

Scona Road/99 Street/Saskatchewan Drive Intersection Improvements

Open House

Tonight's purpose

- Inform about the implemented traffic safety measures and proposed intersection redesign
- Answer questions about the project and process
- Gather feedback about the traffic safety measures and intersection improvements

Project Information

- Scona Road / 99 Street is a major route into and out of downtown
- Speed limit along entire corridor is 50 km/h





Scona Road Traffic Safety Initiatives

Scona Road/99 Street/Saskatchewan Drive

Intersection Improvements

Timeline

2011-2012

Reconstruction and Rehabilitation along Scona Road and 99 Street

2013-2014

Review of speed limit and pedestrian accommodations

2014-2015

City initiated two independent traffic safety assessments at the intersection



Initial required countermeasures were implemented

Initial meetings with community regarding safety measures

2015-2016

Concept plans for intersection redesign

2016

Presentation to community - **WE ARE HERE**

2016-2017

Additional intersection improvements to be implemented (*timeline is dependent on the countermeasures selected*)



Scona Road Traffic Safety Initiatives

Scona Road/99 Street/Saskatchewan Drive
Intersection Improvements

Safety Assessments

- Two independent safety assessments were conducted
 - University of Alberta – *conventional approach*
 - University of British Columbia – *new approach*

Objectives

- Determine whether the speed limit should remain at 50 km/h
- Apply an evidence based approach to understand the safety issues
- Identify possible traffic safety measures to mitigate these issues

University of Alberta

- Applied conventional traffic safety assessment methodology
- Analysis was conducted using data before and after reconstruction
- Scope: Scona Road, 99 Street and Saskatchewan Drive **corridors**
- Data investigated: traffic volume, speed and collisions

University of British Columbia

- Applied state-of-the-art video based technology
- Analysis conducted at one intersection
- Scope: Scona Road, 99 Street and Saskatchewan Drive **intersection**
- Data investigated: traffic conflicts (i.e., near misses) which provide actual insight into user behavior

Scona Road Traffic Safety Initiatives

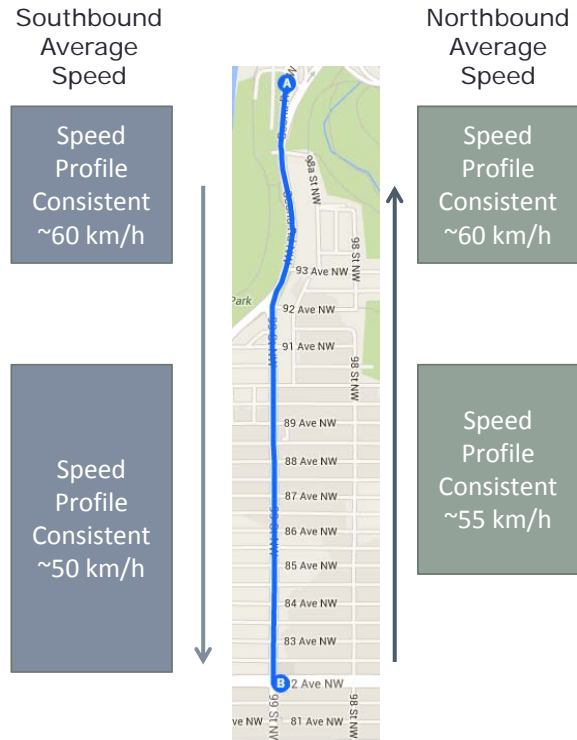
Scona Road/99 Street/Saskatchewan Drive

Intersection Improvements

Results

University of Alberta Study

- Drivers were traveling at least 10 km/h over the speed limit along Scona Road
- Drivers were traveling at higher speeds as they approach Scona Road
- Low collision frequencies meant the data was insufficient to provide an overview of collision patterns and trends



University of British Columbia Study

- The video-based tool identified several conflict scenarios

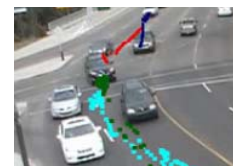
Vehicles
& Pedestrians/Cyclists



Vehicles
(Rear-end)



Vehicles
(Lane-change)





Scona Road Traffic Safety Initiatives

Scona Road/99 Street/Saskatchewan Drive
Intersection Improvements

Countermeasures

- Both studies recommended maintaining the speed limit at 50 km/h
- Other countermeasures are identified in the tables below

Safety Issue	Measure	Timeline
Speeding	Driver feedback Signs	Installed
Signal visibility	Additional signal head	Installed
	Retro-reflective tape*	2016-2017
Improper lane change	Bus stop relocation	Moved
	Overhead lane use sign	Fall 2016
Pedestrian (ped) crossing (91 Ave and 99 St)	Pedestrian signal	Fall 2016

* Pending the results of a pilot project

For Pedestrian/Cyclist accommodations at the Scona Road,
99 Street and Saskatchewan Drive intersection

there are two options

Measure	Timeline
<u>Option A:</u> Install a pedestrian flasher & link it to the existing rectangular rapid flashing beacon	Fall 2016
<u>Option B:</u> Redesign the right turn in the north-west corner of the intersection	2016-2017

*Have Your Say: which option do you prefer?
Let us know on our Comment Form!*



OPTION A

Pedestrian Flasher Installation

Scona Road Traffic Safety Initiatives

Scona Road/99 Street/Saskatchewan Drive



Have Your Say: which option do you prefer, A or B?

Let us know on the Comment Form!

1

North of the intersection

Driver
Feedback Signs



Overhead Lane
Use Sign



Pedestrian
Flasher



Mitigate: speeding

improper lane change

ped crossing

2

At the intersection

Retroreflective Tape &
Additional Signal Head



Rectangular Rapid
Flashing Beacon (existing)



Mitigate: signal visibility

ped crossing

3

South of the intersection

Driver
Feedback Signs



Bus Stop
Relocation



Pedestrian
Signal



Mitigate: speeding

improper lane change

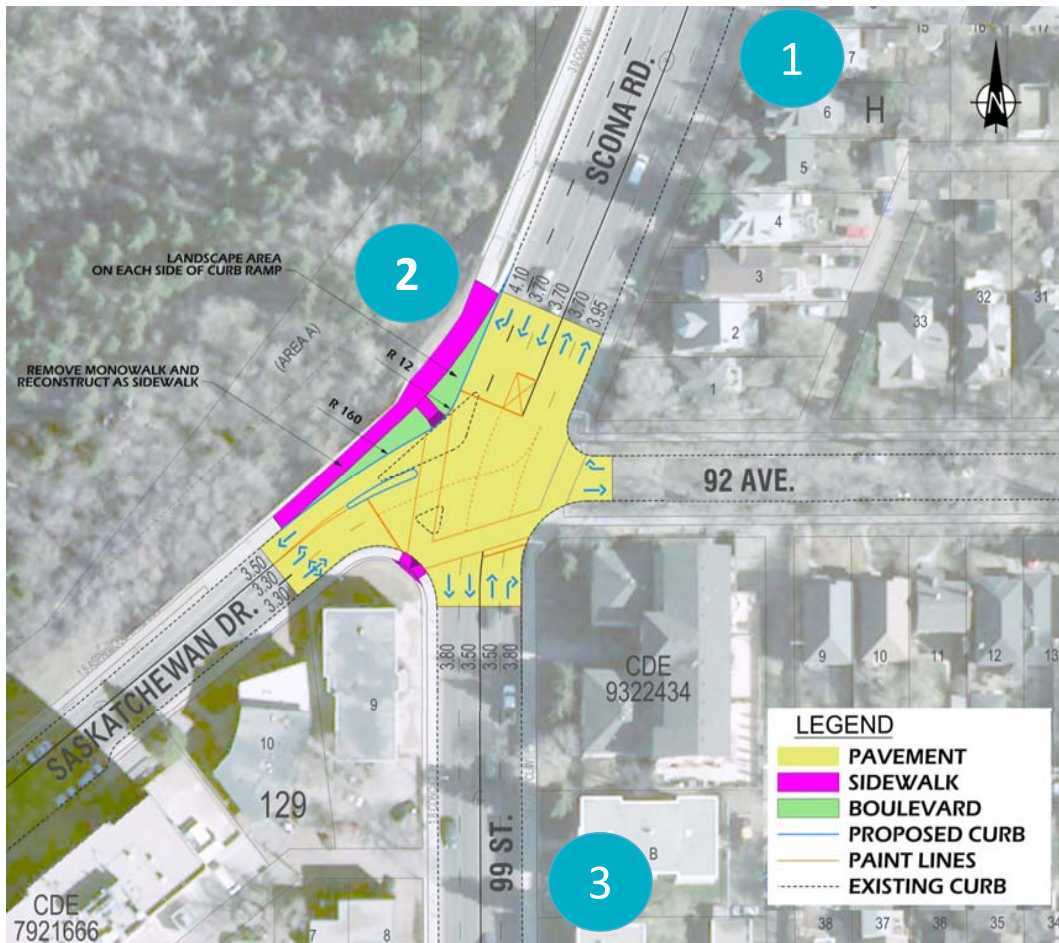
ped crossing

OPTION B

Right Turn Redesign

Scona Road Traffic Safety Initiatives

Scona Road/99 Street/Saskatchewan Drive



Have Your Say: which option do you prefer, A or B?
Let us know on the Comment Form!

1

North of the intersection

Driver
Feedback Signs



Mitigate: speeding

Overhead Lane
Use Sign



improper lane change

2

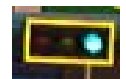
At the intersection

Right Turn
Redesign



Mitigate: ped crossing

Retroreflective Tape &
Additional Signal Head



signal visibility

3

South of the intersection

Driver
Feedback Signs



Mitigate: speeding

Bus Stop
Relocation



improper lane change

Pedestrian
Signal

91 Ave & 99 St



ped crossing