



April 16, 2025

Meredith Gruber
Town of Rolesville
211 S. Main Street
Rolesville, NC 27571

Reference: Chapel Hill Tire – Rolesville, NC

Subject: Trip Generation Letter

Dear Mrs. Gruber:

This letter provides an estimate of the trip generation comparison for the proposed Chapel Hill Tire project to be located south of S. Main Street and west of Wall Creek Drive in Rolesville, North Carolina. The proposed development is expected to replace the current Greenway Beer and Wine store. The development is proposed to consist of a 6,000 square foot tire store with 8 service bays.

Trip Generation:

Average weekday daily trips, weekday AM peak hour trips, and weekday PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 11.1 Edition. The following table provides a summary of the trip generation potential.

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weekday AM Peak Hour Trips (vph)		Weekday PM Peak Hour Trips (vph)	
			Enter	Exit	Enter	Exit
Drinking Place (975)	4,000 s.f.	--	--	--	30	15
Tire Store (848)	6,000 s.f.	166	10	6	10	13
Total Difference in Trips			10	6	-20	-2

It is estimated that the proposed development will generate approximately 166 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 16 trips (10 entering and 6 exiting) will occur during the weekday AM peak hour and 23 trips (10 entering and 13 exiting) will occur during the weekday PM peak hour.

The land use code Tire Store (LUC 848) was chosen as it most accurately reflects the proposed Chapel Hill Tire development. Other land use codes were considered such as Automobile Care Center (LUC 942) and Automobile Parts and Service Center (LUC 943); however, the Tire Store is expected to generate the most conservative amount of traffic and was therefore chosen as the LUC for the purposes of this study.

The land use code Drinking place (LUC 975) was chosen as it most accurately reflects the existing land use. Other land use codes were considered such as Wine Tasting Room (LUC 970) and Brewery Tap Room (LUC 971); however, the Drinking Place is expected to generate the most conservative difference between the existing land use and the proposed development and was therefore chosen as the LUC for the purposes of this study.

TIA Determination:

It should be noted that the typical threshold for NCDOT to require a TIA is 3,000 trips per day, which this development is anticipated to generate significantly less than. The Town of Rolesville (Town) threshold to require a TIA is 50 or more peak hour trips during the weekday AM or PM peak hours or 500 or more trips per day, which this development is significantly less than. Given this assumption, a TIA is not expected to be needed.

Findings and Summary:

Based on the trip generation results, it is expected that the proposed Chapel Hill Tire will have minimal impact on the surrounding roadway network. The peak hour trip generation potential for this proposed development is expected to be under the typical threshold for NCDOT and Town to require a TIA.

If you should have any questions, please feel free to contact me at (919) 872-5115.

Sincerely,

Caroline Cheeves, PE
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