All-Way Stop Control - Baird Avenue and Earl Grey Road

Date: May 12, 2017
To: Toronto and East York Community Council
From: Acting Director, Transportation Services, Toronto and East York District
Wards: Ward 30, Toronto-Danforth

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.

Transportation Services staff have reviewed the need for all-way stop control at the intersection of Baird Avenue and Earl Grey Road, to address residents’ concerns regarding safety. Our assessment indicates the criteria as set out in the all-way stop warrant has not been satisfied at this intersection. Therefore, an all-way stop control should not be installed at the intersection of Baird Avenue and Earl Grey Road.

RECOMMENDATIONS

The Acting Director, Transportation Services, Toronto and East York District, recommends that:

1. Toronto and East York Community Council deny the installation of an all-way stop control at the intersection of Earl Grey Road and Baird Avenue.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendations in this report.
DECISION HISTORY

At its meeting on April 5, 2016, Toronto and East York Community Council adopted item TE15.71, requesting Transportation Services, Toronto and East York District to review and report back to Toronto and East York Community Council regarding the installation of all-way compulsory stop control at the intersection of Baird Avenue and Earl Grey Road. The Council decision can be found at:

http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2016.TE15.71

COMMENTS

Existing Conditions
Baird Avenue is classified as a local roadway which operates two-way east-west and has a posted speed limit of 30 km/h. The pavement width is approximately 7.30 metres and sidewalks are provided on both sides. Earl Grey Road is classified as a local roadway which operates two-way north-south and has a posted speed limit of 30 km/h. The pavement width is approximately 7.35 metres and sidewalks are provided on both sides.

Baird Avenue and Earl Grey Road meet at a four-legged intersection. The north leg and south leg of the intersection is offset by approximately 7.0 metres. Currently, northbound and southbound traffic on Earl Grey Road is stop-controlled, and eastbound and westbound traffic on Baird Avenue is free-flow. There is no TTC service provided at this intersection.

Analysis
In order for an all-way stop control to be justified at an intersection, established warrant criteria must be satisfied. The criteria, as adopted by City Council, include such factors as collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

Transportation Services evaluated the intersection of Baird Avenue at Earl Grey Road and applied the results of the vehicle/pedestrian study, and Toronto Police Service collision records to the all-way stop control warrant criteria. Based on the review, this intersection does not meet the minimum criteria required for an all-way stop control.

A review of the Toronto Police Service collision records over a three-year period ending June 30, 2016, revealed that one reported collision occurred at the intersection of Baird Avenue and Earl Grey Road. The collision was not of a type susceptible to correction by the installation of all-way stop control.

The results of the all-way stop control warrant study at the intersection of Baird Avenue and Earl Grey Road has been summarized in the following table:
<table>
<thead>
<tr>
<th>Total Approach Vehicle Volume (Each of Four Peak Hours)</th>
<th>Combined Crossing Volume (Vehicles &amp; Pedestrians)</th>
<th>Main Street/Side-Street 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>Required: 250 Vehicles/Hour</td>
<td>Required: 100 Units/Hour</td>
<td>60% / 40%</td>
<td>0.0</td>
<td>No</td>
</tr>
<tr>
<td>Actual: 54 Vehicles/Hour</td>
<td>Actual: 25 Units/Hour</td>
<td></td>
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</tbody>
</table>

Based on the above review, the technical warrants for the installation of an all-way stop control at the intersection of Baird Avenue and Earl Grey Road are not satisfied and the requested installation of an all-way stop control at this intersection is not recommended.

In addition, Transportation Services conducted an observation study on December 8, 2016 during the AM Peak Period (7:30 a.m. to 9:30 a.m.) and PM Peak Period (4:00 p.m. to 6:00 p.m.) and noted no pedestrian/vehicular conflicts. The existing stop controls were clearly visible and in good repair.

Councillor Paula Fletcher has been advised of the recommendations of this staff report.

**CONTACT**

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**SIGNATURE**

Dave Twaddle, C.E.T.
Acting Director, Transportation Services
Toronto and East York District

**ATTACHMENTS**

1. Drawing No 421G-2515, dated May 2017

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