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Town of Aurora
Council Report
No. PDS25-017

Subject: Pavement Rehabilitation Strategy for Murdock Avenue

Prepared by: James Jurrius, Program Manager, Asset Management

Department: Planning and Development Services

Date: January 28, 2025

Recommendation

1. That Report No. PDS25-017 be received for information.

Executive Summary

As directed by Council at the Committee of the Whole meeting on January 14, 2025, this report presents to Council the procedure for determining recommended pavement rehabilitation methods and scheduling related to Murdock Avenue.

- The road pavement condition assessment strategy has been developed in alignment with the Town's Council approved Asset Management Plan
- Based on the latest condition assessment of the Town's road inventory, Murdock Avenue is recommended for road rehabilitation in 2027.

Background

Since 2002, staff have conducted quantitative pavement condition assessments using specialized equipment for all municipal roads within the Town. The most recent condition assessment was completed in 2023.

Pavement condition, risk modelling, and affordability are captured in a pavement management software system, which produces multi-year intervention requirements with road rehabilitation recommendations, ranging from localized repair to full road reconstruction. This is overlaid with the condition assessment data for buried infrastructure to determine a fulsome rehabilitation plan.

Murdock Avenue was constructed as part of the Southold Phase 1 development in 1985. The road has historically received localized repairs such as pothole filling and crack sealing for any deficiencies that have been identified on-site when required.

Analysis

The road pavement condition assessment strategy has been developed in alignment with the Town's Council approved Asset Management Plan

The Town's condition assessment strategy for roads infrastructure uses quantitative survey data to monitor and evaluate the condition of pavement surface conditions for the Town's road network and determines the type and timeline of rehabilitation intervention required based on Council set Levels of Service, risk and available funding.

Based on the latest condition assessment of the Town's road inventory, Murdock Avenue is recommended for road rehabilitation in 2027

Staff undertook a pavement condition assessment in 2023 to obtain updated pavement condition and deficiencies for the Town's road inventory, including Murdock Avenue. The Town's Level of Service for road condition has been set to 70. The 2023 pavement condition assessment results concluded that the overall pavement condition index for the Town's roads was 70, with Murdock Avenue being rated at a 64. Based on the current condition of the pavement on Murdock Avenue, the condition of existing affiliated infrastructure, and budget thresholds, the road is recommended for pavement milling and overlay in 2027.

Advisory Committee Review

Not Applicable.

Legal Considerations

Not Applicable.

Financial Implications

Not Applicable.

Communications Considerations

There are no communications considerations as a result of this report.

Climate Change Considerations

Not Applicable.

Link to Strategic Plan

This report supports the Strategic Plan objective #2: Invest in sustainable infrastructure by maintaining and expand infrastructure to support forecasted population growth through technology, waste management, roads, emergency services and accessibility.

Alternative(s) to the Recommendation

Not Applicable.

Conclusion

Staff have undertaken a pavement condition assessment to identify optimal pavement rehabilitation candidates within the Town and determine the optimal pavement rehabilitation for Murdock Avenue. Based on the results of the condition assessment, Murdock Avenue is recommended for rehabilitation in 2027 for a mill and overlay intervention.

Attachments

None.

Previous Reports

None.

Pre-submission Review

Agenda Management Team reviewed on January 21, 2025.

Approvals

Approved by Marco Ramunno, Director, Planning and Development Services

Approved by Robin McDougall, Acting Chief Administrative Officer