



The Corporation of the Township of King Report to Council

From: Public Works Department, Capital Services Division

Report Number: PW-CAP-2025-001

Date: Monday, March 17, 2025

Title: **17th Sideroad (Highway 27 to 12th Concession) Corridor Safety Review**

Recommendation

1. That Council receive Report PW-CAP-2025-001 and;
2. That Council enact By-law 2025-025 to revise the speed limit on 17th Sideroad (between Highway 27 and 12th Concession) from 60 km/h to 70 km/h and to implement all-way stop control within King as follows:
 - Four-legged intersection of 17th Sideroad and 11th Concession

1. Report Highlights

- A detailed traffic safety review was conducted along the corridor of 17th Sideroad from Highway 27 to 12th Concession by retained consulting firm RJ Burnside and Associates.
- The safety review along the corridor included data collection, site investigation, field measurements, survey, sight line analysis, risk assessment and conceptual recommendations for improvements such as traffic calming, line painting, and speed limit revisions.

2. Purpose

In response to a Council motion staff retained RJ Burnside to complete a detailed safety review of the 17th Sideroad from Highway 27 to 12th Concession. This report provides Council with the results of the safety review and recommendations for enhancements.

3. Background

On September 9th, 2024, Council approved a motion requesting a traffic safety study be conducted on 17th Sideroad from Highway 27 to 12th Concession in response to a resident letter dated September 6th 2024. Township staff retained RJ Burnside, an Engineering Consulting firm to complete the work.

4. Analysis

The safety review along the corridor incorporated various activities such as data collection, site investigation, field measurements, survey, sightline analysis, and risk assessment. The assessment focused on evaluating the road design's safety in accordance with the Transportation Association of Canada (TAC) design guidelines for vehicles operating at the posted speed limit of 60 km/h. The overall conclusion of the review is that the road complies with the guidelines. In addition, the consultant provides the following recommendations:

- The intersection of 17th Sideroad & 11th Concession now meets minimum warrants for all way stop control (AWS).
- Complete vegetation trimming in the southeast and northwest corners of the 12th Concession intersection as well as at #6595 17th Sideroad.

Driver behavior was also analyzed. Although the posted speed limit is 60 km/h, the average operating speed of vehicles is 87 km/h. Roads are typically designed for safety at speeds 10 - 20km/h over the posted speed limit. 17th Sideroad is designed to comply with geometric design standards for 80 km/h. To bridge the gap between the posted speed limit and the average operating speed, it is recommended to raise the posted speed limit to 70 km/h. Additionally, to encourage drivers to slow down, the following traffic calming measures are recommended:

- Flashing beacons at stop signs
- Sightline Improvements (vegetation trimming)
- Full lane transverse bars
- On road message and pavement markings
- Speed feedback signs
- Dragon's teeth pavement markings
- Implement advisory speed warning signs or regulatory posted speed signs at the horizontal curves

5. Financial Considerations

The Public Works Traffic Calming Budget of \$125,000 with the GL code 40-15-2537 is to be utilized for the proposed improvements.

6. Alignment to Strategic Plan

The 2023-2026 Corporate Strategic Plan (CSP) was adopted by Council on June 12, 2023. The CSP reflects the priorities of utmost importance to the community and defines the obligations and commitments of the Township of King to its citizens and to the public. The CSP is aligned with the Townships long-term vision defined in the "Our King" Official Plan.

The CSP also aims to ensure that staff initiatives focus on and work towards supporting King's Vision, Mission and Values.

This report is in alignment with the CSP's Priority Area(s), and/or associated Objective(s) and/or Key Results(s):

Priority Area: Complete Communities

Objective: Improve our linear (transportation and environmental) and non-linear (facilities and parks) assets for continued community use and enjoyment.

Key Result: Not Applicable.

7. Conclusion

In response to a Council motion put forward at the September 9th, 2024, Council meeting, staff retained RJ Burnside to complete a detailed safety review of the 17th Sideroad from Highway 27 to 12th Concession corridor. This report is to provide Council with the results of the safety review conducted during Q4 2024 to Q1 2025 and to recommend that the quick win and short-term improvements identified are implemented.

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