



HEXAGON TRANSPORTATION CONSULTANTS, INC.

Memorandum

Date: September 15, 2014
To: Mike Tassano, City of Pleasanton
From: Brett Walinski, P.E.
Matt Nelson
Subject: Trip Generation Study for the Proposed Genius Kids Daycare in Pleasanton

Introduction

Hexagon Transportation Consultants, Inc. has completed this trip generation analysis for the proposed Genius Kids daycare facility located at 5698 Stoneridge Drive in Pleasanton, California. The project as proposed would occupy 4,626 s.f. of existing building space and serve up to 90 children and 9 employees. The current site is vacant. The site is surrounded by commercial and residential neighborhoods.

This trip generation study was conducted for the purpose of identifying the potential increase in traffic due to the proposed daycare facility. Trip generation estimates were calculated for the weekday PM peak commute hour of traffic. The PM peak commute hour is typically between 4:00 and 6:00 PM. It is during this period that the most congested traffic conditions occur on an average day.

School Operations

The specifics of the daycare facility operations were obtained from a letter provided by Genius Kids to the City of Pleasanton, dated August 6, 2014. The daycare facility would operate between the hours of 7:00 AM to 7:00 PM, Monday through Friday. The daycare will provide preschool, pre-kindergarten, transitional kindergarten, kindergarten, and tutoring services. According to the information provided in the letter, approximately 60% of the preschoolers will be part time from 9:00 AM to 2:00 PM. Some kindergarten children will be picked up from Fairlands and Donlon Elementary schools and brought to the facility in the afternoon. In addition, private tutoring will occur between 4:00 PM and 5:00 PM. Based on the proposed schedule, the daycare facility would have approximately 43 students onsite during the PM peak hour.



Trip Generation Estimates

Based on the trip rate obtained from the *Little Ivy League Daycare Facility* memo, dated April 3, 2009, the proposed daycare facility would generate 1.03 trips per student onsite during the PM peak hour. Using this rate, it is estimated that the 43 students onsite at 4:00 PM would generate 44 trips during the PM peak commute hour. The vehicle trips would consist of employee trips and of parents or caregivers briefly parking in order to assist their small children in entering or exiting the daycare facility. The average parking duration would be 3 to 5 minutes. The trip generation estimates are shown in Table 1.

**Table 1
Trip Generation Estimates**

Land Use	Size	PM Peak Hour			
		Peak-Hour Rate /a/	In	Out	Total
Proposed Use					
Day Care Center	43 students	1.03	25	19	44

/a/ PM peak hour rate obtained from Little Ivy League Daycare Facility memo, dated April 3, 2009.

Parking Demand

Based on the site's expected trip generation and number of employees, its parking demand was estimated. Between 11:00 AM and 12:00 PM, the project description states that 48 students will require pickup. Assuming the average time to pick up a student is approximately 5 minutes and applying a Poisson probability distribution to account for random arrivals, it is estimated that the site will require up to 8 parking spaces to accommodate student pick up/drop off operations. In addition, the site will require 9 parking spaces to accommodate employees and 2 spaces for its shuttle service. Thus, the total maximum parking demand is estimated to be approximately 19 vehicles. The information provided by Genius Kids indicates that 11 spaces will be available for dedicated use and a field review showed that more than 30 vacant stalls were available during the peak weekday hours of operation.