



Magnolia Bridge Planning Study

07/17/2018

Stakeholder Meeting



City of Seattle

Agenda

- **WELCOME**
- **UPDATES**
 - **JUNE ENGAGEMENT RESULTS**
 - **UPDATED SCOPE & SCHEDULE**
 - **ALTERNATIVE ANALYSIS STATUS**
- **DISCUSSION OF 3 ALTERNATIVES**
 - **COST ESTIMATE DETAILS**
 - **TRAFFIC MODELING DETAILS**
 - **REMAINING CONCERNS/QUESTIONS**
- **NEXT STEPS**



Where We've Been

Planning Study Process

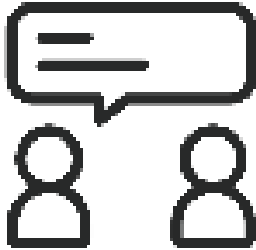
		2017				2018											
		Q1	Q2	Q3	Q4	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	Stakeholder Workshops Port of Seattle, Magnolia Chamber, Magnolia Community Council, King County Metro, Seattle Parks and Recreation, Seattle Department of Transportation, Sound Transit, Queen Anne Community Council, Magnolia Interbay Queen Anne Disaster Preparedness, Seneca/Expedia, BNSF	[Blue shaded area]															
	Community Councils and Other Community Group Briefings to inform public of the study purpose and present initial components for comment and questions	[Blue circle]		[Blue circle]				[Blue circle]	[Blue circle]								
	Present to SDOT Directors, Mayor, and Council Members to review initial and technical screening and present alternatives																
	Drop-in Sessions and Online Open House & Survey to describe Magnolia Bridge history, review evaluation process, present alternatives, and collect community input										[Blue circle]						

- Emergency Closure Plan
- Technical screening of components to identify viable alternatives
- Perform alternatives analysis
- Present analysis and information
- Listening to community & agencies

JUNE 2018

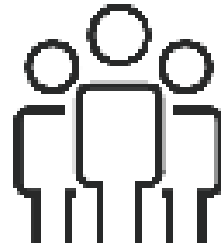
4

Drop-in sessions



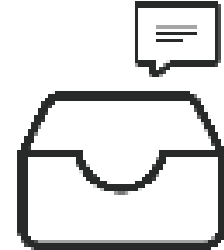
277

Drop-in session participants



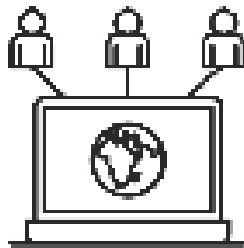
94

Written comments



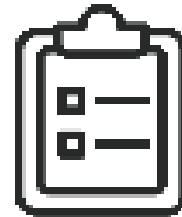
1

Online open house



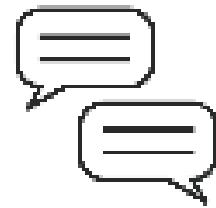
186

Online alternatives survey participants



200

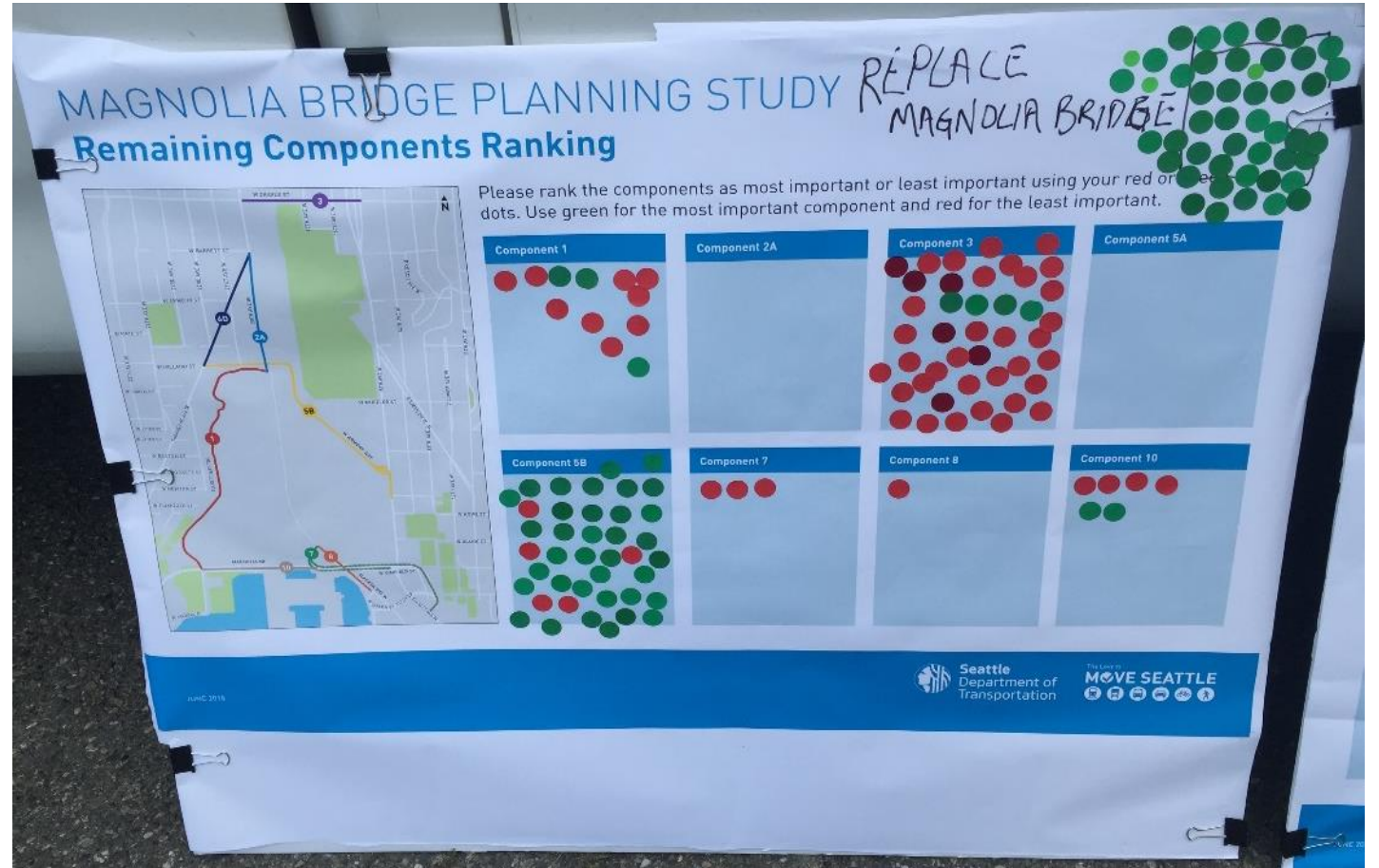
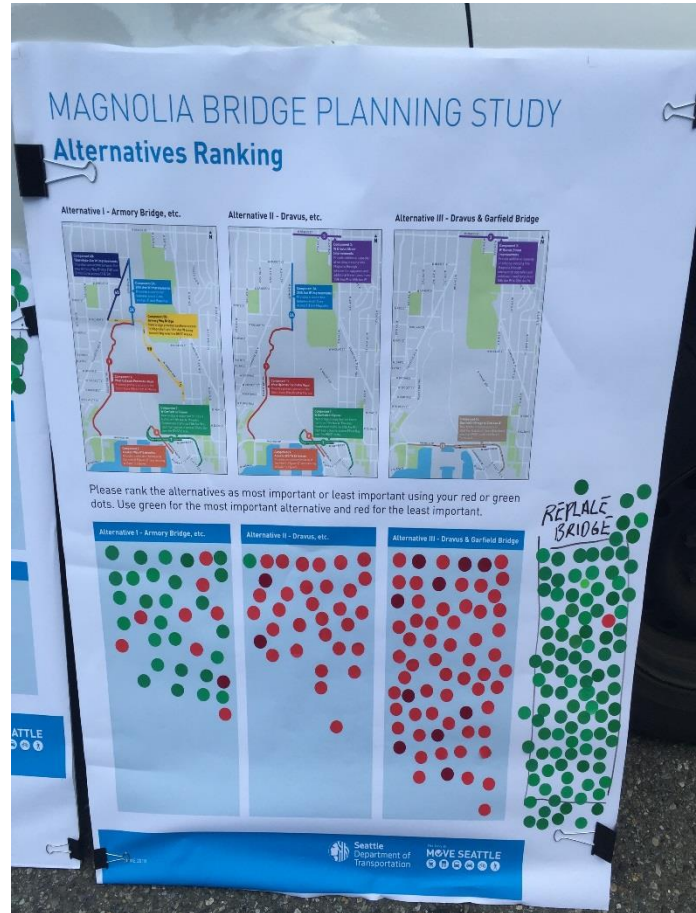
Online open house comments



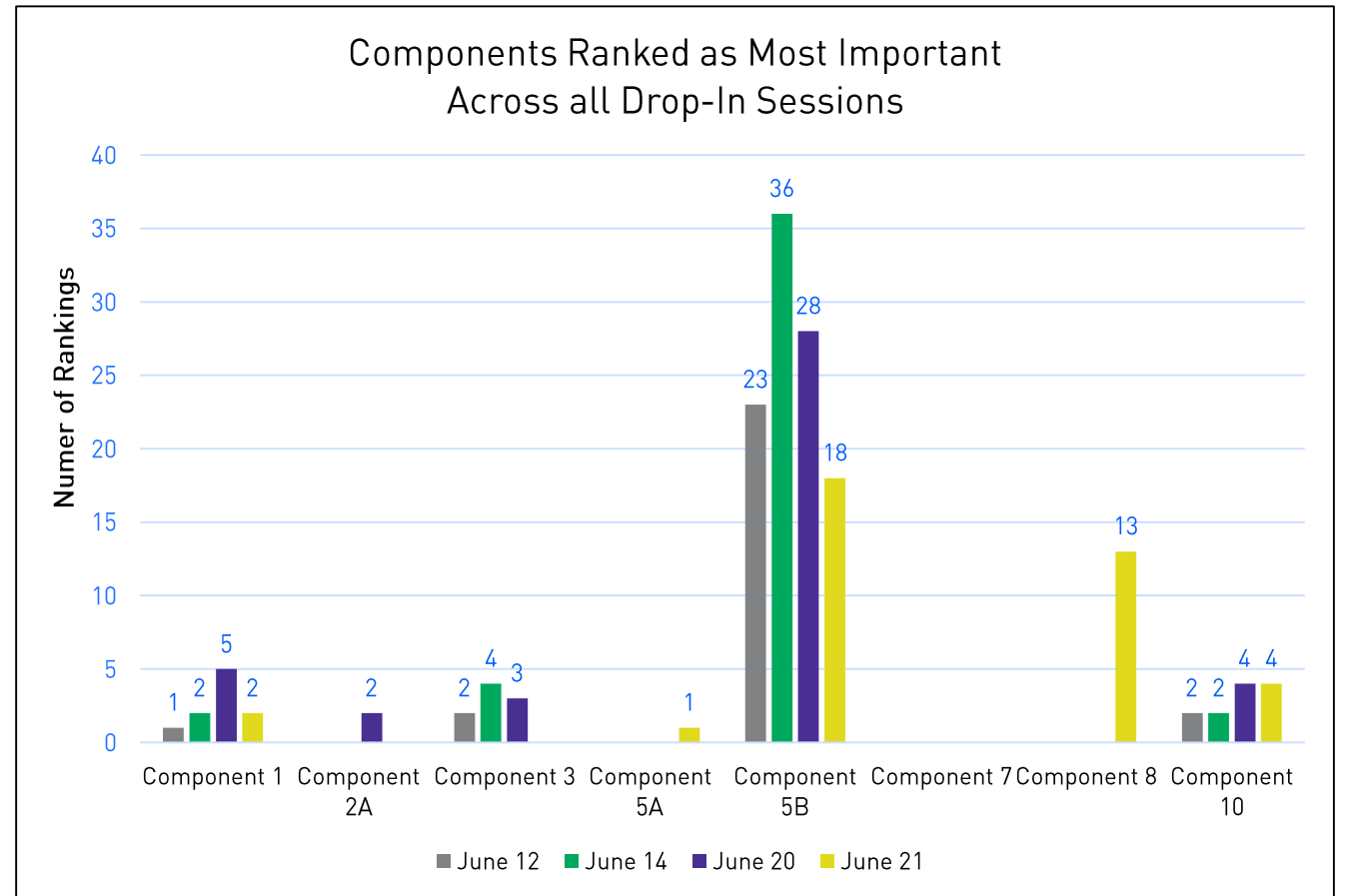
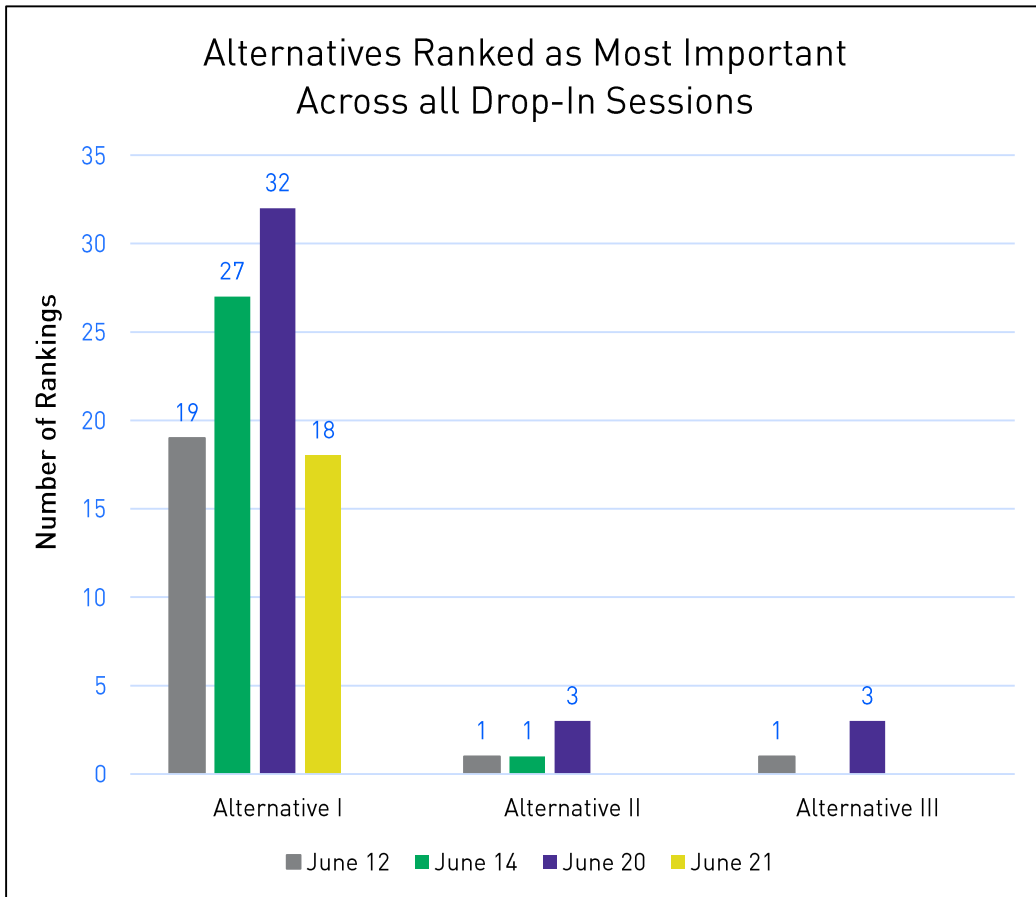
June Community Engagement



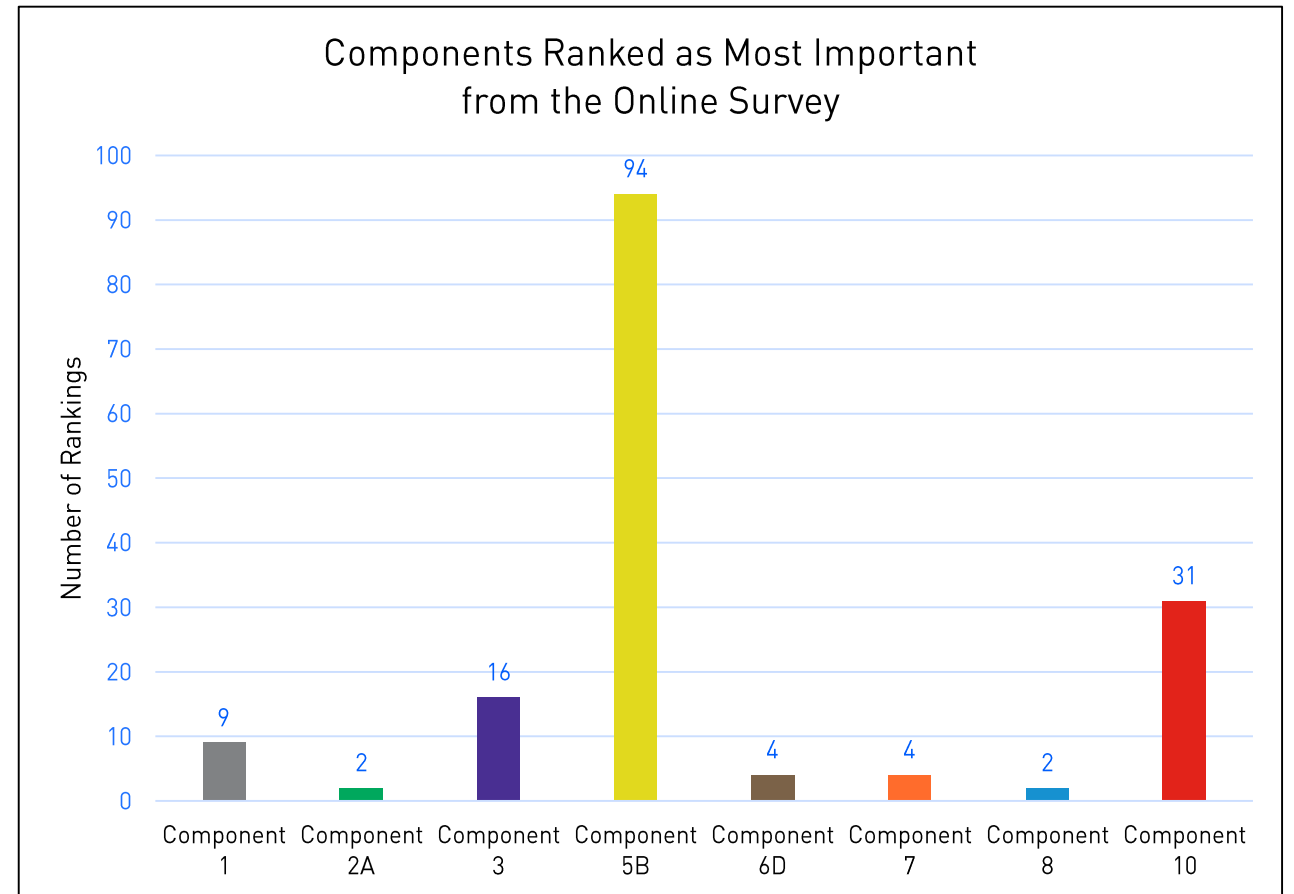
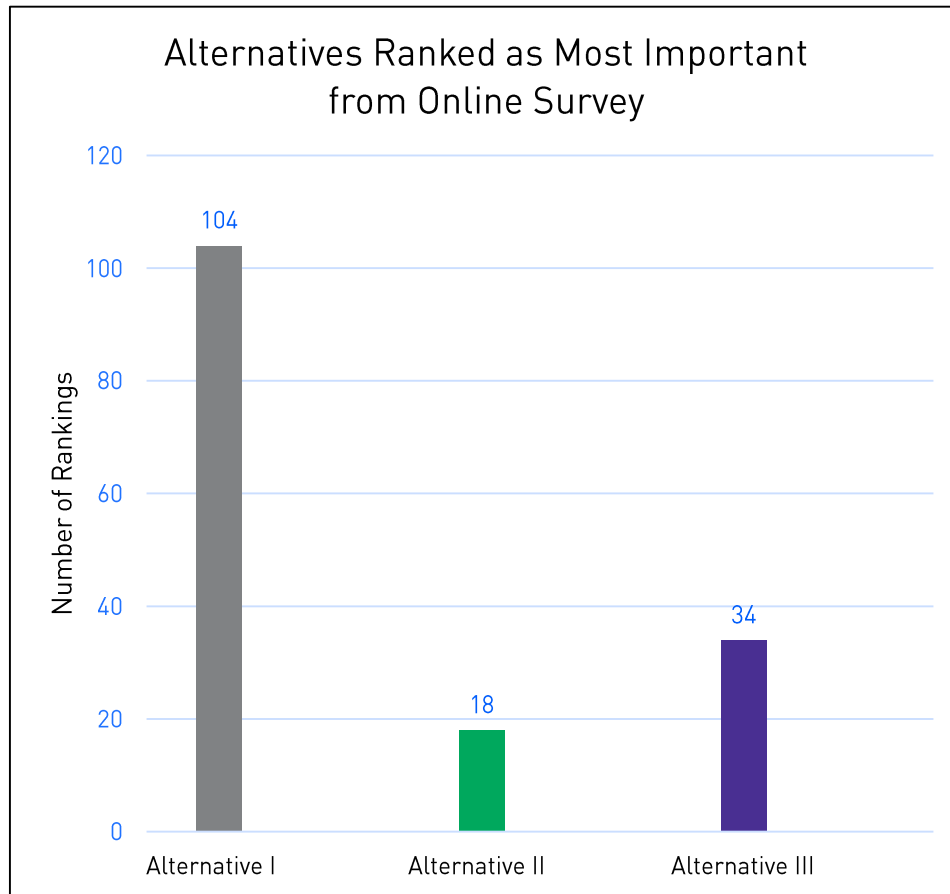
Drop-In Session Results



Drop-In Session Results



Online Open House Results



What We Heard

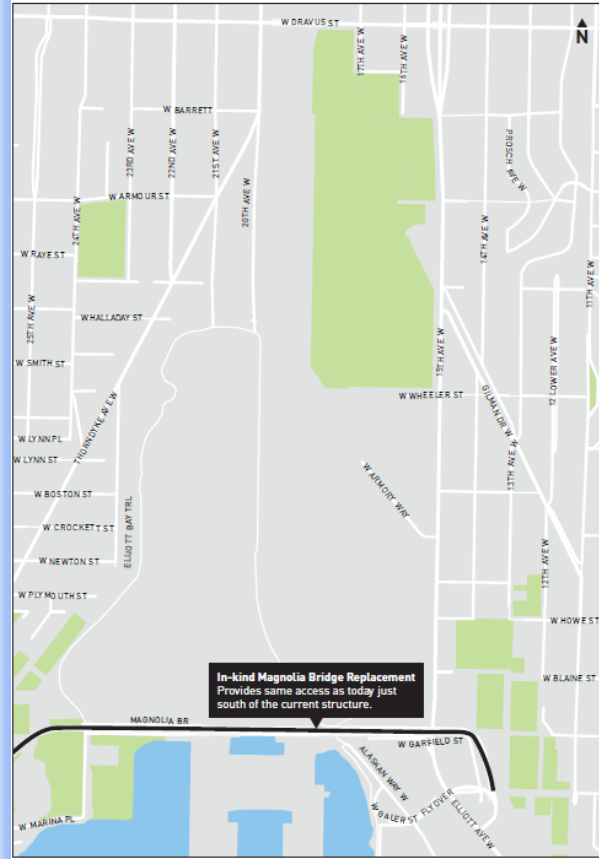
- The majority of commenters want the in-kind replacement of the Magnolia Bridge
- Alternative I and Component 5B ranked highest
- Component 5B W Armory Way Bridge concern: would impact nearby residences on Halladay St
- Many felt W Dravus St could not be improved enough to support the additional trips
- See our website for a full community engagement summary:
<https://www.seattle.gov/transportation/magnoliabridgeplanning>



How We're Responding

Updated analysis of In-Kind Replacement added in response to community comments & engagement

2006 Recommended In-kind Replacement



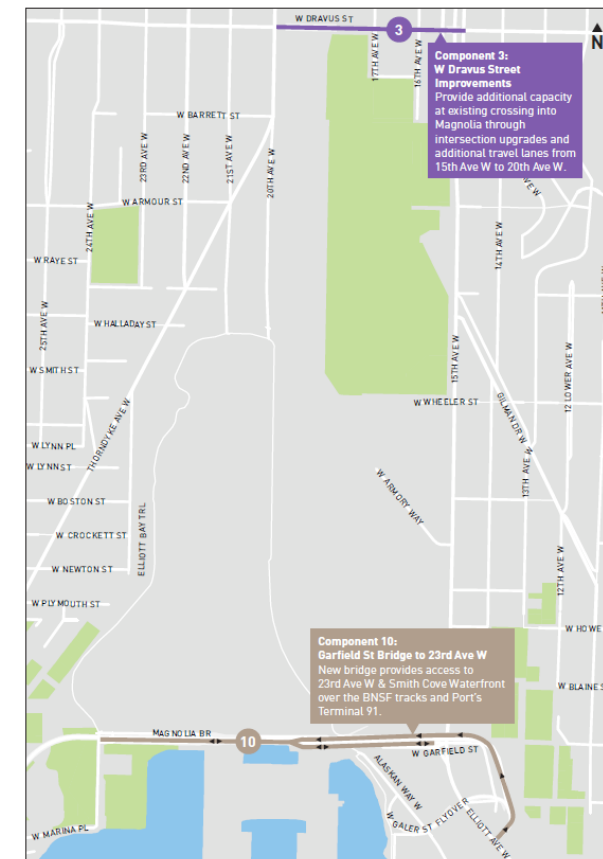
Alternative I - Armory Bridge, etc.



Alternative II - Dravus, etc.



Alternative III - Dravus & Garfield Bridge



Updated Planning Study Scope & Schedule

- Authorized Scope and Schedule addendum to update the cost and traffic analysis for the in-kind replacement option
- Extending planning study to the end of 2018
 - Present in-kind replacement and recommended alternative
 - Provide direct comparison of costs
 - Provide direct comparison of traffic impacts



ALTERNATIVE ANALYSIS STATUS

- SUMMER 2018 – Complete Alternatives Analysis
- FALL 2018 – In-Kind Replacement Analysis



Total Cost - In-kind Replacement & Alternatives

				Alternative 1	Alternative 2	Alternative 3	In-kind Replacement	Alternative 1	Alternative 2	Alternative 3	In-kind Replacement
#	Summary Cost Item Description	Unit	Unit Price	Quantity	Quantity	Quantity	Quantity	Estimated Cost	Estimated Cost	Estimated Cost	Estimated Cost
1	Component 1 Construction Cost	LS	\$ 10,116,000	1	1			\$ 10,116,000	\$ 10,116,000	\$ -	\$ -
2A	Component 2A Construction Cost	LS	\$ 1,334,000	1	1			\$ 1,334,000	\$ 1,334,000	\$ -	\$ -
3	Component 3 Construction Cost	LS	\$ 38,682,000		1	1		\$ -	\$ 38,682,000	\$ 38,682,000	\$ -
5B	Component 5B Construction Cost	LS	\$ 41,187,000	1				\$ 41,187,000	\$ -	\$ -	\$ -
6D	Component 6D Construction Cost	LS	\$ 2,909,000	1				\$ 2,909,000	\$ -	\$ -	\$ -
7	Component 7 Construction Cost	LS	\$ 27,647,500	1	1			\$ 27,647,500	\$ 27,647,500	\$ -	\$ -
8	Component 8 Construction Cost	LS	\$ 1,604,000	1	1			\$ 1,604,000	\$ 1,604,000	\$ -	\$ -
10	Component 10 Construction Cost	LS	\$ 41,496,500			1		\$ -	\$ -	\$ 41,496,500	\$ -
Demo	Magnolia Bridge Demolition	LS	\$ 6,673,500	1	1	1	1	\$ 6,673,500	\$ 6,673,500	\$ 6,673,500	\$ 6,673,500
Repl	HNTB Replacement Cost 2018\$	LS	\$ 191,122,500				1	\$ -	\$ -	\$ -	\$ 191,122,500
Construction Cost Total								\$ 91,471,000	\$ 86,057,000	\$ 86,852,000	\$ 197,796,000
Soft Cost % *								40%	40%	40%	30%
Soft Cost								\$ 36,588,400	\$ 34,422,800	\$ 34,740,800	\$ 59,338,800
Property Acquisition Costs								\$ 63,704,700	\$ 61,264,500	\$ 44,406,800	\$ 34,020,700
TOTAL BASE COST								\$ 191,764,100	\$ 181,744,300	\$ 165,999,600	\$ 291,155,500
Project Contingency (30%)*								\$ 58,000,000	\$ 55,000,000	\$ 50,000,000	\$ 87,000,000
2018 TOTAL COST**								\$ 250,000,000	\$ 237,000,000	\$ 216,000,000	\$ 378,000,000
2018 ESTIMATED COST RANGE								\$200-\$350M	\$190-\$310M	\$170-\$280M	\$340-\$420M

*Soft Cost and Contingency % based on SDOT standards for a project's design level

**Total Cost adjusted to Estimated Cost Range based on American Association of Cost Engineering (AACE) Standards for projects in different stages of definition and design

American Association of Cost Engineering (AACE) Cost Estimate Classification

ESTIMATE CLASS	<i>Primary Characteristic</i>	<i>Secondary Characteristic</i>		
	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges ^[a]
Class 5	0% to 2%	Functional area, or concept screening	SF or m ² factoring, parametric models, judgment, or analogy	L: -20% to -30% H: +30% to +50%
Class 4	1% to 15%	or Schematic design or concept study	Parametric models, assembly driven models	L: -10% to -20% H: +20% to +30%
Class 3	10% to 40%	Design development, budget authorization, feasibility	Semi-detailed unit costs with assembly level line items	L: -5% to -15% H: +10% to +20%
Class 2	30% to 75%	Control or bid/tender, semi-detailed	Detailed unit cost with forced detailed take-off	L: -5% to -10% H: +5% to +15%
Class 1	65% to 100%	Check estimate or pre bid/tender, change order	Detailed unit cost with detailed take-off	L: -3% to -5% H: +3% to +10%

Note: [a] The state of construction complexity and availability of applicable reference cost data affect the range markedly. The +/- value represents typical percentage variation of actual cost from the cost estimate after application of contingency (typically at a 50% level of confidence) for given scope.

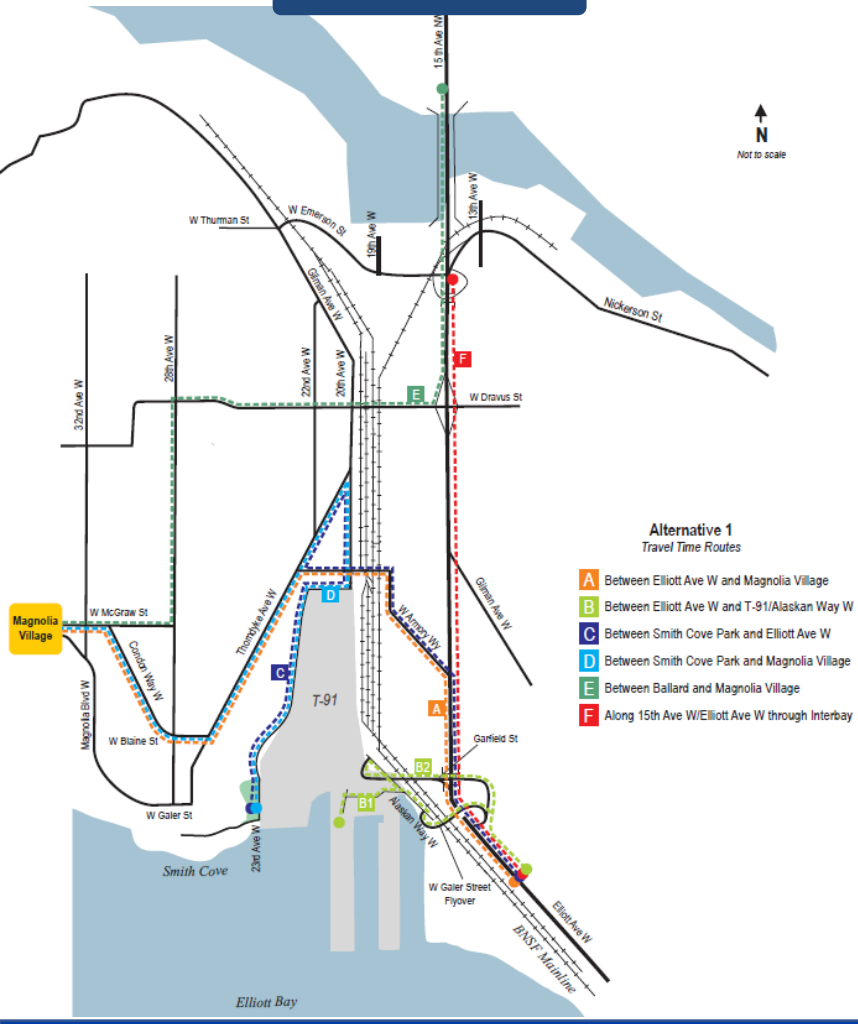
Table 1 – Cost Estimate Classification Matrix for Building and General Construction Industries

Per AACE International Recommended Practice No. 56R-08

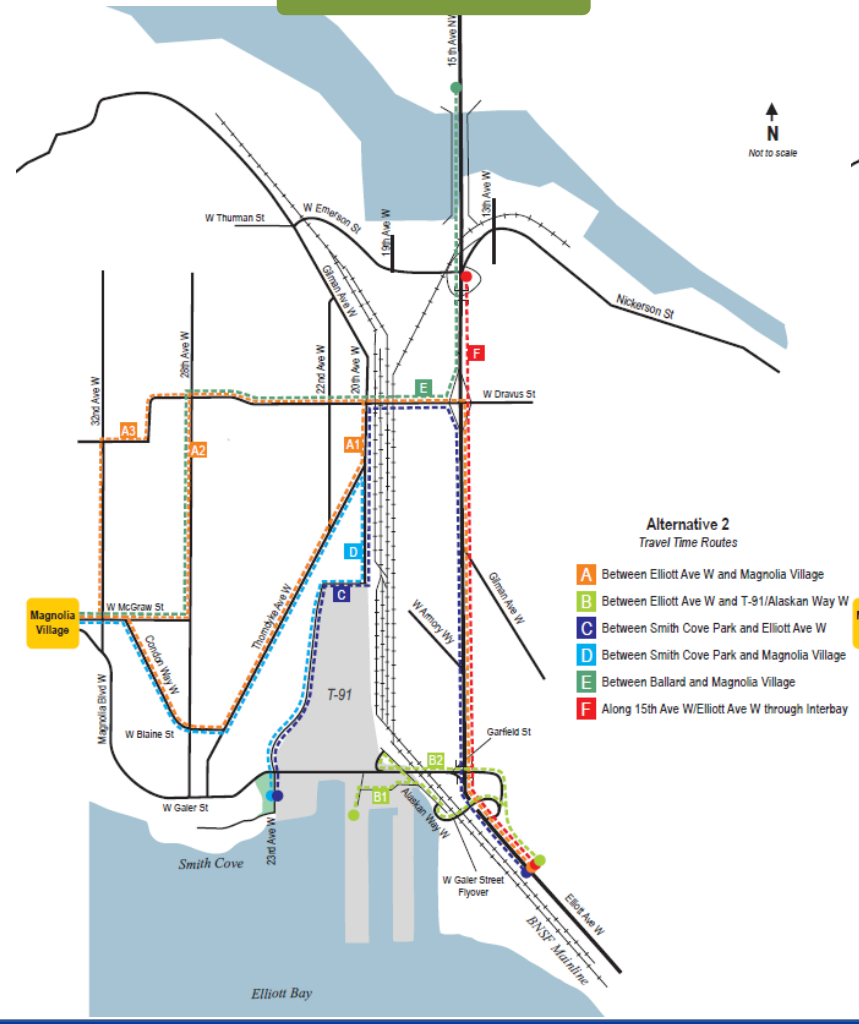


Travel Time Routes Evaluated

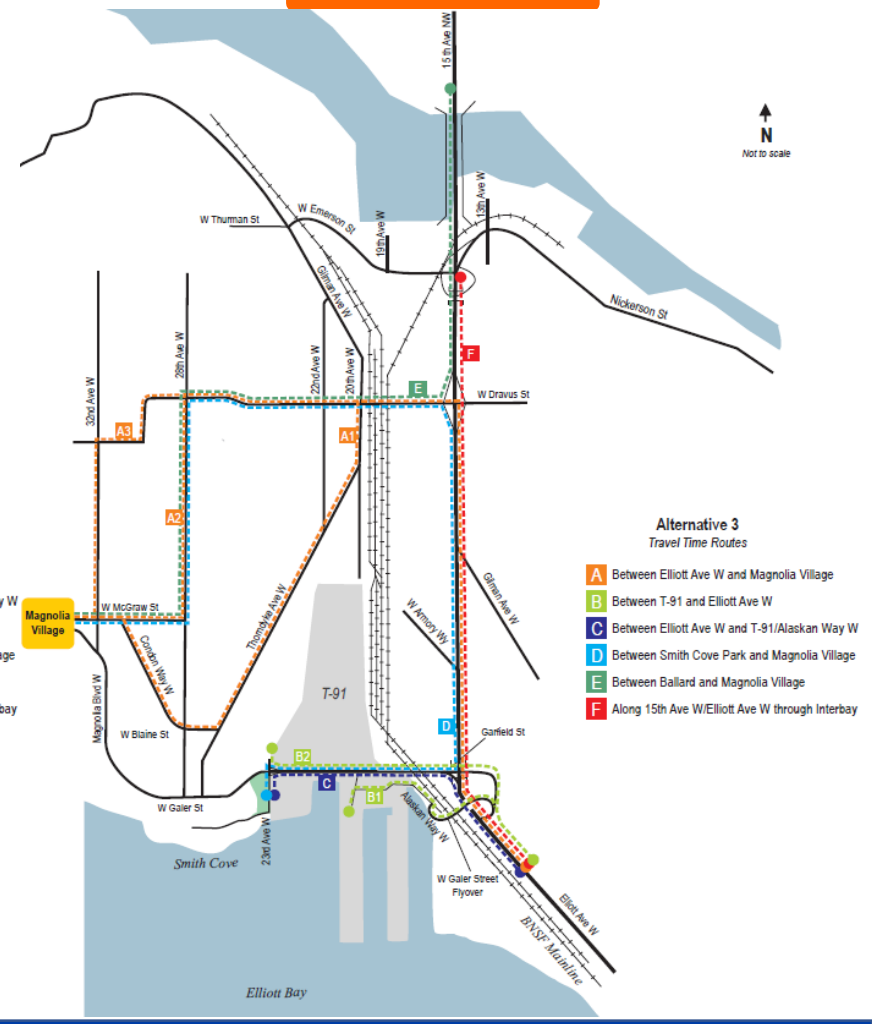
Alternative 1



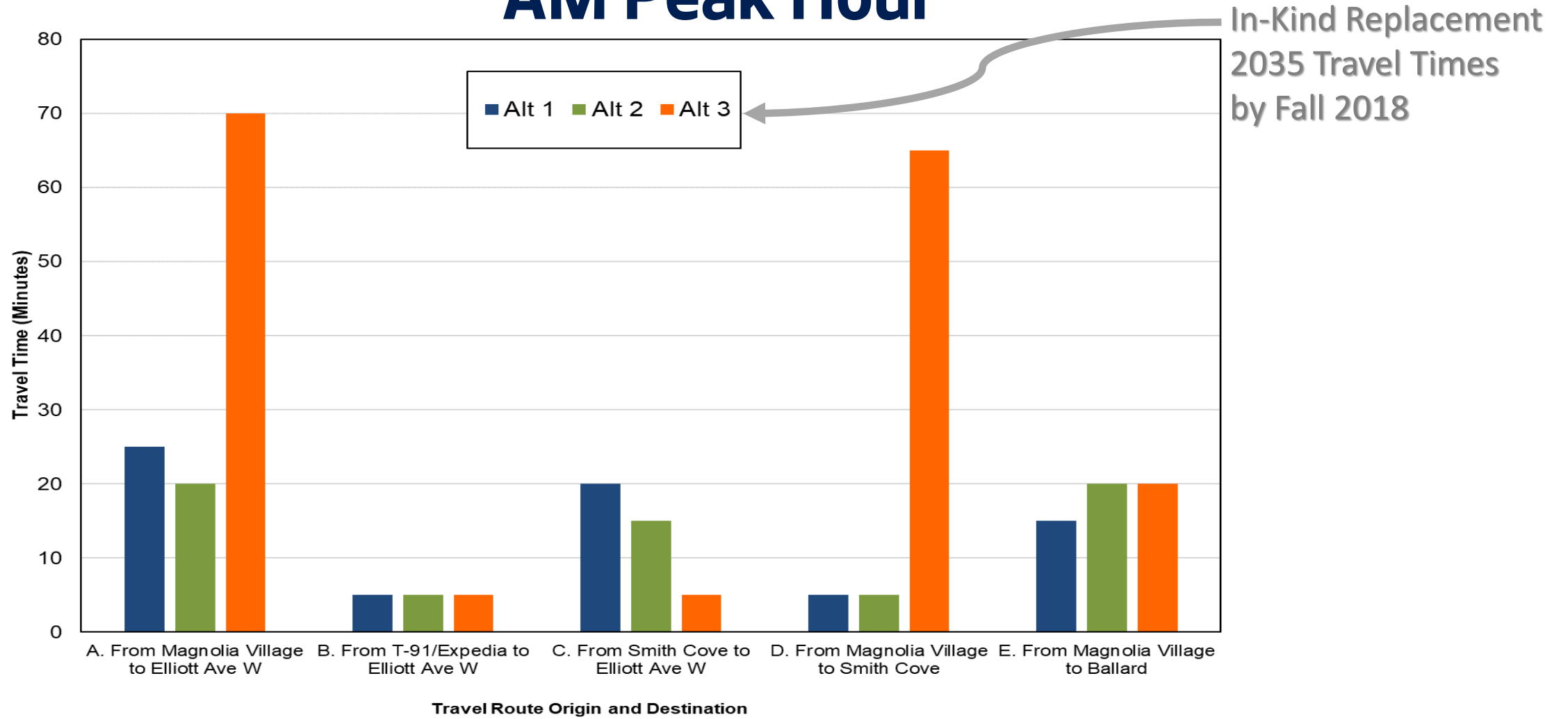
Alternative 2



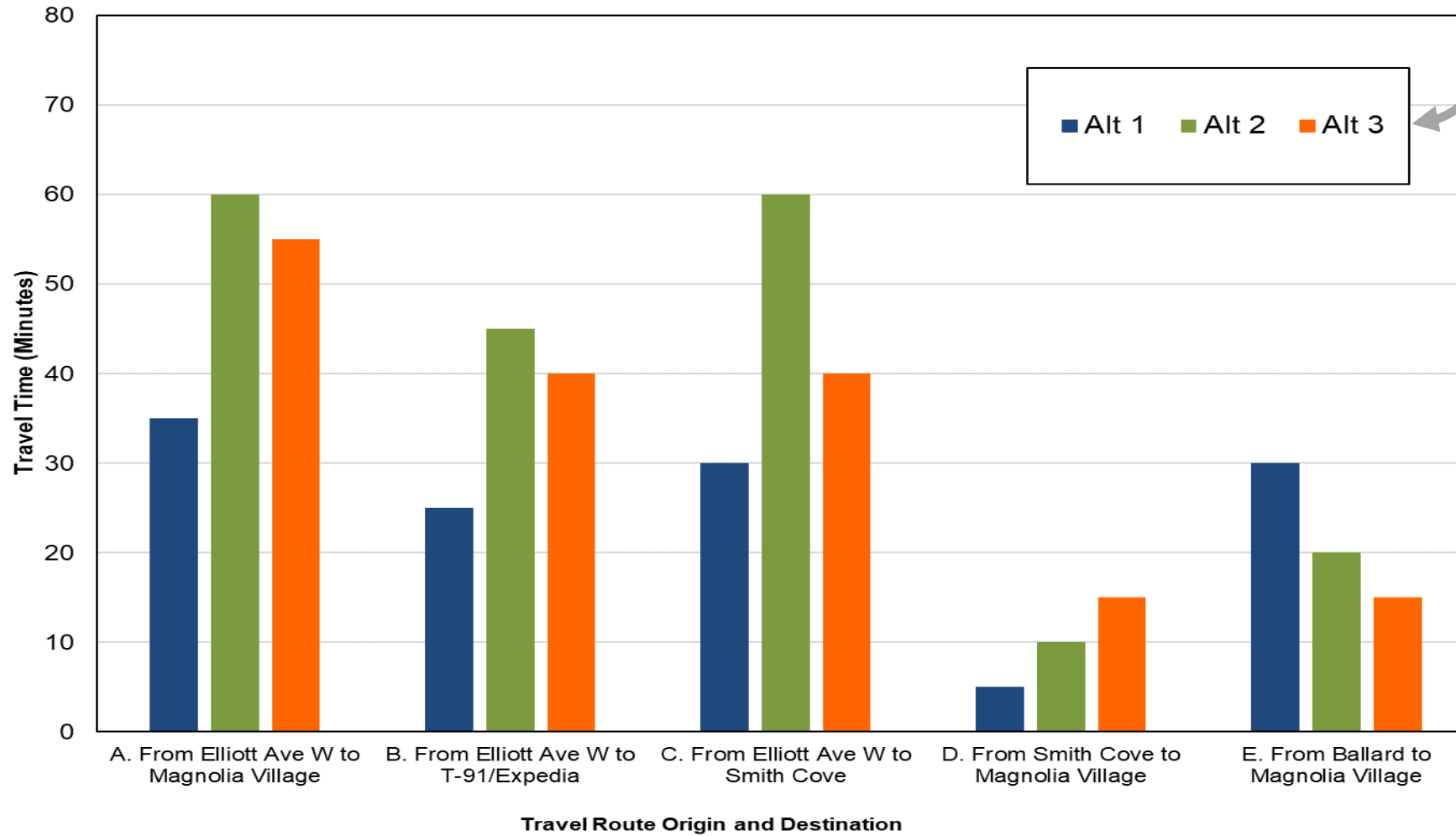
Alternative 3



2035 Travel Times - Leaving Magnolia/Interbay AM Peak Hour



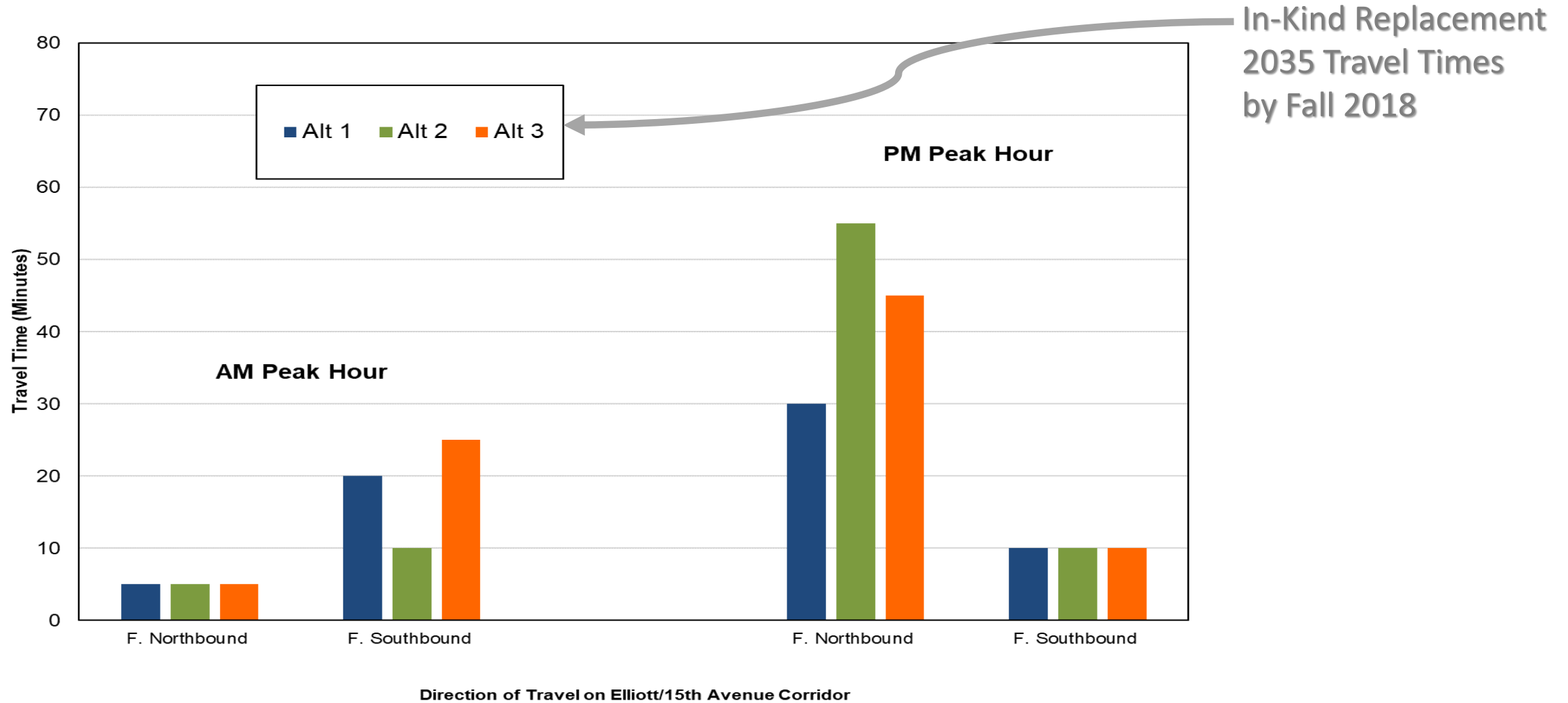
2035 Travel Times - Leaving Magnolia/Interbay PM Peak Hour



In-Kind Replacement
2035 Travel Times
by Fall 2018

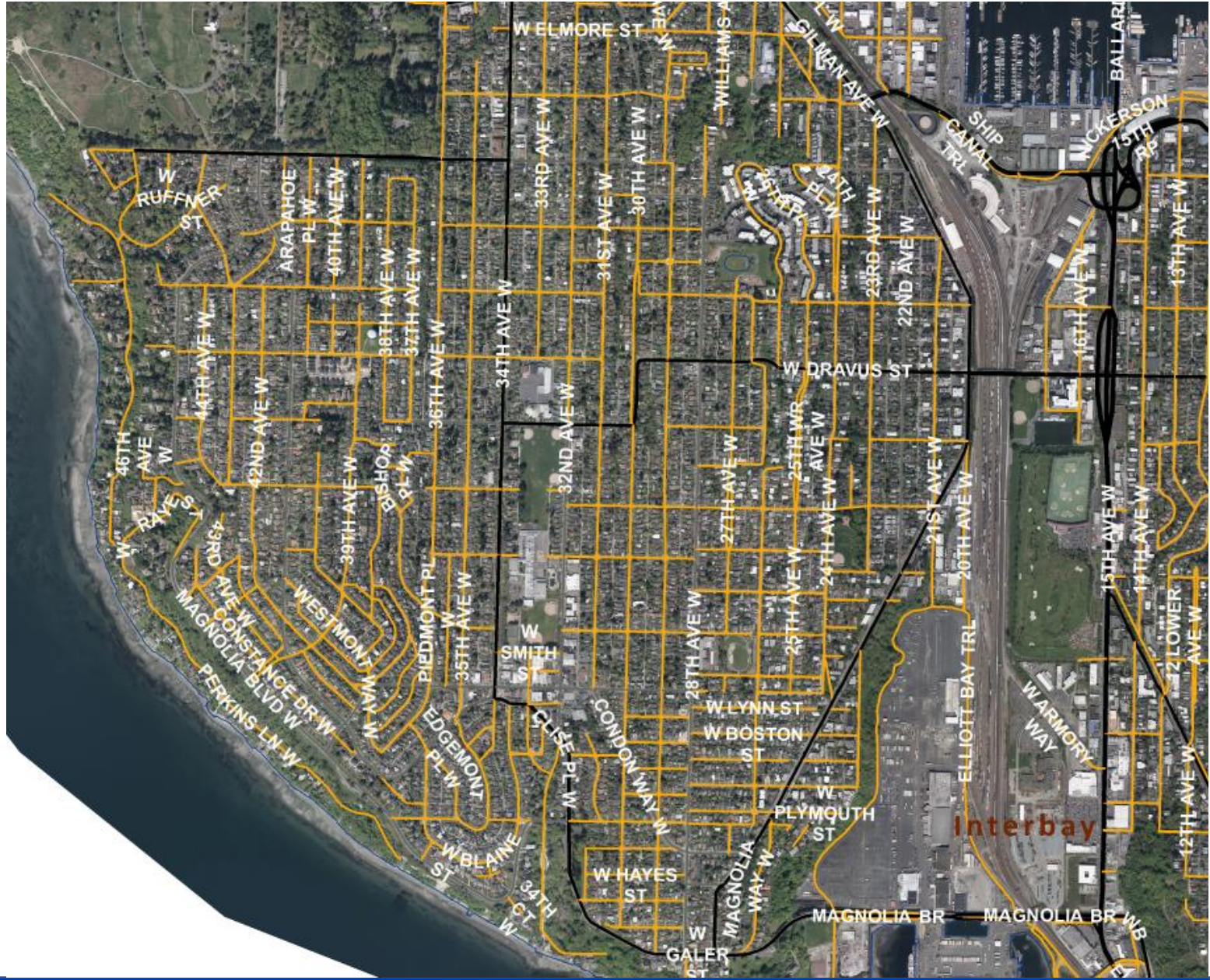


2035 Travel Times - Along 15th/Elliott Ave Corridor

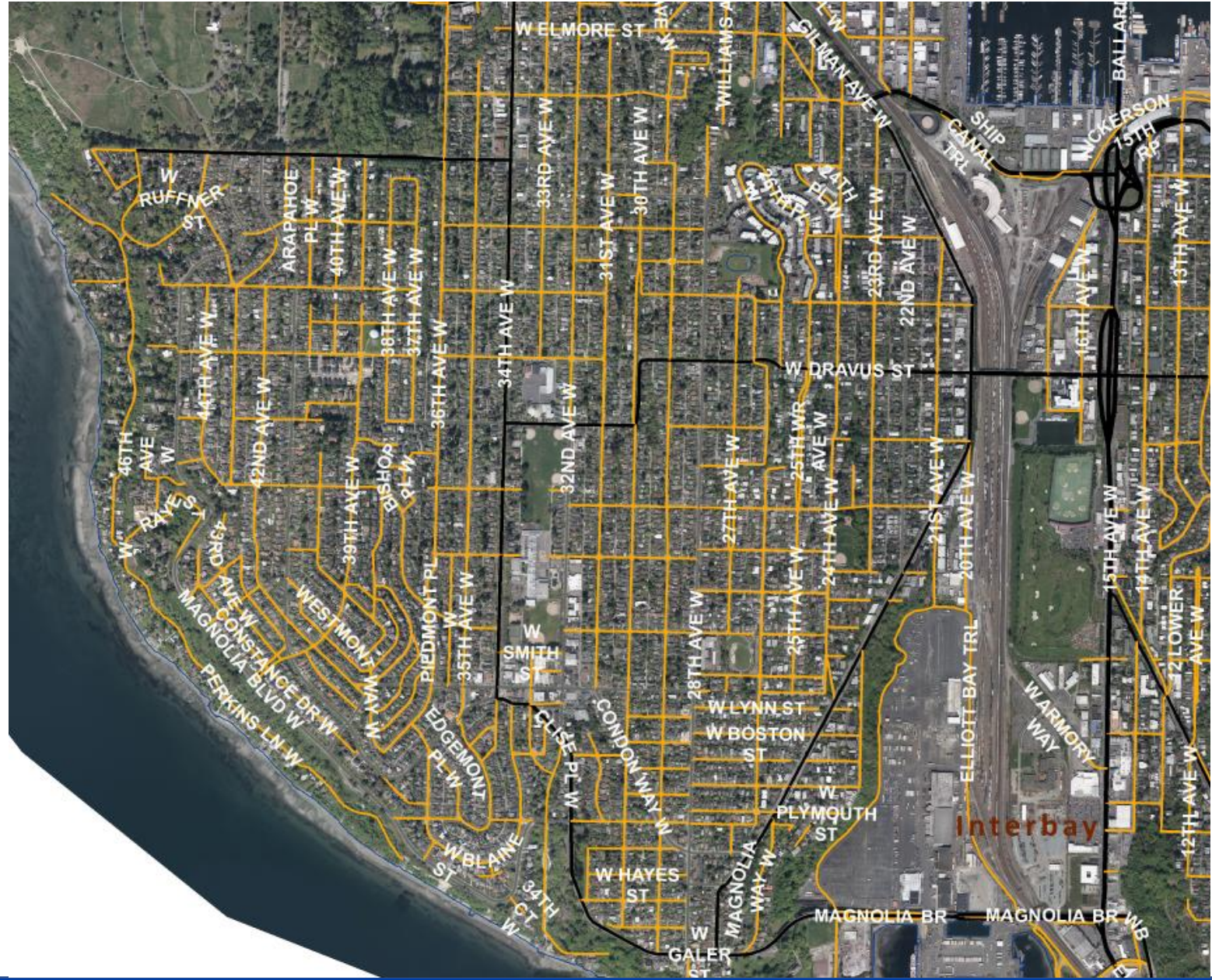


Preliminary Recommendations











- Access improvements beyond new components
 - Thorndyke Ave W
 - W Blaine St
 - Condon Way W
- Economic Impact
 - Intercept Survey
 - Considerations for future environmental impact study
- Emergency Response





Remaining Concerns or Questions...





Planning Study Process


		2017				2018											
		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
 	Stakeholder Workshops Port of Seattle, Magnolia Chamber, Magnolia Community Council, King County Metro, Seattle Parks and Recreation, Seattle Department of Transportation, Sound Transit, Queen Anne Community Council, Magnolia Interbay Queen Anne Disaster Preparedness, Seneca/Expedia, BNSF	Active											Active				
 	Community Councils and Other Community Group Briefings to inform public of the study purpose and present initial components for comment and questions	Active															
 	Present to SDOT Directors, Mayor, and Council Members to review initial and technical screening and present alternatives						Active	Active	Active								
	Drop-in Sessions and Online Open House & Survey to describe Magnolia Bridge history, review evaluation process, present alternatives, and collect community input									Active							
 	Finalize Alternatives Analysis and Present to SDOT Directors, Mayor, and elected officials to summarize community feedback, present the in-kind replacement and an alternative cost & traffic trade-offs, and frame the funding package discussion									Active	Active	Active	Active	Active	Active		
	Ongoing Outreach Activities to conduct an intercept survey in Magnolia Village to better understand behaviors among people visiting and working there and share results of public input and technical analysis													Active	Active	Active	

 Emergency Closure Plan

 Technical screening of components to identify viable alternatives

 Perform alternatives analysis

 Present analysis and information

 Listening to community & agencies

Questions

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