

Section 5

SUMMARY AND RECOMMENDATIONS

The study included the collection of traffic data, generation of traffic volumes for the proposed site, and development of projected traffic volumes with normal growth with and without the proposed development of the site. Analysis of the resulting traffic projections were conducted to determine the capacity and levels of service for the site access. This study developed measures necessary to mitigate any identified adverse traffic impacts including improved roadway geometrics and traffic control devices within the environs of the proposed development.

The analysis indicates that acceptable levels of service will be maintained at the site access points and study intersections. While no roadway improvements are required to mitigate the proposed development, long-range planning should include capacity enhancements at the Highway 411 and Calderwood Highway (US 129) intersection, specifically the addition of southbound dual left-turn lanes to accommodate area-wide growth. Existing northbound through-movement queues on Highway 411 are already substantial and are expected to increase for all approaches and turning movements under future traffic conditions, regardless of the proposed development.

With the development of the proposed subdivision, the recommendations are as follows:

Minimize landscaping, using low growing vegetation, and signing at the proposed street accesses to ensure that safe sight distance is provided. The access to Highway 411 should maintain an intersection 500-foot line of sight or a minimum stopping sight distance of 360 feet.

Intersection and access design should conform to the recommended standards and practices of the Tennessee Department of Transportation, American Association of State Highway and Transportation Officials, the Institute of Transportation Engineers, and the Blount County Engineering. With the above recommendations, the site impact of this proposed subdivision can be mitigated.