

## **Traffic Control Signals - Humberwood Boulevard and Kingsplate Crescent**

**Date:** November 14, 2024

**To:** Etobicoke York Community Council

**From:** Director, Traffic Management, Transportation Services

**Wards:** Ward 1, Etobicoke North

### **SUMMARY**

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As the Toronto Transit Commission (TTC) operates a transit service on Humberwood Boulevard, City Council approval of this report is required.

Transportation Services is requesting approval to install traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent. The traffic control signals will provide enhanced safety for all road users and is justified based on the assessment undertaken.

### **RECOMMENDATIONS**

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The Director, Traffic Management, Transportation Services recommends that:

1. City Council authorize the installation of traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent/Private Access.

### **FINANCIAL IMPACT**

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The estimated cost for installing traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent is \$250,000. Funding would be subject to availability and competing priorities within the Transportation Services 2025 Capital Budget.

### **DECISION HISTORY**

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This report addresses a new initiative.

## COMMENTS

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Transportation Services was requested by the Ward Councillor and area residents to investigate the feasibility of installing traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent.

### Existing Conditions

Humberwood Boulevard is characterized by the following conditions:

- It is a two-lane, east-west collector roadway
- It operates two-way traffic on a pavement width of approximately 10.8 metres
- The daily two-way traffic volume is approximately 8,150 vehicles
- The speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There is TTC service provided by bus routes No 37 and 36A
- There are sidewalks located on both sides of the street.

Kingsplate Crescent is characterized by the following conditions:

- It is a two-lane, north south local roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 200 vehicles
- The speed limit is 30 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service provided
- There are sidewalks located on one side of the street

Humberwood Boulevard and Kingsplate Crescent forms a "T" type intersection. Kingsplate Crescent is stop-sign controlled while Humberwood Boulevard is uncontrolled free-flow. The driveway to a condominium complex servicing 700 and 710 Humberwood Boulevard is located opposite Kingsplate Crescent and comprises the fourth leg of the intersection.

The adjacent land use in this area is a mix of single family residential with two high rise residential building located on the north side of Humberwood Boulevard, opposite Kingsplate Crescent. The closest adjacent traffic controls are located approximately 510 metres to the southeast at Rexdale Boulevard and approximately 660 metres to the northwest at Morning Star Drive, both are in the form of traffic control signals.

A map of the area is included in Attachment 1.

### Traffic Control Signals

To determine the need for traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent, staff rely on the justification criteria as outlined in the Ontario Traffic Manual (OTM) Book 12. The OTM justification criteria includes factors such as volume of vehicles and pedestrians, delay to cross traffic, and collision history. In addition to these technical justifications, staff consider an environmental checklist which includes consideration of road width, posted speed limit, operating

speeds, adjacent land uses, pedestrian desire lines and demographics, presence of a transit stop, sight lines, and distance between existing crossing opportunities.

As part of the investigation, staff conducted vehicle and pedestrian counts on Thursday November 17, 2022, at the subject intersection. The results of the counts and collision hazard are summarized in Table 1. The "Collision hazard" criterion is based on the number of collisions potentially preventable by the installation of traffic control signals. Collision history provided by the Toronto Police Service for the three-year period ending December 31, 2023, disclosed 1 collision at the subject intersection that was potentially preventable by the installation of traffic control signals.

Table 1: Warrant Compliance - Humberwood Boulevard and Kingsplate Crescent

<b>Justification</b>	<b>Compliance level</b>
Minimum vehicular volume	68%
Delay to cross traffic (pedestrians and vehicles)	77%
Collision hazard	7%

To meet the justification criteria for the installation of traffic control signals, one of the justifications must be 100 percent satisfied or both the minimum vehicular volume and delay to cross traffic justifications must be at least 80 percent satisfied. Based on the results in Table 1, the installation of traffic control signals is not justified. However, it was noted that significant traffic was generated from the minor street/private driveway.

In regard to the environmental checklist, staff noted the following environmental factors:

- the long spacing between traffic control signals on Humberwood Boulevard;
- the presence of transit stops in both directions on Humberwood Boulevard that attract pedestrians to cross the street;
- the pedestrian generators in the immediate area, including two multi story condominium buildings on the north side of the intersection, that attract vulnerable pedestrians including children to cross the street; and
- More than 10 metres wide two-lane cross-section on Humberwood Boulevard, as well as the volume of traffic using this street.

In considering the above environmental factors, Transportation Services recommends the installation of traffic control signals at the intersection of Humberwood Boulevard and Kingsplate Crescent, as it will provide enhanced safety for all road users.

The TTC has been consulted and concurs with these findings. TTC has recommended the extension of their platform on the north side of Humberwood Boulevard west of Kingsplate Crescent.

Staff recommend the installation of traffic control signals based on the technical and environmental criteria including the long spacing between existing traffic control signals and the presence of pedestrian generators in the area.

### **Other Considerations**

It should be noted that the installation of traffic control signals will have the following additional impacts:

- There is potential for increase in delays to transit service on Humberwood Boulevard.

The Ward Councillor has been advised of the recommendation in this report.

### **CONTACT**

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### **SIGNATURE**

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Roger Browne, M.A.Sc., P. Eng.  
Director, Traffic Management, Transportation Services

### **ATTACHMENTS**

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Attachment 1: Map - Traffic Control Signals - Humberwood Boulevard and Kingsplate Crescent

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