



Hello



MultCo Advisory Committee on Sustainability & Innovation Briefing

Department of Community Services
Transportation Division

November 13, 2024



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

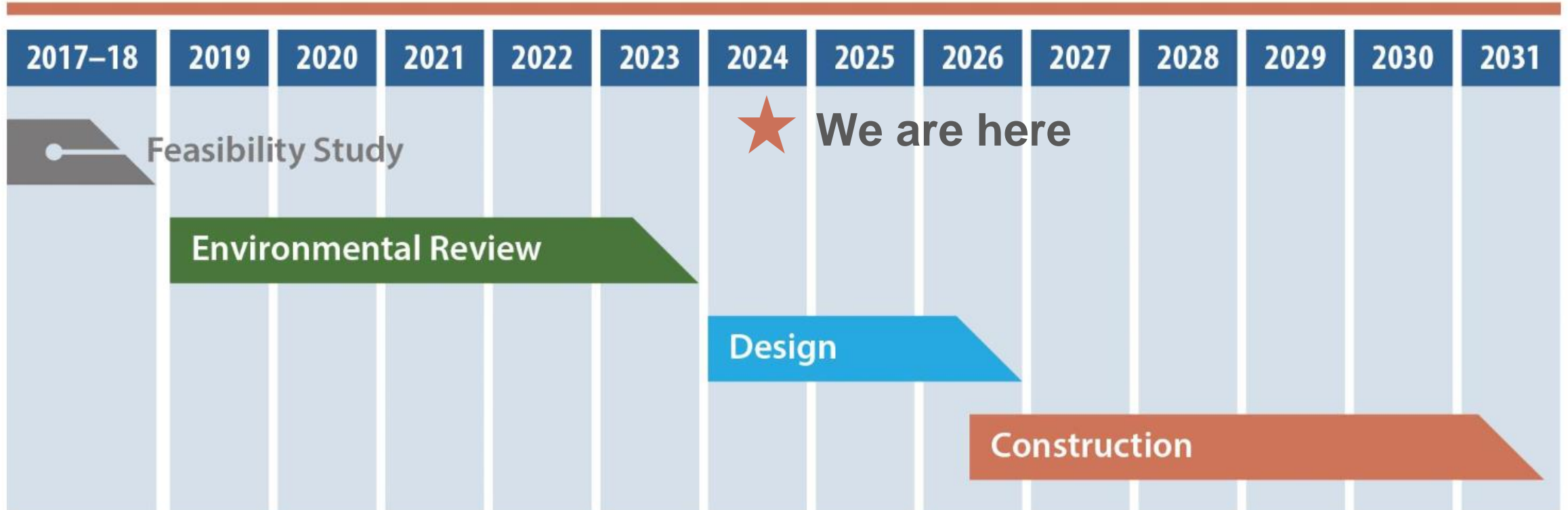
- Regional earthquake risk: 1 in 3 chance of a magnitude 8+ earthquake occurring within 50 years
- Of the 9 downtown bridges, carrying 41 traffic lanes, none are expected to be immediately usable following a major earthquake.
- Need for seismically resilient crossing in downtown for immediate emergency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

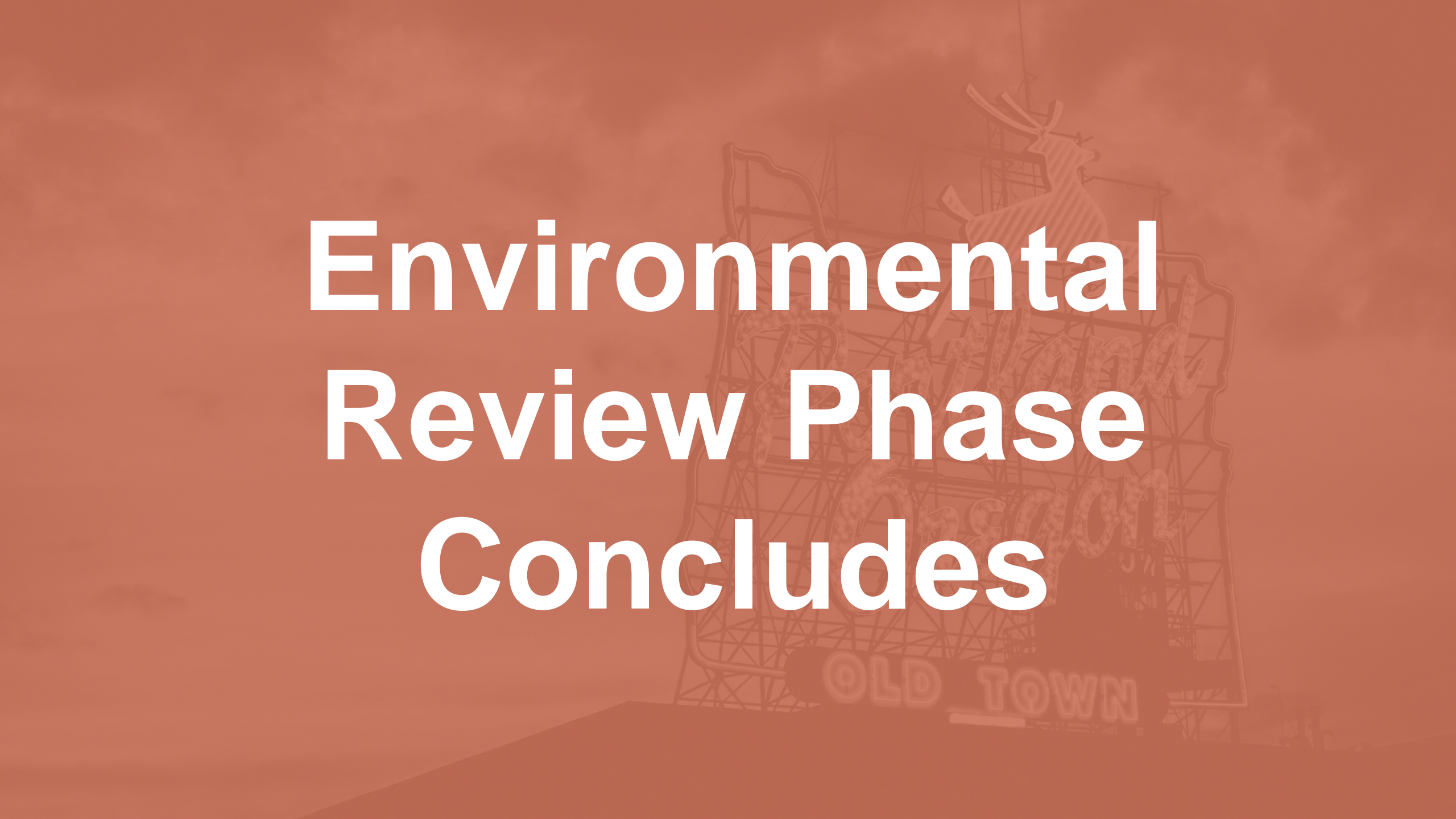


Project location and regional emergency transportation routes



Project Timeline



A large, ornate neon sign for 'Old Town' is the central focus, set against a hazy, reddish-brown background. The sign features a map of Oregon with a cowboy silhouette on top, and the words 'OLD TOWN' at the bottom. The text 'Environmental Review Phase Concludes' is overlaid in large, white, bold letters.

Environmental Review Phase Concludes

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



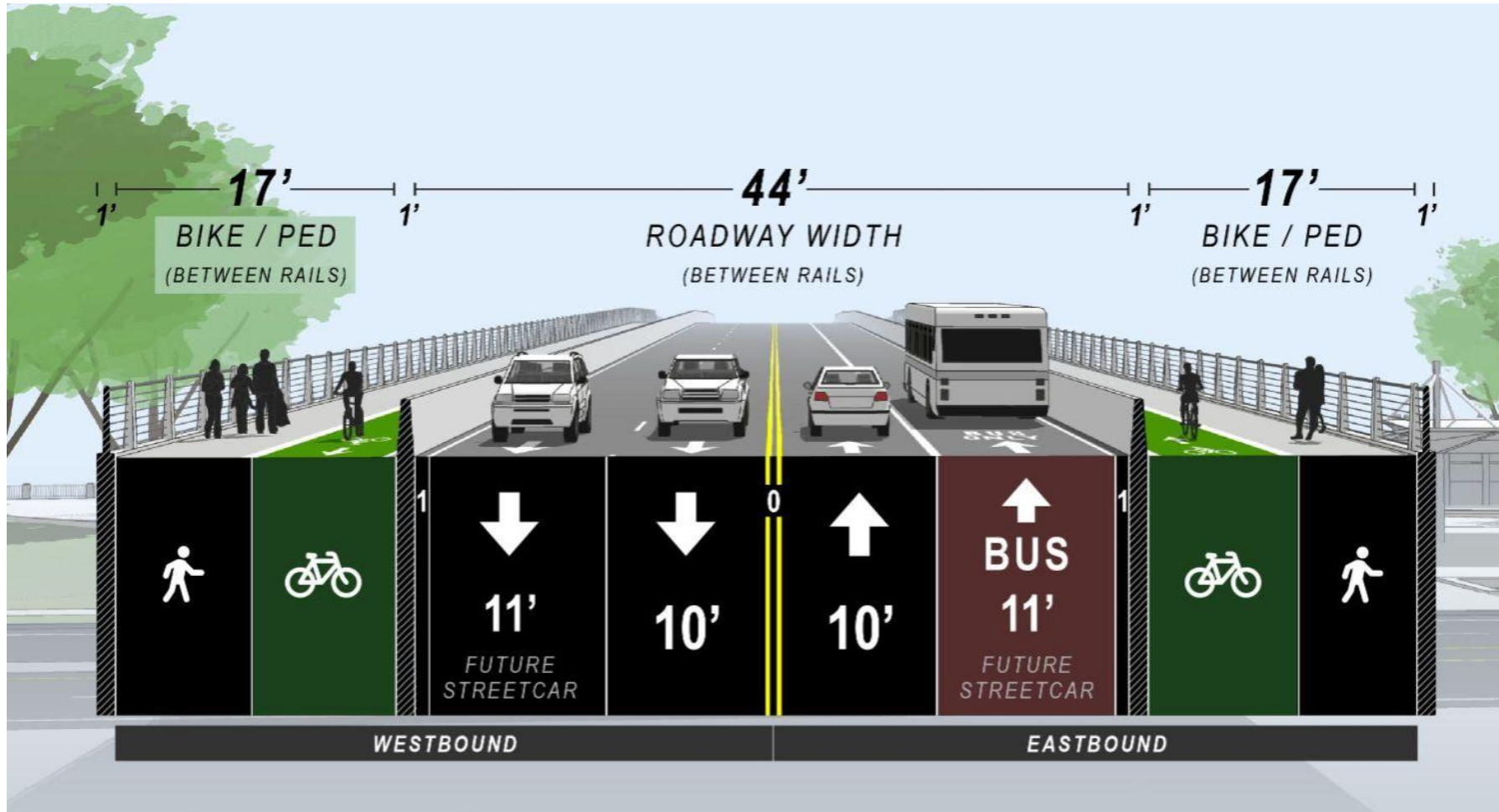
Preferred Alternative

CLOSE BRIDGE & DETOUR TRAFFIC DURING CONSTRUCTION



Preferred Alternative

TYPICAL CROSS SECTION





Design Phase

Kickoff

Design and Construction Timeline

★ We are here



Selection of Bridge Type



Cable Stay: Inverted Y



What is Envision?

- Assists public and private agencies through a holistic framework and rating system, examining sustainability and resiliency for all types of civil infrastructure.
- Addresses climate change, public health needs, environmental justice, and economic recovery

Quality of Life – 14 credits

Wellbeing, Mobility, Community

Addresses a project's impacts on communities, from the health, wellbeing, and equity of individuals to that of the larger social fabric.



Leadership – 12 credits

Collaboration, Planning, Economy

Rewards communication, collaboration, teamwork, leadership, and commitment to sustainability. Also rewards meaningful stakeholder engagement and lifecycle economic evaluation.



Resource Allocation – 14 credits

Materials, Energy, Water

Broadly concerned with the quantity, source, and characteristics of the resources needed to build infrastructure and keep it running.



Natural World – 14 credits

Siting, Conservation, Ecology

Addresses how projects are located within and affect the natural world and ecosystem services. Rewards projects that minimize negative impacts and those that protect and restore habitats.



Climate & Resilience – 10 credits

Emissions, Resilience

Focuses on minimizing emissions that exacerbate climate change and magnify short- and long-term risks; ensures projects are resilient and contribute to resilient communities.



How is EQRB is meeting Envision goals?



Sustainability Features of the New Burnside Bridge

- Improve Community Quality of Life
 - Enhance Public Health and Safety
 - Improve Community Mobility and Access
 - Enhance Public Space and Amenities
 - Provide Effective Leadership and Commitment
 - Provide for Stakeholder Involvement
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- Improve Construction Safety
 - Plan for Long-Term Monitoring & Maintenance
 - Use Recycled Materials
 - Reduce Construction Waste
 - Preserve Water Resources



Mode Split / Mitigation / Workforce Efforts

Encourage Sustainable Transportation

- High Quality, Safe and Comfortable Shared Ped/Bike Facilities
- Ped volumes projected to double / Bike to increase by 69%
- One overall lane removed; anticipating traffic volume reduction

Mitigating Wildlife & Air Quality Impacts

- Protect Surface and Groundwater Quality – 3.4k sqft of riparian areas on east side
- Construction means and methods to protect migrating wildlife – turbidity and bubble curtains
- Implementing Sustainable Materials – Geo-polymer concrete, recycled steel
- Greenhouse Gas Emissions – renewable & clean diesel heavy equipment

DBE / Workforce

- Develop workforce of disadvantaged communities – local zip codes by 23%





Questions?

An aerial photograph of a city bridge spanning a river, with a blue overlay. The bridge has a prominent tower structure. In the background, a city skyline with various buildings is visible. A car is driving on the bridge.

Thank you