



The Corporation of the Town of Milton

Report To: Council

From: Jill Hogan, Commissioner, Development Services

Date: May 29, 2023

Report No: DS-026-23

Subject: Implementation of All-Way Stop - Ferguson Drive and Hearst Boulevard

Recommendation: THAT a by-law be enacted to amend by-law 1984-1, as amended, to implement an all way stop at the intersection of Ferguson Drive and Hearst Boulevard (Appendix I);

AND THAT Schedule 12 and Schedule 13 of the Uniform Traffic Control By-law be amended accordingly (Appendix II);

AND FURTHER THAT the appropriate by laws be presented to Council for approval.

EXECUTIVE SUMMARY

This report recommends the implementation of an all-way stop at the intersection of Ferguson Drive and Hearst Boulevard.

The Development Services Department has received several requests to install an all-way stop at the intersection of Ferguson Drive and Hearst Boulevard in the past few years. Residents have expressed safety concerns with the amount of traffic and pedestrians at this intersection. The all way stops will assist in making Milton's roads safer for all road users in the community.

REPORT

Background

The intersection of Ferguson Drive and Hearst Boulevard is a four legged intersection located at the centre of several pedestrian generator destinations, such as schools, parks, and the library. There is a Pedestrian Crossover (PXO) at this intersection. Vehicles travelling along Ferguson Drive are required to stop at the Pedestrian Crossover when there is pedestrian crossing.

Background

Hearst Boulevard is a local road with a posted 50km/h speed limit and has an asphalt width of 10 metres, running east/west between Fourth Line and Winter Crescent. There are sidewalks existing on both sides of the road, and parking is permitted on north side of the road.

Ferguson Drive is a collector road with a posted speed limit of 50km/h and has an asphalt width of 13 metres, running north/south between Armstrong Boulevard and Louis St Laurent Avenue. In the future, Ferguson Drive will be extended south to intersect with Britannia Road. There are sidewalks, parking lanes, and bike lanes on both side of the road, and parking is permitted on both sides of Ferguson Drive. Vehicles travelling on Ferguson Drive are required to stop at the Pedestrian Crossover when there is pedestrian crossing.

Discussion

As a result of resident requests, the intersection of Ferguson Drive and Hearst Boulevard has been counted on 10 occasions between 2005 - 2021. During this time period, at no time were warrants fulfilled for an all-way stop.

In December 2021, the Ontario Ministry of Transportation updated their warrant criteria for all-way stops. An update of Ontario Traffic Manual (OTM) Book 5 was made at this time. The Town of Milton utilizes OTM warrants for all-way stops. As a result of this change, an updated Turning Movement Count was completed at this intersection.

All-way Stop Count Date: March 20, 2023

A manual turning movement count was completed at the intersection of Ferguson Drive and Hearst Boulevard during the a.m., off peak and p.m. peak periods to determine if an all way stop is warranted. The results are as follows:

Part "A" Vehicle volume from all approaches	113%
Part "B" Combined vehicle and pedestrian volume on minor streets	100%
Part "C" Minor Street Volume Split	30%

The warrants consider the overall vehicle volume entering the intersection during the peak traffic times, the combined vehicle and pedestrian volume on the minor street, as well as the minor street volume split. In order for an all-way stop to be warranted by volume, both Parts "A" and "B" must equal or exceed 100%, Part "C" must be equal or exceed 30%. Since Part "A" and Part "B" is higher or equal to 100% and Part "C" is equal to 30%, an all-way stop is warranted at the study intersection.

Discussion

Vehicles on Hearst Boulevard were observed stopping past the stop bar blocking the bike lanes on Ferguson Drive to clearly see oncoming traffic due to the parked vehicles as well as the curvature of the road. Periodically, vehicles travelling along Ferguson Drive stop for vehicles on Hearst Boulevard thinking it is an all-way stop. There is a large volume of high school students and younger school aged children accompanied by adults crossing at the study intersection during school peak hours.

A review of the collision history indicates that no reportable collisions have occurred within the last three years at this intersection.

48 hour speed studies were also completed on Ferguson Drive between Clark Boulevard and Meighen Way in summer 2022. The results are summarized below:

Ferguson Drive - Speed Summary - Posted Speed Limit 50 km/h			
Direction	48 Hour AADT (Annual Average Daily Traffic)	Average Speed (km/h)	85 th Percentile Speed (Km/h)
Northbound:	1,269 vehicles	49 km/h	58.17 km/h
Southbound:	1,027 vehicles	52 km/h	59.75 km/h
Combined:	2,296 vehicles	49 km/h	58.74 km/h

The 85th percentile speed is the speed at which 85% of the vehicles are travelling at or below. These speeds are deemed acceptable within a posted 50 km/h zone

As a result of Part “A”, Part “B”, and Part “C” of the warrant being fulfilled at the intersection of Ferguson Drive and Hearst Boulevard in 2023, staff recommends the installation of an all-way stop. The installation of an all-way stop will provide a protected crossing for the pedestrians and will regulate the right-of-way at the intersection. Along with the installation of the all-way stop, the PXO will be removed from the intersection.



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Report #:
DS-026-23
Page 4 of 4

Financial Impact

The cost to install the appropriate signage and pavement markings is approximately \$1,200 and is provided for within the 2023 Operating Budget.

Respectfully submitted,

Jill Hogan
Commissioner, Development Services

For questions, please contact:
Heide Schlegl, C.E.T., MITE,
Dipl. M.M., Manager Traffic
Lily Huang, Traffic Technician

Phone: 905-878-
7252 Ext. 2506/
2527

Attachments

Appendix I - Location Map
Appendix II - Schedule 12 and 13 By-law Amendment

Approved by CAO
Andrew M. Siltala
Chief Administrative Officer

Recognition of Traditional Lands

The Town of Milton resides on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation. We also recognize the traditional territory of the Huron-Wendat and Haudenosaunee people. The Town of Milton shares this land and the responsibility for the water, food and resources. We stand as allies with the First Nations as stewards of these lands.