



Administrative Report

Office of the Director, Infrastructure & Planning Services

To: Warden McNamara and Members of Essex County Council

From: Jerry Behl, P.Eng.
Manager, Transportation Planning and Development

Date: Wednesday, May 04, 2022

Subject: County Road 20 and County Road 23 Intersection Analysis

Report #: 2022-0504-ISD-R13-JB

Purpose

The purpose of this report is to provide Council with information regarding a review of the intersection of County Road 23 (CR 23) and County Road 20 (CR 20) and recommend measures to improve safety.

Background

On Wednesday March 2, 2022 Essex County Council passed Resolution 0488-2022. This resolution stated;

"That Essex County Council direct County Administration to review the request from the Town of Kingsville, seeking a controlled intersection at County Road 20 and County Road 23 and report back to County Council with recommendations."

A copy of the County Council memo and resolution is attached as Appendix A, and a copy of the Town of Kingsville Letter is attached as Appendix B.

Discussion

Administration reviewed the intersection of County Road 23 and County Road 20 with a site visit to check sight lines and geometry. A review of the collision history and analysis of alternative control measures for the intersection was also completed.

Existing Conditions

CR 23 and CR 20 intersect perpendicularly. The intersection sightlines are clear and stopping sight distances are clear. There are no significant obstacles blocking drivers' sight lines. The intersection has existing oversize "STOP" and "STOP AHEAD" signs on County Road 23. There are two existing street lights at the intersection, and a review of the collision history does not indicate that lighting is a significant factor.

A map showing the existing intersection of CR 23 and CR 20 is shown below in Figure 1.



Figure 1

Review

Administration reviewed the collision history and found no patterns that would support a specific engineering measure should be implemented.

Analysis for installing a four-way stop or a traffic signal was completed in accordance with Ontario Traffic Manuals, and these measures were not warranted. Administration has a concern that installing these measures

would not lead to a reduction in collisions and could possibly lead to an increase.

Recommended Countermeasures

Although the current measures in place meet or exceed the guidance of the Ontario Traffic Manual, Administration could support the following measures:

- To emphasize the two-way stop, install pavement marking stating "STOP AHEAD" and "STOP";
- Install side mounted, solar powered, flashing beacons above the stop signs;
- Add coloured and/or textured road surface in advance of the stop sign as a pilot program, providing visual, tactile and audible positive guidance.

Financial Implications

The cost of implementing the recommended measures is under \$10,000 and can be managed within the approved Intersection Safety Improvement budget, should County Council wish to proceed. The measures can be implemented within a month.

Consultations

Consultation with Infrastructure Services staff including the County Traffic Engineer have taken place.

Recommendation

That Essex County Council receive Report 2022-0504-ISD-R13-JB for information, and further,

That County Council direct Administration implement the following measures at the intersection of County Road 20 and County Road 23:

- To emphasize the two-way stop Administration will install pavement markings stating "STOP AHEAD" and "STOP";
- Installing side mounted flashing beacons above the stop signs;
- Administration will be carryout out a pilot project adding colour and or texture to the road surface in advance of the stop sign.

Approvals

Respectfully Submitted,

Jerry Behl

Jerry Behl, P.Eng., Manager, Transportation Planning and Development

Concurred With,

Allan Botham

Allan Botham, P.Eng., Director, Infrastructure and Planning Services

Concurred With,

Mike Galloway

Mike Galloway, MBA, CMO, Chief Administrative Officer

| Appendix Number | Title |
|-----------------|---|
| Appendix A | Essex County Council Resolution 0488-2022. |
| Appendix B | The Town of Kingsville Letter June 19, 2020 |