

Active Transportation: Corridor Improvements

June 2022

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Project background

- The City of Edmonton is expected to grow to two million people in the coming decades
- Safe / convenient transportation options are required for all users (walking, cycling, wheeling, taking public transit and driving)
- Active transportation networks must be enhanced and expanded



Project overview

- Planning and design is underway to expand active transportation infrastructure as identified in the City's **Bike Plan** along:
 - 5 corridors
 - 2 area networks
- Locations are identified as either future routes or missing links in the **Bike Plan**

Project scope: Corridors

- Active transportation improvements are being planned for the following arterial corridors:
 - Fort Road - 127 Avenue to 153 Avenue
 - 127 Street - Yellowhead Trail to 137 Avenue
 - 106 Street - Princess Elizabeth Avenue to 118 Avenue
 - 102 Avenue - 136 Street to 139 Street
 - 100 Avenue - 102 Street to 103 Street

Project timeline: Corridors

- The designs are progressing and should be complete by the end of this year:
 - Phase 1: Concept design - Summer 2022
 - Phase 2: Preliminary design - December 2022
- There is currently no timeline for construction

What was considered during the design process

- Minimize impacts to land
- Minimize impacts to the environment
- Provide consistency and connectivity with existing paths and lanes, where possible
- Improve active transportation infrastructure and safety for users while maintaining the level of service for drivers

Fort Road - 127 Avenue to 153 Avenue

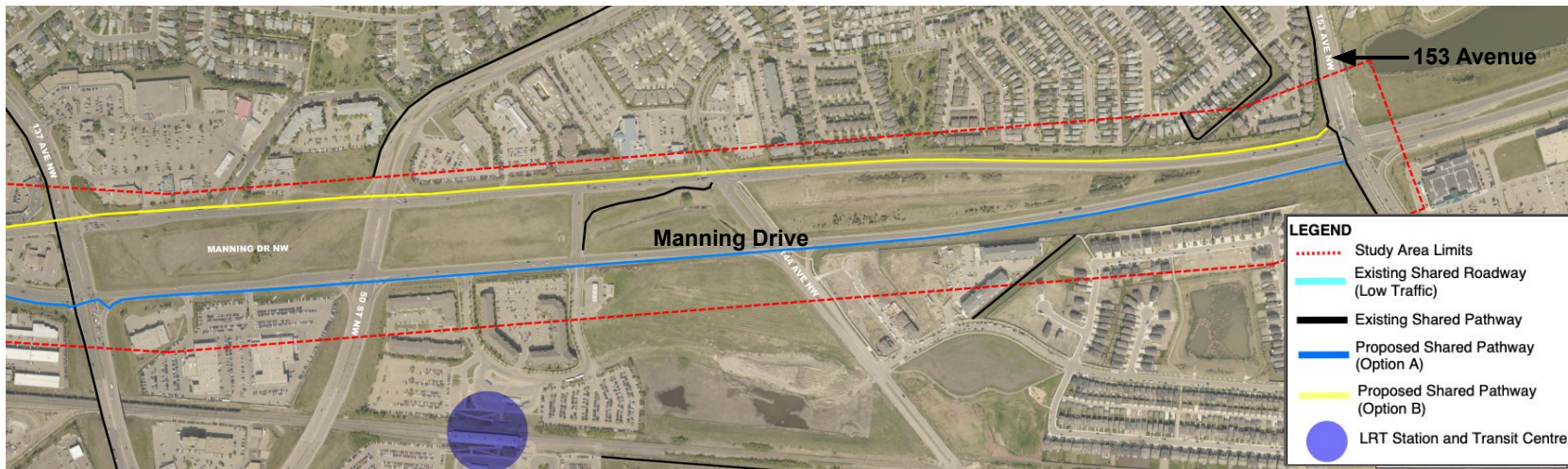
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Project area overview

- Fort Road is a divided arterial roadway with two to three lanes in each direction and a wide median north of 137 Avenue
- Shared pathways currently exist along:
 - 137 Avenue
 - 153 Avenue
 - The LRT corridor to the south to 66 Street
- Intent is to complete the gap from the 66 Street shared pathway on the southeast side of the corridor to the 153 Avenue shared pathway running east-west

Fort Road Design Options



LEGEND

- Study Area Limits
- Existing Shared Roadway (Low Traffic)
- Existing Shared Pathway
- Proposed Shared Pathway (Option A)
- Proposed Shared Pathway (Option B)
- LRT Station and Transit Centre

Fort Road Design Options

Option A - Shared pathway on the east side of Fort Road

Option B - Shared pathway on the west side of Fort Road

In both options:

- Path may be constructed within boulevard or curb may need to be shifted
- Travel lanes may narrow but not be removed

Option A - Shared pathway on east side of Fort Road

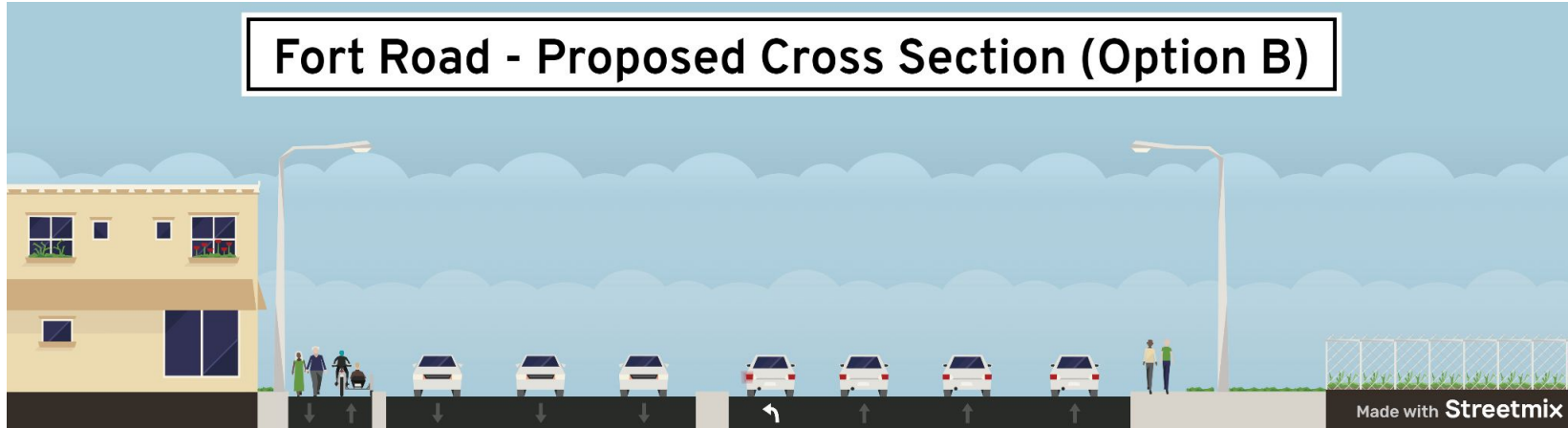
Fort Road - Proposed Cross Section (Option A)



The pathway is located closer to the Belvedere and Clareview LRT stations and transit centres.

Option B - Shared pathway on west side of Fort Road

Fort Road - Proposed Cross Section (Option B)



The pathway is located closer to the nearby residential neighbourhoods (e.g., Belvedere).

127 Street - Yellowhead Trail to 137 Avenue

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Project area overview

- 127 Street is an undivided arterial roadway with two travel lanes in each direction
- A reversible lane switches direction to accommodate peak direction travel
- Existing shared pathways are located along:
 - West side of 127 Street from Yellowhead Trail to 127 Avenue
 - West side of 127 Street north of 137 Avenue
- Intent is to complete the gap between these two pathways

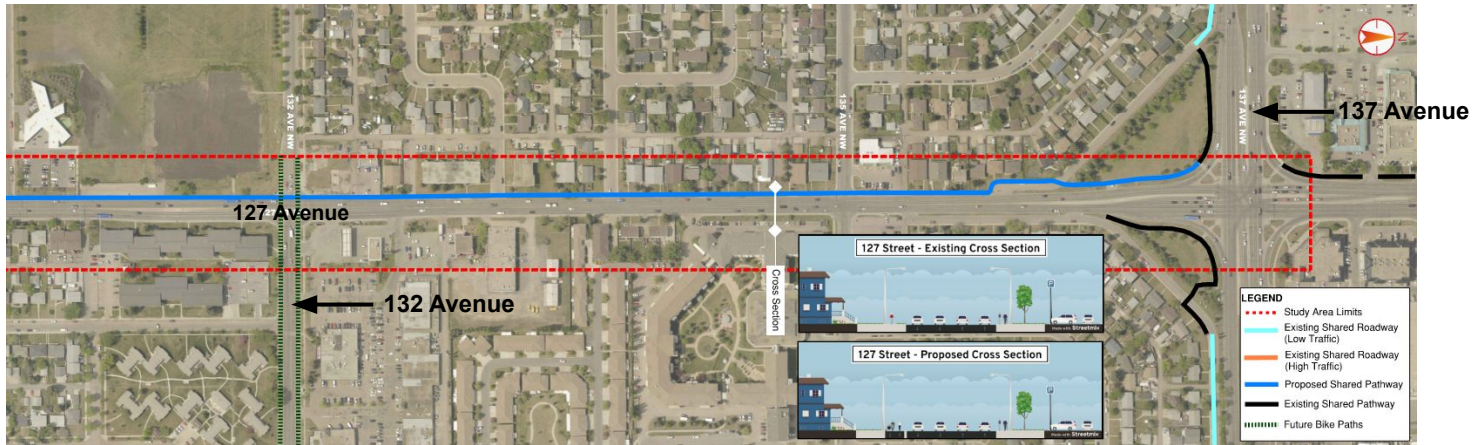
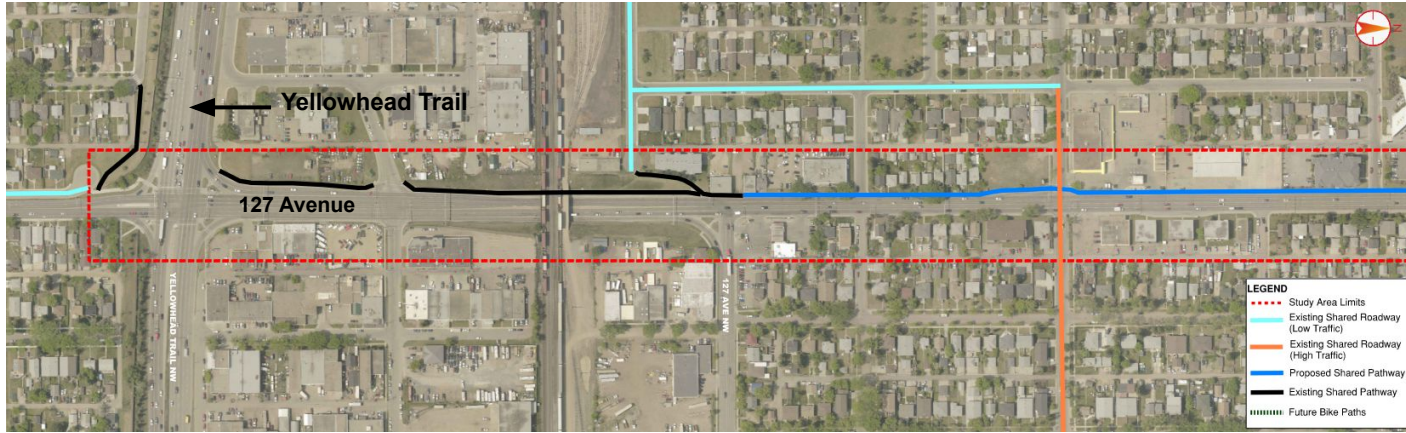
Proposed design - Shared pathway on west side

- The existing shared pathway south of 127 Avenue will be extended north to 137 Avenue and connect to existing shared pathways to the north
- In some areas, the existing boulevard will allow for the sidewalk to be widened to a shared pathway
- In other areas, the vehicle lanes will be narrowed and the west curb will be shifted east to allow for a wider boulevard for the new shared pathway

Considerations

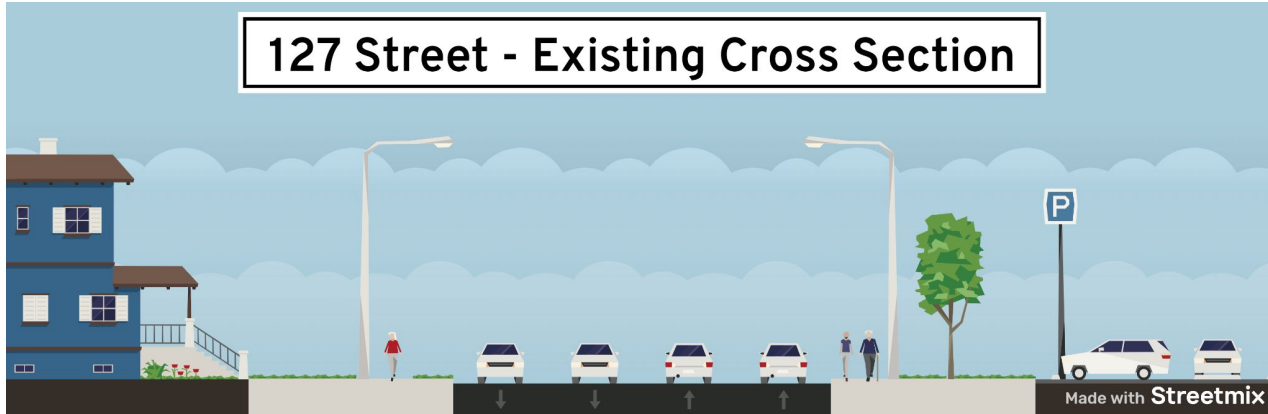
- May be impacts to trees however, they will be avoided wherever possible
- Some streetlights may need to be relocated
- Only one feasible option identified due to existing active transportation network and technical constraints

Proposed design: Shared pathway on west side

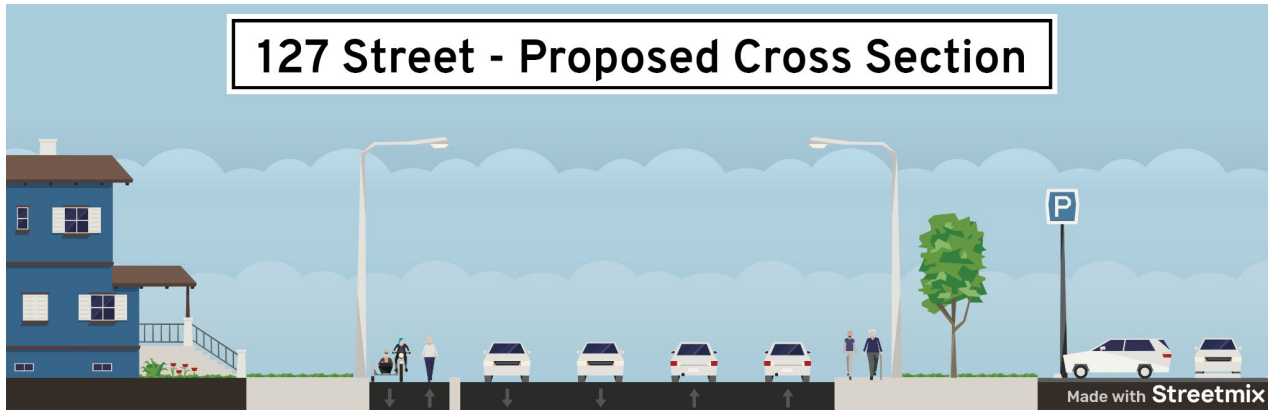


127 Street cross section - existing and proposed

127 Street - Existing Cross Section



127 Street - Proposed Cross Section



**106 Street - Princess Elizabeth
Avenue to 118 Avenue**

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Project area overview

- 106 Street is a divided arterial roadway with two travel lanes in each direction and a centre median
- Existing shared pathways are located along the:
 - East side of 106 Street from 111 Avenue to Princess Elizabeth Avenue
 - East side of 106 Street north of 118 Avenue
- Intent is to complete the gap between these two pathways
- Corridor travels through the NAIT campus

Proposed design - Shared pathway on east side

- Existing sidewalk will be widened to a shared pathway
- Two possible ways to accommodate the pathway:
 - Existing centre median may be removed and the east curb extended to create a wider boulevard

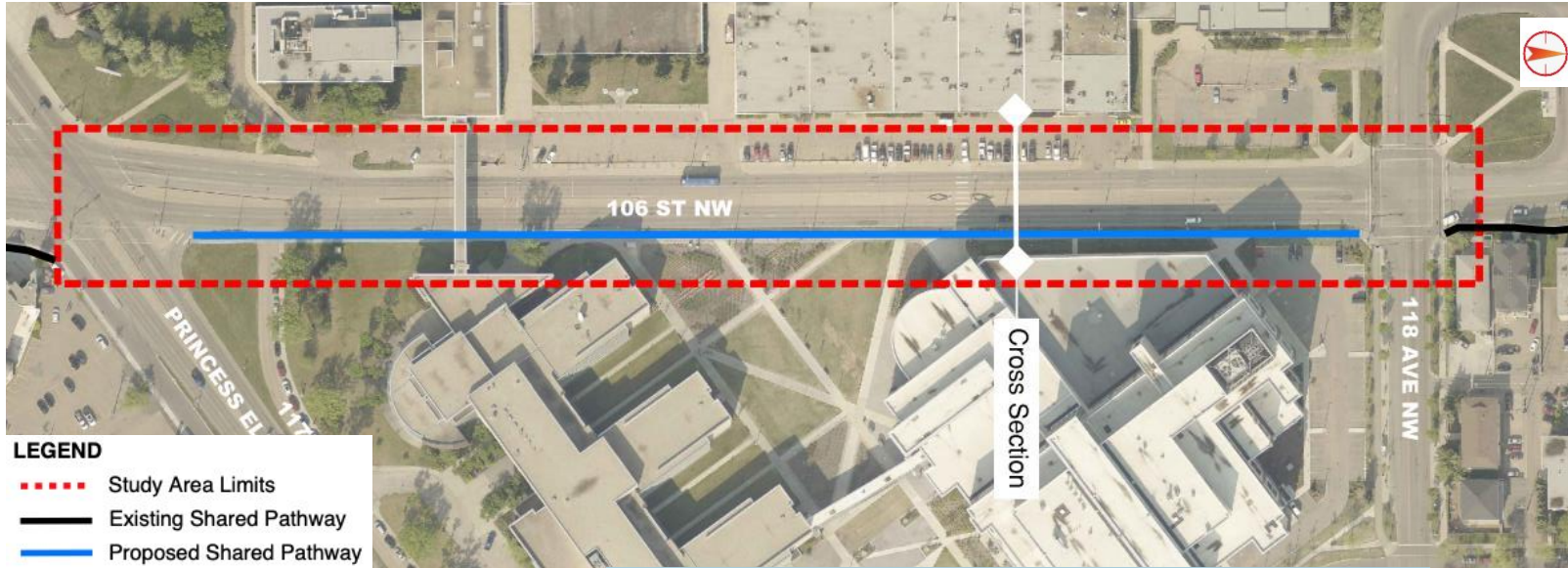
Or

 - Space from existing boulevard may be reallocated to widen existing sidewalk
- Both approaches will be explored further in the design phase

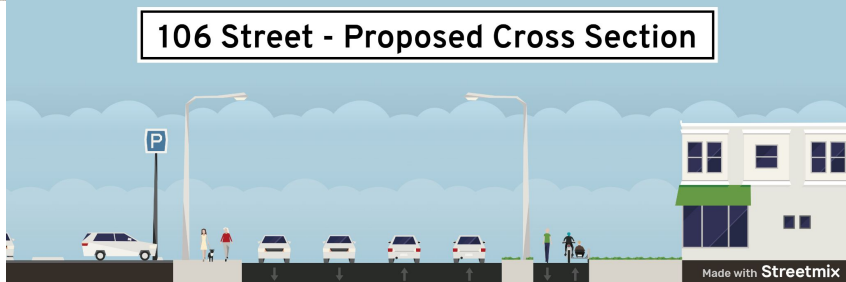
Considerations

- Some streetlights may need to be relocated
- This busy campus pathway would be used for both bikes and pedestrians

106 Street - Princess Elizabeth Avenue to 118 Avenue



106 Street - Proposed Cross Section



102 Avenue - 136 Street to 139 Street

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Project area overview

- 102 Avenue is an undivided arterial roadway with two travel lanes in each direction
- Existing shared pathway located along north side east of 136 Street
- West of 139 Street, active transportation improvements are anticipated as part of Valley Line West construction
- Intent is to complete the gap between these two areas

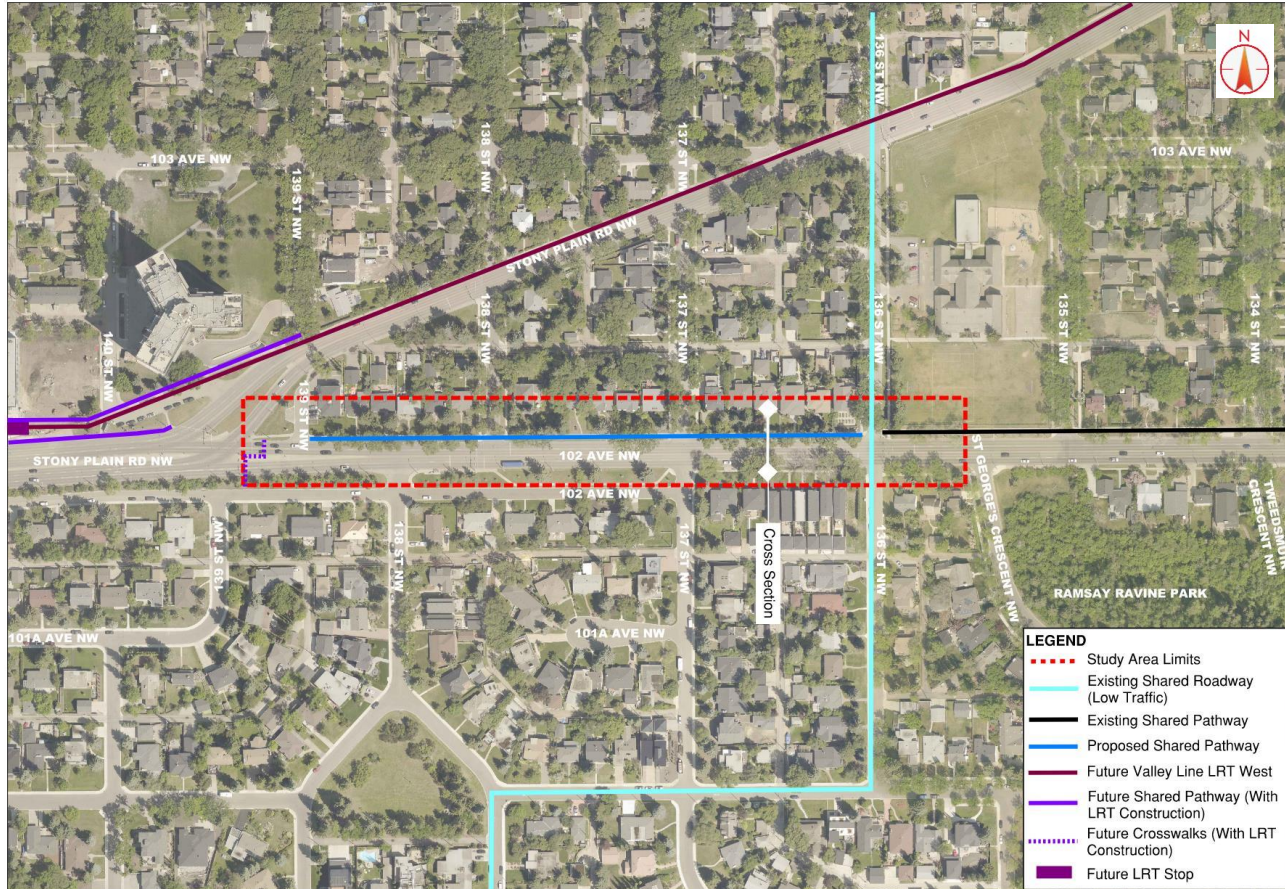
Proposed Design - Shared pathway along north side of 102 Avenue

- Existing shared pathway at 136 Street will be extended west to 139 Street
- It will connect with improvements related to the future Valley Line LRT

Considerations

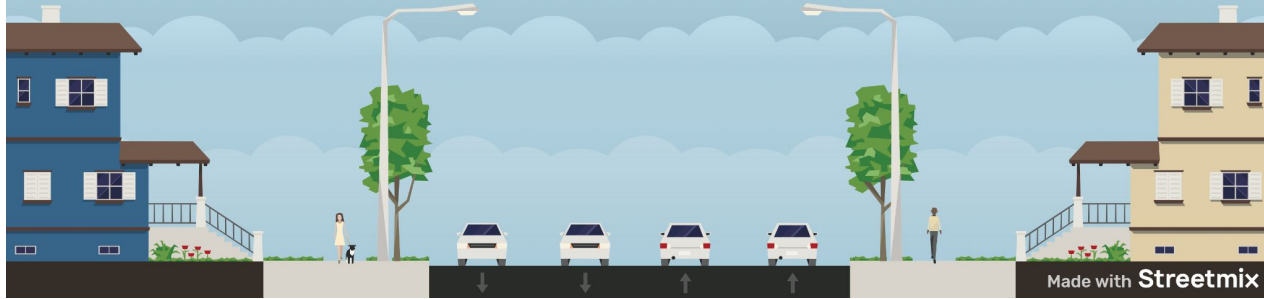
- There may be impacts to trees, however they will be avoided wherever possible
- Only one feasible option was identified for this corridor due to existing active transportation network

102 Avenue - 136 Street - 139 Street

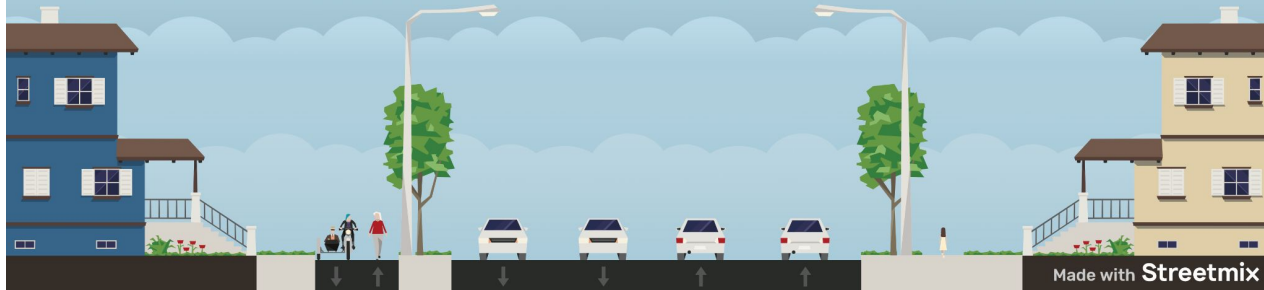


102 Avenue Cross Section

102 Avenue - Existing Cross Section



102 Avenue - Proposed Cross Section



100 Avenue - 102 Street to 103 Street

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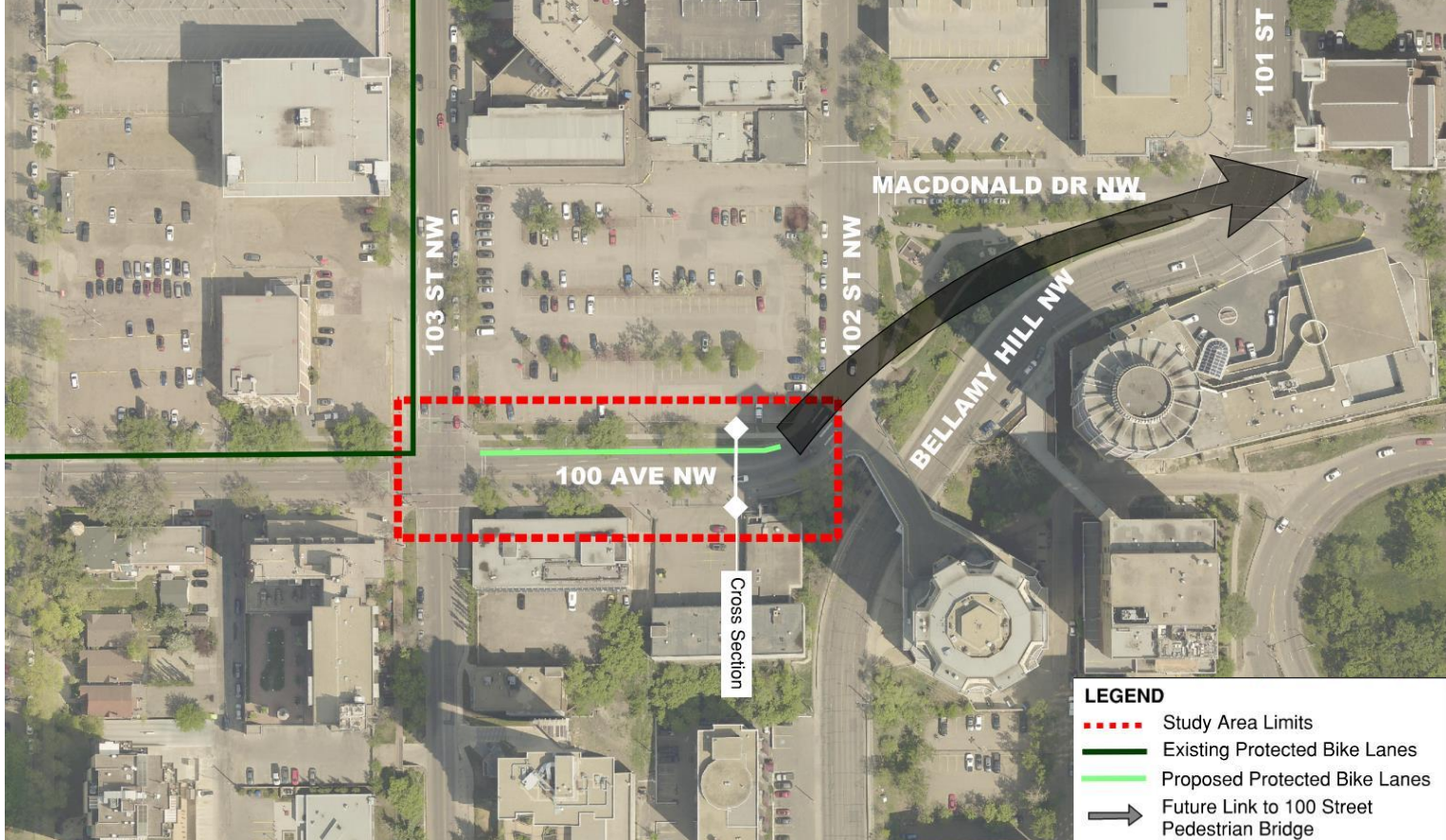
100 Avenue - 102 Street to 103 Street

- Undivided arterial roadway with one travel lane in each direction.
- Existing two-way protected bike lane runs along:
 - North side of 100 Avenue west of 103 Street
 - West side of 103 Street north of 100 Avenue

Proposed Design - Protected two-way bike lane along north side of 100 Avenue

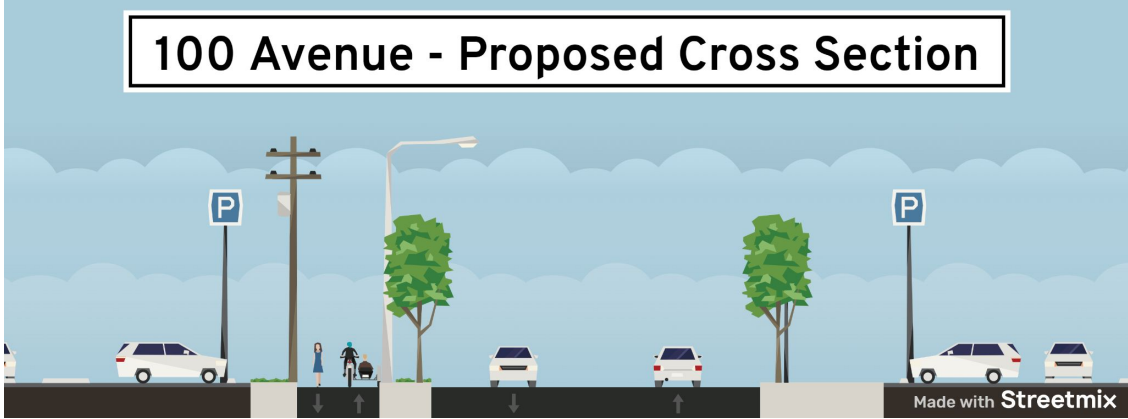
- A protected two-way bike lane along the north side of 100 Avenue, as an extension of the existing lane west of 103 Street

100 Avenue - 102 Street to 103 Street

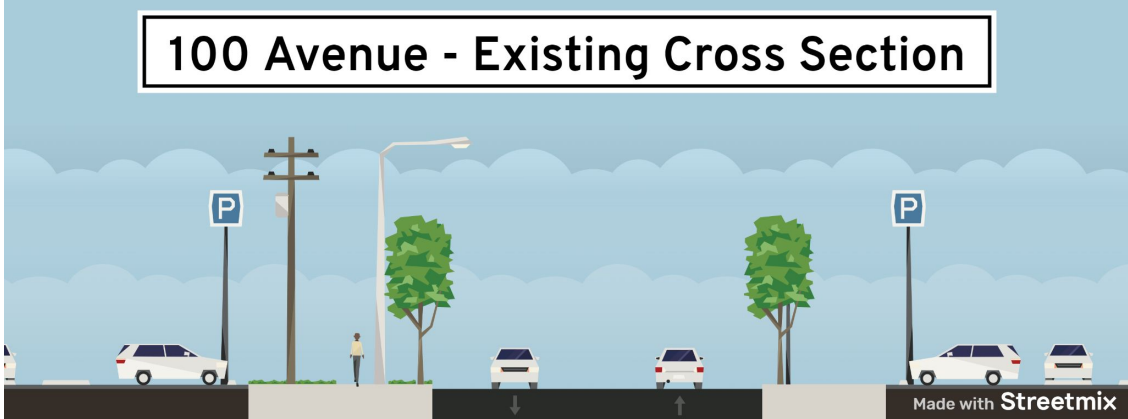


100 Avenue - 102 Street to 103 Street

100 Avenue - Proposed Cross Section



100 Avenue - Existing Cross Section



Thank you

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