

February 12, 2024

Meredith Gruber, PLA, AICP
Planning Director
Town of Rolesville
502 Southtown Circle
Rolesville, NC 27571



RE: *W. Young Street Rezoning, Rolesville, NC – Trip Generation Analysis*

Kimley-Horn has prepared an analysis of the trip generation potential of the proposed rezoning of the properties located at 111-115 W. Young Street in Rolesville, NC. It is our understanding that the proposed rezoning would allow up to 30,000 square feet (SF) of non-residential space and up to 7 upper-floor dwelling units.

The trip generation potential of the proposed rezoning was determined using data from the 11th Edition of the ITE *Trip Generation Manual*. Trips for the non-residential space were generated as general office space (LUC 710), while the top-floor dwellings were generated as low-rise multifamily (LUC 220) as that category was identified as the closest land use provided in ITE. The trip generation potential of the land uses allowed under the proposed rezoning is summarized in Table 1 below, and trip generation calculations are attached. To be conservative, no internal capture was applied between uses even though interaction between the uses is expected.

Table 1 ITE Trip Generation (Vehicles)							
Land Use	Size	Daily		AM Peak Hour		PM Peak Hour	
		In	Out	In	Out	In	Out
Multifamily Housing, Low-Rise (LUC 220)	7 d.u.	60	60	6	19	15	9
General Office (LUC 710)	30,000 SF	204	204	52	7	10	51
Total Net New External Trips		264	264	57	27	25	60

Table 1 shows that the proposed zoning maximums would generate approximately 528 new trips on a typical weekday, with 84 new trips in the AM peak hour and 85 new trips in the PM peak hour. While these calculated trips are above the Town’s thresholds of 500 daily or 50 peak hour trips, the conservative nature of the calculations (no internal capture, potential for double-counted trips between the uses, etc.) is expected to provide conservative results.

If you have any questions, please feel free to contact me at kevin.dean@kimley-horn.com.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.

Kevin Dean, P.E.
Project Manager

W. Young Street Rezoning

Table 1 - Trip Generation

Land Use	Intensity	Daily			AM Peak Hour			PM Peak Hour		
		Total	In	Out	Total	In	Out	Total	In	Out
220 Multifamily Housing (Low-Rise)	7 d.u.	120	60	60	25	6	19	24	15	9
710 General Office Building	30,000 s.f.	408	204	204	59	52	7	61	10	51
Total Net New External Trips		528	264	264	84	57	27	85	25	60