

Request for Transportation Standing Committee Consideration

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| <input checked="" type="checkbox"/> Agenda Item
(Submitted to Municipal Clerk's Office by Noon at least 5 working days prior to the meeting) | <input type="checkbox"/> Added Item
(Submitted to Municipal Clerk's Office by Noon at least one day prior to meeting) | <input type="checkbox"/> Request from the Floor |
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Date of Meeting: June 14, 2016

Subject: Transit Priorities Opportunities Study

Motion for Transportation Standing Committee to Consider:

That Transportation Standing Committee request a staff report outlining:

- a) the possible transfer of responsibility for Transit Priority Measures (TPM) funding from Halifax Transit to Transportation & Public Works
- b) A plan to implement the full list of proposed TPMs listed in the Staff Report dated April 18, 2016 during the 2017/18 fiscal year

And that this report shall be returned to the committee in sufficient time that it may be considered as a proposal for possible inclusion in the 2017/18 capital budget.

Reason:

Use of "transit priority measures" or TPMs has become the North American norm to create "rapidways" for buses, to make it easier for transit vehicles to get through gridlock. This means that commuters on transit are already able to cut through traffic congestion faster than people travelling in cars, without creating bus only lanes.

TPMs are strategies that help buses move quickly along their routes. These measures can involve physical improvements to the roadway, with the most obvious example being dedicated lanes through congested areas. A less dramatic, but still effective approach is that of queue-jumping lanes, which allow buses to move ahead of congested traffic at intersections.

The information report outlines a modest list of capital projects that would be implemented over five years, for just under \$800,000 the entire list of projects could be completed in one year and the positive benefits measured.

Outcome Sought:

A staff report with recommendation or alternative that may allow Council to direct this funding change and work to be done as a part of the upcoming budget process.

Councillor Mason

District 7



P.O. Box 1749
Halifax, Nova Scotia
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Info Item No. 4
Transportation Standing
Committee **April 28, 2016**

TO: Chair and Members of Transportation Standing Committee

Original Signed

SUBMITTED BY:

Dave Reage, Acting Director, Halifax Transit

Original Signed

Bob Bjerke, Director and Chief Planner, Planning & Development

DATE: April 18, 2016

SUBJECT: Transit Priority Opportunities Study

INFORMATION REPORT

ORIGIN

At its meeting of October 29, 2014, Halifax Regional Council approved a motion to enter into an agreement with the Province of Nova Scotia to undertake a number of cost-shared projects including the Transit Priority Measures Study.

The approved 2015-16 Planning & Development Business Plan included this deliverable: "On-street opportunities for transit priority measures will be evaluated and ranked for future implementation."

LEGISLATIVE AUTHORITY

The *Halifax Regional Municipality Charter* Section 322(1) states that "Council may design, lay out, open, expand, construct, maintain, improve, alter, repair, light, water, clean, and clear streets in the Municipality."

BACKGROUND

In January 2015 contract 14-348 was awarded to WSP Canada to undertake the Transit Priority Measures Study. That study was completed in April, 2016.

Increasing the priority of transit in the road network is one of the principles of the Moving Together Forward Plan approved by Halifax Regional Council on April 12, 2016.

DISCUSSION

Transit priority measures are physical measures constructed into streets or modifications to traffic control that provide priority to transit buses. A number of priority measures have been constructed over the past fifteen years and continue to operate safely and effectively. The aim of the Transit Priority Measures Opportunities Study was to identify a number of opportunities to implement measures, to develop a methodology to assess cost-effectiveness of each measure, and to create a prioritized list for implementation.

The study began by identifying nineteen potential locations where transit priority opportunities may be available. Following a screening process, the list was narrowed to thirteen locations for more detailed evaluation. Functional layout plans were developed for each location and estimates for capital and operating cost were developed. Both in-field measurement and computer simulation were used to determine changes in delay for both buses and vehicles. Total time saving was calculated on a per-person basis. The results of the comparative analysis are provided in Appendix A and were used to develop a five-year implementation plan.

It should be noted that the functional designs produced were intended to inform the cost benefit analysis, and are subject to final detailed design and analysis. Some variations may exist between the measures proposed by the study and measures that are implemented.

One of the measures identified in the study (see Attachment A – Transit Priority Measures Study – Cost Summary Table), specifically the measure identified at Main Street and Hartlen Street, was implemented in July 2015. Halifax Transit intends to implement the measure identified at Robie Street and Almon Street in the coming months. In addition, design work has been completed for the measure along Windmill Road southbound near Seapoint Road, and construction of this measure may proceed during the 2016 construction season. Additional measures will be considered as budget permits.

The top nine projects on the list have been demonstrated in the study to provide tangible transit benefits with no substantive impact on traffic flow. These projects will form the basis for preparing future Project Budgets for approval by Regional Council. The remaining projects on the list will require further assessment or design modification before being considered for future implementation.

The full report is available at www.halifax.ca/transit/TransitPriorityMeasures.php

FINANCIAL IMPLICATIONS

There are no financial implications associated with this report as it is only providing information to the Transportation Standing Committee.

As part of the approved 2016/17 Capital Budget, \$200,000 was allocated to Halifax Transit project CM000009 Transit Priority Measures to commence implementation of the measures identified in the report.

COMMUNITY ENGAGEMENT

No community engagement has been undertaken as part of this study.

ATTACHMENTS

Attachment A – Transit Priority Measures Study – Cost Summary Table

A copy of this report can be obtained online at <http://www.halifax.ca/commcoun/index.php> then choose the appropriate Community Council and meeting date, or by contacting the Office of the Municipal Clerk at 902.490.4210, or Fax 902.490.4208.

Report Prepared by: David McCusker, P.Eng., Program Manager, Transportation Planning, 902.490.6696

Report Approved by:

Original Signe

Patricia Hughes, Acting Manager, Planning & Scheduling, 902.490.6287

Table 3-1 - Cost Summary Table

TPM Location	TPM #	Estimated Capital Cost ¹	Annual Change in Cost to Transit Agency ²	Annual Change in Cost to road users (including Transit Riders)	Estimated Annual Maintenance Costs	Payback Period to the Transit Agency (years) ³	Overall Payback Period (years)
Macdonald Bridge @ Wyse Road	1	\$12,000	-\$2,800	-\$25,100	\$0	4.3	0.4
Windmill Road @ Victoria Road (NB)	2	\$299,000	-\$15,200	-\$132,700	\$800	18.7	2.0
Windmill Road @ Seapoint Road (SB)	3	\$276,000	-\$14,100	-\$114,000	\$800	18.5	2.2
Main Street @ Gordon Avenue	4	\$4,000	-\$7,200	\$260,900	\$0	0.6	(0.02)
Portland Street @ Woodlawn Road	5	\$68,000	-\$3,200	-\$18,200	\$0	21.3	3.2
Barrington Street @ Macdonald Bridge Ramp	6	\$83,000	-\$2,000	-\$19,400	\$0	41.5	3.9
Windmill Road @ Akerley Boulevard	7	\$332,000	-\$1,500	-\$16,000	\$300	184.4	19.3
Robie Street @ Almon Street	8	\$6,000	-\$2,000	-\$14,800	\$0	3.0	0.4
Main Street @ Hartlen Street	9	\$4,000	-\$10,700	-\$40,500	\$0	0.4	0.08
Chebucto Road @ Connaught Avenue	10	\$99,000	-\$3,600	-\$34,200	\$300	25.4	2.6
Mumford Road @ Chebucto Road	11	\$10,000	-\$3,800	\$1,400	\$0	2.6	4.2
Robie Street @ Quinpool Road	12	\$20,000	-\$3,200	\$655,400	\$0	6.3	(0.03)
Cobequid Terminal @ Cobequid Road	13	\$4,000	-\$1,400	\$29,900	\$0	2.9	(0.1)

1. This estimate of probable construction cost is approximate only. Actual cost may vary significantly from this estimate due to market conditions. Details for each shown in Appendix B.
 2. Annual Change in Cost to the Transit Agency does not include Change in Cost of ridership delay.
 3. The Payback Period to the Transit Agency is the Capital Cost divided by the Annual Savings to Transit minus the Annual Maintenance. This does not include time savings to transit riders.

