HISTORY OF MAGNOLIA BRIDGE







1887

Seattle, Lake Shore & Eastern built railroad in Interbay to move timber, coal, and connect with Canada.

1892

Great Northern Railway constructed railroad to Seattle through Interbay. Great Northern built a depot at Smith Cove and piers into the cove to handle cargo from Asia.

1924

The W Wheeler St trestle, one of three major routes to Magnolia, burned down due to a train passing underneath and throwing a spark that started a devastating fire.

Photos courtesy of Seattle Municipal archives.

1930

West Garfield St Bridge was constructed between 15th Ave W and Dartmouth Ave W. The new concrete bridge replaced a timber trestle that ran from 15th Ave W to 23rd Ave W. A Local Improvement District (LID) was formed assessing Magnolians for a little over 50% of the costs. The remaining 50% of the costs were shared between the railroad companies and the City.

1931

Dravus St Bridge was opened to traffic.

1942

A wood trestle that connected the W Garfield St bridge to 23rd Ave W was removed.

1957

A new structure over 15th Ave W on the east end of the bridge was constructed.

1960

Bridge was renamed as Magnolia Bridge.

1961

West half of the bridge was strengthened by installing steel cross bracing on piers and trusses under deck.

1974

East half of bridge was strengthened similar to west half.

1981

Concrete barriers added to both sides of roadway.

1991

New ramps were added to serve Elliot Bay Marina.

1997

Landslide damaged piers on west end of bridge requiring closure until repaired.

2001

The Nisqually earthquake damaged nearly half of the original concrete lateral bracing requiring closure until replaced with tubular steel bracing.

2001

W Galer St Flyover was constructed.

2010

Admiral's House situated near the west end of the Magnolia Bridge was designated a Seattle Landmark.

2015

Start of construction of King County's Magnolia Wet Weather Storage Facility at Smith Cove.





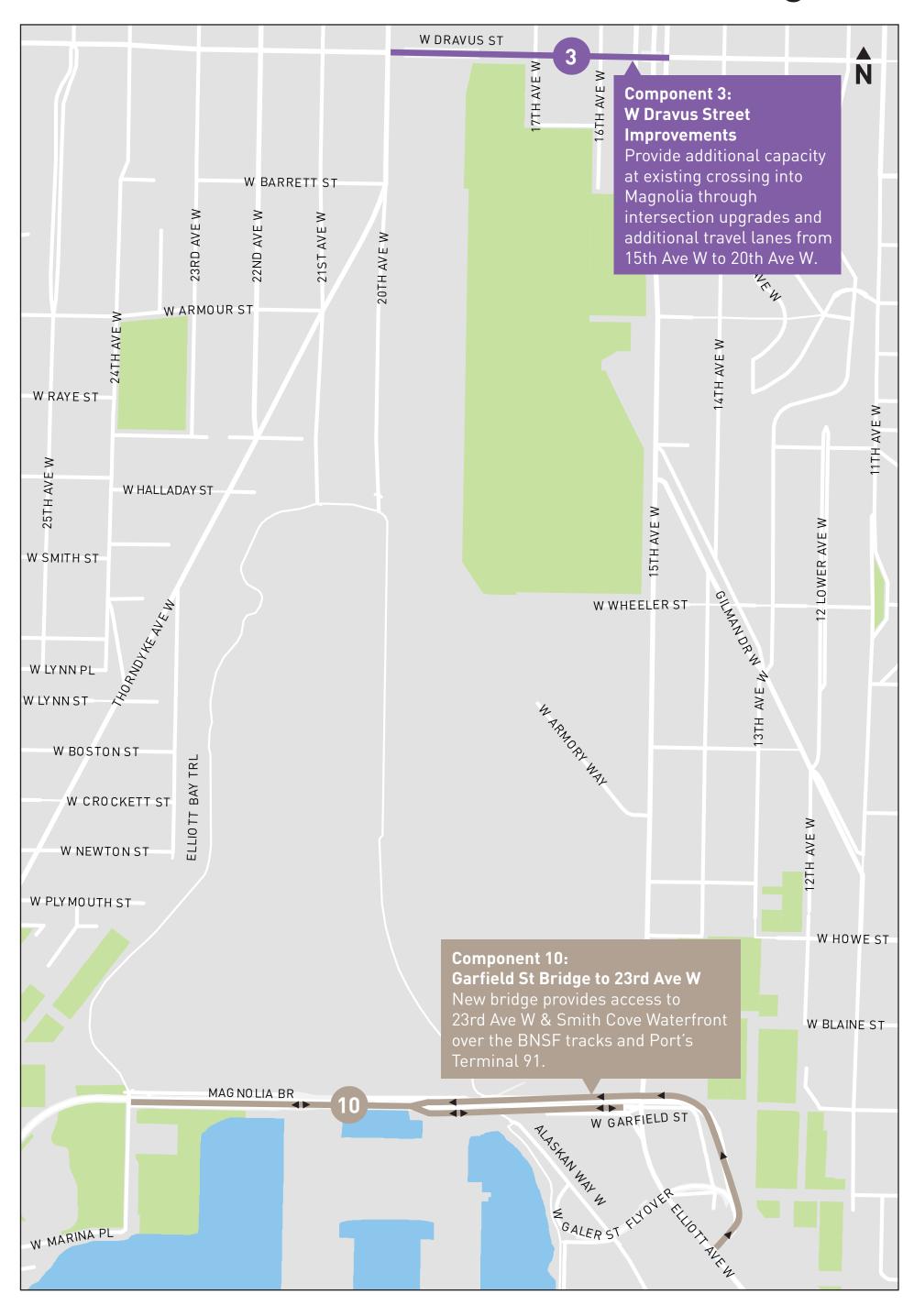
Alternative I - Armory Bridge, etc.



Alternative II - Dravus, etc.



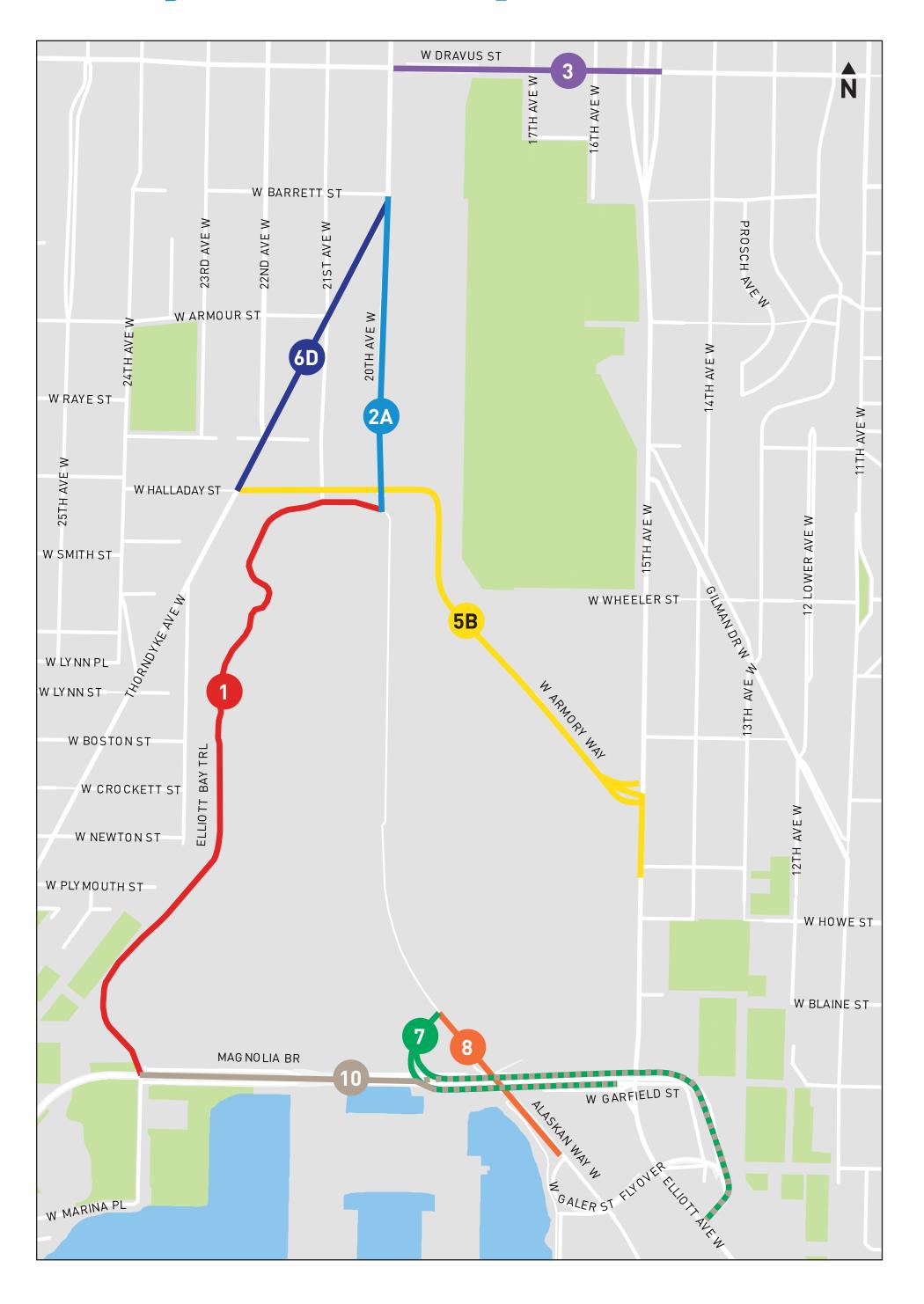
Alternative III - Dravus & Garfield Bridge







Project Components



Component 1: West Uplands Perimeter Road

- Component 1 provides more direct access between Magnolia and the Smith Cove Waterfront and Elliott Bay Marina.
- It will parallel the alignment of the existing Elliott Bay Trail but may deviate at certain points to provide a more direct route.
- The Elliot Bay Trail will be maintained.
- This component must be combined with component 2A at a minimum to provide access to Smith Cove Waterfront.

Component 2A: 20th Ave W Improvements

- Component 2A is required to provide access between Magnolia and the Smith Cove Waterfront via the West Uplands Perimeter Road (1).
- 20th Ave W is preferred over 21st Ave W because it better accommodates traffic both geometrically and operationally.
- This component must be combined with component 1 at a minimum to provide access to Smith Cove Waterfront.

Component 3: W Dravus St Improvements

- Component 3 would increase capacity along W Dravus St, an existing access point to Magnolia, by widening the roadway and making intersection improvements at 15th Ave W and 20th Ave W.
- The 15th Ave W interchange would be re-designed to a Single Point Urban Interchange (SPUI) providing significant additional capacity.
- This component provides access to and from Magnolia independent of other components.

Component 5B: W Armory Way Bridge

- Component 5B would create a new access point to Magnolia via an elevated bridge structure from 15th Ave W along Armory Way W, crossing perpendicularly over the BNSF railroad, and connecting to Thorndyke Ave W at W Halladay St.
- The structure will have a northbound, on-ramp from 15th Ave W designed to allow grade-separated free-flow access to the bridge.
- This component provides access to and from Magnolia independent of other components.

Component 6D: Thorndyke Ave W Improvements

- Component 6D provides access between the new Armory Way Bridge and the Smith Cove Waterfront via 20th Ave W (2A) and the West Uplands Perimeter Road (1).
- It would include improvements to the intersection of Thorndyke Ave W and 20th Ave W to accommodate turns for freight vehicles and buses.
- This component must be combined with components 2A and 1 to provide access to Smith Cove Waterfront via the new Armory Way Bridge.

Component 7: W Garfield St Flyover

- New bridge is important for future traffic on 15th Ave W. It provides Southbound traffic on 15th Ave W a right turn option to access Elliott Bay over the BNSF tracks.
- It also relieves future traffic demands on the Galer Street Flyover.
- It has been designed to accommodate freight vehicles due to it's proximity to the Port property.
- This component must be combined with component 8 to provide maximum traffic benefits to 15th Ave W.

Component 8: Alaskan Way W Extension

- Provides connection between Garfield St Flyover (7) and existing Galer St Flyover via an extension of Alaskan Way W
- Provides access between the Garfield Street Flyover and Galer St Flyover
- Relieves pressure on the Galer St Flyover
- This component must be combined with component 7 to provide any traffic benefits to 15th Ave W.

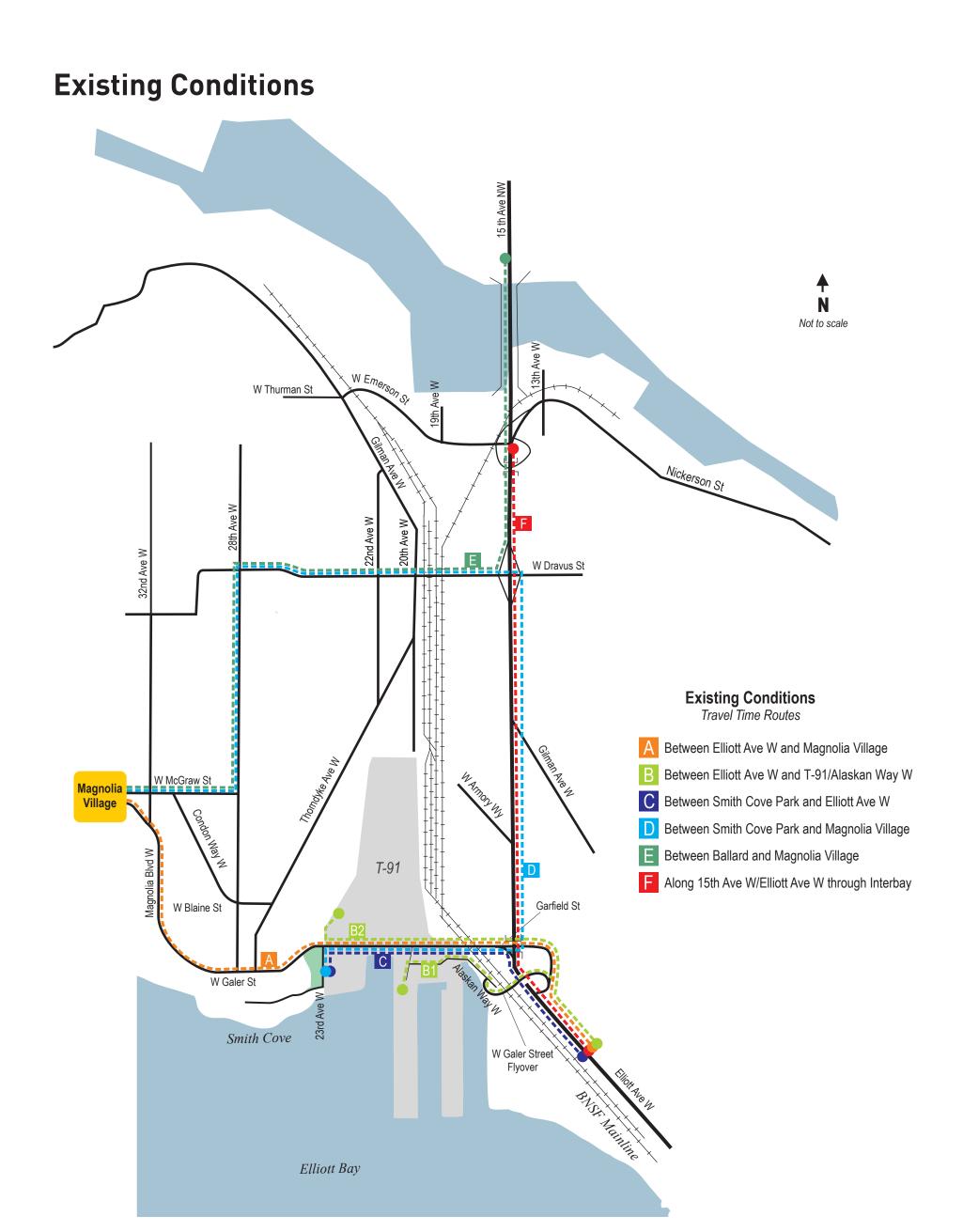
Component 10: W Garfield St Bridge to 23rd Ave W

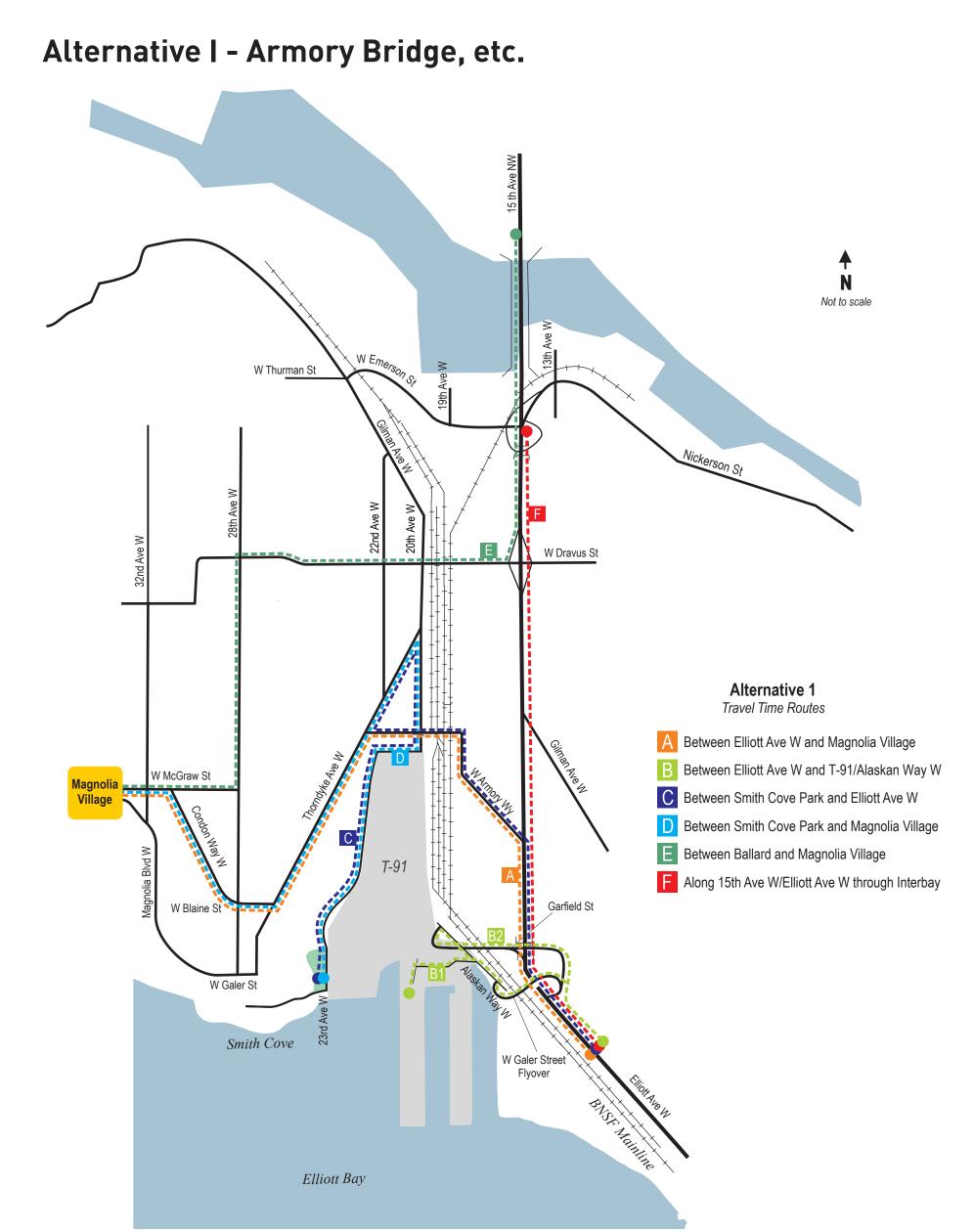
- New bridge provides access to 23rd Ave W (Smith Cove Waterfront & western Port property) over the BNSF tracks and the Port's Terminal 91 operations.
- Does not provide access to Magnolia.
- Particularly important to marina and freight traffic
- This component provides access to and from Smith Cove Waterfront area independent of other components.



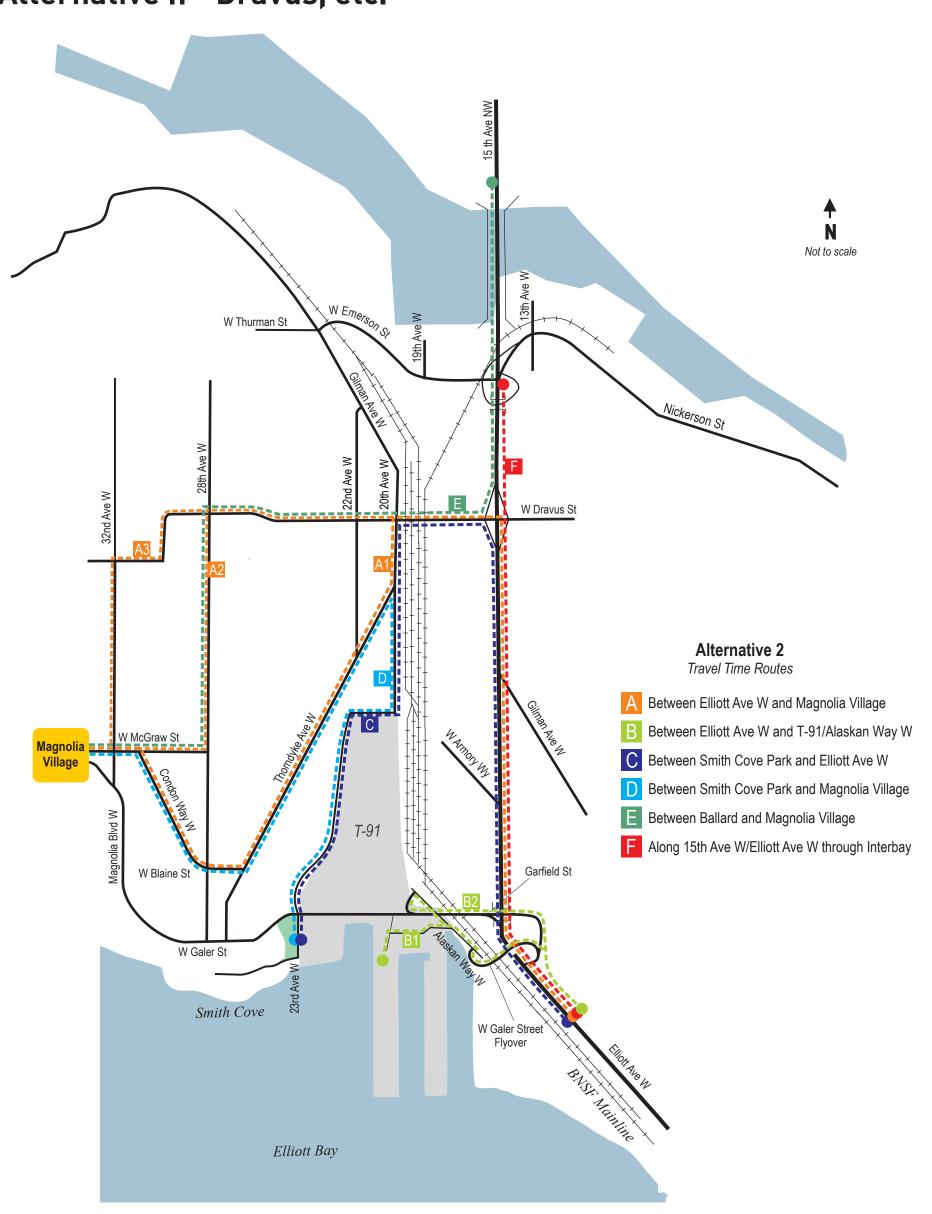


Travel Time Routes

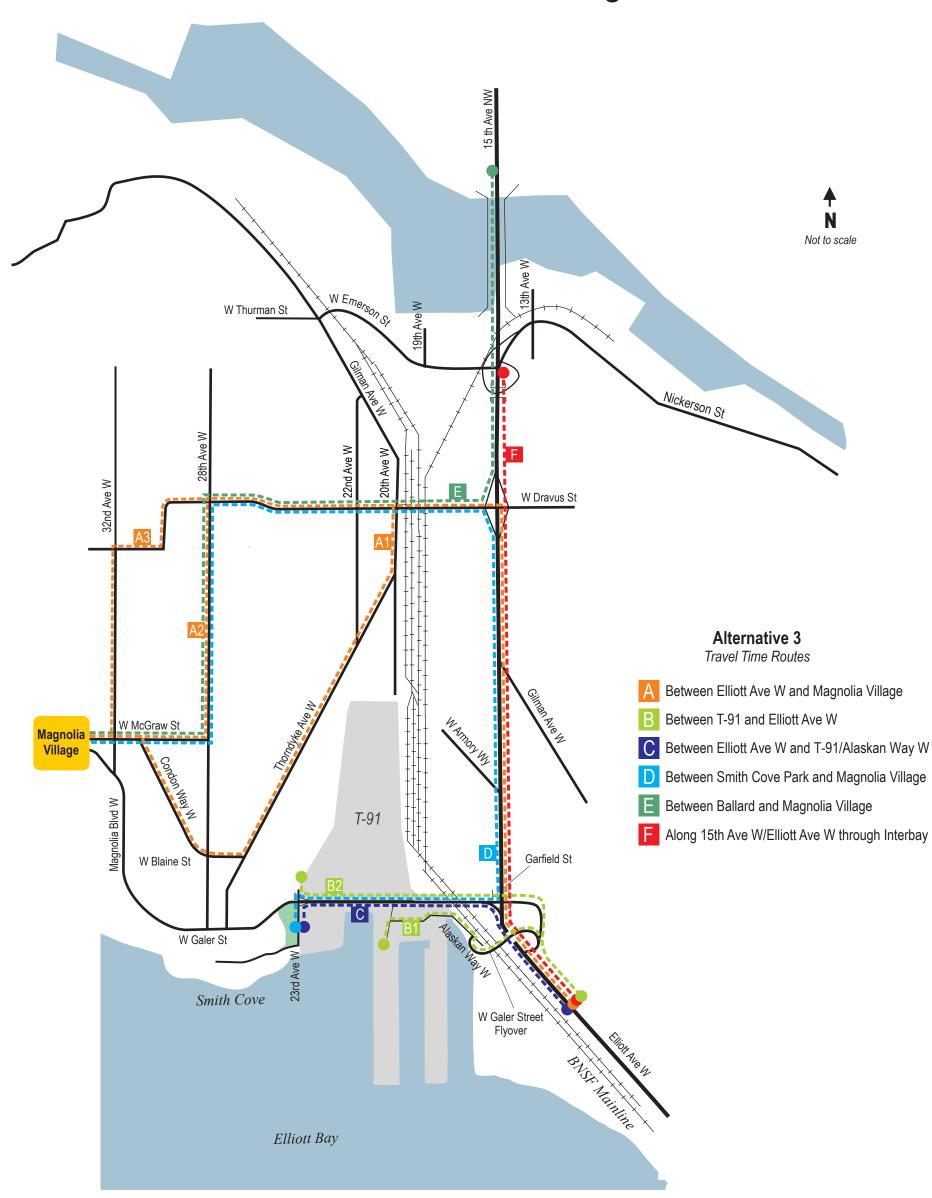




Alternative II - Dravus, etc.



Alternative III - Dravus & Garfield St Bridge



Alternatives Analysis Preliminary Results

Relatively	y		Re	elatively
Bad				Good
= Fvalu	ıatio	n In P	roare	SS

= Evaluation In Progress			
	Alternative I	Alternative II	Alternative III
COST (30%)			
Estimated Cost (2018\$)	\$250,000,000	\$237,000,000	\$216,000,000
MOBILITY AND CONNECTIVITY (25%)			
Access to and from Magnolia Village			
Access between Smith Cove/Marina and 15th Ave W			
Access between Smith Cove/Marina and Magnolia			
Access to and from T-91 and Alaskan Way W			
Traffic Flow on 15th Ave			
Pedestrian and Bicycle Connectivity			
Freight Access			
Transit Access			
★ COMMUNITY INPUT (15%)			
Public Input			• •
Agency Input			
ENVIRONMENTAL IMPACT (15%)			
Adjacent Land Use			
Sensitive Areas			
Natural Hazards			
IMPLEMENTATION CHARACTERISTICS (15%)			
Construction Duration			
Construction Impacts			
Construction Phasing			

We are here

Tell us what you think!



Alternatives Ranking

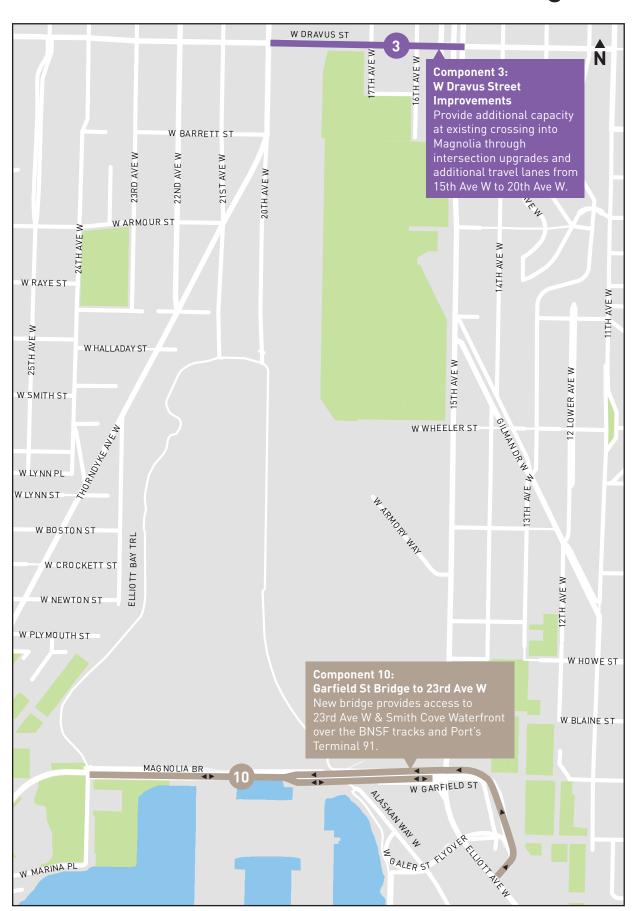
Alternative I - Armory Bridge, etc.



Alternative II - Dravus, etc.



Alternative III - Dravus & Garfield Bridge



Please rank the alternatives as most important or least important using your red or green dots. Use green for the most important alternative and red for the least important.

Alternative I - Armory Bridge, etc.

Alternative I	I - Dravus. etc.

Alternative III - Dravus & Garfield Bridge



Remaining Components Ranking



Please rank the components as most important or least important using your red or green dots. Use green for the most important component and red for the least important.

Component 1	Component 2A	Component 3	Component 5A
Component 5B	Component 7	Component 8	Component 10
Component 5B	Component 7	Component 8	Component 10
Component 5B	Component 7	Component 8	Component 10



