



Knightsbridge Community Low Impact Development (LID) Study

BACKGROUND

Stormwater management is a system that collect and manage rainwater from surfaces such as roads, rooftops, parking lots, and landscaped areas. In the past, this was done through underground pipes that carried rainwater directly to nearby creeks and rivers. The Knightsbridge community was built using this design.

Today, stormwater management focuses on managing rainwater where it falls. This includes using green features, called Low Impact Development (LID), that help soak up, filter, and slow down rainwater.

PROJECT GOALS

- Reduce stormwater runoff and improve water quality
- Improve safety for all road users, especially pedestrian's crossing intersections
- Support active transportation (walking and cycling)
- Enhance the look and feel of the neighbourhood with more green space and trees

ABOUT THIS PROJECT

This project will explore how LID features can be added to streets in the Knightsbridge community. To make space for these features, the road layout may be redesigned. These changes will also help improve pedestrian safety by reducing the width of roads and making crossings shorter and easier.

WHY THIS MATTERS

- Reduced risk of flooding and standing water
- Cleaner local waterways (Spring Creek)
- Safer, more comfortable streets for everyone
- More green space and improved neighbourhood aesthetics

Get Involved

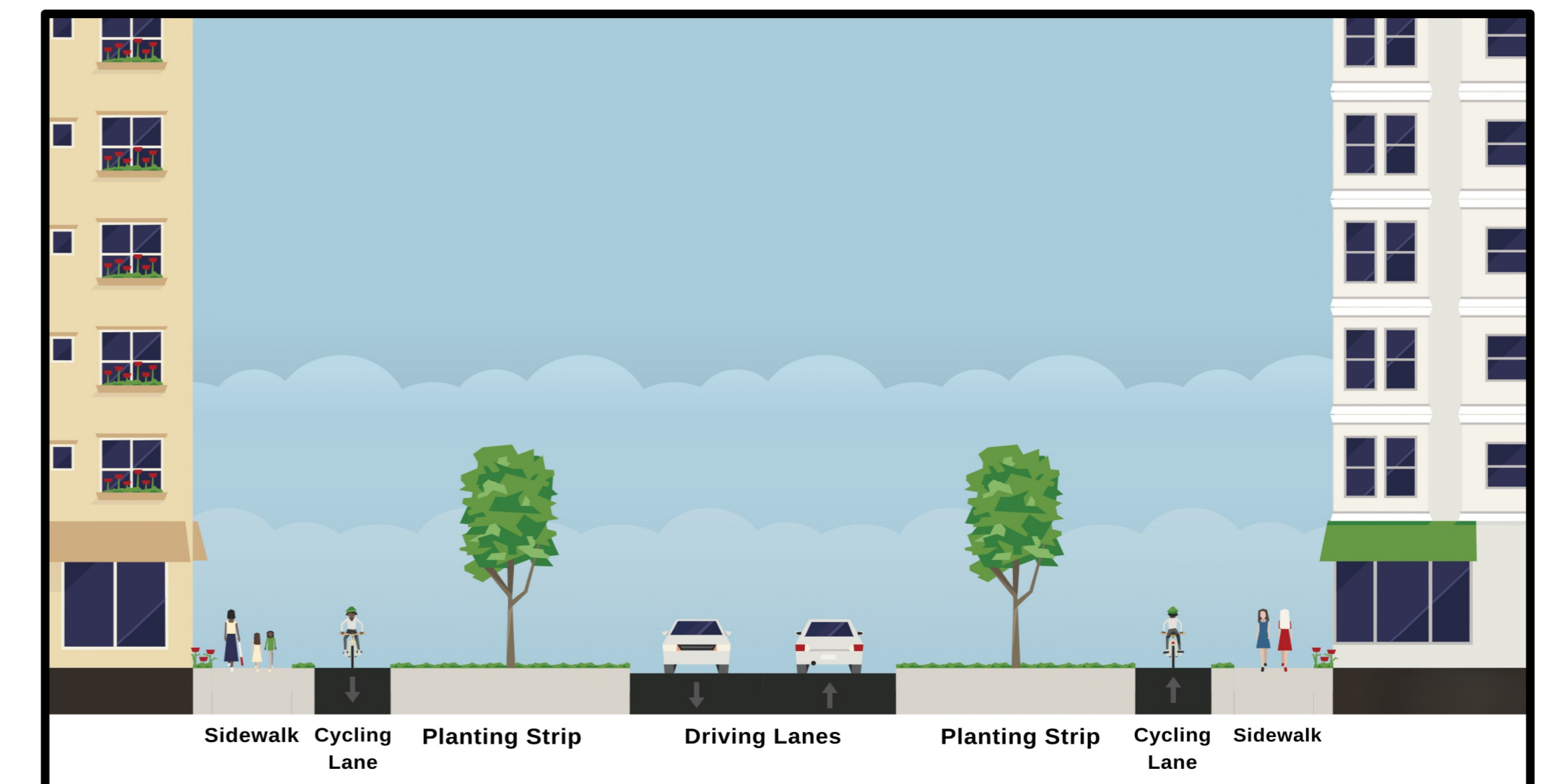
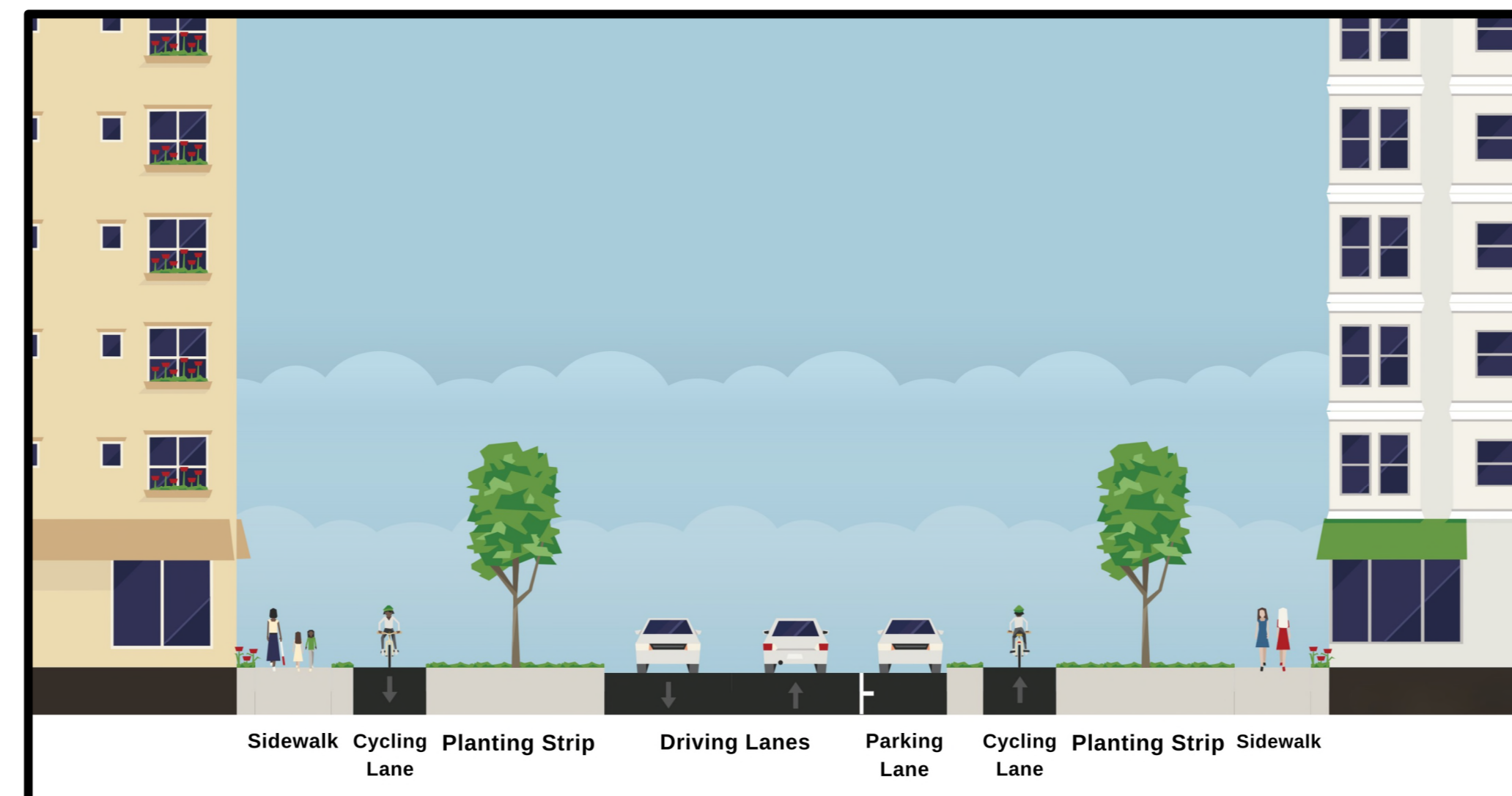
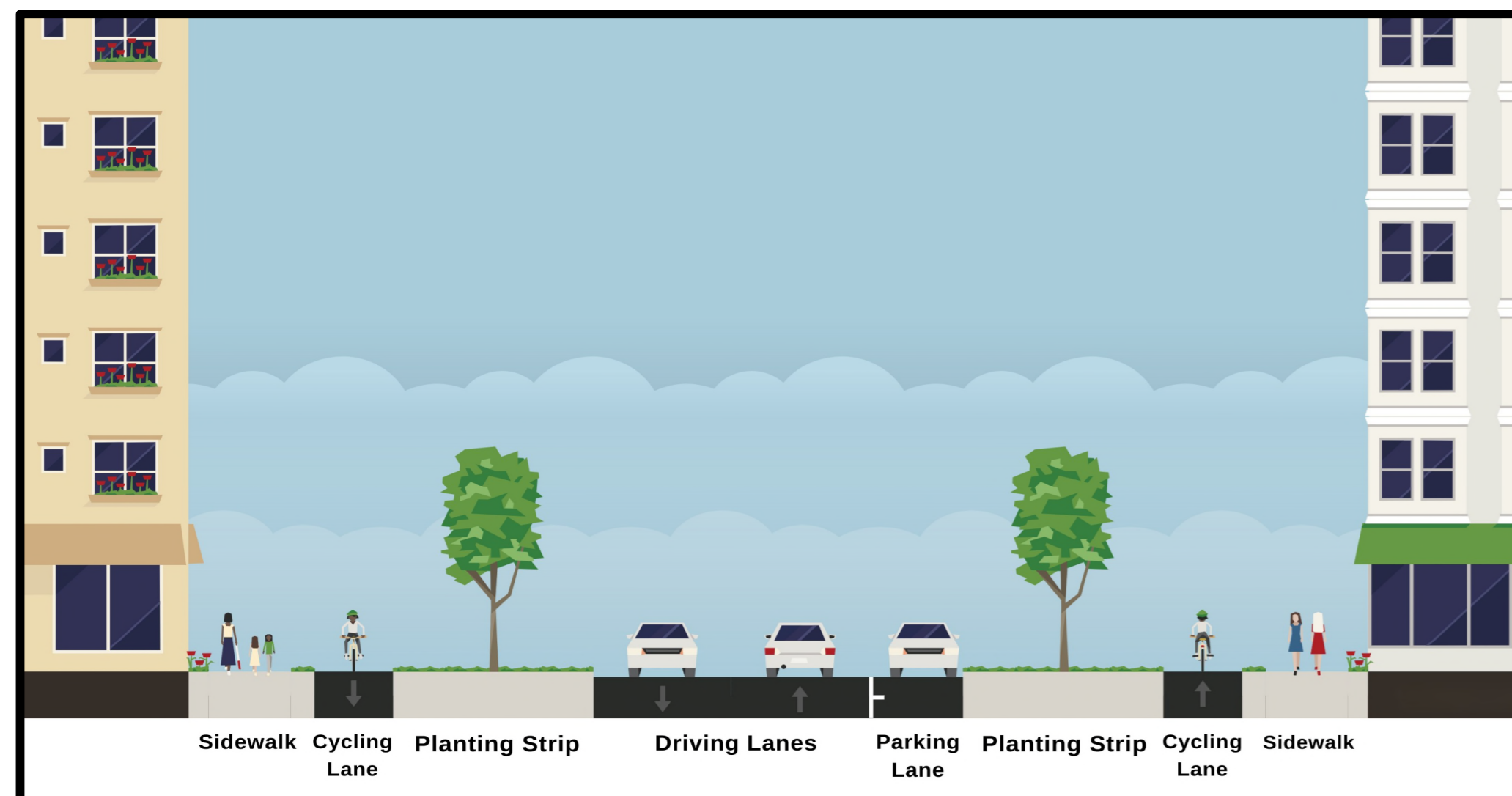
We want to hear from you! Your feedback will help shape the future design of your neighbourhood.



CURRENT ROAD DESIGN

- Limited space for people walking and cycling
- Rainwater from roads and nearby areas flows directly into storm drains
- There are no features in place to clean or treat this water
- This runoff eventually flows into Spring Creek, affecting water quality

PROPOSED ROAD DESIGN OPTIONS



Option 1: Balanced Design

- Includes parking lane
- Bike paths separated from traffic by green space
- Planting strips for greenery and stormwater management

Best for: Balancing parking, biking and green space.

Option 2: Shared Space Design

- Includes parking lane
- One bike path beside the sidewalk, one bike path beside parking lane with a grass buffer
- Moderate space for greenery and stormwater management

Best for: Maintaining parking with improved safety and green space.

Option 3: Greenest Design

- No parking lane
- Wider planting areas
- Maximum space for greenery and stormwater management

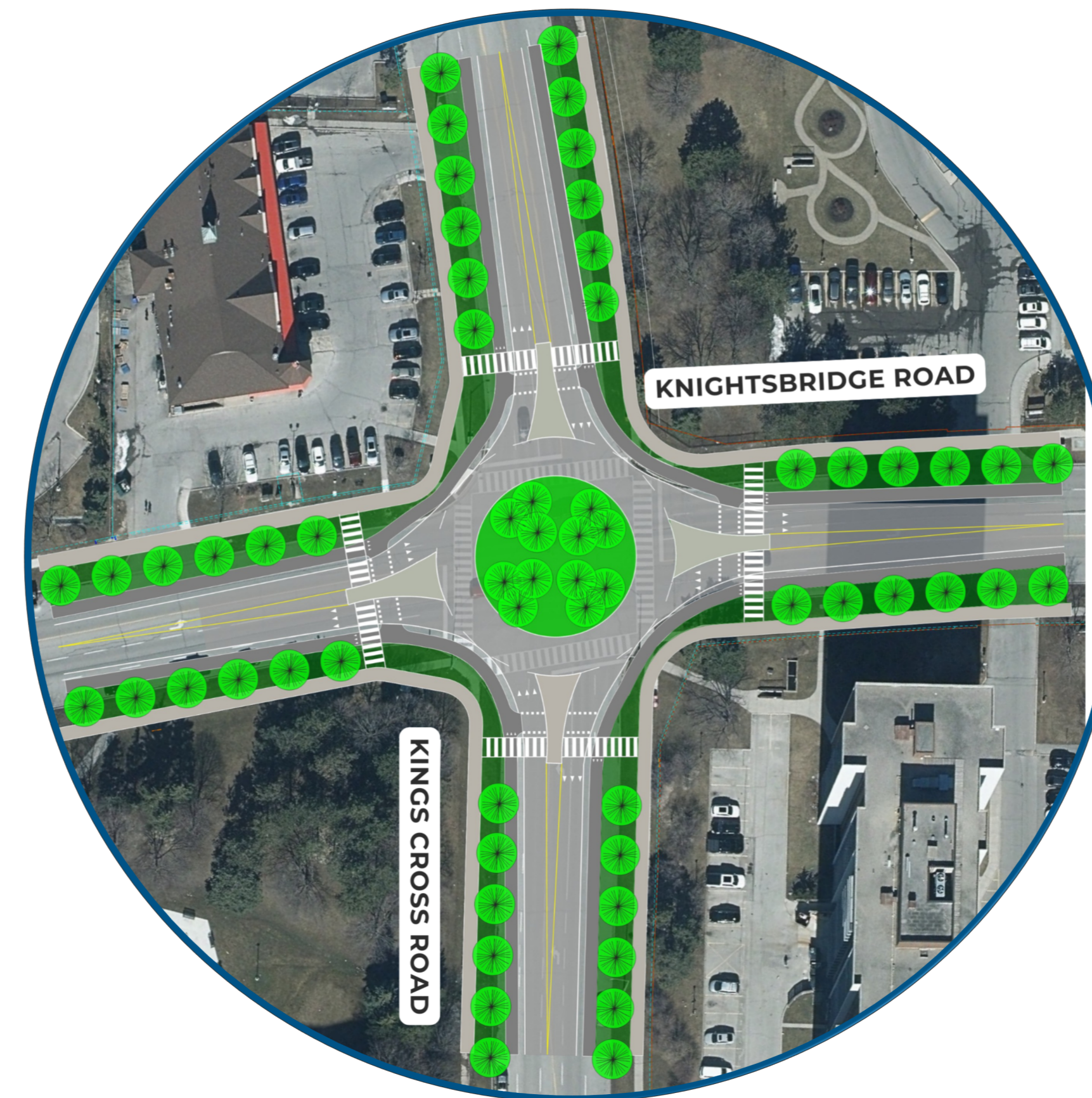
Best for: Maximizing greenery and stormwater benefits.

PROPOSED INTERSECTION OPTIONS



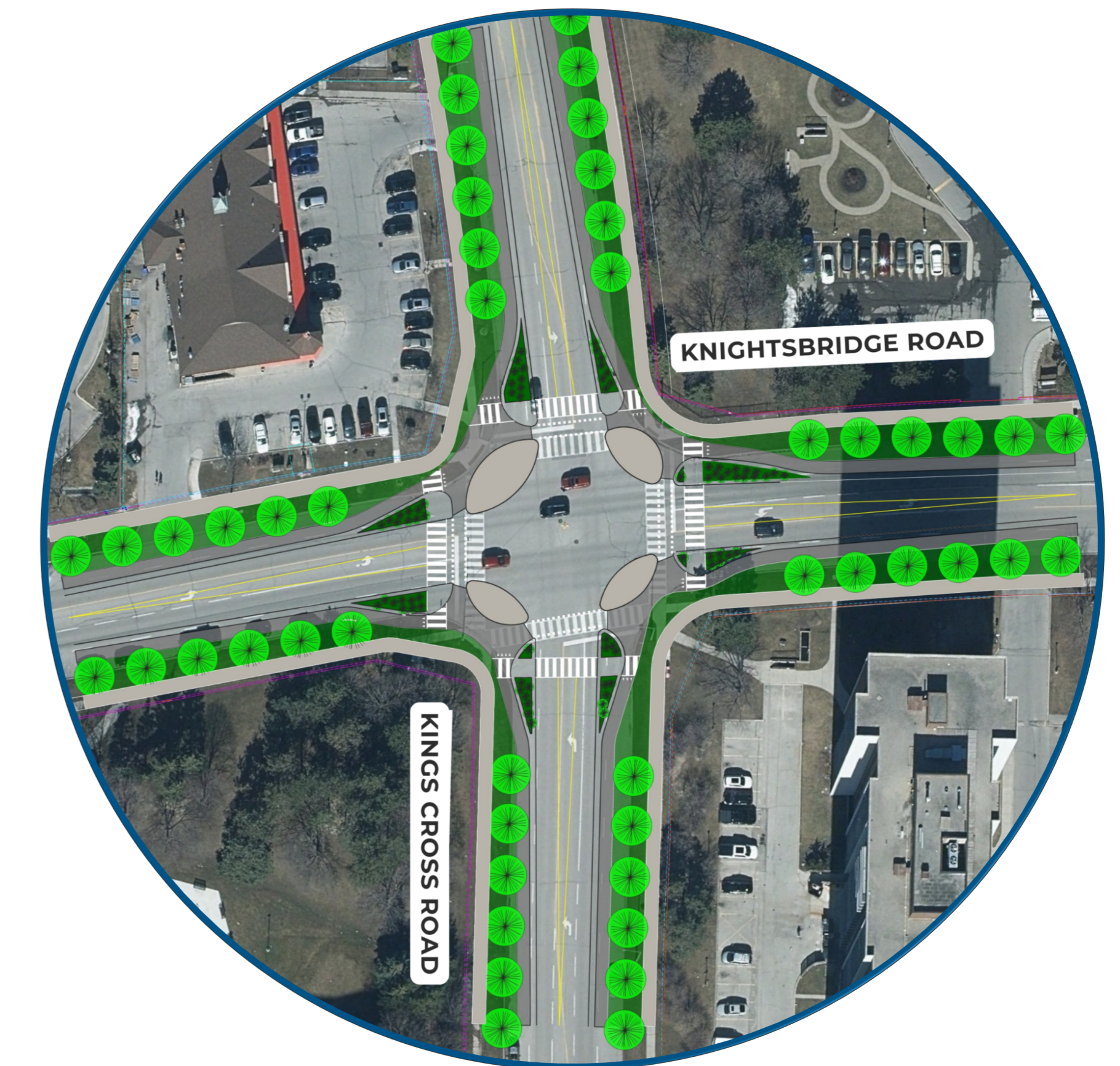
CURRENT INTERSECTION

- Wide, multi-lane road in a residential neighbourhood
- No traffic signals, and long crossing distances can make it difficult for pedestrians
- No dedicated space for cyclists



Option 1: Roundabout

- Reduced crossing distance
 - Pedestrians cross one direction of traffic at a time
 - Drivers yield to pedestrians
- Results in:**
- Continuous traffic flow
 - Opportunity for green space in the centre



Option 2: All-Way Stop Controlled Intersection

- Reduced crossing distance
 - All vehicles come to a complete stop
 - Pedestrians cross both directions of traffic
- Results in:**
- Slower traffic
 - Improved pedestrian safety
 - Opportunity for green space in traffic islands

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WHAT IS LOW IMPACT DEVELOPMENT (LID)?

Low Impact Development (LID) uses natural features to manage rainwater where it falls.

PROPOSED LID OPTIONS



Option 1: Permeable Pavement

- Captures rainwater from paved surfaces (e.g., parking areas and boulevards)
- Reduces runoff to the river



Option 2: Tree Trench

- Captures and treats rainwater in planted areas
- Support City's One Million Trees Program
- Improves water quality and reduces runoff



Option 3: Bioretention

- Captures and treats rainwater in planting areas
- Improves water quality and reduces runoff

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