



BELLEVUE
**PEDESTRIAN
& BICYCLE**
IMPLEMENTATION INITIATIVE

Downtown Demonstration Bikeway Project and Citywide Bike Share Program

*Franz Loewenherz
Principal Transportation Planner*

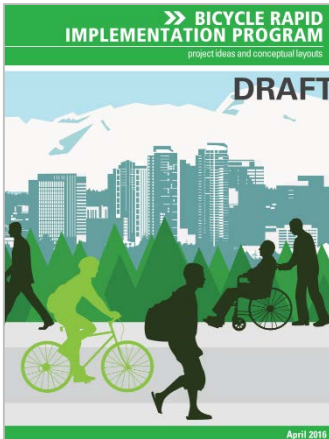
*Chris Long
Traffic Engineering Manager*

*Kevin McDonald
Principal Transportation Planner*

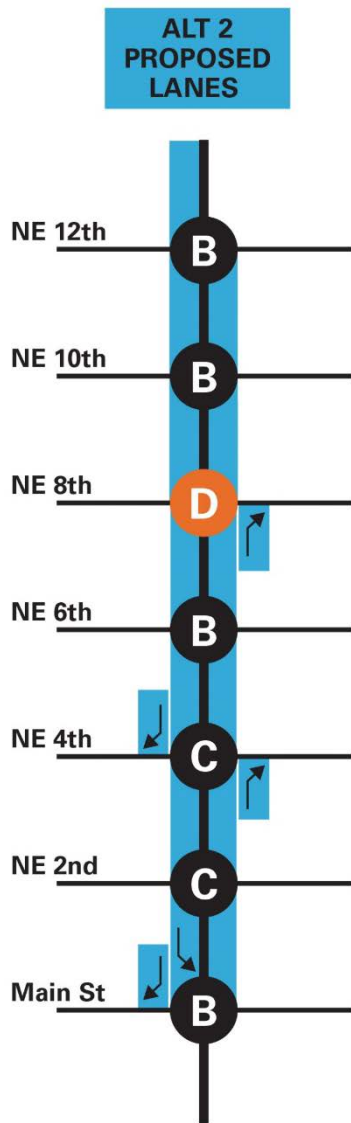
*Andreas Piller
Associate Transportation Planner*

***Transportation Commission
January 11, 2018***

- 1. Staff seeks a Commission recommendation to the Bellevue City Council on the scope and timing of implementing a Downtown demonstration bikeway project and a citywide bike share pilot program.**
- 2. In accordance with its Bylaws approved on 12/14/17, the Commission must also authorize a person to represent the transmittal of the recommendation to Council.**



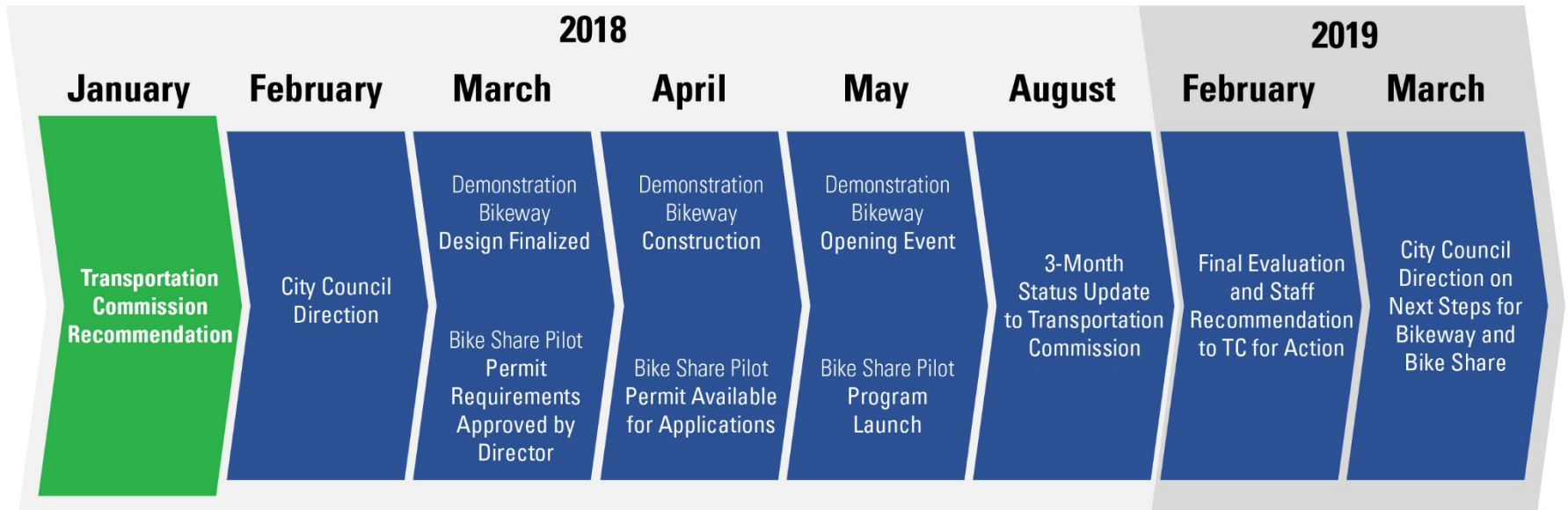
- **PBII Overview**
- **BRIP Overview**
- **2017-18 BRIP Progress Report**
- **DBRIP Levy Placeholder**
- **Downtown Outreach Process**
 - Bike Share Program
 - Demonstration Corridor



Status report on outreach:

- Briefings: BDA, Chamber of Commerce, Transit Agencies
- Online surveys: bike share program, demonstration bikeway project
- Events:
 - bike share open house (Sep. 27)
 - demo bikeway open house (Nov. 30)
 - “pop-up” events (Nov. 15, 21, 28)

Transportation modelling results for 108th Ave NE





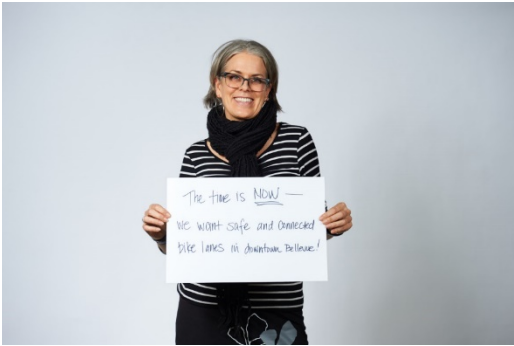
- **BDA Transportation Committee conducted an internal review, discussion, and drove consensus on a recommendation.**
- **The BDA Board of Directors concurred on a position of support for both a demo bike lane project on 108th Ave NE between Main St and NE 12th Street and permitting free-floating bike share within the City of Bellevue.**



Letters of Support

Three pop-up events were held on 11/15, 11/21, and 11/28 to solicit feedback from people who live, work or visit downtown.





On which street would you prefer to see a demonstration bikeway installed in 2018?

106th Ave NE - Main St to NE 12th St	3%	1
108th Ave NE - Main St to NE 12th St	61%	24
Main St - Bellevue Way to 112th Ave	10%	4
NE 2nd St - Bellevue Way to 112th Ave	5%	2
Some other corridor	3%	1
None of the above	5%	2
No preference/I don't know	13%	5
Total		39

	Responses	
	Percent	Count
106th Ave NE - Main St to NE 12th St	3%	1
108th Ave NE - Main St to NE 12th St	61%	24
Main St - Bellevue Way to 112th Ave	10%	4
NE 2nd St - Bellevue Way to 112th Ave	5%	2
Some other corridor	3%	1
None of the above	5%	2
No preference/I don't know	13%	5
Total		39

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

1) Love it!
 2) 108th has best connectivity to destinations
 3) Clean, make safe conflicts
 4) Facilitate left turns left from bikeway

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

Be empowered to be told! Change and progress are coming. Embrace it!

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

I chose to retire here based on enthusiasm for biking expressed in the 2009 aspiration. I am frustrated in the progress to date. I will have to retire my bike for the time we are not done the demo! Please! Make a decision, not a demo! Help me get out of downtown safely.

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

It would be great if you could do 108th and small segment on Main to connect to new bike lane on Main. Like a reverse 'L' for 2018 demonstration bikeway!

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

I'd love to see Bellevue spend a tenth of their transportation resources & public Rev on pedestrians/cyclists
 Bicyclists refer to downtown Bellevue as "the death zone"

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

DOWNTOWN DEMONSTRATION BIKEWAY OPEN HOUSE

Tell us what you think:

On which street would you prefer to see a demonstration bikeway installed in 2018? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

If funding is available to install improvements along a second corridor in 2018, which should it be? (select only one)

106th Ave NE 108th Ave NE Main St NE 2nd St None

Do you have any comments or concerns you would like to share about the potential Downtown demonstration bikeway project?

No major concern. Need to keep cyclists safe/separated from traffic.

Please leave completed comment cards at the welcome table on your way out. **Thank you!**

On which street would you prefer to see a demonstration bikeway installed in 2018?	First Choice		Second Choice	
	Percent	Count	Percent	Count
106th Ave NE - Main St to NE 12th St	6%	2	8%	3
108th Ave NE - Main St to NE 12th St	69%	25	11%	4
Main St - Bellevue Way to 112th Ave	14%	5	36%	13
NE 2nd St - Bellevue Way to 112th Ave	3%	1	31%	11
None of the above	0%	0	3%	1
All Four Candidates	3%	1	3%	1
No Response	6%	2	8%	3
Total		36		36



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Bikeway Open House (11/30/17)



The Transportation Department is working to make Downtown Bellevue a safe and comfortable place for people to bike. The City Council envisions a well-connected network of bicycle facilities in Bellevue that enhance livability, support economic vitality, and serve the mobility needs of people of all ages and abilities. Investments in bicycle facilities will help make Downtown a more attractive and accessible place for people to live, work, and visit.

With this vision in mind, we are exploring the possibility of installing the first high-comfort bikeway in Downtown as a pilot project in 2018. Using flexible and low-cost treatments, this demonstration would provide a real-world opportunity to evaluate how the latest bikeway design concepts function in Bellevue. Four streets are candidates for the pilot project: 108th Ave NE, 106th Ave NE, Main St, and NE 2nd St.

We want your help to select the preferred street and develop a design that balances community priorities. Each candidate bikeway project offers its own set of benefits and challenges. We recognize that introducing a new bicycle facility on any of the candidate streets will involve tradeoffs.

The demonstration is expected to be in place for several months or more, from mid-2018 through at least December. A before-and-after study will be done to assess how the project affects travel for all road users. Outcomes will be monitored and adjustments could be made after installation as needed to improve operations. The pilot project will ultimately help inform how to invest in a network of downtown bicycle improvements in the future.

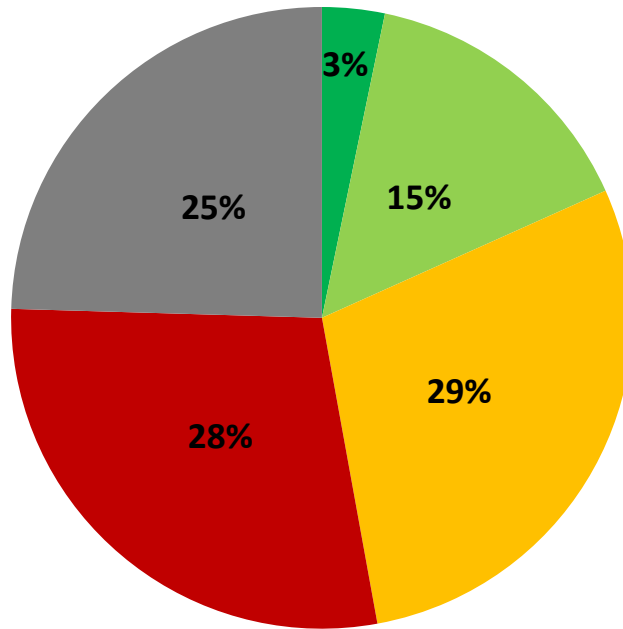
This survey should take about 10 minutes to complete. If you are interested in learning more about individual project concepts, you can choose to answer additional questions that should take about 10 additional minutes to complete.

Click “Next” below to get started! For more information about the potential demonstration bikeway project, visit the [Downtown Demonstration Bikeway webpage](#). 

Next



With current conditions, how safe do you feel riding a bicycle in Downtown Bellevue?

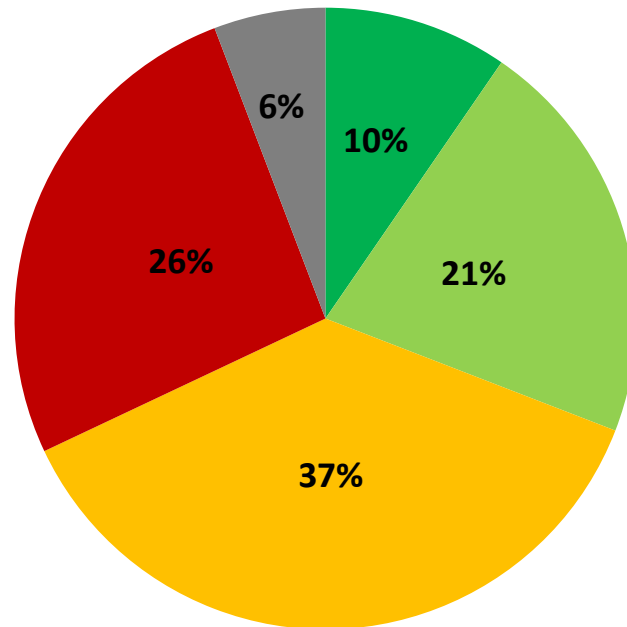


- Very safe
- Somewhat safe
- Somewhat unsafe
- Very unsafe
- I do not bicycle in Downtown Bellevue

n=1,137



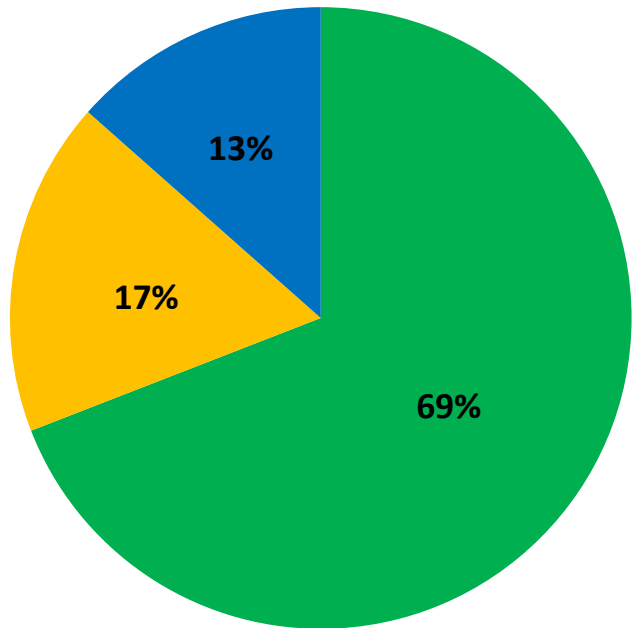
With current conditions, how comfortable do you feel driving next to people bicycling in Downtown Bellevue?



- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable
- I do not drive in Downtown Bellevue

n=1,137

Where do you think that people bicycling in Downtown Bellevue should ride?

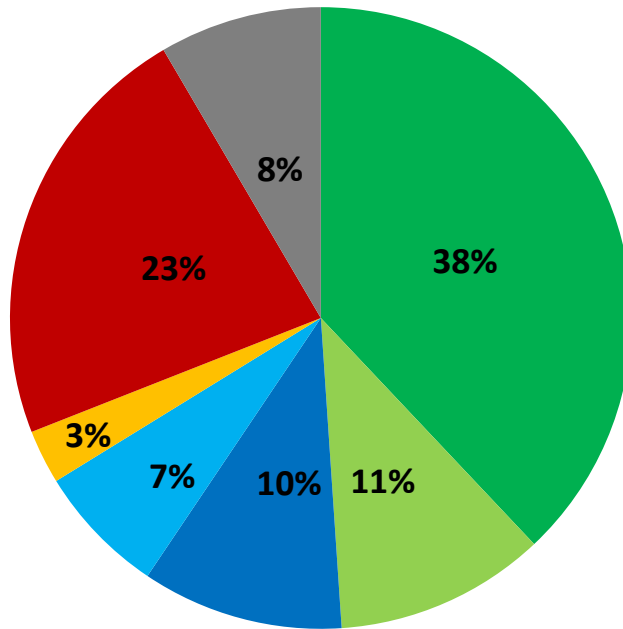


- On-street in a designated bike lane
- On-street in travel lanes shared with motor vehicles
- On the sidewalk sharing space with people walking

n=1,084

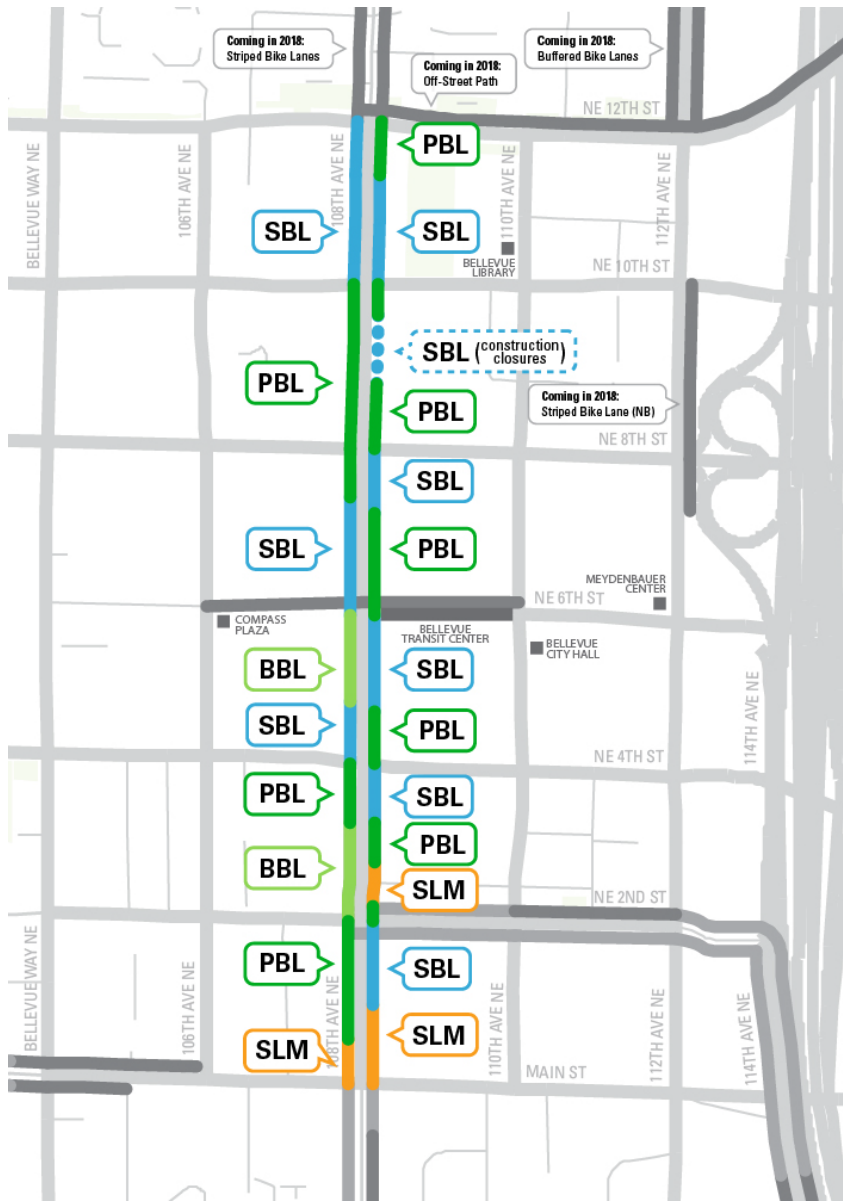


On which street would you prefer to see a demonstration bikeway installed in 2018?



- 108th Ave NE – Main St to NE 12th St
- 106th Ave NE – Main St to NE 12th St
- Main St – Bellevue Way to 112th Ave
- NE 2nd St – Bellevue Way to 112th Ave
- Some Other Corridor
- None of the Above
- No Preference / I don't know

n=1,030



At NE 6th St (Bellevue Transit Center)



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108th Ave NE | Concept



Level-of-Service in Bellevue

Toward a Multimodal Approach to Mobility

Project Context

Mode	Land Use Context		
	Greater Modal Priority → Less Modal Priority		
Vehicle	Rest of City	Crossroads, Eastgate, Wilburton	BelRed, Northup, Downtown , and Factoria
Pedestrian	Downtown/ Activity Center	Neighborhood Shopping Center	Pedestrian Destination/Rest of City
Bicycle	Priority Corridor	On Network	Not on Network/Exempt
Transit	RapidRide/ Light Rail	Frequent Service	Local



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108th Ave NE | MMLOS



Level-of-Service in Bellevue

Toward a Multimodal Approach to Mobility

MMLOS Tradeoffs

Mode LOS To Be Improved	Project	Auto-Intersection V/C	Auto-Corridor Speed	Ped-Sidewalk Width	Ped-Crosswalks Crossing type and spacing	Bicycle Corridor and intersection	Transit Stop Passenger amenities	Transit FTN Speed*	ROW/ Land Use
Bicycle	Add various bike facilities Main St – NE 12 th St.	-	-	+		++		-	

*Transit Speed applicable only to Frequent Transit Network corridors (RapidRide B, 234/235, 271, 550)



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108th Ave NE | MMLOS



Level-of-Service in Bellevue

Toward a Multimodal Approach to Mobility

Existing Conditions

- 30 MPH
- 7,000 to 12,000 ADT
- LTS=3 due to low traffic volumes and 30 mph speed limit
 - Exception is LTS=2 NB from half block south of NE 4th due to Bike Lane



Outside Lines – Facility Type

- Sharrow
- Bike Lane
- Buffered Bike Lane

Inside Lines – LTS

- LTS 1
- LTS 2
- LTS 3
- LTS 4



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108th Ave NE | MMLoS

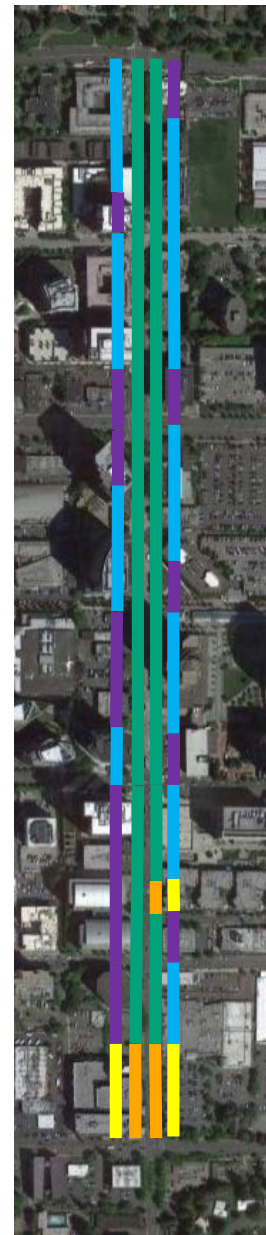


Level-of-Service in Bellevue

Toward a Multimodal Approach to Mobility

Bikeway Improvements & LOS

- Adding sharrows, bike lanes, and buffered bike lanes
- LTS=3 in sharrow areas near Main Street
- LTS=2 in bike lane and buffered bike lanes



Outside Lines – Facility Type

- Yellow line: Sharrow
- Cyan line: Bike Lane
- Purple line: Buffered Bike Lane

Inside Lines – LTS

- Light green line: LTS 1
- Green line: LTS 2
- Orange line: LTS 3
- Red line: LTS 4



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108th Ave NE | MMLoS



Level-of-Service in Bellevue

Toward a Multimodal Approach to Mobility

Intersection Treatments & LOS

- Main, 2nd, 4th, 8th, 10th, and 12th have skip striping through intersection
- 6th is not an arterial



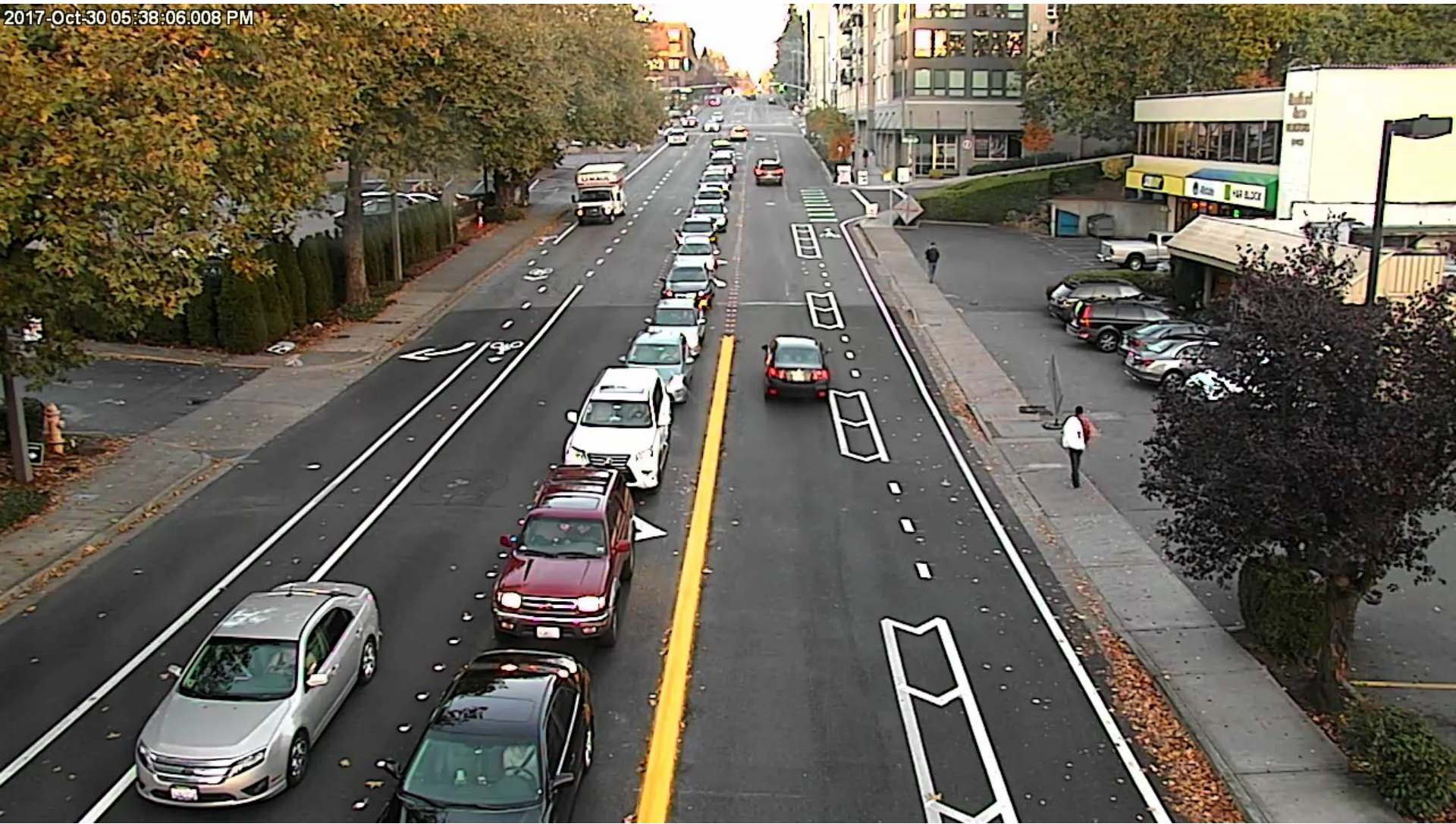
Lines/Squares – LTS

- LTS 1
- LTS 2
- LTS 3
- LTS 4



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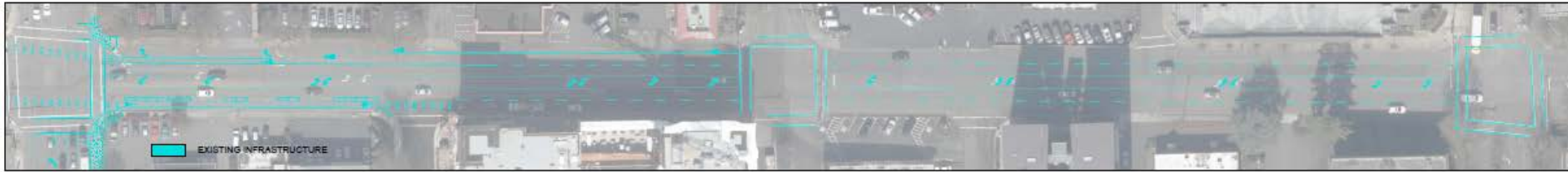
108th Ave NE | MMLoS



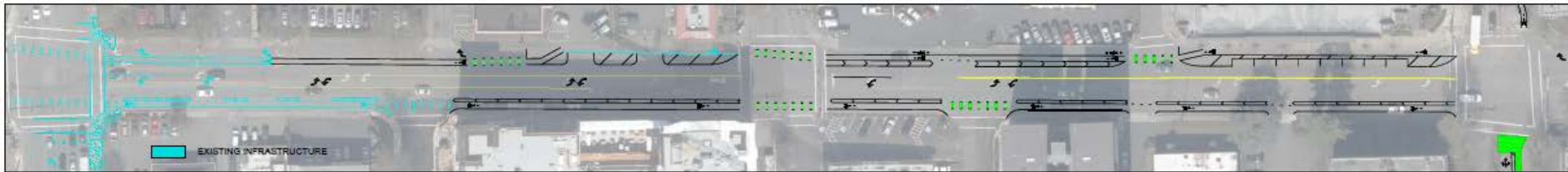
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Main St

Existing conditions



Alternative 1: Extend eastbound buffered bike lane from 105th to 108th, drop westbound curb lane at 108th and construct westbound buffered bike lane from 108th to the existing bike facility at Bellevue Way. Option for parking protection is shown between 107th and 108th, street-grade walkway is shown between 106th and 107th to fill a gap in the pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.



Alternative 2: Extend eastbound buffered bike lane from 105th to 108th. Install standard bike lane between 108th – keep 2 westbound lanes, no pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.



Existing conditions



Alternative 1: Extend eastbound buffered bike lane from 105th to 108th, drop westbound curb lane at 108th and construct westbound buffered bike lane from 108th to the existing bike facility at Bellevue Way. Option for parking protection is shown between 107th and 108th, street-grade walkway is shown between 106th and 107th to fill a gap in the pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.



Alternative 2: Extend eastbound buffered bike lane from 105th to 108th. Install standard bike lane between 108th – keep 2 westbound lanes, no pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.



Existing conditions

WB travel time: 1.9 minutes

EB travel time: 2.1 minutes

Alternative 1: Extend eastbound buffered bike lane from 105th to 108th, drop westbound curb lane at 108th and construct westbound buffered bike lane from 108th to the existing bike facility at Bellevue Way. Option for parking protection is shown between 107th and 108th, street-grade walkway is shown between 106th and 107th to fill a gap in the pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.

WB travel time: 3.5 minutes

EB travel time: 2.8 minutes

Alternative 2: Extend eastbound buffered bike lane from 105th to 108th. Install standard bike lane between 108th – keep 2 westbound lanes, no pedestrian facility. Construct bike box NB @ 108th to facilitate bike turning at 108th/Main.

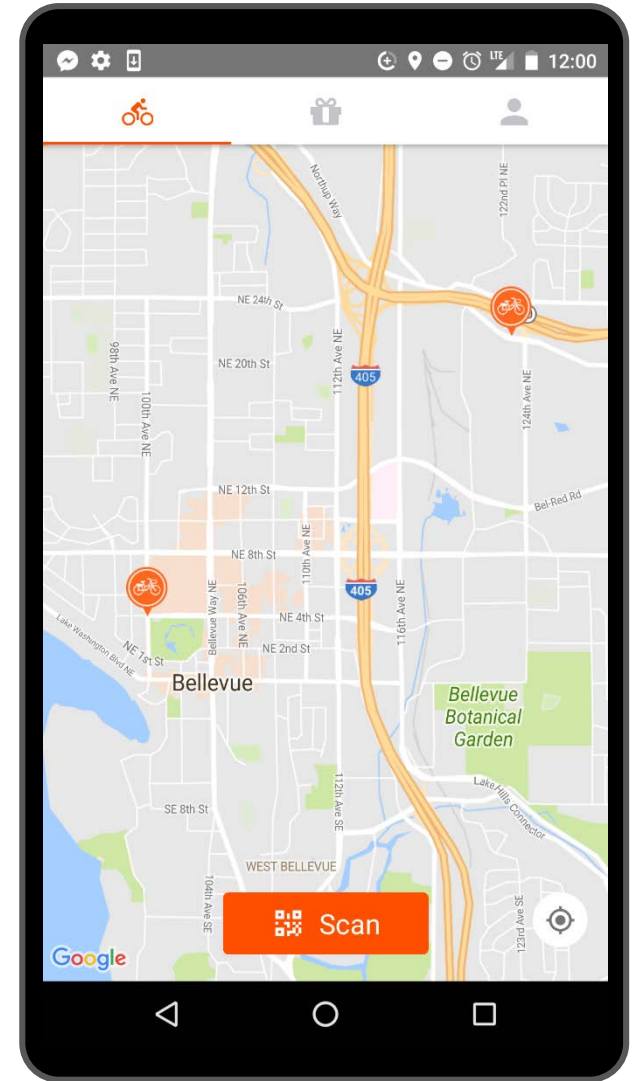
WB travel time: 2.0 minutes

EB travel time: 2.3 minutes





- Draft recommendation is to implement “high-comfort” demonstration bikeway on 108th Ave NE
- Revisions/additions?
- The design discussed is in progress and subject to change as engineering work is completed.





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Eastside Bike Share Fair (9/27/17)



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Bicycling and Bike Share in Bellevue

9. If a bike share service was available in Bellevue today, would you use bike share in Bellevue?

- Yes, I would use bike share in Bellevue
- No, I would not use bike share
- I don't know

Please explain why or why not.

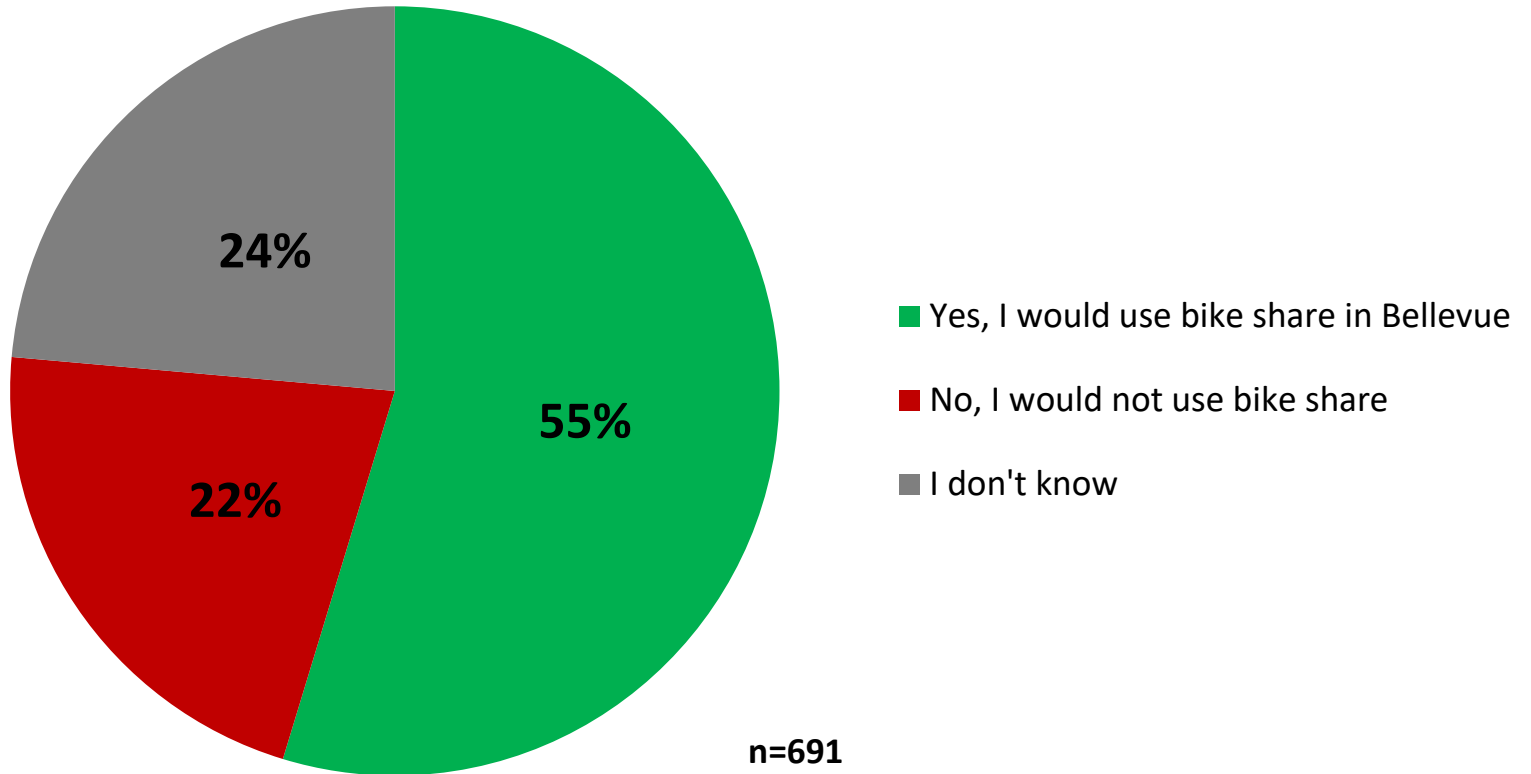
10. If a bike share service was available in Bellevue today, in which parts of the city would you use bike share?

- Downtown Bellevue



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If a bike share service was available in Bellevue today, would you use bike share in Bellevue?



Do you have any comments or concerns you would like to share about the possibility of bike share coming to Bellevue?

Response Themes	Count
Generally Positive	91
Install More Bike Lanes (Any Type)	82
Improve Safety (General)	77
Biking in Bellevue is Dangerous (General)	54
Install Separated Bike Lanes	53
No City Funding of Bike Share	44
Bike Clutter	36
Drivers Are Dangerous/Aggressive	35
Improve Infrastructure First	30
Pedestrian Safety from Bikes on Sidewalks	24
Helmet Use / Helmet Law	24
Improve Sidewalks/Crosswalks	24

n=465

“I think it would be awesome! There are so many times that I want to run an errand in downtown Bellevue that is slightly too far for me to walk, but it's a pain to use my car all the time. It would be easier if there was a bike option.”

“Please make it happen! With all the congestion and lack of parking, a bike share system would be such an awesome alternative for getting around. I would shop and go out to eat in downtown Bellevue more often if I could bike instead of drive.”

“Bike share in Bellevue would be great. Then I could bus from Seattle and ride a bike to work from the transit center instead of having three bus transfers.”

Do you have any comments or concerns you would like to share about the possibility of bike share coming to Bellevue?

Response Themes	Count
Generally Positive	91
Install More Bike Lanes (Any Type)	82
Improve Safety (General)	77
Biking in Bellevue is Dangerous (General)	54
Install Separated Bike Lanes	53
No City Funding of Bike Share	44
Bike Clutter	36
Drivers Are Dangerous/Aggressive	35
Improve Infrastructure First	30
Pedestrian Safety from Bikes on Sidewalks	24
Helmet Use / Helmet Law	24
Improve Sidewalks/Crosswalks	24

n=465

“My only concern is based on my experience with the bike shares in Seattle, which is that people leave the bikes anywhere. It results in a lot of clutter and blocking of sidewalks and bike paths.”

“I would love to see bike share in Bellevue—but I think it's feasibility is limited until a real connected network of bike routes exists in downtown Bellevue.”

“I think Bellevue has the opportunity to beat Seattle to having a connected network of protected bike lanes, and this could have profound positive impacts on public health, livability, and desirability, even for those who currently do not bike. If you build it, they will come!”





Bike Share Permit Goals and Requirements:

- Pilot
- Safety
- Parking
- Operations
- Data
- Enforcement
- Fees





- Draft recommendation is to implement a pilot permit valid for up to one year
- Compliance with requirements will be monitored and enforced
- Data will be collected from operators and via community engagement, informing evaluation



Transportation Commission

TRANSMITTAL

January 16, 2018

The Honorable Mayor John Stokes
Members of the Bellevue City Council
450 110th Avenue NE
Bellevue, WA 98004

RE: **Commission Recommendation – Downtown Demonstration Bikeway Project and Citywide Bike Share Pilot Program**

Dear Mayor Stokes and City Councilmembers:

At its January 11, 2018 meeting, the Transportation Commission voted unanimously in favor of recommending that the City Council direct staff to proceed with implementing a Downtown demonstration bikeway project and establishing a pilot permit for private bike share services to operate within the City of Bellevue. This recommendation is informed by a targeted engagement of Downtown stakeholder groups and the broader community. Reflected in this next section are suggestions on scope and timing:

- **Downtown Demonstration Bikeway Project** – Using temporary and low-cost treatments, this project will implement improvements to create a “high-comfort” bikeway along one corridor in Downtown. Of the four candidate corridors considered, it is recommended that the project be implemented along 108th Ave NE from Main St to NE 12th St (see Attachment 1), which is identified as a north-south priority bicycle corridor and provides connections to regional bicycle routes.
- **Citywide Bike Share Pilot Program** – This will create a permit that establishes a legal framework for private companies to operate bike share services in Bellevue as a pilot program for a period of up to one year. Compliance with permit terms will be monitored and enforced as warranted. Data will be collected from bike share operators and via community engagement, which will inform evaluation of the program.

In support of these projects it is recommended that staff commence work on:

- Design and permitting with a target implementation date of May 2018 (which corresponds with Bike to Work Month);
- Developing a scope of work to assess outcomes for all street users, including people bicycling, walking, driving, using transit, and transporting goods, based on data and community engagement;
- Coordinating with private and non-profit organizations to support the launch and test period of the Downtown demonstration bikeway project with education and encouragement activities.

The data collection period informing the evaluation of both the demonstration bikeway project and bike share pilot program will last through December 2018. Modest operational refinements may be made to the demonstration bikeway during this period as required to maintain safety for all street users. Staff will share the results of the evaluation with the Transportation Commission in early 2019 to inform their consideration of next steps—that is, whether and how to make the bikeway project and the bike share program permanent.

Transportation Commission members are honored by your trust and confidence in selecting us to oversee the Pedestrian and Bicycle Implementation Initiative (PBII). In this capacity, we have been guided by Council’s program principles as we collaborate with staff and the community to advance the PBII scope of work, including its commitments to the projects identified in this recommendation.

Sincerely,

Vic Bishop
Chair, Transportation Commission

Attachment A – Project Description and Map [Will be emailed in advance and copied in your desk packet]

DRAFT

Will Commission make a recommendation to Council regarding the Downtown demonstration bikeway project and/or the citywide bike share pilot program?

- **Yes** – Commission will make a recommendation on one or both items. (Motion required)
 - Motions may subsequently be made to amend the draft transmittal letter prior to the vote to approve the letter.
- **No** – A transmittal letter with recommendations will not be approved at this time.

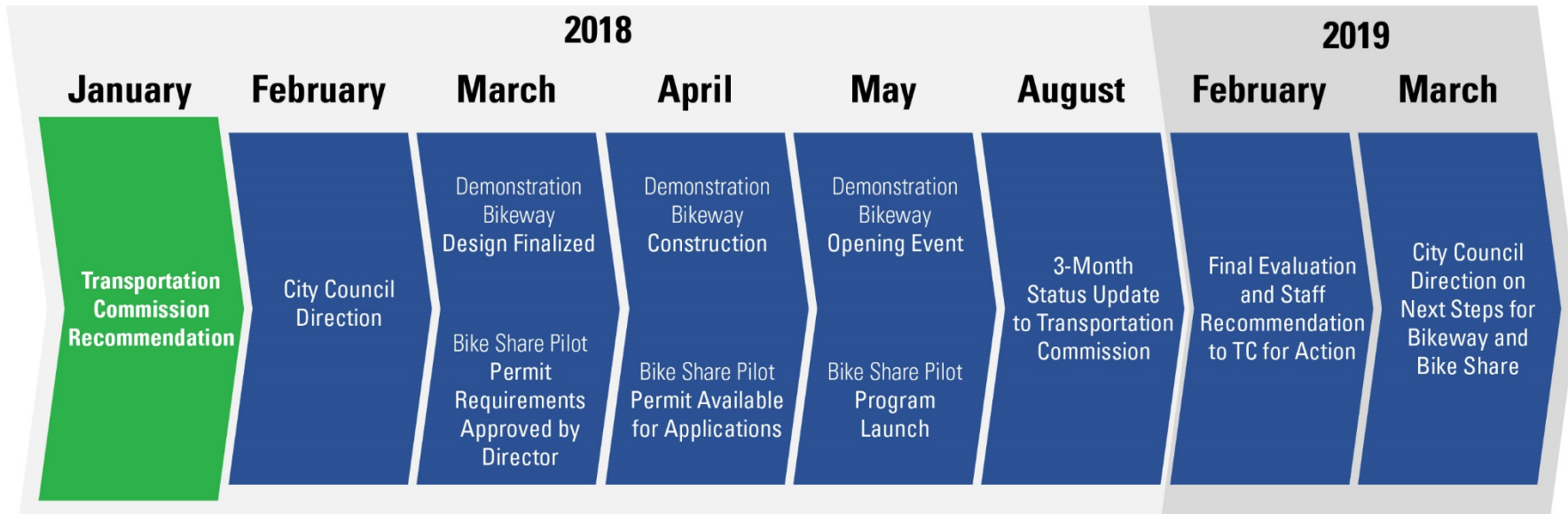


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TC Recommendation | Letter

In accordance with its Bylaws approved on 12/14/17, the Commission must also authorize a person to represent the transmittal of the recommendation to Council.







Franz Loewenherz

Transportation Department

floewenherz@bellevuewa.gov

425-452-4077



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For More Information