

Summary and Conclusion

This analysis has been conducted based on the scope given by NCDOT and Town of Boone. We have identified all areas of deficiency and made recommendations for improvements where necessary.

The ITE trip generation indicates that based on the current site plan, the proposed Zaxby's Restaurant has a trip generation potential of 924 net trips per day. This is based on a fast food restaurant size of 3,652 square feet with drive-thru.

The recommended improvements are summarized in Table B and are illustrated in Figure 10.

In conclusion, the results of this transportation impact study indicate that with the noted improvements, the study intersections are projected to operate at acceptable level of service. The proposed Zaxby's Restaurant should not have any detrimental traffic effect on the surrounding area. We recommend that all site accesses should be constructed according to NCDOT and Town of Boone standards where applicable.

Table B- Recommended Improvement Summary

NC 105 Extension at State Farm Road	<ul style="list-style-type: none"> It is recommended that NCDOT carry out their routine signal timing program to accommodate future traffic.
NC 105 Extension at Beverly Heights Avenue	<ul style="list-style-type: none"> It is recommended the section of Beverly Heights Avenue between NC 105 Extension and the proposed site access be striped with a yellow center line to enhance safe vehicular movement travelling in opposite directions
NC 105 Extension at Site Access 1	<p>We concur with the following improvements as depicted on the site plan</p> <ul style="list-style-type: none"> Construct a right turn deceleration lane into the site access to allow improved transitions into the site's drive. Construct site access with dual exit lanes (one left turn, one right turn). This access point should be constructed according to NCDOT & Town of Boone standards.
Beverly Heights Avenue at Site Access 2	<ul style="list-style-type: none"> This access point should be constructed according to Town of Boone standards.
Pedestrian, Bicycle and Transit Accommodations	<ul style="list-style-type: none"> Coordination with the Town of Boone staff will be needed to determine which pedestrian accommodation will be feasible. In order to accommodate bicycling activities to and from Zaxby's Restaurant, we concur with providing bike rack near the entrance of the proposed restaurant as shown on the site plan. <i>AppalCart</i> provides transit service in the Town of Boone. <i>AppalCart</i> currently runs the Orange and State Farm routes which provides service on NC 105 Extension. There is an existing <i>AppalCart</i> stop at the south-east quadrant of the intersection of NC 105 Extension at Beverly Heights Avenue near Papa John's Pizza. Patrons of this development will be able to use this transit service to their destinations.