



July 1, 2019

Ms. Marcia Gasses, Town Planner  
Town of Barrington  
P.O. Box 660  
Barrington, New Hampshire 03825

Subject: Map 233 / Lot 30-1A  
Driveway Review

Dear Ms. Gasses:

DuBois & King has completed a technical review of the driveway plans prepared by NH Land Consultants submitted for the above referenced project. The plan set consisted of two (2) sheets with a June 4, 2019 date. We understand the Applicant is requesting a waiver from Section 15.3.2.4 of the Barrington’s Driveway Design Regulations.

As you are aware, Section 15.3.2.4 of the Barrington’s Driveway Design Regulations states driveways shall not exceed ten percent (10%) grade and shall maintain a negative grade until the driveway is beyond the ditch line. According to Sheet 2 of 2 – Driveway Profile, the Applicant is proposing the driveway consist of a negative two percent (2%) from Thatcher Way prior to transitioning to a ten percent (10%), twelve percent (12%), and ultimately a three percent (3%) grade within the vicinity of the residential structure. Sheet 2 of 2 – Driveway Profile, also graphically illustrates a 12-inch clearance line throughout the driveway profile. DuBois & King recorded the following Barrington emergency vehicle information.

<b>Vehicle</b>	<b>Overall Length</b>	<b>Front Overhang</b>	<b>Rear Overhang</b>	<b>Wheelbase</b>	<b>Clearance</b>
A-1	22'-9"	2'-10"	6'-6"	13'-4"	11" Running Board / 10" Exhaust Pipe
A-2	22'-8"	2'-7"	6'-6"	13'-4"	10.5" Running Board / 8" Exhaust Pipe
R-1	24'-1"	2'-8"	7'-0"	14'-7"	17" Chassis
E-1	29'-9"	8'-1"	7'-10"	14'-9"	18" Running Board / 13" Exhaust Pipe
E-2	31'-4"	8'-2"	8'-0"	15'-6"	15" Running Board / 9" Exhaust Pipe
F-3	19'-7"	3'-0"	4'-11"	11'-9"	16" Chassis / 9" Exhaust Pipe
T-4	25'-6"	2'-4"	5'-7"	17'-8"	15" Chassis / 14" Exhaust Pipe

The above measurements, especially the ambulance (A-1 and A-2), demonstrates many of the Town’s emergency vehicles have clearances less than the proposed driveway grade 12-inch clearance illustrated. In addition, we are also concerned with the emergency vehicles front and rear overhangs that could potentially “bottom-out” during the driveway profile transitions. Based on this information, we do not recommend driveways steeper than ten percent (10%) as allowed by the Barrington Driveway Design Regulation.

If you have any questions or comments, please do not hesitate to contact us.

Very truly yours,  
DuBOIS & KING, Inc.

Scott M. Bourcier, P.E.  
Project Manager