

C2

Communication

Transportation and Infrastructure

Advisory Committee – May 27, 2024

Item No. 1

2024 Neighbourhood Traffic Calming Pilot and Policy

Presentation to Transportation and
Infrastructure Advisory Committee

Traffic and Fleet Management Services

May 27, 2024



Presentation Overview

Background and Foundation

Plan Development Process

Pilot Projects

Traffic Calming Toolbox

Communications and Engagement

Timelines and Next steps





ROAD SAFETY PROGRAM

Increase road safety and raise public awareness

2021 / 2022



In-Service Road Safety and Corridor Operational Review

Identify safety measures for priority locations, community areas and corridors



Neighbourhood Traffic and Speed Management Plan

Improve safety and livability of neighbourhoods by calming traffic

2023



Construction Management and Work Zone Safety Plan

Develop guidelines to minimize impacts and maximize safety for construction workers and the public



Road Safety Strategic Plan

Foster partnerships and a data-driven approach for improving safety

2024



Network Screening and Annual Report

Prioritize safety resources for roads and intersections



Automated Speed Enforcement Plan

Use technology for enforcement in school zones and other community areas



Speed Compliance Plan

Address speeding behaviour with feedback to drivers

2025



Low-Cost Safety Countermeasures Plan

Implement low-cost measures such as pavement markings, signage, etc.

2026



Rail Transportation and Safety Plan

Improve mobility while minimizing noise at crossings near residential area



Heavy Traffic and Truck Routing Plan

Manage heavy vehicle and truck transport throughout the city



MOBILITY MANAGEMENT PROGRAM

Improve efficiency through innovation and technology

2021 / 2022



Traffic Signal Control System and Upgrades

Establish a traffic signal control system and upgrade field equipment



Pavement Markings and Signs

Replace and optimize markings and signs



Update Streetlights

Continue LED retrofit with smart adaptive features

2023



Traffic Signal Operations and Maintenance

Maximize the efficiency of traffic signal operations



Curbside Parking Management

Establish parking policies and procedures throughout the city



Traffic By-Law Consolidation

Consolidate the City's road-related by-laws



Intelligent Transportation System (ITS) Strategy and Plan

Establish a roll-out plan for existing and emerging smart mobility technologies

2024



Traveller Information Systems

Generate and present data to support travellers



SUSTAINABLE MOBILITY PROGRAM

Support active and sustainable transportation

2021 / 2022



School Crossing Guards

Manage the City's school crossing guard program



Safer School Zones Plan

Develop and implement safety measures near schools for traffic, pedestrians, and pick-ups/drop-offs



Input into Development Planning

Provide insights to help the City's planning for future development

2023



Pedestrian Infrastructure Enhancement Plan

Optimize and upgrade the City's pedestrian infrastructure



Creation of Community Safety Zones

Develop guidelines to create and operate community safety zones

2024



Cycling Network Expansion

Optimize and upgrade the City's cycling infrastructure



Travel Demand Management Plan

Share insights and decisions for the City's travel demand management plan



TRAFFIC DATA MANAGEMENT PROGRAM

Support active and sustainable transportation

2021 / 2022



Traffic Data Needs Assessment

Identify traffic data requirements to support the MoveSmart Strategy



Traffic Data Management System

Procure and implement a traffic data management system

2023



Traffic Data Services

Enhance the City's traffic data collection programs and contracts



COMMUNICATIONS AND PUBLIC AWARENESS INITIATIVE

Ongoing awareness of tangible benefits through communication and education

MOVESMART Mobility Management Strategy

Foundation

Safety

- Road Safety Addressing the needs of all road users, including pedestrians and cyclists

Sustainability

- Facilitating sustainable and active transportation to create Healthier and safer communities

Mobility

- Ensuring appropriate speed for the environment that considers future growth

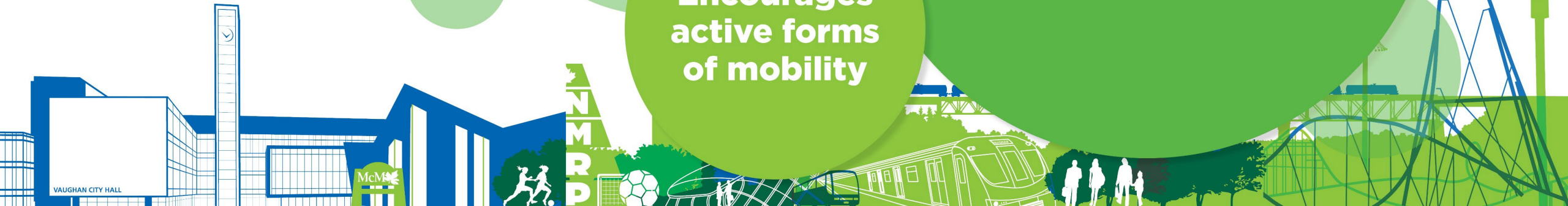
Creating Healthier Communities

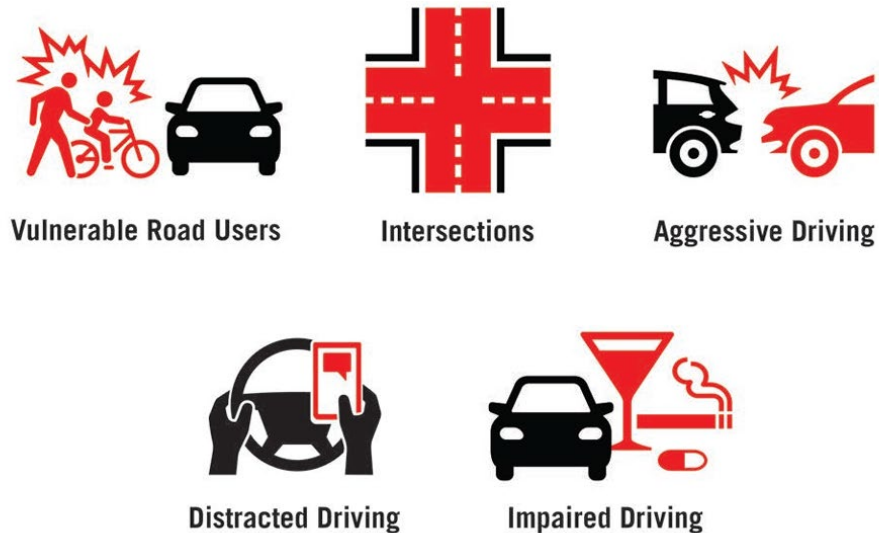
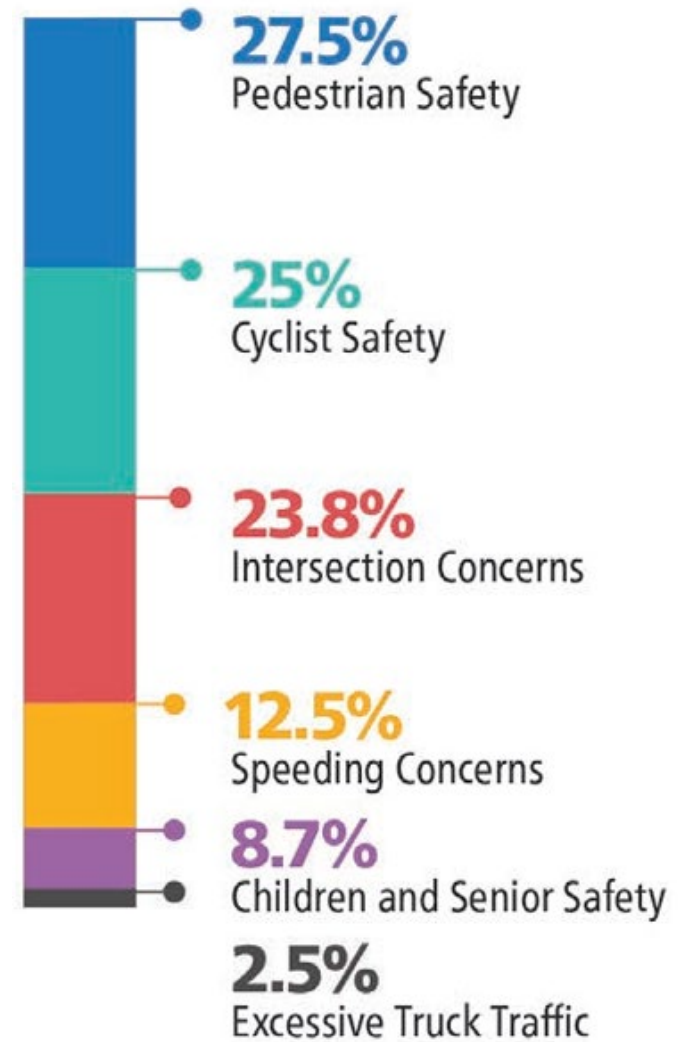
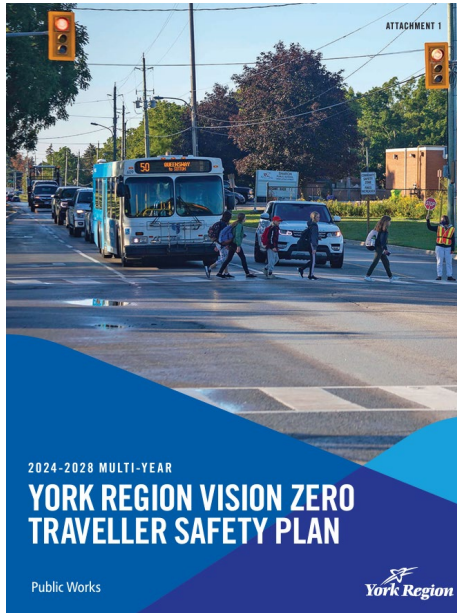
**Improves
air quality**

**Reduces
chronic
disease**

**Increases comfort
and safety for
all users**

**Encourages
active forms
of mobility**





Community and Stakeholder Road Safety Concerns

Policy and Program Objectives



Address the increasing number of resident traffic-related concerns in Vaughan



Update the existing Neighbourhood Traffic Committee Policy and Procedures



Identify traffic calming measures that will help address road safety concerns

Key Focus:

Promote road safety and ensure that streets are welcoming and comfortable for everyone.





What is Traffic Calming?

Traffic calming is the combination of mainly physical measures that reduce the negative effects of motor vehicle use, alter driver behaviour and improve street conditions for all road users:

- reduce vehicular speeds
- reduce the number and severity of collisions
- improve pedestrian and cyclist safety
- improve the quality of the environment
- potentially reduce traffic volumes

Project Phases



Fall 2022 – Winter 2023

**Phase 1: Background
Review and Analysis**



Winter 2023 – Spring 2023

**Phase 2: Draft
Policies, Procedures,
and Toolbox**



Summer 2023 – Fall 2023

**Phase 3: Pilot Tests of
Five Neighbourhoods**



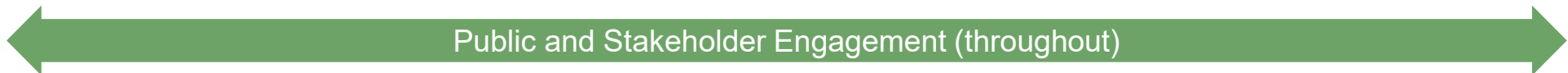
Winter 2024 – Spring 2024

**Phase 4:
Development Review
and Design
Guidelines**



Summer 2024 – Fall 2024

**Phase 5:
Documentation and
Final Deliverables**



Engagement Activities

4 Technical Advisory Committee Meetings

2 Public and Stakeholder Feedback Survey

Public Education Workshops

10 Walking Tours

2000+ Residents Engaged

Stakeholder Meetings, Interviews and Meetings with City departments and external partners

Presentations to Mayors Office, City Manager and Regional & Ward Councillors

Comprehensive Communications Campaign

Site Podium App



Project Overview

New Kleinburg was selected as one of the five pilot neighbourhoods to test out new traffic calming tools and measures. Pilot neighbourhoods were selected through a screening process and data review. In finalizing the five pilot neighbourhoods, several consultations were engaged with City Staff, Councillors and community members.

During the pilot phase, the City will engage with the residents who live in New Kleinburg to identify key areas of concern and develop solutions to address those issues. All community members are welcomed to provide their input through upcoming public consultations.

The goal the pilot test is to identify 'quick-build' traffic calming measures that can be installed within a short amount of time and be evaluated on how the solutions are working.

Traffic calming measures will be temporarily installed in the summer of 2023 and actively monitored until the spring of 2024. The purpose of monitoring the pilot test is to show how traffic calming measures impact driver behavior and traffic patterns.

Potential Examples of 'Quick-Build' Traffic Calming Tools



Planter Boxes



On-road Messaging



Year-Round Flexi Post

Upcoming Community Activities and Events

The City of Vaughan is organizing multiple engaging activities with the residents living in New Kleinburg. You are invited to join these events to learn more about the project and provide additional feedback!

Virtual Open House

Join us for a virtual public information session to understand about the pilot project in your neighbourhood.
Date and Time: TBA

Online Survey & Mapping Tool

Community members are invited to participate in an online survey and mapping tool to identify key areas of concern.
Last day to provide your feedback: TBA

Community Walkabout

Join us for an in-person walking tour and design workshop. We will identify potential ideas and locations in placing the traffic calming measures on the street.
Date and Time: TBA

Stay Involved

We are inviting residents to provide us with ongoing feedback using the SitePodium app. You can receive real-time updates about the project and provide your comments on the traffic calming measures.

Download the Sitepodium app with the QR code and you can place your feedback at the touch of your fingertips!



Scan this code to download the SitePodium App!

NEIGHBOURHOOD TRAFFIC CALMING PLAN

vaughan.ca/NeighbourhoodPlan



Creating safer roads

Traffic calming pilot coming to select neighbourhoods

vaughan.ca/NeighbourhoodPlan



Pilot Project



Existing conditions (i.e., speed, volume, collision)



Different roadway types and geometry



Different types of neighbourhoods



Spread opportunities to other neighbourhoods



Mitigate existing speeding or shortcutting issues



Select equity-deserving neighbourhoods



Areas with range of traffic calming measures



Refine tools to address aging infrastructure



Five Neighbourhoods Pilot Projects

8% - 30% Speed
Reduction

70+ Instalments

1500+ Engaged
Residents

10+ Tours and
Events

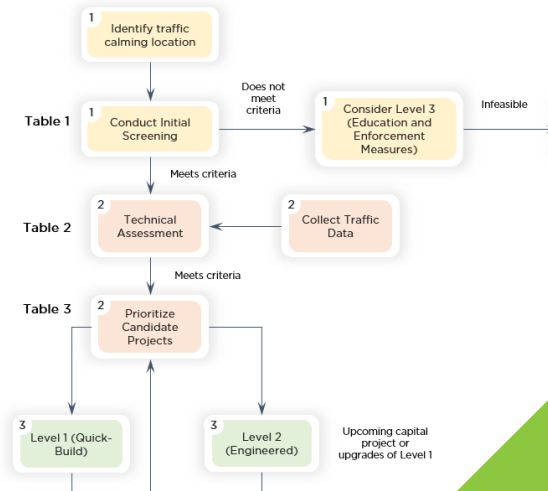


The 2024 Neighbourhood Traffic Calming Policy



Identify and implement traffic calming measures in Vaughan.

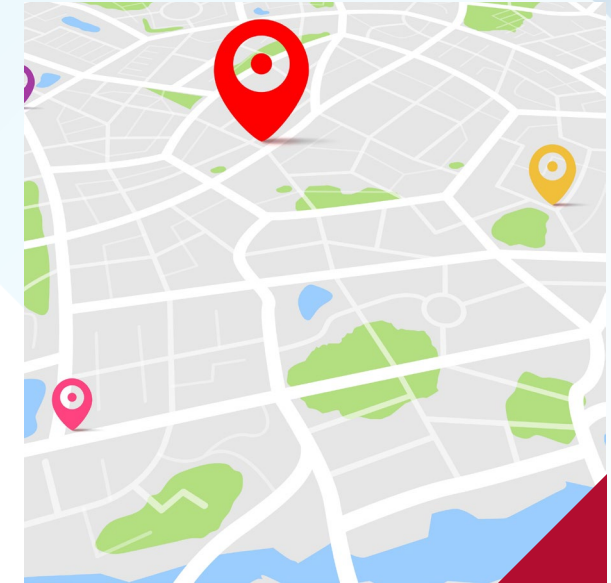
Traffic Calming Process



Streamline screening, prioritization, and implementation; **removal of petitions.**



Prioritize **safety**, improve **livability**, and ensure **consistent and evidence-based** decision-making.



Policy application to **determine and prioritize** projects.

Policy Principles

1. Manage mobility needs and speed reduction.
2. Establish uniform application of Traffic Calming Procedures.
3. Prioritize road segments for traffic calming.
4. Minimize the need for traffic-calming retrofits through road design to enhance safety.
5. Apply a neighbourhood approach to plan and deliver traffic calming, including the potential application of a Corridor Study or Traffic Study.
6. Balance the needs of municipal services delivery.
7. Adhere to Standards and Provincial Acts.
8. Align with the City's road safety and speed management objectives and transportation plans

Expanded Toolbox of Measures

Level 1 Passive Measures



Level 2 Permanent Quick Build



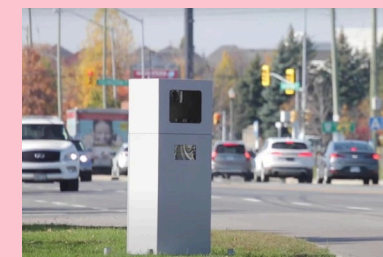
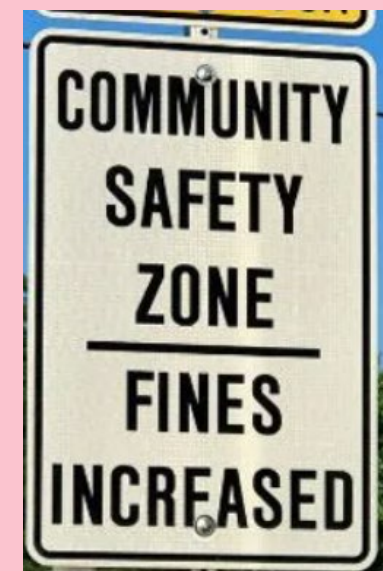
Level 3 Permanent Design-Build



Supplementary



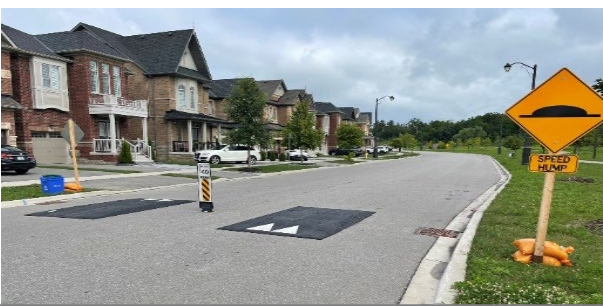
Enforcement



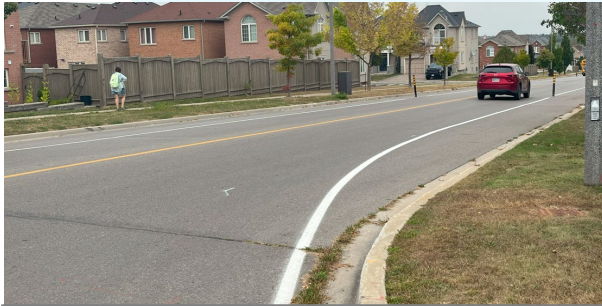
LEVEL 1 PASSIVE MEASURES



Curbside Bollards



TEMPORARY RUBBER SPEED CUSHIONS



EDGE LINES



Temporary Centreline hardening



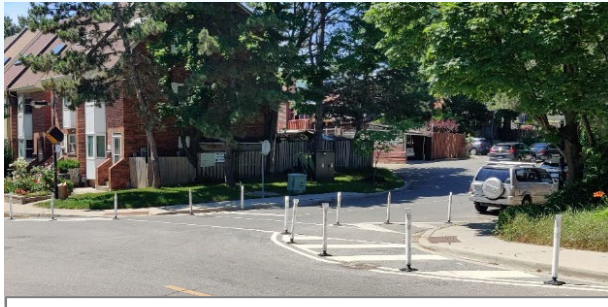
Centreline Flexible Signs



PLANTERS



ON-ROAD MESSAGING



Curb radius reduction



Converging Chevrons



Dragon's Teeth



Full-Lane Transverse Bars



Peripheral Transverse Bars



Custom Crosswalks

LEVEL 2 PERMANENT QUICK BUILD MEASURES



Centreline Hardening



Asphalt Speed Cushions

LEVEL 3 DESIGN-BUILD MEASURES



**Curb Extensions and
Chokers**



Chicanes



Raised Median Islands



Curb Radius Reductions



**Roundabouts/Mini-
Roundabouts/Traffic Circles**



Raised Crosswalks (Mid-block)

SUPPLEMENTARY EDUCATION AND ENFORCEMENT



Radar Message Boards



Boulevard Signs / Silhouettes



Active and Safe Routes to School Program



Community Safety Zones (CSZ)



Education Campaigns



Full Automated Speed Enforcement (ASE)



Traffic Calming Procedures



Stage 1

Initiation and
Issue
Validation



Stage 2

Warrant
Analysis



Stage 3

Plan
Development



Stage 4

Implementation



Stage 5

Monitoring
and
Evaluation

Timelines and Next Steps



May 29

Policy Committee

Policy and Procedures



June to August

Program Development

Implementation Planning



September 11

**Committee of the Whole
Working Session**

Traffic Calming Program
Staff Report

Thank You

More Information:

[Neighbourhood Traffic Calming Plan](#)

[MoveSmart Strategy](#)

[MoveSmart Mobility Management Strategy 2024 Annual Report](#)