ByWard Market – Sandy Hill Neighbourhood Bikeway

Public Engagement - April 2022



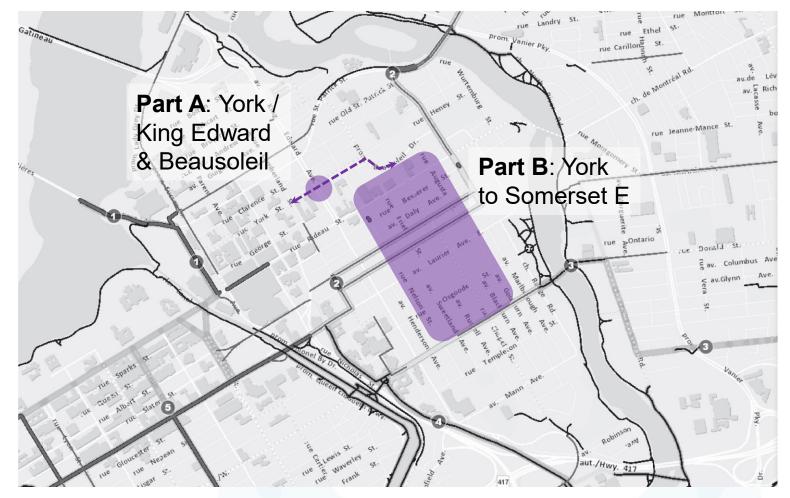
Introduction

Note: This project is funded through special "Section 37" funds related to the 151 and 153 Chapel Street development project



Project Study Area

- Study consists of two segments
 - York St and Beausoleil Dr.
 including the King Edward
 Avenue intersection
 - York St. to Somerset St. E
- Over 1.5 km Neighbourhood Bikeway connection



(Source: GeoOttawa)



Why Here?

- Neighborhood Bikeway connection in an area with high cycling rates, but poor connectivity
- Improve connectivity between:
 - ByWard Market / Lowertown and Sandy Hill
 - Cross-town Bikeways 2 (Cobourg/ Wilbrod / Stewart) and 3 (Somerset E)
- High cycling use on east-west corridors (based on Strava data)
- Expected untapped demand north-south through study area
 - Few alternate routes



⁽Source: Strava Global Heatmap)



What is a Neighbourhood Bikeway?

Safe but shared on-road facility



Neighbourhood Bikeways...

- Are low-volume, low-speed streets
- Prioritize bicycle travel using
 - Traffic calming
 - Traffic reduction
 - Signage & pavement markings
 - Intersection crossing treatments
- Encourage through movements for people on bikes while discouraging/ eliminating through trips by motorized traffic



Portland, OR (source: Alta Planning + Design)



Design Treatment Toolbox

- Design treatments come from the City's *Traffic Calming Design Guidelines* and the *Local Residential Streets 30 km/h Design Toolbox* and examples from North America and Europe
- A few key treatments are highlighted on the following slides



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TRAFFIC CALMING DESIGN GUIDELINES



City of Ottawa Transportation Services Department Area Traffic Management Branch April 2019

ottawa.ca 2000 3-1-1 TTY/ATS 613-580-2401



Speed Reduction Bulb-outs / Curb Extensions

- Narrows crossing distance for pedestrians at crossings
- Prevents parking close to intersections
- Reduces vehicle speeds
- Some already exist along corridor



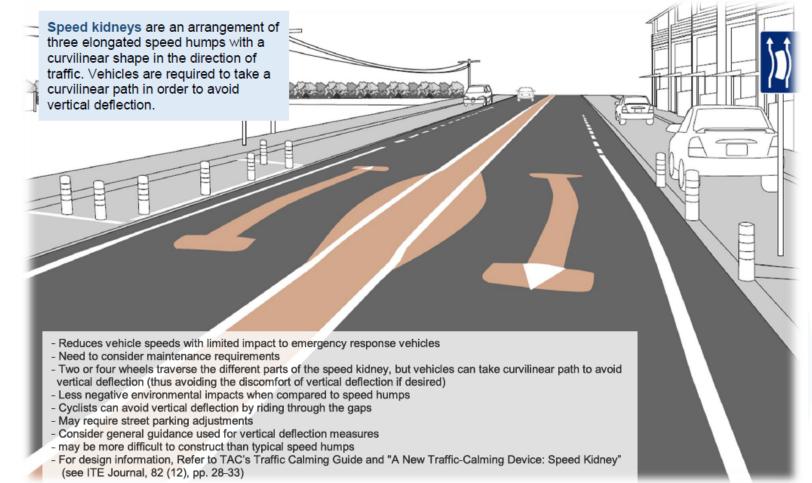
Spencer Ave. and Huron Ave., Ottawa (source: Alta Planning + Design)



Speed Reduction Speed Kidneys

- Forces motor vehicles to slow down to navigate raised features
- Manages vehicle speed
- Permits people cycling to avoid raised features
- Limited impact to emergency response vehicles

Speed Kidneys



City of Ottawa Traffic Calming Design Guidelines



Speed Reduction Chicanes

- Forces motor vehicles to maneuver slowly
- Manages vehicle speeds
- Potential for additional vegetation along roadway
- May reduce on-street parking



Cambridge St., Ottawa, ON (Source: City of Ottawa)



Example Features



Shaw Street, Toronto, ON (source: Alta Planning + Design)

Portland, OR (source: Alta Planning + Design)



Volume Reduction Measures

Vehicular Directional Closures

- Prevents vehicles from entering a road in one direction
- Manages vehicle volumes
- Permits people cycling to continue through



Cumberland St. and St. Andrew St., Ottawa (source: Alta Planning + Design)



Example Features



Vancouver, BC (source: Alta Planning + Design)



Shaw Street, Toronto, ON (source: Alta Planning + Design)



Example Features

Through movement restriction for motor vehicles to reduce traffic volume Pavement markings and signal phasing supports crossing major roadways

Fort Collins, CO (source: Alta Planning + Design)

Halifax, NS (source: Alta Planning + Design)



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Bringing It All Together

 Several different measures will be brought together to create a continuous corridor that has low traffic volumes and speeds, and prioritizes people cycling

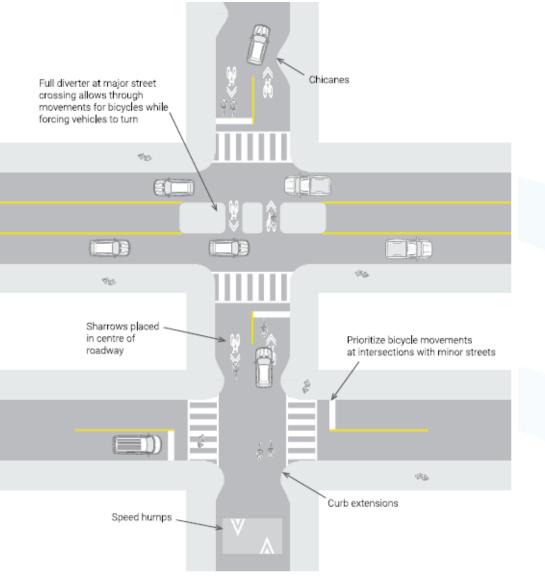
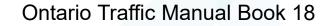


Figure 4.60 - Sample Design Elements on a Neighbourhood Bikeway

(Signs omitted for clarity)





Part A: York St. & Beausoleil Dr.

Including a new safe crossing of King Edward Avenue for cyclists



King Edward / York Intersection Design

 Question2,C,254

 Response2,C,254

 Comment,C,254
 Crossing King Edward at York either direction is not convenient, safe or legal by bicycle without dismounting. The breaks up a neighbourhood.

 commentID,N,10,0
 93829

 45.43059, -75.68731

 Ctawae BackpackersInn

 Ottawae BackpackersInn

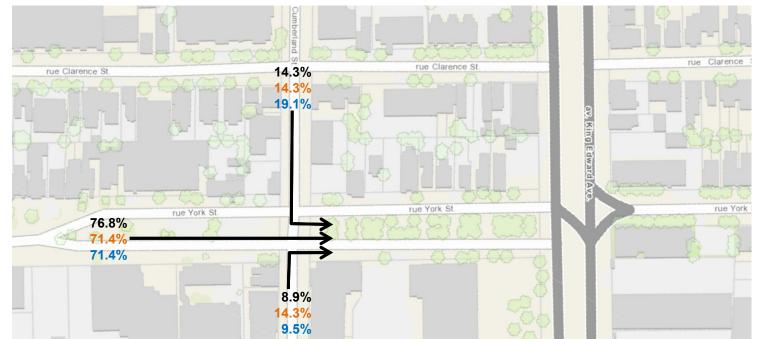
 Ottawae

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"Crossing King Edward at York either direction is not convenient, safe or legal by bicycle without dismounting. This breaks up a neighbourhood."

Origins of People Cycling Travelling Eastbound on York St.

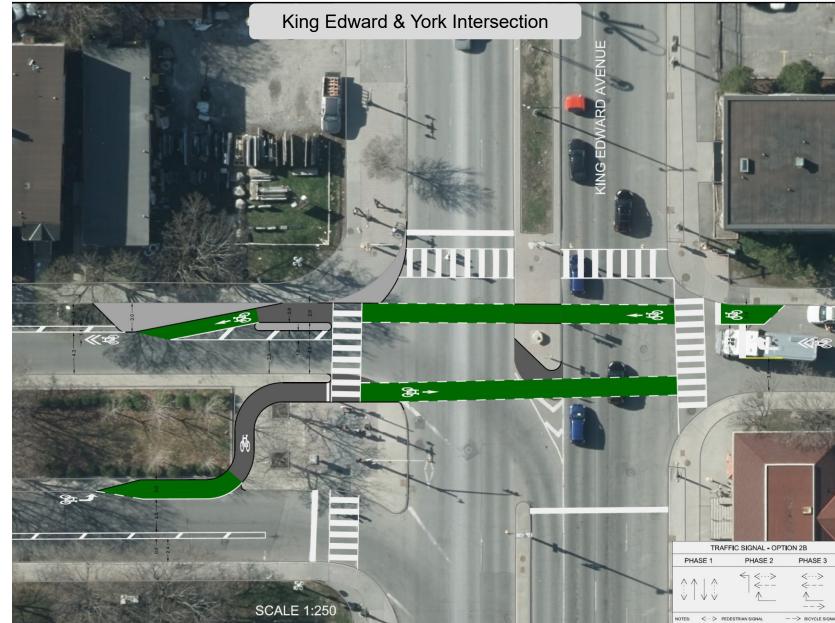
All day AM PM





King Edward / York Intersection Design

- Allows east-west crossings for people on bikes
- Continuous cycling connection
 between ByWard Market area and
 Lowertown
- Minor changes to existing signal phasing
- Aligns with recent ByWard Market Public Realm Plan



York St. and Beausoleil Dr.

- Potential neighbourhood bikeway measures
 in this comment includes
 - in this segment include:
 - Bulb-outs
 - Speed humps
 - Raised intersection
 - Cycling route wayfinding
 - Buffer strip from on-street parking
 - Parking spaces may be affected on Beausoleil Dr. (~18 south, ~16 north)



Spencer St. and Huron Ave., Ottawa (Source: Alta Planning + Design)



Part B: York St. to Somerset St. E

Improved north-south route



Corridors Evaluated

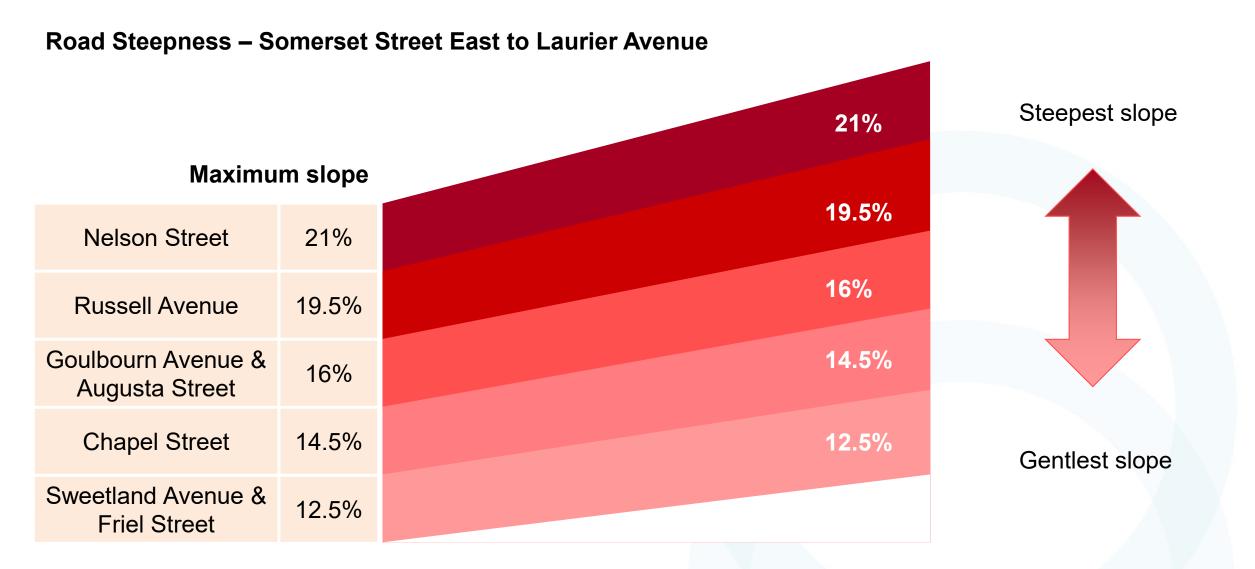
- Nelson St.
- Friel St. and Sweetland Ave. or Russell Ave.
- Chapel St.
- Augusta St. and Goulburn Ave.





Evaluation Criteria			= Best	🔵 = Worst	
Criteria	Nelson	Friel and Sweetland	Friel and Russell	Chapel	Augusta and Goulbourn
Continuity of Route (Single, straight road)		\bigcirc	\bigcirc		\bigcirc
Traffic Volume on Busiest Segment		\bigcirc	\bigcirc		\bigcirc
Vehicular Turning Conflicts	\bigcirc				
Access to Higher Densities & Destinations					
Direct Connections to Other Cycling Facilities					
Opportunity to Divert Traffic at Busiest Parts	\bigcirc				
Steepness of Route	\bigcirc				
Overall Score					





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Recommendation

Chapel is the highest scoring north-south corridor based on the evaluated criteria:

- More direct, continuous route between cross-town bikeways
- Existing traffic volumes are within recommended limits (less than 1,500 vehicles per day)
- Fewer points of potential conflict than other corridors
- Higher population density along corridor
- More direct access to community destinations (schools, daycares, parks)
- Less steep than some corridors



Chapel Street, Ottawa, ON (source: Alta Planning + Design)



Next Steps



Next steps

Staff will review all of the feedback received through this public consultation. Following that;

- The crossing of King Edward Avenue and York Street will move forward into the next phase of design. Additional information and timelines will be posted on the City's website.
- Planning staff will develop the design for the full length of the neighbourhood bikeway route. The design will be presented to the public at a later date for further review.
- If you have any questions, please contact the project manager Sam Roberts <u>Samuel.Roberts@ottawa.ca</u> / 613-580-2424 x27910

