



Council Report

Report Number:	ENG2023-033
Meeting Date:	November 21, 2023
Title:	Request for All-way Stop – Orchard Park Road and Connolly Road and Angeline Street North
Description:	Request for Traffic Control
Author and Title:	Joseph Kelly, Traffic Management Supervisor

Recommendation(s):

That Report ENG2023-033, **Request for All-way Stop – Orchard Park Road and Connolly Road and Angeline Street North** be received;

That an all-way stop be installed at the intersection Orchard Park Road/Connolly Road and Angeline Street North;

That flashing red beacons be installed, warning of the all-way stop at the intersection of Orchard Park Road/Connolly Road and Angeline Street North;

That the necessary By-law for the above recommendations be forwarded to Council for adoption.

Department Head: _____

Financial/Legal/HR/Other: _____

Chief Administrative Officer: _____

Background:

There is major development occurring off Angeline Street North which when fully built-out will exacerbate the need for a traffic signal at the intersection of Orchard Park Road/Connolly Road and Angeline Street North. The 2011 Transportation Master Plan had identified this intersection as needing signals by 2031. The 2023 Transportation Master Plan Update is underway which will specify if future improvement timelines have changed.

At this time, the installation of a traffic signal at this intersection has not been budgeted or designed since it was identified as a long-term need.

Rationale:

The Ontario Traffic Manual (OTM) allows for the installation of an all-way stop as an interim measure where traffic signals are warranted.

To determine if traffic signals are warranted, staff performed a traffic signal justification warrant using turning movement data collected on September 19, 2023. The warrant was 90% met.

Although the signal justification was not met, it would be using good engineering judgement to factor in the lack of sidewalks on one side of Angeline Street North, forcing pedestrians to cross the major street, coupled with driver behaviour at this intersection. The overall traffic level of service experienced at this intersection is dropping due to the increased traffic demand. This contributes to driver confusion accompanied by an increased chance of risky maneuvers. The intensity of which increases during peak seasonal volumes. It would be appropriate to install an interim all-way stop.

In light of the increased conflict potential with both vehicles and pedestrians it is recommended that an interim all-way stop be installed at the intersection of Angeline Street North and Orchard Park Road/Connolly Road. Due to the intersection of an arterial road with a collector road, the installation of flashing red beacons is recommended. Appendix A shows the OTM recommended sign placement.

Other Alternatives Considered:

Leaving the intersection as-is until the warrant is fully met is a viable alternative, however it is anticipated that a sharp increase in usage will continue before the installation, significantly lowering the level of service at this intersection, and increasing the conflict potential.

Alignment to Strategic Priorities

Providing life safety and protection, is a priority objective of the City under the Council Adopted Strategic Plan Goal of An Exceptional Quality of Life.

Financial/Operation Impacts:

\$1350 - Cost of installing new signs and painting through Public Works operational budget

\$14,000 – Cost of 4 flashing red solar beacons through traffic signal budget.
To be repurposed after traffic signal installation

Consultations:

Sr. Engineering Technician – Development Engineering

Attachments:

Appendix A – OTM Recommended Sign Placement



Adobe Acrobat
Document

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Department Head: Juan Rojas, Director of Engineering & Corporate Assets

Department File: Engineering and Corporate Assets