MAGNOLIA BRIDGE PLANNING STUDY



PRESENTED TO THE COALITION FOR MAGNOLIA, QUEEN ANNE, & INTERBAY NEIGHBORHOODS APRIL 9, 2018





PROJECT PHASES

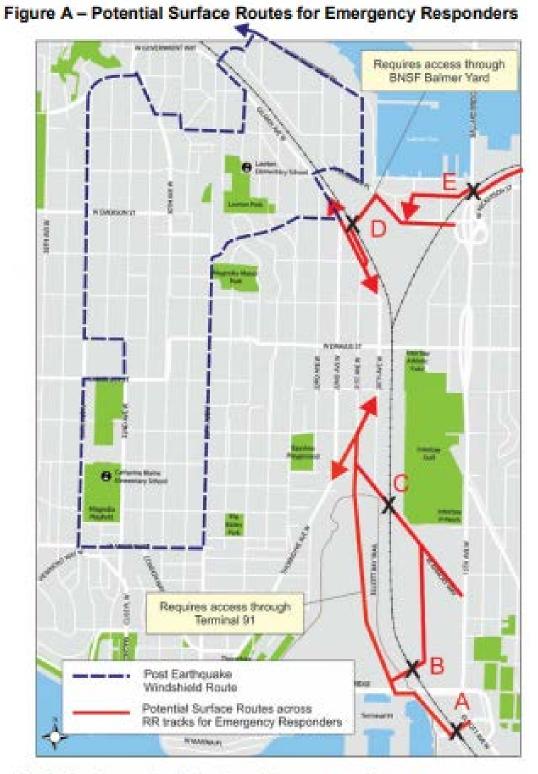
Magnolia Bridge - Traffic Maintenance During Bridge Closure

1) EMERGENCY BRIDGE CLOSURE TRANSPORTATION PLAN

✓ Guide the **movement of people and goods** between the Magnolia neighborhood and the 15th Ave W corridor **immediately following a catastrophic event** if one or more of the bridges serving Magnolia are closed.

2) SHORT-TERM CLOSURE TRANSPORTATION PLAN

✓ Improve the resilience of the transportation system in advance of a catastrophic or closure event, and help with recovery after an event. The plan focuses on the potential that the Magnolia Bridge—the most vulnerable of the bridges serving Magnolia—could be closed to all traffic until a permanent facility can be constructed.



X = Railroad crossing that will need temporary surface to allow a vehicle to cross.

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MAGNOLIA BRIDGE
PLANNING STUDY
FUNDED THROUGH THE
2015 MOVE SEATTLE LEVY

3) LONG-TERM PLANNING STUDY

➤ Develop a financially feasible permanent alternative replacing the functional needs served by existing Magnolia Bridge structure

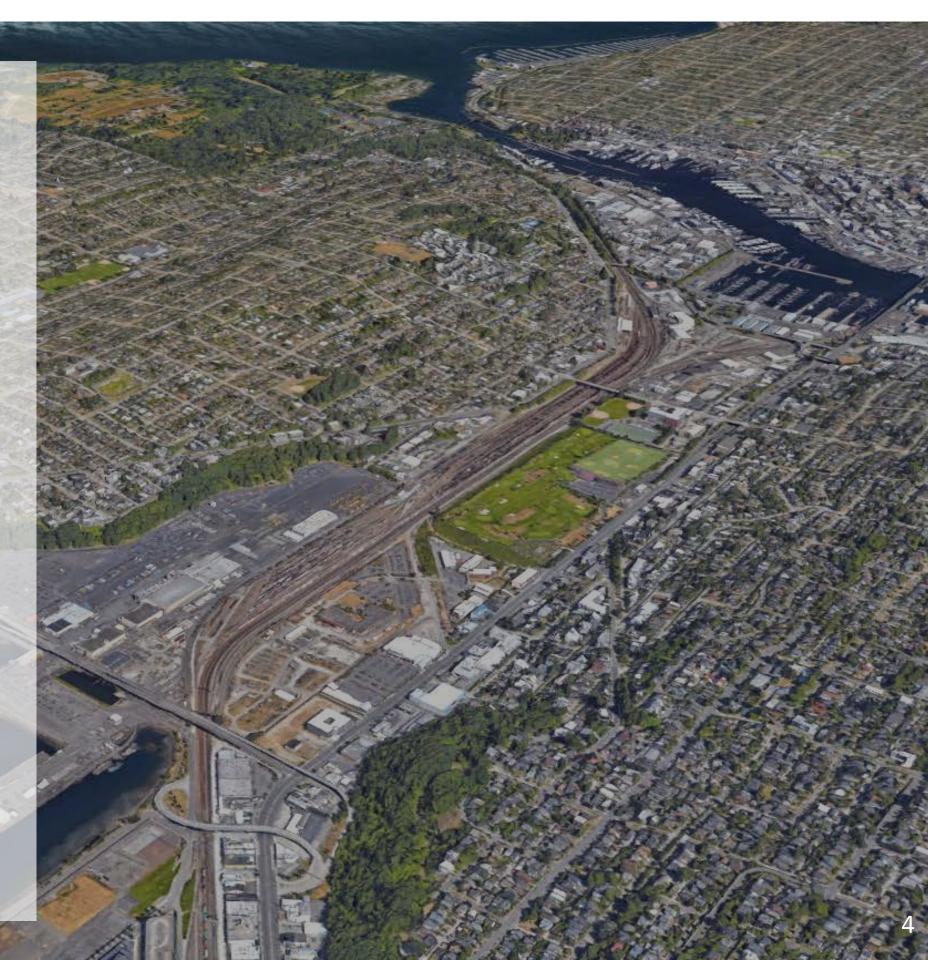
LONG-TERM PLANNING STUDY PURPOSE & GOALS

Mission:

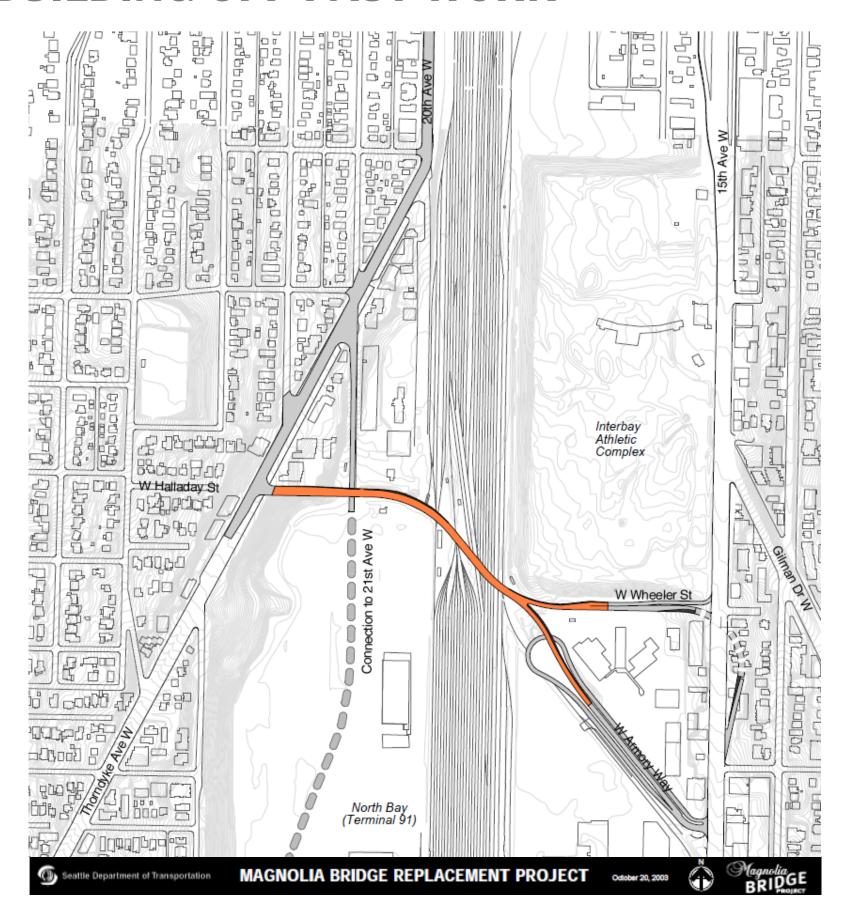
Develop an alternative that provides safe and efficient access to the Magnolia area that has stakeholder support and is financially feasible.

Project Goals:

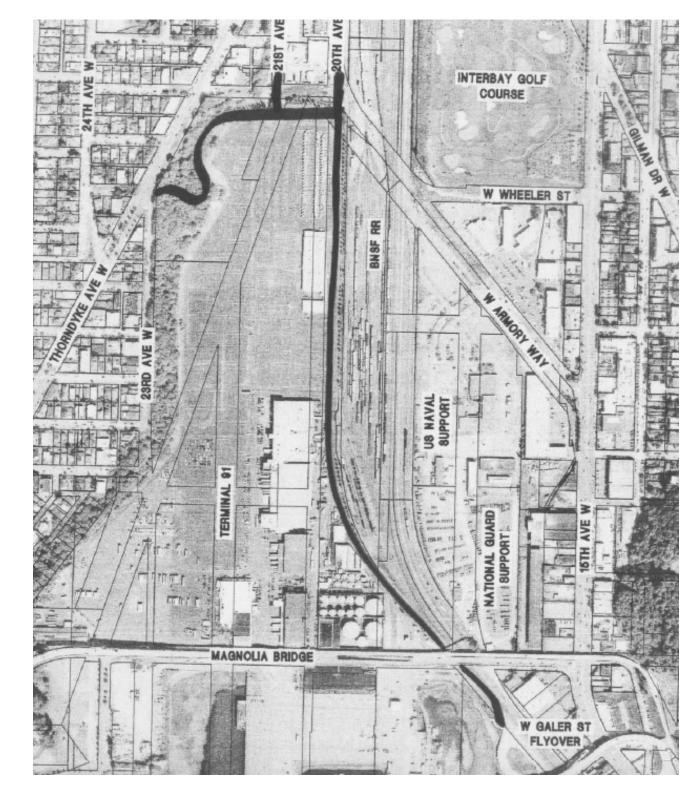
- Provide a safe route(s) to Magnolia.
- Provide reliable and redundant access to and from Magnolia.
- Any new route must be grade separated from the BNSF Mainline railroad tracks.
- Provide a route that will support Magnolia Village.
- Maintain or improve traffic flow on, and connections to, the 15th Avenue W corridor.
- Maintain access to the Smith Cove waterfront and improve connection between Magnolia and the Smith Cove waterfront.
- Maintain or improve access to Terminal 91.
- Improve the level of bicycle and pedestrian connections within and beyond the project area.
- Consider future ST3 light rail project when evaluating alternatives.
- Design an alternative that is financially feasible.
- Minimize or mitigate environmental impacts.
- Minimize disruption during construction.

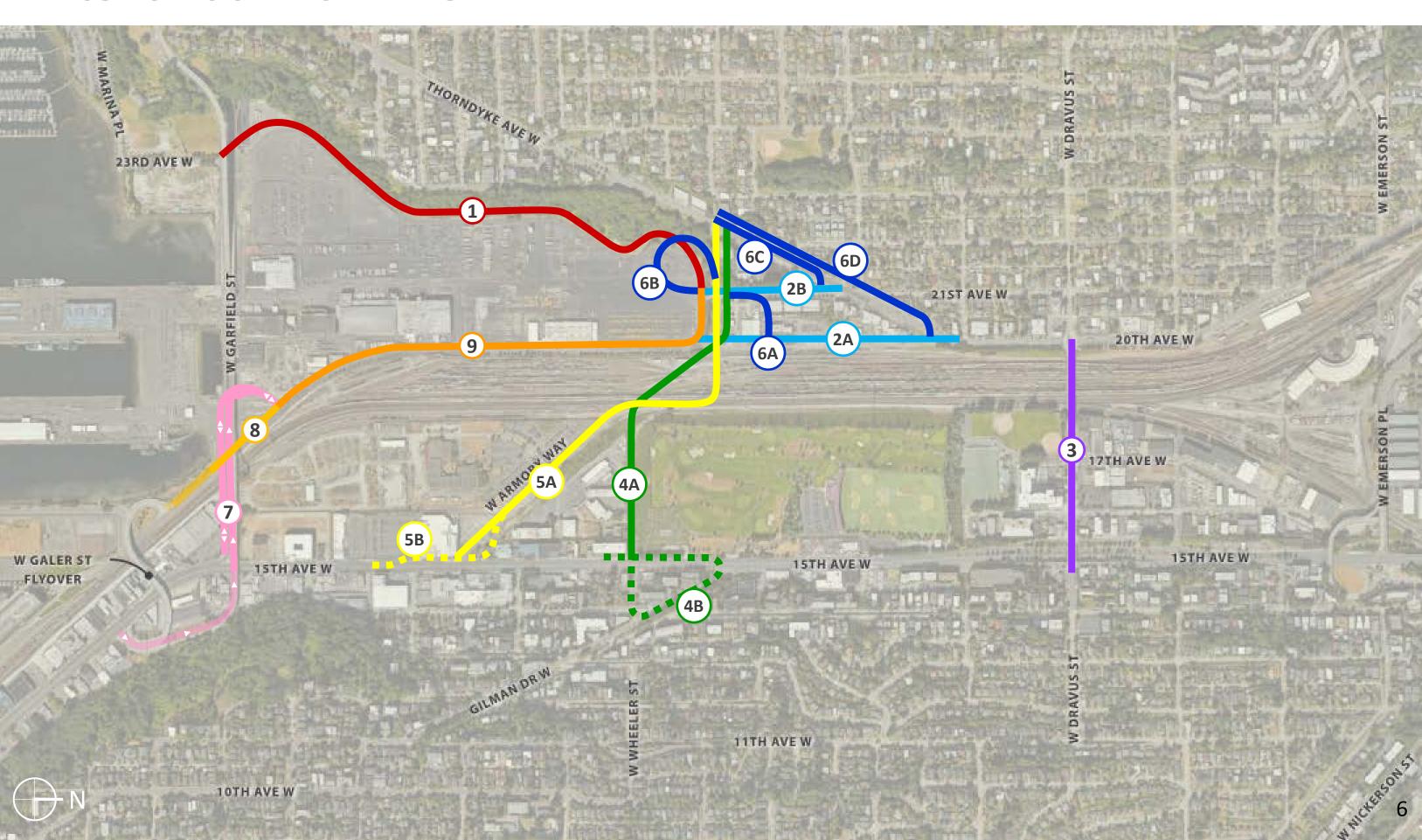


BUILDING OFF PAST WORK



















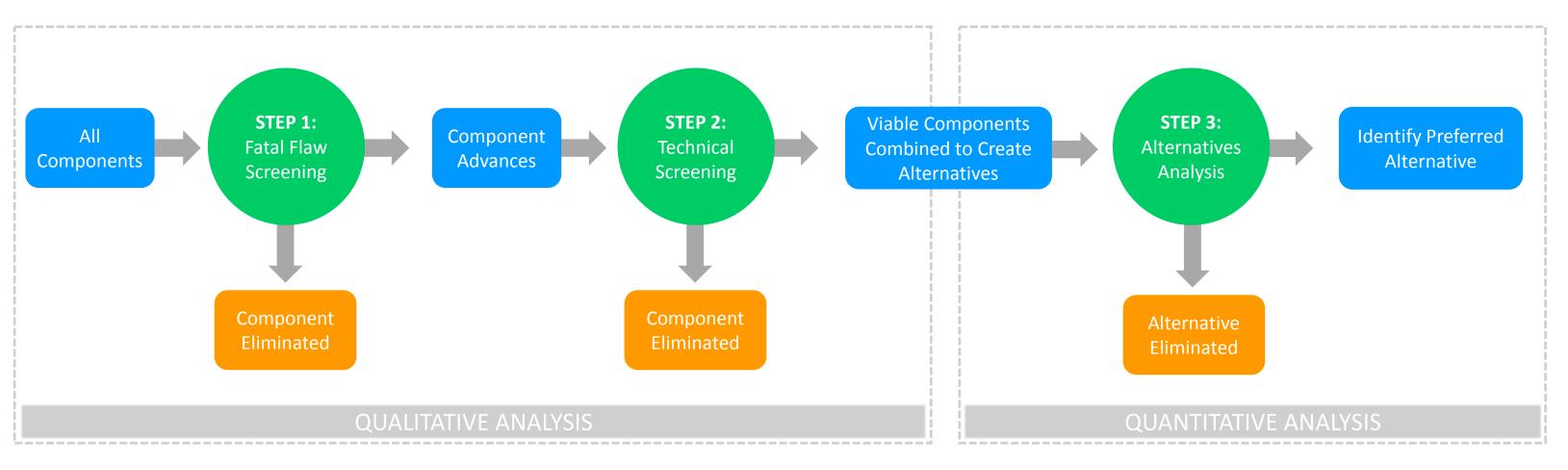








EVALUATION PROCESS



Fatal Flaw Criteria:

- Maintain access to the Smith Cove waterfront and improve connection between Magnolia and the Smith Cove waterfront
- Must be grade separated from the BNSF
 Mainline railroad tracks
- Maintain or improve access to Terminal 91 (T91)
- Must be financially feasible



Technical Screening includes:

- Traffic operational need
- Geometric feasibility



Alternative Analysis include:

- Traffic operations metrics (travel time, intersection delay, etc.)
- Cost Estimates
- Right-of-Way Impacts
- Construction Disruption and Duration

ALTERNATIVE ANALYSIS METRICS

Mobility and Connectivity

- Vehicular Access to and from:
 - Magnolia
 - Marina/Waterfront
 - Terminal 91
- *Traffic Flow on 15th Avenue*
- Bicycle and Pedestrian Connections
- Transit Access

Implementation Characteristics

- Project Cost
- Construction Duration and Impact
- Stakeholder Support



Environmental Impact

- Adjacent Land Use (Acquisition, Noise, and Visual)
- Sensitive Areas (Cultural, Historic, and Natural Resources)
- Natural Hazards (Steep Slopes and Seismic Susceptibility)

Other Considerations:

- Neighborhood Advisory Committee (NAC) Agreement
- Sound Transit's Link alignment
- Freight access and Port security protocol
- WA State Shorelines Elliot Marina Stipulated Order

NEXT STEPS

Present to SDOT
Directors, Mayor, and
Council Members
to present alternatives,
and summarize
community feedback

Present to SDOT Directors,
Mayor, and Council Members
to present preferred alternative
(including mobility, cost, and
impact information) and frame
the funding plan discussion

Package viable components into alternatives

Perform alternatives analysis

Identify the Preferred Alternative



Online Open House & Survey

to describe Magnolia Bridge
history (including past
alternatives evaluation
process), present alternatives,
and collect community input

Public Outreach Event(s)
to describe the evaluation
process, share findings,
summarize community
feedback, and present the
preferred alternative

THANK YOU

QUESTIONS?

https://www.seattle.gov/transportation/magnoliabridgeplanning



Wes Ducey, Project Manager
Seattle Department of Transportation
wes.ducey@seattle.gov
206.684.7033