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Town of Aurora
General Committee Report
No. PDS20-070

Subject: Request for Traffic Calming Measures - Aurora Heights Drive and Seaton Drive

Prepared by: Michael Bat, Traffic/Transportation Analyst

Department: Planning and Development Services

Date: November 17, 2020

Recommendation

1. That Report No. PDS20-070 be received for information.

Executive Summary

This report presents to Council the results of the traffic calming warrant analysis undertaken for Aurora Heights Drive and Seaton Drive.

- The existing road conditions of Aurora Heights Drive and Seaton Drive are generally consistent with the Town's design standards for a collector road.
- The subject locations did not meet the minimum requirements under Warrant No. 3 as set out in the Town's Traffic Calming Policy.

Background

In response to petitions received from area residents for traffic calming measures, Town staff completed warrant analyses following the procedures and methodologies outlined in the Town's Traffic Calming Policy for two locations:

- The west leg of Aurora Heights Drive between Bathurst Street and Delayne Drive; and,
- Seaton Drive between Morning Crescent and Simmons Crescent.

The subject locations are shown in Attachment 1.

Analysis

The existing road conditions of Aurora Heights Drive and Seaton Drive are generally consistent with the Town's design standards for a collector road

Aurora Heights Drive: is a two-lane major collector road with single lane per travel direction. It has an urban cross-section with curbs and sidewalks on both sides of the road. The existing pavement is measured 8 metres wide and in accordance to the Town Zoning By-law No. 4574-04.T the posted speed limit is 40 km/h.

Seaton Drive: is a two-lane minor collector road with single lane per travel direction. It has an urban cross-section with curbs on both sides of the road and sidewalks provided along the south-east side of the road. The existing pavement is measured 7.5 metres wide and in accordance to the Town Zoning By-law No. 4574-04.T the posted speed limit is 40 km/h.

The subject locations did not meet the minimum requirements under Warrant No. 3 as set out in the Town's Traffic Calming Policy

As set out in the Town's Traffic Calming Policy, a total of three warrants must be satisfied in order for traffic calming measures to be considered as are described below:

- Warrant No. 1: Petition, will ensure that residents in the immediate area are in support of traffic calming measures.
- Warrant No. 2: Safety Requirements, will ensure traffic calming measures are installed so as to create an increase in traffic safety.
- Warrant No. 3: Technical Requirements, will ensure that traffic calming measures are implemented on streets that have a proven need for such measures.

Following the Town's Traffic Calming Policy, the warrant analysis results are summarized in Table 1 for Aurora Heights Drive and Table 2 for Seaton Drive.

Table 1: West Leg of Aurora Heights Dr. between Bathurst St. & Delaye Dr.

Warrant	Criteria	Requirement	Site Parameters	Yes / No
Warrant No. 1 (Petition)	Petition	Minimum 70%	71%	Yes
	Warrant 1 Met?			Yes
Warrant No. 2 (Safety Requirements)	Emergency Response	Consultation	No Comments	Yes
	Transit Services	Consultation	No Comments	Yes
	Sidewalks	Minimum 1 side	Both Sides	Yes
	Road Grade	Maximum 5%	< 2%	Yes
	Warrant 2 Met?			Yes
Warrant No. 3 (Technical Requirements)	Minimum Speed	85 th Percentile Minimum 15 km/h Over Posted Speed Limit	14 km/h Over Posted Speed Limit	No
	Minimum Volumes	Between 1,500 and 8,000 Vehicles Per Day	1,605 Vehicles Per Day	Yes
	Minimum Block Length	Minimum 120 m	Approx. 270 m	Yes
	Special Circumstances	-	None	-
	Warrant 3 Met?			No
All Warrants 1 - 3 Met?				No

Table 2: Seaton Drive between Morning Crescent and Simmons Crescent

Warrant	Criteria	Requirement	Site Parameters	Yes / No
Warrant No. 1 (Petition)	Petition	Minimum 70%	82%	Yes
	Warrant 1 Met?			Yes
Warrant No. 2 (Safety Requirements)	Emergency Response	Consultation	No Comments	Yes
	Transit Services	Consultation	No Comments	Yes
	Sidewalks	Minimum 1 side	South-East Side	Yes
	Road Grade	Maximum 5%	< 2%	Yes
	Warrant 2 Met?			Yes
Warrant No. 3 (Technical Requirements)	Minimum Speed	85 th Percentile Minimum 15 km/h Over Posted Speed Limit	12 km/h Over Posted Speed Limit	No
	Minimum Volumes	Between 1,500 and 8,000 Vehicles Per Day	1,258 Vehicles Per Day	No
	Minimum Block Length	Minimum 120 m	Approx. 290 m	Yes
	Special Circumstances	-	None	-
	Warrant 3 Met?			No
All Warrants 1 - 3 Met?			No	

As shown in Tables 1 and 2, both locations did not satisfy the minimum requirements for Warrant No. 3. According to Figure 1: Traffic Calming Process Flow Chart” in the Town’s Traffic Calming Policy, the traffic calming proposal status for the subject locations are defined in Steps G and H:

Step G: Warrant 3 consists of evaluations of speeds, traffic volumes and block lengths. Failure to meet any one of the technical warrants would result in a location being rejected for implementation of traffic calming measures.

Step. H: If the proposal does not meet the criteria outlined in Warrant 3, then a report will be submitted to Council indicating that staff does not recommend proceeding with the study, outlining the reasons why. If Council requests that the study continue a recommendation from Council must be forwarded to Staff requesting the study continue.

Alternatively, if Council decides not to continue with the study then a letter will be sent to the proponents indicating that the study will not continue.

Advisory Committee Review

Not Applicable.

Legal Considerations

Not Applicable.

Financial Implications

None.

Communications Considerations

The Town of Aurora will use 'Inform' as the level of engagement for this project. There are five different levels of community engagement to consider, with each level providing the community more involvement in the decision-making process. These levels are: Inform, Consult, Involve, Collaborate and Empower. Examples of each are found in the Community Engagement Policy. These options are based on the International Association of Public Participation (IAP2) Spectrum and assist in establishing guidelines for clearly communicating with our public and managing community engagement. In order to inform the public, this report will be posted to the Town's website.

In addition, area residents were notified by mail on November 2, 2020 that this staff report will be presented to the General Committee meeting of November 17, 2020.

Link to Strategic Plan

This report supports the Strategic Plan goal of Support an Exceptional Quality of Life for All by examining traffic patterns and identify potential solutions to improve movement and safety at key intersections in the community.

Alternative(s) to the Recommendation

1. That Council direct staff to install traffic calming measures for the west leg of Aurora Height Drive between Bathurst Street and Delayne Drive and the associated cost to be funded by Capital Project No. 34519 – Traffic Calming.
2. That Council direct staff to install traffic calming measures for Seaton Drive between Morning Crescent and Simmons Crescent and the associated cost to be funded by Capital Project No. 34519 – Traffic Calming.

Conclusions

In response to recent inquiries received from residents for traffic calming, Town staff completed warrant analyses following the procedures and methodologies listed in the Town's Traffic Calming Policy for two locations:

- Aurora Heights Drive between Bathurst Street and Delayne Drive (west leg); and,
- Seaton Drive between Morning Crescent and Simmons Crescent.

Based upon the information presented herein, the subject locations did not satisfy the minimum requirements outlined in the Town's Traffic Calming Policy and therefore staff do not recommend the installation of traffic calming measures.

Attachments

Attachment 1: Subject Locations

Previous Reports

None.

Pre-submission Review

Agenda Management Team review on October 29, 2020

Approvals

Approved by David Waters, MCIP, RPP, PLE, Director, Planning & Development Services

Approved by Doug Nadorozny, Chief Administrative Officer