

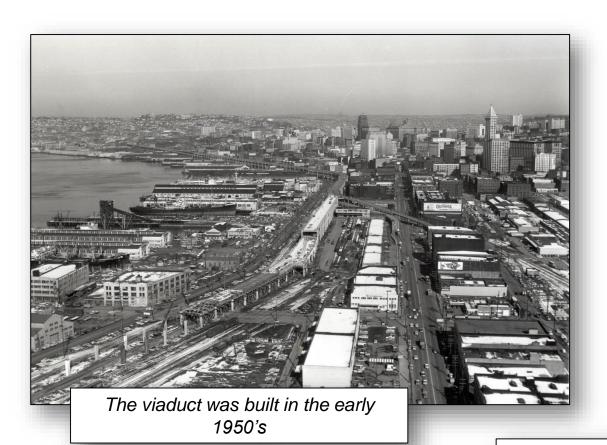
JOINT TRANSPORTATION COMMITTEE ALASKAN WAY VIADUCT REPLACEMENT PROGRAM UPDATE

BRIAN NIELSEN, Program Administrator December 13, 2018

Roger Millar, Secretary of Transportation

Keith Metcalf, Deputy Secretary of Transportation

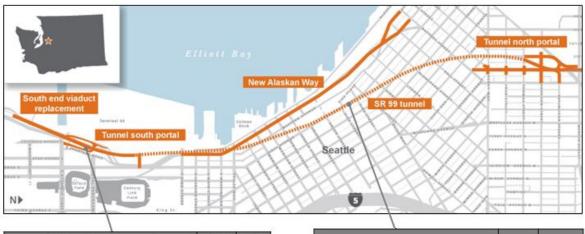
THIS IS A SAFETY PROJECT





Columns reinforced after 2001 earthquake

COMPLETED PROJECTS



South-end replacement	Start	End
Electrical line relocation	2008	2009
Holgate to King (stage 1)	2009	2009
Holgate to King (stage 2)	2010	2012
Holgate to King (Stage 3)	2012	2014

- ¹ Per City of Seattle's Waterfront Seattle schedule
- ² Per Seattle Tunnel Partners' most recent schedule
- ³ Partially funded by the state
- ⁴ Per 2014 legislation, additional mitigation funding is being provided by WSDOT from funds outside the AWV Program

SR 99 tunnel	Start	End
SR 99 tunnel main contract	2011	2018
North Access Project	2014	2017
South Access – SR 99 Connections	2018	2019
South Access – Surface Street Connections	2019	2020
South Access (S. Dearborn Street off-ramp)	2016	2017
South Access (drilled shafts)	2014	2014

= completed project

	=	in	progr	es
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Miscellaneous projects	Start	End
Trager Building demolition	2007	2007
Viaduct column stabilization near Yesler Way	2007	2008
WOSCA Building demolition	2009	2009
Pier 48 warehouse demolition	2010	2010
Automated viaduct closure gates	2010	2011
Western Building structural work	2011	2017
SR 99 south-end fiber replacement	2011	2011
Alaskan Way widening	2012	2012
Cedarstrand Building demolition	2012	2012
SR 99 Demolition, Decommissioning and Surface Street	2018	2020
New Alaskan Way ¹	2019	2023

Mitigation projects	Start	End
Wildigation brojects	Start	Lila
SR 519 Phase 2	2008	2010
Spokane Street Viaduct Fourth Ave. off- ramp ³	2008	2010
I-5 active traffic management	2009	2010
I-5 active traffic management sign bridges	2009	2009
I-5 travel time signs	2009	2009
City street intelligent transportation systems	2009	2010
SR 99 intelligent transportation systems	2010	2011
Enhanced transit/demand management ⁴	2010	2014
Parking mitigation for central waterfront	2011	2019



PROGRAM SCHEDULE









2018

Tunnel preparation

Fall 2018:

- Switch Alaskan Way travel lanes west (complete)
- Complete tunnel systems testing
- Operations, maintenance and emergency responder staff training
- Preparatory tunnel onand off-ramp work

SR 99 closure

Jan. 4:

 On- and off-ramps near stadiums close
 In 11:

<u>Jan. 11</u>:

- Full SR 99 closure begins
- Finish eight ramps to/from new tunnel
- Realign SR 99 into new tunnel
- Tunnel grand opening celebration

Early 2019

Tunnel opens

Feb*:

- Closure ends and SR 99 tunnel opens
- SR 99 NB off-ramp to downtown and Alaskan Way opens

Work begins

Feb*:

- Viaduct removal
- Closing and filling Battery Street Tunnel
- Rebuilding three blocks of Aurora Avenue North

*Closure is approximately three weeks long but duration will depend on progress.



SR 99 CLOSURE

- Duration: about three-weeks for SR 99 closure and up to three weeks of ramp closures
- Closing a highway adds more drivers to other parts of the system: 90,000 vehicles per day, including several thousand trucks, and buses have to use another route
- Expect long backups: On I-5 and routes into downtown Seattle, especially during peak commute times
- Major change to transportation system:
 New SR 99 tunnel will open, other
 construction continues



SR 99 CLOSURE: WHEN AND WHY

When

The closure will begin on Jan. 11, 2019: The closure will take place just before the new SR 99 tunnel opens.

Why

Connecting SR 99 to the tunnel: Crews will have to work in the path of SR 99's current configuration to connect SR 99 to the new tunnel. The graphics below show the path of SR 99 today (yellow) and work zones during the closure (orange).



South SR 99 tunnel portal



North SR 99 tunnel portal

SR 99 CLOSURE AND TUNNEL OPENING: GET READY

Keeping people and goods moving

- WSDOT, SDOT, Port of Seattle, King County Metro, Sound Transit implementing transportation management strategies.
- Incident response teams, increased staffing in transportation management centers, signal timing plans, uniformed police officers at key intersections, additional water taxi runs, standby Metro coaches, and more.
- Actively monitoring the transportation system.

We need the public's help: make a plan for #Realign99

- Shift your travel time
- Carpool or vanpool
- Use transit, particularly light rail and King County Water Taxi
- Stay off the road: work from home, postpone discretionary trips, take time off, if you can
- Bike or walk
- Be prepared for your new route when the SR 99 tunnel opens









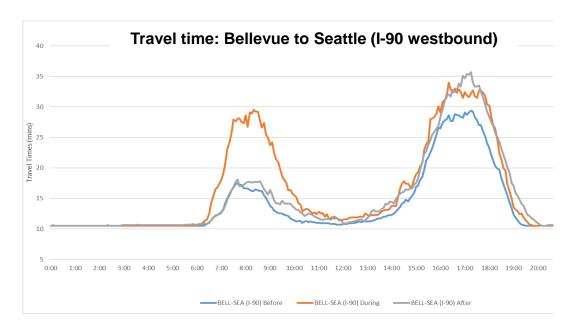


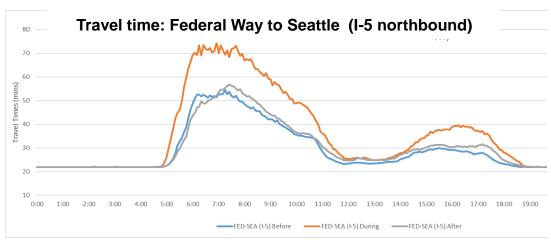






REGION-WIDE TRAFFIC EFFECTS





What we experienced during nine-day SR 99 closure in 2016

- Region-wide impacts: higher travel times on I-5, SR 520, I-90
- Peak commutes started earlier and lasted longer
- More vehicles on downtown streets
- Sound Transit commuter rail ridership increased by 5 to 10%
- West Seattle water taxi ridership increased 135%, Vashon passenger ferry service increased by 27%
- Longer travel times for King County Metro buses rerouted off SR 99
- More cyclists on the road to avoid congestion

CHANGING TRAFFIC PATTERNS





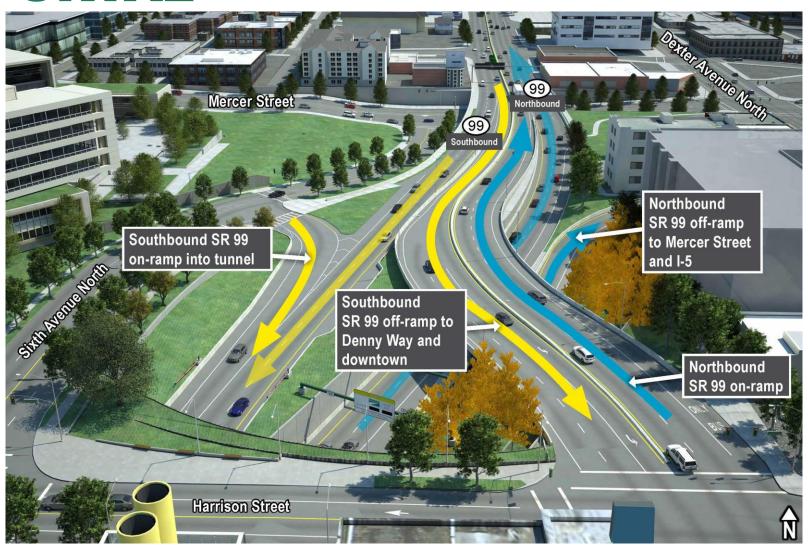
Opening the new SR 99 tunnel is just the start:

- Tunnel will open toll-free for a period of time.
- Traffic patterns will change because we are changing access to SR 99.
- Construction continues after the tunnel opens to drivers.

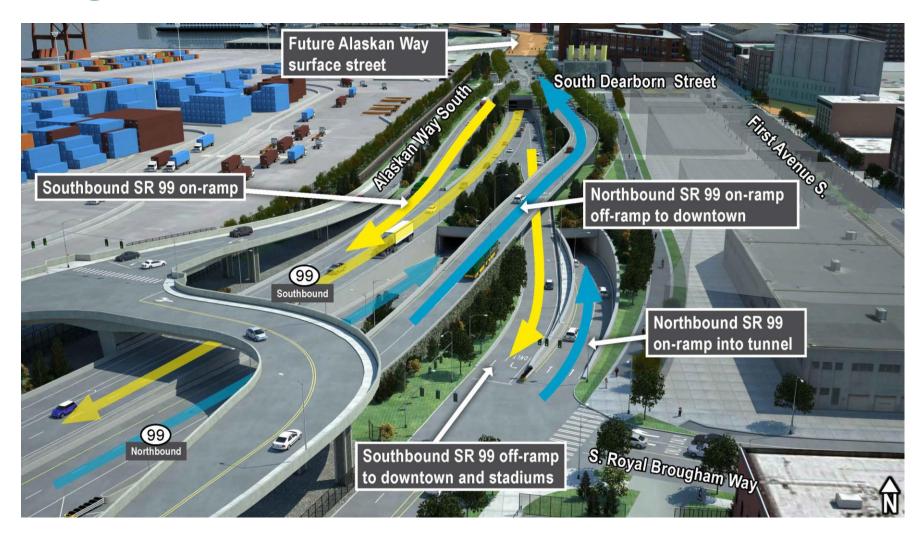
Seattle will experience ongoing change:

- It will take time before traffic patterns settle out.
- Tolls range from \$1 to \$2.25 with a Good To Go pass.
- Some trips will be quicker and others will be longer.
- The City will rebuild the new Alaskan Way, which will open in 2021.

NEW RAMPS AT THE NORTH PORTAL



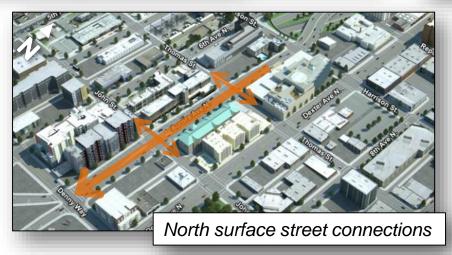
NEW RAMPS AT THE SOUTH PORTAL



CONSTRUCTION AFTER THE SR 99 TUNNEL OPENS







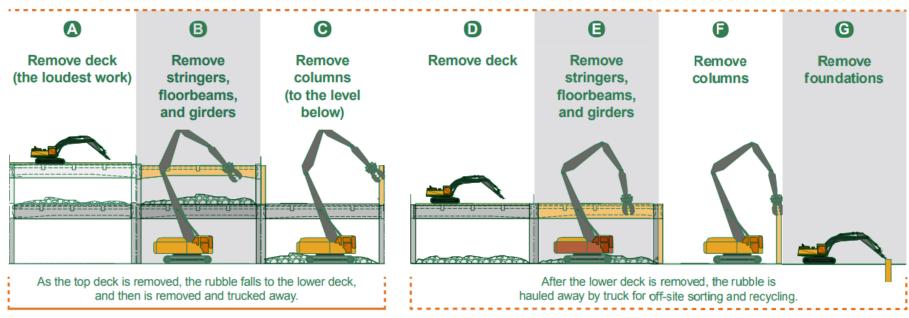
- Design-build contract
- Kiewit Infrastructure West Co.

VIADUCT DEMOLITION



VIADUCT DEMOLITION

The viaduct will be removed one frame at a time. Most frames will be prepped, demolished and cleared within 30 days, following the sequence below:



Side view of the span removal process. A span is a section of the viaduct between columns. One frame is typically made up of three spans.

Scheduled for completion by summer 2019

BATTERY STREET TUNNEL DECOMISSIONING

PHASE 2 Low-density cellular concrete will be mixed nearby and then pumped into the tunnel through surface vents along Battery Street. Mixing concrete on-site will eliminate trucking 4,000 loads of concrete on local roads. PHASE 1 Crews will fill the Battery Street Tunnel to about seven feet from its ceiling with viaduct rubble, from north to south. This material will be brought into the tunnel via the tunnel's south end and from the surface, and then compacted.

Surface Vents

Scheduled for completion by early 2021

NORTH SURFACE STREET CONSTRUCTION

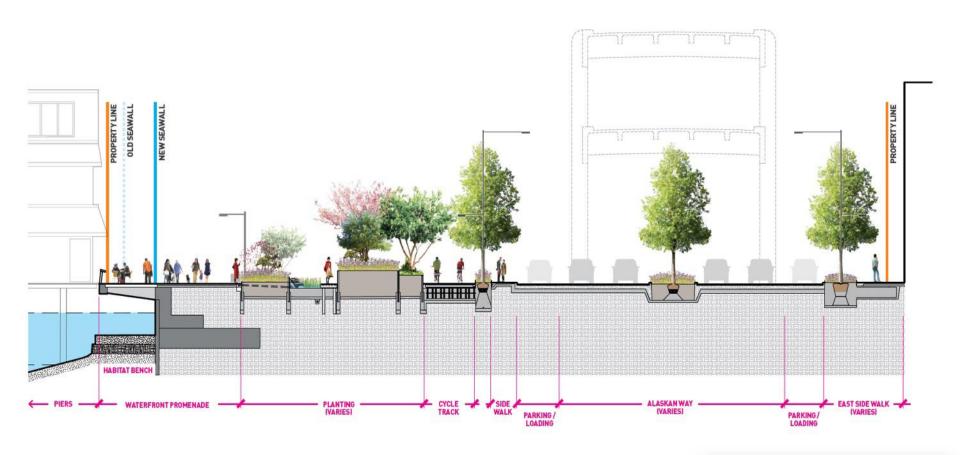




Scheduled for completion by spring 2020

THE FUTURE OF SEATTLE'S **DOWNTOWN WATERFRONT**





Courtesy of City of Seattle Office of the Waterfront

BUDGET OVERVIEW



Other project contracts \$1.19 billion

Tunnel portals and connections \$605 million



WSDOT's contract with Seattle Tunnel Partners \$1.5 billion

= \$3.3 billion



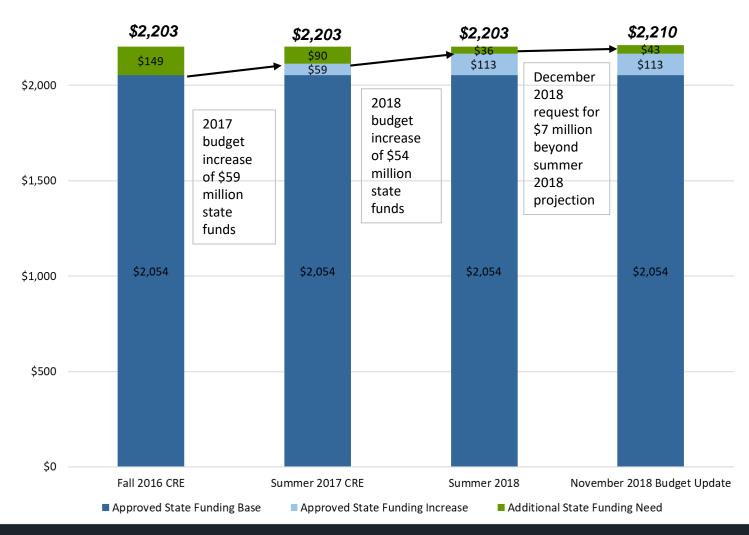
OVERALL BUDGET FORECAST PROGRESSION

\$ Million



STATE FUNDING PROGRESSION CHART

\$ Million \$2,500



BUDGET NEEDED TO COMPLETE PROGRAM

Total budget need: \$43 million

Cost risk evaluation

- Annual process to update base costs and evaluate risks
- Statistical modeling to assess programmatic risks

Remaining costs and risks:

- Market conditions for future contracts
- Ongoing negotiations with contractors
- Unforeseen construction issues, including work necessary to address impacts during the SR 99 closure and following tunnel opening

PROGRAM SCHEDULE

	2018	2019	2020	2021	2022	2023
Bored Tunnel ¹						
SR 99 Connections						
SR 99 Demolition, Decommissioning and Surface Street Project		Viaduct demolition				
South Access: Surface Street Connections						
Waterfront Seattle Main Corridor Project (Alaskan Way/Elliott Way) ²				O New Alaska	n Way open	

¹ Per Seattle Tunnel Partners' most recent schedule



² Per City of Seattle's Waterfront Seattle schedule

STEP FORWARD

Saturday, Feb. 2, 2019

- Fun run
- Ribbon cutting ceremony
- Public festival
- Public tunnel walk/access
- Goodbye to the viaduct/ hello waterfront

Sunday, Feb. 3, 2019

Bike ride

Visit 99StepForward.com for more information



HOW TO REACH US



WSDOT Live Traffic Cameras

www.wsdot.com/traffic/seattl e/default.aspx

WSDOT Travel Times

www.wsdot.com/traffic/travel times/default.aspx

SDOT Traveler Information Map

web6.seattle.gov/travelers

Transit Alerts

kingcounty.gov/metro/signup

Travel News on Twitter

- @WSDOT_traffic
- @SDOTtraffic
- @KCMetroBus
- @SoundTransit
- @MyCommTrans

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