

SOLAEGUI
ENGINEERS

April 14, 2020

Ms. Amber Sosa
City of Sparks
431 Prater Way
Sparks, Nevada 89431

Re: 5 Ridges Trip Generation Review

Dear Amber:

This letter contains the findings of our trip generation review of the proposed 5 Ridges April, 2020 update. The project takes access off Highland Ranch Parkway west of the Pyramid Highway. In September, 2017 a full traffic study was completed for the project. At that time the project included 1,223 single family homes and 13 acres of mini warehouse. The current submittal includes 158 townhouses and 1,062 signal family homes. A copy of the site plan is attached.

In 2017 trip generation calculations were based on the Ninth Edition of *ITE Trip Generation*. Table 1 shows the trip generation summary from the 2017 study.

TABLE 1
TRIP GENERATION FROM THE 2017 TRAFFIC STUDY

<u>LAND USE</u>	<u>ADT</u>	<u>AM PEAK HOUR TOTAL</u>	<u>PM PEAK HOUR TOTAL</u>
Single Family Detached Housing 1,223 Dwelling Units	10,513	866	1,000
Mini Warehouse 13 Acres	461	34	46
Total	10,974	900	1,046

As indicated in Table 1, trip generation totals using from the 2017 traffic study included 10,974 average daily trips with 900 AM peak hour trips and 1,046 PM peak hour trips.

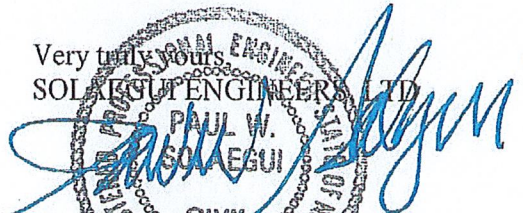
Trip generation calculations for the updated unit counts are based on the new Tenth Edition of *ITE Trip Generation*. The calculation sheets are attached for ITE land use #210 Single Family Detached Housing and #220 Multifamily Housing (Low Rise). Volumes from the fitted curve equation calculation method are utilized. The equation method was also used in the 2017 traffic study. Table 2 shows the trip generation summary for the updated unit counts.

TABLE 2
TRIP GENERATION FEBRUARY 2020 UPDATE

<u>LAND USE</u>	<u>ADT</u>	<u>AM PEAK HOUR TOTAL</u>	<u>PM PEAK HOUR TOTAL</u>
Single Family Detached Housing 1,062 Dwelling Units	9,141	759	982
Multifamily Housing (Townhomes) 158 Dwelling Units	1,154	74	88
Total	10,295	833	1,070
Comparison With 2017 Totals	-679	-67	+24

As indicated in Table 2, trip generation totals for the updated unit count include 10,295 average daily trips with 833 AM peak hour trips and 1,070 PM peak hour trips. These totals include 679 fewer average daily trips with 67 less AM peak hour trips and 24 more PM peak hour trips than presented in the original traffic study. As noted both the average daily trip total and AM peak hour trip total are less than in the 2017 traffic study. The PM peak hour trip total is an increase of only 2.2 percent. These trip totals will result in traffic impact less than or similar to what was calculated in the original traffic study.

We trust that this information will be helpful to you. Please contact us if you have questions or comments.

Very truly yours,

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Enclosures
 Letters/Five Ridges April Update Trip Generation Letter