



Community Task Force Meeting #23

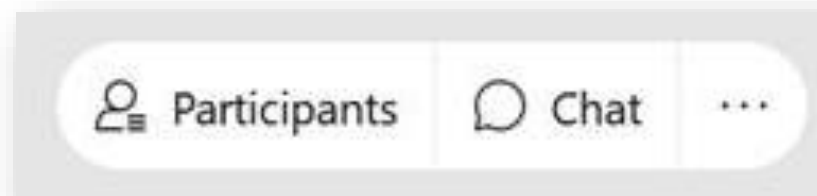
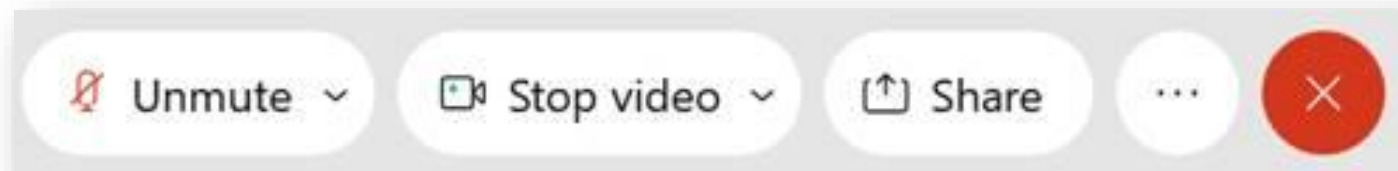
*Members join meeting via
WebEx link in calendar invite*

*NOTE: Meeting is live to the
public and recorded*

Department of Community Services
Transportation Division
January 25, 2021

Meeting Protocols

Using WebEx participation features



For WebEx tech support call or email Liz Stoppelman:

(916) 200-5123

Liz.Stoppelman@hdrinc.com



Agenda

1. Welcome, Introductions & Housekeeping
2. Public Comment
3. Project Update
4. Bridge Types Review
5. Evaluation Criteria Development
6. Open Discussion
7. Next Steps



Introductions and Roll Call

Community Task Force

- **Amy Rathfelder**, Portland Business Alliance
- **Art Graves**, Multnomah County Bike and Pedestrian Citizen Advisory Committee
- **Dennis Corwin**, Portland Spirit
- **Ed Wortman**, Community Member
- **Frederick Cooper**, Laurelhurst Neighborhood Emergency Team and Laurelhurst Neighborhood Association
- **Gabe Rahe**, Burnside Skate Park
- **Howie Bierbaum**, Portland Saturday Market
- **Jackie Tate**, Community Member
- **Jane Gordon**, University of Oregon
- **Jennifer Stein**, Central City Concern
- **Marie Dodds**, AAA of Oregon
- **Neil Jensen**, Gresham Area Chamber of Commerce
- **Paul Leitman**, Oregon Walks
- **Peter Englander**, Old Town Community Association
- **Peter Finley Fry**, Central Eastside Industrial Council
- **Sharon Wood Wortman**, Community Member
- **Stella Funk Butler**, Coalition of Gresham Neighborhood Associations
- **Susan Lindsay**, Buckman Community Association
- **Tesia Eisenberg**, Mercy Corps
- **William Burgel**, Portland Freight Advisory Committee







Draft Environmental Impact Statement (DEIS)



Project Update

DEIS Publication and Comment Period: Late January to mid-March



Objective: Share findings of the environmental analysis and allow for public review and comment on the DEIS. 45-day comment period.

Key Activities:

- Online open house
- Briefings
- In-person hearing by appointment
- Voicemail, emails, comment form, snail mail
- E-newsletters, news releases and social media



DEIS Technical Reports

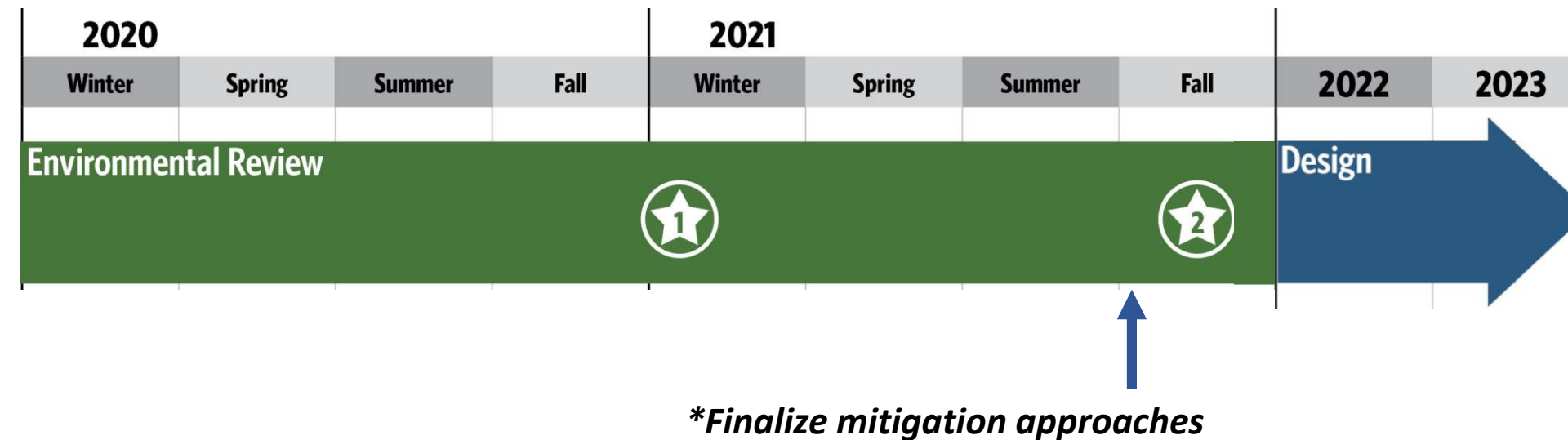
- Acquisitions and Relocations
- Air Quality
- Climate Change*
- Economics
- Environmental Justice
- Equity*
- Floodplain and River Hydraulics
- Geology
- Hazardous Materials
- Health Impact Assessment*
- Historic and Archaeological Resources
- Land Use
- Noise and Vibration

- Parks and Recreation
- Public Services
- Right of Way
- River Navigation
- Social and Neighborhood Resources
- Transportation
- Utilities
- Vegetation, Wildlife, and Aquatic Resources
- Visual and Aesthetic Resources
- Water Quality
- Wetlands and Waters
- Section 4(f) Evaluation



Environmental Review

- ① Jan 2021: Publish Draft EIS and begin 45-day comment period
- ② Fall 2021: Final EIS and Record of Decision



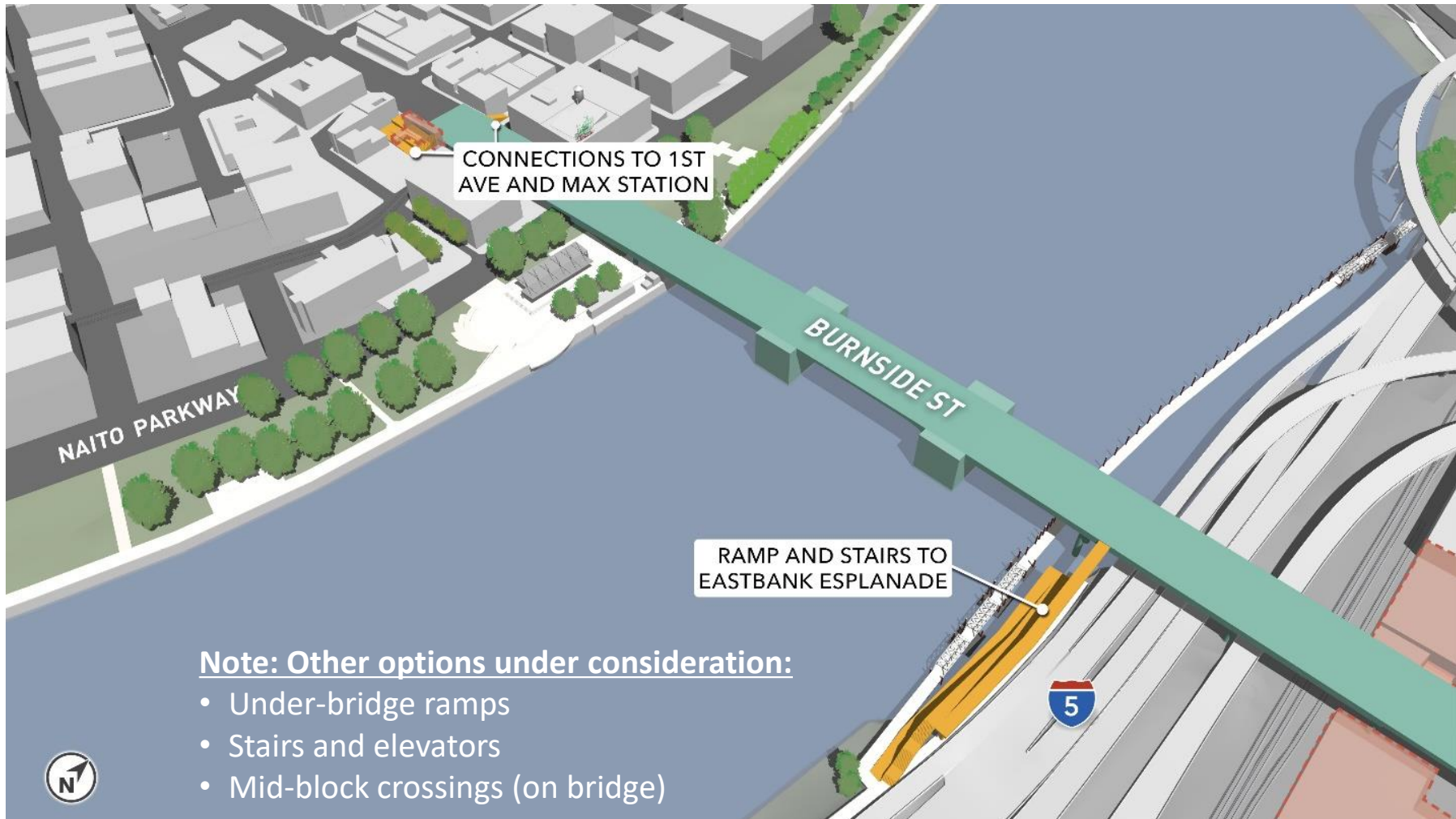


Bike / Ped / ADA Connections



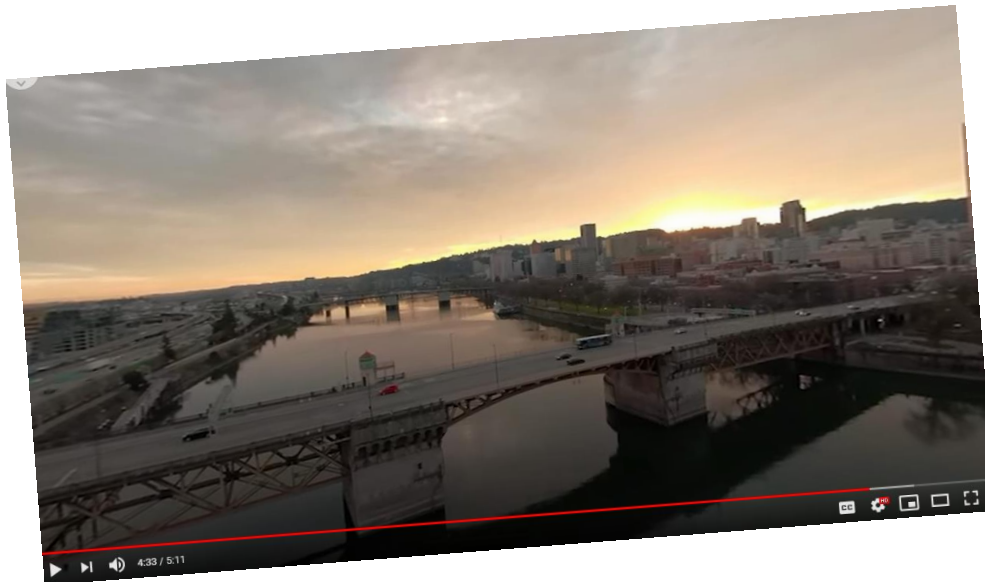
Project Update

Potential Bike / Ped / ADA Access Options



Project Update

Bridge Type Selection Outreach – January 22 to February 21



Objective: Gather input on range of bridge types and evaluation topics

Key Activities:

- Virtual Briefings
- Online Open House and Survey
- Videos
- Webinar
- E-newsletters, news releases and social media
- Diverse outreach through the Community Engagement Liaisons program



Project Update

Working Groups

Urban Design & Aesthetics	<ul style="list-style-type: none"> • Aesthetic / Urban Design insights per bridge type • Recommendation on type selection evaluation criteria 	Feb 2021
Bridge & Seismic	<ul style="list-style-type: none"> • Technical bridge design differentiators • Seismic performance findings 	Feb 2021
Constructability	<ul style="list-style-type: none"> • Construction methods and durations • Range of potential impacts 	Feb 2021
Natural Resources	<ul style="list-style-type: none"> • Impacts to natural resources 	Mar 2021
Diversity, Equity & Inclusion	<ul style="list-style-type: none"> • Bridge option impacts to DEI principles 	Jan 2021
Multi-Modal	<ul style="list-style-type: none"> • Technical input on the bridge uses, typical sections, and connections to the existing multi-modal networks 	Feb 2021
Historic/Cultural Resources	<ul style="list-style-type: none"> • Impacts to historic and cultural resources 	Jan 2021



**CTF members invited to attend working group meetings as desired*



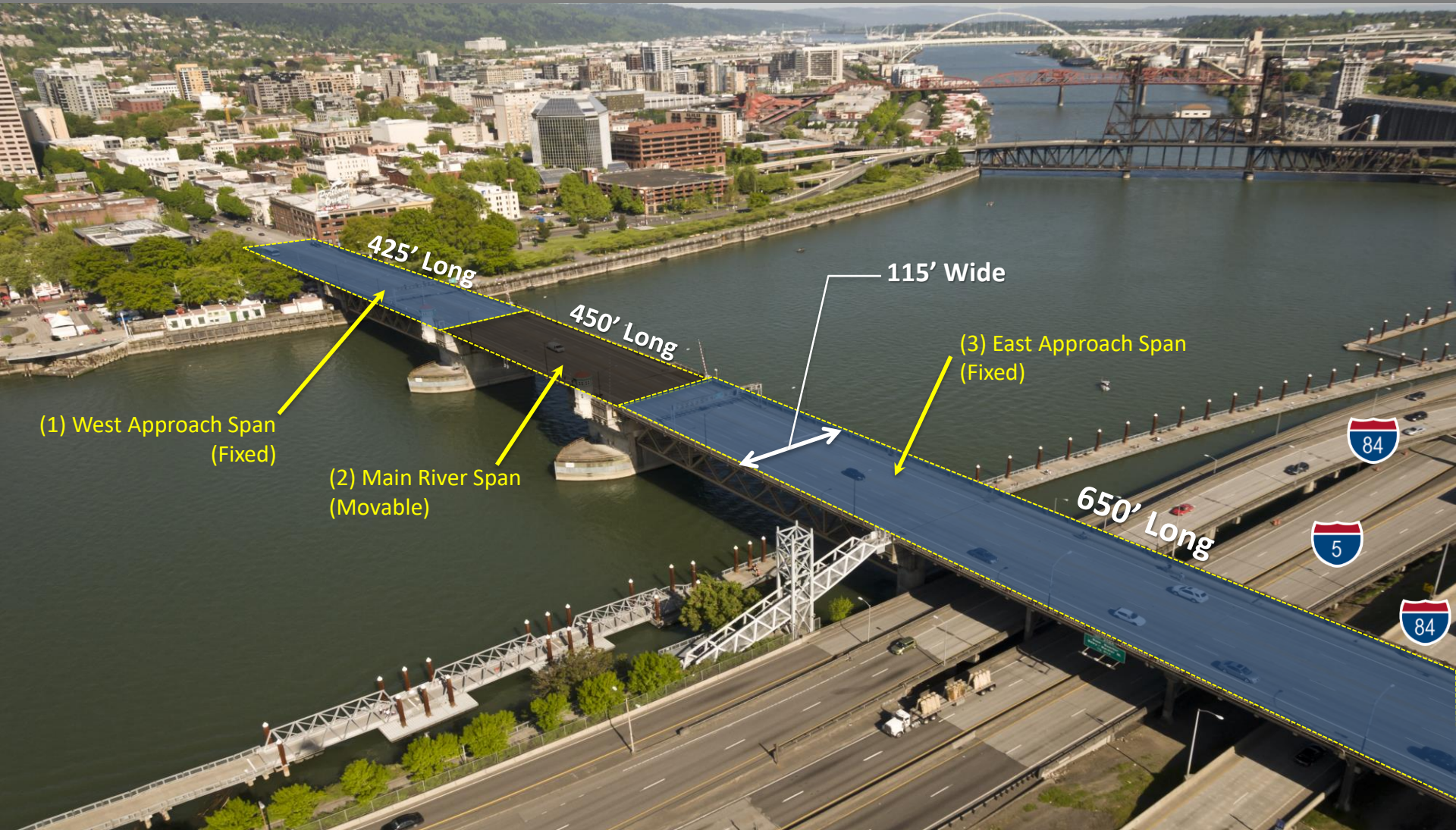
Bridge Type Selection

Bridge Types Review



Range of Bridge Types

Long-span Alternative: "Three bridges in one"



Bridge Type Selection

Tied Arch



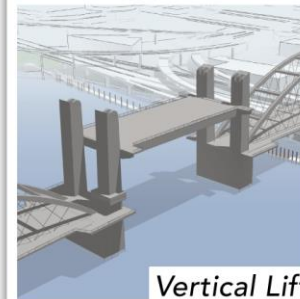
Cable Supported



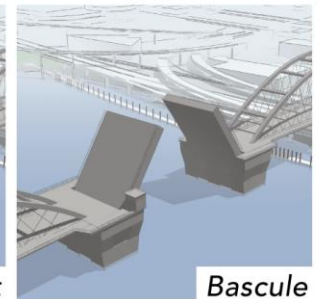
Truss



MOVABLE SPAN TYPES (EXAMPLE)



Vertical Lift

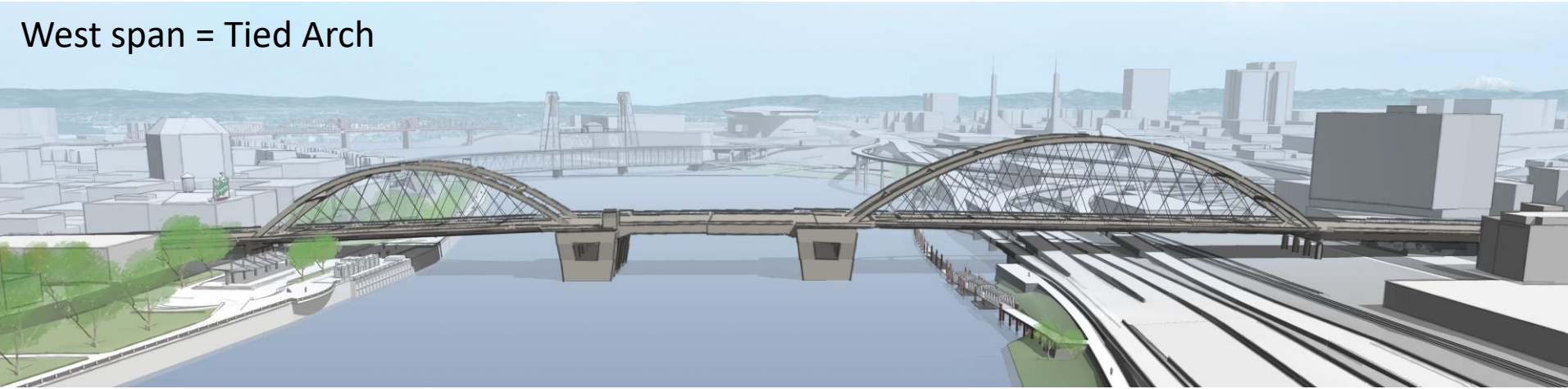


Bascule

Key Interest: Bridge Form and Scale

Tied Arch: Bascule Variations

West span = Tied Arch



West span = Girder



(Example concept images)

Key Interest: Bridge Form and Scale

Tied Arch: Lift Variations

West span = Tied Arch



West span = Girder

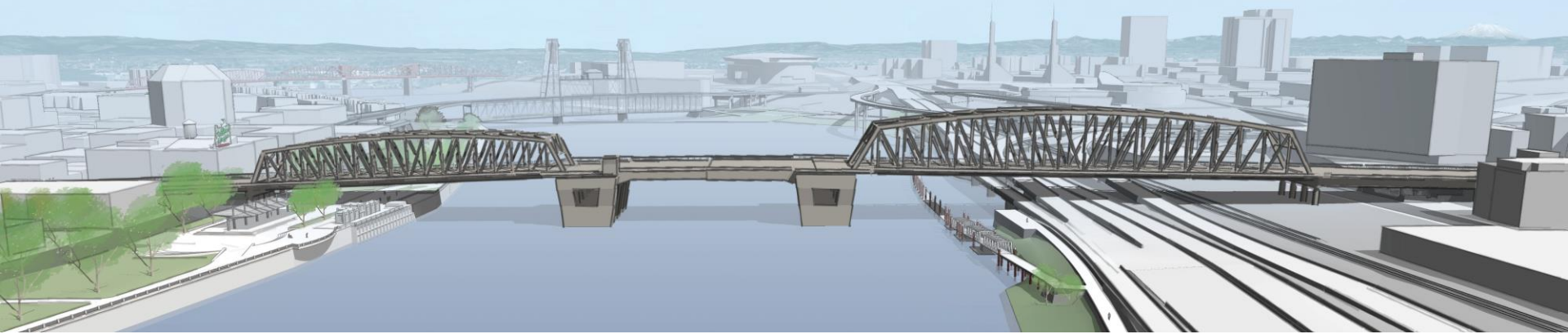


(Example concept images)

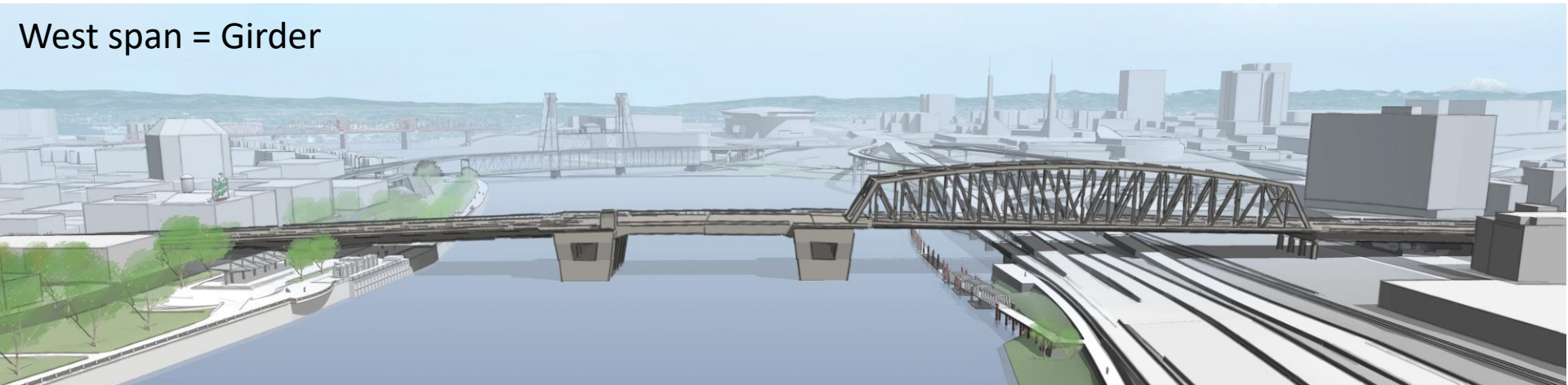
Key Interest: Bridge Form and Scale

Truss: Bascule Variations

West span = Truss



West span = Girder



(Example concept images)

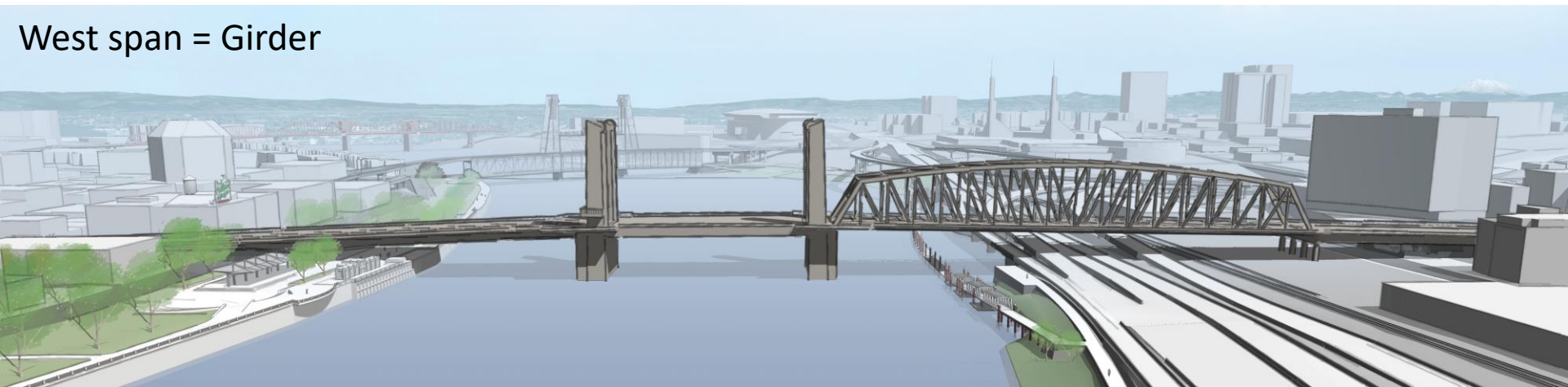
Key Interest: Bridge Form and Scale

Truss: Lift Variations

West span = Truss



West span = Girder

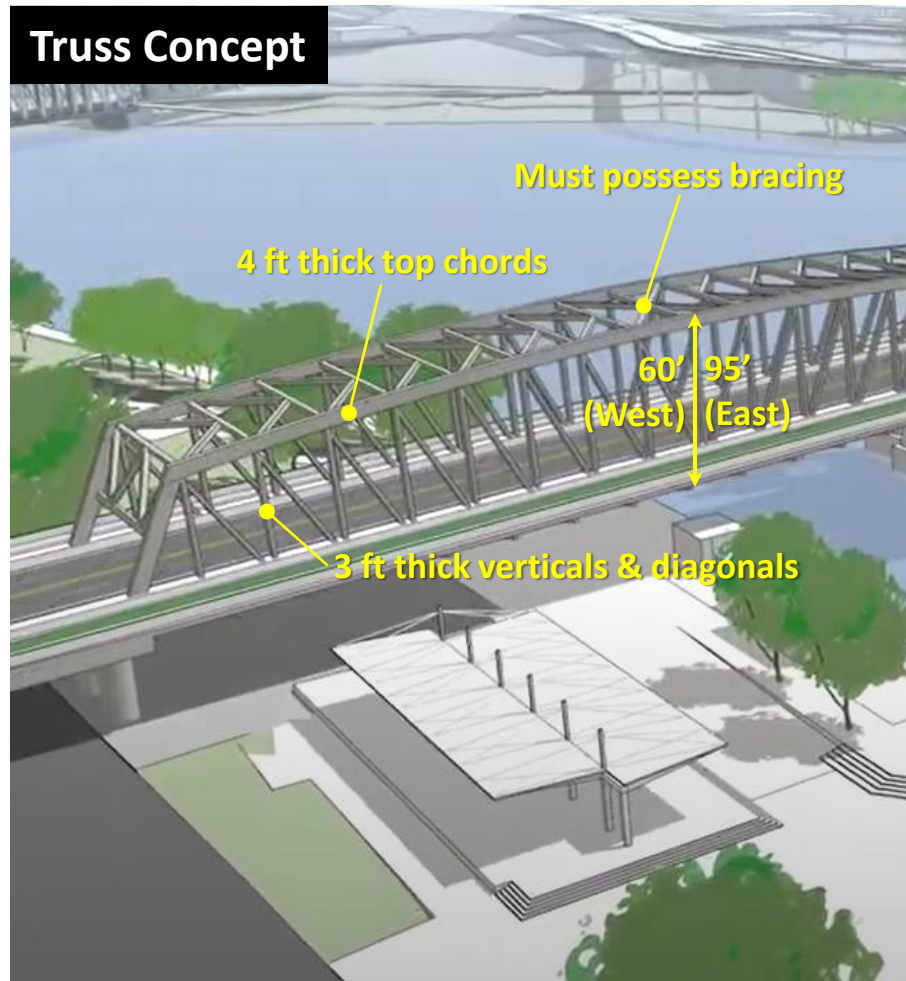


(Example concept images)

Key Interest: Bridge Form and Scale

Truss comparison with Tied Arch

Truss Concept



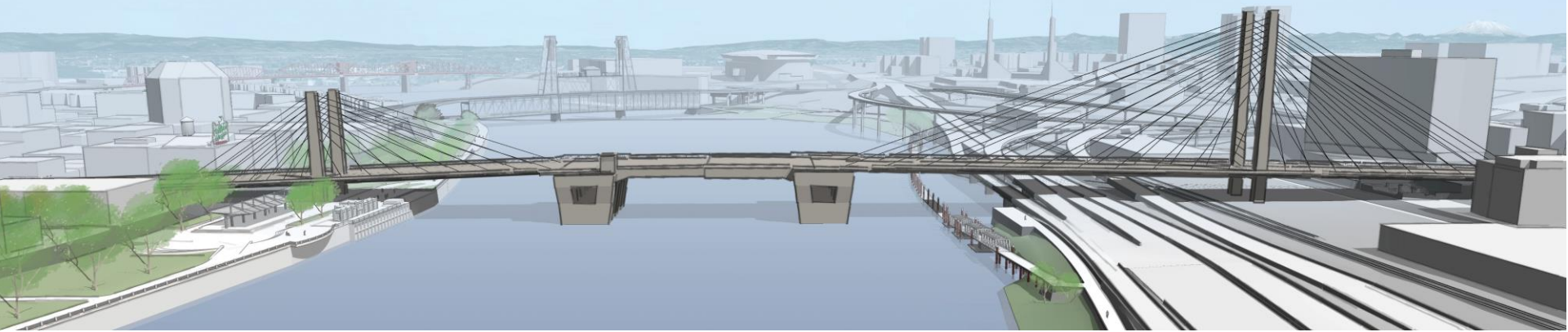
Tied Arch Concept



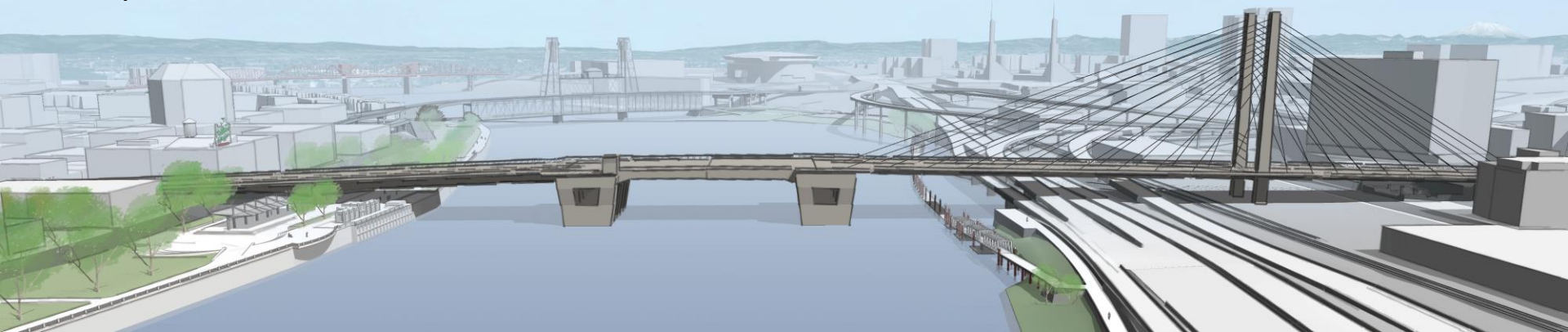
Key Interest: Bridge Form and Scale

Cable Supported: Bascule Variations

West span = Cable Supported



West span = Girder



(Example concept images)

Key Interest: Bridge Form and Scale

Cable Supported: Lift Variations

West span = Cable Supported



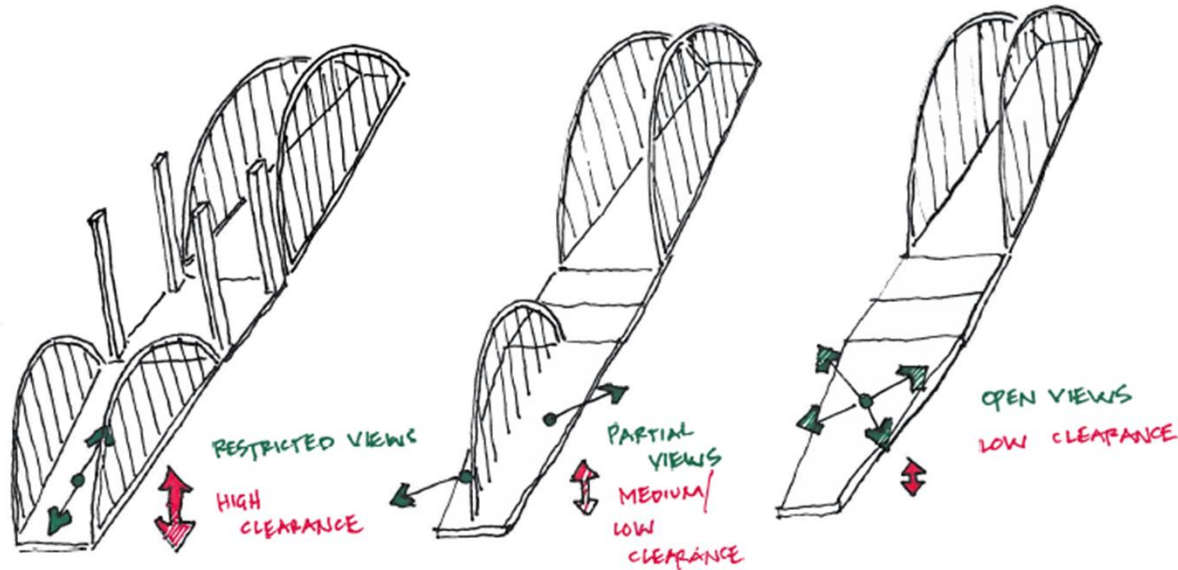
West span = Girder



(Example concept images)

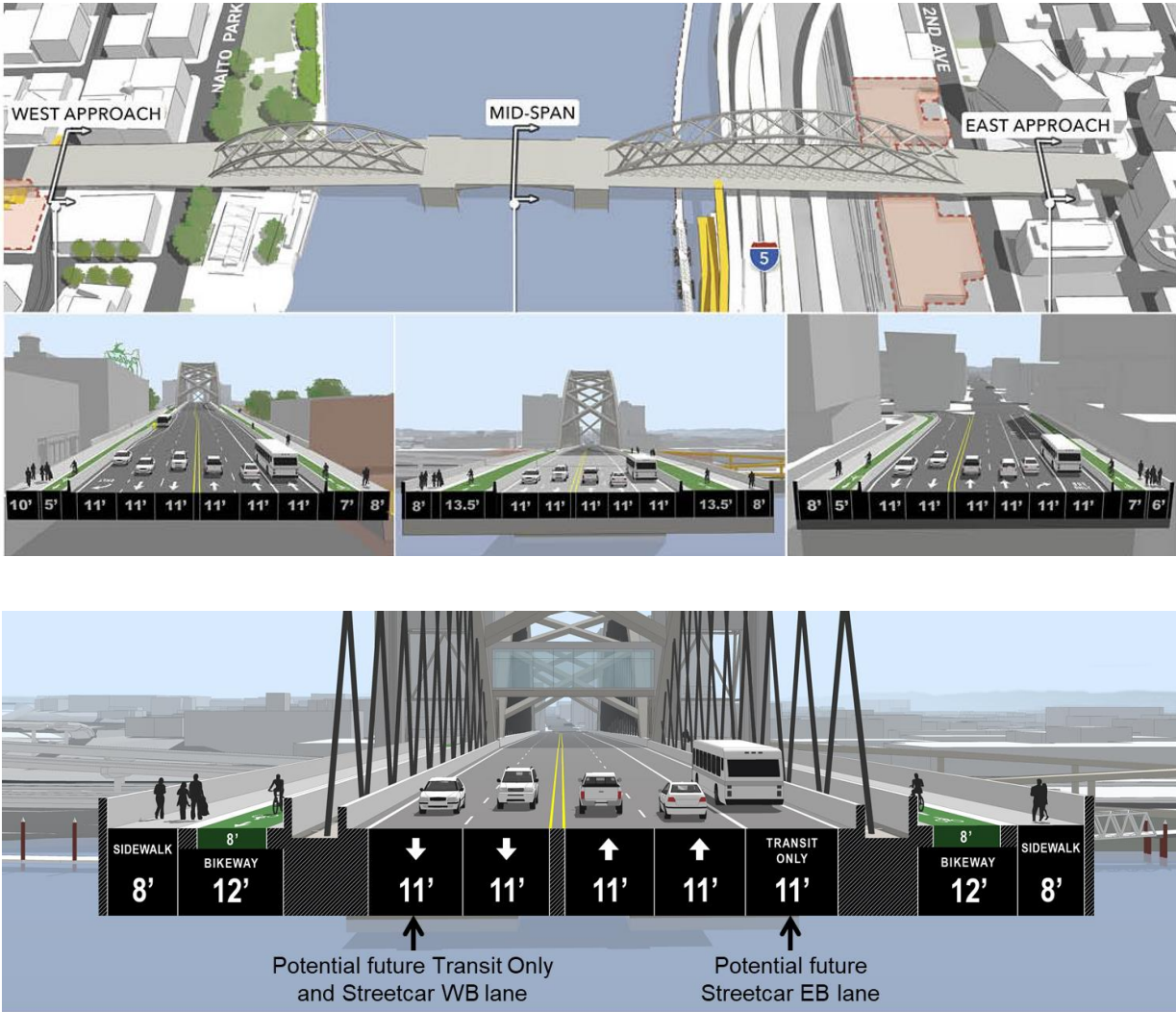
Key Interest: Bridge Form and Views

From on the bridge, other bridges, and Waterfront Park



Key Interest: On-bridge Uses

Views and Public Events



Key Interest: Neighborhood Connection

Gateway and Connectivity between Downtown and the Eastside



Key Interest: Enhance Waterfront Park

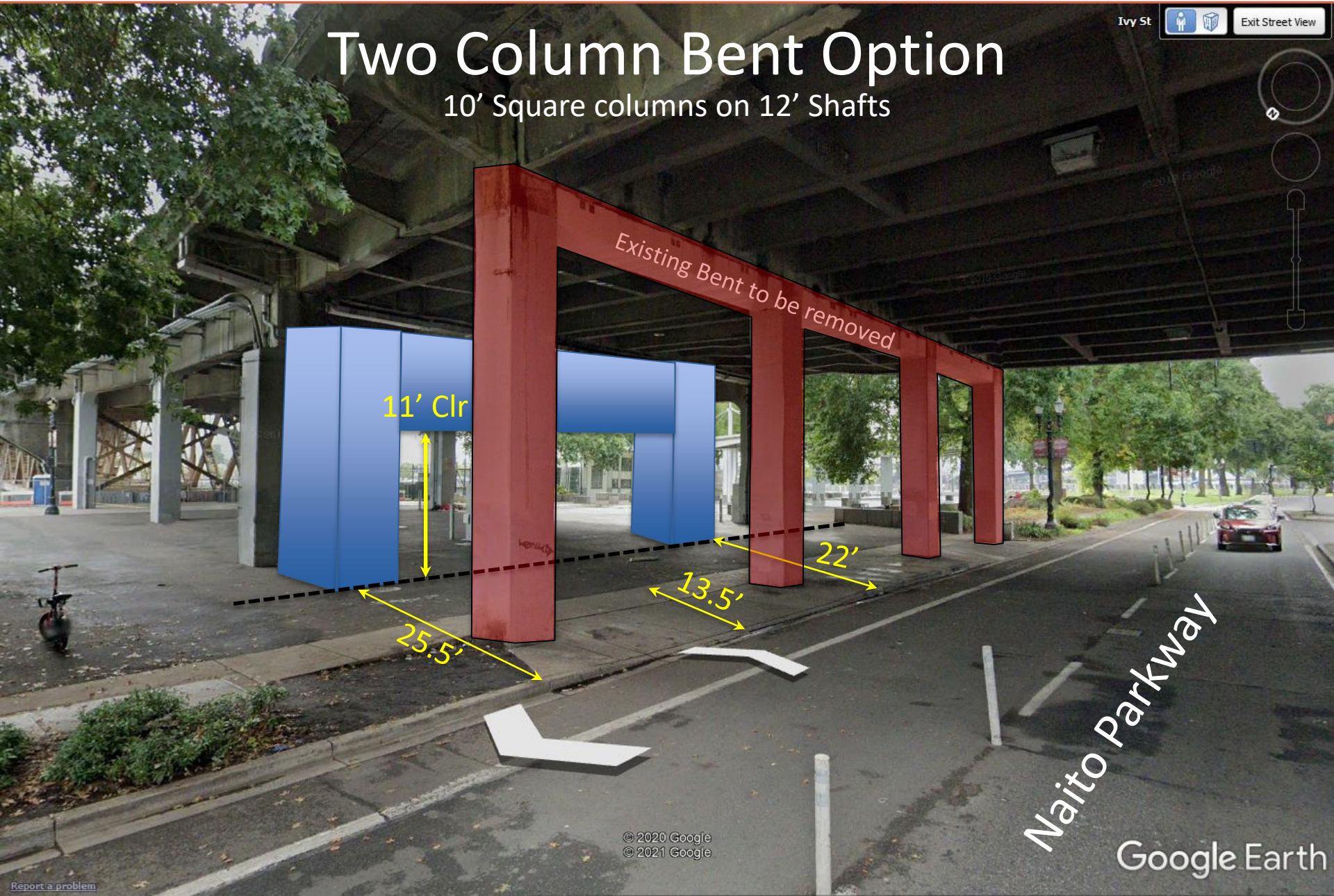


Ivy St

Exit Street View

Two Column Bent Option

10' Square columns on 12' Shafts



© 2020 Google
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Naito Parkway

Google Earth

Key Interest: Enhance Waterfront Park

Girder Options

Benefits of Girder Option:

- Greatest open views above deck
- Least expensive bridge type
- Satisfies 75' Historic District building height limitation

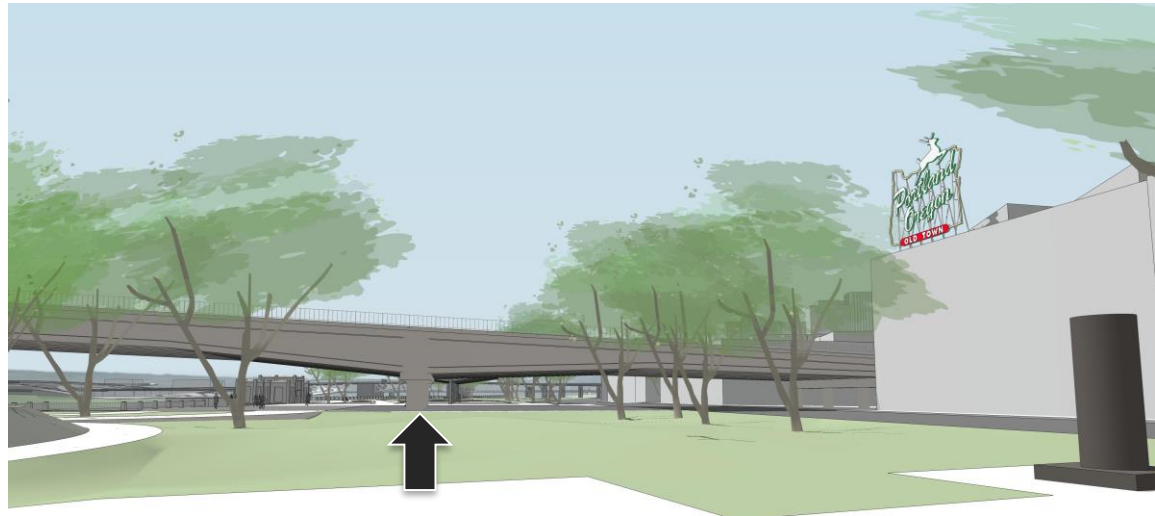
Challenges with Girder Option:

- Significantly reduces vertical clearance within Waterfront Park
- Least “distinctive” style



Support Near Naito Parkway

More Waterfront Park open space, but less vertical clearance



Support in Waterfront Park

Less Waterfront Park open space, but more vertical clearance



Key Interest: Enhance Waterfront Park

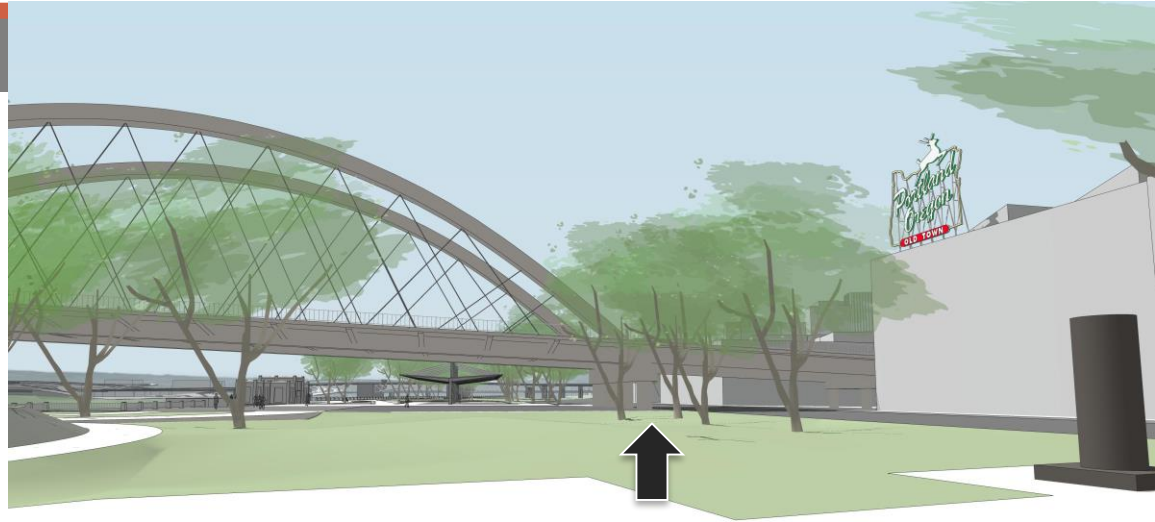
Tied Arch Options

Benefits of Tied Arch Option:

- Provides enhanced vertical clearance within Waterfront Park
- Moderately expensive bridge type
- Somewhat “distinctive” style

Challenges with Tied Arch Option:

- Slightly exceeds 75' Historic District building height limitation



Support Near Naito Parkway

More Waterfront Park open space, but less above deck open space



Support in Waterfront Park

More above deck open space, but less Waterfront Park open space and less vertical clearance on Naito Parkway side of support



Key Interest: Enhance Waterfront Park

Cable Supported Options

Benefits of Cable Supported Option:

- Provides enhanced vertical clearance within Waterfront Park
- Very “distinctive” style

Challenges with Cable Supported Option:

- Most expensive bridge type
- Significantly exceeds 75' Historic District building height limitation



Support Near Naito Parkway

More Waterfront Park open space, but taller towers and more expensive



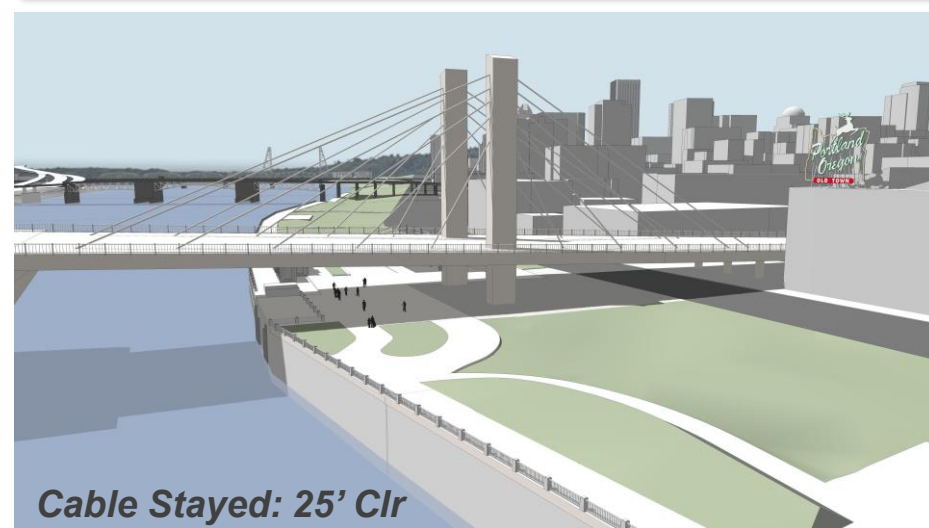
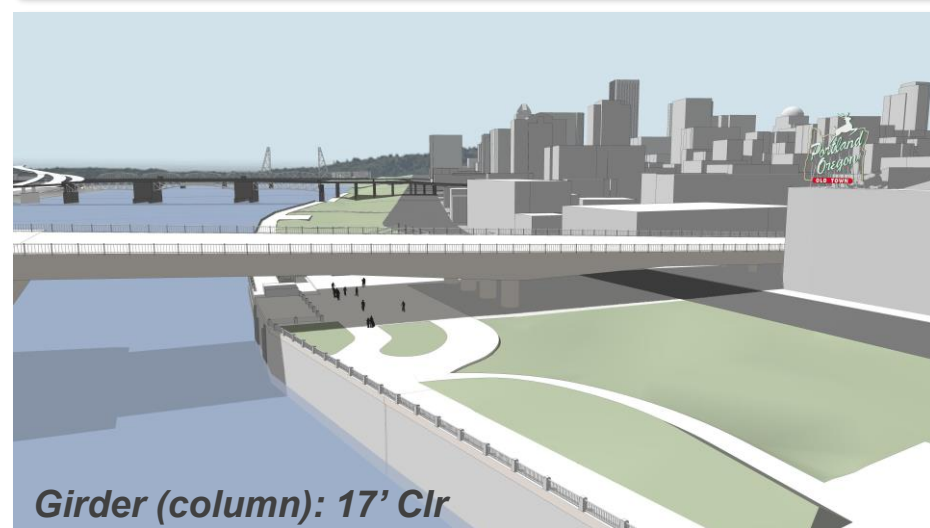
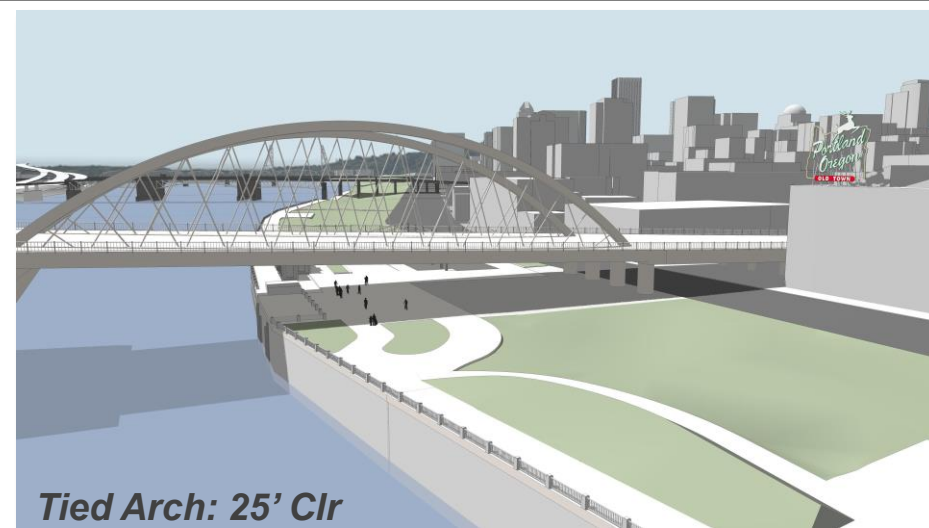
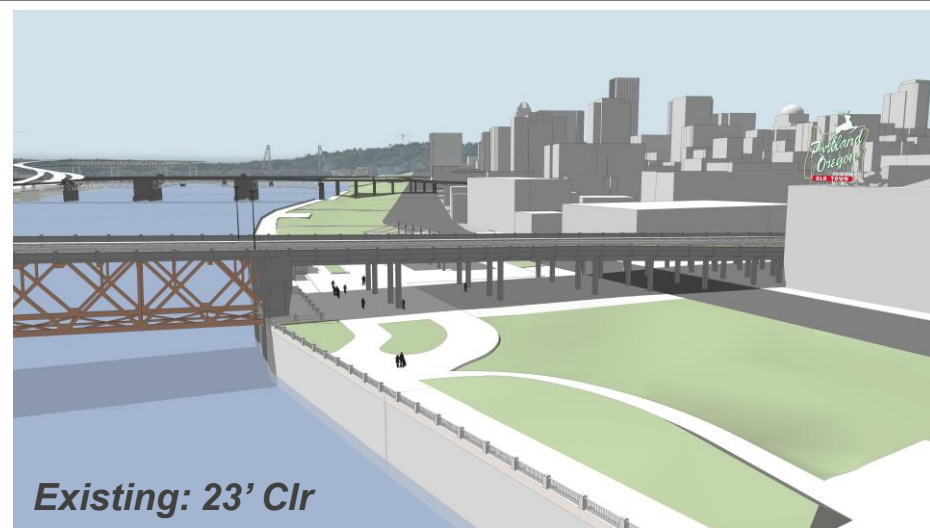
Support in Waterfront Park

Less Waterfront Park open space, but more economical

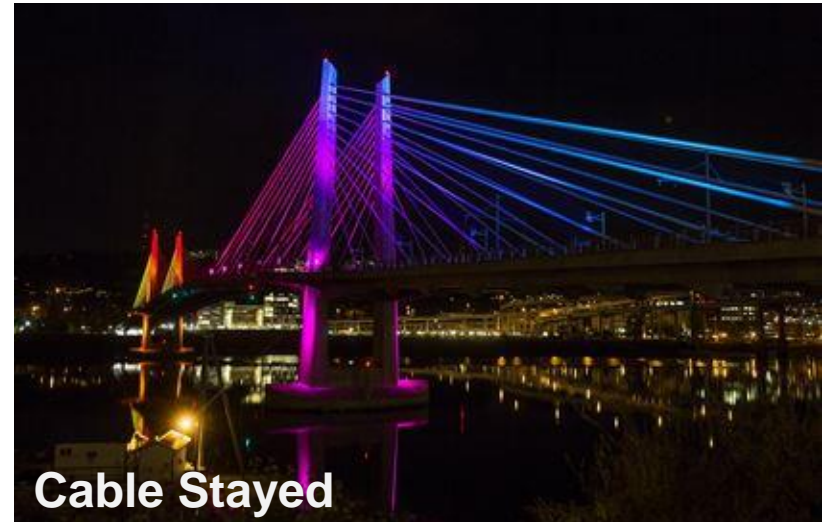


Key Interest: Enhance Waterfront Park

Key Interest: Preserve and Enhance Integrity of Waterfront Park

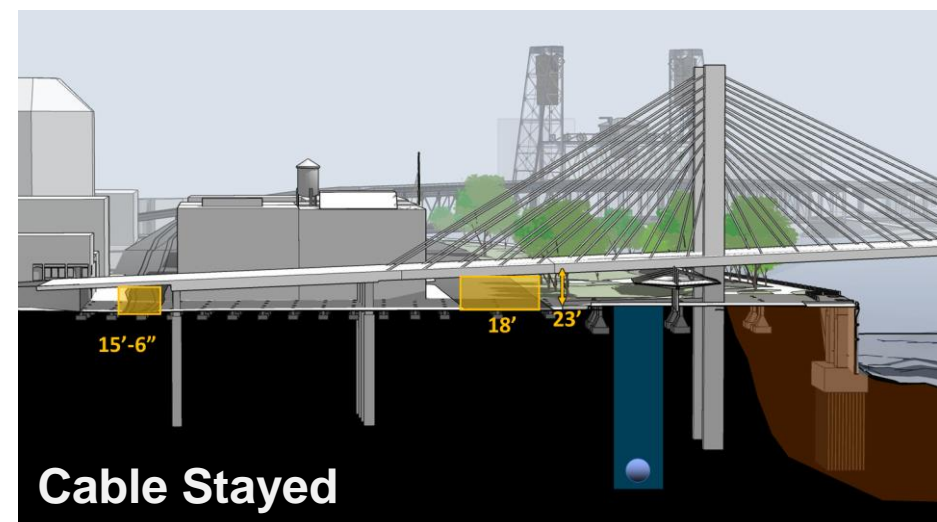
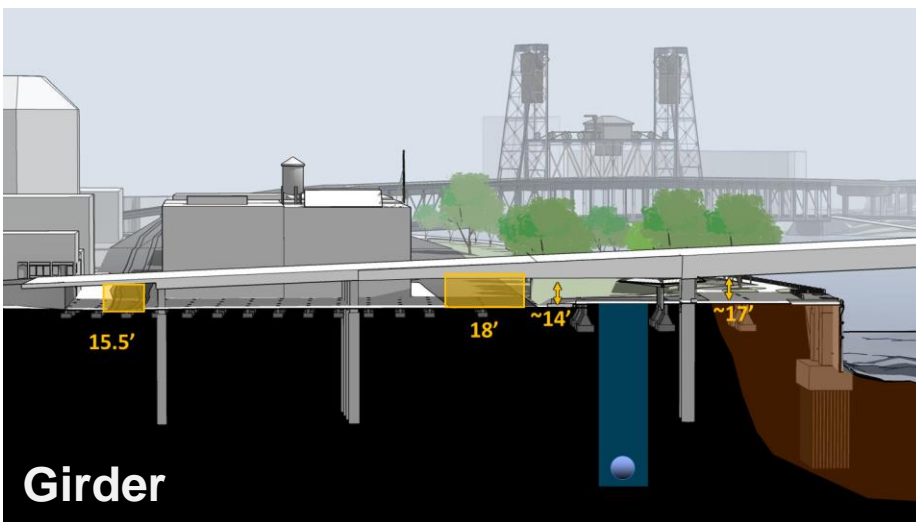
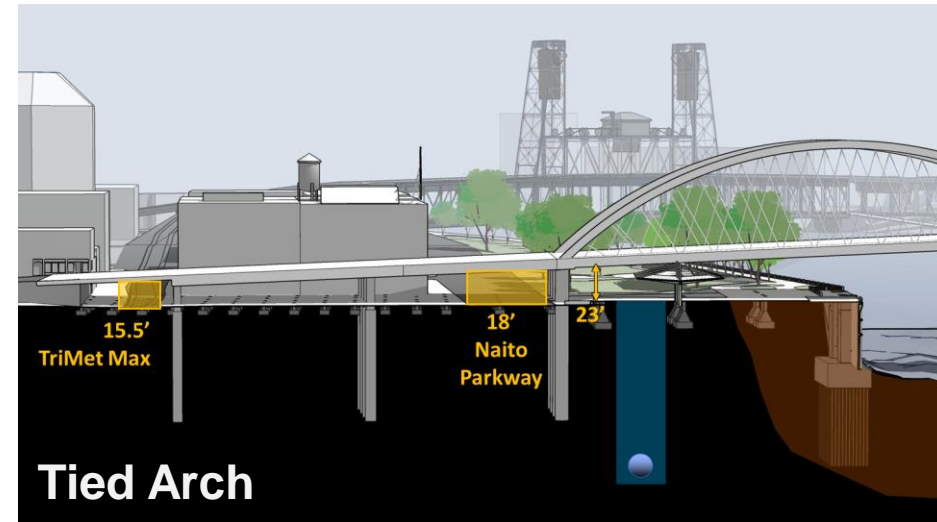
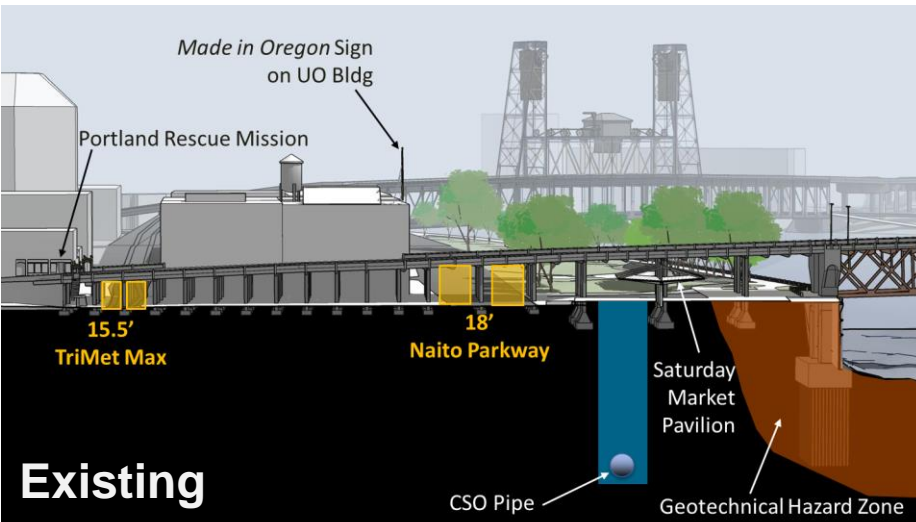


Key Interest: Bridge Form & Lighting



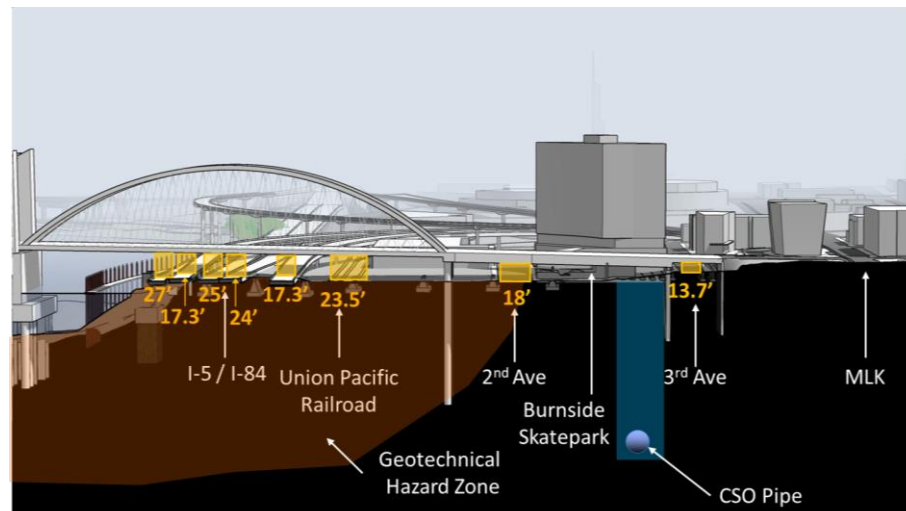
West Approach

Key Interest: Compatibility with Downtown Historic District

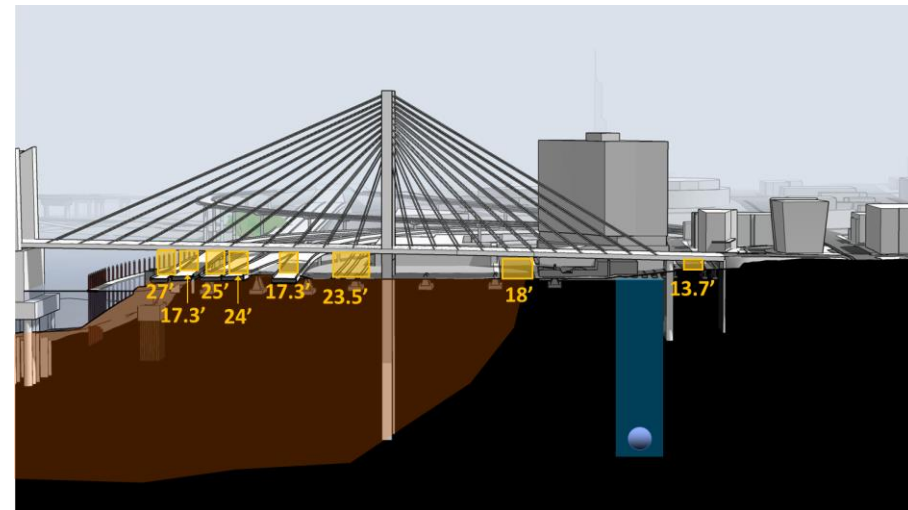


East Approach

Key Interest: Compatibility with Eastside Neighborhoods



Tied Arch



Cable Stayed



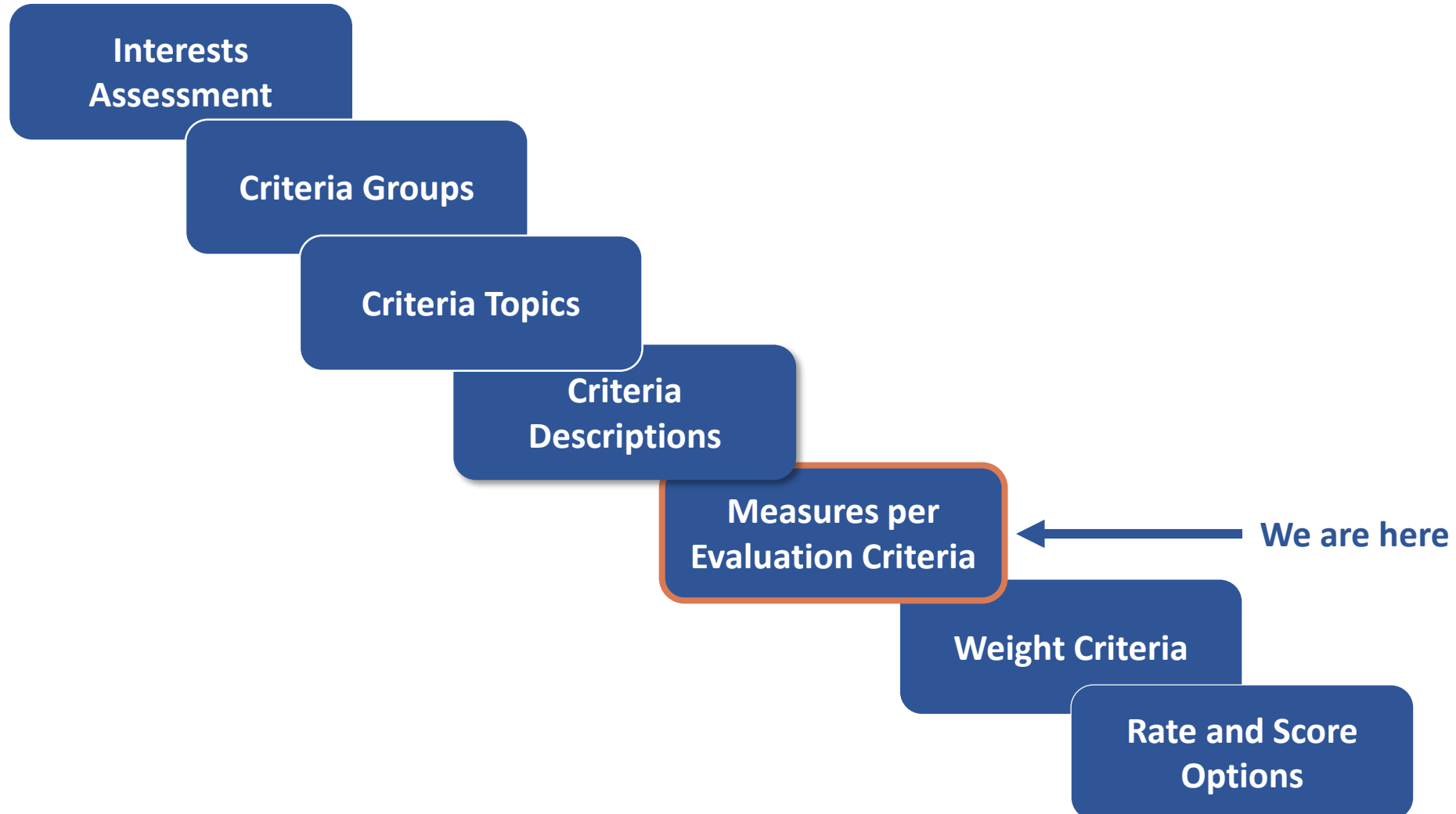
Bridge Type Selection

Criteria Development



Criteria Development

Evaluation Process - *Steps in Getting to a Recommended Bridge Type*



Criteria Development



Refined Criteria Topics for Review

Human Experience & Bridge Surroundings	On-bridge Experience
	Below-bridge Experience
	Relation to Surroundings
	Pedestrian and Bicyclist Connectivity <i>(Recommend moving to future design phase)</i>
Overall Look & Feel of the Bridge	Bridge Overall Look
	Bridge Form and Style
	Flexible Design
Cost & Construction Impacts to Users	Total Project Cost
	Long Term Costs
	Construction Impacts



Refined Criteria Topics, Definitions, and Key Interests Summary

1. Human Experience & Bridge Surroundings

A. On-bridge Experience: How well does the option provide benefits to people when they are on the bridge?

- Provide clear views from the bridge deck to key visual features
- Provide a bridge surface for public events and human-scaled features to enhance user experiences
- Create an intrinsic gateway and enhanced sense of arrival

B. Below-bridge Experience: How well does the option provide benefits to people when they are under the bridge (in areas such as parks, roads, the river)?

- Preserve and enhance the integrity of Tom McCall Waterfront Park and its key features
- Enhance the varied Willamette River in-water uses by minimizing the bridge in-water footprint and maximizing visibility of and connectivity with the river



Refined Criteria Topics, Definitions, and Key Interests Summary

1. Human Experience & Bridge Surroundings (cont.)

C. Relation to Surroundings: How well does the option's scale and form **complement and respond to** the character of surrounding neighborhoods, buildings, parks and historic districts/structures while being distinctive?

- Complement and respond to the character of the Old Town/Chinatown and Downtown neighborhoods
- Complement and respond to the character of the Kerns and Buckman neighborhoods and Central Eastside Industrial District
- Complement and respond to the character, while being distinctive in its own right, of the Willamette River bridges

Pedestrian and Cyclist Connectivity: *How well does the option ensure safe and accessible connections on and off the bridge for people walking, biking or with disabilities?*

Non-differentiating for Type Selection. Recommend moving to future design phase.



Refined Criteria Topics, Definitions, and Key Interests Summary

2. Overall Look & Feel of the Bridge

- A. Bridge Overall Look:** How well does the option's overall form create a look of balance, unity, and flow from key viewpoints above, under, and away from the bridge?
- Create a look of balance, unity, and flow from multiple viewpoints
- B. Bridge Form and Style:** How well does the option acknowledge the historic and natural surroundings while presenting a seismically-resilient, modern design that sets the tone for future development throughout its 100-year design life?
- Balance the desire for a minimized visual mass, especially in the river, while providing a sense of seismic stability and reliability



Refined Criteria Topics, Definitions, and Key Interests Summary

2. Overall Look & Feel of the Bridge (cont.)

C. Flexible Design: How well does the option allow flexibility for engineering and architectural features in final design, as well as adaptability of the bridge for future user needs?

- Serve as an identifiable beacon of safety, a landmark, and a destination within the city during the day and after dark
- Integrate with the natural environment



Refined Criteria Topics, Definitions, and Key Interests Summary

3. Cost and Construction Impacts to Users

A. Total Project Cost: How well does the option minimize the Project's total cost?

- Minimize direct costs to plan, design, and construct the bridge, including the influence of site constructability challenges

B. Long Term Costs: How well does the option minimize long-term costs and support future needs after construction?

- Minimize long-term direct costs to maintain the useful function of the bridge over its design life

C. Construction Impacts: How well does the option minimize impacts to the traveling public and surrounding property owners and tenants during construction?

- Minimize impacts to bridge and adjacent transportation facility users
- Minimize impacts to adjacent properties as a result of construction activities



Criteria Development

Measures Review and Refinement

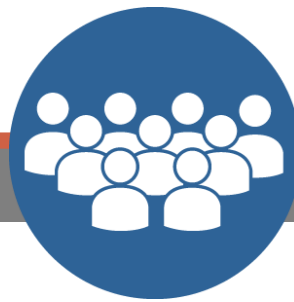




Open Discussion



Next Steps



Upcoming CTF Meetings

- **March 1:**
 - Review community input on range of bridge types and evaluation criteria topics
 - Weight criteria
- **March 15: Policy Group Meeting to Approve Range of Bridge Types and Criteria (CTF ambassador volunteer)**
- **March 22:**
 - Review and discuss evaluation screening results
- **April 5:**
 - Work towards bridge type recommendation
- **April 26:**
 - Make bridge type recommendation for community review
- **June 21:**
 - Review community feedback and make final recommendation to Policy Group



Thank you!

