



Design Criteria



Below are the criteria used to identify existing issues and design solutions for the NE/SE 50's Bikeway Project.

Overall alignment:

- **Direct**
The straighter the alignment the better (faster, shorter bicycle trips between destinations).
- **Easy to follow**
Route finding is simple and straightforward.
- **Continuous**
There are no missing connections for safe, convenient cycling.
- **Connected**
Convenient connections to the other routes within the bicycle network.
- **Non-strenuous**
Avoid hills.

Major Street Crossings:

- **Safe**
Users feel and are safe when crossing high traffic volume streets.
- **Minimal delay**
Users do not encounter long waits for safe crossings of high traffic volume streets.

Route segments:

- **Comfortable, low stress, safe riding environment**
Low traffic volumes and speeds when mixed with traffic; separation (bike lanes) in high traffic volume/speed environments

Important Technical Measures:

- **Crossing Gaps**
Adequate crossing gaps at un-signalized intersections: minimum 60/ peak hour
- **Volumes:**
Arterial streets (>3,000 vehicles/day – separation of cars and bikes needed

Local streets- Ideally less than 1,000 cars a day for shared use of the travel lanes.

Traffic speeds:

Local streets: 20 - 25 mph