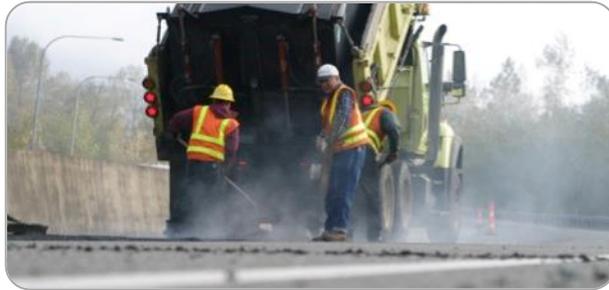


Alaskan Way Viaduct Replacement Program



Lynn Peterson
Secretary of Transportation

Linea Laird
Assistant Secretary

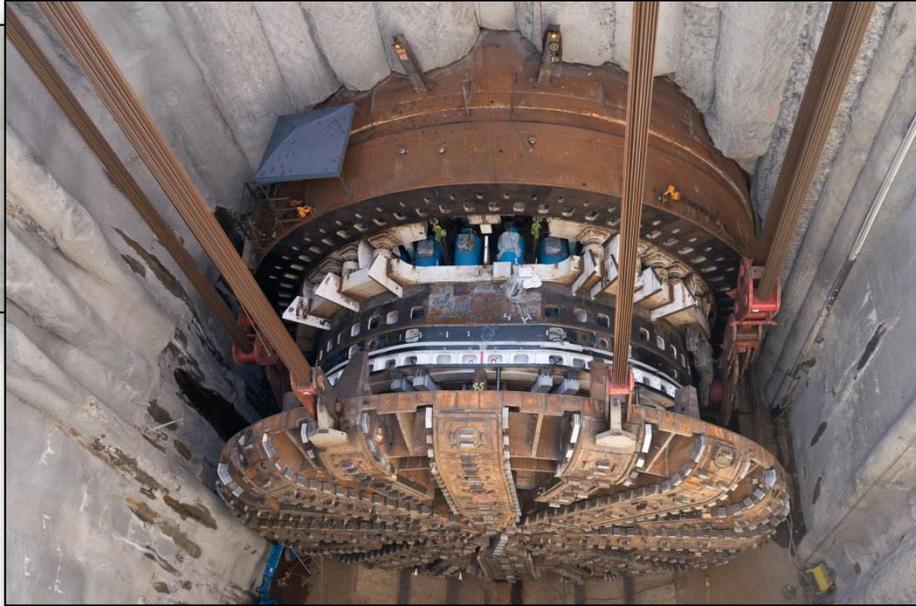
Todd Trepanier
Program Administrator

Roger Millar
Deputy Secretary

Chris Dixon
Project Manager,
Seattle Tunnel Partners

Joint Transportation Committee
October 22, 2015

Today's Agenda



- Program overview
- SR 99 Tunnel Project overview
- Program budget update
- Other construction progress
- Next steps

Program History



2001

Nisqually earthquake damages viaduct.

2004

Draft EIS analyzes five alternatives.

2006

Supplemental Draft EIS analyzes two alternatives.

2007

No/no advisory vote leads to new approach.

2009

Governor signs bill endorsing bored tunnel alternative.

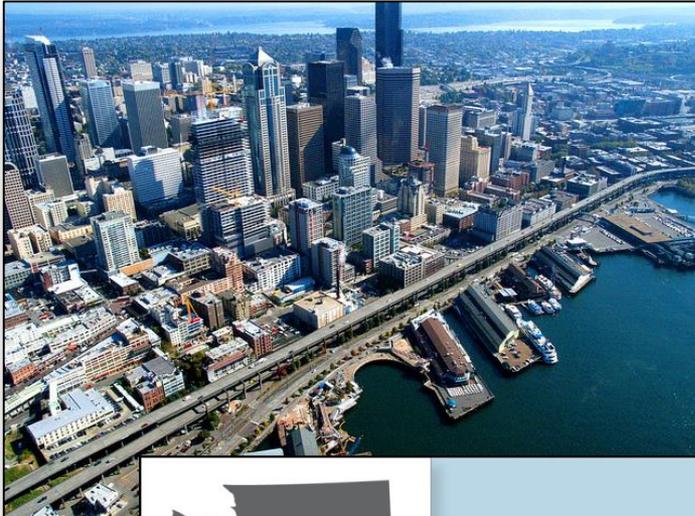
2010

Supplemental Draft EIS analyzes bored tunnel.

2011

Final EIS and Record of Decision issued. Design-build contract signed.

Building a new SR 99 Corridor



Completed Work

Map of state-led/funded improvements



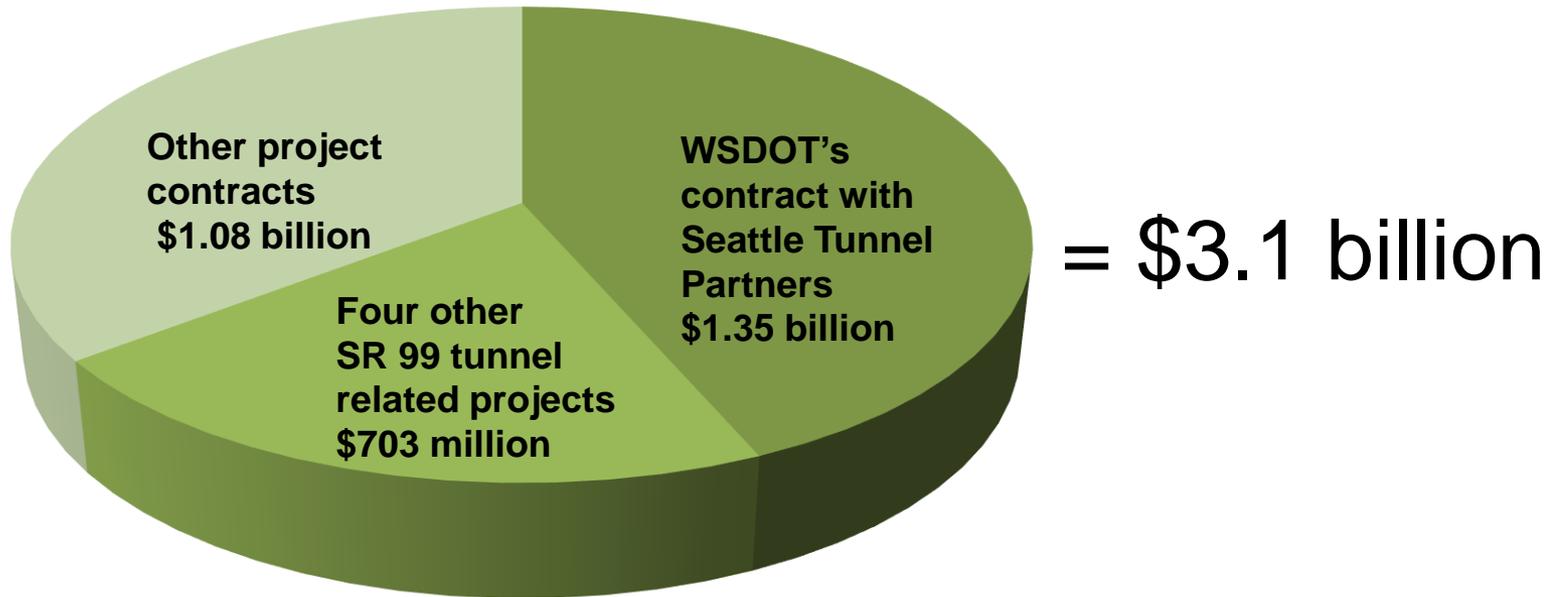
South-end replacement	Start	End
Electrical line relocation	2008	2009
Holgate to King (stage 1)	2009	2009
Holgate to King (stage 2)	2010	2012
Holgate to King (Stage 3)	2012	2014

SR 99 tunnel	Start	End
SR 99 tunnel main contract	2011	TBD
North Access Project	2014	TBD
North Surface Street Connections	TBD	TBD
South Access Project	TBD	TBD
South Access (drilled shafts)	2014	2014

Mitigation projects	Start	End
SR 519 Phase 2	2008	2010
Spokane Street Viaduct Fourth Ave. off-ramp*	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**	2010	2014
Parking mitigation for central waterfront	2011	2018

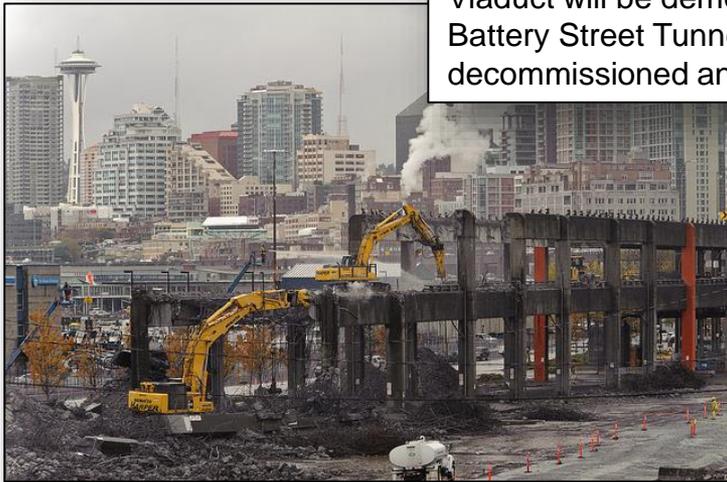
Miscellaneous projects	Start	End
Trager Building demolition	2007	2007
Viaduct column stabilization near Yesler Way	2007	2008
WOSCA Building demolition	2009	2009
Pier 48 warehouse demolition	2010	2010
Automated viaduct closure gates	2010	2011
Western Building structural work	2011	2015
SR 99 south-end fiber replacement	2011	2011
Alaskan Way widening	2012	2012
Cedarstrand Building demolition	2012	2012
Waterfront viaduct removal	TBD	TBD
Battery Street Tunnel decommissioning	TBD	TBD
New Alaskan Way	TBD	TBD

Budget Overview

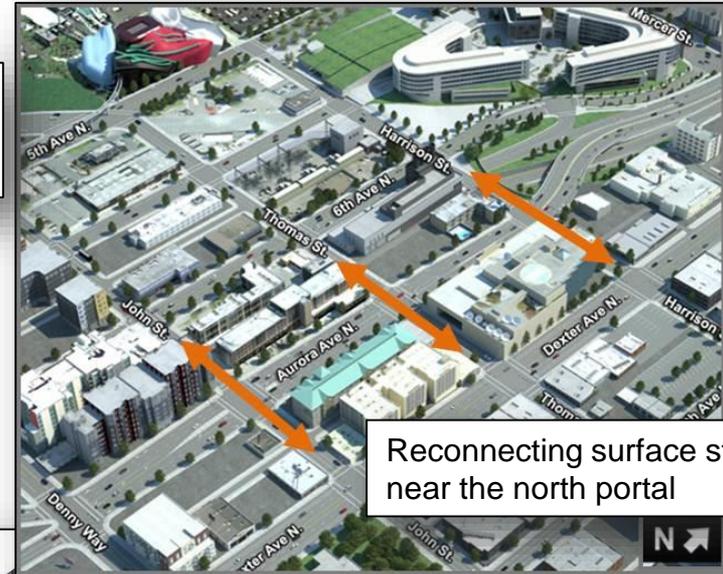


The path forward

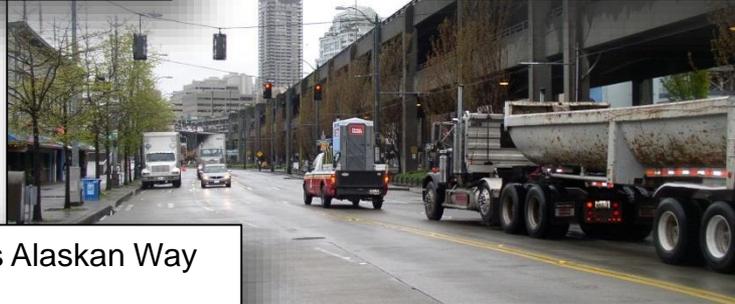
Additional projects will begin after the tunnel opens to traffic



Viaduct will be demolished and Battery Street Tunnel will be decommissioned and filled in



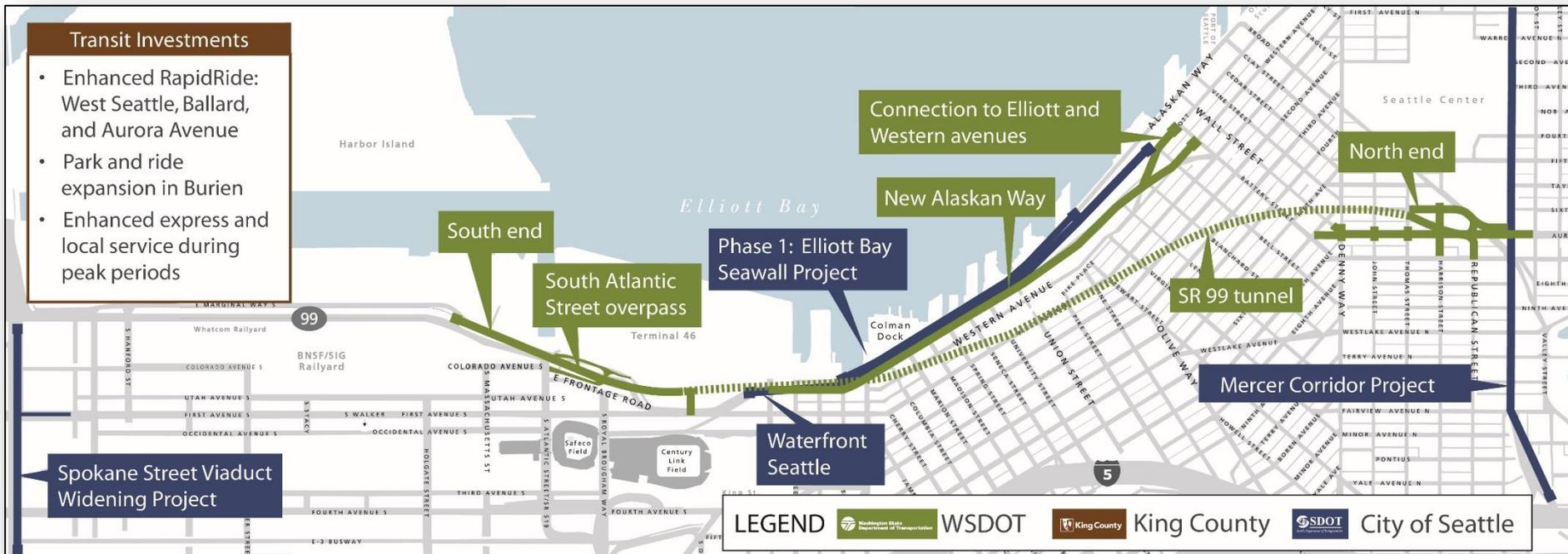
Reconnecting surface streets near the north portal



City of Seattle rebuilds Alaskan Way along the waterfront

Working with our partners

The Alaskan Way Viaduct Replacement Program includes projects led by the Washington State Department of Transportation, City of Seattle, King County and Port of Seattle.



Today's Agenda



- Program overview
- **SR 99 Tunnel**
Project overview
- Program budget update
- Other construction progress
- Next steps

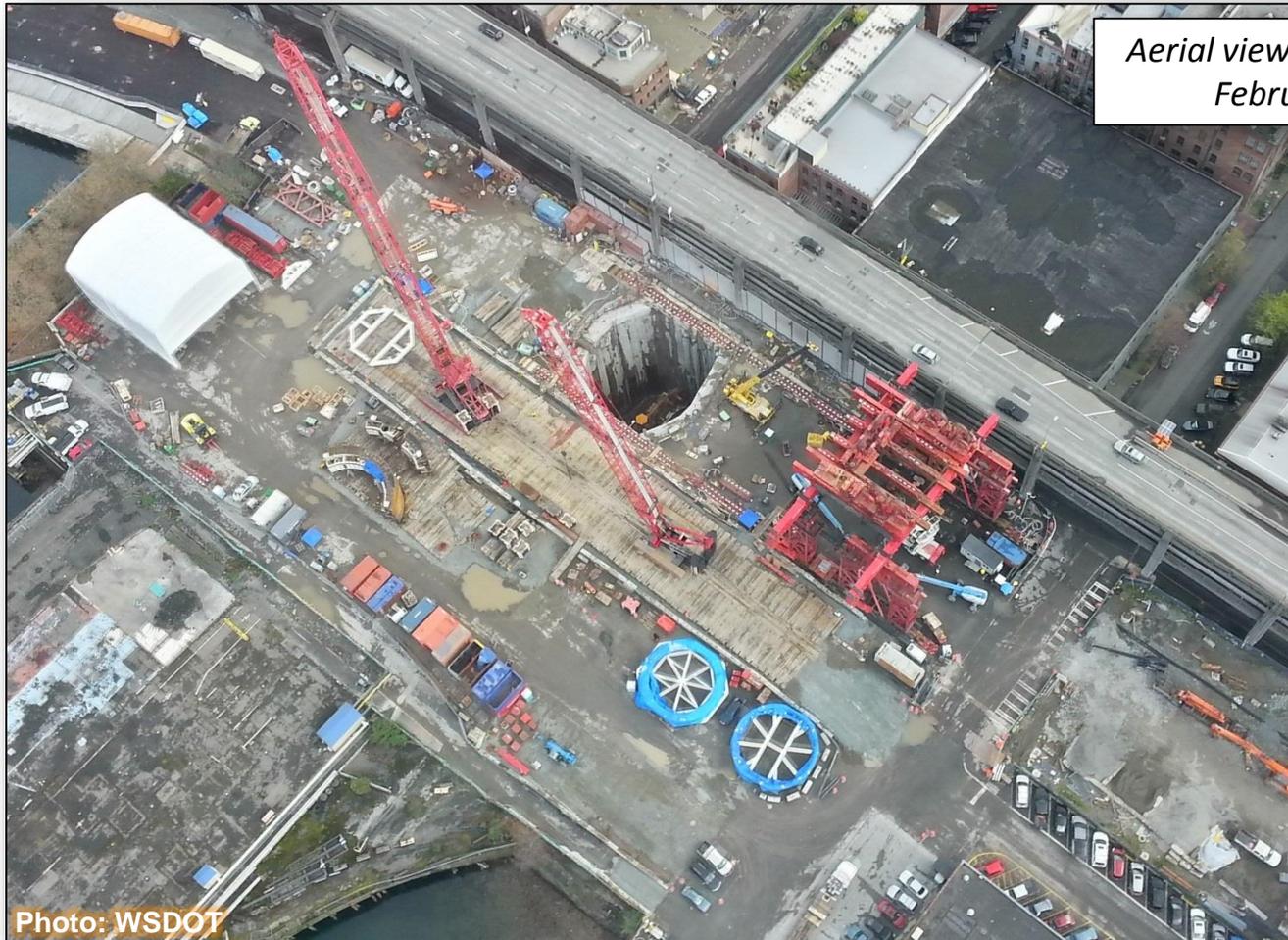
Design build contract



The SR 99 tunnel contract ensures that:

- Majority of work will be completed for a fixed cost.
- Better predictability of final cost at the onset.
- Allows contractor to determine final design and construction methods.
- WSDOT and contractor staff located together.

Repairing Bertha



*Aerial view of access shaft
February 2015*

Photo: WSDOT

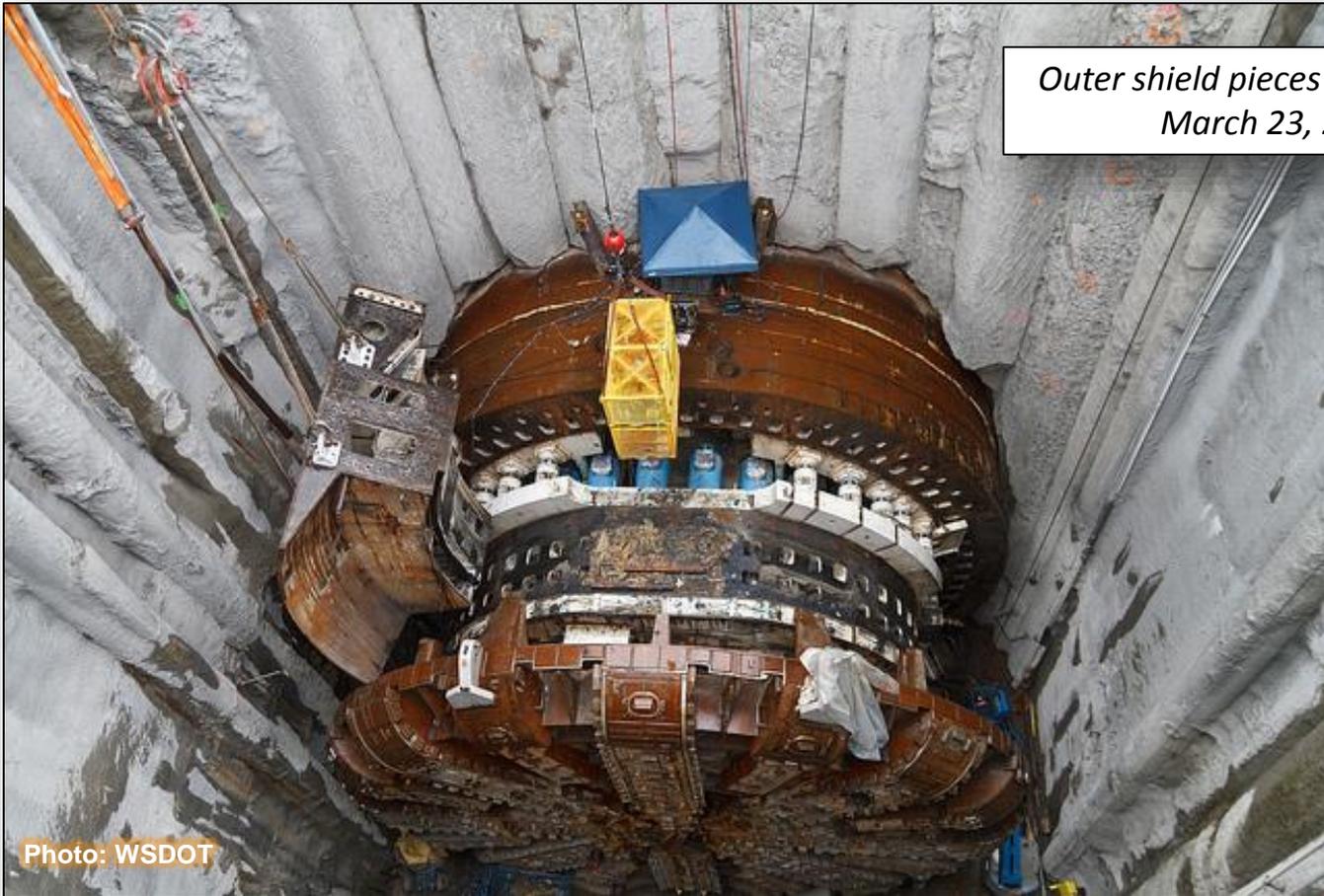
Repairing Bertha



*Bertha's breakthrough
Feb. 19, 2015*

Photo: WSDOT

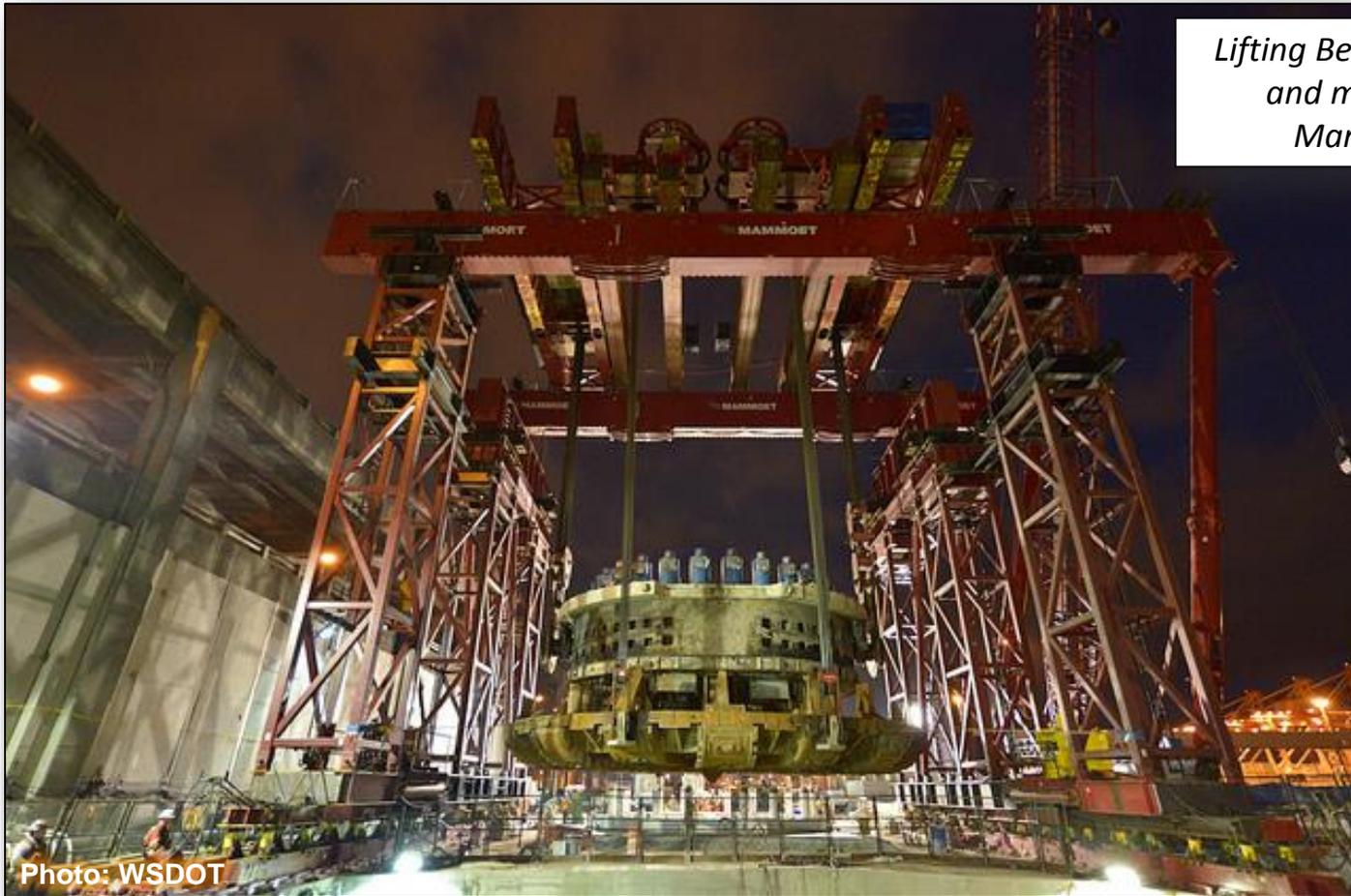
Repairing Bertha



*Outer shield pieces are removed
March 23, 2015*

Photo: WSDOT

Repairing Bertha



*Lifting Bertha's cutterhead
and main drive unit
March 30, 2015*

Photo: WSDOT

Repairing Bertha



*Aerial view of
SR 99 tunneling machine repairs
May 8, 2015*

Photo: WSDOT

Repairing Bertha



*Installing the inner seal ring
June 4, 2015*

Photo: WSDOT

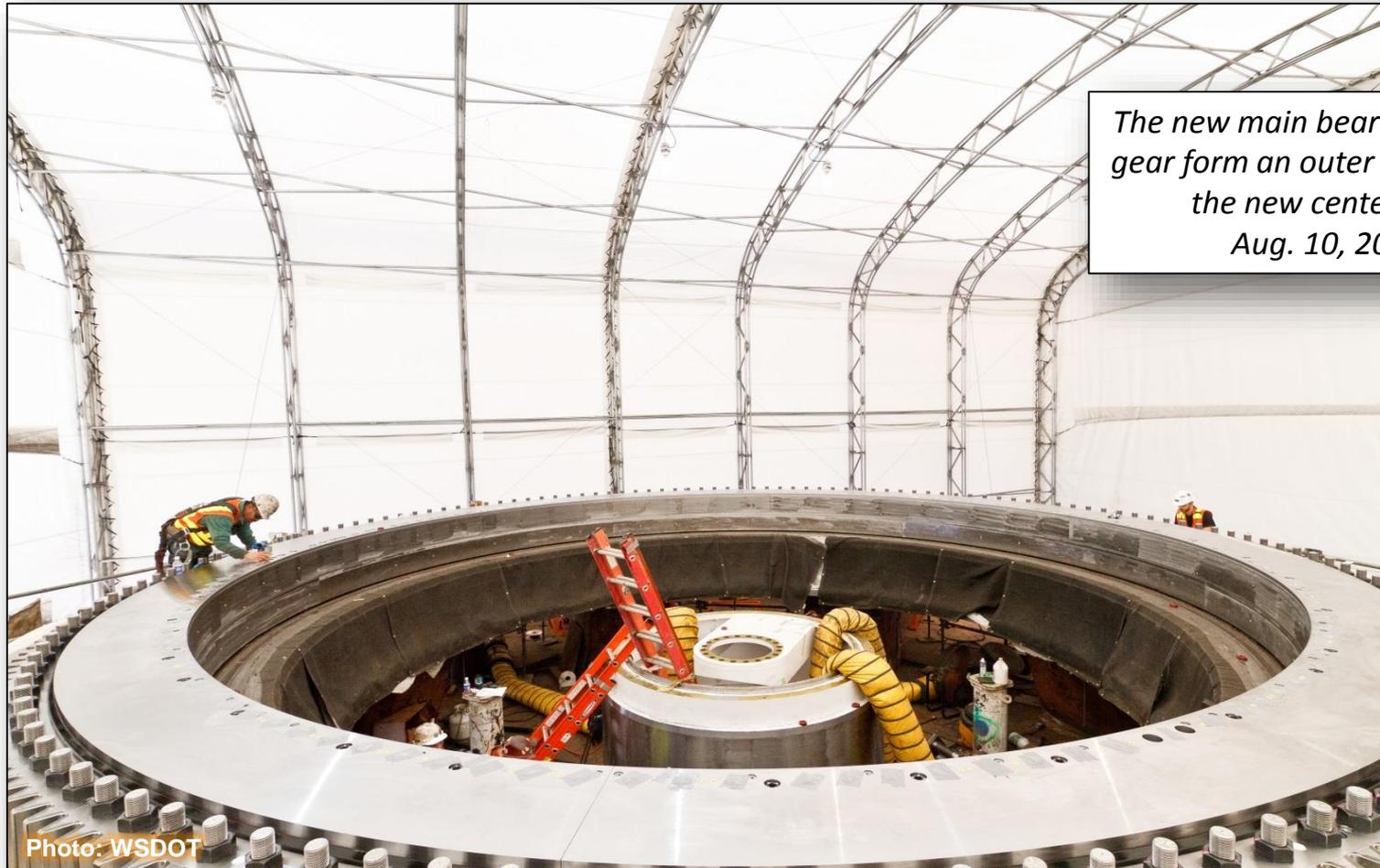
Repairing Bertha



Photo: WSDOT

*Replacing and adding
Bertha's cutting tools
July 29, 2015*

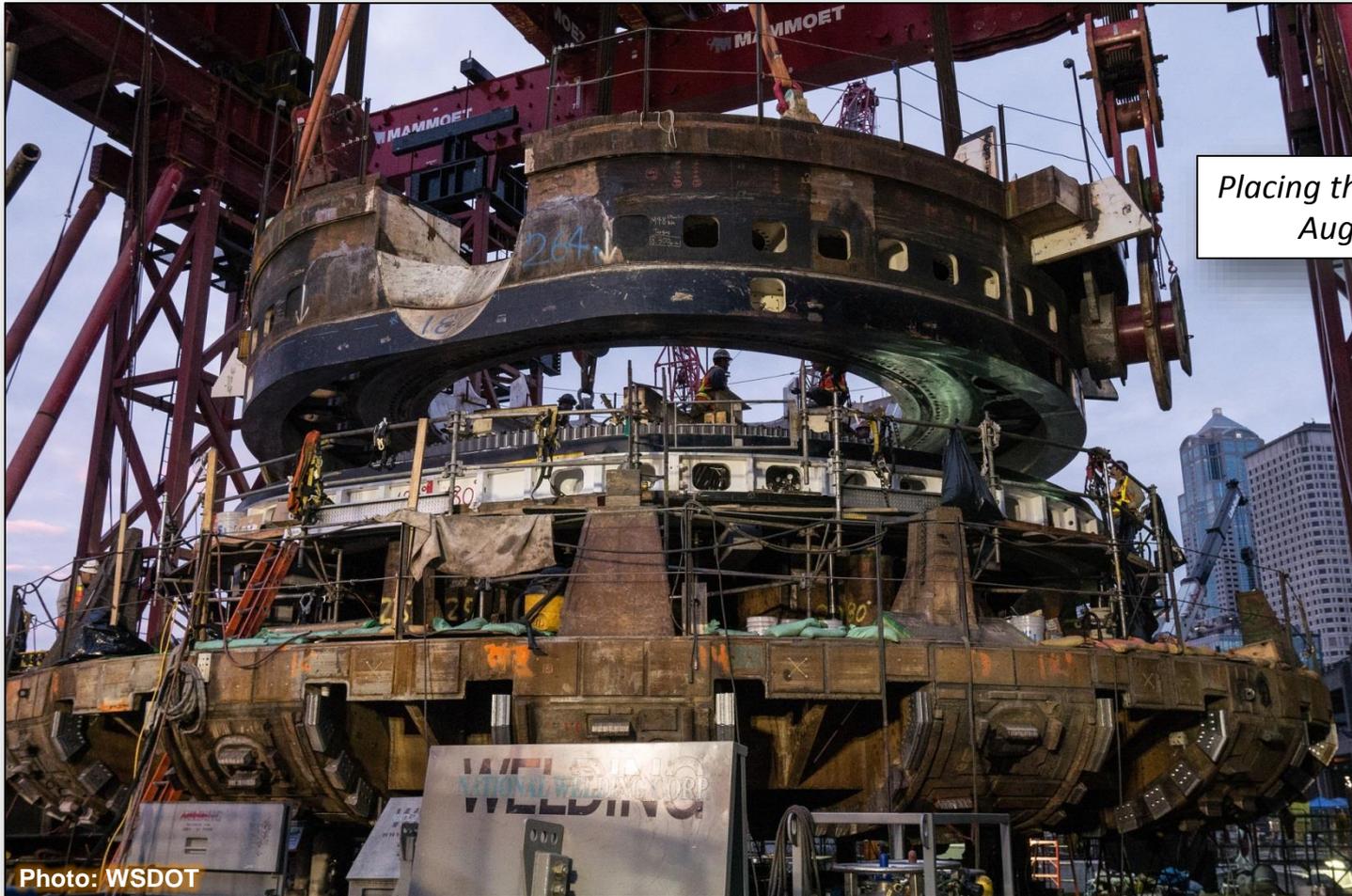
Repairing Bertha



*The new main bearing and bull gear form an outer ring around the new center pipe
Aug. 10, 2015*

Photo: WSDOT

Repairing Bertha



*Placing the bearing block
Aug. 15, 2015*

Photo: WSDOT

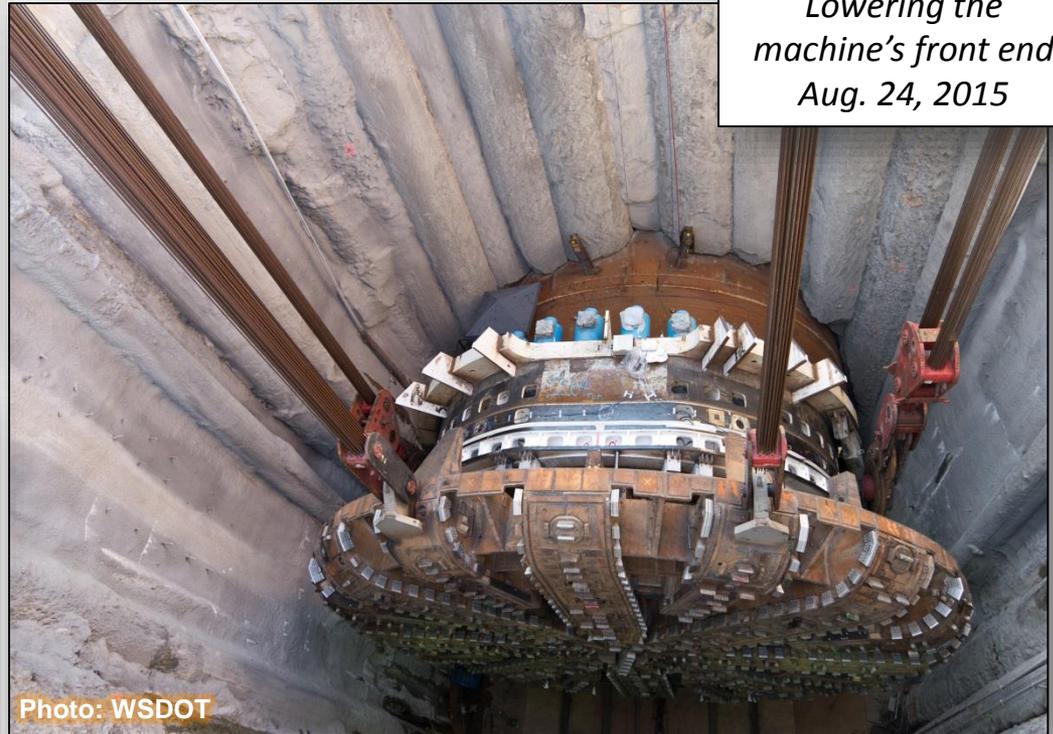
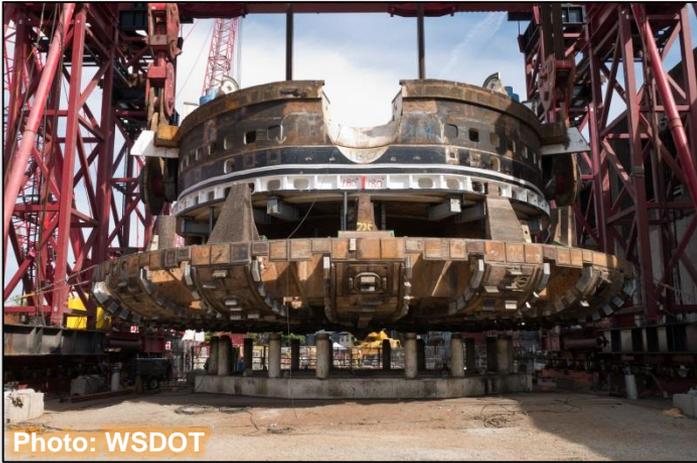
Repairing Bertha

*Drive motors
in place
Aug. 21, 2015*



Photo: WSDOT

Repairing Bertha



Repairing Bertha

*Welding
reinforcing steel
Sept. 17, 2015*



Photo: WSDOT

Repairing Bertha

*Fine-tuning
cutterhead
position
Sept. 18, 2015*



Photo: WSDOT

Repairing Bertha



Photo: WSDOT

*Reconnecting
cables and hoses
Sept. 18, 2015*



Photo: WSDOT

Repairing Bertha – Video



<https://youtu.be/j4sHZzcDqIU>

Repairing Bertha

STP's next steps

- Complete welding, reconnect cables and hoses
- Phase 1: Measurements
- Phase 2: No-load test
- Backfill access pit
- Phase 3: Load test
- Mine to planned maintenance stop (Safe Haven 3)

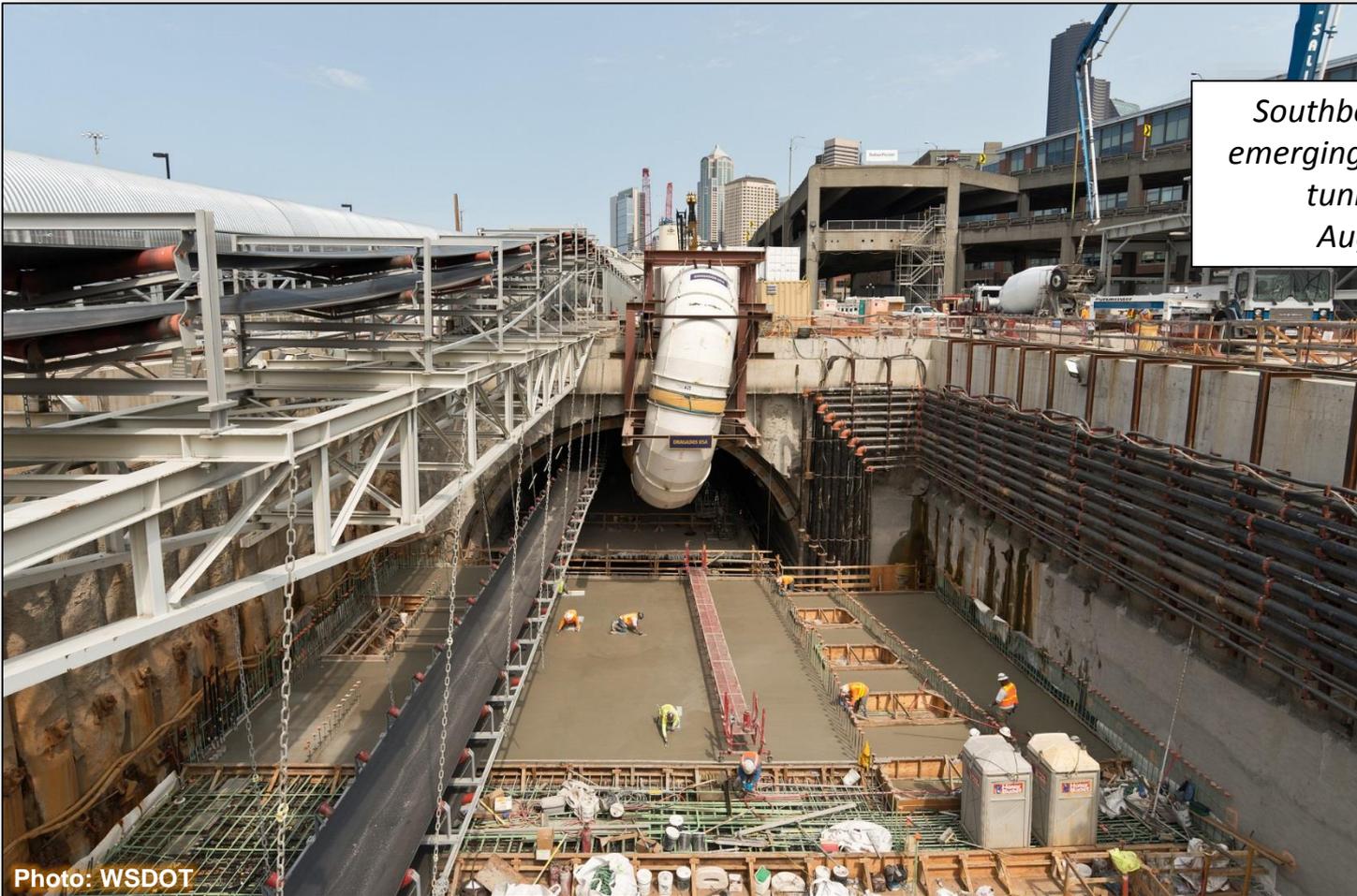
Building the South Portal



South portal
Sept. 14, 2015

Photo: WSDOT

Southbound roadway



*Southbound roadway
emerging from the bored
tunnel section
Aug. 3, 2015*

Photo: WSDOT

Southbound roadway



Photo: WSDOT

*Southbound roadway deck
platform construction
July 2015*

Northbound roadway

*Future northbound
mainline tunnel entrance
Oct. 2, 2015*



Photo: WSDOT

Northbound roadway

*Northbound tunnel
on-ramp from
Atlantic Street
Oct. 2, 2015*



Photo: WSDOT

Building the receiving pit

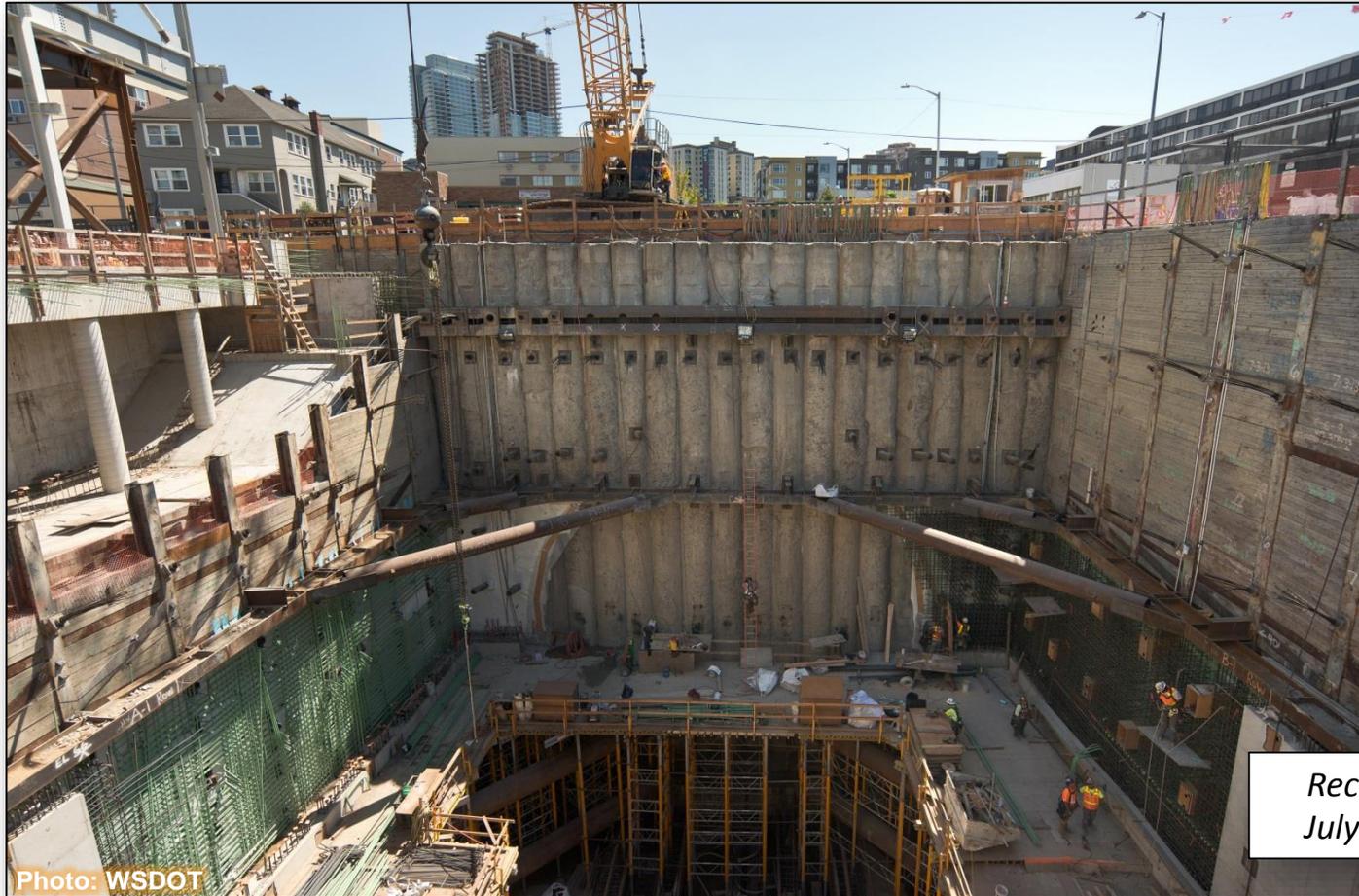
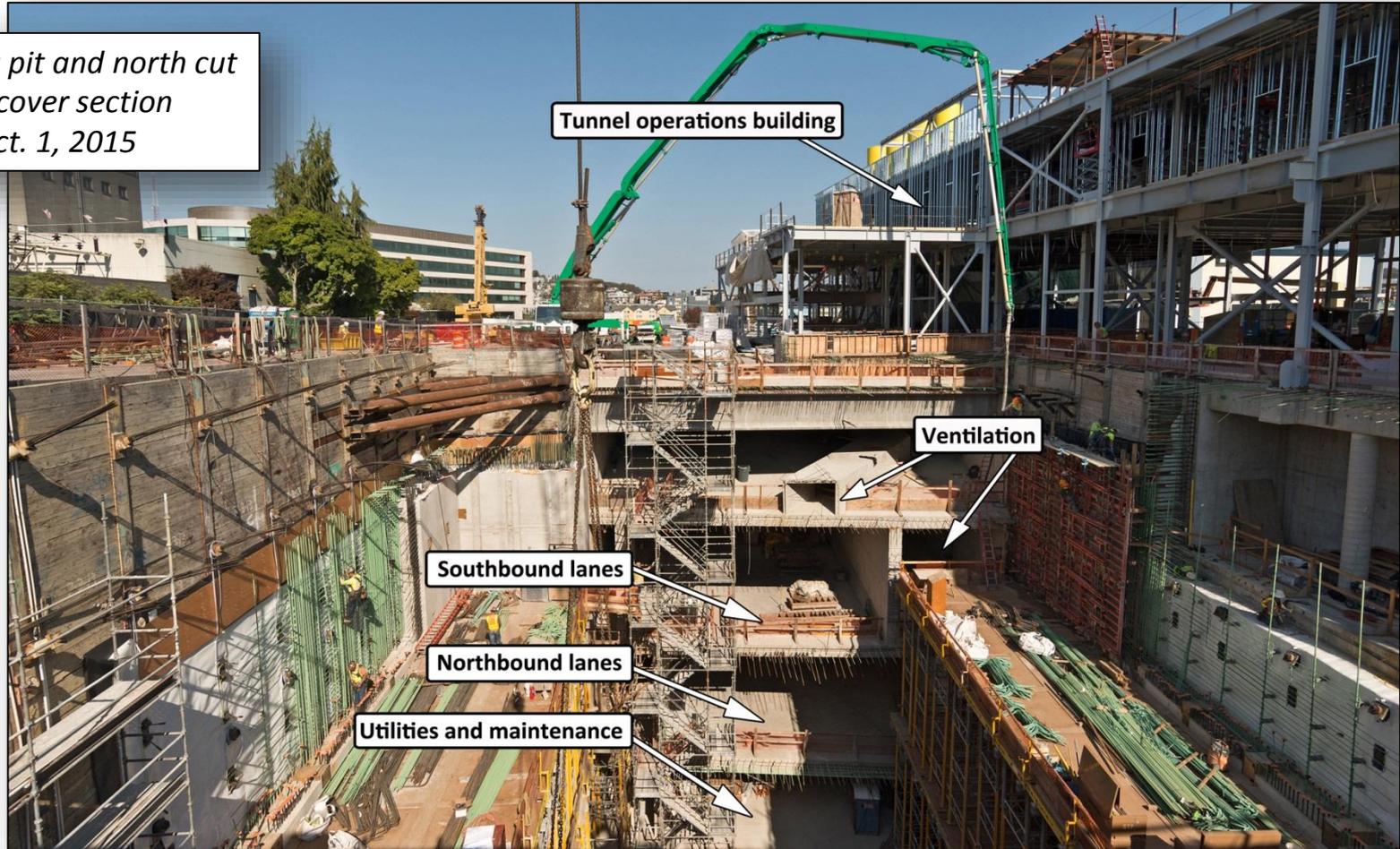


Photo: WSDOT

*Receiving pit
July 15, 2015*

Building the receiving pit

Receiving pit and north cut
and cover section
Oct. 1, 2015



North operations building



*North operations
building
Oct. 1, 2015*

Building the north portal



*Southbound tunnel
entrance and north
operations building
July 22, 2015*

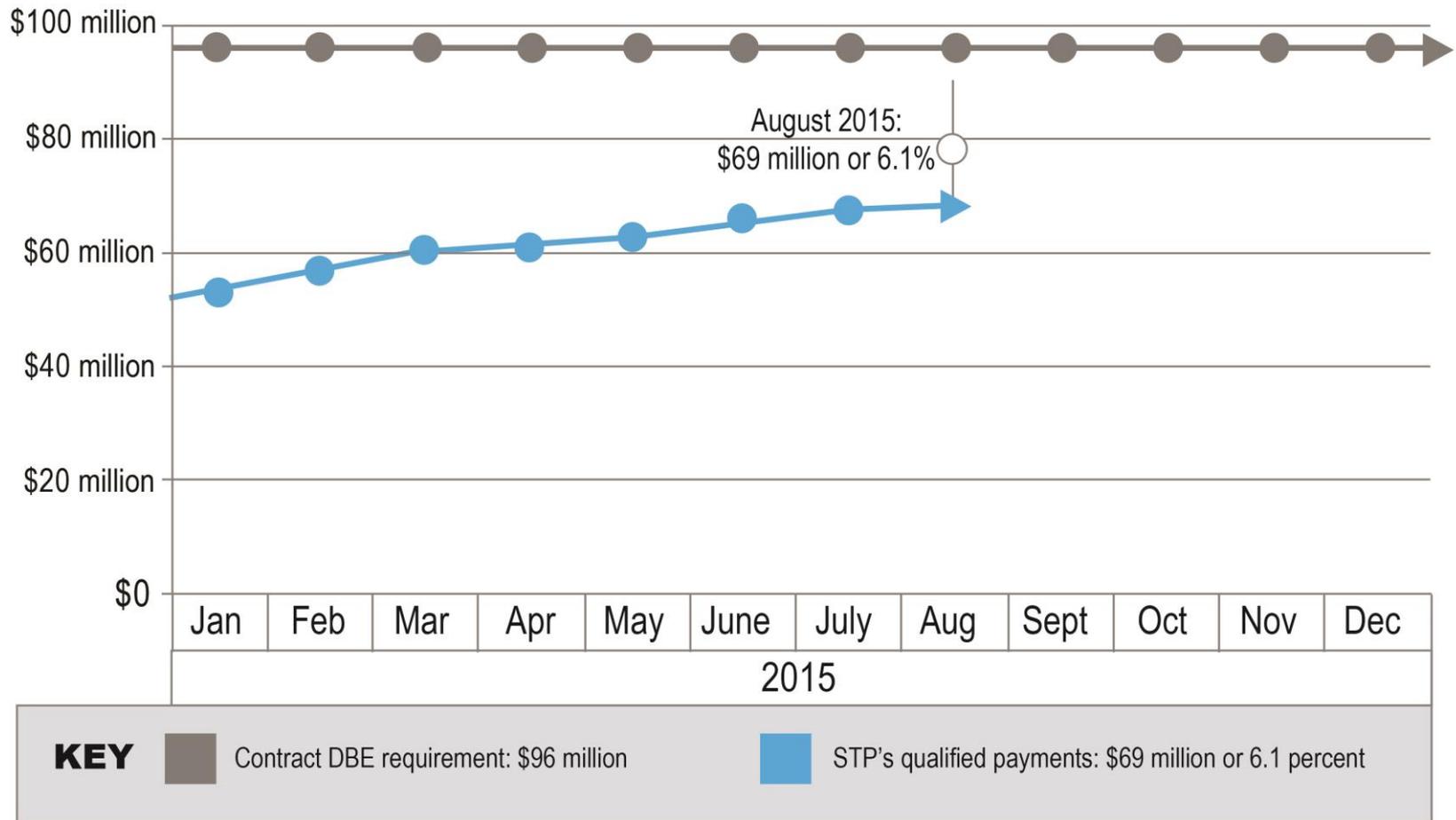
Photo: WSDOT

STP's current schedule

Key dates in STP's current schedule (September 2015)

- Late December 2015: Resume tunneling
- Late January 2016: Reach planned maintenance site (Safe Haven 3)
- March 2016: Tunnel under viaduct
- January 2017: Complete tunneling
- June 2017: Final concrete pour
- April 2018: Complete testing and commissioning
- April 2018: Tunnel ready for traffic

DBE progress



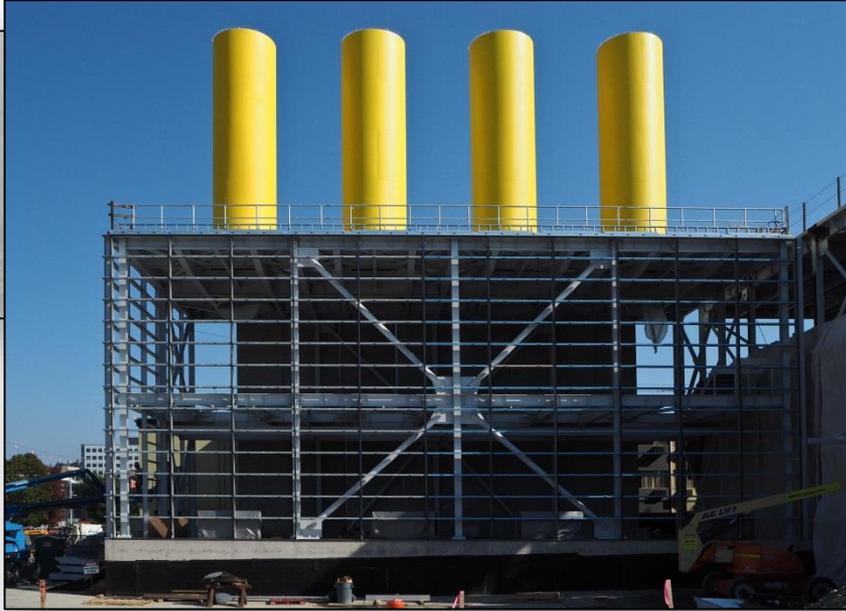
Change order update

Current change orders	
Requested by STP	\$227.5 million*
Executed	\$23.8 million**
Denied by WSDOT	\$175.1 million*
Under review	\$28.6 million

* Includes \$125.3 million claim for costs associated with tunneling machine stoppage

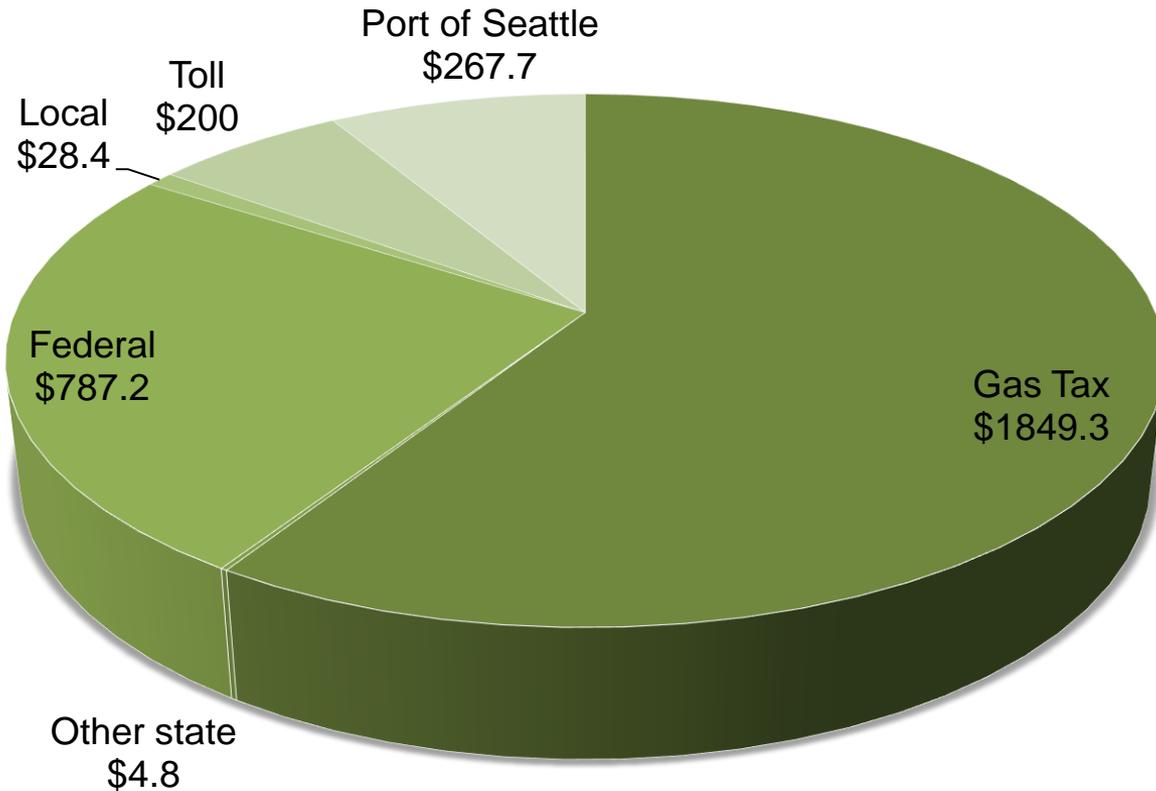
** Includes \$11.8 million from the Port of Seattle Fund, per contract

Today's Agenda



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Funding overview



= \$3.1 billion

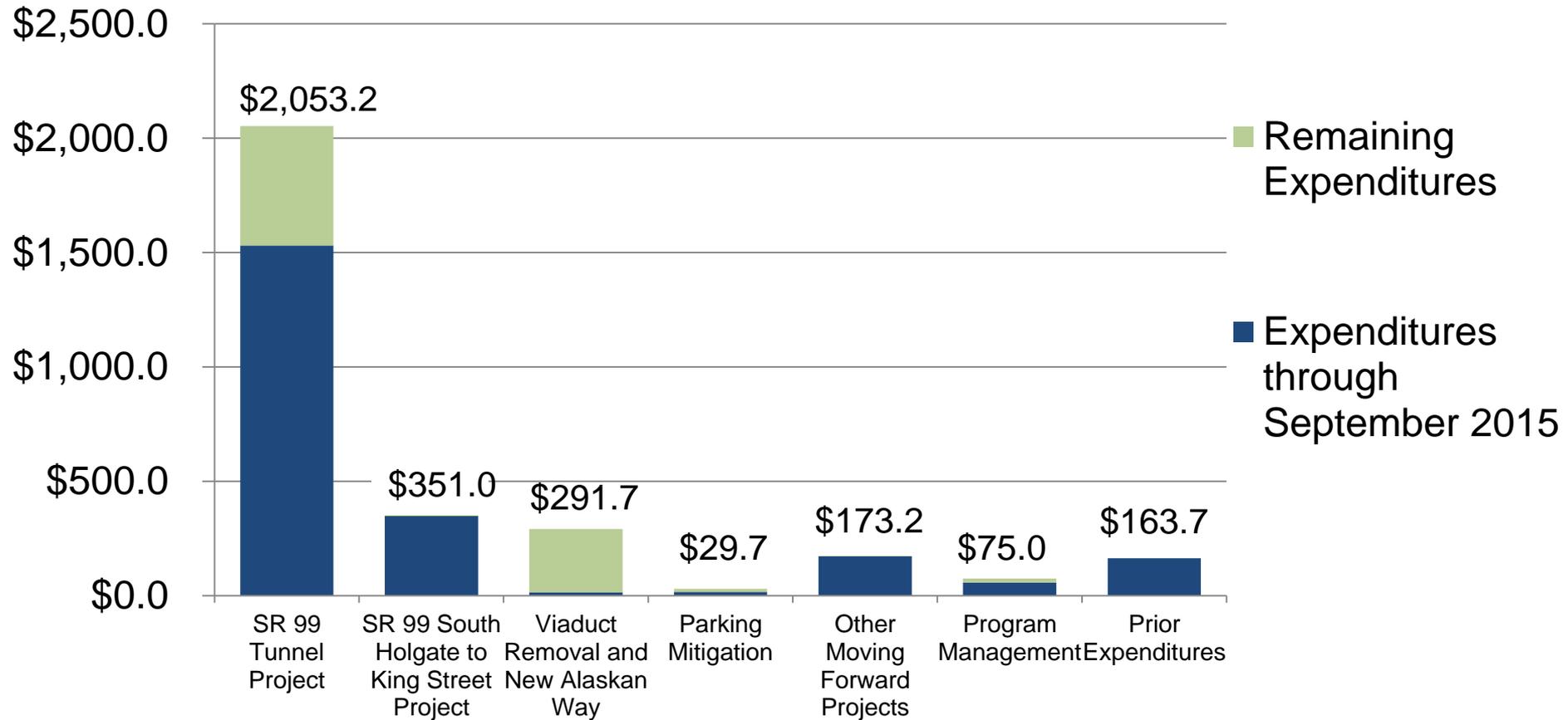
Funding sources (shown in millions)

Tolling update

- Toll Division planning to prepare investment grade analysis in 2016
- Washington State Transportation Commission will use analysis to guide rate setting discussions
- Plan to seek toll bond authorization from Legislature in 2017

Budget and expenditures

Figures based on 2015-2017 Legislative Budget (shown in millions)

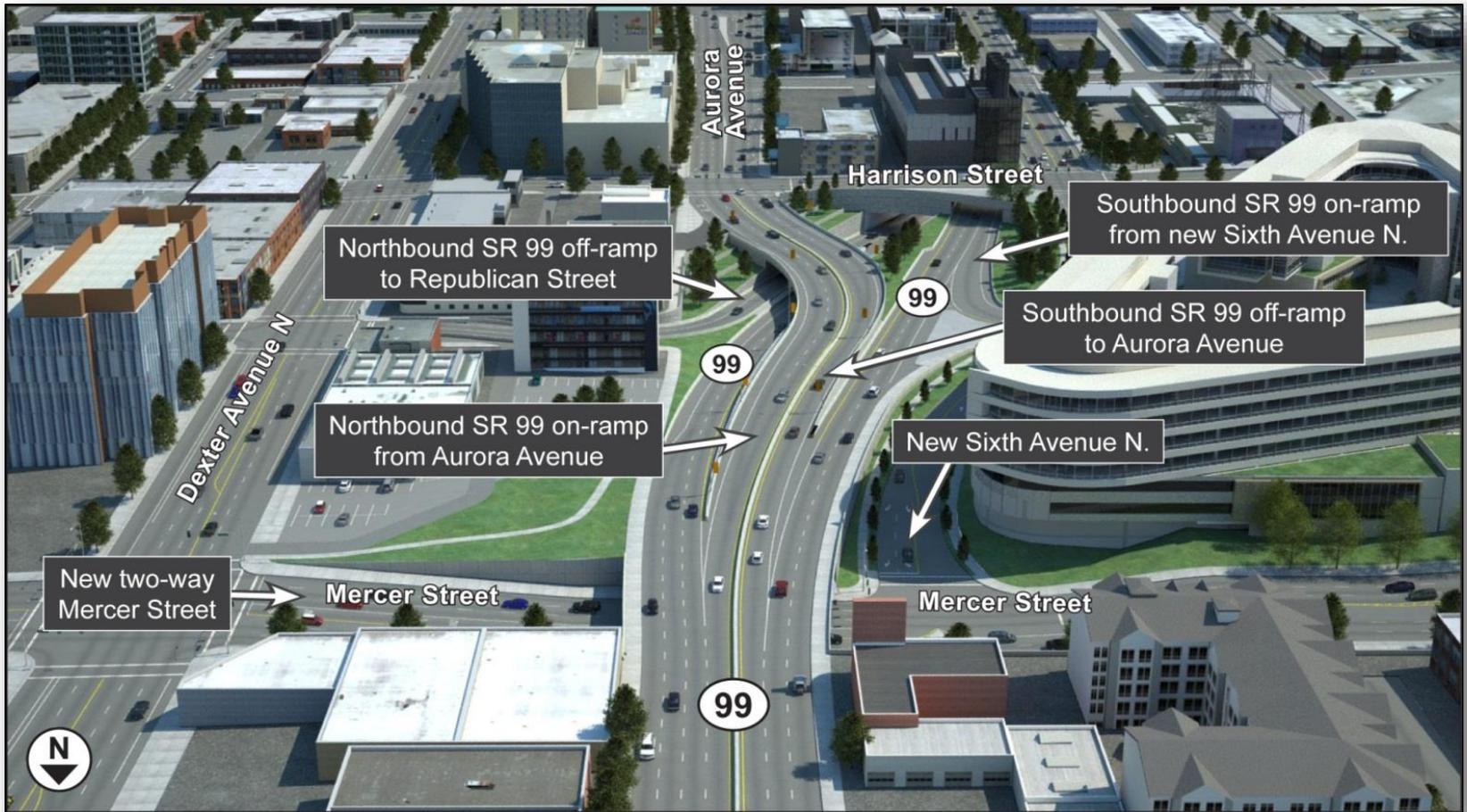


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Envisioning the North Portal



Building the North Access Project

Out with the old...



Photo: WSDOT

...in with the new



Photo: WSDOT

Building the North Access Project



*Future northbound
mainline and
off-ramp to Republican
Street
Oct. 1, 2015*

Photo: WSDOT

Building the North Access Project



*Future northbound
mainline and
off-ramp to
Republican Street
Oct. 1, 2015*

Photo: WSDOT

How to reach us



*Our information center,
Milepost 31, is located
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Seattle's Pioneer
Square neighborhood.*

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Twitter:
[@BerthaDigsSR99](https://twitter.com/BerthaDigsSR99)

Email:
viaduct@wsdot.wa.gov

Hotline:
1-888-AWV-LINE