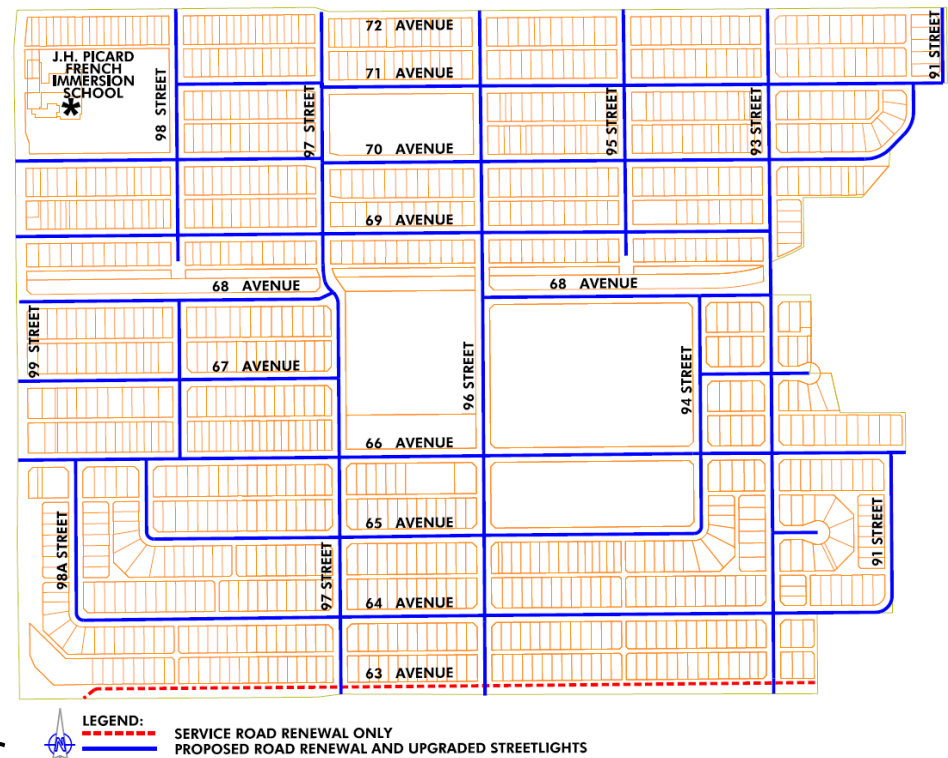


# HAZELDEAN NEIGHBOURHOOD RENEWAL PROGRAM

## Condition & Reconstruction Scope:

- Age: +50 years (1958-70)
- Pavement: poor condition
- Concrete: poor condition
- Surface works: \$28 million (conceptual)
- Includes replacement of pavement, sidewalk, curb and gutter, street lighting
- Does NOT include alleys or arterial roadways



# Design Considerations

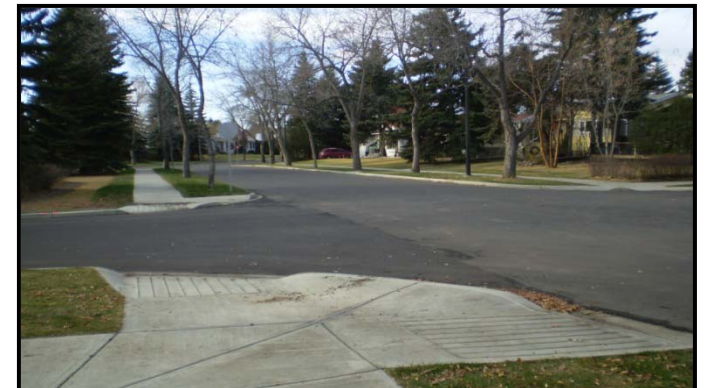
## Active Modes

- Addressing accessibility issues by providing new sidewalk/trail connections



## Intersections

- Adding curb ramps, improving curb radius, and improving the overall operation



# Design Considerations

## Road Width

- Where possible, roads are sized to current standards  
Collector = 11.5 m  
Local = 9.0 m



## Curb Type

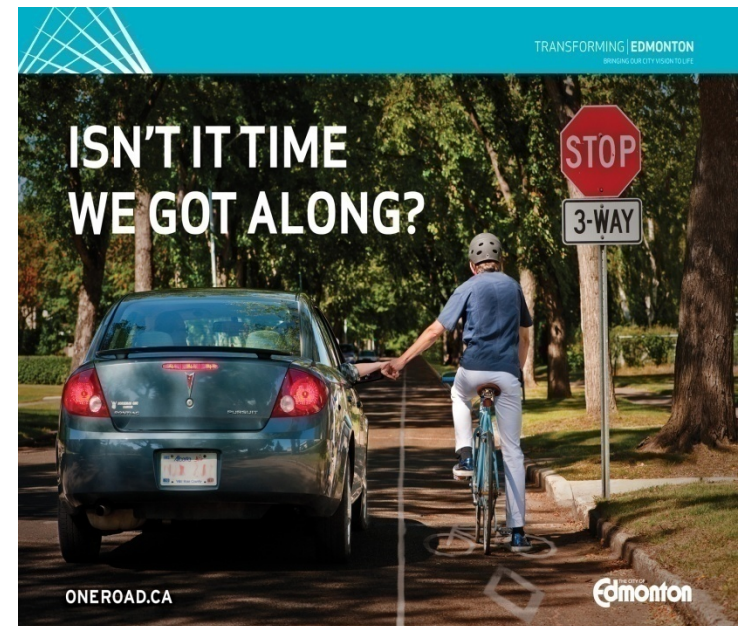
- Roll face curb
- Straight face curb



## Active Transportation

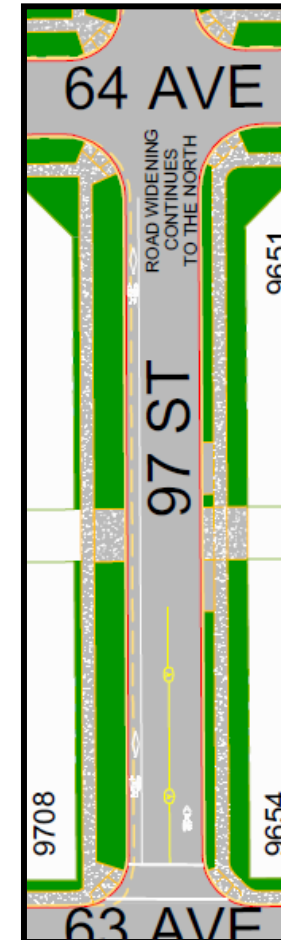
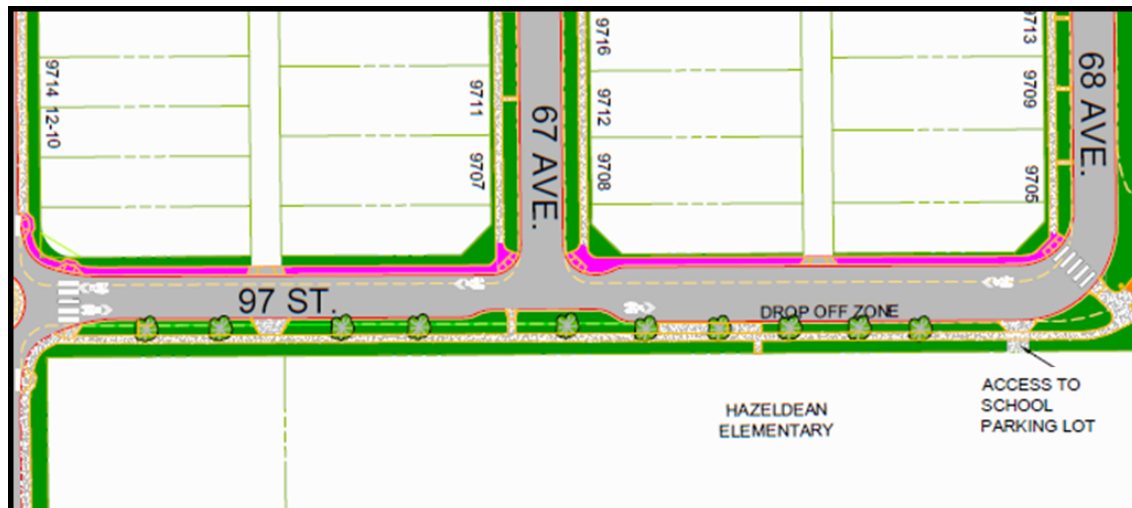
### Improve infrastructure

- **Sidewalks:** In residential neighbourhoods, ensure accessibility to all bus stops and provide a sidewalk on at least one side of the street.
- **Bicycle routes:** Use the Bicycle Transportation Plan to implement bike lanes, shared-use lanes and shared-use pathways.



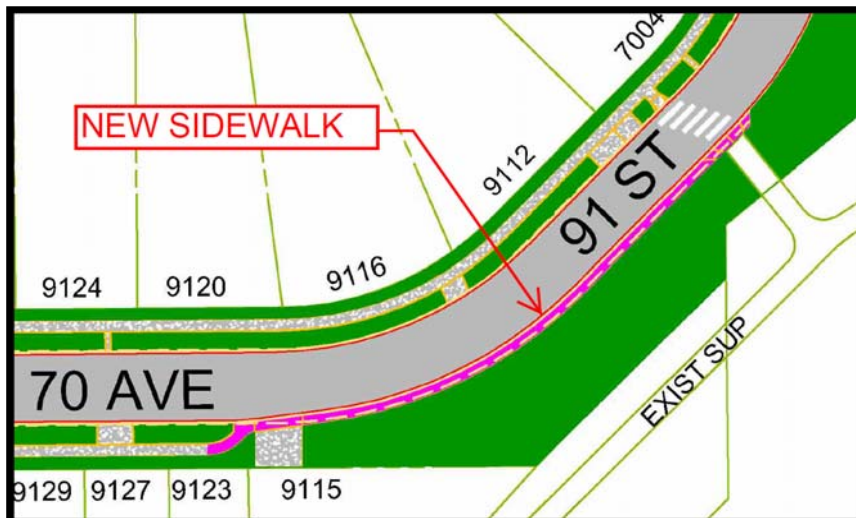
# Active Transportation

- 97 St from 63 Ave to 72 Ave
  - Bike route from 63 Ave to 72 Ave
  - Southbound bike lane from 63 Ave to 64 Ave



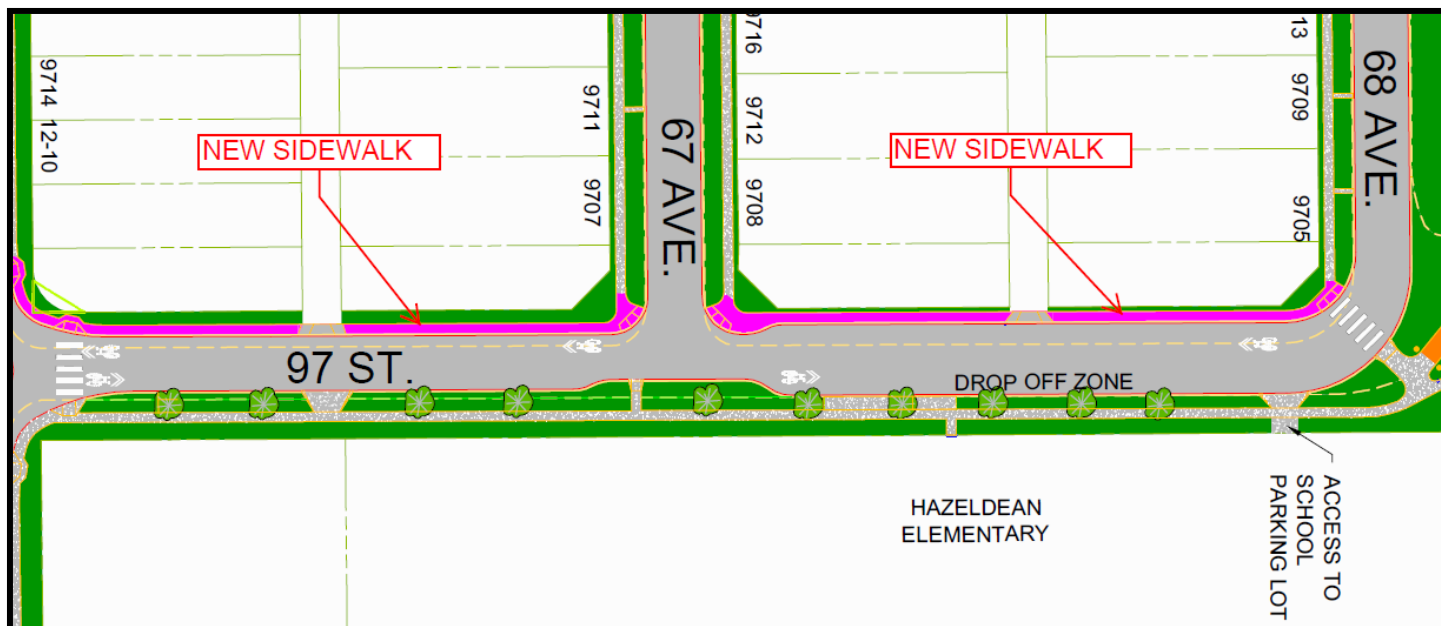
# Active Transportation

- New sidewalk along southeast side of 70 Ave/91 St



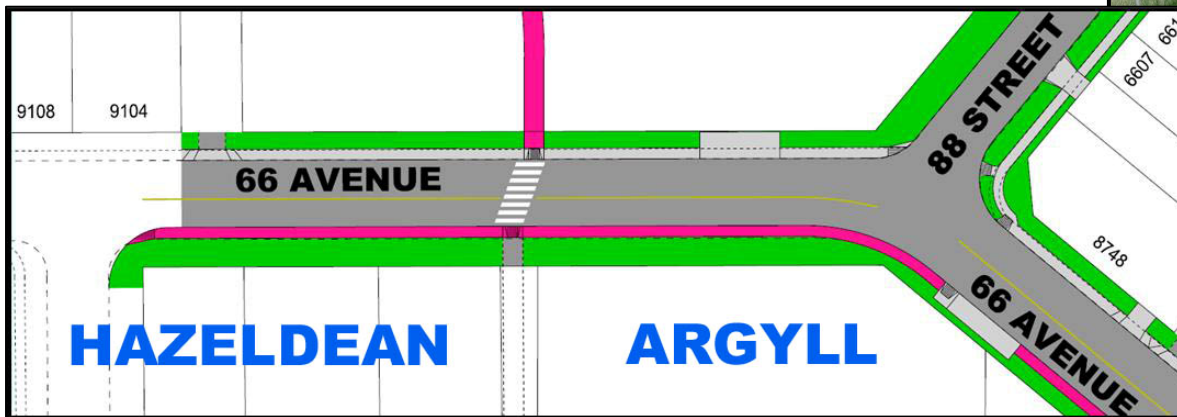
# Active Transportation

- 97 St from 66 Ave to 68 Ave
  - New sidewalk on the west side



# Active Transportation

- 66 Ave between 88 St & 91 St
  - Reduce the road by 1.5 m
  - Construct monolithic sidewalk on south side of 66 Ave
  - Reduces pedestrian crossing distance



# Road Width Upgrades

- Widening 8 m roads to 9 m to adhere to current City standards
  - 70 Ave from 99 St to 98 St



# Road Width Upgrades

- Widening 8 m roads to 9 m to adhere to current City standards
  - 97 St from 72 Ave to 69 Ave
  - 97 St from 68 Ave to 63 Ave

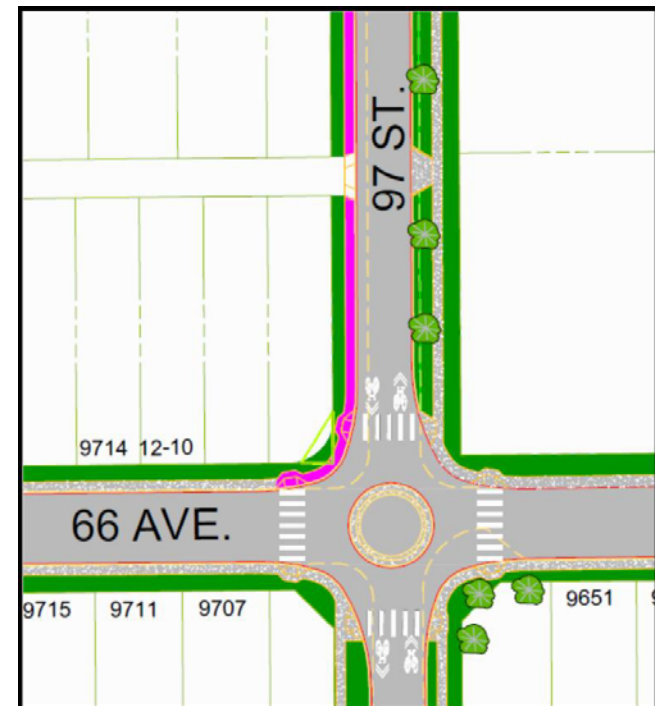


# Intersection Improvement

- 97 St at 66 Ave
  - Roundabout in place of the existing four-way stop
  - Promote a continuous flow for cyclists

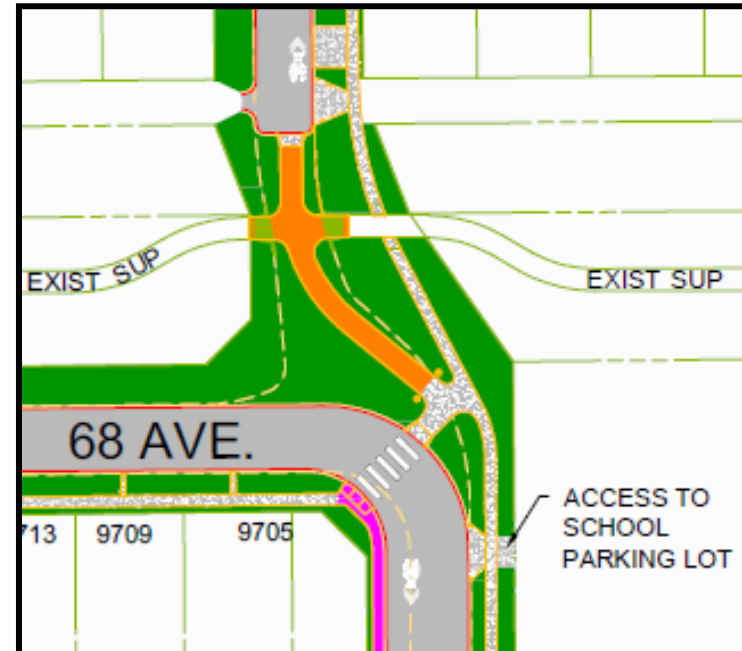


Photo taken by Peter Leung



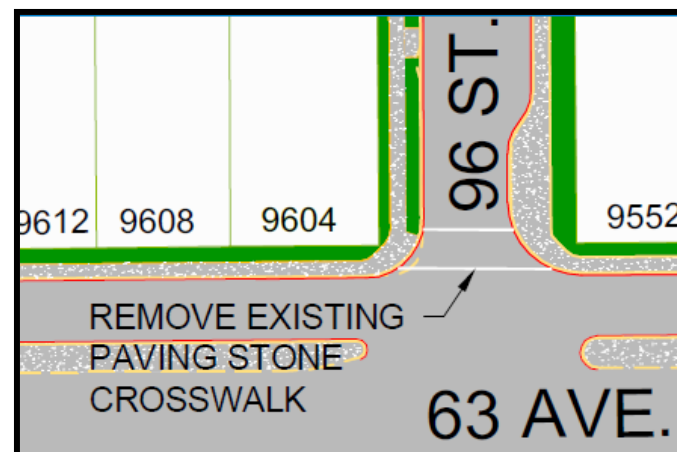
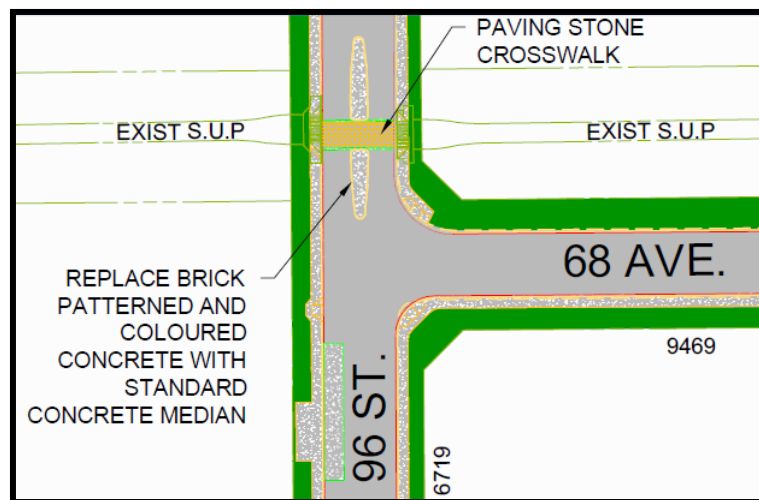
# Roadway Modification

- 97 St from 68 Ave to alley south of 69 Ave
  - Road closure
  - Promote a continuous flow for cyclists



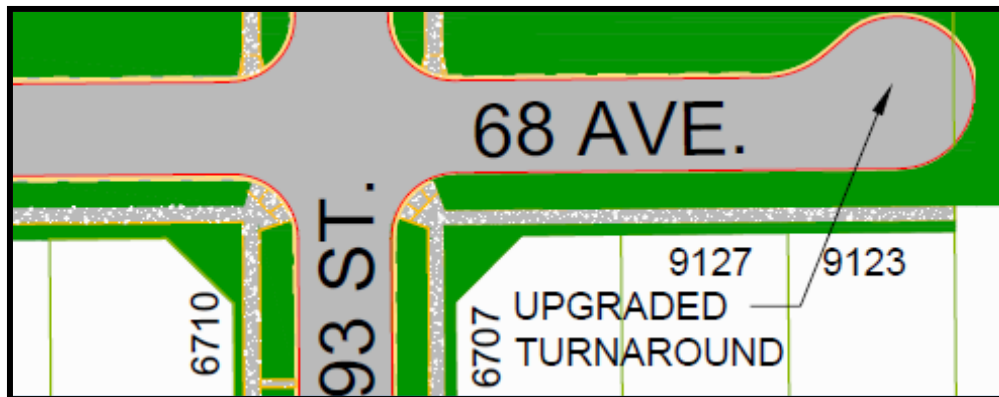
## Roadway Modifications on 96 Street

- Removal of bike slip ramps
- Replace coloured concrete islands with standard concrete islands
- Remove coloured brick crosswalk on 63 Ave



# Road Upgrade

- New curb and gutter along cul-de-sac on 68 Ave



## Curb Design

- Straight face curb
  - Collector roadways
  - Bus routes
  - School areas
  - Park areas
- Roll faced curbs
  - Local roadways



# Curb Design

ROLL FACE MONOWALK



STRAIGHT FACE MONOWALK



ROLL FACE BOULEVARD WALK



STRAIGHT FACE BOULEVARD WALK



# Street Light Design Standards

Neighbourhood street light system

- Upgraded to energy efficient LED lighting, the new City standard for street lights.



## Construction Staging

- Construction will be staged over 2 years (2013-14)
- Ultimate staging is dependant on weather conditions, coordination with other utilities, and unforeseen design and construction issues
- To create minimal disturbance for students, construction activities around the schools will be scheduled during the summer months

