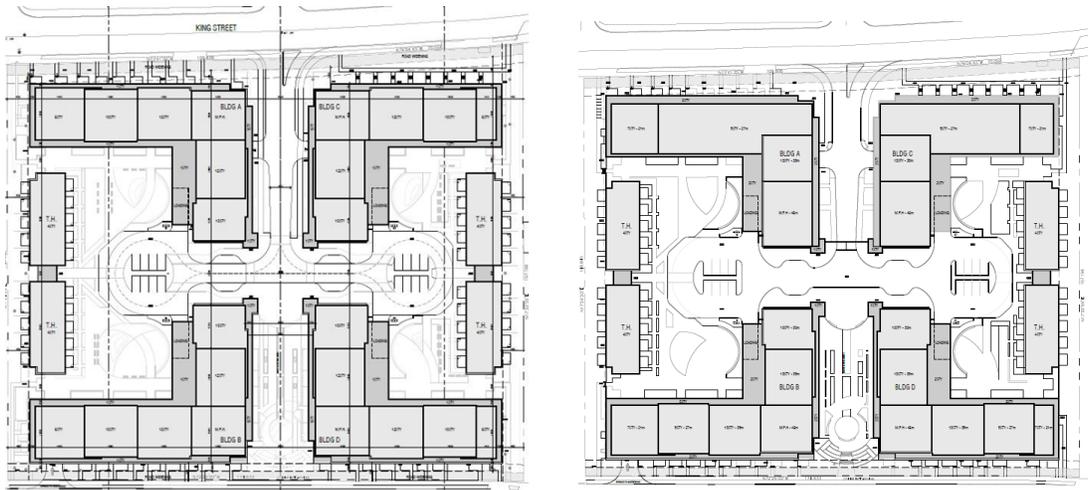


Image 1: Site plans used in the 2021 report (left) and received by RWDI on January 17, 2022 (right)

In addition, physical model testing has been scheduled in RWDI's wind tunnel for February 2022 to confirm these wind predictions and to determine the need and extent of wind control measures.

We trust the above discussion satisfies your current requirements. Should you have any questions or require additional information, please do not hesitate to contact us.

Yours truly,
RWDI

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Senior Technical Director / Principal

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