

City of Mississauga Corporate Report



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| <p>Date: June 15, 2021</p> <p>To: Chair and Members of General Committee</p> <p>From: Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works</p> | <p>Originator's files:</p> <hr/> <p>Meeting date: June 23, 2021</p> |
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Subject

2021 Traffic Signal Supply, Installation and Modernization Program

Recommendation

That the 2021 Traffic Signal Supply, Installation and Modernization Program as outlined in the report from the Commissioner of Transportation and Works, dated June 15, 2021 and entitled "2021 Traffic Signal Supply, Installation and Modernization Program", be approved.

Background

The 2021 capital budget provides funds for the Supply, Installation and Modernization of Traffic Control Signals throughout the City. Typically, intersections are signalized upon realization of technical warrants, or in response to anticipated development. Existing Traffic Control Signals are modernized when the age of equipment and infrastructure, as well as anticipated increased maintenance costs, indicate that upgrades and/or replacements are required.

In consultation with the local Ward Councillors, and based on a prioritized warranted list provided by Road Safety staff, locations within Ward 1 and 9 were identified where Special Project funding could be utilized. The following intersections were identified as locations that would benefit from the installation of Traffic Control Signals:

- Ward 1 - Lakeshore Road West and Front Street – (Appendix 1)
- Ward 9 - Aquitaine Ave, west of Montevideo Road (Mid-block) – (Appendix 4)

Comments

The need for the supply and installation of a new Traffic Control Signal is indicated when signal warrant criteria are satisfied, when traffic conditions have changed significantly rendering the existing form of traffic control inefficient and/or when imminent adjacent development indicates that signalization will be required.

The recommended new Traffic Control Signal installation locations for 2021 under these criteria are listed below and illustrated in the attached appendices. The below list also includes the two above mentioned locations where Special Project funding will be utilized for the implementation of Traffic Control Signals.

- Lakeshore Road West and Front Street – Ward 1 Funded (refer to Appendix 1)
- Rathburn Road East, west of Golden Orchard Drive (Mid-block) - Ward 3 (refer to Appendix 2)
- Bristol Road West and Whitehorn Avenue - Ward 6 (refer to Appendix 3)
- Aquitaine Ave, west of Montevideo Road (Mid-block) - Ward 9 Funded (refer to Appendix 4)
- Queen Street North and Matlock Avenue - Ward 11 (refer to Appendix 5)

The recommended Traffic Control Signal modernization locations for 2021 are listed below and illustrated in the attached appendices:

- Bloor Street and Mississauga Valley Boulevard - Ward 4 (refer to Appendix 6)
- Goreway Drive and Joliffe Avenue - Ward 5 (refer to Appendix 7)
- Tomken Road and Meyerside Drive – Ward 5 (refer to Appendix 8)
- Burnhamthorpe Road West and Mississauga Road - Ward 8 (refer to Appendix 9)
- Winston Churchill Boulevard and Tours Road - Ward 9 (refer to Appendix 10)

Financial Impact

As per the 2021 capital budget, an amount of \$1,070,000 is approved for the supply and installation of new Traffic Control Signals (PN 21198) and an amount of \$1,200,000 is approved for the modernization of existing Traffic Control Signals (PN 21177). The estimated supply and installation cost for a new Full Traffic Control Signal and a Mid-block Pedestrian Signal is approximately \$180,000/\$115,000 respectively, and the estimated cost for the modernization of an existing Traffic Control Signal is approximately \$240,000. It is recommended that five new Traffic Control Signals be installed at a total cost of \$900,000 and the modernization of five existing Traffic Control Signals for a total cost of \$1,200,000. Any residual surplus funds from the new Traffic Control Signals budget amount will be allocated to Phase Updates and any related modifications to existing Traffic Control Signals.

On May 22nd, 2019 a motion was passed by Council to establish capital projects up to a total amount of \$2 million per ward, to be used at the discretion of each local Councillor for infrastructure projects.

The following new Traffic Control Signal projects are not funded. Funding for these projects will be provided through councillor's special gas tax funding and requested with the June 2021 WIP corporate report:

| Project | Estimate | PN# |
|---|-----------|--------|
| Ward 1 - Lakeshore Road West and Front Street | \$180,000 | A21198 |
| Ward 9 - Aquitaine Ave, west of Montevideo Road (Mid-block) | \$115,000 | B21198 |

Conclusion

As part of the 2021 Traffic Signal Supply, Installation and Modernization Program, staff recommend the supply and installation of five new Traffic Control Signals for a total capital cost of \$900,000 and the modernization of five existing Traffic Control Signals for a cost of \$1,200,000. Sufficient Capital Budget exists for the supply and installation of these Traffic Control Signals.

There is sufficient interest from local area residents, as well as support from the Local Ward Councillors, for the implementation of Traffic Control Signals at the intersections of Lakeshore Road West at Front Street and Aquitaine Ave, west of Montevideo Road (Mid-block).

Attachments

- Appendix 1: Proposed New Traffic Control Signal - Lakeshore Road West and Front Street (Ward 1)
- Appendix 2: Proposed New Traffic Control Signal - Rathburn Road East, west of Golden Orchard Drive (Mid-block) (Ward 3)
- Appendix 3: Proposed New Traffic Control Signal - Bristol Road West and Whitehorn Avenue (Ward 6)
- Appendix 4: Proposed New Traffic Control Signal - Aquitaine Ave, west of Montevideo Road (Mid-block) (Ward 9)
- Appendix 5: Proposed New Traffic Control Signal - Queen Street North and Matlock Avenue (Mid-block) (Ward 11)
- Appendix 6: Proposed Traffic Control Signal Modernization - Bloor Street and Mississauga Valley Boulevard (Ward 4)
- Appendix 7: Proposed Traffic Control Signal Modernization - Goreway Drive and Joliffe Avenue (Ward 5)
- Appendix 8: Proposed Traffic Control Signal Modernization - Tomken Road and Meyerside Drive (Ward 5)
- Appendix 9: Proposed Traffic Control Signal Modernization - Burnhamthorpe Road West and Mississauga Road (Ward 8)
- Appendix 10: Proposed Traffic Control Signal Modernization - Winston Churchill Boulevard and Tours Road (Ward 9)



Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

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