



## ATTACHMENT 8: SUMMARY OF DEVELOPMENT IMPACTS

This attachment provides a summary of the potential infrastructure impacts associated with the proposed request in terms of how it affects the transportation system and schools.

### 1. Transportation Impacts

NC-751 and Fayetteville Road (SR 1118) are the major roads impacted by the proposed zoning change. Table 1 below provides a description of each affected segment, its roadway characteristics, current roadway capacity and the latest traffic volumes.

<b>Table 1: Existing Roadway Characteristics</b>		
<b>Affected Segment</b>	NC-751	Fayetteville Road
<b>Type of Roadway</b>	2-lane undivided class I arterial without left-turn lanes	2-lane undivided class I arterial without left-turn lanes
<b>Current Roadway Capacity (LOS D) (AADT)*</b>	14,200	12,800
<b>Latest Traffic Volume (AADT)**</b>	11,000	7,800

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

Source of Latest Traffic Volume: 2016 NCDOT Traffic Count Map

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

<b>Table 2: Traffic Generation</b>	
<b>Traffic Generated by Present Designation (average 24 hour)*</b>	*379
<b>Traffic Generated by Proposed Designation (average 24 hour)**</b>	**358
<b>Impact of Proposed Designation</b>	-21

\*Assumption (existing zoning) – RR: 33 single-family lots

\*\*Assumption (proposed zoning) – RS-20: 31 single-family lots

Transit service is not presently found within 0.25 miles of the subject site.

## 2. School System Impact

Durham Public Schools serving the area are Creekside Elementary, Githens Middle, and Jordan 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	16,218	7,871	10,433
Maximum Building Capacity (110% of Building Capacity)	17,840	8,658	11,476
20 <sup>th</sup> Day Attendance (2016-2017 School Year)	15,737	6,764	10,576
Committed to Date, Based on Recent Approvals (October 2013-September 2016)	365	177	200
Available Capacity	1,738	1,717	700

As shown in Table 4, the proposed zoning is estimated to have no impact on student demand.

Table 4: Number of Projected Students Under Rezoning			
	Elementary School Students	Middle School Students	High School Students
Potential Students Generated – Current Zoning*	5	3	4
Potential Students Generated – Proposed Zoning**	5	3	4
Impact of Proposed Zoning	0	0	0

\*Assumption (existing zoning) – RR: 33 single-family lots

\*\*Assumption (proposed zoning) – RS-20: 31 single-family lots

## 3. Summary

The proposed RS-20(D) district and associated development plan is consistent with *Comprehensive Plan* policies regarding the infrastructure impacts of the transportation system and schools.