Agenda – Executive Policy Committee – May 22, 2024

Report – Standing Policy Committee on Public Works – May 7, 2024

Item No. 5 Advance Warning Signs on Lagimodiere Boulevard at East Mint Drive (Transcona Ward)

STANDING COMMITTEE RECOMMENDATION:

On May 7, 2024, the Standing Policy Committee on Public Works did not concur in the recommendation of the Winnipeg Public Service and submitted the following to Council:

1. That the Winnipeg Public Service be directed to install advance warning signs on Lagimodiere Boulevard at East Mint Place for northbound traffic.

2. That the following eligibility criteria for the Land Dedication Reserve Fund be waived in this instance, namely:

    A. Funds may be utilized for:

        i. the acquisition of land for parks or recreation facilities;

        ii. the development of properties for parks and recreation purposes including such ancillary equipment and structures as may be necessary to that development;

        iii. the construction or renovation of recreation facilities on parks and recreation properties.

    B. The use of funds will result in the creation or continuation of a physical legacy of parks and recreation facilities for the City of Winnipeg.

3. That funding in the amount of $30,000.00, from the East Kildonan - Transcona Land Dedication Reserve (Transcona Ward allocation) be recommended for approval to the City of Winnipeg, to assist with the cost of the Advance Warning Sign on Lagimodiere Boulevard at East Mint Drive Project, subject to the following condition:

    A. Approval of final plans and specifications for the project by the City of Winnipeg.

4. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

Report – Standing Policy Committee on Public Works – May 7, 2024

DECISION MAKING HISTORY:

STANDING COMMITTEE RECOMMENDATION:

On May 7, 2024, the Standing Policy Committee on Public Works did not concur in the recommendation of the Winnipeg Public Service and submitted the following to the Executive Policy Committee and Council:

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3. That funding in the amount of $30,000.00, from the East Kildonan - Transcona Land Dedication Reserve (Transcona Ward allocation) be recommended for approval to the City of Winnipeg, to assist with the cost of the Advance Warning Sign on Lagimodiere Boulevard at East Mint Drive Project, subject to the following condition:

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4. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

Report – Standing Policy Committee on Public Works – May 7, 2024

DECISION MAKING HISTORY (continued):

STANDING COMMITTEE RECOMMENDATION (continued):

On January 9, 2024, the Standing Policy Committee on Public Works directed the Winnipeg Public Service to report back in 120 days on the installation of advance warning signs on Lagimodiere Boulevard at East Mint Drive for both northbound and southbound traffic.

On November 21, 2023, the Standing Policy Committee on Public Works further laid the matter over to its meeting on January 9, 2024.

On November 9, 2023, the Standing Policy Committee on Public Works further laid the matter over to its meeting on November 21, 2023.

David Grant submitted a communication with respect to the matter.

On October 10, 2023, the Standing Policy Committee on Public Works laid the matter over to its meeting on November 6, 2023.

COMMUNITY COMMITTEE RECOMMENDATION:

On September 25, 2023, the East Kildonan-Transcona Community Committee passed the following motion:

THEREFORE BE IT RESOLVED that the Standing Policy Committee on Public Works be requested to direct the Winnipeg Public Service to install advance warning signs on Lagimodiere Boulevard at East Mint Drive for both northbound and southbound traffic.

ADMINISTRATIVE REPORT

Title: Advance Warning Signs on Lagimodiere Boulevard at East Mint Place

Critical Path: Standing Policy Committee on Public Works

AUTHORIZATION

Author	Department Head	CFO	CAO
D. Patman, P.Eng.	J. Berezowsky	N/A	M. Jack

EXECUTIVE SUMMARY

The Public Service was directed to report back on the installation of advance warning signs on Lagimodiere Boulevard at East Mint Place. Advance warning signs are more commonly referred to as advance warning flashers or AWF.

Based on an evaluation of the intersection, the Public Service does not recommend advance warning flashers at this location.

RECOMMENDATIONS

1. That this report be received as information.

REASON FOR THE REPORT

On January 9, 2024, the Standing Policy Committee on Public Works directed the Winnipeg Public Service to report back in 120 days on the installation of advance warning signs on Lagimodiere Boulevard at East Mint Place for both northbound and southbound traffic.

IMPLICATIONS OF THE RECOMMENDATIONS

As this report is for information purposes only, there are no implications.

HISTORY/DISCUSSION

BACKGROUND INFORMATION

Advance warning flashers are located in advance of a traffic signal on some higher-speed, higher-volume roadways (see Figure 1). This device is used to alert motorists that the traffic signal ahead is red or is about to turn red.



Figure 1: Advance Warning Flashers on Fermor Avenue
(image source: Google Street View)

At the May 19, 2020, meeting of the Standing Policy Committee on Infrastructure Renewal and Public Works the report *Traffic Study – Yellow Advanced Flashing Lights* recommended advance warning flashers be installed at two locations. The Public Service also described the conditions used to evaluate the need for this treatment and provided a prioritized list of 15 locations for advance warning flasher installation. Each year a few of the prioritized locations are installed. Prior to the 2024 construction season, there are still nine of the originally identified 15 locations that have yet to have advance warning flashers installed.

DISCUSSION

In recommending the installation of advance warning flashers, the Winnipeg Public Service follows the guidance provided in the Transportation Association of Canada (2005) *Advance Warning Flashers: Guidelines for Application and Installation* which was used as the basis for developing *Technical Guideline A-19 Advance Warning Flashers*. The Technical Guideline is included as Appendix A for reference.

Table 1 lists all of the conditions considered as part of the evaluation and provides the evaluation for both approaches to the signalized intersection at Lagimodiere Boulevard and East Mint Place. The evaluation concludes that advance warning flashers are not required on either approach to the intersection.

Advance warning flashers in advance of a traffic signal may be considered when one or more of the conditions listed below exist on the approach to a signalized intersection. Generally, a location where two or more of the conditions exist would strongly suggest that advance warning flashers be considered. Posted approach speed, truck traffic, and minor road traffic volume should be considered supporting conditions, and by themselves would not typically require an advance warning flasher.

Table 1: Advance Warning Flasher Evaluation for Lagimodiere and East Mint Place

Evaluation Criteria	**Northbound Lagimodiere**	**Southbound Lagimodiere**
Primary Conditions		
Inadequate sight distance to primary signal head	no	no
First signalized intersection approaching city	no	no
Significant downhill grade	no	no
Historical safety concern	no[1]	no[1]
Supporting Conditions		
Posted approach speed ≥ 70 km/h	**yes** (80 km/h)	**yes** (80 km/h)
Greater than 10% heavy truck volume	no	no
Minor road volumes >13,000 daily volume	no[2] (2,000)	no[2] (2,000)
Engineering judgement	**NO**	**NO**

1 Based on 2015-2019 fatal and injury network screening collision data and relative to other similar intersections.
2 Based on Average Daily Traffic estimated from expansion of 4-hour count from Lagimodiere and East Mint Place intersection.

Following the Transportation Division's *Technical Guideline A-19 for Advance Warning Flashers,* the installation of advance warning flashers is not recommended for northbound or southbound Lagimodiere Boulevard at the intersection of East Mint Place.

Advance warning flashers are a relatively expensive component of a signalized intersection and their installation should be limited to the locations where the need has been confirmed. A typical installation of advance warning flashers for one direction of travel would add approximately $30,000 to the cost of an intersection and introduces challenges to the traffic signal timing.

The Technical Guideline used by the Public Service is based on current research and no changes are recommended at this time.

FINANCIAL IMPACT

Financial Impact Statement Date: March 21, 2024

Project Name:
Advance Warning Signs on Lagimodiere Boulevard at East Mint Place

COMMENTS:

As this report is for information purposes, there are no financial impacts.

J. Ruby, 2024-03-26
J. Ruby CPA, CA
Manager of Finance & Administration

CONSULTATION

This Report has been prepared in consultation with: N/A

OURWINNIPEG POLICY ALIGNMENT

OurWinnipeg 2045
This report is in accordance with OurWinnipeg2045 as per:

- ***Policy 4.10 Transportation Safety:*** Design, construct, maintain, and regulate an integrated and sustainable transportation system and related infrastructure that optimize safe, connected and reliable mobility, and minimize severe injuries and fatalities for all road users.

WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

Consideration was given as to whether this report connects to the Winnipeg Climate Action Plan (CAP), and it was determined that the CAP is not applicable to this specific report.

WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

Consideration was given as to whether this report connects to the Winnipeg Poverty Reduction Strategy (PRS) and its Goals and Objectives, and it was determined that the PRS is not applicable to this specific report.

SUBMITTED BY

Department: Public Works
Division: Transportation
Prepared by: K. Patmore, M.Sc., P.Eng., Regional Traffic Engineer
Date: March 26, 2024

Attachment:
Appendix A *Technical Guideline A-19 Advance Warning Flashers*