

Joint Historic Landmarks Commission / Design Commission Briefing

Department of Community Services Transportation Division

June 10, 2024







Meetings

- Briefing to Historic Landmark Commission September 9, 2019
- Briefing to Design Commission September 19, 2019
- Joint Briefing to Historic Landmark Commission / Design Commission July 14, 2020
- Briefing to Historic Landmark Commission December 7, 2020
- Joint Design Advice Request (DAR) Meeting March 4, 2021
 Notes: <u>3/4/21 Design Commission Hearing Agenda | Portland.gov</u>

Prior Presentation Topics

- Project Purpose and Need
- Range of alternatives
- Preferred Alternative Selection Process
- Preferred Alternative Replacement Long Span (with no detour bridge)
 - Why not a bridge seismic retrofit instead?
- Public Outreach Overview





- Review Project Purpose
- Environmental Review Phase Key Findings
- Review Design Phase Key Activities
- Overview of Range of East Approach Bridge Types
- Next Steps



Why is there a need for a seismically resilient Willamette River Crossing?

- Regional earthquake risk: 1 in 3 chance of a magnitude 8+ earthquake occurring within 50 years
- Of the 9 downtown bridges, carrying 41 traffic lanes, none are expected to be immediately usable following a major earthquake.
- Need for seismically resilient crossing in downtown for immediate emergency response and regional recovery



Project location and regional emergency transportation routes



Environmental Review Phase Key Findings



OVERVIEW

- Federally Required: The National Environmental Policy Act (NEPA) was signed into law in 1970.
- **Scope:** Perform a robust analysis of the impacts and benefits (people, place, planet) of a range of alternatives to help identify the option that best meets the purpose and need of the project with the least amount of harm.
- **Outcome:** The selection of a Preferred Alternative, based on analysis and community input, to be advanced into the Design Phase.





REPLACEMENT LONG SPAN BRIDGE



with Tied Arch for eastside long span

with Cable Stay Tower for eastside long span





CLOSE BRIDGE & DETOUR TRAFFIC DURING CONSTRUCTION







TYPICAL CROSS SECTION





READY Districts Adjacent to Burnside Bridge





RTHQUAKE West Approach Bridge Type Findings

Thank you for taking advantage of the opportunity to hold a Design Advice P

iew those recordings, glease visit; https://efiles.portland

millents, too, may evolve or may no longer be pertinent

Historic Landmarks Commission Design Commission

Summary Memo

Respondents

mient. I hope you find it informative and valuable as you continue with your project development

see Historic Landmarks Commission and Design Commission comments are intended to guide you In further design exploration of your project. These comments may also inform City staff when giving guidance over the course of future related and use reviews. It should be understood that these ments address the project as presented on March 4, 2021. As the project design evolves, th

Design Advice Requests are not intended to substitute for other Code-required land use or legislat procedures. Please keep in mind that the formal Type 3 and Type 4 land use review process (which includes a land use review application, public notification and a Final Decision) must be followed once the Design Advice Request meetings are complete, if formal approval for specific elements of you

Please continue to coordinate with me as you prepare your future Land Use Review Application

\$8.00 /00/581 10 CONSTRUCTION

ing, is a summary of the comments provided by the Historic Landmarks Con Design Commission at the March 4, 2021 Design Advice Request. This summary was generated om notes taken at the public meeting and a subsequent review of the public meeting recordings



National Parks Service / FHWA (Section 106 / Section 4(f) Requirements):

Above deck elements in the West Approach create an Adverse Effect on the Ο Skidmore / Old Town Historic District that is avoided with a girder concept

Historic Landmarks Commission / Design Commission:

READY

URNSIDE BRIDGE

- Due to visual impacts to historic districts, Girder-styled west approach option best O meets zoning code and historic guidelines
- **Preference for "observable asymmetry**" due to distinct differences in urban 0 fabric on west and east sides



WHY NOT A SEISMIC RETROFIT?

- Same cost or more as a replacement
- Deteriorated bridge condition (95+ years old)
- Requires major structural modifications
- Remains a Section 106 Adverse Effect



PARTS BEING REPLACED BRIDGE DECK ILLUMINATION AMD TRAFFIC SIGNALS SPANS OVER I-5 8 RAILROAD CONTROL TOWERS MECHANICAL & ELECTRICAL SYSTEM FENDER PARTS BEING REPLACED NNN BURNSIDE ST EXISTING SUPPORT COLUMNS REMOVED REPLACEMENT SUPPORTS & SPANS



Programmatic Agreement

Signatories

- Federal Highway Administration
- Oregon State Historic Preservation Office
- Oregon Department of Transportation
- Multnomah County
- Advisory Council on Historic Preservation

Key Findings: No adverse effect on any historic buildings

Purpose

- Identifies mitigation of adverse effects to the Burnside Bridge
- Defines an Archeological Identification, Monitoring, and Treatment Plan
- Defines minimization efforts for construction vibration
- Identifies stipulations for the protection and treatment of historic resources during construction







*Combined Final Environmental Impact Statement/Record of Decision published in federal register 1/31/204



Design Phase

Key Activities



Design and Construction Timeline





Community Design Advisory Group (CDAG)

- Who: 21 community members who represent a wide range of interests and backgrounds
- What: CDAG will make recommendations on the aesthetic features of the new bridge
- When: Late 2023 through early-2025.
- Meetings are typically in-person at the Multnomah Building, open to the public, and live-streamed and recorded. A public comment period is reserved for public input at each meeting.
- Learn More:

https://www.multco.us/earthquake-readyburnside-bridge/community-design-advisorygroup







Community Design Advisory Group

GUIDING PRINCIPLES

1. Urban/Site Context & User Experience

- A. On-bridge Experience
- B. Below-bridge Experience
- C. Urban Context with Surroundings

2. Visual Character & Aesthetics

- A. Bridge Visual Coherence
- B. Bridge Form & Style
- C. Bridge Aspirations & Design Flexibility
- D. Ped & Cyclist Connectivity



Multnomah County is creating an earthquake-ready downtown river crossing.

Guiding Principles for the Design of the Burnside Bridge

Community Design Advisory Group - March 14, 2024

The following document is intended to be a summary of overarching design principles and approach for the new Burnside Bridge replacement. The guiding principles are proposed to capture key aspirations that relate to the bridge design, regardless of the structural types. They are intended to be high level, holistic, and concise, rather than citing specifics or details of design. They describe the "what" rather than the "how."

The principles have been derived from discussions and notes of the Community Design Advisory Group (CDAG). This draft is based on prior content from the Philininary Type Selection Evaluation Characteria, an Urbam Design and Aratheteria Working Group (UDAWG) document. The prior document was used as a discussion guide when making recommendations about bridge type during the Environmental Review Phase. Using a similar format of the UDAWG document, the guiding principles topic headings poor a qualitative question, while the subsequent outline statements address design principles and user superiories without. Emiling opportunities of the bridge designers.

This document is intended to be a guide for the CDAG when making recommendations about the bridge's design and aesthetics during the Design Phase.

1. Urban/Site Context and User Experience

A. On bridge Experience: How well does the bridge provide public benefits for all users?

- Provide clear and/or curated views from the bridge deck of:
 The bridge invalue its structure students and been
- The bridge itself—its structure, details and form.
 The cityscape, including downtown and the Eastside.
- Distant landscapes and geographic features such as the West Hills, Willamotte River, MI, St. Helms, and open skies.
- ML St. Helens, and open skes.
 Adjacent up- and down-river bridges.
- Other key views such as the Portland Oregon sign. Tom McCall Waterfront Park, the US Bank Tower, the Moda Center, the Oregon Convention Center, and the Lloyd District towers.
- Ensure that a portion of the bridge deck functions as a flexible open space for public events, such as the Rose Festival Grand Floral Parade and other civic gatherings.
- Create civic-scaled and/or human-scaled gateways and an enhanced sense of arrival.
- Recepties the bridge as the geographic center of the city and a destination for pedestriums.
 Below bridge Experience: How well does the bridge respond to the user experience of public spaces, tramportation, parks and natural environments under or adjacent to the bridge?



CDAG Guiding Principles | March 14, 2024



Provided with Meeting Info Packet





C Engagement with Historic Landmarks/Design Commissions, feedback provided to CDAG



Range of East Approach Bridge Types



Constraints > physical restrictions

sediment close to river





BEAM



East-west scale differential (Burnside)



BEAM

Convenient bridge iconography



BEAM

The unsellable T-shirt





Axial river view southwards from CL of downstream bridges



View northwards on Naito Parkway Cable Stayed Bridge

View northwards on Willamette

View northwards on I-5



View northwards on Naito Parkway Arch Bridge

View northwards on Willamette

View northwards on I-5

Three Bridges in One





View north on CL of river orthogonal to bridge





View northwards on I-5









Axial view eastwards on Burnside

























Stage 1 Exploration

















Stage 2 Screening



Stage 3 Evaluation





TA1 – Unbraced vertical arch

TA2 - Braced basket-handle arch

TA3a – Braced vertical arch (short)

Next Steps

Land Use Application Timelines

BURNSIDE BRIDGE

READY

EARTHQUAKE 🔛





August 2024 Design Advice Request // Proposed Topics

- Seek input on Type IV Demolition Review criteria
- Review Section 106
- Project Update





Questions?

Thank you