



Brauer Homes

Sep 8, 2022

414 County Rd. 28
Belleville, ON
K8N 4Z7

Attn: Jamie Brauer

Re: 112 Pleasant Bay Rd, PEC – Entrance Clearances.

Three Hills Engineering Ltd. (TH) was asked to review the above property for entrance sightlines with respect to Transportation Association of Canada (TAC) design guidelines.

The speed limit is 60km/hr,
The corner has a 40km/hr warning speed,
Stopping Sight Distance (SSD) per TAC:
105m @ 60km/hr & 60m @ 40km/hr
These SSD are based on commercial trucks without ABS

West bound traffic can use 60m SSD from the corner and eastbound traffic can use 105m SSD. Based on this there is approximately 27m on the west end of the south property for a safe entrance location. We've illustrated this below note, we have added 4m for the road offset from the property line. It is our opinion that the commercial truck traffic the SSD is based on will adhere to a speed of 40km/hr or less navigating the corner. The corner radius is estimated around 25m which corresponds with a design speed closer to 30km/hr.

Sincerely,

Three Hills Engineering Ltd.
Curtis Vreugdenhil



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Figure 1

