

## TRAFFIC MEMORANDUM

**TO:** Town of Carlisle  
Zoning Board of Appeals  
Ms. Lisa Davis Lewis, Chair

**FROM:** Jeffrey T. Bandini, P.E., PTOE, LEED Green Associate

**DATE:** February 11, 2015

**RE:** Long Ridge Road Traffic Peer Review                      Nitsch Project #10399

In October 2014, Nitsch Engineering was retained by the Town of Carlisle Zoning Board of Appeals (“the Town”) to peer review a Traffic Impact Assessment (TIA) and Grading Plan with respect to a proposed 40B Residential Development Project along Long Ridge Road (“the project”) in Carlisle, Massachusetts.

The TIA and Grading Plan was prepared for Lifetime Green Homes, LLC (“the Applicant”) and prepared by MDM Transportation Consultants, Inc (MDM). Nitsch Engineering reviewed the documents with regards to transportation impacts against transportation engineering industry standards (e.g. MassDOT guidelines, AASHTO, etc.), Town regulations (“the regulations”), and to address the Applicant’s proposed waiver requests.

On November 3, 2014, Nitsch Engineering submitted a Traffic Memorandum (“the review”) outlining the findings of the review and made several comments and recommendations pertaining to the TIA and Grading Plan. Based on the review, the following documents were subsequently submitted to the Town for follow-up review:

- “Response to Transportation Peer Review Comments”, prepared by MDM Transportation Consultants, Inc., January 30, 2015
- “Traffic Impact Assessment (TIA) Revision, Proposed 40B Residential Development, Long Ridge Road, Carlisle, MA”, prepared for Lifetime Green Homes, LLC (“the Applicant”) by MDM Transportation Consultants, Inc., January 2015
- “Residential Site Plan Set, Affordable Housing Development, “The Birches” “, prepared for Lifetime Green Homes, LLC by Meisner Brem Corporation, November 14, 2014

Nitsch Engineering offers the resulting follow-up comments:

### RESPONSE TO TRANSPORTATION PEER REVIEW COMMENTS

#### *Traffic Study*

Comment 6: Has the Applicant considered realigning the Bedford Road (Route 225) at River Road intersection such that the two roadways intersection in a “T”-type alignment? While no specific safety concern was noted with regards to past crash data, Nitsch Engineering believes the existing alignment is deficient and the Town and the project would benefit from such realignment.

#### *Waiver Requests*

Comment 1 and Comment 2: We concur with the assessment that the Town Police and Fire Departments should have input on whether or not there is an actual need for secondary access to the project. Nitsch

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Engineering recommends that the appropriate follow-up and documentation be furnished that the Town Police and Fire Departments concur that secondary access to the project is not necessary.

Comment 5: Nitsch Engineering concurs that the AutoTURN analysis is correct and that the internal roadway layout is accessible for the largest Town fire apparatus. We recommend the appropriate follow-up and documentation that the Town Police and Fire Departments concur with the design and felt that the roadway contains the proper accessibility.

*ZBA School Bus Stop Concern*

Comment 1: While this concern was not initially addressed by Nitsch Engineering, we concur with the response that interaction of buses, parent pick-up/drop-off may result only in a minor inconvenience based on the proposed design. We do, however, believe that a bus circulation plan and bus pick-up/drop-off location and schedule be furnished to the Town at the beginning of each school year and/or whenever the schedule is updated from a previous schedule to establish that bus arrival, departure and idle times will not adversely affect the interaction with parent pick-up/drop-off and adjacent roadway traffic.

**TRAFFIC IMPACT ASSESSMENT REVISION**

Nitsch Engineering offers no transportation-related comments at this time.

**RESIDENTIAL SITE PLAN SET**

Nitsch Engineering offers no transportation-related comments at this time.