

Ref: 8745

September 14, 2021

Mr. Paul McGovern
PG Construction Management, Inc.
1218 Great Plain Avenue
Needham, MA 02492

Re: Site Access Assessment
63 Country Road
Dover, Massachusetts

Dear Paul:

Vanasse & Associates, Inc. (VAI) has completed a review of lines of sight at the relocated driveway that will serve the proposed multifamily residential community to be located at 63 County Road (Route 109) in Dover, Massachusetts (hereafter referred to as the Project). This review amends the sight distance assessment that was presented in the December 2020 *Transportation Impact Assessment* (the “December 2020 TIAS”) that was prepared by VAI in support of the Project to reflect a relocation of the Project site driveway approximately 200 feet east of the prior driveway location. As currently proposed, the Project site driveway will intersect the north side of Route 109 approximately 600 feet east of Tisdale Drive.

Sight distance measurements were performed at the relocated Project site driveway intersection with Route 109 using the methodology presented in the December 2020 TIAS. Table 10R presents the measured stopping sight distance (SSD) and intersection sight distance (ISD) at the subject intersection.

Table 10R
SIGHT DISTANCE MEASUREMENTS^a

Intersection/Sight Distance Measurement	Feet		
	Required Minimum (SSD)	Desirable (ISD) ^b	Measured/Attainable
Route 109 at the Project Site Driveway			
<i>Stopping Sight Distance:</i>			
Route 109 approaching from the east	360	--	379
Route 109 approaching from the west	360	--	500+
<i>Intersection Sight Distance:</i>			
Looking to the east from the Project site driveway	360	430	117/469 ^c
Looking to the west from the Project site driveway	360	500	24/500 ^c

^aRecommended minimum values obtained from *A Policy on Geometric Design of Highways and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); 2018; and based on an approach speed of 45 mph along Route 109.

^bValues shown are the intersection sight distance for a vehicle turning right or left exiting a roadway under STOP control such that motorists approaching the intersection on the major street should not need to adjust their travel speed to less than 70 percent of their initial approach speed.

^cAvailable sight distance with the selective trimming/removal of trees and vegetation located within the sight triangle areas and the regrading of the embankment along the north side of Route 109.

As can be seen in Table 10R, with the removal of trees and vegetation located along the Project site frontage and the regrading of the existing embankment along the north side of Route 109 in conjunction with the construction of the Project, the available lines of sight at the relocated Project site driveway intersection with Route 109 can be made to exceed the recommended minimum sight distance to function in a safe (SSD) and efficient (ISD) manner based on a 45 mile per hour (mph) approach speed along Route 109, which exceeds both the measured 85th percentile vehicle travel speed (38/43 mph) and the posted speed limit (40 mph).

If you should have any questions regarding our assessment of lines of sight at the relocated Project site driveway intersection with Route 109, please feel free to contact me.

Sincerely,

VANASSE & ASSOCIATES, INC.

Jeffrey S. Dirk

Jeffrey S. Dirk, P.E., PTOE, FITE
Managing Partner

Professional Engineer in CT, MA, ME, NH, RI and VA

AJA/jsd

