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CAPE COD
COMMISSION

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July 16, 2013

Joanna Kavalaris, P.E.
BSC Group
15 Elkins Street
Boston, MA 02127

Re: Atkins Road Subdivision – Traffic Study Parameters
Sandwich, Massachusetts

Dear Ms. Kavalaris,

Thank you for submitting the Memorandum entitled “Atkins Road Subdivision – Traffic Study Parameters” dated July 11, 2013. Cape Cod Commission Transportation staff has reviewed the document and offers the following comments.

PROJECT DESCRIPTION

As outlined in Memorandum, a subdivision is being proposed to include 23 units of single-family detached housing to be located on Atkins Road in Sandwich. Atkins Road is a local roadway with access onto the regional roadway network provided by a connection to Route 6A (Cranberry Highway).

TRIP GENERATION

As presented in the Memorandum, trip generation estimates were developed based on equations presented in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 9th Edition (2012) for Single-Family Detached Housing (ITE Land Use Code [LUC] 910). The expected increases in traffic from the project during different time periods are presented in the following table:

Table 1: Trip Generation

Time Period	Weekday Daily Trips	Weekday AM Peak Hour	Weekday PM Peak Hour	Saturday Daily	Saturday Peak Hour
Trip Generation*	272	28	29	259	29

*Based on ITE LUC 910, Single-Family Detached Housing, 23 Units



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Commission Transportation staff agrees with the assessment of trip generation for this proposed project as presented in the Memorandum.

TRIP DISTRIBUTION

As presented in the Memorandum, based on U.S. Census Bureau Journey to Work data, it was estimated that 75% of trips to/from the site on Route 6A would be from the West and 25% of trips would be from to/from the East.

Commission Transportation staff agrees with the assessment of trip distribution for this proposed project as presented in the Memorandum.

PROPOSED STUDY AREA

As presented in the Memorandum, the only location proposed to be included in the study area would be in the intersection of Route 6A and Atkins Road. While Commission Transportation staff agrees that is the only location that exceeds the 25 new peak hour trip threshold identified in Minimum Performance Standard TR1.2 (Crash Frequency at Key Locations), Commission Transportation staff suggest it would be appropriate to also include the intersection of Route 6A and Quaker Meetinghouse Road within the Study Area.

With 22 new weekday afternoon peak hour trips anticipated at this location and considering the safety and congestion issues that are well-know at this location, Commission Transportation staff suggests analysis of impacts on this location is warranted. Discussions with Town of Sandwich staff confirm concerns about this location. Determining the impact of the proposed project at this intersection will help to address concerns Commission Transportation staff anticipate would likely arise during the review process.

Please feel free to contact me with any questions regarding these comments or anything else.

Sincerely,



Glenn Cannon, P.E.
Cape Cod Commission Director of Technical Services

Cc: Steven Tupper, Cape Cod Commission Technical Services Planner
Jonathan Idman, Cape Cod Commission Chief Regulatory Officer