Hood River – White Salmon

BRIDGE REPLACEMENT PROJECT

EIS Working Group

May 23, 2019

Agenda

- Welcome
- Project updates
- Bridge type selection
- Discussion: Connections to/from the replacement bridge
- Public Comment
- Next Steps
- Adjourn

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Project Updates

Kevin Greenwood, Port of Hood River

Scott Polzin, WSP

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Project Updates

- Navigational survey report
- Environmental technical reports
- Participating agency invitation letters

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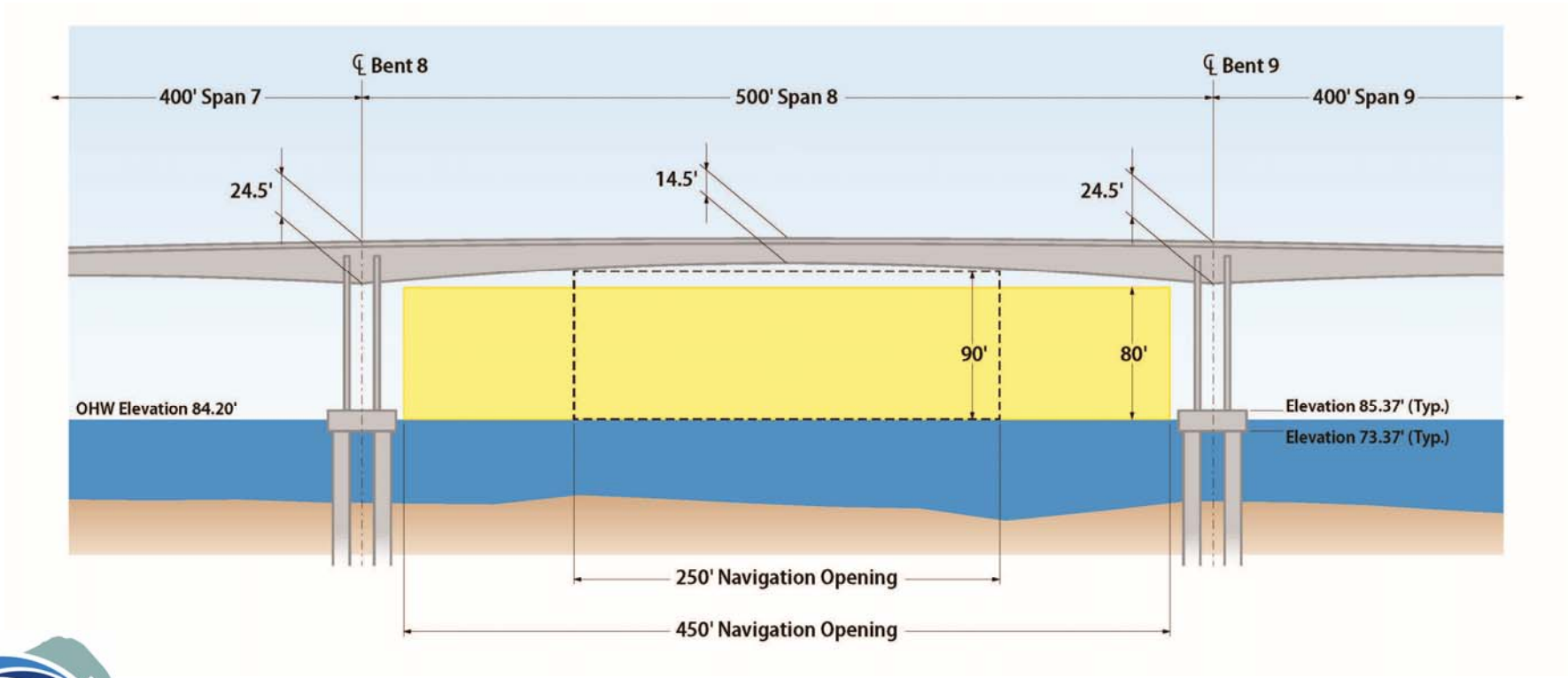
Navigational survey report



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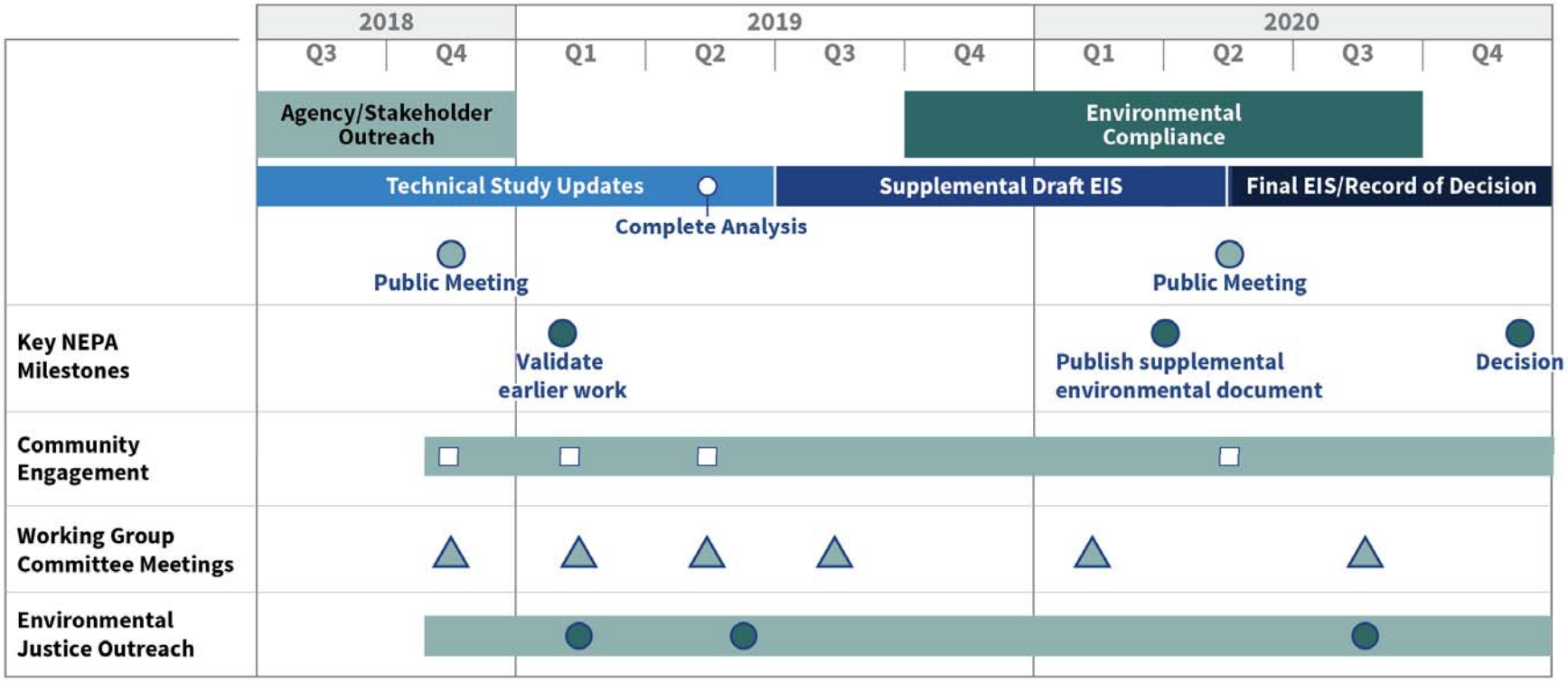
Project Schedule



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Bridge Type Selection

Kevin Greenwood, Port of Hood River

Scott Polzin, WSP

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Bridge Type Evaluation Included in Past Project Phases

1999-2002

- Feasibility Study

2003

- Draft Environmental Impact Statement

2011

- Bridge Type, Size and Location (TS&L) Study

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Feasibility Study Design Workshop (2001)

- Design workshop held with the Steering Committee and the Local Agency Committee
- Identified bridge types for the crossing corridors
- Four bridge types identified
  - Cable Stayed
  - Tied Arch
  - Concrete Haunched Girder Segmental
  - Steel Girder

Conclusions

Committees desired a bridge type and design that would fit well within the scenic landscape of the Gorge but would also be somewhat decorative.

The cable stayed bridge type did not receive much support, so was dropped. The other three bridge types were advanced with minor revisions for consideration in the Draft EIS.

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Draft Environmental Impact Statement (2003)

- Three bridge types were considered as options for all three build alternative alignments
- Bridge types included:
  - Steel Tied Arch
  - Parabolic Concrete Segmental Boxed Girder
  - Steel Girder

Conclusion

No bridge type was selected in this phase.

The preferred bridge alignment, Alternative EC-2 (directly downstream of the existing bridge) was identified.

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Bridge TS&L Design Workshop (2011)

- Design workshop held with the Bi-State Committee
- Basic physical characteristics (span lengths and vertical clearance) provided
- Feedback requested on architectural elements of the bridge

Conclusions

There are no aesthetic issues with moving the three bridge types forward. The aesthetics of the alternatives fit their impression of what the bridges would look like.

The bridge must fit the community. The surrounding natural beauty is cherished and the bridge must not detract from it.

Apply architectural elements to the multi-use path and not necessarily the bridge girders and piers. The aesthetic treatment would be appreciated more from near views (pedestrian path or driver's perspective) rather than views from either shore.

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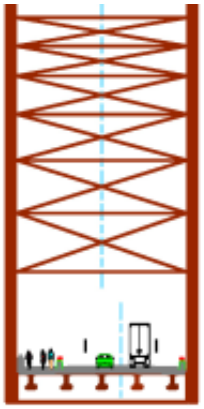
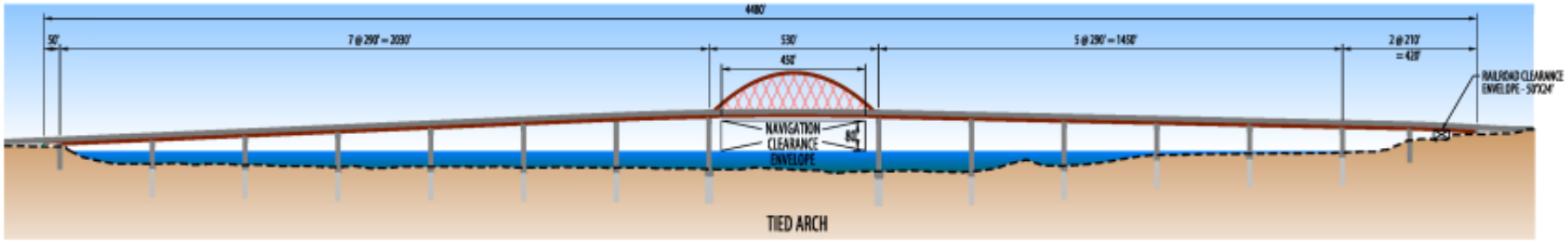
Bridge TS&L Study (2011)

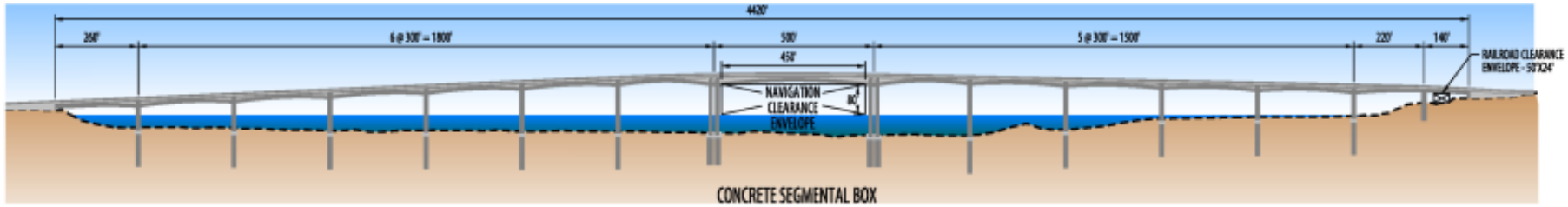


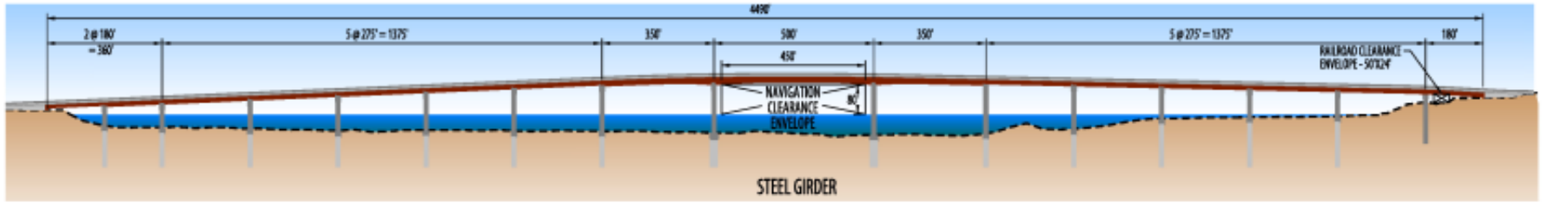
TIED ARCH SECTION

CONCRETE SEGMENTAL BOX SECTION

STEEL GIRDER SECTION







Bridge TS&L Study (2011)

- Three bridge types evaluated
  - Steel Tied Arch
  - Parabolic Concrete Segmental Boxed Girder
  - Steel Plate Girder

Conclusions

With cost and aesthetics serving as key evaluation criteria, the **concrete segmental box girder bridge** was evaluated as the **recommended alternative**.

Evaluation Criteria	Weighting	Steel Girder	Segmental Box	Tied Arch
Design Criteria	4%	✔	✔	
Cost	40%		✔	
Construction	12%		✔	
Risk	12%	✔	✔	
Bridge Aesthetics	13%	✔	✔	
Impact to Recreation Users	10%		✔	
Natural Environment	9%		✔	✔

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Concrete Segmental Box Girder Bridge Type

Connections to/from the replacement bridge

Chivanna Pot, WSP

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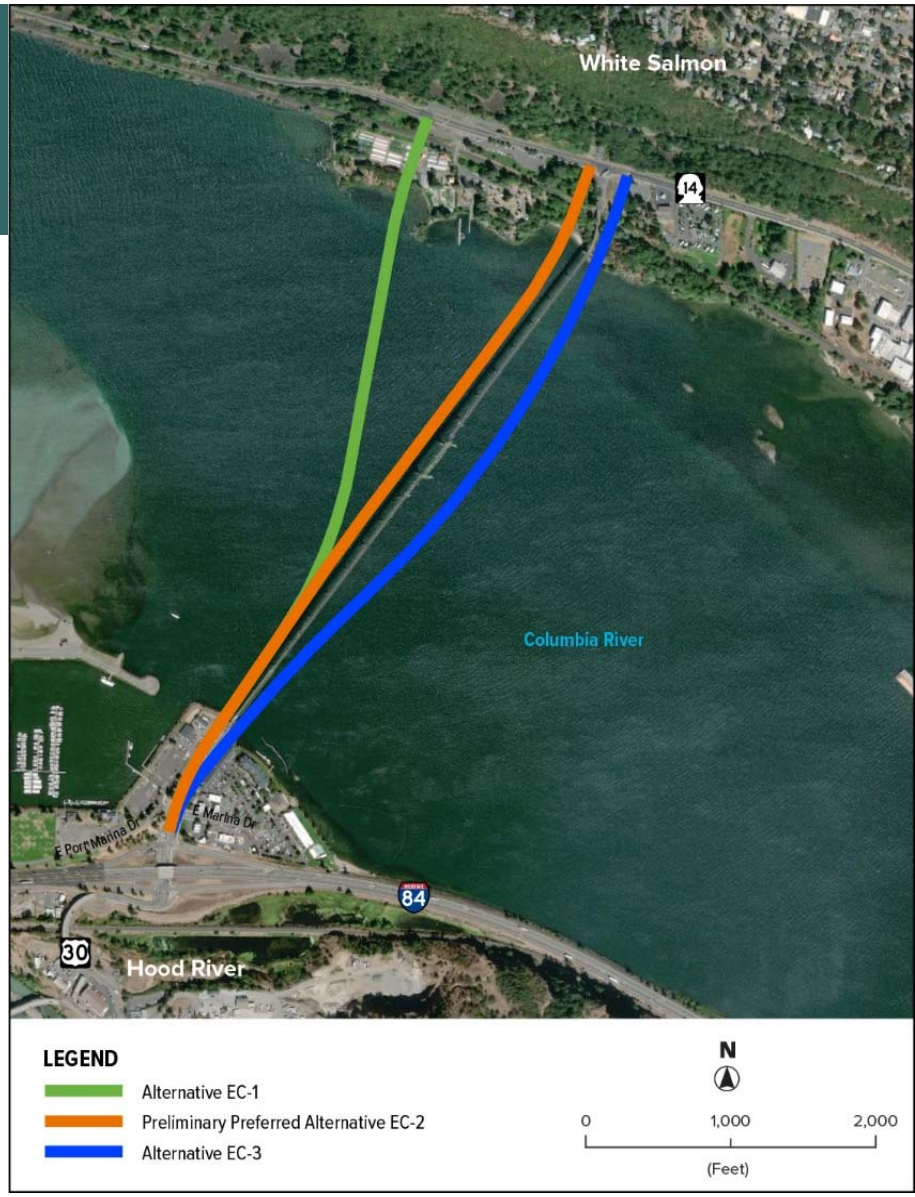
Overview

- **Bicycle/pedestrian pathway options**
  - Connections to existing facilities
  - Technical, safety and ADA considerations
- **Roadway approaches**
  - Washington
  - Oregon



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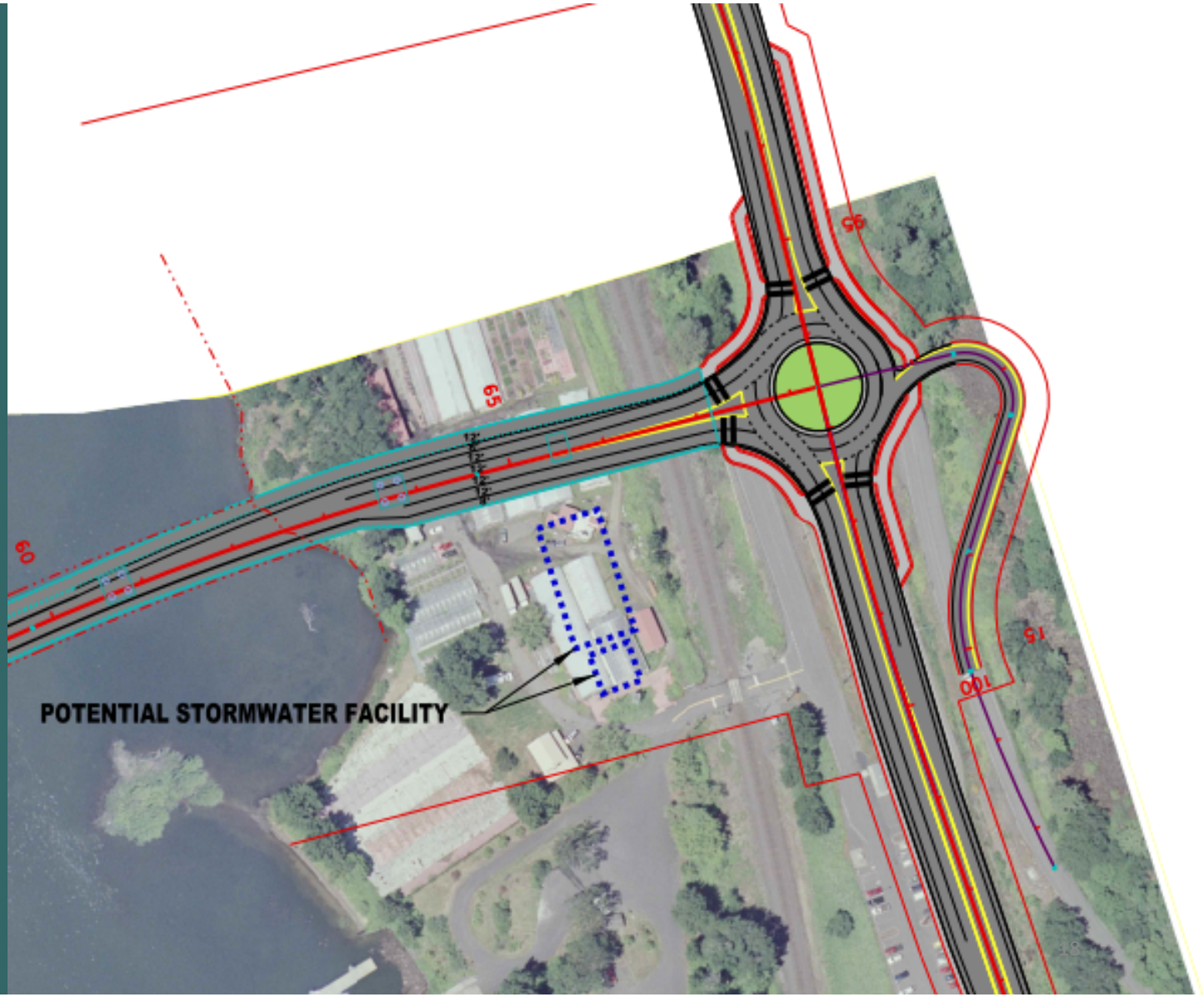
Alternative EC-1 (WA)

Connect to SR-14 at Dock Grade Road



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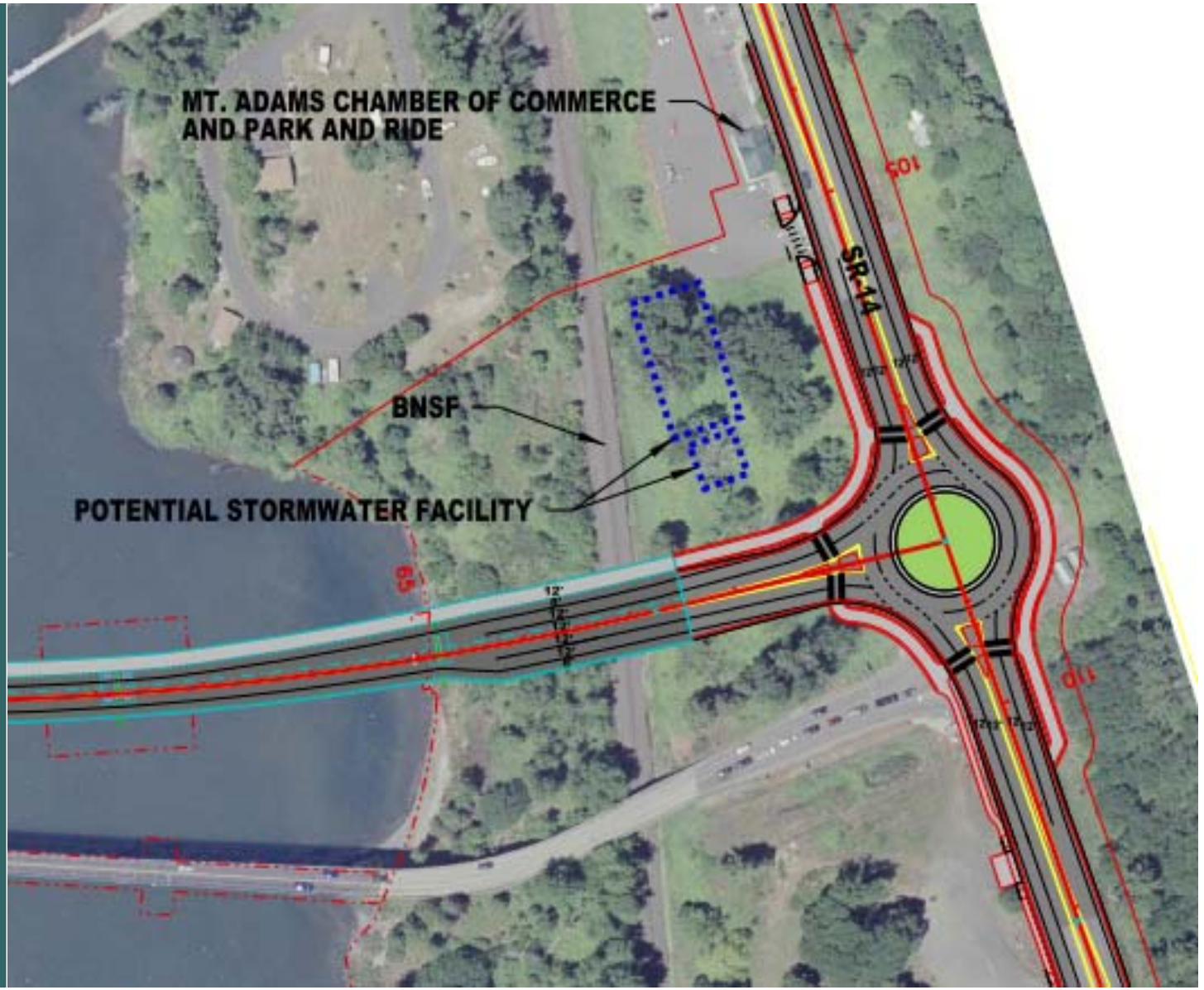
Preliminary Preferred Alternative EC-2 (WA)

Connect to SR-14 west of existing intersection



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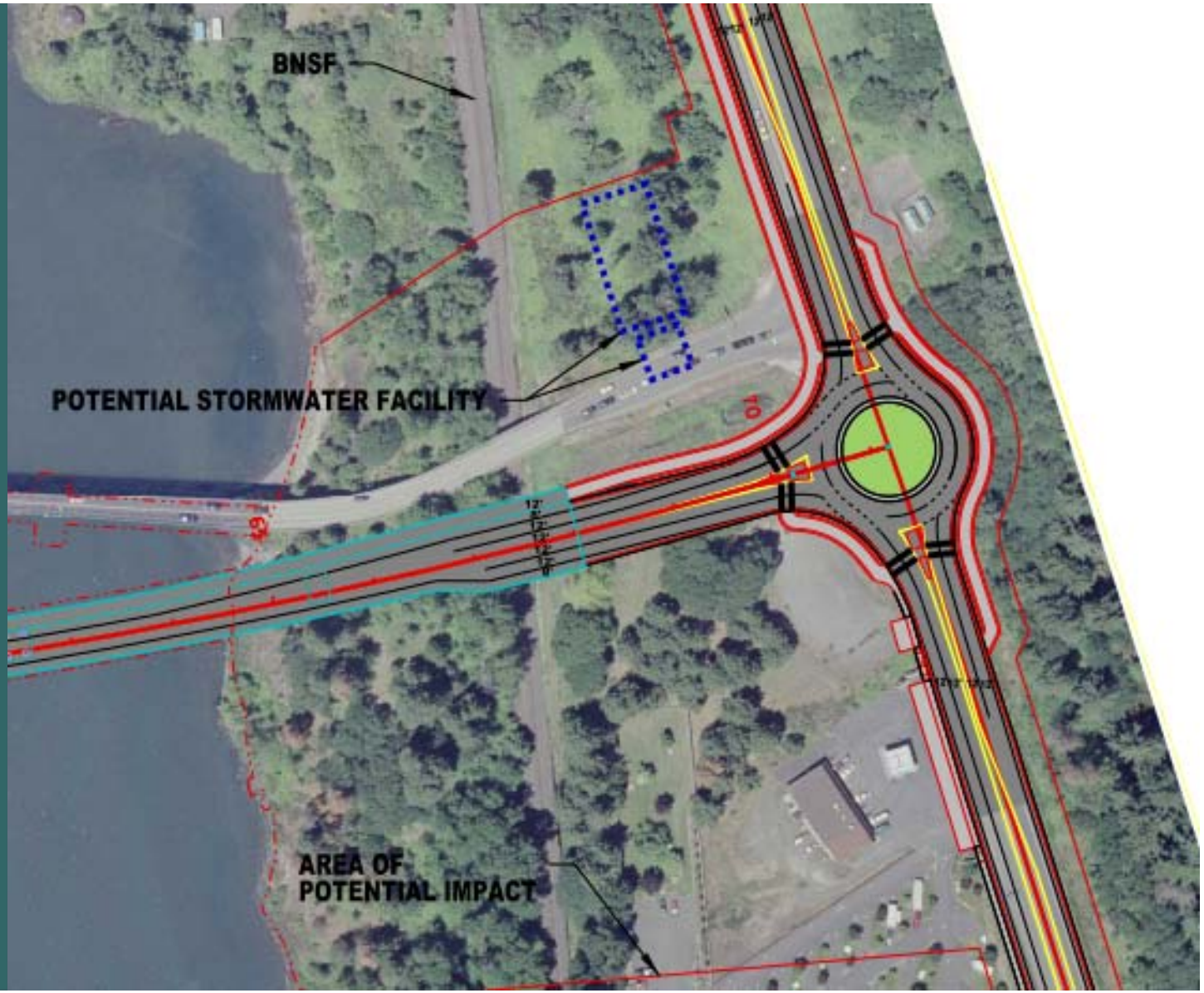
Alternative EC-3 (WA)

Connect to SR-14 east of existing intersection



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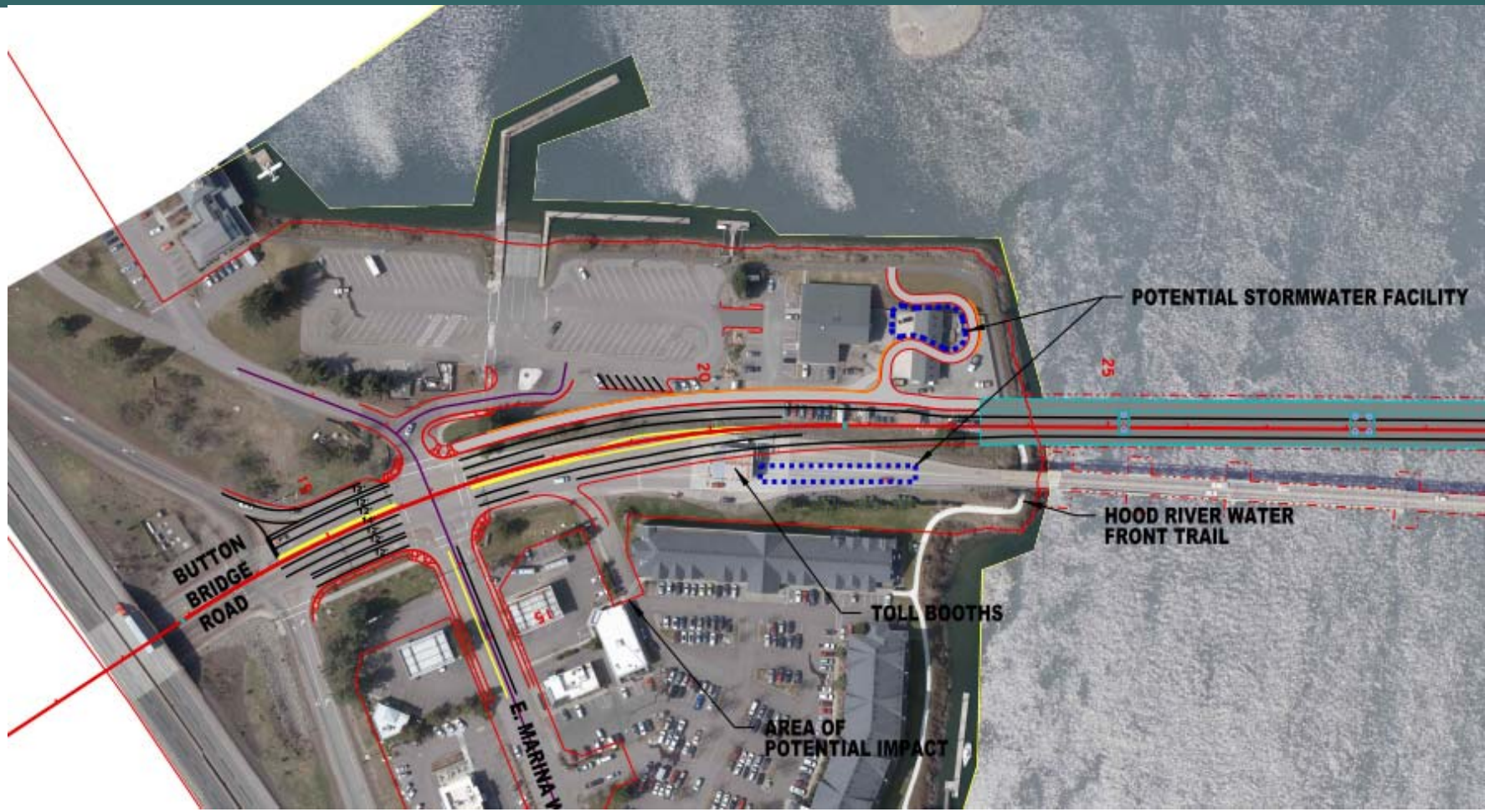
Alternatives EC-1 and EC-2 (OR)
West Connection to E. Marina Way



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Options for Shared Use Path Connection (OR)

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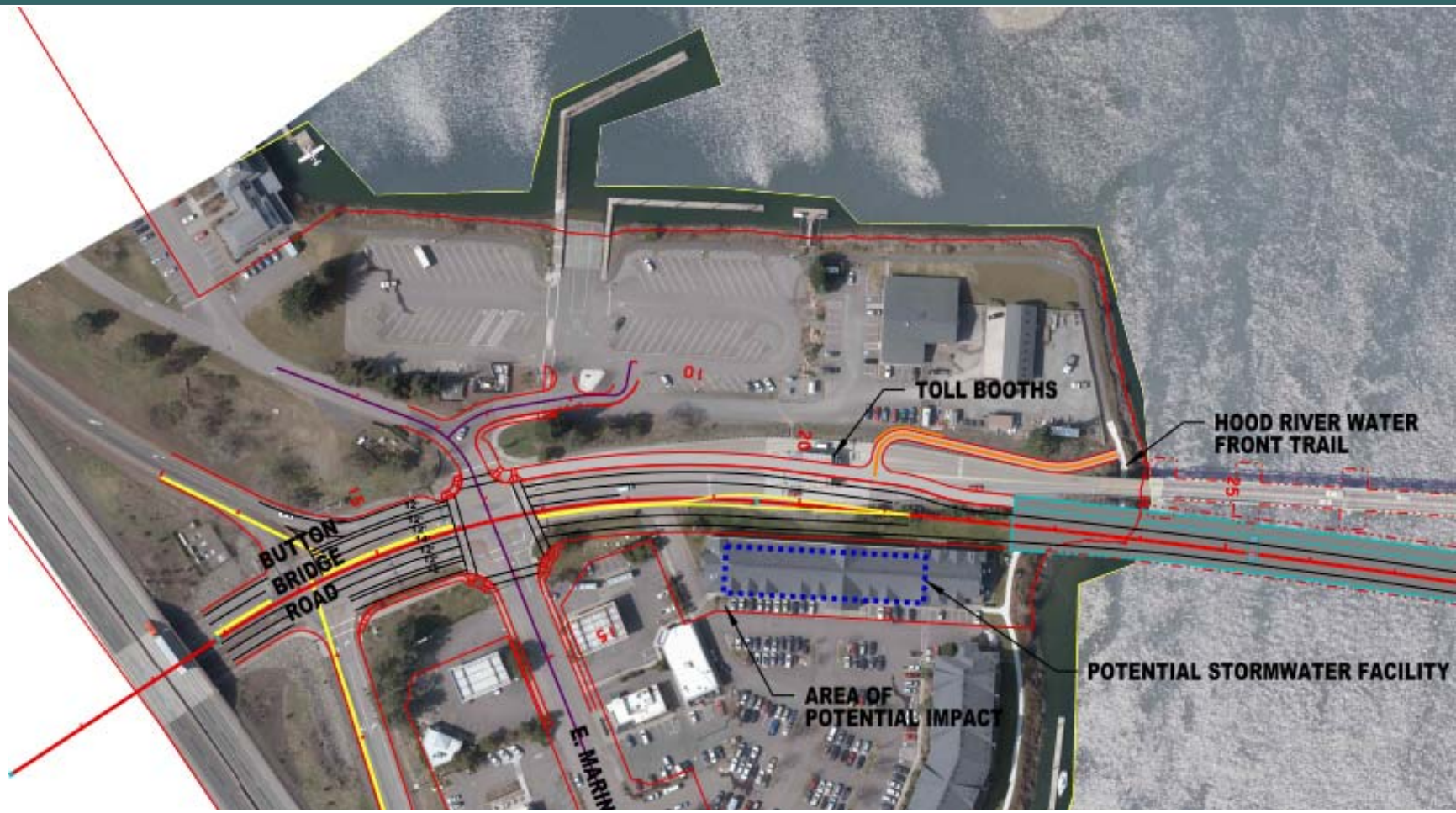
Alternative EC-3 (OR)
East Connection to E. Marina Way



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Public Comment

Anne Pressentin

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Public Comment

- Observers are welcome to provide comment to the Working Group.
- Comment time limits will be determined by number of people desiring to make comment.

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Next Steps

- Meeting schedule/topics
- Action items
- Meeting evaluation

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Adjourn