



Memorandum

To: Planners & Engineers Collaborative+
 From: Abdul Amer, PE
 Date: December 12th, 2023
 Subject: Trip Generation Memorandum for proposed Mount Pisgah Christian School Expansion Project at 9725 Nesbit Ferry Road in Johns Creek, Georgia | A&R 23-225

The purpose of this memorandum is to estimate the trip generation that will result from the proposed Mount Pisgah Christian School Expansion Project that will be located at 9725 Nesbit Ferry Road in Johns Creek, Georgia. The expansion project will occur to the east of the existing school across from Nesbit Ferry Road and will consist of new academic buildings, faculty offices, a performing arts theatre building, and private tennis courts. Additionally, the new academic buildings will allow for the enrollment capacity of high school students to be increased by 250. The location of the proposed site is shown below.



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METHODOLOGY

Trip generation estimates for the project were based on the rates and equations published in the 11th edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. This reference contains traffic volume count data collected at similar facilities nationwide. The trip generation referenced is based on the ITE land use category 534 – Private High School.

Land Use: 534 – Private High School: A private high school serves students who have completed middle school, junior high school, or an elementary school that takes students through 8th grade. High School (Land Use 525), Private School (K-8) (Land Use 530), Private School (K-12) (Land Use 532), Charter School (K-12) (Land Use 538) are related uses.

TRIP GENERATION

The results of the site-generated traffic analysis for the proposed development are shown in Table 1 below.

TABLE 1 – TRIP GENERATION											
Land Use	Size	AM Peak Hour			Afternoon Dismissal Peak Hour			PM Peak Hour			24-Hour
		Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	Total
ITE 534 – Private High School	250 Students	130	91	221	50	78	128	19	29	48	543

Based on trip generation rates published in the Institute of Transportation Engineers Trip Generation Manual, 11th edition, the proposed Mount Pisgah Christian School Expansion Project’s increased enrollment for an additional 250 high school students will generate approximately 221 new external trips in the AM peak hour, 128 new external trips in the afternoon dismissal peak hour, 48 new external trips in the PM peak hour, and 543 new external two-way trips (271 entering/272 exiting) in a 24-hour duration.

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