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20 January 2020
Project: 170176

Mark Bales
Carriage Gate Homes
2069 Lakeshore Road
Burlington, ON L7R 1E2

Dear Mr. Bales:

**RE: PROPOSED REDEVELOPMENT OLD LAKESHORE ROAD, BURLINGTON
ONTARIO – CITY OF BURLINGTON TRANSPORTATION COMMENTS**

In November 2019, Paradigm Transportation Solutions Limited (Paradigm) prepared a Transportation Impact Study, Parking Study and Transportation Demand Management Report¹ for the above noted development. Since submission of the study, City of Burlington Staff have provided comments on the Transportation Impact Study in a letter dated 09 January 2020.

This letter provides additional information and responds to the Transportation Planning comments. For ease of review, each comment is copied below followed by our response/clarification to the comment.

City Comment #3

Please revise the Transportation Impact Study completed by Paradigm Transportation Solutions to provide current traffic counts for Lakeshore Road & Martha Street as well as Lakeshore Road & Old Lakeshore Road and amend the study conclusions according to the revised counts. Traffic counts in the existing report were completed in August 2019. Counts prepared during school holidays are not acceptable to the City of Burlington.

The scope of work for the TIS was established based on twofold. The first part consisted of relying on Halton Region Traffic Impact Study Guidelines² to provide for a general requirement of the study. These guidelines do not prohibit the use of summer counts. The second part consisted of supplying a detailed work plan to the City of Burlington in August 2019 which

¹ 170176: Old Lakeshore Road, Transportation Impact Study, Parking Study & TDM Report, Paradigm Transportation Solutions Limited, November 2019

² Halton Region, Transportation Impact Study Guidelines, January 2015.

received approval. The City did not identify that counts completed in August would not be accepted.

As the study commenced during August 2019, new counts were required to be undertaken. To quantify the seasonal variation of summer traffic volumes the August 2019 traffic volumes were increased through the use of a seasonal variation factor. Back-up calculations to support these adjustments are documented in TIS and are further summarized herein.

The traffic data collected for this project was obtained during the months of April, August and November. To quantify the seasonal variation of summer traffic volumes along Lakeshore Road, summer and fall traffic data at the intersections of Lakeshore Road at Pearl Street were compared. **Table 1** summarizes the comparison.

TABLE 1: SEASONAL COMPARISON

Intersection	Peak Hour	Total Intersection Traffic Volume		
		2017 Summer Count	2018 Fall Count	Difference
Lakeshore Road at Pearl Street	AM	1,339	1,516	+ 13.2%
	PM	1,556	1,570	+ 0.9%

Comparison of the volumes indicates that the weekday AM peak hour volumes are 13% higher during Fall than Summer. During the weekday PM peak hour, no significant seasonal fluctuation occurs along Lakeshore Road. To present a conservative analysis, traffic data collected during the month of August were increased by 15 percent for the weekday AM peak hour to reflect non-summer month conditions.

In addition to applying a seasonal variation factor, volume balancing was applied to the study area intersections to eliminate traffic volume fluctuations between the intersections. The Lakeshore Road and Pearl Street intersection was utilized as the reference intersection for “balancing” as turning movement counts were collected during the fall of 2018. This provides a further level of refinement to ensure the volumes along the study area roadways are indicative of typical volumes.

Lastly, Paradigm has reviewed a number of recent development applications and their corresponding Traffic Impact Studies completed in the City of Burlington. The following Traffic Impact Studies that were accepted as part of the application submission used traffic data completed during the summer months. Considering this precedent, the City has accepted the use of summer month traffic data and has accepted the use of this data without any seasonal variation factor applied:



- ▶ 441 Maple Avenue (Ward 2), Traffic Impact Study completed by C.F. Crozier & Associated, December 2018
 - Traffic data collected in August 2018
 - No seasonal factor applied.

- ▶ 1161-1167 North Shore Boulevard (Ward 1), Traffic Impact Study completed by IBI Group, September 2018
 - Traffic data collected in July 2018
 - No seasonal factor applied.

- ▶ 1511 Old Plains Road West (Ward 1), Traffic Impact Study completed by Paradigm, March 2018.
 - Traffic data collected in July 2017
 - No seasonal factor applied.

Given the proposed data collected for the Old Lakeshore Road TIS utilized a seasonal variation factor and the volume have been balanced to ensure the volumes along the study area roadways are indicative of typical volumes, the traffic data used in the November 2019 study provide a reasonable and valid representation of average peak season conditions.

We trust that this information is responsive to the comments that were raised from the City of Burlington concerning their review of the November 2019 study prepared in support of this development. If you should have any questions or would like to discuss our responses in more detail, please feel free to contact us.

Yours very truly,

PARADIGM TRANSPORTATION SOLUTIONS LIMITED



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