

Scarborough Minor Arterial and Collector Road Speed Limit Reductions as Part of Vision Zero Speed Management Strategy

Date: November 15, 2019

To: Scarborough Community Council

From: Director, Project Design and Management, Transportation Services

Wards: Wards 20, 21, 22, 23, 24 and 25

SUMMARY

This staff report is about a matter for which Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City policy or by-laws.

The purpose of this report is to recommend speed limit reductions on minor arterials and collector roadways in Scarborough Community Council area as part of the Vision Zero Road Safety Plan Speed Management Strategy.

RECOMMENDATIONS

The Director Project Design and Management, Transportation Services, recommends that:

1. Scarborough Community Council reduce the speed limit from 60 km/h to 50 km/h on the minor arterial road segments set out in Attachment 1 to the report dated November 15, 2019 from the Director, Project Design and Management, Transportation Services.
2. Scarborough Community Council reduce the speed limit from 60 km/h to 50 km/h on the collector road segments set out in Attachment 2 to the report dated November 15, 2019 from the Director, Project Design and Management, Transportation Services
3. Scarborough Community Council reduce the speed limit from 50 km/h to 40 km/h on the collector road segments set out in Attachment 3 to the report dated November 15, 2019 from the Director, Project Design and Management, Transportation Services

FINANCIAL IMPACT

The financial cost of installing the speed limit signs on the road segments included within this report is approximately \$178,500.00. Funding is available within the 2019-2028 Capital Budget and Plan for Transportation Services.

DECISION HISTORY

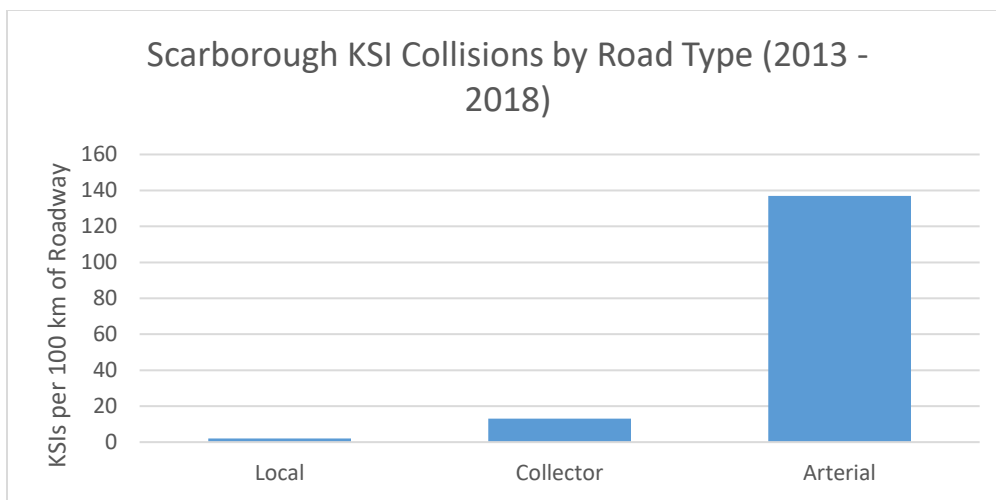
At its meeting of July 16, 17 and 18, 2019 City Council unanimously approved the Vision Zero 2.0 - Road Safety Plan Update, as amended. At this time, City Council approved speed limit reductions from 60 km/h to 50 km/h on nearly 250 kilometers of major arterial roadways across the City as part of the Speed Management Strategy outlined on page 21. Within this report, staff also committed to reviewing all minor arterial roadways with speed limits over 50 km/h and all collector roadways with speed limits over 40 km/h for speed limit reductions as part of the Vision Zero 2.0 Speed Management Strategy and submit reports to the appropriate Community Council for by-law amendments. The Council decision can be found at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.IE6.8>

COMMENTS

Higher speeds contribute to higher risk of serious injuries and fatalities by reducing driver reaction time, increasing the vehicle stopping distance, and inflicting more severe blunt force trauma on victims upon impact. Reduction of speed limits is a tool in the City's Speed Management Strategy which aims to reduce the number of road traffic crashes and the serious injury and death that can result from high vehicle speeds.

The figure below shows the rate of killed and serious injury (KSI) collisions in the Scarborough area per 100 km of roadway between 2014-2018, by road classification. The overrepresentation of KSIs on arterial and collector roads has informed the prioritization methodology of the Speed Management Strategy.



As part of the Speed Management Strategy, Transportation Services staff committed to bring forward recommendations to Community Council by end of 2019 to support city-wide speed limit reductions of 10 km/h on minor arterial roadways over 50 km/h and on collector roadways over 40 km/h.

Considerations of speed limit reductions were made for all minor arterial roads with current speed limits over 50 km/h and all collector roads with current speed limits over 40 km/h. Each segment was evaluated and exceptions to speed limit reductions were made based on the following criteria:

- Sections just off of Highway 401 (typically between on/off ramps);
- Sections through industrial areas;
- Sections with limited number of driveways present and/or very large boulevards with setback sidewalks; or
- Sections with wide, open streetscape.

The criteria is intended to exclude road segments where lower speed limits would be artificially low for the existing road environment and create significant speed differentials, which would be a safety concern. However, exceptions were not made in the following situations:

- Near schools or where appreciable pedestrian/cycling volumes are expected;
- Locations with history of speed-related collisions; or
- Locations with narrow or missing sidewalks.

Based on this review, this report recommends that the posted speed limit on approximately 35.8 kilometres (83%) of minor arterial currently at 60 km/h and 74.4 kilometres (70%) of collector roadways currently above 40 km/h in Scarborough District be reduced.

In order to increase effectiveness, the speed limit reductions recommended in this report would be paired with a robust public education campaign and a request for support from Toronto Police Service for targeted enforcement.

Data collection is required in order to support evaluation of speed limit reductions in both reducing the travel speed of vehicles, as well as the number and severity of KSI

collisions on the targeted roadways. Studying the effectiveness of this measure will be key in determining whether this practice should be extended to other roadways.

Due to the extent of speed limit changes being recommended across the city through the Speed Management Strategy, it is expected that the program of minor arterial and collector roadway speed limit reductions will be completed by the end of 2020. To most efficiently manage resources, this will be completed in a systematic, area-by-area method.

Even with the enhanced police enforcement and public education, speed limit reductions are just one part of the Speed Management Strategy. As outlined in the Vision Zero 2.0 staff report, the holistic Speed Management Strategy also includes proactive deployment of Watch Your Speed Signs, automated speed enforcement, road design improvements, and revised speed limit setting practices as key tools in order to achieve sustained, effective speed management.

Road design modifications are the most effective tool in reducing travel speed and this area is a renewed focus of the Vision Zero 2.0 plan. Transportation Services is working towards accelerating the delivery of geometric safety improvements, including quick-build interim measures, focusing on creating physical deterrence to high speed travel including narrowing or reducing turning radii to improve safety.

Following the implementation of the minor arterial and collector roadway speed limit reduction, staff will begin developing the program for reducing speed limits on local residential roads to 30 km/h on a neighbourhood basis. The City is no longer required to sign every individual street but only the streets that enter and exit the designated area at the boundary of the designated area. As outlined in the Vision Zero 2.0 staff report, this is envisioned to be a multi-year program, starting in 2021. The reductions will be rolled out on a systematic, ward-by-ward basis.

The Ward Councillors have been informed of the recommendations of this report.

CONTACT

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SIGNATURE

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Minor Arterial and Collector Road Speed Limit Reductions - Vision
Zero

ATTACHMENTS

Attachment 1 - Proposed Amendments to Speed Limits on Minor Arterial Roadways in Scarborough Community Council Area

Attachment 2 - Proposed Amendments to Speed Limits on Collector Roadways in Scarborough Community Council Area - 60 km/h to 50 km/h

Attachment 3 - Proposed Amendments to Speed Limits on Collector Roadways in Scarborough Community Council Area - 50 km/h to 40 km/h

Attachment 4 - Map of Proposed Speed Limit Reductions in Scarborough Community Council Area

Attachment 1 - Proposed Amendments to Speed Limits on Minor Arterial Roadways in Scarborough Community Council Area

Action	Highway	Between	Speed Limit
Repeal	Brimley Road	Kingston Road and Eglinton Avenue East	60
Repeal	Danforth Avenue	Eastwood Avenue and Kingston Road	60
Repeal	Danforth Road	Danforth Avenue and St. Clair Avenue East	60
Repeal	Finch Avenue East	Markham Road and Neilson Road	60
Repeal	Kennedy Road	Danforth Road and Steeles Avenue East	60
Add	Kennedy Road	St Clair Avenue East and Steeles Avenue East	60
Repeal	Lawrence Avenue East	Don Mills Road and Port Union Road	60
Add	Lawrence Avenue East	Don Mills Road and Morningside Avenue	60
Repeal	Middlefield Road	McCowan Road and Steeles Avenue East	60
Repeal	Morningside Avenue	Finch Avenue East and Sheppard Avenue East	60
Repeal	Morningside Avenue	Lawrence Avenue East and Sheppard Avenue East	60
Add	Morningside Avenue	Kingston Road and McLevin Avenue/Casebridge Court	60
Repeal	Neilson Road	Morningside Avenue and Sheppard Avenue East	60
Add	Neilson Road	Morningside Avenue and Finch Avenue East	60
Repeal	Pharmacy Avenue	Sheppard Avenue East and Steeles Avenue East	60
Repeal	St. Clair Avenue East	Kingston Road and Birchmount Road	60
Add	St. Clair Avenue East	Kennedy Road and Birchmount Road	60
Repeal	Steeles Avenue East	Brimley Road and Pickering Town Line	60
Add	Steeles Avenue East	Ninth Line and Pickering Town Line	60
Add	Steeles Avenue East	Brimley Road and McCowan Road	60
Repeal	Tapscott Road	Finch Avenue East and Steeles Avenue East	60
Repeal	Warden Avenue	A point 305 metres north of Mack Avenue and Steeles Avenue East	60
Add	Warden Avenue	St. Clair Avenue East and Steeles Avenue East	60

Attachment 2 - Proposed Amendments to Speed Limits on Collector Roadways in Scarborough Community Council Area - 60 km/h to 50 km/h

Action	Highway	Between	Speed Limit
Repeal	Beare Road	Steeles Avenue East and Finch Avenue East	60
Repeal	Gordon Baker Road	Pharmacy Avenue and Victoria Park Avenue	60
Repeal	Neilson Road	Morningside Avenue and Sheppard Avenue East	60
Add	Neilson Road	Finch Avenue East and Sheppard Avenue East	60
Repeal	Passmore Avenue	Middlefield Road and east end of Passmore Avenue	60
Repeal	Pickering Town Line	Finch Avenue East and Steeles Avenue East	60




Attachment 3 - Proposed Amendments to Speed Limits on Collector Roadways in Scarborough Community Council Area - 50 km/h to 40 km/h

Action	Highway	Between	Speed Limit
Add	Arbutus Crescent	Birchmount Road and Shropshire Drive	40
Add	Arkona Drive	Warden Avenue and Scarden Avenue	40
Add	Arnall Avenue	Pharmacy Avenue and Hunstmills Boulevard	40
Add	Artillery Street	Midland Avenue and Port Royal Trail	40
Add	Ashcott Street	Steeles Avenue East and Port Royal Trail	40
Add	Baldoon Road	Finch Avenue East and Crow Trail	40
Add	Bamburgh Circle	Warden Avenue (north intersection) and Warden Avenue (south intersection) - both halves of circle	40
Add	Bankwell Avenue	Brimorton Drive and Scarborough Golf Club Road	40
Add	Barbados Boulevard	Eglinton Avenue East and south end of Barbados Boulevard	40
Add	Barkdene Hills	Brimley Road South and Brooklawn Avenue	40
Add	Blackwell Avenue	Tapscott Road and Berner Trail	40
Add	Bonis Avenue	Birchmount Road and Kennedy Road	40
Add	Breckon Gate	Sheppard Avenue East and Murison Boulevard	40
Add	Brenyon Way	Sheppard Avenue East and Sewells Road	40
Add	Bridletowne Circle	Finch Avenue East (east intersection) and Finch Avenue East (west intersection) - only south half of circle	40
Add	Brimley Road	St. Clair Avenue East and Kingston Road	40
Repeal	Brimorton Drive	A point 101 metres west of Amberjack Boulevard and a point 103 metres east of Dolly Varden Boulevard	407
Repeal	Brimorton Drive	A point 15 metres west of Doerr Road and Camlac Place	40
Repeal	Brimorton Drive	A point 65 metres east of Gander Drive and a point 27 metres west of Bankwell Avenue	40
Add	Brimorton Drive	Brimley Road and Orton Park Road	40
Add	Brockley Drive	Lawrence Avenue East and Treewood Street	40
Add	Brooklawn Avenue	Kingston Road and Barkdene Hills	40
Add	Brookmill Boulevard	Birchmount Road and Tambrook Drive	40
Add	Brookshire Boulevard	McNicoll Avenue and Beverly Glen Boulevard	40
Add	Burcana Rd	Birchmount Road and west end of Burcana Road	40
Add	Bushby Drive	McCowan Road and Grangeway Avenue	40
Add	Canlish Rd	Lawrence Avenue East and Shropshire Drive	40
Add	Chaldean Street	Birchmount Road and Timberbank Boulevard	40
Add	Channel Nine Court	McCowan Road and south end of Channel Nine Court	40
Add	Civic Road	Warden Avenue and Sinnott Road	40
Add	Cleadon Road	McNicoll Avenue and Alexmuir Boulevard	40
Add	Collinsgrove Road	Kingston Road and Lawrence Avenue East	40
Add	Commander Boulevard	McCowan Road and Huntingwood Drive	40
Add	Conlins Road	Sheppard Avenue East and Military Trail	40
Repeal	Consilium Place	McCowan Road and Progress Avenue	40
Add	Cophorne Avenue	Midland Avenue and Port Royal Trail	40
Add	Corporate Drive	Progress Avenue (west intersection) and Progress Avenue (east intersection)	40
Add	Cowdray Court	Kennedy Road and east end of Cowdray Court	40
Add	Craigton Drive	Victoria Park Avenue and Pharmacy Avenue	40
Repeal	Dailing Gate	Milner Avenue and Burrows Hall Boulevard	40
Add	Dancy Avenue	Kennedy Road and Silver Springs Boulevard	40
Add	Daphne Road	Greencedar Circuit and Eastpark Boulevard	40
Repeal	Dearham Wood	Galloway Road and Toynbee Trail	40
Add	Dennett Drive	Brimley Road and Glen Watford Drive	40
Add	Dibgate Boulevard	Huntingwood Drive and Chartland Boulevard South	40
Add	Ellendale Drive	Vauxhall Drive and Forbes Road	40
Repeal	Ferncrest Gate	Victoria Park Avenue and Corinthian Boulevard	40
Repeal	Firebrace Road	Steeles Avenue East and Hunstmills Boulevard	40
Add	Forbes Road	Kennedy Road and Ellendale Drive	40
Add	Galloway Road	Lawrence Avenue East and Guildwood Parkway	40
Add	Gander Drive	Ellesmere Road and Brimorton Drive	40
Add	Glamorgan Avenue	Kennedy Road and Dundalk Drive	40
Add	Glen Springs Drive	Warden Avenue and Bridletown Circle	40
Add	Glen Watford Drive	Sheppard Avenue East and Stubbswood Square	40
Add	Glendinning Avenue	Pharmacy Avenue and Hunstmills Boulevard	40
Add	Golden Gate Court	Brimley Road and west end of Golden Date Court	40
Add	Grangeway Avenue	Progress Avenue and Bushby Drive	40
Add	Greencedar Circuit	Lawrence Avenue East and Markham Road	40
Add	Greenholm Circuit	Lawrence Avenue East and Markham Road	40
Add	Havendale Road	Kennedy Road and Glen Watford Drive	40

Add	Havenview Road	Sheppard Avenue East and Invergordon Avenue	40
Add	Highview Avenue	Kingston Road and McIntosh Street	40
Add	Howden Road	Lawrence Avenue East and Laura Secord Walk	40
Add	Hymus Road	Sinnott Road and west end of Hymus Road	40
Add	Idagrove Gate	Sheppard Avenue East and Braymore Boulevard	40
Add	Ionview Road	Eglinton Avenue East and Bertrand Avenue	40
Add	Island Road	Port Union Road and East Avenue	40
Add	John Stoner Drive	Morningside Avenue and Fawcett Trail	40
Repeal	Kelvin Grove Avenue	Steeles Avenue East and Canongate Trail	40
Add	Kenhatch Boulevard	McCowan Road and Sandhurst Circle	40
Add	Kennedy Road	Danforth Road and Highview Avenue	40
Add	Kilcullen Castle Gate	Midland Avenue and Silver Star Boulevard	40
Add	La Peer Boulevard	McNicoll Avenue and Brookmill Boulevard	40
Add	Lapsley Road	Sheppard Avenue East and Burrows Hall Boulevard	40
Add	Laura Secord Walk	Birchmount Road and Howden Road	40
Add	Lawrence Avenue East	Port Union Road and Rouge Hills Drive	40
Add	Lawson Road	Highland Creek Overpass and Highway 2A Ramp	40
Add	Ling Road	Lawrence Avenue East and Morningside Avenue	40
Add	Livingston Road	Guildwood Parkway and south end of Livingston Road	40
Add	Malley Road	Warden Avenue and Manville Road	40
Add	Manse Road	Kingston Road and Lawrence Avenue East	40
Add	Manville Road	Civic Road and Hymus Road	40
Add	McCowan Road	Trudelle Street and Eglinton Avenue East	40
Repeal	McLevin Avenue	Sewells Road and Morningside Avenue	40
Repeal	Midland Avenue	Kingston Road and Kelsonia Avenue	40
Add	Military Trail	Ellesmere Road and Highcastle Road	40
Add	Milner Business Court	Milner Avenue and Progress Avenue	40
Add	Mollard Road	Chartland Boulevard South and Huntingwood Drive	40
Repeal	Morecambe Gate	Victoria Park Avenue and Chester Le Boulevard	40
Add	Morrish Road	Ellesmere Road and east end of Military Trail	40
Add	Mount Castle Gate	Steeles Avenue and Wintermute Boulevard	40
Add	Muir Drive	Service Road and Bethune Boulevard	40
Add	Munham Gate	Nantucket Boulevard and Kennedy Road	40
Add	Old Finch Avenue	Morningside Avenue and Baffin Court	40
Add	Old Finch Avenue	Valley Centre Drive (west intersection) and Morningview Trail	40
Add	Old Kingston Road	Manse Road and Fairwood Crescent	40
Add	Orator Gate	Middlefield Road and Placentia Boulevard	40
Add	Poplar Road	Kingston Road and Guildwood Parkway	40
Add	Principal Road	Ellesmere Road and Canadian Road	40
Add	Production Drive	Progress Avenue and south end of Production Drive	40
Add	Purcell Square	Kennedy Road and Canongate Trail	40
Add	Queen Street East	Fallingbrook Road and Courcellette Road	40
Add	Rannock Street	Pharmacy Avenue and Craigton Drive	40
Add	Ridgetop Road	Rolark Drive and east end of Ridgetop Road	40
Add	Rosemount Drive	Bertrand Avenue and Eglinton Avenue East	40
Add	Rouge River Drive	Sheppard Avenue (east leg) and Sheppard Avenue (west leg)	40
Add	Rylander Boulevard	Tideswell Boulevard and Kingston Road	40
Add	Sandhurst Circle	South of Finch Avenue East (east leg) and South of Finch Avenue East (west leg)	40
Add	Sandown Avenue	Kingston Road and Midland Avenue	40
Add	Savarin Street	Danforth Road and east end of Savarin Street	40
Add	Service Road	Muir Drive and Markham Road	40
Add	Sharpe Street	Kingston Road and McIntosh Street	40
Add	Sherry Road	Warden Avenue and Sinnott Road	40
Add	Shorting Road	Nugget Avenue and Sheppard Avenue East	40
Add	Shropshire Drive	Arbutus Crescent and Kennedy Road	40
Add	Sinnott Road	Eglinton Avenue and Hymus Road	40
Add	South Shields Avenue	Midland Avenue and Alexmuir Boulevard	40
Add	Transway Crescent	Kennedy Road and South Service Road at Transway	40
Add	Treewood Street	Midland Avenue and Brockley Drive	40
Add	Tuxedo Court	Markham Road and east end of Tuxedo Court	40
Add	Upton Road	Warden Avenue and east end of Upton Road	40
Add	Vandorf Street	Sheppard Avenue East and Tideswell Boulevard	40
Add	Vauxhall Drive	Birchmount Road and Ellendale Drive	40
Add	Village Green Square	Kennedy Road and east end of Village Green Square	40
Add	Washburn Way	Tapscott Road and Sheppard Avenue East	40
Add	Wayside Avenue	Silver Springs Boulevard and Finch Avenue East	40
Add	Westlake Road	Kingston Road and Livingston Road	40

Attachment 4 Map of Proposed Speed Limit Reductions in Scarborough Community Council Area

Legend

-  Minor Arterial Roads reduced to 50km/h
-  Collector Roads reduced to 40km/h
-  Collector Roads reduced to 50km/h

