



**CITY OF DURHAM | DURHAM COUNTY  
NORTH CAROLINA**



**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, utilities (water, sewer systems, and stormwater) and schools.

**1. Transportation Impacts**

Interstate-85 (I-85) and Red Mill Road 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>	<b>Interstate-85</b>	<b>Red Mill Road</b>
<b>Type of Roadway</b>	4-lane freeway	2-lane undivided city/county class I arterial without left-turn lanes
<b>Current Roadway Capacity (LOS D) (AADT)*</b>	77,900	11,900
<b>Latest Traffic Volume (AADT)**</b>	50,000	5,500

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

Source of Latest Traffic Volume: 2015 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>	*1,348
<b>Traffic Generated by Proposed Designation (average 24 hour)**</b>	**2,023
<b>Impact of Proposed Designation</b>	+675

\*Assumption (existing zoning) – CN: Convenience Store with eight fueling positions

\*\*Assumption (proposed zoning) – CG(D): Convenience Store with 12 fueling positions

No transit service is provided within 0.25 miles of the subject site.

**2. Utility Impacts**

This site is served by city water and sewer. No new connections are proposed and no impacts on the water/wastewater system have been identified at this time.

**3. School System Impact**

The zone change request, from CN to CG(D), would have no impact on the public school system.

**4. Summary**

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