



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

BETTER – SAFER – CONNECTED

October 28, 2019

Policy Group – Agenda Meeting #6

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|------------------|---|
| Project: | Earthquake Ready Burnside Bridge |
| Subject: | Policy Group Meeting #6 |
| Date: | October 28, 2019 |
| Time: | 3:00 p.m. to 5:00 p.m. |
| Location: | Multnomah County Building, Board Room, 501 SE Hawthorne Blvd. |

POLICY GROUP MEMBERS

Chair Deborah Kafoury, Multnomah County
 Co-Chair Commissioner Jessica Vega Pederson, Multnomah County
 Brendan Finn, Oregon Governor Kate Brown’s Office
 Chris Warner, City of Portland
 Councilor Cate Arnold, City of Beaverton
 Councilor Karylinn Echols, City of Gresham
 Doug Kelsey, TriMet
 Grace Stratton, U.S. Senator Wyden’s Office
 Kari Herinckx, U.S. Senator Merkley’s Office
 Justin Douglas, Prosper Portland
 Rian Windsheimer, ODOT Region 1
 Liv Brumfield, U.S. Representative Blumenauer’s Office
 Sarah Baessler, U.S. Representative Bonamici’s Office
 Councilor Craig Dirksen, Oregon Metro
 Representative Barbara Smith Warner, OR State Legislature
 Senator Kathleen Taylor, OR State Legislature
 Linda Swann, FHWA Oregon (*Ex-Officio Member*)

PROJECT TEAM MEMBERS

Megan Neill, Multnomah County
 Ian Cannon, Multnomah County
 Mike Pullen, Multnomah County
 Heather Catron, HDR
 Steve Drahota, HDR
 Jeff Heilman, Parametrix
 Allison Brown, JLA
 Sarah Omlor, EnviroIssues

ADDITIONAL INVITES

Susan Lindsay, Community Task Force Representative
 Peter Finley Fry, Community Task Force Representative

Purpose:

1. Provide an update on the project progress since last meeting
2. Share input received from summer/fall outreach efforts
3. Seek approval on the Range of Alternatives
4. Seek approval on the Evaluation Criteria

Agenda:

| Time | Session | Presenter/Lead |
|-----------|---|--|
| 3:00 p.m. | Welcome and Introductions | Allison Brown |
| 3:05 p.m. | Opening Remarks | Chair Kafoury, Co-Chair Vega Pederson |
| 3:10 p.m. | Public Comment <i>Meeting observers are welcome to provide comment at this meeting. Time limits will be determined by number of people desiring to make comment.</i> | Allison Brown |
| 3:30 p.m. | Project Update <ul style="list-style-type: none"> - Working / Focus Groups - Stakeholder Briefings - Upcoming Board of County Commissioners Meeting - Issuing Notice of Intent and Formal Scoping | Steve Drahota Mike Pullen |
| 3:40 p.m. | Summer/Fall Outreach – What We Heard <ul style="list-style-type: none"> - Key Activities - What We Heard - Who We Heard From - Next Steps and Winter Outreach | Mike Pullen |
| 3:55 p.m. | Alternatives Refinement <ul style="list-style-type: none"> - Range of Alternatives for Study and Associated Cross Sections - Traffic Management Options CTF Recommendation <u>Policy Group Approval:</u> <ul style="list-style-type: none"> - <i>Range of Alternatives moving forward with associated cross sections and traffic management options for study</i> | Steve Drahota Peter Finley Fry Allison Brown |
| 4:30 p.m. | Evaluation Criteria Update <ul style="list-style-type: none"> - CTF Development and Agency Review CTF Recommendation <u>Policy Group Approval:</u> <ul style="list-style-type: none"> - <i>Evaluation Criteria to inform selection of a Preferred Alternative</i> | Jeff Heilman Susan Lindsay Allison Brown |
| 4:50 p.m. | Next Steps and Closing Remarks <ul style="list-style-type: none"> - Future Committee Meetings | Allison Brown |
| 5:00 p.m. | Adjourn | All |



Policy Group Meeting #6

Department of Community Services
Transportation Division

October 28, 2019

Agenda

1. Welcome & Introductions
2. Opening Remarks
3. Public Comment
4. Project Update
5. Summer/Fall Outreach
6. Alternatives Refinement Recommendation
7. Evaluation Criteria Recommendation
8. Next Steps





Project Update

Recent and Upcoming Activities

- **Working/Focus Groups**
 - Seismic Design Criteria
 - Multi-Modal/Transportation
- **Cross Sections**
- **Stakeholder Briefings**
- **Upcoming Board of County Commissioners Meeting**
- **Issuing Notice of Intent and formal scoping**



Project Update

Funding Plan

- **Potential Funding Sources**

- County Vehicle Registration Fee (fund Planning, Design, Construction Phases)
- Regional Metro GetMoving2020 bond measure (Construction Phase)
- State/Federal (Construction Phase)

- **Multnomah County VRF**

- Currently \$19/year (lowest of 3 Metro counties)
- Proposed: raise by \$37/year
 - County Board vote 11/14/2019
 - Effective 1/1/2021
- Dedicated to County's Willamette River bridges
- New \$ targeted for Burnside Bridge



Summer/Fall Outreach

Key Engagement Activities

Briefings

- 20 directly impacted stakeholders
- 28 community/agency organizations

Multi-Lingual Outreach

- 6 focus groups (*Chinese, Vietnamese, Arabic, Spanish and Japanese*)
- 182 participants

Tabling

- 4 events

Online Open House and Survey

- > 2,300 unique visits
- > 800 survey responses

Social Media

- 31 posts and 2 sponsored posts

E-newsletters and News Release

- 2 e-newsletters
- 2 news releases



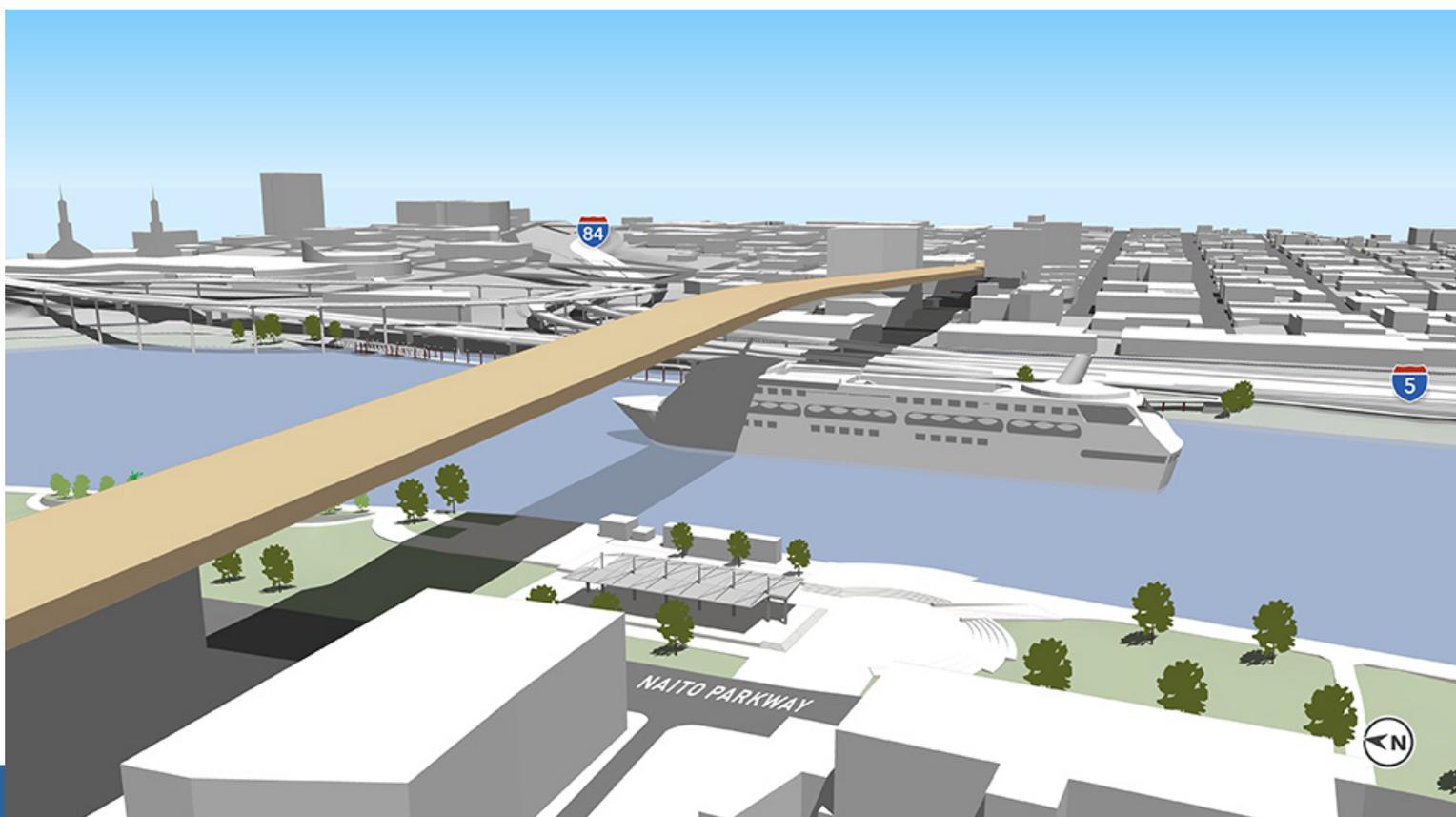
Summer/Fall Outreach

Early Results – What we're hearing...

Bridge Alternatives

Question: *Do you agree with removing the high fixed Bridge for further consideration?*

> 80% agree the High Fixed Bridge alternative should not move forward



Summer/Fall Outreach

Early Results – What we’re hearing...

Bridge Alternatives

Question: *Do you have any comments on the bridge alternatives?*



Enhanced Seismic Retrofit

**Replacement:
Movable (In-Kind)**

**Replacement:
Couch Connection**

**Replacement:
High Fixed**

- Favored by some for perceived lower cost
- Doesn't provide the additional width for pedestrians and bikes like replacement alternatives

- Favored by some for providing more street space for all users (emphasis on cyclists and pedestrians)
- Smaller footprint compared to Couch Connection

- Favored by some for improving the current, tight S-curve

- Many said its too long, tall and expensive; would disrupt and impact local community, access and livability
- A minority favor it for avoiding bridge lifts or would like more information

Most Common Themes:

- **Support for replacement bridge alternatives**
- **Active and public transportation**
- **Safety** for all travelers
- **Traffic** and accommodating future growth
- **A growing local economy and reduce project costs**
- Smaller impacts to the **natural and built environment** by using existing bridge

Summer/Fall Outreach

Early Results – Key Themes

Street Space (Cross Sections)

Question: *Do you have any comments about the street spaces presented?*

Key Themes:

- Protected, active (bike/ped) lanes
- Encourage active and public transit
- Consider bus-only lanes in both directions
- Support for added width
- Interest in lane allocations

“The motorized traffic lanes should set aside dedicated lanes for transit which carries far more people.”

“Replacement alternatives looks best. I like the division of cars and people.”

“More width requested to accommodate grade-separated bike lanes. This will encourage biking and walking, especially for the 2035 Plan.”



Early Results – Key Themes

Traffic Management

Question: *What should we consider as we analyze these traffic management options during construction?*

Key Themes:

- Impacts to pedestrians, cyclists and transit
- Consider transit-only bridge
- Save time and money, detour to other bridges
- Temporary bridge seems necessary, concern for traffic impacts

“I know it's a pain when past Bridges were shut down, thinking back to the Hawthorne, but I still think that's a better alternative to adding \$100mil to the project cost.”

“A temporary bridge is probably necessary. A temporary bridge must accommodate cyclists and pedestrians.”



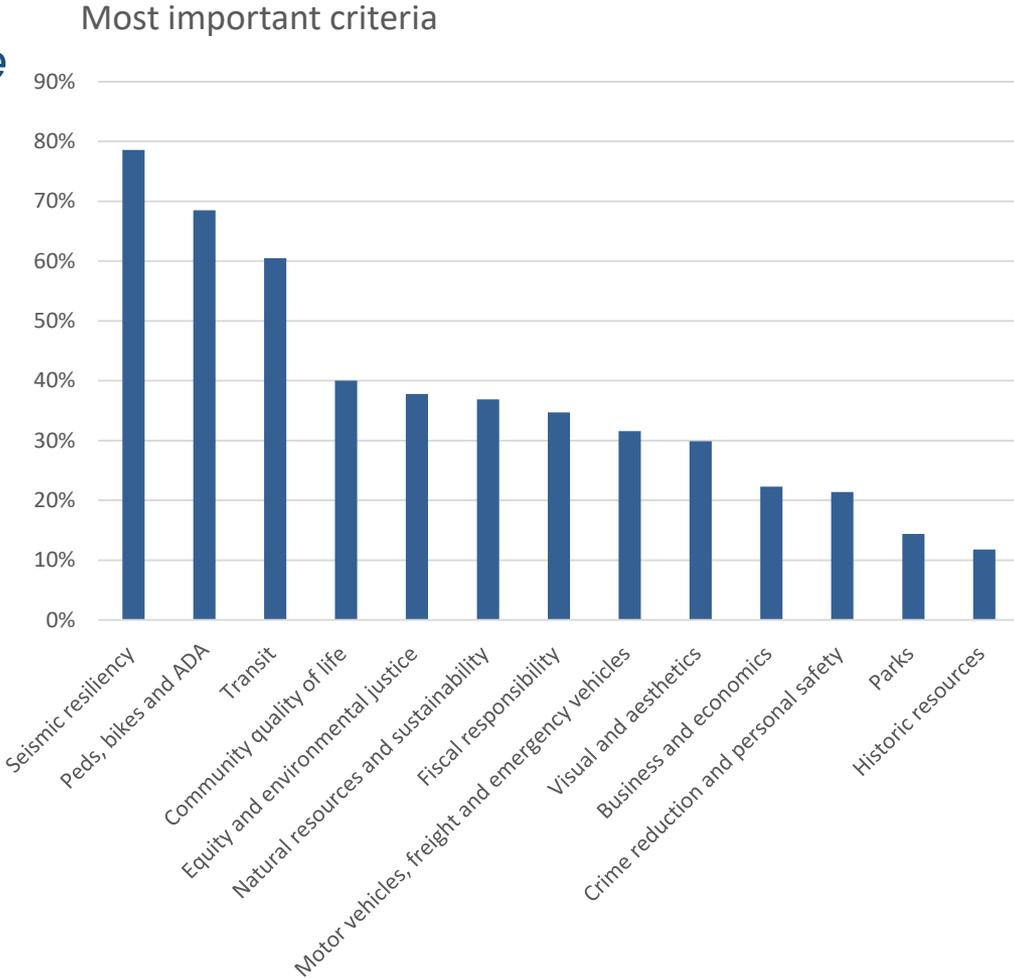
Summer/Fall Outreach

Early Results – Key Themes

Draft Criteria

Question: *Which criteria topics are of most importance to you (chose top five)?*

- **Seismic**
- **Peds, Bikes and ADA**
- **Transit**
- **Community Quality of Life**
- **Equity and Environmental Justice**
- **Natural Resources and Sustainability**



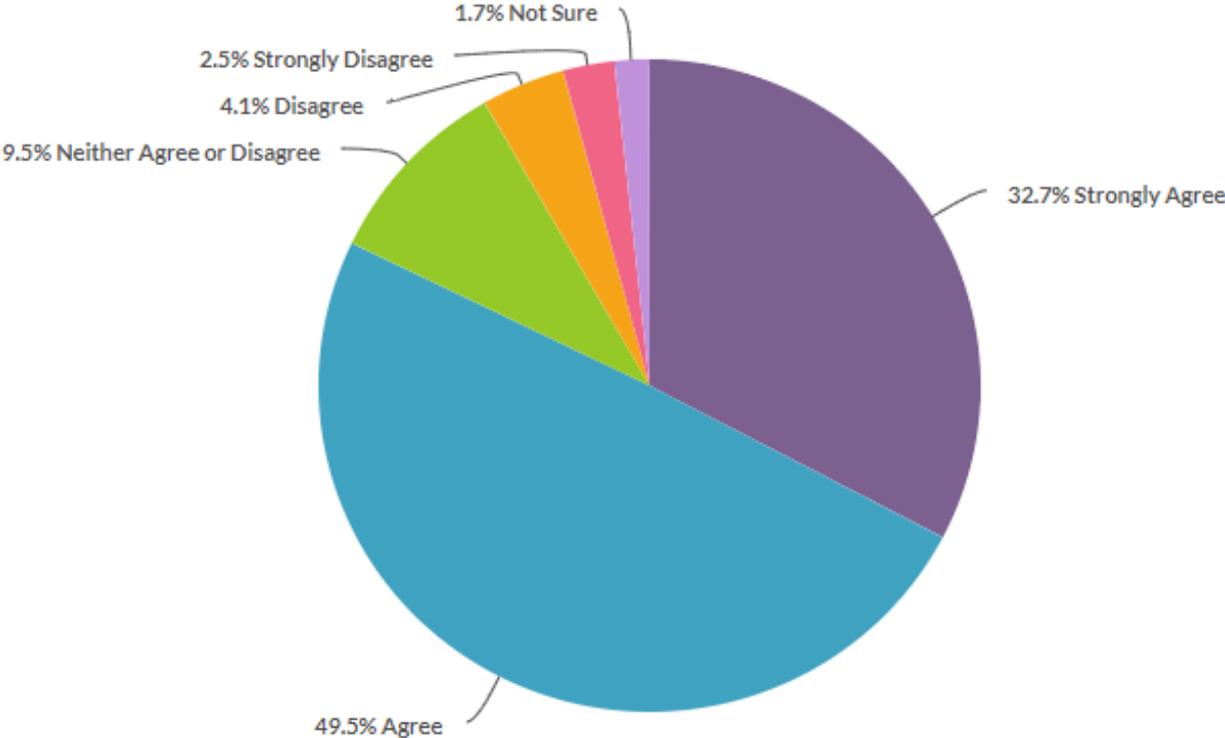
Summer/Fall Outreach

Early Results – Key Themes

Draft Criteria

Question: *Do you agree with the list of evaluation criteria topics?*

> 80% agree with the draft evaluation criteria



Summer/Fall Outreach

Early Results – Key Themes

Draft Criteria

Question: *Is there anything missing or that we should consider in these criteria?*

Topics that came up the most:

1. Bike/Ped/ADA
2. Motor vehicles
3. Transit
4. Natural resources and sustainability
5. Visuals and aesthetics
6. Parks
7. Fiscal responsibility
8. Equity/EJ
9. Crime reduction and personal safety
10. Seismic resiliency
11. Historic resources

Transit: *“The criterion regarding transit does not seem to reflect the need to enhance transit services. The term “access,” is very weak. Words like “efficiency” and “convenient” convey a stronger value toward transit.”*

Seismic: *“How long has Portland had bridges? How many times during their existence have Portland bridges been damaged by earthquakes of any size? How can we be even relatively sure that a new “seismically safe” bridge wouldn't also fail during a major earthquake?”*



Summer/Fall Outreach

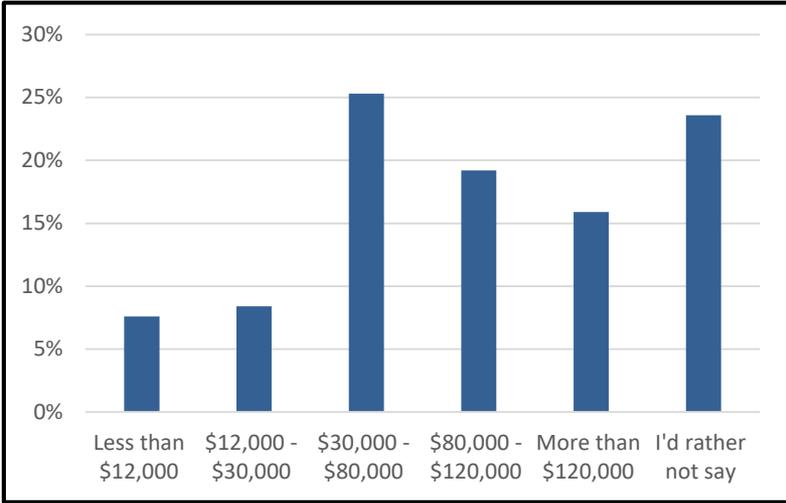
Demographics

- ~ 2,300 unique visits
- ~ 800 survey responses

Travel mode of survey participants

- Driving **40%**
- Biking **30%**
- Transit **14%**
- Walking **12%**

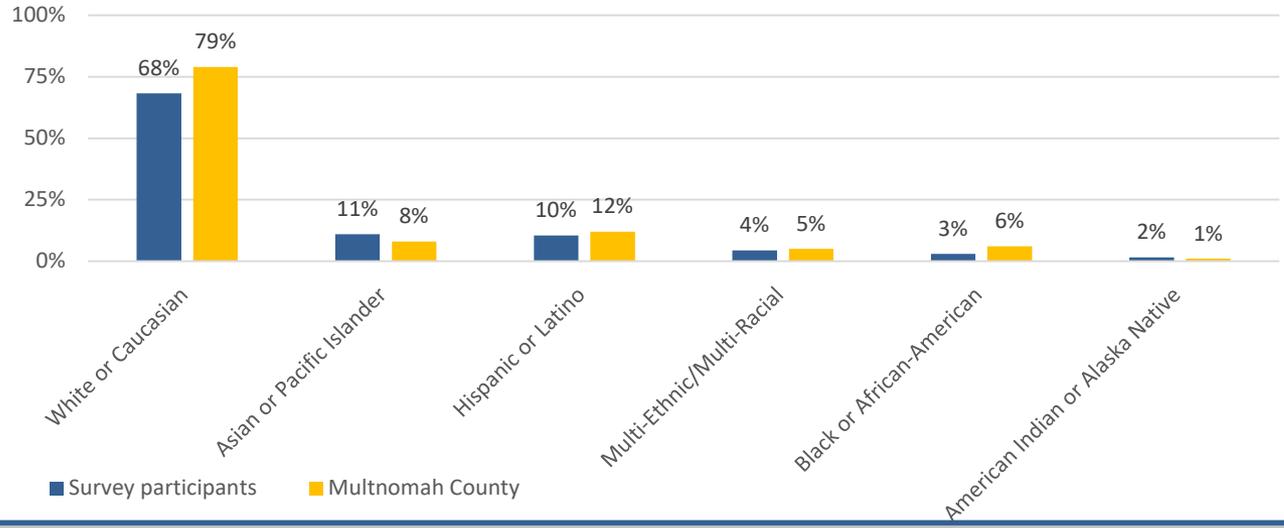
Household Income



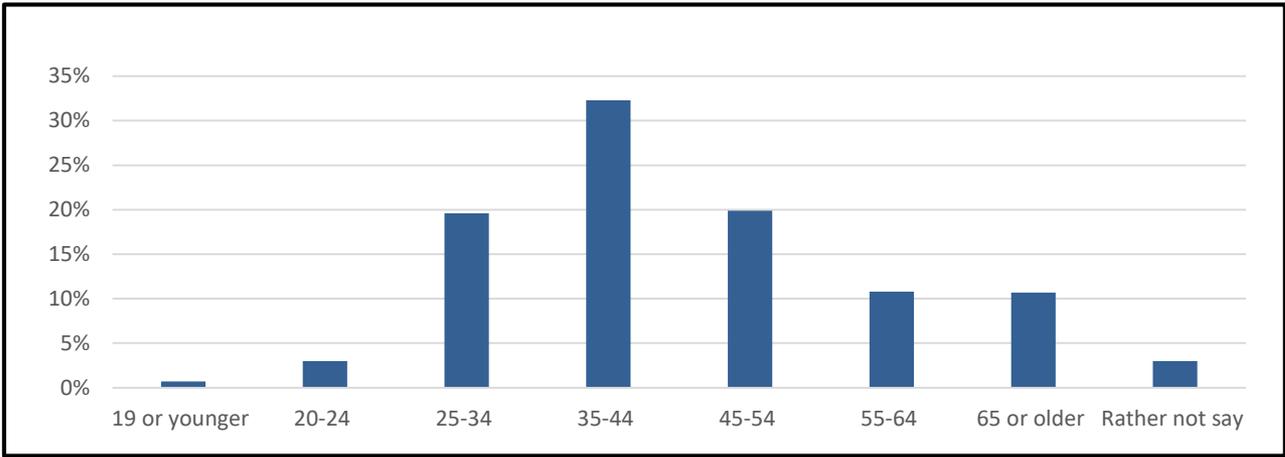
Summer/Fall Outreach

Demographics

Race/ Ethnicity



Age





Range of Alternatives for Policy Group Approval

RANGE OF ALTERNATIVES:

No-Build Alternative

3 Build Alternatives

- Cross Sections
- Traffic Management Options



No-Build Alternative

Includes:

- Planned/Programmed projects
- Other reasonably foreseeable changes (e.g., population, land use, climate)

Two scenarios within No-Build:

- **Pre-earthquake** – transportation operations and other conditions
- **Post-earthquake** – transportation operations/conditions, emergency operations, post-disaster recovery



Alternative Refinements

3 Build Alternatives

1) Enhanced Seismic Retrofit



2) Replacement: Movable Bridge



3) Replacement: Movable Bridge with Couch Connection



Dismiss High Fixed Bridge from Further Study

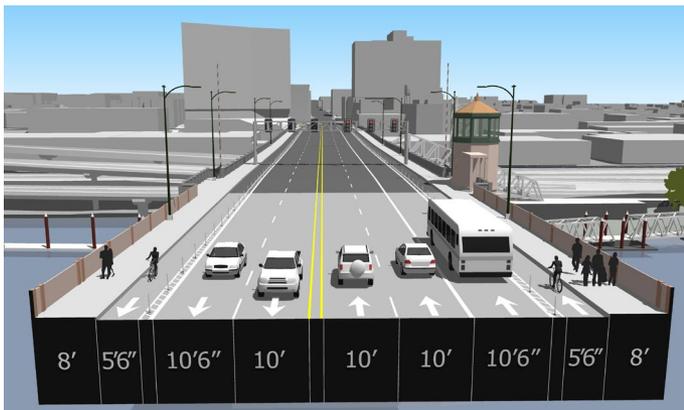


Alternative Refinements

3 Build Alternatives: Cross Sections

1) Enhanced Seismic Retrofit

A) Eastbound BAT

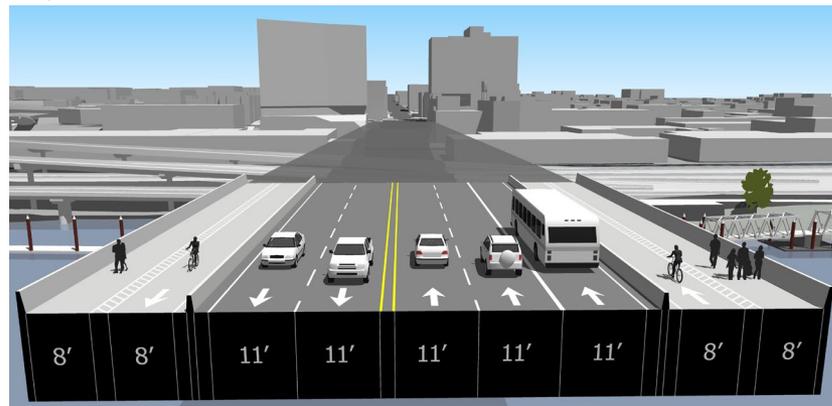


B) Eastbound and Westbound BAT

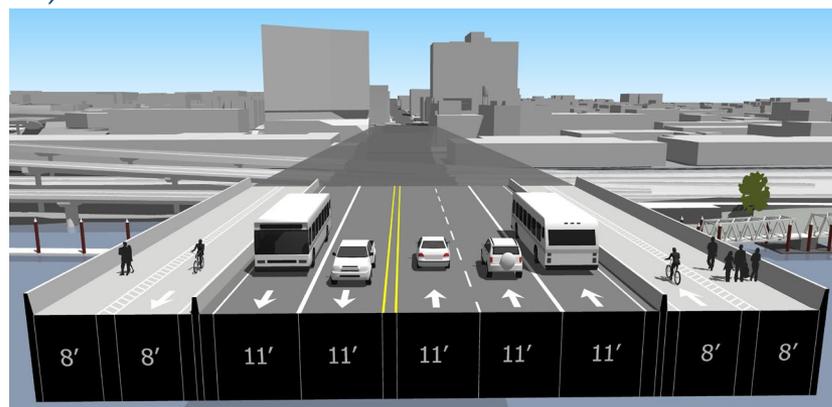


2) Replacement: Movable Bridge 3) Replacement: Couch Connection

A) Eastbound BAT



B) Eastbound and Westbound BAT



*BAT = Business Access Transit (Bus Only Lane)
*All Build Alternatives are designed to be Streetcar-ready

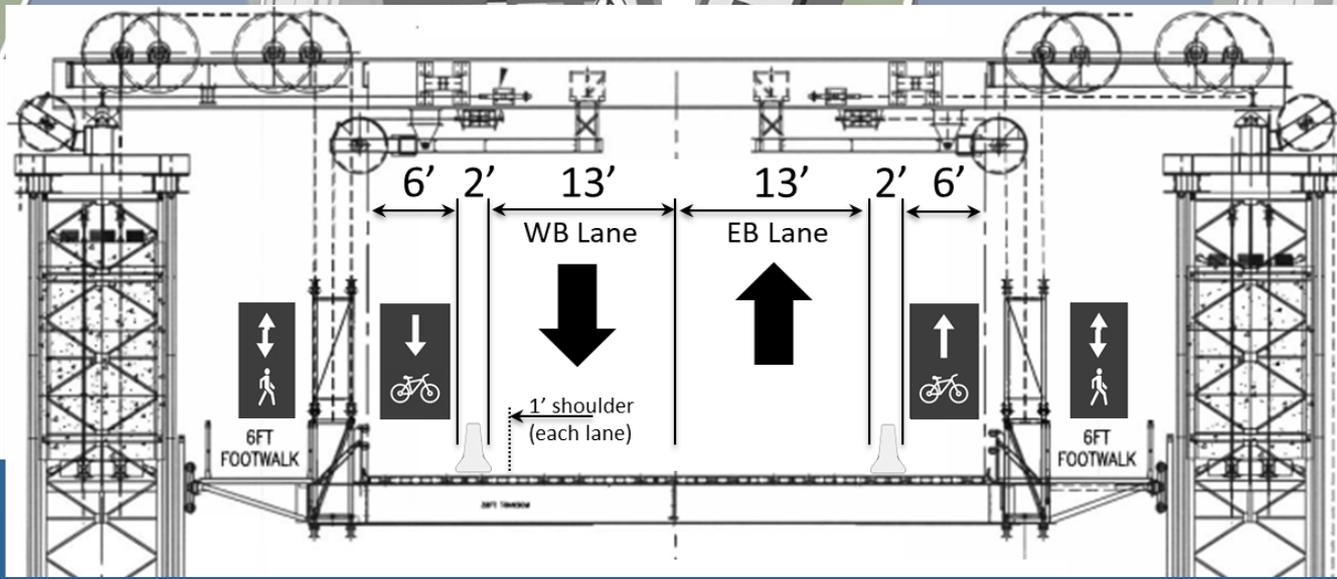
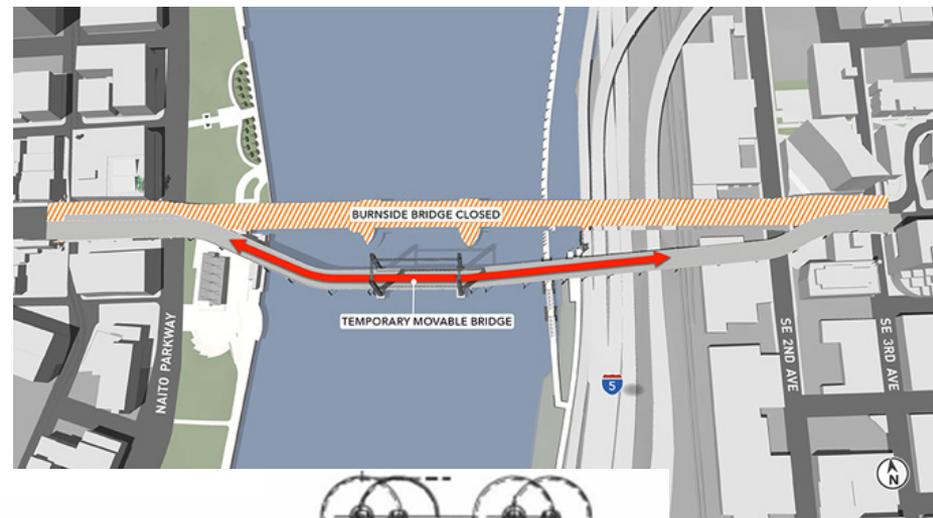
Alternative Refinements

3 Build Alternatives: Traffic Management

Traffic management options for study with each Build Alternative:

Full Bridge Closure

Temporary Movable Bridge

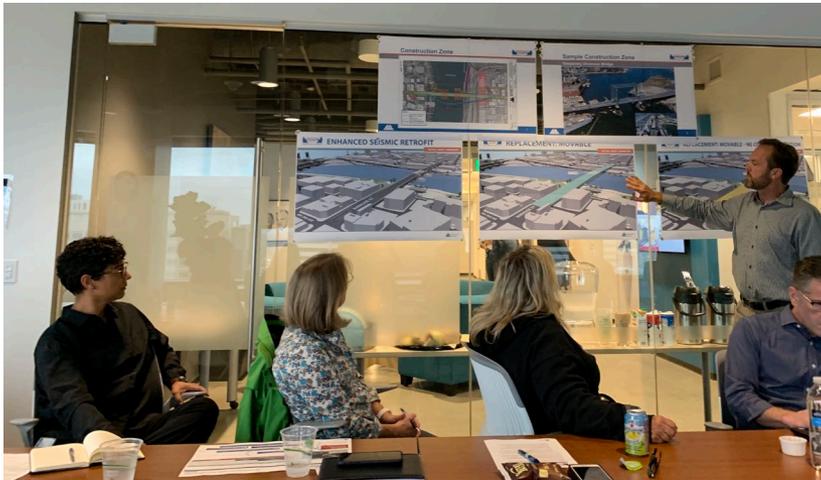




***Do you approve this Range of Alternatives,
including the associated cross sections and
traffic management options?***

Evaluation Criteria

Recommendations from Agency Input



Evaluation Criteria

Recommendations from CTF

| Criteria Topics | |
|-------------------------------------|--|
| Seismic Resiliency | Historic Resources |
| Community Quality of Life | Visual and Aesthetics |
| Equity and Environmental Justice | Natural Resources, Climate Change and Sustainability |
| Crime Reduction and Personal Safety | Pedestrians, Bicyclists and People with Disabilities |
| Business and Economics | Motor Vehicles, Freight and Emergency Vehicles |
| Park and Recreation Resources | Transit |
| Fiscal Responsibility | |

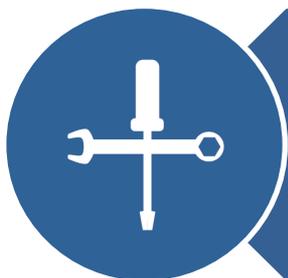


Evaluation Criteria

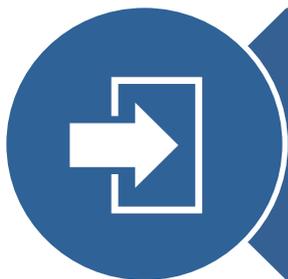
Guiding Principles



Measurable at the level of design and information that will be available in this step



Help differentiate alternatives



Help inform the evaluation of alternatives and identification of a preferred alternative



Policy Group Approval

Evaluation Criteria



Do you approve the Evaluation Criteria to inform selection of a Preferred Alternative?



Next Steps and Closing Remarks

- 11/14: County Board vote on Notice of Intent and VRF first reading
- 12/5: VRF second reading
- Next CTF meeting:
 - December – *if needed*
 - February 2020
- Winter outreach planning
- Next Policy Group meeting:
 - July 2020



Thank you!



Stakeholder Briefings Tracking Log

| Date | Stakeholder (Org/Affiliate) | Location / Time | Status |
|----------------------------------|---|---|-----------|
| COMPLETED | | | |
| 22-May | Central Eastside Industrial Council (CEIC) Transportation and Parking Advisory Committee | 4:30pm @ PCC CLIMB Center (1626 SE Water Avenue Room 102) | Done |
| 31-May | Burnside Skatepark | 10:30am @ Multnomah Building (501 SE Hawthorne Blvd) | Done |
| 7-Jun | Coalition of Communities of Color | 9am @ Multnomah Building (501 SE Hawthorne Blvd) | Done |
| 11-Jun | Templeton Property Management; RJ Templeton building | 3:30pm @ Templeton Building (9 SE 3rd Ave, Suite 100) | Done |
| 13-Jun | Beam Development (Eastside Exchange Building) | 9am @ Beam Development (75 SE Yamhill St, Suite 201) | Done |
| 13-Jun | Pacific Coast Fruit Company | 11am @ Pacific Coast Fruit (201 NE 2nd Ave #100) | Done |
| 17-Jun | FPI Management; The Yard building | 1:30pm @ The Yard (22 NE 2nd Ave) | Done |
| 19-Jun | Oregon Nikkei Legacy (Japanese Historical Plaza) | 10am @ Nikkei Office (121 NW 2nd Ave) | Done |
| 10-Jul | Portland Saturday Market | 3:30pm @ Skidmore Fountain (corner of SW 1st and SQ Ankeny) | Done |
| 11-Jul | AMR | 2pm @ AMR (1 SE 2nd Ave) | Done |
| 12-Jul | Gerding Edlen; 5 MLK building | 11am @ Gerding Edlen Office (1477 NW Everett St) | Done |
| 16-Jul | University of Oregon | 1pm @ 70 NW Couch St | Done |
| 17-Jul | Portland Rescue Mission | 11am @ PRM (13207 NE Halsey St) | Done |
| 18-Jul | Portland Rose Festival | 10am @ PRFF (1020 SW Naito Pkwy) | Done |
| 18-Jul | Central City Concern | 2pm @ CCC Admin Office (232 NW 6th Ave) | Done |
| 23-Jul | Mercy Corps | 2:30pm @ Mercy Corps (45 SW Ankeny St) | Done |
| 30-Jul | Salvation Army - Female Emergency Shelter | 9am @ 30 SW 2nd Ave | Done |
| 31-Jul | Prosper Portland - Staff | 3pm @ Prosper Portland's Office (222 NW 5th Ave) | Done |
| 31-Jul | Rose City Transportation | 8:30am @ 201 NE 2nd Ave | Done |
| 1-Aug | Urban Development + Partners | 11:30am @ 116 NE 6th Ave | Done |
| 6-Aug | Portland Parks Board (subcommittee) | 8am @ City Hall (1221 SW 4th Ave) | Done |
| 6-Aug | Key Development | 3pm @ Multnomah Building (501 SE Hawthorne) | Done |
| 8-Aug | Coalition of Communities of Color | 10am @ 221 NW 2nd Ave, Suite 303 | Done |
| 12-Aug | East Multnomah County Transportation Committee | 3pm @ Gresham City Hall (1333 NW Eastman Pkwy, Gresham) | Done |
| 14-Aug | MultCo BPCAC | 6:30pm @ Multnomah Building (501 SE Hawthorne Blvd) | Done |
| 20-Aug | Portland Business Alliance | 12-1:30 @ 121 SW Salmon (Suite 1440) | Done |
| 22-Aug | Night Strike | 2pm @ Liberation Street Church (214 W Burnside St) | Done |
| 23-Aug | Native American Rehabilitation Association | 10am @ 1776 SW Madison St | Done |
| 27-Aug | CB Richard Ellis; Old Town Storage Building | 11am @ HDR (1050 SW 6th Ave) | Done |
| 3-Sep | MultCo Cascadia Preparedness Advocates Group | 9am @ Multnomah Building (501 SE Hawthorne Blvd) | Done |
| 4-Sep | Old Town Community Association | 6 @ University of Oregon (70 NW Couch St) | Done |
| 5-Sep | Portland Freight Advisory Council | 7-9am @ Portland City Hall (1221 SW 4th Ave) | Done |
| 5-Sep | Go Lloyd | 3:30 @ 700 NE Multnomah St - 3rd floor conference room | Done |
| 9-Sep | Historic Landmarks Commission | 1:30pm @ 1900 SW 4th Ave, Room 2500B | Done |
| 10-Sep | Portland Bike Advisory Committee | 6pm @ City Hall (1221 SW 4th Ave) | Done |
| 11-Sep | Lower Columbia Region Harbor Safety Committee | 2:15 @ Port of Portland (7200 NE Airport Way) | Done |
| 12-Sep | Pearl District Neighborhood Association | 6pm @ PNCA (511 NW Broadway) | Done |
| 12-Sep | Regional Public Information Officers | 10:30 @ Multnomah County Drainage District | Done |
| 13-Sep | Portland Parks Director | 1:30pm @ Congress Center (1050 SW 6th Ave, 5th floor, Room | Done |
| 17-Sep | Portland Pedestrian Advisory Committee | 6pm @ City Hall (1221 SW 4th Ave) | Done |
| 17-Sep | City Club's Earthquake Resilience Advocacy Committee | 3:30pm @ County Bridge Shop (1403 SW Water Ave) - Large | Done |
| 18-Sep | Kerns Neighborhood Association | 5:30pm @ Pacific Crest Community School (116 NE 29th Ave at | Done |
| 19-Sep | Portland Design Commission | 3:15pm @ 1900 SW 4th Ave, Room 2500B | Done |
| 20-Sep | MultCo DCHS | 11am @ Five Oak Building (209 SW 4th Ave) - First floor | Done |
| 24-Sep | Downtown Neighborhood Association | 6pm @ First Congregational Church (1126 SW Park Ave) | Done |
| 1-Oct | Getting There Together | 2:30pm @ HDR | Done |
| 3-Oct | Clackamas County Coordinating Committee | 6:45pm (Oregon City - location TBD) | Done |
| 3-Oct | WCCC Transportation Advisory Committee | 1:30-3pm @ Beaverton City Hall | Done |
| 7-Oct | Region 1 Area Commission on Transportation | 5:30-7:30pm @ R1 Headquarters (123 NW Flanders); Intro by | Done |
| 9-Oct | MultCo Sustainability Committee | 9-11am @ Multnomah Building, Room 635 | Done |
| 14-Oct | WashCo Coordinating Committee | 12-1:30pm @ Beaverton City Hall | Done |
| 18-Oct | Dr. Lucy Jones | 2pm @ TBD - near EcoTrust building | Done |
| 22-Oct | Downtown Neighborhood Association | 6pm @ First Congregational Church (1126 SW Park Ave) | Done |
| 24-Oct | The Yard/FPI Management | 10:30 @ The Yard Building | Done |
| 28-Oct | MultCo Disability Services Advisory Council | 12:30 @ Five Oak Building (209 SW 4th Ave) | Done |
| SCHEDULED | | | |
| 29-Oct | Metro Councilors (small group briefing) | TBD | Confirmed |
| 5-Dec | MultCo Aging Services Advisory Council | 3pm @ TBD | Confirmed |
| CONTACTED/IN-COORDINATION | | | |
| | Guerilla Development; Fair-Haired Dumbbell building | | Contacted |
| | Prosper Portland - Commission/Board | | Contacted |
| | Street Trust | | Contacted |
| | Native American Youth and Family Center | | Contacted |
| | Downtown Retail Council | | Contacted |
| | Neighbors West-Northwest Board | 6pm @ Oregon College of Oriental Medicine (75 NW Couch St) Cancelled - to be rescheduled in October. | Contacted |
| | Lloyd Community Association | | Contacted |
| | Voz | | Contacted |
| | Metro JPACT | | Contacted |
| | Union Pacific Railroad | | Contacted |
| | Portland Planning and Sustainability Commission | 9/10: 2:30pm @ 1900 SW 4th Ave, Suite 2500 Cancelled - to be rescheduled in early 2020 | Contacted |
| | East Portland Chamber of Commerce | | Contacted |
| | Willamette Riverkeeper Board | | Contacted |

The Earthquake Ready Burnside Community Task Force identified these evaluation criteria to help select a Preferred Alternative for the project. The criteria were developed through the CTF's shared interests and values and informed by input from the public and agencies.



1 SEISMIC RESILIENCY

- 1a.1 Maximize confidence in post-earthquake crossing operability and reparability.
- 1a.2 Maximize ability for all modes to use the crossing post-earthquake.
- 1a.3 Minimize risk that adjacent buildings could damage or block the bridge after a major earthquake, and minimize risk that crossing construction could lessen the seismic resilience of adjacent buildings.
- 1b.1 Minimize delay in achieving a seismically resilient crossing.



2 COMMUNITY QUALITY OF LIFE (INCLUDES INDIRECT LAND USE IMPACTS & COMMUNITY RESOURCES)

- 2a.1 Minimize long-term noise and light/shadow impacts.
- 2a.2 Minimize long-term impacts to community facilities and events under and near the bridge (e.g., Skatepark, Saturday Market, park festivals, parades, organized runs, etc).
- 2b.1 Minimize temporary impacts to community facilities and events under and near the bridge.



3 EQUITY & ENVIRONMENTAL JUSTICE (INCLUDES SOCIAL SERVICES)

- 3a.1 Minimize displacements of emergency beds.
- 3a.2 Maintain social service providers' long-term ability to provide current level of service and potential for enhancement.
- 3a.3 Avoid disproportionate adverse impacts to vulnerable and Environmental Justice communities.
- 3b.1 Minimize temporary impacts to social service providers.
- 3b.2 Avoid temporary disproportionate adverse impacts to vulnerable and Environmental Justice communities.
- 3b.3 Ensure that design and construction approach allow ample opportunities for DBE firms to be involved in the construction/contracting process.



4 CRIME REDUCTION & PERSONAL SAFETY

- 4a.1 Maximize personal safety and crime reduction by following principles of Crime Prevention Through Environmental Design (CPTED).



5 BUSINESS AND ECONOMICS

- 5a.1 Minimize business displacements and permanent access impacts.
- 5a.2 Support redevelopment potential consistent with local plans.
- 5b.1 Minimize temporary access impacts to businesses.
- 5b.2 Minimize temporary regional economic impacts.
- 5b.3 Minimize loss of economic benefits (includes businesses and charities) from temporary impacts to major community events under and near the bridge.



6 PARKS & RECREATION RESOURCES

- 6a.1 Minimize park displacements and adverse functionality impacts (include impacts to river recreation).
- 6b.1 Minimize temporary impacts to parks.



7 HISTORIC RESOURCES

- 7a.1 Minimize historic resource impacts.
- 7b.1 Minimize temporary impacts to historic resources.



8 VISUAL & AESTHETICS

- 8a.1 Minimize adverse impacts to existing views and view corridors.
- 8a.2 Maximize aesthetic experience for all users approaching, on, and under the bridge.
- 8a.3 Create opportunity for a crossing that provides an iconic/demonstrative visual experience.



9 NATURAL RESOURCES, CLIMATE CHANGE & SUSTAINABILITY

- 9a.1 Minimize impacts to water quality and flooding.
- 9a.2 Minimize impacts to fish and wildlife.
- 9b.1 Minimize temporary impacts to water quality and flooding.
- 9b.2 Minimize temporary impacts to air quality and green-house gas emissions.
- 9b.3 Minimize temporary impacts to fish and wildlife.
- 9b.4 Minimize resource consumption and waste production during construction.



10 PEDESTRIANS, BICYCLISTS & PEOPLE WITH DISABILITIES

- 10a.1 Maximize City's Vision Zero principles for safety and comfort for bicyclists, pedestrians, and other low-impact vehicles (e.g., scooters, skateboards).
- 10a.2 Maximize access/connectivity for bicyclists and other low-impact vehicles.
- 10a.3 Maximize access/connectivity for pedestrians and ADA.
- 10b.1 Minimize temporary travel time and access/connectivity impacts to bicyclists.
- 10b.2 Minimize temporary travel time and access/connectivity impacts to pedestrians.
- 10b.3 Maximize City's Vision Zero principles for safety and comfort for bicyclists, pedestrians, and other low-impact vehicles (e.g., scooters, skateboards).



11 MOTOR VEHICLES, FREIGHT & EMERGENCY VEHICLES

- 11a.1 Maximize safety for motor vehicles and freight.
- 11a.2 Maximize emergency service operations and responsiveness.
- 11b.1 Minimize temporary access and travel time impacts to freight and emergency vehicles.
- 11b.2 Minimize temporary safety impacts to motor vehicles, freight, and emergency vehicles.
- 11b.3 Minimize temporary access and travel time impacts to motor vehicles.



12 TRANSIT

- 12a.1 Maximize Streetcar readiness.
- 12a.2 Maximize bus accessibility.
- 12a.3 Minimize transit collision vulnerability.
- 12b.1 Minimize temporary impacts to transit access, safety, travel times, and ridership.



13 FISCAL RESPONSIBILITY

- 13a.1 Minimize total project cost.
- 13a.2 Minimize long-term maintenance needs/costs.

FUTURE TOPICS

While developing the draft criteria groups, the CTF identified a number of topics that cannot be adequately or fully evaluated with the level of design and information that will be available during the DEIS phase. These are listed below with the recommendation that they be applied in later project phases such as during design or construction:

- Seismic Resilience
 - Include equipment on bridge to create additional resilient functions after a major earthquake
- Personal Safety
 - Maintain a safe construction site
 - Implement design that minimizes risk of attempted suicide from the structure
- Ped, ADA, Bicyclists
 - Maximize pedestrian/bicycle aesthetic experience on the bridge
- Sustainability
 - Waste reduction and use of sustainable materials in design and construction.
 - Energy sustainability in design
- Navigation
 - Bridge lighting and signals do not adversely affect navigation safety
- Aesthetics
 - Bridge lighting does not increase night sky impacts
 - Provide a structure that instills a sense of community pride