



ATTACHMENT 4: TRANSPORTATION AND SCHOOL IMPACTS

This attachment provides a summary of the potential impacts on the transportation system and schools.

1. Transportation Impacts

Terry Road and Guess Road are the major roads impacted by the proposed change. There are no scheduled City of Durham or NCDOT roadway improvement projects in the area.

Table 1: Existing Roadway Characteristics		
Affected Segment	Terry Road	Guess Road
Type of Roadway	2-lane undivided city/county class II arterial without left-turn lanes	2-lane undivided city/county class I arterial without left- turn lanes
Current Roadway Capacity (LOS D) (AADT)*	11,800	14,200
Latest Traffic Volume (AADT)**	Unavailable	12,000

Source of LOS Capacity: FDOT Generalized Level of Service Volume Table 4-1 (2012)

Source of Trip Generation: ITE Trip Generation Manual, 10th Edition

Source of Latest Traffic Volume: 2019 NCDOT Traffic Count Map

Table 2, below, shows the projected vehicle trips generated under the proposed rezoning compared to the present zoning designation.

Table 2: Traffic Generation	
Traffic Generated by Present Designation (average 24 hour)*	*2,672
Traffic Generated by Proposed Designation (average 24 hour)**	**1,314
Impact of Proposed Designation	-1,358

*Assumption- (Max Use of Existing Zoning) – PDR 2.500: Per TIA - 279 single family homes

**Assumption- (Max Use of Proposed Zoning) – RR: 129 single family lots

Transit Impacts

Transit service is not currently provided within one-quarter mile of the site.

2. School System Impacts

Durham Public Schools serving the area are: Little River Elementary, Carrington Middle, and Northern High. Table 3 provides a summary of the current building capacity for the elementary, middle and high schools, as well as the current enrollment and the available capacity.

Table 3: School Enrollment and Capacity Figures			
	Elementary School Students	Middle School Students	High School Students
Current Building Capacity	15,047	7,779	10,500
Maximum Building Capacity (110% of Building Capacity)	16,552	8,557	11,550
20th Day Attendance (2019-2020 School Year)	15,045	7,311	10,354
Committed to Date (October 2016-September 2019)	121	25	(28)
Available Capacity	1,386	1,221	1,224

As shown in Table 4, there would be a decrease of 52 school aged child based upon the proposed zoning district buildout.

Table 4: Number of Projected Students Under Rezoning			
	Elementary School Students	Middle School Students	High School Students
Potential Students Generated – Current Zoning*	42	22	32
Potential Students Generated – Proposed Zoning**	19	10	15
Impact of Proposed Zoning	-23	-12	-17