All-Way Stop Sign Control – Milverton Boulevard at Caithness Avenue

Date: January 8, 2013
To: Toronto and East York Community Council
From: Acting Director, Transportation Services, Toronto and East York District
Wards: Toronto-Danforth - Ward 29
Reference Number: Ts2013028te.top.doc

SUMMARY

This staff report is about a matter for which the Toronto and East York Community Council has delegated authority from City Council to make a final decision.

Transportation Services staff have reviewed the need for all-way stop sign control at Milverton Boulevard and Caithness Avenue to address residents' concerns with pedestrian and vehicular safety. Our assessment indicates the criteria as set out in the all-way stop sign control warrant has not been satisfied. Therefore, all-way stop sign control should not be installed at the intersection of Milverton Boulevard and Caithness Avenue.

RECOMMENDATIONS

Transportation Services recommends that Toronto and East York Community Council:

1. Not approve eastbound and westbound stop control on Milverton Boulevard at Caithness Avenue.

Financial Impact

Adoption of the above recommendation will not result in any financial impacts.

However, should Toronto and East York Community Council decide that the intersection of Milverton Boulevard and Caithness Avenue would benefit from the installation of eastbound and westbound stop signs, funds to undertake the necessary signage adjustments in the estimated amount of $600.00 are contained in the Transportation Services Division 2013 Interim Operating Budget.
ISSUE BACKGROUND
At the request of area residents, and in consultation with Ward Councillor Mary Fragedakis, Transportation Services staff reviewed the intersection of Milverton Boulevard and Caithness Avenue to determine whether the installation of all-way stop signs would address pedestrian and vehicular traffic concerns.

COMMENTS
Milverton Boulevard at Caithness Avenue operates two-way, east-west, with a pavement width of 8.5 metres and a speed limit of 40 km/h. Caithness Avenue operates two-way, north-south, with a pavement width of 8.5 metres and a speed limit of 40 km/h. Caithness Avenue forms a T-type intersection with Milverton Boulevard and a stop sign is posted on Caithness Avenue for northbound traffic. Wilkinson Public School and Danforth Collegiate Institute and Technical School are located in this area. There is no TTC service on either Milverton Boulevard or Caithness Avenue.

Analysis
A review of the Toronto Police Service collision data records for the three-year period ending June 30, 2012 did not reveal any collisions at this intersection.

In order for all-way stop sign control to be justified at an intersection, established warrant criteria must be satisfied. The criteria, as adopted by City Council, include such factors as right-of-way conflicts, collision history, vehicular and pedestrian usage of the intersection.

Transportation Services evaluated this location and applied the results of the vehicle and pedestrian study and the collision records of the Toronto Police Service to the all-way stop sign criteria. The results are shown in the following table:

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Present Condition</th>
<th>Minimum Total Vehicle Volume (Each of 4 Peak Hrs)</th>
<th>Combined Crossing Volume (Vehicles &amp; Pedestrians)</th>
<th>Volume Split (= 70%/30%)</th>
<th>Collision Hazard (≥ 2/yr.)</th>
<th>All-way stop Warrants Satisfied (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milverton Boulevard and Caithness Avenue</td>
<td>Northbound stop sign on Caithness Avenue</td>
<td>Required 250 Vehicles/hr Actual 76 Vehicles/hr</td>
<td>Required 100 Units/hr Actual 17 Units/hr</td>
<td>81% / 19%</td>
<td>0</td>
<td>No</td>
</tr>
</tbody>
</table>

The low number of vehicles and pedestrians entering this intersection does not satisfy the technical warrants as adopted by City Council for the installation of all-way stop control on Milverton Boulevard at Caithness Avenue.

However, if Toronto and East York Community Council decides that the intersection of Milverton Boulevard and Caithness Avenue would benefit from the
installation of all-way stop sign control, the following alternate recommendation should be adopted:

1. Toronto and East York Community Council approve the installation of eastbound and westbound stop control on Milverton Boulevard at Caithness Avenue.

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SIGNATURE

Jacqueline White, P.Eng.
Acting Director, Transportation Services
Toronto and East York District

LIST OF ATTACHMENTS
(1) Drawing No. 421G-0955, dated January 2013