



1100 Marion St., Suite 300
 Knoxville, Tennessee 37921
 tel: 865.963.4300
 fax: 865.524-5311

January 29, 2019

Mr. Mark A. Bialik
 GBS Engineering
 1313 Kalmia Road
 Knoxville TN 37909

RE: HARDIN VALLEY ACE HARDWARE, KNOX COUNTY, TENNESSEE.

Dear Mr. Bialik:

CDM Smith has completed its review of the above referenced site's change planned density from the previously studied 17,000 square feet to the currently proposed 18,200 square feet. The previous trip generation is presented in the Table 1 below and is from **Trip Generation, 9th Edition**, published by the Institute of Transportation Engineers. Table 2 reflects the trip generation from the most current **Trip Generation, 10th Edition** reference.

**Table 1-Trip Generation
(Dated January 2018)**

Land Use	LUC	Density (sqft)	Weekday				
			Daily	AM PEAK		PM PEAK	
				Enter	Exit	Enter	Exit
Hardware Store	816	17,000	872	11	7	39	44

Note: Trips generated using **Trip Generation, 9th Edition**, published by ITE.

**Table 2 Trip Generation
(10th Edition)**

Land Use	LUC	Density (sqft)	Weekday				
			Daily	AM PEAK		PM PEAK	
				Enter	Exit	Enter	Exit
Hardware Store	816	18,200	169	11	9	23	26
		17,000	157	10	9	21	24
Change		1,200	12	1	0	2	2

Note: Trips generated using **Trip Generation, 10th Edition**, published by ITE.





Mr. Mark A. Bialik
GBS Engineering
January 29, 2019
Page 2

From the trip generation for the current proposed hardware store, the daily trip generation is increased 12 trips, and the AM and PM peak-hour trips are increased 1 and 4 trips, respectively. This increased store density results in not more than 4 peak-hour trips which results in only 2 additional exiting trips. The difference in the trip generation for a 17,000 and 18,200 square foot hardware store is insignificant. Therefore, the additional 1,200 square feet does not have any impact on the site access and does not require any access revisions. In addition, the more current **Trip Generation** finds that the hardware store trip generation is less than that published in the 9th edition, which was used in the study submitted in January 2018, and should, therefore, confirm that the previous study remains valid for the revised site plan.

If you have any questions regarding this review, please call me.

Sincerely,
CDM Smith Inc.



John F. Gould, P.E.
Senior Transportation Engineer

Project No. 224163

