

IBR CAG COMMENTS 2/23/2021

Sam Churchill

2/10/21

Here is a I-5 Bridge Vision from the people who live under the bridge.

<http://www.hayden-island.com/wp-content/uploads/2021/02/Greetings-from-Hayden-Island.pdf>

<https://docs.google.com/presentation/d/e/2PACX-1vSJmXazXjHW-QQcEy0Gd3pwOl1rWTHbDTGJ-lgOGEkXugzY6iath2HqLmkb1pe1C2wqURcAUjNXJJlx/pub?start=true&loop=false&delayms=7000>

***Attachments from external sources can be made ADA compliant upon request.**

Bob Ortblad

2/11/21

CAG Public Comment

An Immersed Tube Tunnel would have a much lower environmental impact on Hayden Island, Vancouver, and the Columbia River than a new High-Level Bridge.

The Columbia River Crossing bridge design is a 1950's elevated freeway design that would blanket both Hayden Island and Vancouver in concrete. (See attachment #1 & 2)

Gothenburg, Sweden is the largest port in Scandinavia and the World's Most Sustainable City. It is famous for its municipal innovation. Last month the city opened its second immersed tube tunnel. The Marieholm and the Tingstad tunnels can carry a total of 180,000 vehicles/day with little impact on the river and its riverbanks. (See attachment #3)

Attachment #4 has links to YouTube videos about Gothenburg's newest immersed tube tunnel and several similar tunnels.

Respectfully

Bob Ortblad MSCE, MBA

***attachment available upon request**

February 9, 2021



Todd Bachmann

2/17/21

Hello, are there any members in the Community Advisory Group that come from the bicycling community? Someone that has worked to encourage multi-modal safe transit in our community streets? Someone with the proper background to advocate for multimodal access across the replace bridge? As you graciously emphasize inclusion for this bridge replacement project, it seems that this important element needs to have a seat at the table.

Sincerely,
Todd Bachmann

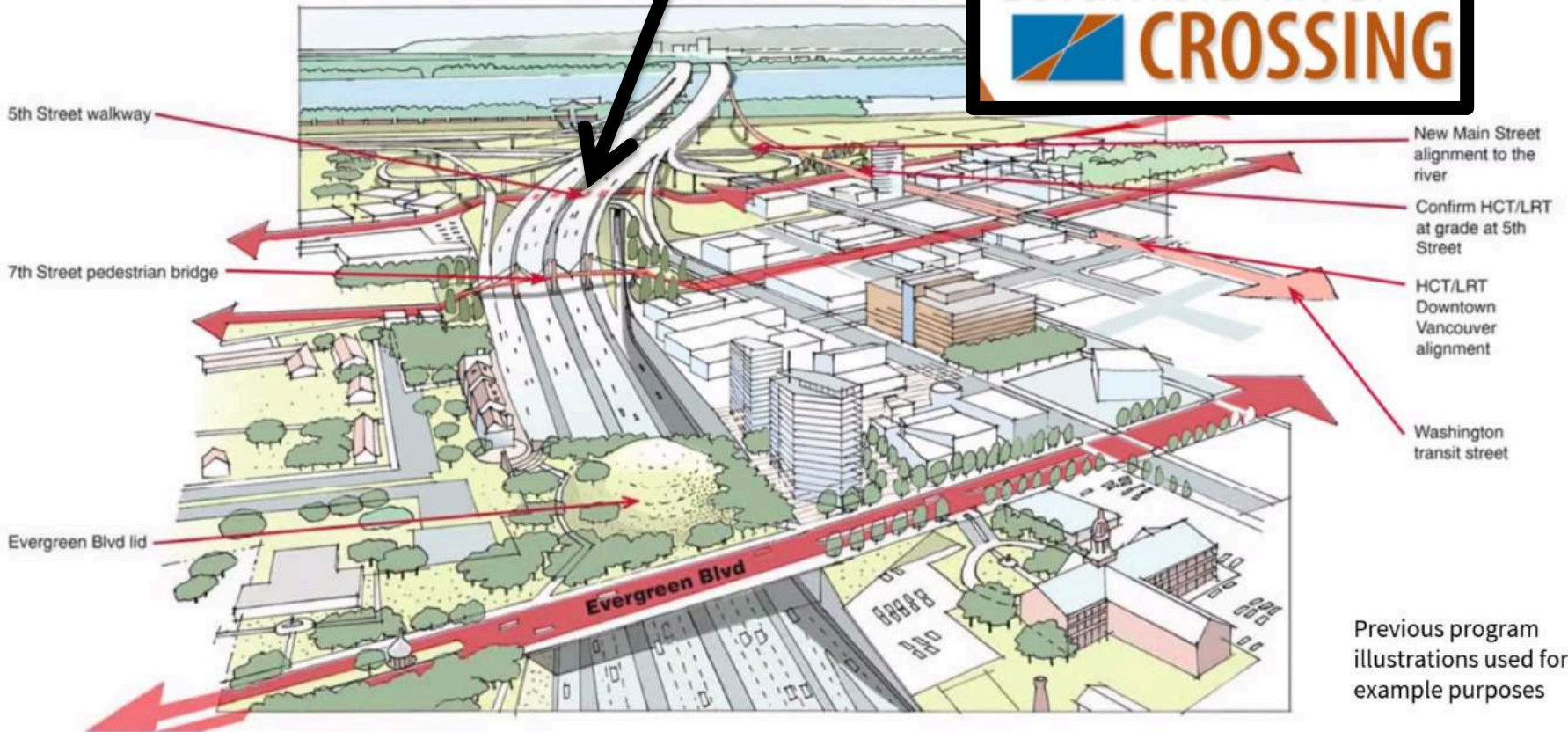
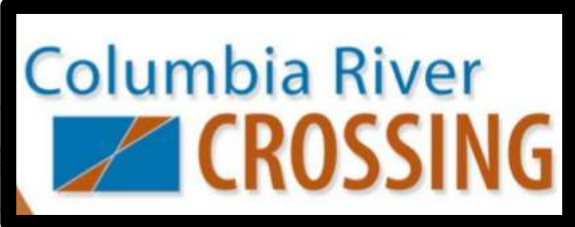
Debbie Tomasovic

2/17/21

As you all begin discussing the future redevelopment of the I-5 bridge, it will be important for the planning to be strongly guided by Washington State's climate action plan. Transportation produces a huge percentage of the carbon emissions that are harming the health of the planet. Being climate conscious as you plan the needs of this bridge will be critical. More space for pedestrians, bicyclists and rail passengers with more space for single driver gas engine vehicles is just a start.

Thank you for keeping our climate action plan in mind, as all of our lives depend upon it,
Debbie Tomasovic

1950's Elevated Freeway design



Previous program illustrations used for example purposes



Environmental Impact of CRC Bridge design



The Marieholm tunnel 2020

55,000 /day

Gothenburg, Sweden

Tingstad tunnel 1968

125,000 /day



Trelleborg - How to build an immersed tunnel
<https://www.youtube.com/watch?v=2Xkyyc9PIQA>

Trip through Tingstad Tunnel, Gothenburg
<https://www.youtube.com/watch?v=KoEBbmeecd88>

Trip through Marieholm Tunnel before its Dec. 16 opening, Gothenburg
<https://www.youtube.com/watch?v=BT9s2Pf9Wms&feature=youtu.be>

Construction of the Marieholm Tunnel, Gothenburg
<https://www.youtube.com/watch?v=2kcAIBFCz8w&feature=youtu.be>

Launch of the Marieholm Tunnel elements, Gothenburg
<https://www.youtube.com/watch?v=JC4mRlgwXUO>

Elizabeth River Tunnel, Norfolk, VA.
<https://www.youtube.com/watch?v=NsNBdPFMuQY>

George Massey Crossing Tunnel Concept, Vancouver, Canada
<https://www.youtube.com/watch?v=8At88ti-yFA>

Immersion Tunnel Coatzacoalcos by Volker Construction International, Mexico
<https://www.youtube.com/watch?v=VFWkoZMja0k>

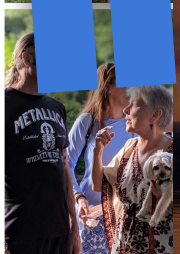
DERSA - Santos Guarujá Immersed Tunnel Project, Brazil
<https://www.youtube.com/watch?v=du8KZob7Pkw>

Busan-Geoje Fixed Link in South Korea
<https://www.youtube.com/watch?v=-aykpUulHJo>



**Immersed Tube Tunnel
better than a
New High Bridge**

Greetings from



Hayden Island



Who are we?

- *Island neighborhood* of 3,000 people
- *Different lifestyles*; Floating homes, condos, apartments, live-aboard boats, large manufactured home park, RVs
- *Mixed incomes, races, nationalities*
- *Large Mall* largest economic driver
- Many Hispanic families, *inclusive neighborhood*

Who are we?



What we do

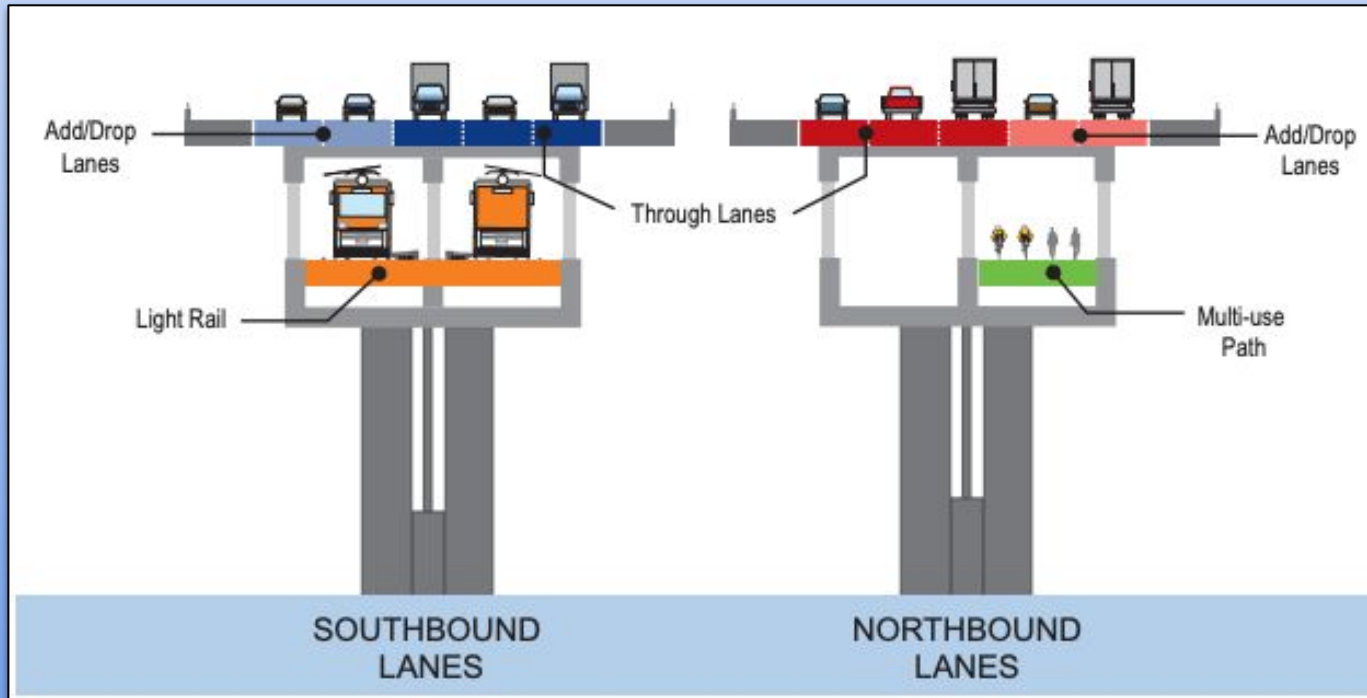
- *Retired folks*
- *White collar professionals*
- *Service industries*
- *Hardworking minority families*
- *Trades people*

What we want

- *A better community*
- *Less congestion*
- *Less pollution, noise*
- *No toll (I-5 sole access)*
- *Bike & car sharing*

Still on the table?

Are Max and BRT necessary? Lyft can run autonomous electric shuttles. Cheaper Faster. No overhead catenary. No driver.



How about more accurate renderings

No lift, so proposed bridge had to be twice as high. Does this look twice as high?



Prior project planning included development of a bridge design concept that accommodated all modes of travel.

The Loop alternative

Two NEW lanes. Connects Vancouver to Portland.
Direct. Fast. Efficient. Cheap. It's free. No drivers.
No gas. No pollution. No noise. Look at it.



What we DON'T want

- *Destruction of livability*
- *A towering 16-lane Viaduct*
- *A bridge **unsuited for 21st century***
- *Tracking all vehicles, 24/7*
- *A DOT/Transit **rubber stamp***

Light Rail Expensive

- How much for a dedicated Max bridge? \$1B?
- Doesn't solve congestion into Portland
- A “loop” tunnel ADDS TWO NEW LANES



Suggestions:

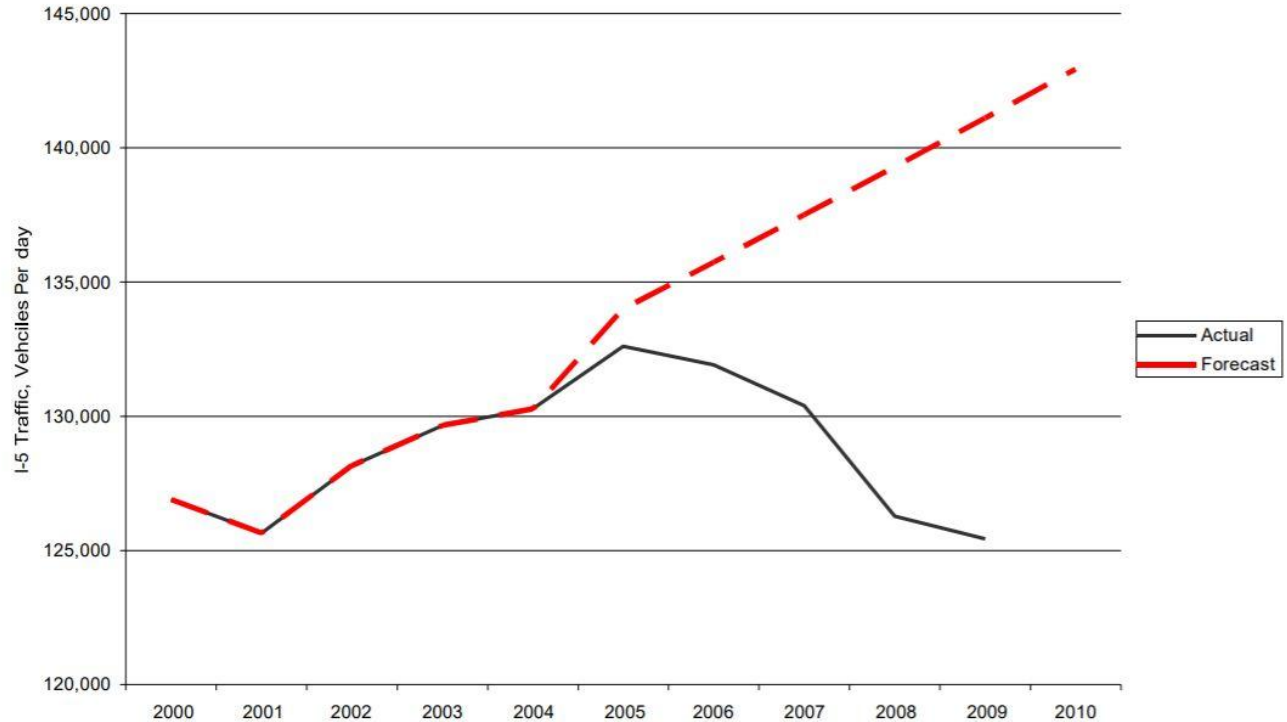
- **Don't waste money**
- *Reduce congestion on I-5*
- *Dedicated transit bridge/lanes costly, congestion remains*
- *“Loop” tunnel adds 2 lanes between downtowns & PIR*
- *Lyft runs shuttle to hub*

For Whom the DOTs Toll?

Sorry. No gas tax for road maintenance

- **Everyone.
And nobody.**
- **EVs WILL
dominate
after 2035**
- **No Gas tax**

CRC Forecast v. Actual



Source: CRC Tolling Studies, RTC Traffic Data

A Vision:

- An 8-14 lane bridge (cheap)
- No Max, No dedicated BRT
- Lyft runs *neighborhood electric shuttles*
- “**Loop**” *connects Vancouver & Portland*
- Bike & car ***sharing***
- Plan for ***autonomy***

Loop Shuttle

**A No DOT solution. No Gas.
No pollution. No driver. No Cost.**



A Vision (more):

- **Limited bridge tolls**
- **Community shuttle free (am/pm)**
- **Personal shuttle (mid-day)**
- **Run by Lyft**
- **Bike & car *sharing***
- **Plan for *autonomy* & *NO gas tax***

Summary

- **3,000 people *live* under the I-5 bridge**
- **Don't condemn Hayden Island**
- **What's changed in 100 years? Lots!**
- **Nobody has all the answers**
- **There *ARE* alternatives**