



## STAFF REPORT ACTION REQUIRED

### Pinecone Drive - Speed Limit Reduction

<b>Date:</b>	January 4, 2007
<b>To:</b>	Etobicoke York Community Council
<b>From:</b>	Director, Transportation Services - Etobicoke York District
<b>Wards:</b>	Ward 2 – Etobicoke North
<b>Reference Number:</b>	eycc070006-to, eycc070006-to-att1

#### SUMMARY

The purpose of this report is to obtain approval to reduce the speed limit on Pinecone Drive from Humberwood Boulevard to Upper Humber Drive to 40 km/h.

As the 40 km/h Speed Limit Warrant requirements are achieved, a 40 km/h speed limit is recommended on Pinecone Drive. This limit will be posted on the entire length of the road between Humberwood Boulevard and Upper Humber Drive. Additional controls, such as an all-way stop control at Humberwood Boulevard and Pinecone Drive are not warranted or recommended.

#### RECOMMENDATIONS

**Transportation Services recommends that Council approve the following actions:**

1. The speed limit on Pinecone Drive, between Humberwood Boulevard and Upper Humber Drive be reduced from 50 km/h to 40 km/h as the requirements of the 40 km/h Speed Limit Warrant are achieved and enact any appropriate related bills.

#### Financial Impact

Type of Funding	Source of Funds	Amount
Available within current budget	Transportation Services Operating Budget	\$600.00

## ISSUE BACKGROUND

A detailed assessment of traffic operations was conducted on Pinecone Drive, in the vicinity of Humberwood Boulevard, as a result of a request from Councillor Rob Ford, Ward 2, Etobicoke North, on behalf of an area resident. A map of the area is Attachment No. 1.

## COMMENTS

Pinecone Drive is classified as a local road in the residential community south of Finch Avenue West and east of Highway No. 427. The speed limit on this road is currently an unposted 50 km/h with a sidewalk on the north side of the street. There is an all-way stop control at the intersection of Humberwood Boulevard and Topbank Drive, as well as Humberwood Boulevard and Morning Star Drive, to the north and south of Pinecone Drive respectively. A pedestrian crossover (PXO) exists on Humberwood Boulevard immediately north of Pinecone Drive.

An automatic speed and volume study was conducted on Pinecone Drive. Our study results revealed that the majority of motorists (89%) were travelling at speeds less than the 50 km/h speed limit, with an 85<sup>th</sup> percentile speed of 40 km/h. The 85<sup>th</sup> percentile is the speed at or below which the majority of motorists feel comfortable travelling under the existing roadway conditions. The 24-hour volume is 502 vehicles.

Under the current Council policy, 40 km/h speed limits may be implemented on streets where Road Width and either Pedestrian or Road and Traffic Environment criteria are met. This segment of Pinecone Drive satisfies the Road Width and Road and Traffic Environment criteria as set in **Appendix A – Table 1** attached, as there are two curves in the road with a safe travel speed of less than 50 km/h, therefore a speed limit reduction is warranted.

Under the current policy of Council, all-way stop signs are installed where traffic on the affected legs of the intersection reach certain thresholds in terms of volumes and balances. As noted in **Appendix A – Table 2**, these criteria have not been satisfied and an all-way stop is not warranted at this location.

A review of the collision history (January 1, 2003 to December 31, 2005) on Pinecone Drive revealed no speed related collisions and the intersection of Humberwood Boulevard and Pinecone Drive revealed only one incident.

## **CONTACT**

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## **SIGNATURE**

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John Niedra, P.Eng.  
Director, Transportation Services - Etobicoke York District

## **ATTACHMENTS**

Appendix A  
Attachment No. 1: Map

## APPENDIX A – TABLE 1

<b>A. ROAD WIDTH</b>			
1.	(i)	Pavement width equal to or greater than 10.5 metres and the 85 <sup>th</sup> percentile speed is equal to or less than 50 km/h	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>OR</b>			
	(ii)	Pavement width less than 10.5 metres	
PAVEMENT WIDTH: 8.7 metres 85 <sup>TH</sup> PERCENTILE SPEED: 40 km/h			
<b>AND</b>			
<b>B. PEDESTRIAN ENVIRONMENT</b>			
1.	(i)	Elementary or junior high school abuts the road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>OR</b>			
	(ii)	Parkland abuts the road which is contiguous to and used to gain access to an elementary or junior high school Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>OR</b>			
	(iii)	Absence of sidewalk on both sides of the road or a major portion of the road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>OR</b>			
<b>C. ROAD AND TRAFFIC ENVIRONMENT</b>			
1.	(i)	Two or more locations where grades are greater than 5%; and/or safe speed on curves is less than 50 km/h Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>OR</b>			
	(ii)	2 or more locations where there is lack of sufficient distance to stop safely traveling at 50 km/h Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>OR</b>			
	(iii)	Pattern of collisions where vehicle speed was identified as a factor Local streets – 3 or more over 3 years Other streets – 5 or more over 3 years Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

## APPENDIX A – TABLE 2

Eight-Hour Study Period	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road	Unit Volume Split-Major/Minor Roads
Study Period Average	575	167	76/24
Warrant Requirements for Study Period Average	≥500	≥200	≥30/70 or ≤70/30

To warrant the installation of an all-way stop control, the traffic volume requirements for the “Study Period Average” must be completely satisfied in either of the following two combinations of the above three categories:

- i) “Total Approach Vehicle Volume” and “Unit Volume Split–Major/Minor Roads”
- or
- ii) “Vehicle/Pedestrian Volume Crossing Major Road” and “Unit Volume Split–Major/Minor Roads”