



Report to: Development Services Committee

Report Date: April 10, 2017

SUBJECT: Proposed All-way Stop Control – Golden Avenue & Brando Avenue /
Connery Crescent

PREPARED BY: Dan Ahir, Engineering Technologist, ext. 2736
David Porretta, Supervisor, Traffic Operations, ext. 2040

RECOMMENDATION:

- 1) That the report entitled “Proposed All-way Stop Control – Golden Ave & Brando Avenue / Connery Crescent”, be received;
- 2) And that Schedule 12 of Traffic By-law 106-71, pertaining to compulsory stops, be amended to include all approaches to the intersection of Golden Avenue & Brando Avenue / Connery Crescent;
- 3) And that the Operations Department be directed to install the appropriate signs and pavement markings at the subject locations;
- 4) And that the cost of materials and installation for the traffic signs and pavement markings be funded from capital project # 083-5350-17162-005;
- 5) And that York Region Police be requested to enforce the all-way stop control upon installation of the regulatory signs and passing of the By-law amendment;
- 6) And that staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

This report recommends implementing an all-way stop at the intersections of Golden Avenue & Brando Avenue / Connery Crescent, to improve intersection operations and address safety concerns.

BACKGROUND:

Traffic Operations staff received concerns from the local community regarding operational safety at the intersections of Golden Avenue & Brando Avenue / Connery Crescent. In particular, vehicular and pedestrian crossing volumes during AM and PM peak periods can be quite high.

The subject intersection is located west of Markham Road and north of Denison Street (see Attachment “A”). Golden Avenue is a minor collector road with an average daily traffic (ADT) volume of 4,093 vehicles near the subject intersection. Brando Avenue is a local road, with an ADT volume of 1,270 vehicles. Stop control at the intersection is currently assigned to Brando Avenue and Connery Crescent, giving traffic on Golden Ave the right-of-way. Ellen Fairclough Public School is located north of the intersection and contributes significant vehicular and pedestrian traffic at the intersection during AM and PM peak periods.

DISCUSSION:

In response to community concerns, Traffic Operations staff conducted an all-way stop warrant analysis at the subject intersection. An all-way stop control may be considered where provincial warrant guidelines are met, as outlined in the Ontario Traffic Manual. The warrant considers total vehicular volume and volume distribution between the “major” and “minor” approaches of the intersection during the busiest hour of the day.

All-way stop control is recommended to address traffic operations concerns.

In January 2017, Traffic Operations staff conducted an all-way stop warrant analysis during the busiest one-hour period of a typical weekday at the intersection. The warrant analysis results are as follows:

Figure 1 Golden Ave & Brando Ave/Connery Cres - All-way Stop Warrant Results

CRITERIA #1 Total Traffic Volume (All Approaches)			CRITERIA #2 Volume Assigned to “Minor” Street (Brando Ave / Connery Cres)		
Minimum Criteria	Recorded Value	Criteria Met?	Minimum Criteria (4-way)	Recorded Value	Criteria Met?
350	376	YES	35%	40%	YES

All-way stop control is warranted when both Criteria #1 and Criteria #2 are satisfied. As shown above, the intersection meets Provincial guidelines for all-way stop control. Therefore, Engineering Department recommends that an all-way stop control be provided. Once implemented, it is expected that the all-way stop control will improve intersection operations and pedestrian safety.

FINANCIAL CONSIDERATIONS:

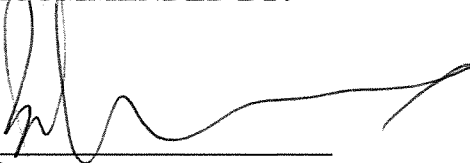
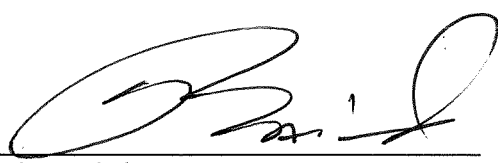
The cost of materials and installation for the traffic signs and pavement markings in the amount of \$1,000 has been included in the capital project # 083-5350-17162-005 (Traffic Operational Improvements). On-going maintenance costs will be absorbed in Operations Department operating budget.

ALIGNMENT WITH STRATEGIC PRIORITIES:

The recommendations identified within this report align with the strategic focus for a Safe & Sustainable Community, through the ongoing management of the City’s transportation network.

DEPARTMENTS CONSULTED AND AFFECTED:

Operations Department has been circulated this report, recognizing operating impacts associated with the additional regulatory signs and pavement markings.

RECOMMENDED BY:
Brian Lee, P.Eng
Director, Engineering
Jim Baird, M.C.I.P., R.P.P.
Commissioner, Development Services

ATTACHMENTS:

Attachment "A" – Location Map - Golden Ave & Brando Avenue / Connery Crescent

Attachment "B" – All-way Stop Control By-Law Amendment

14 th Ave	Markham Rd
	Steeles Ave
	McCowan Rd
KEY MAP	



PROPOSED ALL-WAY STOP

CONTROL

**Golden Ave &
Brando Ave / Connery
Cres**



Traffic Operations

February 2017

ATTACHMENT A





BY-LAW NUMBER _____

TO AMEND BY-LAW 106-71

BE IT ENACTED BY THE COUNCIL OF THE CORPORATION OF THE CITY OF MARKHAM THAT TRAFFIC BY-LAW 106-71 BE AND THE SAME IS HEREBY AMENDED AS FOLLOWS:

1. That Schedule 12 of Traffic By-law 106-71, pertaining to “Compulsory Stops”, be amended by adding the following:

COLUMN 1	COLUMN 2	COLUMN 3
<u>INTERSECTION</u>	<u>FACING TRAFFIC</u>	<u>LOCATION OF STOP SIGN</u>
Golden Avenue & Brando Avenue / Connery Cres	Eastbound on Golden Avenue	South side of Golden Avenue, on the west side of Connery Crescent
Golden Avenue & Brando Avenue / Connery Crescent	Westbound on Golden Avenue	North side of Golden Avenue, on the east side of Brando Avenue

2. The By-Law shall come into force and effect upon receiving the third reading by the Council of the City of Markham and also when authorized signs have been erected.

READ A FIRST, SECOND AND THIRD TIME AND PASSED THIS _____

DAY OF _____, 2017.

KIMBERLY KITTERINGHAM
CITY CLERK

FRANK SCARPITTI
MAYOR

ATTACHMENT “B”