



# Bike Bellevue

Transportation Commission  
September 14, 2023

Franz Loewenherz, City of Bellevue  
Chris Breiland, Fehr & Peers  
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Transportation



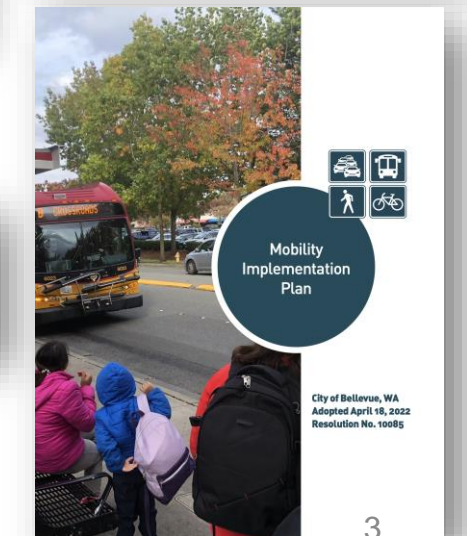
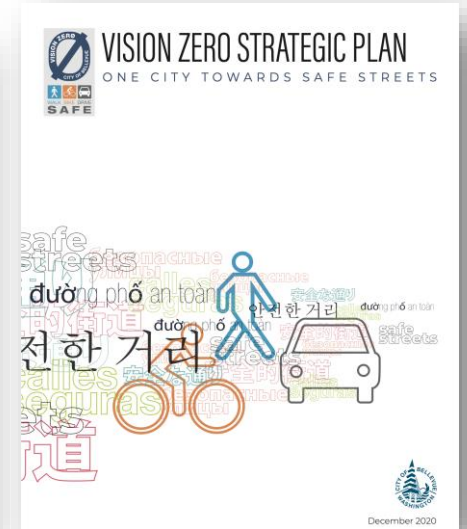
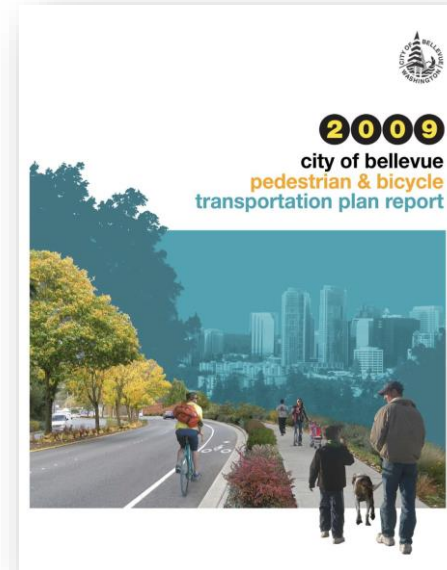
# Agenda

- Background
- Community Engagement
- DRAFT Concept Guide sections
- Bike Bellevue Corridors
- No action is requested tonight



# Bike Bellevue Background

- Confluence of several Transportation Department efforts
- Next step in Bellevue's active mode and safety implementation
- Consistent with Mobility Implementation Plan





# Bike Bellevue Background

CIP (PW-W/B-85) description: *“Growth Corridor High Comfort Bicycle Network Implementation” (AKA: Bike Bellevue)*

- \$4.5 million in 2023-29 CIP.
- Design and implement rapid-build bicycle projects on existing streets in the Downtown, Wilburton, and BelRed neighborhoods.
- Establish grid of safe and comfortable connections to key destinations for people of all ages and abilities.



# Bike Bellevue Principles



## Safety

Reduce the frequency and severity of crashes and minimize conflicts between roadway users through bikeway design.



## Connectivity

Implement a connected network of bicycle lanes that facilitate access to major destinations.



## Comfort

Design bicycle lanes that maximize separation between motor vehicles and people bicycling on streets with higher speed limits and more vehicle traffic.



## Evaluation

Use a data informed approach to evaluate impacts to all modes of travel and design the program to maximize the mobility of all modes.



## Coordination

Coordinate transportation and land use efforts underway in Bellevue to ensure equity and sustainability outcomes are aligned.



## Partnerships

Identify partnership opportunities to advance the implementation of bicycle projects.



## Engagement

Engage community stakeholders in setting the priorities for Bike Bellevue investments.



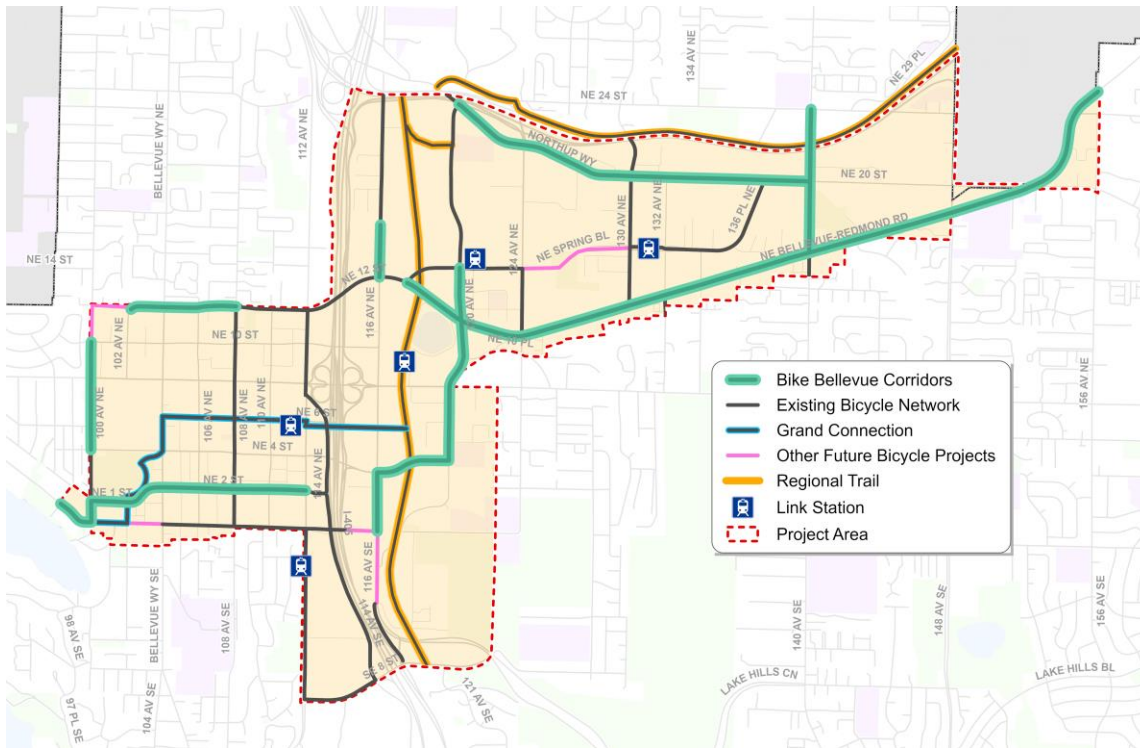
## Equity

Promote equity and inclusion in the development and delivery of bicycle projects. Consistent with the city's Diversity Advantage Plan, Bike Bellevue will center equity, access, inclusion, and opportunity in project delivery.



# DRAFT Project Area Map

## Current (September 2023)



## Previous (March 2023)





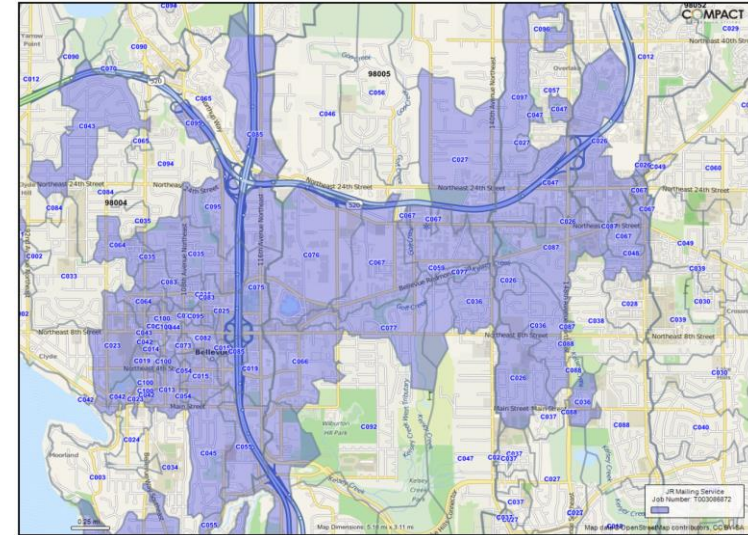
# **DRAFT** Design Concepts Guide





# Community Engagement

- Online engagement tool
- Mailer
- Yard signs
- Posters
- Focus groups
- Community events
- Public open house



Visit the project design feedback tool at [bikebellevue.konveio.com](http://bikebellevue.konveio.com) or scan the QR code below

請造訪 [bikebellevue.konveio.com](http://bikebellevue.konveio.com) 或掃描下方二維碼，以使用專案設計反饋工具

请访问 [bikebellevue.konveio.com](http://bikebellevue.konveio.com) 或扫描下方二维码，以使用项目设计反馈工具

Visite la herramienta de comentarios sobre el diseño del proyecto en [bikebellevue.konveio.com](http://bikebellevue.konveio.com) o escanee el código QR a continuación.

Чтобы открыть инструмент для отзывов о проектах, посетите сайт [bikebellevue.konveio.com](http://bikebellevue.konveio.com) или отсканируйте QR-код ниже

[bikebellevue.konveio.com](http://bikebellevue.konveio.com) వారాజాకాట్ డిజైన్ ఫీడ్ బ్యాక్ టూల్ టూల్ ను సందర్శించండి లేదా క్విండి QR కోడ్ ను స్కాన్ చేయండి.







# Online Engagement Tool



Bike Bellevue

Provide your feedback!

Home Project Overview

Select Language

The changes have been saved.

Choose the project overview or a corridor you would like to learn more about.



00 - Project Overview



01 - Northup Way / Northeast 20th



02 - Northeast 12th Street

## About

This site is for collecting community feedback on proposed bikeways for the City of Bellevue's Bike Bellevue program. Additional information can be found on the city webpage for Bike Bellevue.

Sign up for City of Bellevue email or text alerts related to biking and walking here.

You may view and comment on the concept plans for each corridor with a computer, tablet or mobile device. For best use, a computer or tablet with a large screen is recommended.

Click anywhere in the document to add a comment. Select a bubble to view comments.

Guided Tour Full Document

Powered by Konveio

<https://bikebellevue.konveio.com/>  
Comments by November 17, 2023





# Discussion

- Clarifying questions
- Discussion



# **DRAFT** Design Concepts Guide





# **DRAFT** Concepts Guide Pages

- Key Takeaways
- Transportation Vision
- Relationship to Mobility Implementation Plan



# What is Bike Bellevue?

**11 Bike Bellevue Corridors**

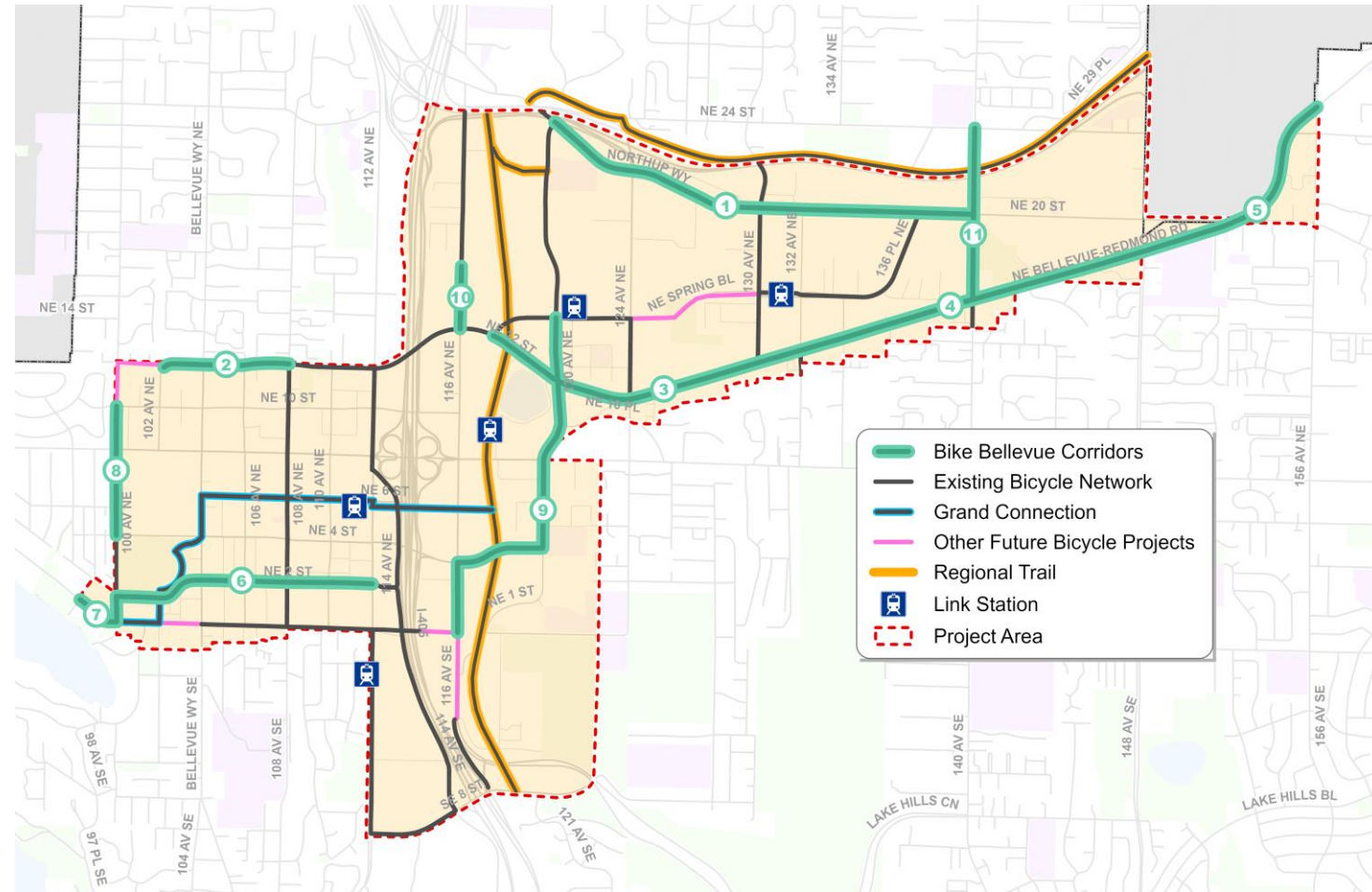
The City has identified 11 urban corridors to fill gaps in the existing network

Here's how the network looks today with significant gaps in connectivity

**Existing Network**

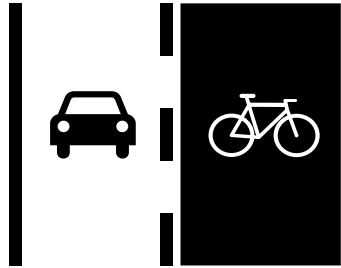
The future network links the urban core to surrounding neighborhoods and regional trails

**Future Network**



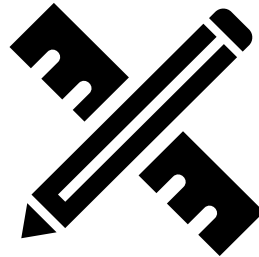


# Design Development Process



Alternatives Development

- Traffic analysis
- Queuing
- Bike design options
- Transit



Draft Corridor Concepts

- Striping
- Signals



Concepts Assessment

- Bike LTS
- V/C ratios
- Travel speed

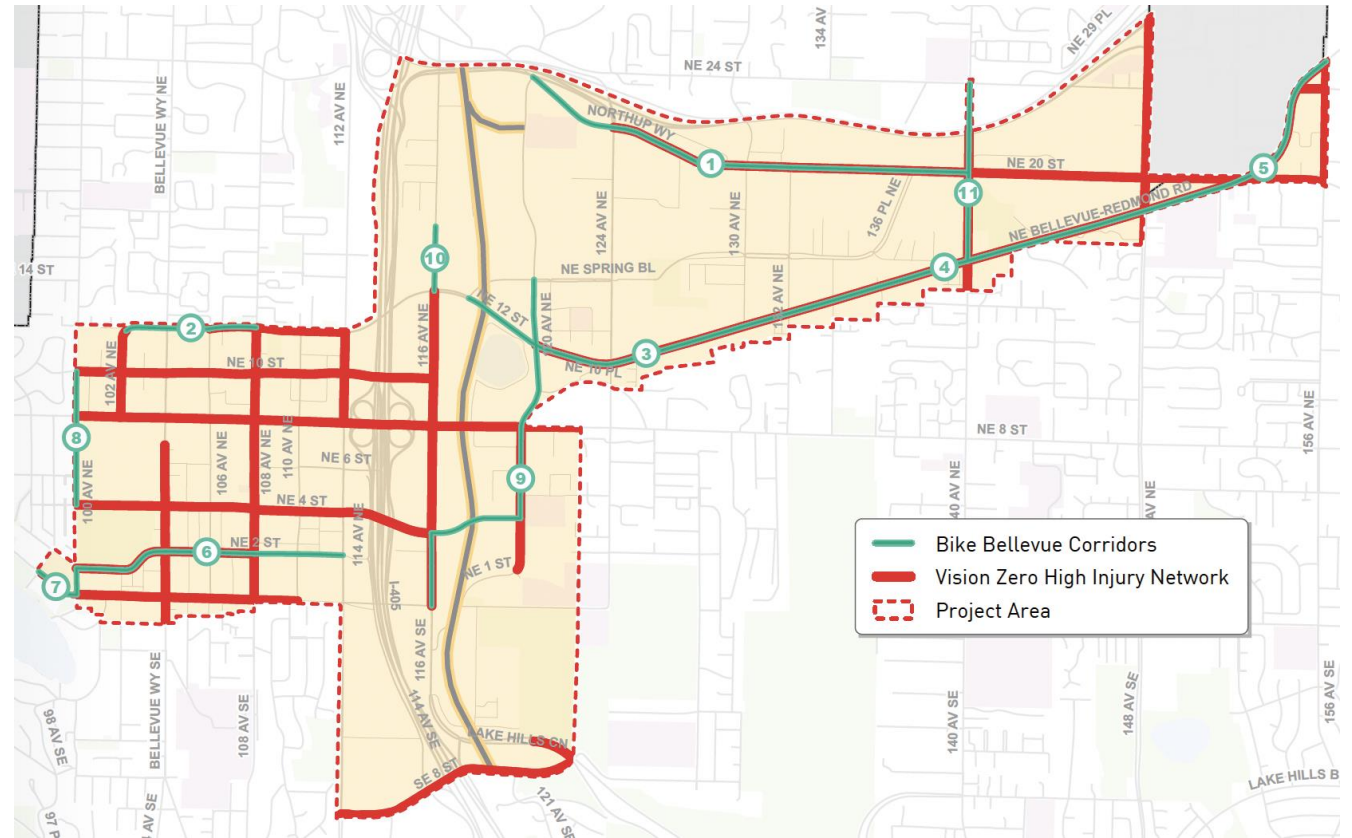


Concepts Guide



# Prioritizing Safety

- Bicyclists as vulnerable road users
- Implement proven safety countermeasures
- Aligns with Safe System approach to Vision Zero





# Bicycle LTS

All ages and abilities

Interested but concerned

Enthusiased and confident

Strong and fearless



LTS 1



LTS 2



LTS 3



LTS 4

- Designed for different bike riders
- Defined by speed, volume, and bicycle facility

| Roadway Characteristics |                         | Bicycle Facility Components:<br>Guideline to Achieve Intended Level of Service/Level of Traffic Stress |                      |                   |                                 |                                |                              |
|-------------------------|-------------------------|--|----------------------|-------------------|---------------------------------|--------------------------------|------------------------------|
| Speed Limit             | Arterial Traffic Volume | No Marking   | Sharrow Lane Marking | Striped Bike Lane | Buffered Bike Lane (Horizontal) | Protected Bike Lane (Vertical) | Physically Separated Bikeway |
| </=25                   | <3k                     | 1  | 1                    | 1                 | 1                               | 1                              | 1                            |
|                         | 3-7k                    | 3  | 3                    | 2                 | 1                               | 1                              | 1                            |
|                         | >/=7k                   | 3  | 3                    | 2                 | 2                               | 1                              | 1                            |
| 30                      | <10k                    | 3  | 3                    | 2                 | 2                               | 1                              | 1                            |
|                         | 10-25k                  | 4  | 4                    | 3                 | 3                               | 2                              | 1                            |
|                         | >/=25k                  | 4  | 4                    | 3                 | 3                               | 3                              | 1                            |
| 35                      | <25k                    | 4  | 4                    | 3                 | 3                               | 3                              | 1                            |
|                         | >/=25k                  | 4  | 4                    | 4                 | 3                               | 3                              | 1                            |
| >35                     | Any                     | 4  | 4                    | 4                 | 4                               | 3                              | 1                            |





# Bicycle LTS



Shared Lane Marking  
(Sharrows)



Conventional  
Bike Lane



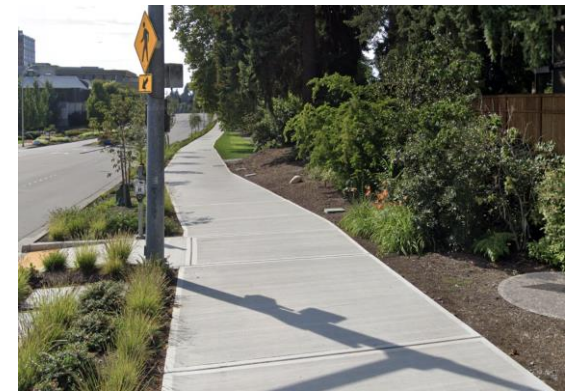
Buffered  
Bike Lane



Separated Buffered  
Bike Lane



Separated Buffered  
Bike Lane (two-way)

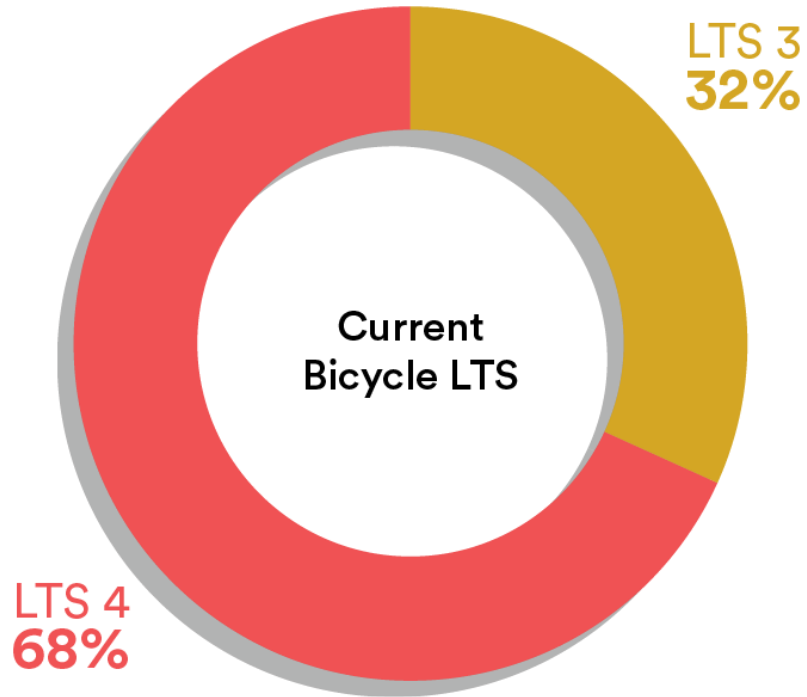


Multi-use Path

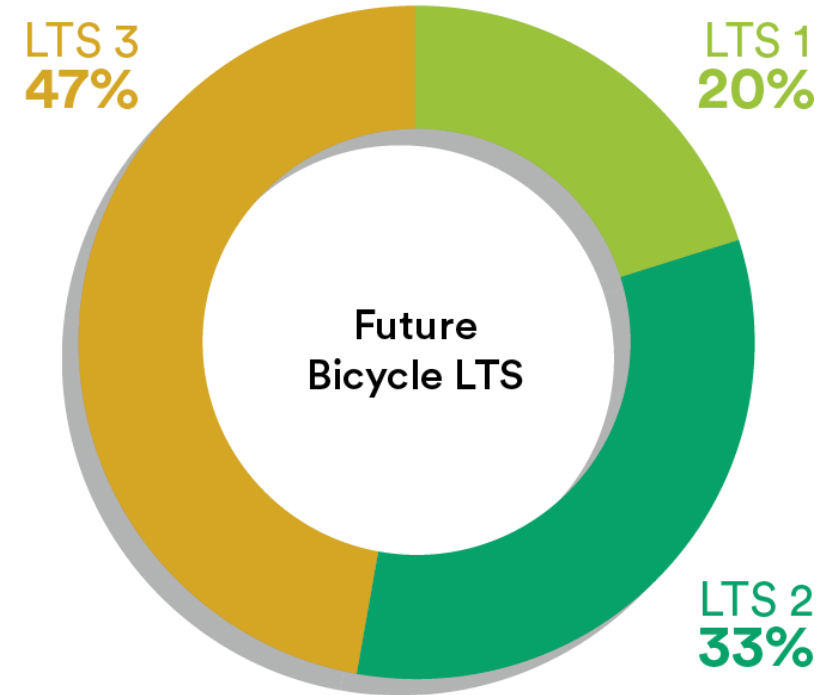


# Bicycle LTS

Today: mostly LTS 3 and LTS 4



Bike Bellevue: eliminates LTS 4 conditions

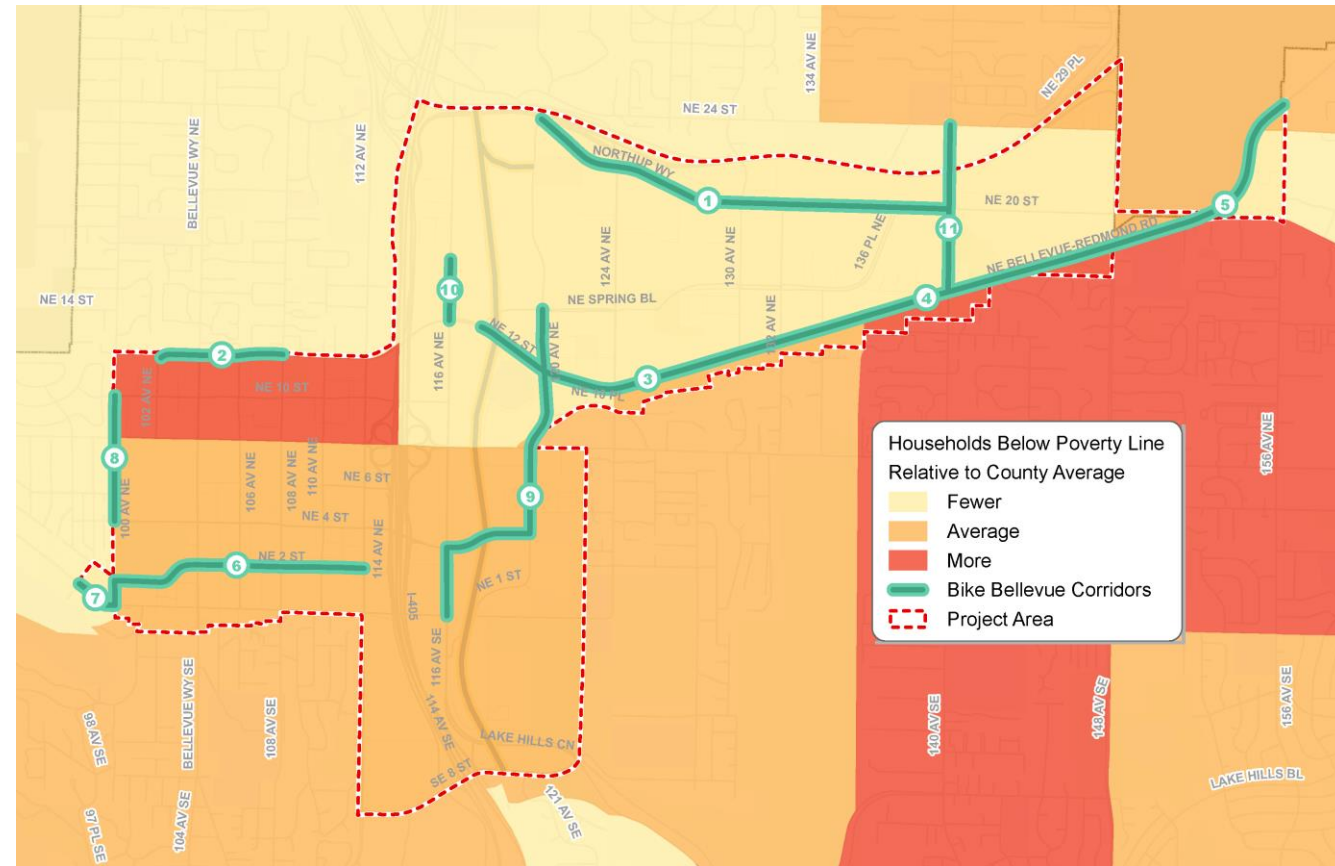


More than half of corridors would be LTS 1 or 2



# Equitable Access

- Many equity metrics; focus on low-income population
- 30% more likely to walk/bike
- 80% more likely to ride transit
- Low-stress bike access gains:
  - 24% more jobs
  - 71% more bus stop access
  - 33% more students per school





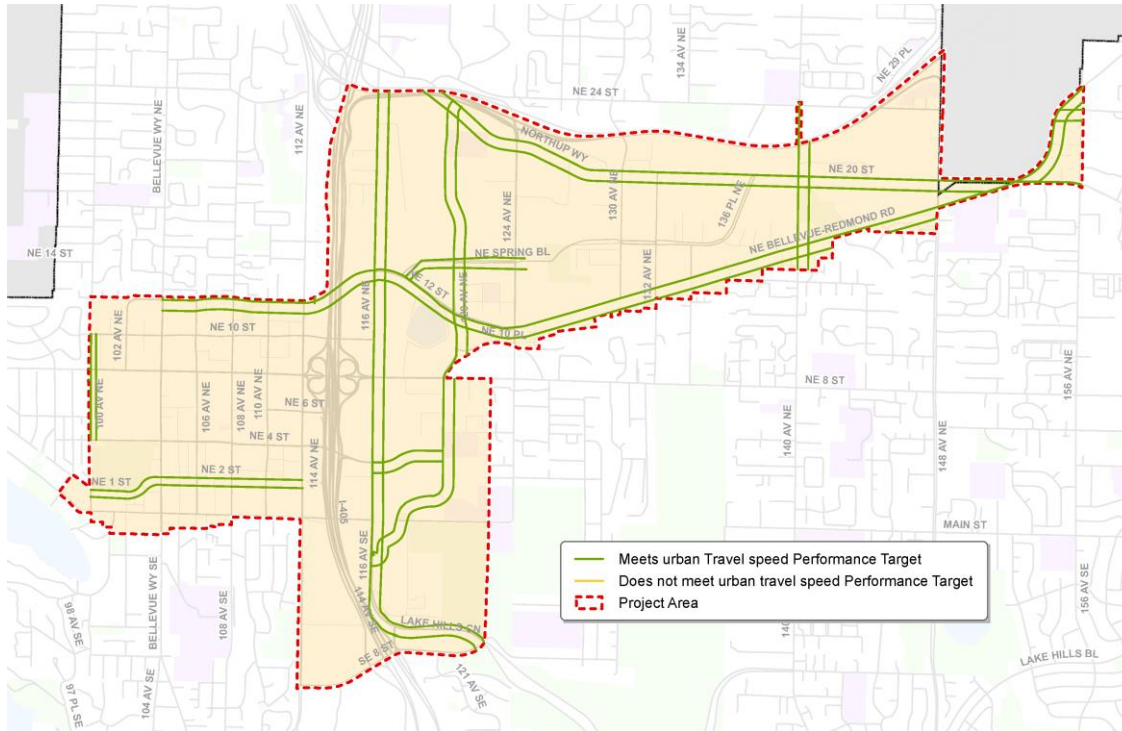
# Sustainability

- Bicycle mode share increases:
  - Today 0.8%
  - 2035 between 2.6% - 4.3%
- Reduces GHG emissions equivalent to annual emissions from 240-890 cars
- Supports Environmental Stewardship Plan

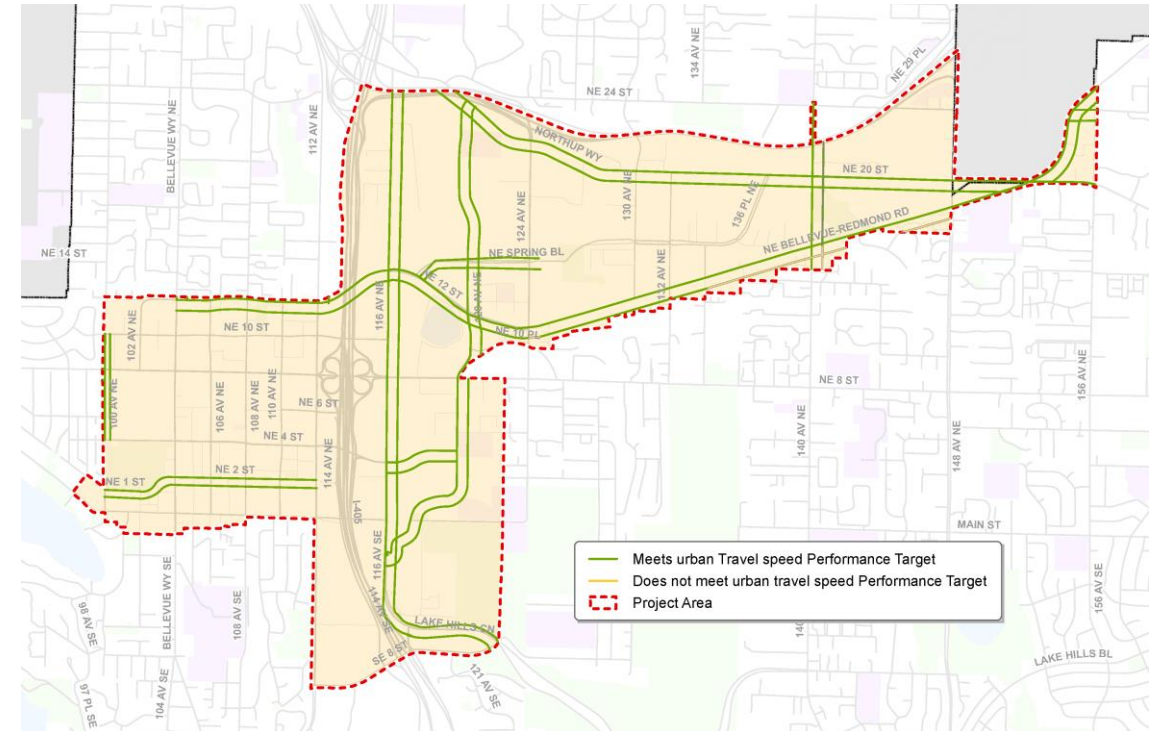




# Vehicle Performance



Existing Conditions

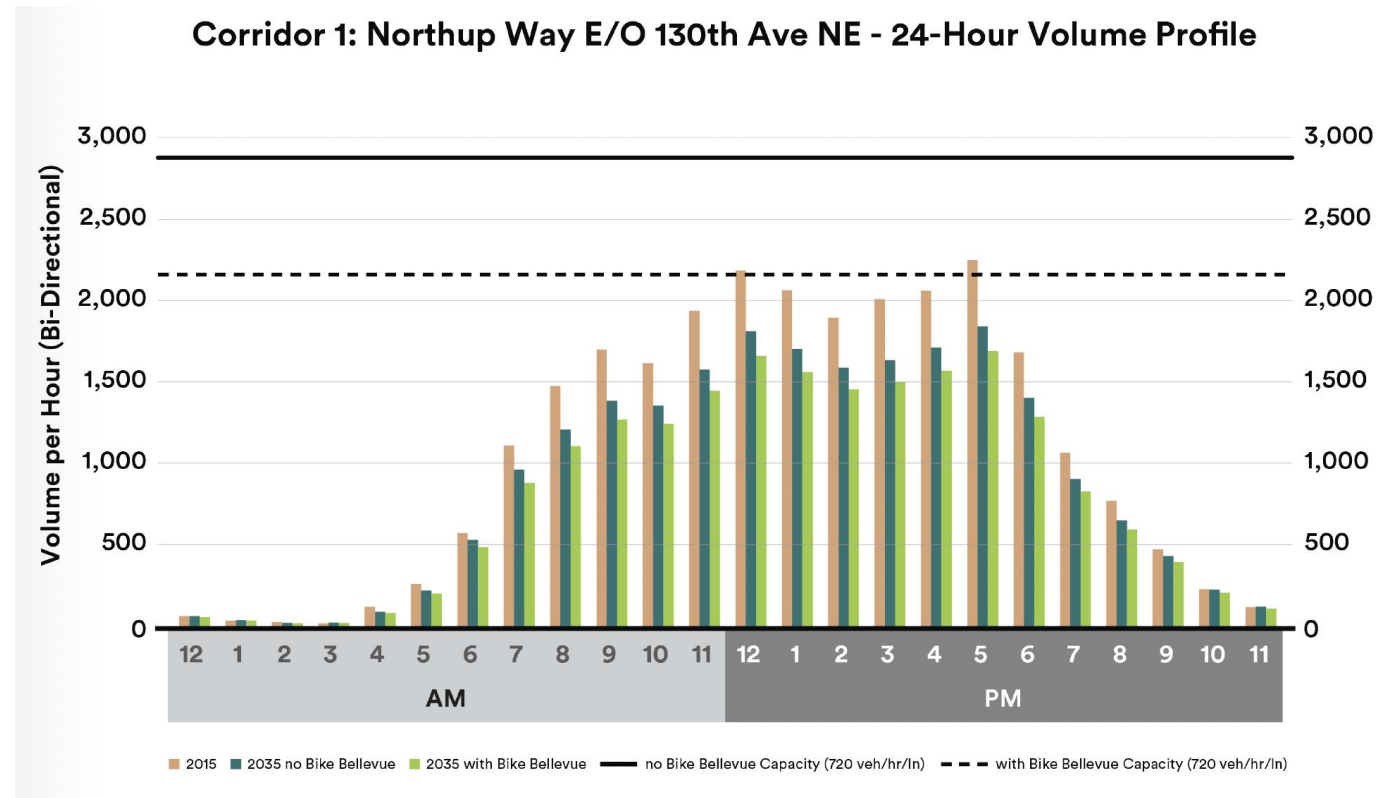


2035 with Bike Bellevue Conditions



# Roadway Capacity Utilization

- Roadway capacity underutilized
- 12-hour roadway capacity utilization: 48%
- Peak hour roadway capacity exceeded on two corridors
- Capacity can be used to improve LTS





# Key Conclusions

- Reduce 4-8 fatal/severe injury crashes over 20 years
- Eliminate LTS 4 facilities; 90% of corridors meet MIP LTS Targets
- 24% more jobs; 77% more transit stops accessible
- Increase bike mode share, reduce GHG emissions from transportation
- Vehicle corridor speeds lower by <1MPH



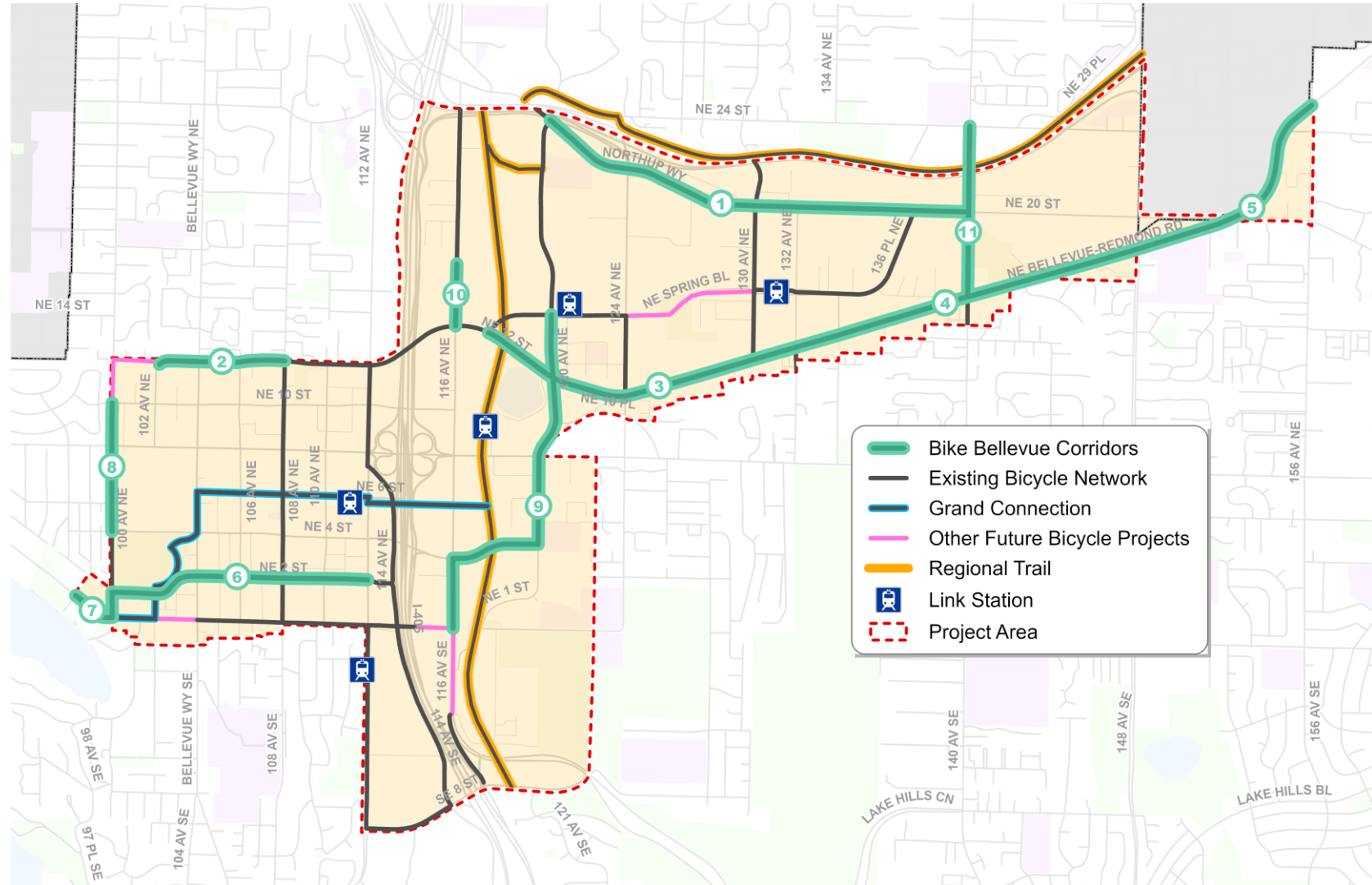
# Discussion

- Clarifying questions
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# Corridor Profiles



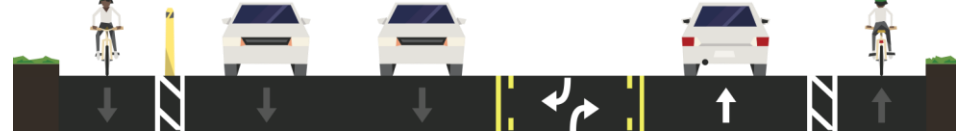


# Corridor 01: Northup Way



Existing

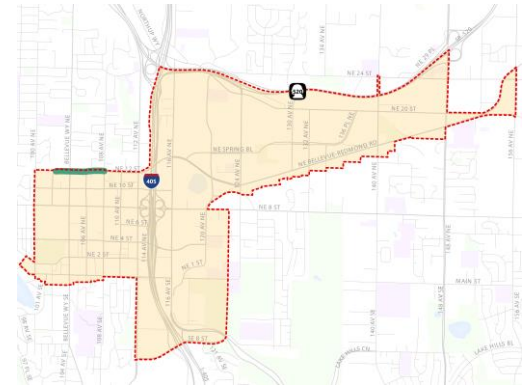
Proposed



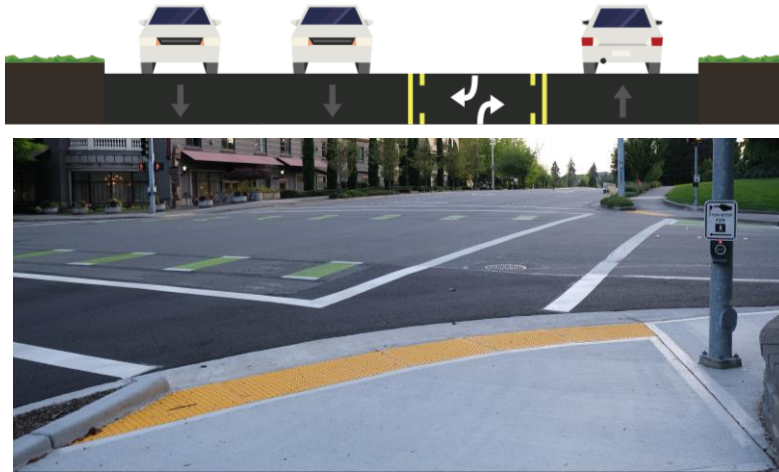
View west along NE 20th Street, east of 132nd Avenue NE



# Corridor 02: NE 12<sup>th</sup> Street



Existing



Proposed



View from NE corner of NE 12<sup>th</sup> Street and 108<sup>th</sup> Avenue NE



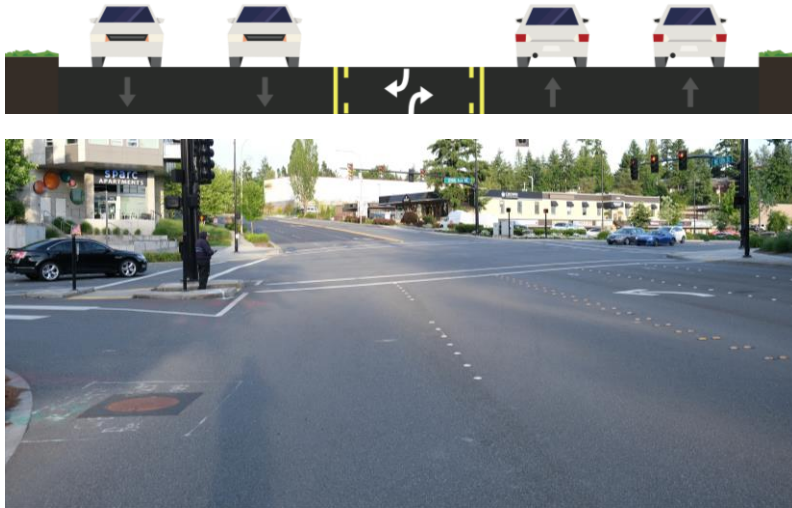
View east along NE 12<sup>th</sup> Street, east of 102<sup>nd</sup> Avenue NE



# Corridor 03: NE 12<sup>th</sup>/Bel-Red Rd



Existing



Proposed



View east along NE 12th Street, west of 120th Avenue NE



View west along Bel-Red Road, east of 124th Avenue NE

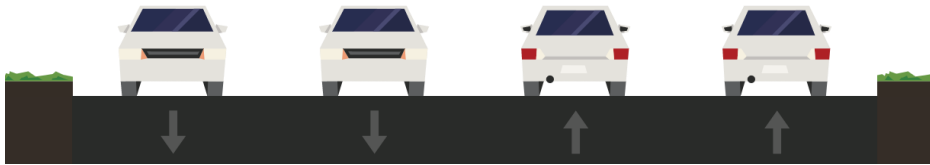


# Corridor 04: Bel-Red Rd



Existing

Proposed



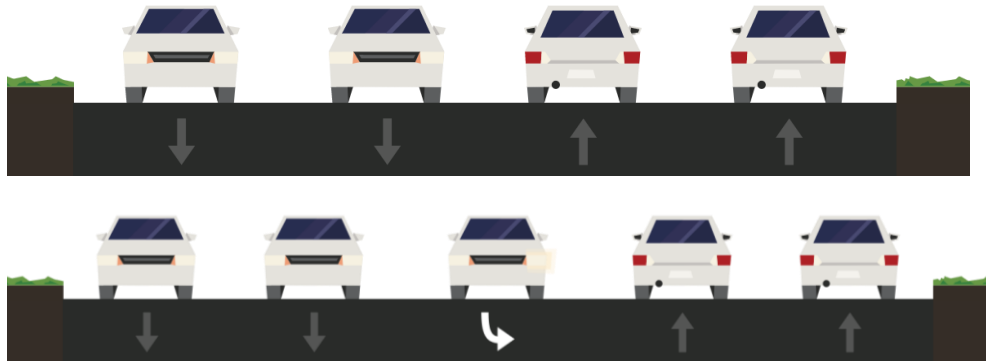
View west along Bel-Red Road, west of 130th Avenue NE



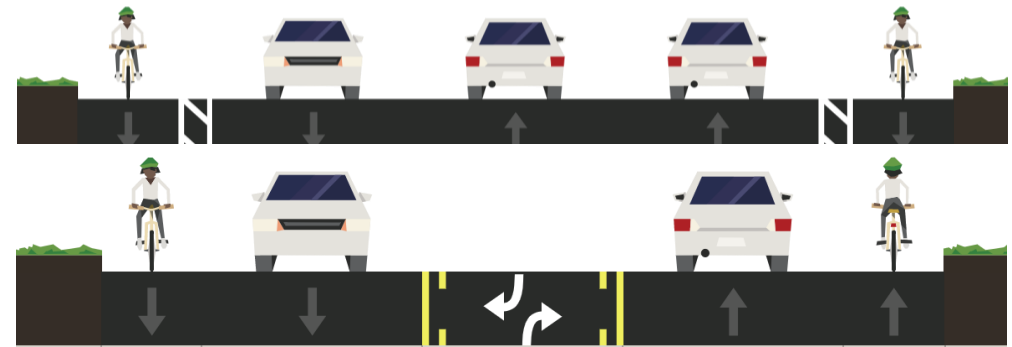
# Corridor 05: Bel-Red Rd



Existing



Proposed



View north along Bel-Red Road, north of NE 22nd Place



# Corridor 06: NE 1<sup>st</sup>/ NE 2<sup>nd</sup> St



Existing



Proposed



View from NW corner of NE 2nd Street and Bellevue Way NE



View west along NE 2nd Street, west of 105th Avenue NE



# Corridor 07: Lake WA Blvd



Existing



Proposed







# Corridor 08: 100<sup>th</sup> Ave NE



Existing



Proposed



View south along 100th Avenue NE, north of NE 8th Street



View south along 100th Avenue NE, north of NE 5th Street



# Corridor 09: Wilburton Rt.



Existing



Proposed



View west at NE 4th Street and 120th Avenue NE



View from SW corner of NE 2nd Place and 116th Avenue NE

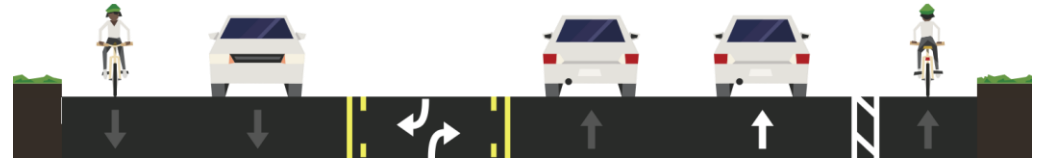
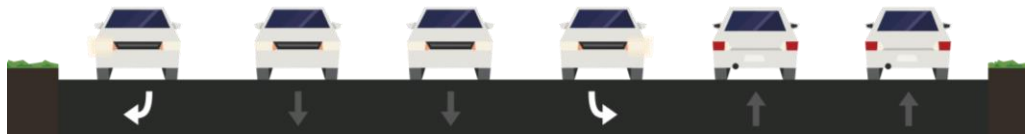


# Corridor 10: 116<sup>th</sup> Ave NE



Existing

Proposed



View south along 116th Avenue NE toward NE 12th Street



# Corridor 11: 140<sup>th</sup> Ave NE



Existing

Proposed



View from 140th Avenue NE and NE 18th Street looking south



# Discussion

- Clarifying questions
- Discussion



# Next Steps

- **October 12, 2023**

- Staff will respond to follow-up TC questions on the DRAFT Design Concepts Guide and share preliminary findings from outreach.

- **November 9, 2023**

- Staff will share with TC preliminary findings from outreach.
- Online project design tool closes November 17.

- **January 11, 2024**

- Staff will share with TC an updated DRAFT Design Concepts Guide and DRAFT Community Engagement Report.



# Information

- **Project Webpage**

<https://BellevueWA.gov/bike-bellevue>

- **Franz Loewenherz**

[Floewenherz@bellevuewa.gov](mailto:Floewenherz@bellevuewa.gov) or 425-452-4077



**Online Engagement Tool –  
Comments by November 17, 2023**

<https://bikebellevue.konveio.com/>