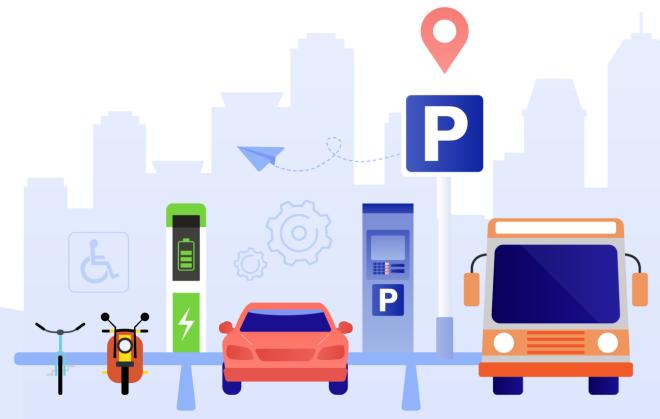


Citywide Parking Strategy Workshop Special DSC Meeting

February 12, 2024 @ 2pm





Introductions



Agenda



- 1. Introduction
- 2. Project Roadmap
- 3. Engagement Update
 - Phase 1
 - Phase 2
- Refine Parking Zone Criteria and Guidelines

- 6. Draft Policies
 - Land Development
 - Curbside Management and On-Street Parking Plan
 - BREAK Parking Paradigm Shift Video
 - Parking Technology Plan
 - Connected and Autonomous Vehicles Parking Plan
 - Electric Vehicle Parking Plan
 - Micromobility Parking Plan
 - Trails and Major Parks Parking Management Plan
 - BREAK
- 7. Final Remarks





Project Roadmap



Project Objectives and Process





Assess **existing conditions** and issues



Develop a Vision, Guiding principles and Policy Framework



Develop City-wide and Area-Specific Parking Approaches for key topic areas that have been endorsed by City Council

We Are Here!

Recommend an **implementation and monitoring** strategy





Prepare a draft and final report for Council endorsement



Engagement Update



Engagement Update



03

Stakeholder and Focus
Group Meetings &
Interviews

Community Pop-Ups

Project Webpage



2

Stakeholder Interviews

2

Focus Group Meetings

61 Invitees **20**Focus Group Participants



4

02

Community Pop-Ups Hosted

177

Community Members Engaged



1,400

Visitors to Your Voice Markham

18

Ideas Shared

12 Inline Sur

Online Survey Participants

7 o Pins Ad

Map Pins Added



What We Heard



The following is a summary of feedback received on what the City should be considering in their Parking Strategy. This is a summary of feedback from businesses, community members, and staff across all consultation methods.



The Strategy should reflect existing parking conditions and accommodate changes in transportation trends.



More connectivity between parking lots, local destinations and public transportation.



More public parking in growing residential neighbourhoods to facilitate safe and easy access to housing and local institutions.



Active transportation infrastructure is required to safely access and use bicycles, scooters etc.



Council Resolution:

- Refine Parking Zone Criteria and Guidelines



Revised Draft Parking Vision



Markham's vision for parking is to create adaptive area-specific policies, standards and programs that align with the City's commitment to providing residents, visitors, and businesses with an efficient, safe, equitable, reliable, and convenient transportation system and support the City's transformation into a more sustainable, multimodal and livable city.



Draft Parking Principles



Adapt to Local Mobility Contexts









Integrate Development and City Building Objectives







Improve Efficiency of Parking Infrastructure and Operations

Parking Zone Criteria and Guidelines



		Zone 1	Zone 2	Zone 3	Zone 4
Transit ¹	15 minutes access to two Regional ³ Transit Services	✓			
¹ operational, in delivery, development, or planned	Frequent ² Rapid Transit or Frequent Bus Service	✓	✓	✓	
Urban Structure	Major Transit Station Area (MTSA)	✓	✓		
	Secondary Plan Area containing an Intensification Area or Key Development Area (KDA)	✓	✓		
Land Use & Density	Mixed Uses to support live, work, play	✓	✓	✓	
	Medium to High Density, e.g. Multi-unit Residential, Multi-storey Office	✓	✓	✓	

² Frequent- 10-15 minutes service ³Regional-service across more than one municipality



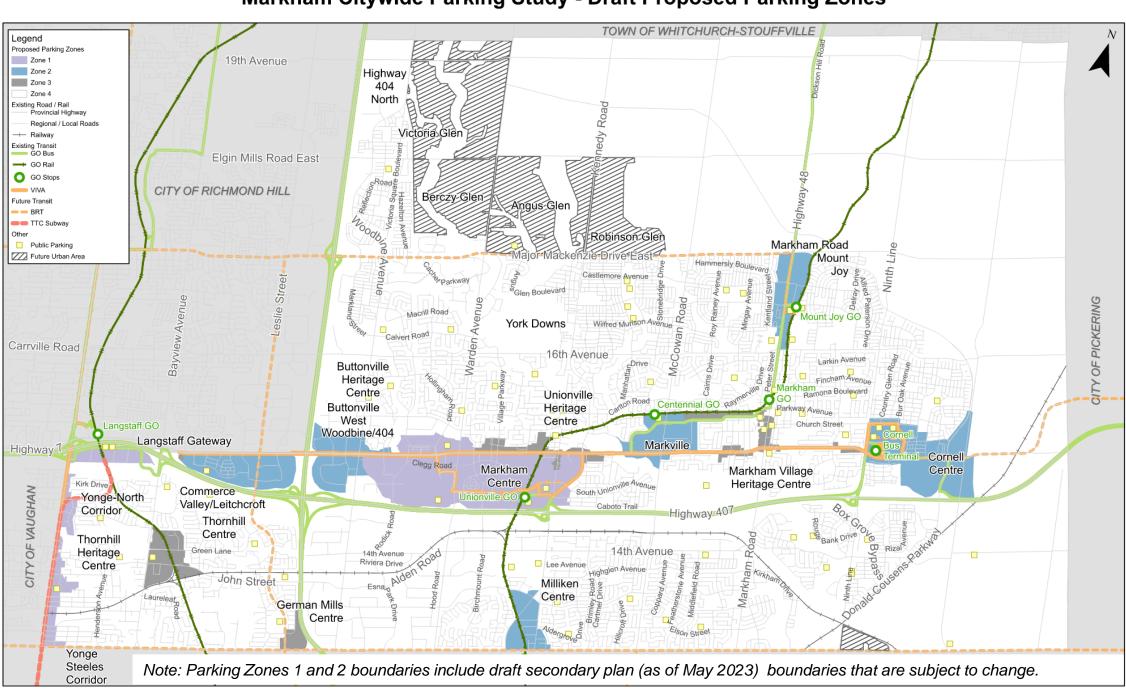
Parking Zone Criteria and Guidelines



		Zone 1	Zone 2	Zone 3	Zone 4
Public Parking P	Availability of Public Parking, Shared Parking , On-street Parking	High –			Low
Active Transportation Infrastructure	Walkability				Low
T Å	Bicycle Parking and Cycling Facilities				Low
	Shared Mobility Services	✓	✓	✓	
Parking Management Measures	Require Unbundled Parking	✓	✓	✓	
P	Require Pick-up and Drop-off Zones		✓	✓	
	Encourage Paid Parking	✓	✓		



Markham Citywide Parking Study - Draft Proposed Parking Zones



Discussion Activity - Parking Zones and Criteria



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

INSTRUCTIONS:

- You will have a few minutes to reflect on the materials and questions presented.
- 2. Please respond to **each question** using the Post-it notes provided. Please use the associated post-it note colour.
- 3. Please ensure one idea per post-it.
- Select top ideas to share out loud in the session.
- We will collect all ideas for review during the break.
- 6. We will group each note by theme on the boards provided to summarize all feedback.





Draft Policies



Draft Policy Areas

Land Development (Policy Area 1, 2, 3):

- Develop Parking Standards to complement the City's Parking Zones
- Develop a citywide Transportation Demand Management Program
- Transition from unpaid to paid public parking in Zones 1 and 2

Curbside Management (Policy Area 4) and On-street Parking Plan (Policy Area 5):

- Develop a citywide Curbside Management guidelines
- Expand the citywide on-street parking system



Parking Technology (Policy Area 6), CAV (Policy Area 7) and EV Parking Plan (8):

- 6 Leverage technology to support various curbside, parking and delivery functions
- 7 Develop parking considerations for connected and automated vehicles (CAV) for street parking and off-street parking
- Develop a dedicated City-wide Electric Vehicle (EV) Strategy and align an EV Parking Plan to support the shift to zero-emissions vehicles.

Micromobility (Policy Area 9) and Trails and Major Parks Parking Management Plan (Policy Area 10):

- 9 Develop citywide micromobility parking plan
- Develop appropriate parking supply and improve multimodal access at high-priority trailheads and major parks.









Policy Area		Policy				
1	Develop Parking Standards to complement the City's Parking Zones	 Right-size parking by varying parking standards by Parking Zone and update regularly as Markham transitions over time 				
		Encourage shared parking for the efficient use of land and infrastructure				
		Support affordable housing through reduced parking requirements				
2	Develop a citywide Transportation Demand Management Program	Enhance citywide TDM Guidelines and Measures				
		 Introduce earned parking reductions through enhanced TDM provision 				
3	Transition from unpaid to paid public parking in Zones 1 and 2	Consider public parking supply opportunities, including partnership				
	parking in 2011c3 1 and 2	Consider municipal on-street and off-street parking facilities				





Policy		Detail			
Develop Parking Standards to complement the City's Parking Zones		 Right-size parking by varying parking standards by Parking Zone and update regularly as Markham transitions over time 			
		Encourage shared parking for the efficient use of land and infrastructure			
		Support affordable housing through reduced parking requirements			

Zoning By-law parking requirements	Transportation Demand Management (TDM) measures	Site-specific solutions	Target outcomes
Less parking in Zone 1,	Promote transit, active	Consider shared off-site	✓ Sustainable development
more parking in Zone 4	transportation, shared mobility and support trip	parking and other	✓ Liveable communities
Support shared parking for mixed-use sites	planning	innovative solutions through development review.	✓ Multimodal travel





Policy Detail



Develop a citywide Transportation Demand Management Program

- Enhance citywide TDM Guidelines and Measures
- Introduce earned parking reductions through enhanced TDM provisions

Sample TDM Guideline		Applicable Land Use					Applicable Parking Zone			
	Primary Intent	Transit Oriented/ Mixed Use	Commercial/ Employment	Industrial	Urban Residential	Suburban Residential	1	2	3	4
Shared Mobility: Bike & Car Share	Increase the modal options for the community	✓	√		√		✓	✓	✓	

- Evaluate TDM effectiveness through post-occupancy travel surveys
- Review and update TDM guidelines regularly
- Streamline development approvals: Zoning By-law to permit parking reductions through providing enhanced TDM measures





Policy Detail

- 3
- Transition from unpaid to paid public parking in Zones 1 and 2

- Consider public parking supply opportunities, including partnerships
- Consider municipal on-street and off-street parking facilities



Credit: PreciseParklink



Discussion – Land Development



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

Key Considerations

Encourage and support non-auto travel and reduce traffic congestion

Lower on-site parking supply and increase the opportunity for paid public parking and shared on and off-site parking are intended to minimize the oversupply of parking spaces and make more efficient use of land.

Support local business and employment zones by increasing the opportunities for off-site parking (and on-street permits) and supporting and encouraging multimodal facilities and infrastructure to reduce parking demand





Curbside Management and On-street Parking Plan



Curbside Management





Credit: WSP-Future Ready Curbside



Curbside Management - Functions



Movement

- Transit lanes
- Travel lanes
- Bike lanes
- Pedestrian walkways

Access for People

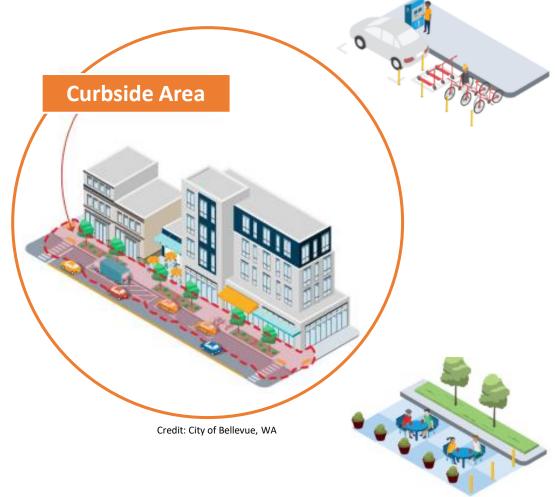
- Passenger pickup and drop-off
- Transit stops



Access for Goods

Short term delivery





Parking

- Vehicle
- Bike & Micromobility
- Micromobility hub

Greening/Activation

- Recreational and relaxation space
- Green areas
- Programmable space
- Retail space
- Sidewalk cafes





Curbside Management- Policy

Policy Detail



Develop citywide Curbside Management guidelines

Prioritize the use of curbside based on roadway functions















Curbside Management & On-street Parking Plan



Policy		Detail				
4	Develop citywide Curbside Management guidelines	Prioritize the use of curbside based on roadway functions				
5	Expand the citywide on-street parking system	Update the residential overnight parking permit program				
		Consider on-street delivery zones or permit program				
		 Consider supplemental on-street parking in employment areas where appropriate 				
		 Prioritize short-term on-street parking (over daily parking) in Zones 1 and 2 				
		Establish paid on-street parking				





On-street Parking Plan

Policy Expand the citywide on-street parking system • Update the residential overnight parking permit program • Consider on-street delivery zones or permit program • Consider supplemental on-street parking in employment areas where appropriate • Prioritize short-term on-street parking (over daily parking) in Zones 1 and 2 • Establish paid on-street parking



Residential parking permit

- Eligibility criteria to prioritize a household's first vehicle (secondary units)
- Price higher than a transit pass
- Impacts to operations and enforcement



Paid on-street parking

- Strategic parking pricing
- Public education campaign to introduce paid parking

Discussion - Curbside Management & On-street Parking Plan



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

Key Considerations

Expand on-street parking system to include residential permits (increasing supply in areas where on-site supply is not possible)

Support local business with short-term, delivery zone, and supplemental parking in employment areas

Establish an objective for paid parking: should pricing be set as a deterrent, or should it be considered as a revenue generator?

Impact of on-street parking on operations and emergency response



BREAK - 15 minutes



Markham Citywide Parking Strategy



Parking Technology Plan





Parking Technology Plan

Policy Detail



Leverage an integrated technology platform to support various curbside, parking and delivery functions while minimizing deployed infrastructure

- Define Smart Parking that is flexible and future proofed to:
 - Enable demand based pricing and incentives
 - Support flexible curbside use
 - Provide enforcement including integration with existing Violation ticketing system
 - Encourage Smart Loading solutions
 - Support dynamic pickup/drop off assignment/reservation
 - Explore shared public/private parking
 - Explore pilot opportunities through the Ontario Vehicle Innovation
 Network (OVIN) Demonstration Zone









CAV Parking Plan





CAV Parking Plan

Policy

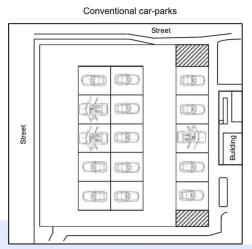


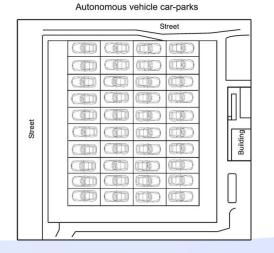


Develop parking considerations for connected and automated vehicles (CAV) for street parking and off-street parking

- Using current best practices (US MUTCD Dec 2023, GTHA CAV Readiness Plan 2020), identify levels of preparedness
 - L1 AV only zone (automated parking systems, reduced space)
 - L2 CAV Infrastructure preparedness (Roadside Units (RSU), painting, signing etc)
 - L3 Do Nothing
- Consider parking technologies that can work with automated vehicles (ie License Plate Recognition)
- Consider EV charging needs as automated vehicles will likely be electric
- Identify considerations for follow-up study through TMP







In-Vehicle Traveller Information (ITI)

 Description: Provides motorists with relevant travel information, such as weather alerts, speed restrictions, road conditions, vehicle restrictions, incidents or road closures.



Relevant Technologies: V2I and V2X communications, RSUs and OBUs
Category: Safety, Efficiency, and Informational
Deployment Readiness: Available and Ready





EV Parking Plan





EV Parking Considerations

Policy Detail

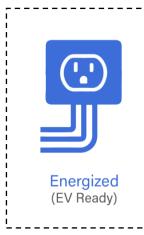


Develop a dedicated City-wide EV charging strategy and align parking requirements to support the transition toward zero-emissions mobility

- Identify priority areas for public charging infrastructure
- Consider setting EV-ready parking requirements for new developments
 - Proportions of EV-ready parking designs in new buildings aligning with federally mandated ZEV Sales Targets (100% by 2035)

EV Ready: The parking space must have a termination point in an electrical wiring installation to power a level 2 charger









EV Parking Considerations



Policy



Develop a short-term EV parking strategy to support the shift to zero-emissions vehicles

Detail

- Encourage developers to include "EV-ready" parking stalls in new buildings based through reduced parking minimums, other incentives or policy levers
- Develop an on-street electric vehicle (EV) parking policy
 - Set consistent charging rates across City to ensure vehicle turnover
 - · Reduce payment confusion
 - Develop signage for EV parking areas
 - Consider accessible EV parking design
- Pursue incentives, payment and revenue generation to cover the costs of infrastructure
- · Consider equity when expanding public chargers within City-owned parking areas
- Develop programs for developers and landowners to educate them about the benefits of providing EV-ready parking





Discussion – EV Parking Plan



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

Key Considerations

Develop a community EV charging strategy for the City

Implement an on-street EV parking policy

Explore payment at EV charging stations and other revenue generation opportunities to fund public charging infrastructure

Consider setting EV-ready parking requirements for new developments and non-residential land-uses

Parking Technology and CAV



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

Key Considerations

Parking Technology CAV Parking Plan Leverage technology to Identify levels of support various curbside, preparedness parking and delivery functions. Pursue grants, funding, and partnerships with Consider parking stakeholders through pilot technologies that can work programs and other with automated vehicles opportunities to achieve the City's parking strategy. Identify considerations for follow-up studies







Policy Detail



Develop a citywide parking policy for micromobility uses

- Should the City adopt electric travel devices as transportation options, the following measures should be considered:
 - E-scooter and e-bike policy including parking policies, with priority in Zones 1 and 2







Policy Detail



Develop a citywide parking policy for micromobility uses

- Should the City adopt electric travel devices as transportation options, the following measures should be considered:
 - E-scooter and e-bike policy including parking policies, with priority in Zones 1 and 2
 - Develop bike and micromobility parking program including consideration for Micromobility Hubs, with priority in Zones 1 and 2









Policy Detail



Develop a citywide parking policy for micromobility uses

- Incorporate bicycle and micromobility parking in developments
 - Set minimum bicycle and micromobility parking requirements in the Zoning by-law, with higher requirements in Zones 1 and 2
 - Require electric bike and micromobility charging infrastructure
 - Conduct a public education campaign to promote the provision and use of bicycle and micromobility parking in existing developments









Trails and Major Parks Parking Management Plan





Trails and Major Parks Parking Management Plan

Policy Detail



Develop appropriate parking supply and improve multimodal access at high-priority trailheads and major parks.

- Determine high-priority trails
- Introduce travel planning and parking management measures
- Enhance on-street parking signage and enforcement in high-priority areas

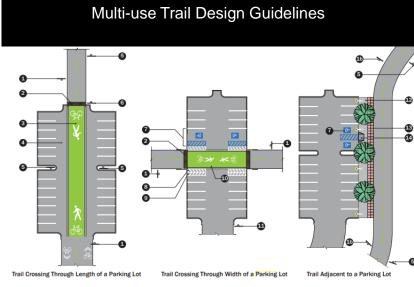
Free Gatineau Park Shuttle on summer weekends



Credit: National Capital Commission (NCC)

Pilot trail parking travel planning and management measures

- Parking availability information and reservation
- Coordination with YRT to improve access to trails
- o Passenger pick-up and drop-off
- Shared parking with civic uses
- Centralized parking hubs
- Carpooling
- Wayfinding and trip planning tools to expand first and last kilometre choices



Credit: City of Toronto

Discussion - Micromobility and Trails and Major Parks Parking Plan



Do these policies and measures reflect the Vision for Markham?

Is there anything else related to this topic that you would like to discuss/change?

Key Considerations

Micromobility Parking Plan	Trails and Major Parks Parking Management Plan
Incorporate bicycle and micromobility parking in developments	Determine high-priority trail and recreational facilities
Require electric bike and micromobility charging infrastructure	Introduce travel planning and parking management measures
Conduct public education campaign to promote the provision and use of bicycle and micromobility parking in existing developments	Enhance on-street parking signage and enforcement in high-priority areas



BREAK-15minutes





Final Remarks



NEXT STEPS



Phase 3:

- Parking Strategies
- Governance and Finance
- Report to Council Q2 2024
- Public Engagement Public Open House, Website Communications, External Focus Groups

Phase 4:

- Draft Final report and implementation plan
- Final report to Council Q3 2024



Thank you

