All Way Stop Control: Downsview Avenue and Ridge Road

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<tr>
<th>Date:</th>
<th>March 12, 2013</th>
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<tbody>
<tr>
<td>To:</td>
<td>North York Community Council</td>
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<tr>
<td>From:</td>
<td>Acting Director, Transportation Services, North York District</td>
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<td>Wards:</td>
<td>Ward 9 – York Centre</td>
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<tr>
<td>Reference Number:</td>
<td>ny13053 P:\2013\Cluster B\TRA\NorthYorkDistrict</td>
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SUMMARY

This staff report is about a matter that Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City policy or by-laws.

To obtain approval to introduce an All Way Stop Control at the intersection of Downsview Avenue and Ridge Road.

The installation of the all way stop control at this intersection will resolve the concerns regarding driver and pedestrian expectations when crossing the reconfigured intersection from a four legged intersection to a three legged intersection (T-type configuration).

RECOMMENDATIONS

Transportation Services, North York District recommends that North York Community Council:

1. Approve the installation of an All Way Stop Control at the intersection of Downsview Avenue and Ridge Road.

Financial Impact

All costs associated with the installation of an All Way Stop Control are included within Transportation Services 2013 Operating Budget.
ISSUE BACKGROUND

Transportation Services, North York District, was requested by Engineering and Construction Services – Development Engineering to review the feasibility of installing an All Way Stop Control at the intersection of Downsview Avenue and Ridge Road in order to control right-of-way within the intersection and also to provide pedestrians with a protected crossing.

COMMENTS

Downsview Avenue and Ridge Road are both classified as local roadways. Currently, eastbound traffic on Downsview Avenue is free flow, whereas north and southbound traffic on Ridge Road is stop controlled. The regulatory speed limit on Downsview Avenue is 40 km/h and 50 km/h on Ridge Road.

It should be noted that the intersection of Downsview Avenue and Ridge Road was recently converted from a four legged intersection to a T-type intersection. The fourth leg of the intersection, east of Ridge Road was closed and converted to park land. This has resulted in an expansion to the existing "Ridge Road Park” located on the north side of Ridge Road and the implementation of an off street Bicycle Path connecting Downsview Avenue to the new Humber River Regional Hospital (HRRH), Forensics Service and Coroner’s Complex (FSCC) and Government of Ontario office buildings.

To assess existing traffic conditions at the intersection of Downsview Avenue and Ridge Road, this Division conducted an All Way Stop study on March 7, 2013, updated vehicle and pedestrian volumes, assessed the existing roadway geometry and collected intersection collision statistics.

The results of the study are as follows:

<table>
<thead>
<tr>
<th>Downsvie Avenue and Ridge Road</th>
<th>Actual</th>
<th>Required</th>
<th>Satisfied (YES/NO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Collision History</td>
<td>1/3 yrs</td>
<td>9/3 yrs</td>
<td>NO</td>
</tr>
<tr>
<td>B1 Total Vehicle Volumes</td>
<td>138</td>
<td>250/avg hr</td>
<td>NO</td>
</tr>
<tr>
<td>B2 Combined Vehicle &amp; Pedestrian Volumes Crossing Major Road</td>
<td>31</td>
<td>100/avg hr</td>
<td>NO</td>
</tr>
<tr>
<td>B3 Percentage of Traffic on Major Road</td>
<td>78</td>
<td>&lt; 70</td>
<td>NO</td>
</tr>
<tr>
<td>Overall Warrant</td>
<td></td>
<td></td>
<td>NO</td>
</tr>
</tbody>
</table>

In order for the All Way Stop “Overall Warrant” to be warranted, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be achieved.

The results of the All Way Stop study concluded that the warrants for the installation of an All Way Stop Control were not satisfied.
A review of Toronto Police Service collision records revealed that in a three year period ending December 31, 2012, there have been zero collisions at this intersection of a type susceptible to correction by the installation of an All Way Stop Control. However, given the recent reconfiguration of the intersection, the collision data does not reflect the current intersection operation.

It should be noted that the stop control on a T-type intersection is typically located on the stub portion and not cross street. Therefore, as the current configuration does not conform to the typical traffic control signage, drivers & pedestrians are confused as to who has the right-of-way. Staff observations indicate that drivers were hesitant in conducting the predominant movements at this intersection, southbound right turns and eastbound left turns.

It is our opinion based on engineering practices that once the Humber River Regional Hospital (HRRH) and Forensics Service and Coroner’s Complex (FSCC) are operational, the existing pedestrian and cycling activity will increase.

Notwithstanding, although the current traffic volumes do not support the installation of the All Way Stop Control, in order to ensure positive guidance for the motorists and pedestrians using this intersection, we would recommend the installation of an All Way Stop Control.

In view of the above, Transportation Services recommends the installation of an All Way Stop Control at the intersection of Downsview Avenue and Ridge Road in order to address the right-of-way concerns at this location.

The Ward Councillor has been advised of the recommendations contained in the report.

CONTACT

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SIGNATURE

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Pascoal D'Souza, C.E.T.
Acting Director

ATTACHMENTS

Attachment 1: Map – Downsview Avenue at Ridge Road: All Way Stop Control