

TRAFFIC SAFETY COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: LEFT TURN LANE ON RUMBLE STREET AT MACPHERSON AVENUE

RECOMMENDATIONS:

1. THAT Council authorize the installation of an eastbound left turn lane on Rumble Street at MacPherson Avenue, including related intersection upgrades as outlined in this report, at an estimated cost of \$45,000 (inclusive of HST).
2. THAT Council send a copy of this report to Ms. Elena Awchoula, Strata Manager, Crosby Property Management Ltd., Suite 600, 777 Hornby Street, Vancouver, BC, V6Z 1S4.
3. THAT Council send a notice to affected homeowners near the intersection of Rumble Street and MacPherson Avenue advising them of the proposed changes.

REPORT

The Traffic Safety Committee, at its meeting held on 2011 September 06, received and adopted the *attached* report responding to a request for an eastbound left turn lane on Rumble Street at MacPherson Avenue.

Respectfully submitted,

Councillor S. Dhaliwal
Chair

Councillor C. Jordan
Vice Chair

Councillor P. McDonell
Member

Copied to:	City Manager Director Engineering Director Finance
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TO: CHAIR AND MEMBERS
TRAFFIC SAFETY COMMITTEE

DATE: 2011 August 09

FROM: DIRECTOR ENGINEERING

FILE: 38000 20
Ref: Traffic Safety

SUBJECT: LEFT TURN LANE ON RUMBLE ST AT MACPHERSON AVE

PURPOSE: To respond to a request for an eastbound left turn lane on Rumble St at Macpherson Ave

RECOMMENDATIONS:

1. **THAT** The Committee recommend to Council the installation of an eastbound left turn lane on Rumble St at MacPherson Ave, including related intersection upgrades as outlined in this report, at an estimated cost of \$45,000 (inclusive of HST).
2. **THAT** A copy of this report be sent to Ms. Elena Awchoula, Strata Manager, Crosby Property Management Ltd., Suite 600, 777 Hornby St, Vancouver, BC, V6Z 1S4.
3. **THAT** A notice be sent to affected homeowners near the intersection of Rumble and MacPherson advising them of the proposed changes.

REPORT

1.0 BACKGROUND

In 2011 April, the City received a letter from Ms. Elena Awchoula, Strata Manager, on behalf of the Council for Strata Plan BCS 3723, MacPherson Walk West. MacPherson Walk West is located at 5661 Irmin St which is one block north of the subject intersection, east of MacPherson Ave. The letter requested the installation of a left turn lane on Rumble at MacPherson due to concerns about potential collisions and safety.

2.0 REVIEW

The intersection layout of Rumble and MacPherson is unconventional because the north leg of Macpherson is off-set approximately 25 metres east from the south leg (*see Figure 1*). The intersection of the north leg of MacPherson and Rumble is signalized, while the intersection of the south leg of MacPherson and Rumble is stop controlled with a painted right-in-right-out diverter on MacPherson. Rumble St is classified as a Major Collector roadway with weekday

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From: Director Engineering
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traffic volumes of about 15,000 vehicles. MacPherson Ave north of Rumble is classified as a Local Collector with weekday traffic volumes of about 3,000 vehicles. MacPherson Ave south of Rumble is classified as a Local Street with about 750 vehicles per day. The difference in the volume of traffic along MacPherson north and south of Rumble reflects the different land uses. South of Rumble is a single family neighbourhood, while north of Rumble is predominantly a higher density multi-family neighbourhood, including Burnaby South Secondary School and Burnaby South Fitness and Leisure Centre. Additional multi-family developments north of Rumble St are anticipated in the future that would further increase traffic volumes along MacPherson north of Rumble.

3.0 DISCUSSION

Field observations at the intersection in July showed that about 68 vehicles turn left from eastbound Rumble to northbound Macpherson on a weekday afternoon between 4:00 and 5:00 pm when traffic volumes are typically higher. During this period, eastbound traffic queues because of left turning vehicles reached a maximum length of about 8-10 vehicles. The majority of queued vehicles were attempting to proceed east along Rumble. This queue is anticipated to be longer during non-summer months. It was also observed that eastbound vehicles waiting to turn left may also impede northbound vehicles on MacPherson from making a right turn onto Rumble.

To reduce delays and improve traffic operations at the intersection, the installation of a short left turn lane for eastbound traffic is recommended. The left turn lane would also enhance safety by reducing potential rear end collisions related to left turning vehicles. A review of collision data for the intersection did not reveal any unusual patterns; however, it did show the occurrence of some left turn related collisions that may have been mitigated by a left turn lane.

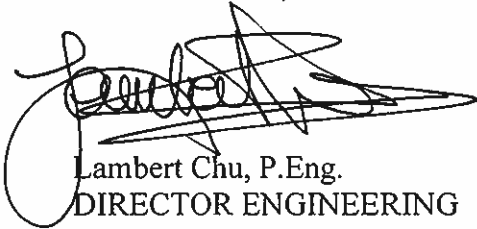
To facilitate the installation of the eastbound left turn lane, it is necessary to widen the pavement on the south side of Rumble through the intersection. In doing so, it is proposed to finish the roadway at the intersections to a final standard with concrete curb and gutter, a grass boulevard, a raised right-in-right-out diverter, and an interim asphalt sidewalk. The extent of the proposed work is shown in *Figure 2*. The intersection changes will help to prevent vehicles from parking on the boulevard on the south side of Rumble St near the intersection. The current parking on the boulevard near the intersection poses a safety hazard due to potential confusion by other drivers because of unexpected manoeuvres by vehicles emerging from or attempting to park on the boulevard. The changes will also enhance pedestrian safety by providing a sidewalk on the south side of Rumble and eliminating any conflicts with vehicles along the south boulevard.

The resulting loss of on-street parking by some residents is mitigated by the fact that all have off-street parking opportunities at the rear of their property. Additional nearby parking is also available along MacPherson or further along on Rumble. Staff will notify affected residents and discuss any concerns prior to proceeding with the changes.

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4.0 RECOMMENDATIONS

A review was completed in response to a request for an eastbound left turn lane on Rumble at MacPherson. The review showed that the installation of an eastbound left turn lane would help to reduce vehicle delays, improve traffic operations and enhance safety. To facilitate the left turn lane, additional roadway upgrades through the intersection are required. This includes the widening of the intersection on the south side and installation of curb and gutter, grassed boulevard and asphalt sidewalk. These changes would further enhance safety by removing parking on the boulevard at the intersection. All affected residents will be notified prior to any changes. The recommended left turn lane and intersection upgrades are estimated to cost \$45,000 inclusive of HST. Funds are available in the Traffic Management component (Traffic Control Devices) of the 2011 Annual Financial Plan.



Lambert Chu, P.Eng.
DIRECTOR ENGINEERING

ZR/DL/br

Copied to: City Manager
Director Finance

Attachments

Rumble St and MacPherson Ave

FIGURE 1

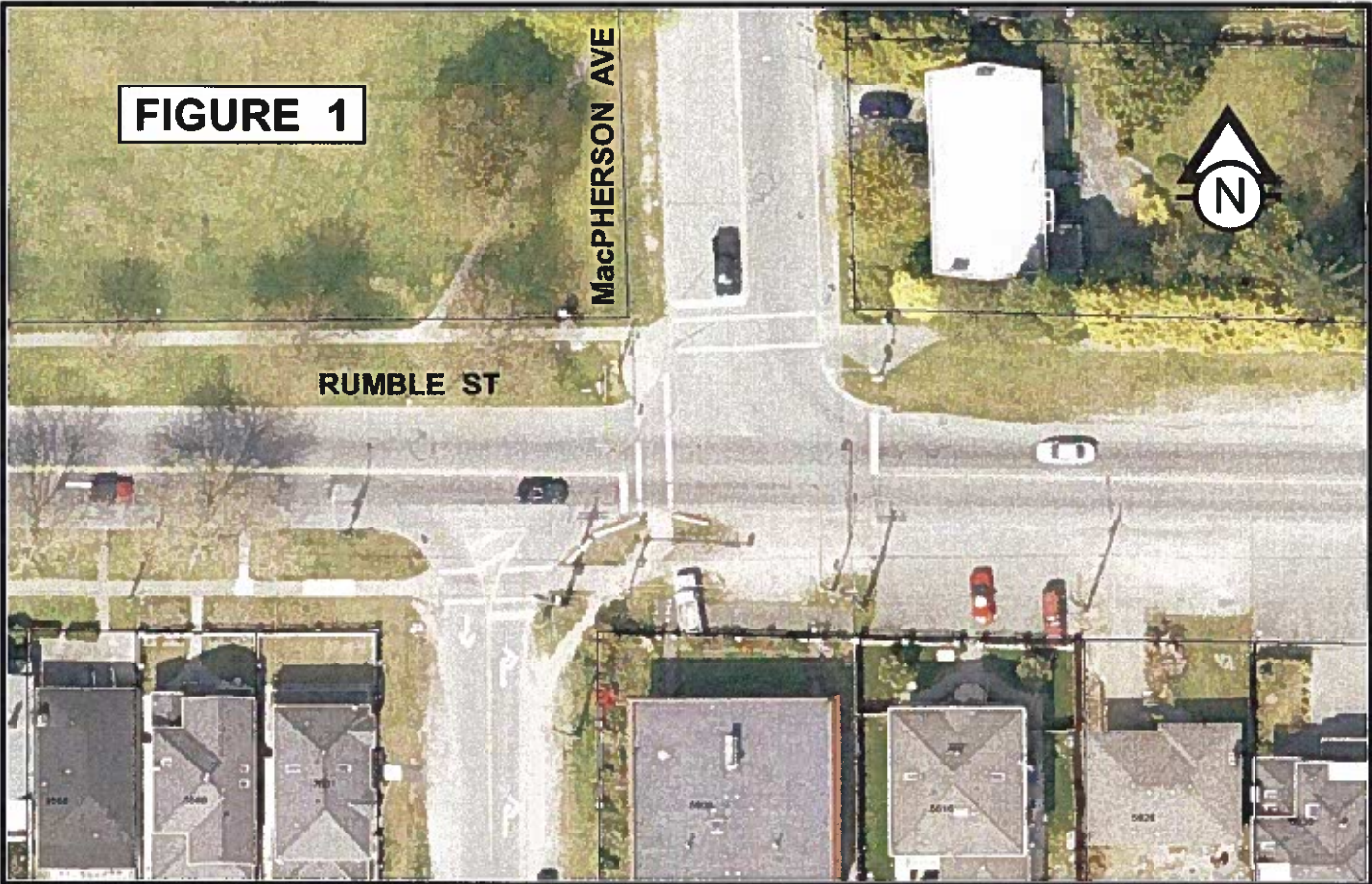


FIGURE 2

