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RZ-23-0001, VC-23-0002, VC-23-0003

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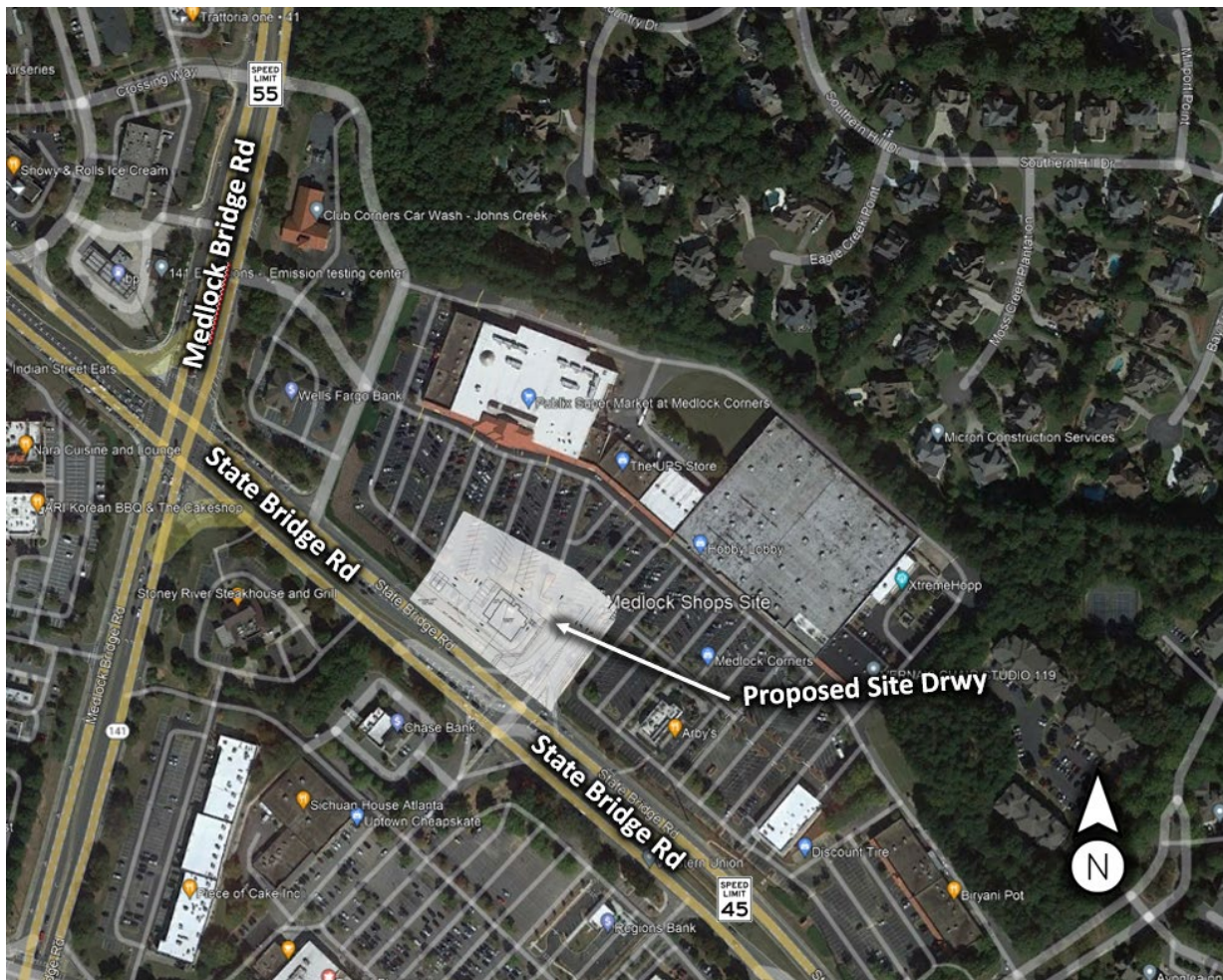
**Memorandum**

To: Willow Capital Partners  
 From: Abdul Amer, PE  
 Date: January 6<sup>th</sup>, 2023 – Revised March 9<sup>th</sup>, 2023.  
 Subject: Trip Generation Memorandum for a proposed fast-food restaurant with a drive-through window development on State Bridge Road at Medlock Bridge Road, Johns Creek, Georgia | A&R 23-003.

The purpose of this memorandum is to estimate the trip generation that will result from the proposed fast-food restaurant with a drive-through window development on State Bridge Road in the parking lot of Medlock Corners Shopping Center in Johns Creek, Georgia. The location of the development is shown below. The proposed development will consist of:

- Fast food restaurant with a drive-through window: 3,500 sf

The fast-food restaurant with a drive-through window will have one full access driveway on to Medlock Corners shopping center driveway.





**METHODOLOGY**

Trip generation estimates for the project were based on the rates and equations published in the 11th edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. This reference contains traffic volume count data collected at similar facilities nationwide. The trip generation referenced is based on the following ITE Land Uses: 934 – *Fast-food restaurant with drive-through window*.

Land Use: 934 – Fast-Food restaurant with drive-through window: This land use includes any fast-food restaurant with a drive-through window. This type of restaurant is characterized by a large drive-through and large carry-out clientele, long hours of service (some are open for breakfast, all are open for lunch and dinner, some are open late at night or 24 hours a day) and high turnover rates for eat-in customers.

**TRIP GENERATION**

The results of the analysis for the proposed development are shown in Table 1, below.

TABLE 1 – TRIP GENERATION FOR PROPOSED DEVELOPMENT									
Land Use	Size	AM Peak Hour			PM Peak Hour			24 Hour	
		Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
ITE 934 – Fast-food restaurant with drive through window	3,500 sf	0*	0*	0*	60	56	116	818	818
Pass-by Trips (50%) 55%		0	0	0	-33	-31	-64	-320	-320
<b>Total Trips Without Reductions</b>		0	0	0	60	56	116	818	818
<b>Total Trips with Reductions</b>		0	0	0	27	25	52	498	498

\*Based on the information provided by Willow Capital Partners, the restaurant Shake Shack opens for business from 11am and therefore, AM peak hour trips are shown as zero.

Based on trip generation rates published in the Institute of Transportation Engineer’s Trip Generation Manual, 11th edition, and considering the fact that the restaurant does not generate any trips in the AM peak hour, the proposed restaurant development will generate 0 new external two-way trips in the AM peak hour, 52 new external two-way trips in the PM peak hour, and 996 new external two-way trips in a 24-hour duration.

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