

Alaskan Way Viaduct and Seawall Replacement Program

I-5 Elements	Surface & Transit 1	Surface & Transit 2	Surface & Transit 3	Independent Elevated	Integrated Elevated	Bored Bypass Tunnel	Cut & Cover Tunnel	Lidded Trench
I-5 Elements	A	B	C	D	E	F	G	H
General								
Active Traffic Management System for Freight, Transit & GP Traffic	✓	✓	✓	✓	✓	✓	✓	✓
Active Traffic Management (NB I-90 to SR 520, SB SR 520 to Boeing Access Rd)	✓	✓	✓	✓			✓	✓
Northbound								
Add Second Lane to Collector Distributer (I-90 EB Off to Dearborn On)		✓						
Add Managed Lane (Seneca Street Off to SR 520 Off)		✓	✓	✓			✓	✓
Close Cherry on-ramp (except emergency veh) & add lane to NB CD roadway							✓	
Manage Cherry on-ramp (closed during off-peak hours)		✓	✓					✓
Manage Cherry on-ramp (closed at night) & Close University on-ramp during all hours				✓				
Add Transit Only Lane (Olive Way On to SR 520 Off)	✓				✓	✓		
Southbound								
Convert HOV Lane to Managed Lane (Mercer On to Spokane Off)	✓	✓	✓	✓			✓	✓
45th Ramps HOV Only To/From South (All GP access at 50th)		✓						
Reversible Lanes								
Automate Switch Over	✓	✓	✓	✓	✓	✓	✓	✓
Stewart to HOV & Cherry/Columbia to GP		✓	✓	✓	✓	✓	✓	✓
Modify NB North End Terminus		✓	✓	✓	✓	✓	✓	✓
Industrial Way Transit Direct Access								
NB Industrial Way Transit Off from HOV Lanes		✓	✓		✓			✓
SB Industrial Way Transit On to HOV Lanes		✓						✓
Post 2015								
Add SB Mainline Lane (SR 520 On Spokane Street On)								
Extend SB Auxiliary Lane (N 85th to N 50th)								
Move Yale On to Denny, Braid with Union/James Off								
Extend NB Auxiliary Lane (N 50th to N 85th)								
Braid Spokane Street NB On with I-90 CD Off								
Shift NB Mercer Street On from Left to Right Side								
Shift SB SR 520 On & Off from Left to Right Side								
Add Lane to SB CD (I-90 SB On to Merge)								
Add second through Lane to South Reversible Terminus								
HOV Connection (Reversible Lanes to SR 520)								

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Surface Street Elements	Surface & Transit 1	Surface & Transit 2	Surface & Transit 3	Independent Elevated	Integrated Elevated	Bored Bypass Tunnel	Cut & Cover Tunnel	Lidged Trench
	A	B	C	D	E	F	G	H
Mercer Corridor								
2-way Mercer with 6-lane Aurora Underpass (I-5 to Elliott)		✓				✓	✓	✓
2-way Mercer with 4-lane Aurora Underpass (I-5 to Elliott)	✓		✓	✓	✓			
Aurora North - Connections Across								
Signalize Aurora at Thomas, Harrison, Republican, & Roy	✓	✓	✓					✓
Signalize Aurora at Valley	✓		✓					
Signalize surface Aurora at Thomas, Harrison						✓		
Extend Republican to 6th Ave N	✓	✓	✓					✓
Republican Underpass				✓	✓		✓	
Vacate Broad Street from Harrison to Ninth N				✓	✓		✓	
Vacate Broad Street from Fifth N to Ninth N	✓	✓	✓			✓		✓
Denny Way								
Prohibit left turns at Dexter	✓				✓			✓
Provide Transit Priority at Denny and Aurora Avenue	✓	✓	✓	✓	✓	✓	✓	✓
Widen Denny between Sixth and Eighth to accommodate left turns		✓	✓					
New Transit Lanes								
SR 99/Aurora Transit/BAT Lanes (Denny to 205th)		✓	✓					
SR 99/Aurora Transit/BAT Lanes (Thomas to N 85th)	✓			✓	✓	✓	✓	✓
SR 99 Transit/HOV 3+ Lanes (NB Spokane-Main; SB Washington-RB)	✓		✓	✓	✓	✓	✓	✓
SR 99 Transit/Freight Lanes (NB Spokane-Main; SB Washington-RB)	✓		✓	✓	✓	✓	✓	✓
Main & Washington Streets 1-way Couplet w/ Transit Lanes (Alaskan Way to 4th Ave)	✓	✓	✓	✓	✓	✓	✓	✓
Stewart Street Transit Lane (Eastlake to 2nd Avenue)	✓	✓	✓	✓	✓	✓	✓	✓
Olive Way Transit Lane (4th Avenue to I-5)	✓	✓	✓	✓	✓	✓	✓	✓
Howell Street Transit Lane (9th Avenue to I-5 Express Lane Ramp)	✓	✓	✓	✓	✓	✓	✓	✓
Elliott/15th NW BAT Lanes (Harrison to NW 65th)	✓	✓	✓	✓	✓	✓	✓	✓
Pike & Pine Streets Transit Lanes (1st Ave to I-5)	✓	✓	✓	✓	✓	✓	✓	✓
1st Avenue South Transit Lanes (Spokane to Atlantic Streets)		✓	✓					
1st Ave North southbound Transit Contra-Flow Lane (Denny Way to Mercer Street)	✓	✓	✓	✓	✓	✓	✓	✓
Battery & Wall Street Transit Lanes (Denny Way to Third Ave)	✓	✓	✓					
4th Ave S (Jackson to Royal Brougham)	✓	✓	✓					
5th Ave/5th Ave S (Washington to Terrace)	✓	✓	✓			✓		✓
Madison Street Eastbound Transit Contraflow Lane (1st to 6th Ave)	✓	✓	✓					
Marion Street Westbound Transit Contraflow Lane (1st to 6th Ave)		✓						
1st Avenue								
First Ave 4 Lanes Peak Period Only (King to Cherry Streets)	✓	✓	✓	✓	✓		✓	✓
First Ave 4 Lanes & Left Turn Lane (Cherry to Virginia Streets)	✓	✓	✓	✓	✓		✓	✓
2nd & 4th Avenues								
4 GP Lanes and 1 Transit Lane (Pike to Jackson Streets)		✓	✓					
3 GP Lanes and 2 Transit Lanes (Pike to Jackson Streets)	✓							
3 GP Lanes and 1 Transit Lane (Seneca to Jackson Streets) + bike lane				✓	✓	✓	✓	✓
New Qwest Field North Lot Arterial								
Extend 2nd Ave S and Lane Street 1-way SB (4th Avenue 1-way NB); 2nd Ave Extension Transit and local access; 4th Ave S SB transit contra flow lane (Jackson to Airport Way)		✓						
Extend 2nd Ave S and Lane Street as 2-way			✓					
3rd Avenue								
Transit Only All Day with Limited Local Access (Main Street to Yesler Way)	✓	✓	✓	✓	✓	✓	✓	✓
Transit Only All Day with Limited Local Access (Yesler Way to Virginia Street)	✓	✓	✓					
In-lane Stops (Virginia Street to Denny Way)	✓	✓	✓					
5th Avenue								
Four Lanes, Two Way Airport Way to University	✓							
Four Lanes, Two Way Jackson to University		✓						
Add contraflow GP lane northbound James to Cherry							✓	
6th Avenue								
Extend from Harrison to Roy with overpass over Mercer - 4 lanes two way	✓		✓	✓	✓	✓		
Extend from Harrison to Mercer with tee intersection at Mercer - 4 lanes two way		✓			✓		✓	✓
Restripe 6th Avenue to 4 lanes two way from Denny to Harrison	✓	✓	✓	✓	✓	✓	✓	✓
Restripe 4 lanes two-way (Denny to Westlake)	✓	✓	✓					
Restripe SB contraflow lane (Denny to Wall)				✓	✓	✓	✓	✓
Two-way University-Seneca + SB One-way Seneca-Marion	✓	✓		✓			✓	
7th Avenue								
Restripe to NB One-way 2 lanes Madison to Seneca	✓	✓		✓			✓	
Other Changes								
Spokane Street Viaduct Project	✓	✓	✓	✓	✓	✓	✓	✓
Refine Bus Stop Locations & Operational Strategies to Reduce Turn Conflicts	✓	✓	✓	✓	✓	✓	✓	✓
8th Avenue 2-way (Westlake to Pine Street)	✓	✓	✓	✓	✓	✓	✓	✓
Jackson Street Peak Period 4-lanes (Alaskan Way to 3rd Ave)	✓	✓	✓	✓	✓	✓	✓	✓
East Marginal Way Ramps Grade Separation	✓	✓	✓	✓	✓	✓	✓	✓
Widened one-way westbound street connection on Columbia between First and Western	✓	✓	✓	✓	✓	✓	✓	✓
Surface Street Connections to Industrial Way to I-5 Transit Ramp		✓	✓	✓	✓			✓
Cherry, Columbia, Madison, Spring & Seneca Streets 3-lanes (1st Ave to I-5)	✓	✓	✓	✓	✓	✓	✓	✓
Marion, University & Union Streets 3-lanes (1st Ave to I-5)	✓	✓	✓	✓	✓	✓	✓	✓
Lander Street Overpass of RR (1st to 4th Ave)		✓	✓					
N/NE 50th Street 4-lanes (Stone Way to I-5)		✓						
Freight Routes								
Spokane Viaduct Project	✓	✓	✓	✓	✓	✓	✓	✓
Prioritize freight movement on E Marginal Way	✓	✓	✓	✓	✓	✓	✓	✓
Prioritize freight movement on Spokane Street Corridor	✓	✓	✓	✓	✓	✓	✓	✓
Rehabilitate Airport Way S bridge over Argo Yard to eliminate truck lane use restrictions	✓	✓	✓	✓	✓	✓	✓	✓
Create north Argo Yard access: remove trucks from SR 99 (Marginal ramp to Diagonal)	✓	✓	✓	✓	✓	✓	✓	✓
Maintain over legal dimension freight route through downtown (Alaskan and/or Western)	✓	✓	✓	✓	✓	✓	✓	✓
Mercer Street Direct 2-way route (I-5 to Elliott)	✓	✓	✓	✓	✓	✓	✓	✓
SR 519 Port Facilities Access Improvements (Holgate to King SR 99)	✓	✓	✓	✓	✓	✓	✓	✓
Waterfront Railroad Grade Separated Freight Route via SR 99	✓	✓	✓	✓	✓	✓	✓	✓
Waterfront Railroad Grade Separated Freight Route via Alaskan Way/Western Pair			✓			✓		
2nd & 4th Ave Large Trucks Permitted	✓	✓						
Post 2015								
Aurora Ave Roy Underpass								
Extend Terry Ave over CP Station & I-5 top First Hill								
E3 Busway Transit Ramps to Fifth South and Airport Way								
NB Connection of 7th Ave/Hubbell Place (Madison to Terry Ave Extension)								

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Transit Elements	Surface & Transit 1	Surface & Transit 2	Surface & Transit 3	Independent Elevated	Integrated Elevated	Bored Bypass Tunnel	Cut & Cover Tunnel	Lidded Trench
	A	B	C	D	E	F	G	H
Rapid Ride (beyond current plan)								
Ballard/Uptown, Aurora, West Seattle Enhancements	✓	✓	✓					
Pacific Hwy S Enhancement		✓	✓					
New Delridge Route	✓	✓	✓	✓	✓			✓
New Ballard to UW Route		✓	✓					
New Lake City Way Route	✓	✓	✓	✓	✓			✓
Link LRT: UW to Northgate								
Westlake to UW	✓	✓	✓	✓	✓	✓	✓	✓
UW to Northgate	✓	✓	✓	✓	✓	✓	✓	✓
Souder Commuter Rail (beyond current plan)								
Expand to All Day and Improve Frequency		✓	✓					
Expand Park and Ride		✓	✓					
Streetcar								
International District Station to Broadway Station/1st Hill	✓	✓	✓	✓	✓	✓	✓	✓
Waterfront Alaskan Way	✓		✓	✓		✓	✓	✓
1st Ave (23rd & Jackson to Seattle Center Uptown)		✓	✓		✓		✓	
Ballard/Fremont to Downtown		✓						
University District to Downtown		✓						
Other New Bus Services								
Rapid Trolley Network & Improvements	med	high	high	low	low	low	low	low
Direct Peak Express Services to South Lake Union & Uptown		✓	✓			✓		✓
Direct Peak Express Services to SODO, Pioneer Square & International District		✓	✓			✓		✓
Meet Service Goals for priority elements of Urban Village Transit Network	med	med	med	low	low	low	low	low
Enhance Central Link Feeder Service	✓	✓	✓					
Revised Bus Service								
Madison Street 2-way Trolley Bus Service (Colman Dock to 1st Hill)	✓		✓					
Madison/Marion contraflow couplet (1st Ave to 1st Hill)		✓						
Simplify Trolley Network in City Center	✓	✓	✓	✓	✓	✓	✓	✓
Refine Bus Stop Locations & Operational Strategies to Reduce Turn Conflicts	✓	✓	✓	✓	✓	✓	✓	✓
West Seattle Waterborne Transit (beyond current plan)								
Enhance Frequency and Service Hours		✓	✓					
Expand Feeder Bus Service		✓	✓					
Transit Facility Expansion								
Real Time, On-Street Transit Schedule and Service Information		✓	✓	✓	✓	✓	✓	✓
Burien, White Center, Aurora/192nd & Lake Forest Park Park & Ride Expansion		✓	✓	✓	✓	✓	✓	✓
Additional Downtown Off-street Terminal & Layover Capacity	✓	✓	✓	✓	✓	✓	✓	✓
Post 2015								
Light Rail Extension: Northgate to Lynnwood								
Light Rail Extension: Downtown Seattle to Redmond								
Light Rail Extension: SeaTac to Tacoma								
Ballard Surface Light Rail from Downtown in 15th Ave Corridor								
Souder two-way service in peaks								
West Seattle Enhanced BRT additional corridors								

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Surface & Transit 1 NEW
Surface & Transit 2
Surface & Transit 3
Independent Elevated
Integrated Elevated
Bored Bypass Tunnel
Cut & Cover Tunnel
Lidded Trench

SR 99 Elements	A	B	C	D	E	F	G	H
Alaskan Way Surface Roadway								
Boulevard Two-Way	✓	✓		✓			✓	✓
Central Waterfront # of Thru Lanes	4	4		4			4	4
One-Way Couplet: Alaskan Way & Western			✓		✓	✓		
Central Waterfront Basic Lanes			3/3		2/2	3/3		
Couplet Crossover Concept: Tunnel under Market			✓			✓		
SR 99 Cross Sections (space in waterfront between streetwalls is 180-200')								
Surface Roadway two-way = four 11' lanes, one 12' turn, two 5' bike, one 8' parking	84'	84'						
Surface Roadway one-way = three 11' lanes, one 5' bike, one 10' loading, one 8' parking			56'					
Elevated = four 12' lanes, two 10' shoulders (R), two 4' shoulder (L) + 8'				84'				
Cross Section Under Development					70' - 80'			
Tunnel Bores (2) = two 12' lanes, one 10' shoulder (R), one 4' shoulder (L) + 4'						2x42'		
Tunnel = four 12' lanes, two 10' shoulders (R), two 4' shoulders (L) + 6'							82'	
Tunnel = four 12' lanes, two 10' shoulders (R), two 4' shoulders (L) + 8'								84'
Alaskan Way Surface Cross Sections (space in waterfront between streetwalls is 180-200')								
Four 11' lanes, 12' turn lane, two 5' bike, one 10' loading, one 8' parking	84'	84'		84'			84'	
Three one way (SB) 11' lanes, one 5' bike, one 10' loading, one 8' parking			56'			56'		
Cross Section Under Development					TBD			
Four 11' lanes, two bike lanes, two 9' parking								72'
Eastside sidewalk	20'	20'	20'	20'	15'	20'	20'	15'
Promenade	76'	76'	104'	TBD	TBD	104'	76'	70'
Battery Street Tunnel Lanes								
Unchanged from existing (lanes = 2 NB + 2 SB)	✓	✓	✓	✓	✓			✓
Possible Lane Reductions						1n/1s	2n/1s	
Connections to Elliott/Western								
Eliminate existing NB on and SB off ramps to/from BST/SR 99	✓	✓	✓	✓	✓	✓	✓	✓
NB off- and SB on-ramps from SR 99 limited access; Over Elliott/Western				✓				
NB off- and SB on-ramps from SR 99 limited access; Under Elliott/Western					✓		✓	
Surface roadway in prior viaduct area (two-way); Signalized intersections	✓	✓						✓
Surface roadway using couplet (NB = Western, SB = hill ROW); Signalized intersections			✓			✓		
Waterfront surface street linkage North Alaskan Way								
Continuous Alaskan Way similar to current alignment				✓			✓	✓
T intersection near Pine Street	✓	✓	✓			✓		✓
University crossover from Western to north Alaskan Way			✓		✓	✓		
Aurora North - Connections Across								
Signalize Aurora at Thomas, Harrison, Republican, & Roy	✓	✓	✓					✓
Signalize Aurora at Valley	✓		✓					
Signalize surface Aurora at Thomas, Harrison						✓		
Republican Underpass				✓	✓		✓	
Vacate Broad Street from Harrison to Ninth N				✓	✓		✓	
Vacate Broad Street from Fifth N to Ninth N	✓	✓	✓			✓		✓
Waterfront Streetcar								
In-street (double track)				✓				
In-promenade (single track)	✓		✓			✓	✓	✓
None		✓			✓			
Bicycle Facilities								
Bike Lanes on Alaskan Way	✓	✓		✓			✓	✓
Bike lanes Alaskan Way SB/Western NB			✓			✓		
Off-street Trail in promenade					✓			
Pedestrian Facilities								
Eastside sidewalk	20'	20'	20'	20'	15'	20'	20'	15'
Central Waterfront Promenade/Public Space	76'	76'	104'	TBD	TBD	104'	76'	70'

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TDM/TSM Elements	A	B	C	D	E	F	G	H
Level of Actions								
Baseline						✓		
Moderate		✓	✓	✓	✓		✓	✓
Maximum	✓							