

Western Bridge Engineer's Seminar 2015
Seattle's Not-So-Boring SR99 Bored Tunnel Project
Tim Moore PE, SE













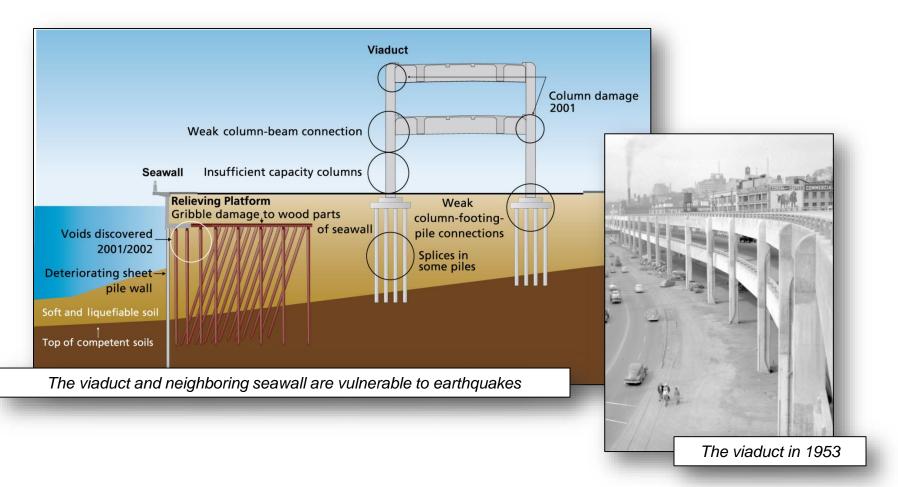
Project Location - SEATTLE







This is a SAFETY project





Building a new SR 99

Corridor





BUDGET overview



Other project contracts \$1.08 billion

Four other SR 99 tunnel related projects \$670 million





WSDOT's contract with Seattle Tunnel Partners \$1.35 billion

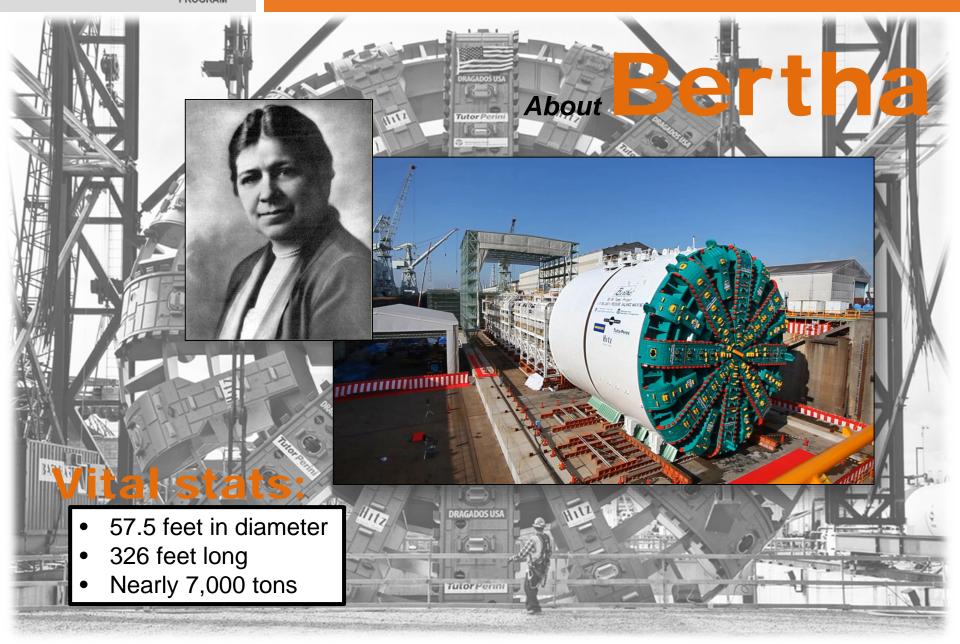
= \$3.1 billion

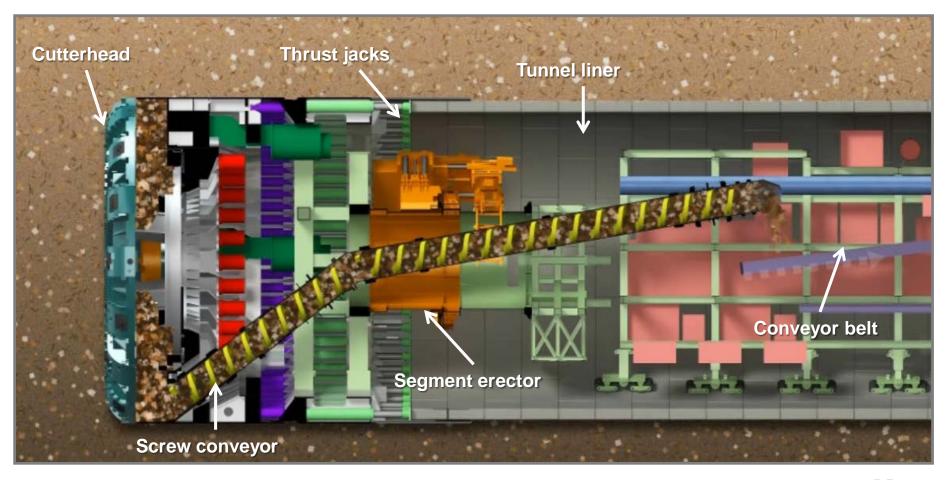


SR99 Bored Tunnel Design-Build Contract

Alaskan Way Viaduct Bored Tunnel Contract

- Tunnel Boring Machine, TBM
- Access Shaft
- Modular Lift Gantry
- Bearing and Seal Replacement
- Current Work
- Tunneling Start





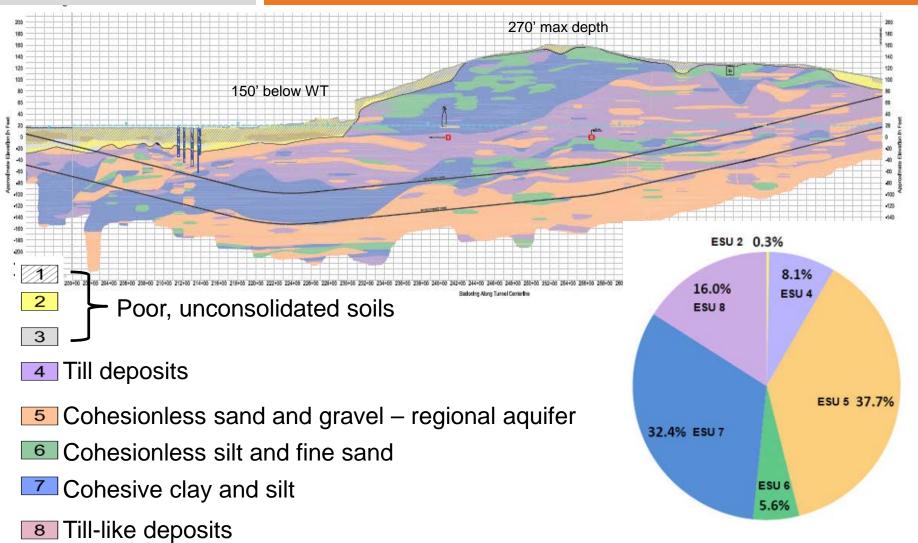
Meet

Alaskan Way Viaduct REPLACEMENT PROGRAM



Understanding



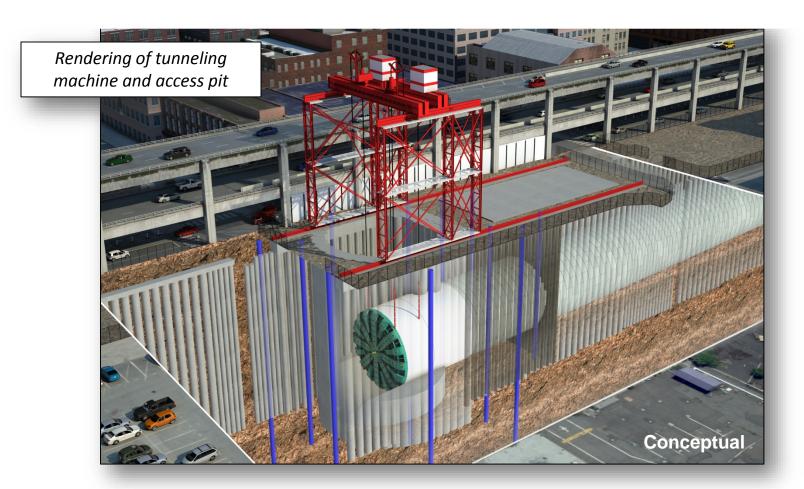


GEOLOGIC





Alaskan Way Viaduct REPLACEMENT PROGRAM

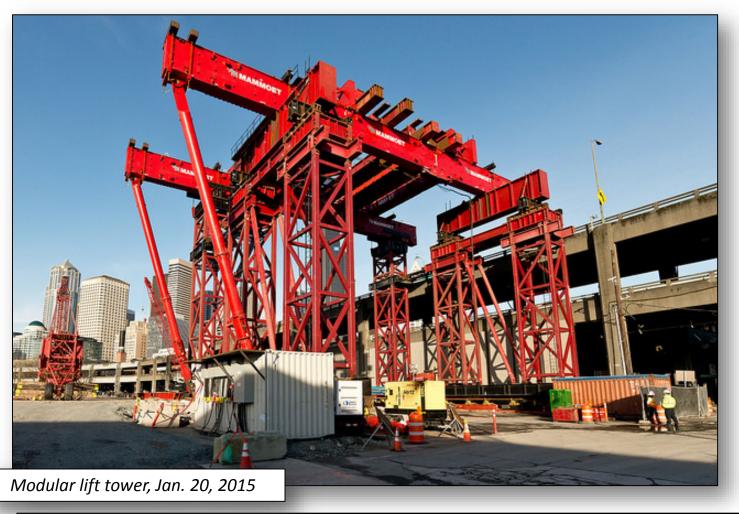


Repairing

Alaskan Way Viaduct REPLACEMENT PROGRAM



Repairing

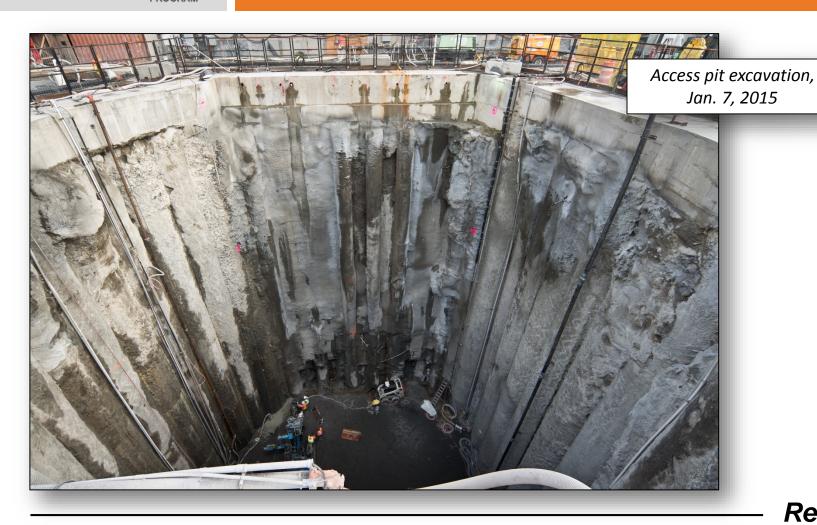


Mammoet

- Skid track
- 48 rams equalize load
 - Strand jacks (2200 tons)

Repairing

Alaskan Way Viaduct REPLACEMENT PROGRAM



Repairing

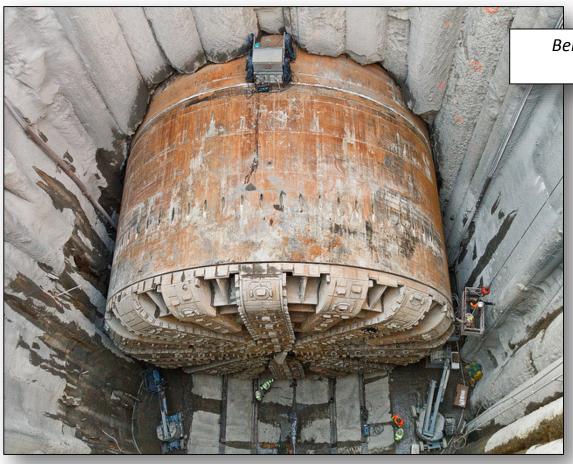




BERTHA

reaches daylight

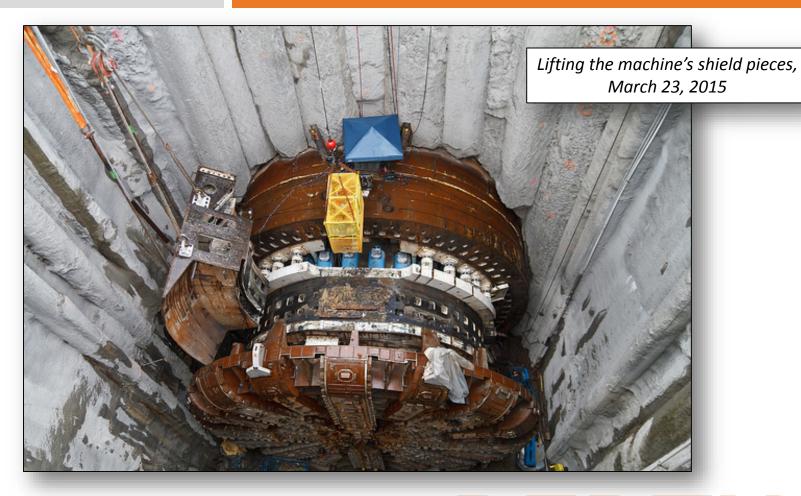
Alaskan Way Viaduct REPLACEMENT PROGRAM



Bertha's breakthrough, March 4, 2015

BERTHA

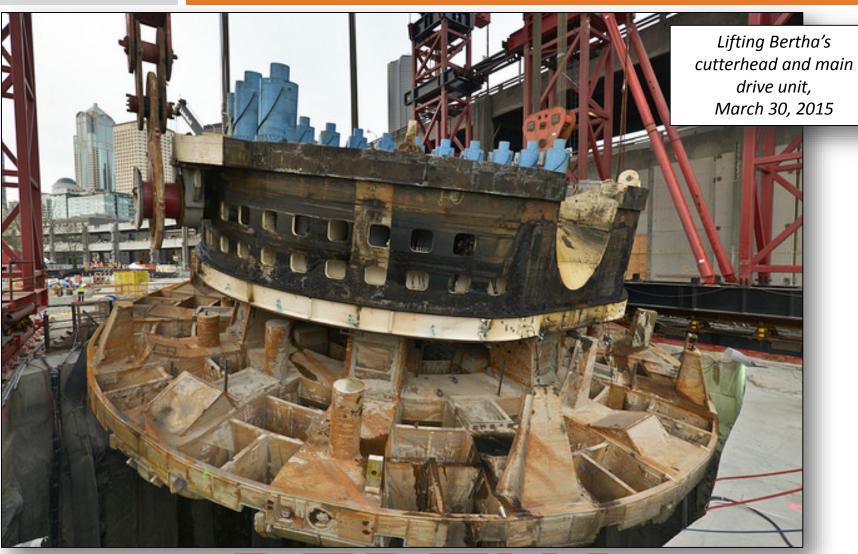
reaches daylight



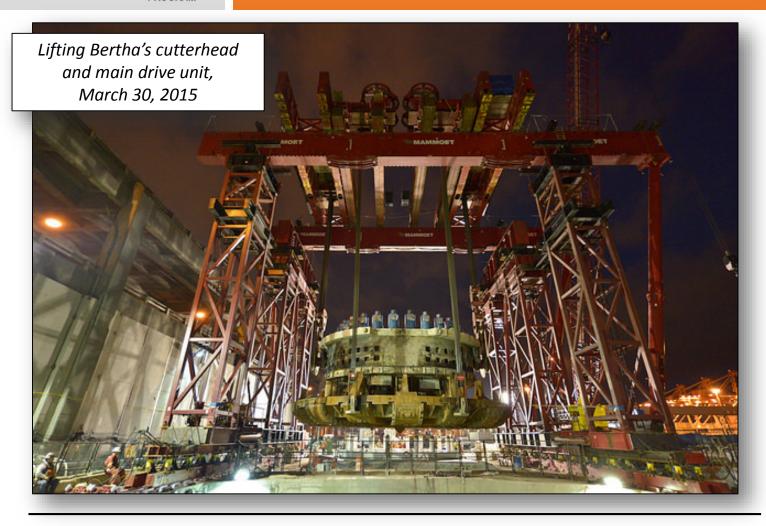
BERTHA

reaches daylight

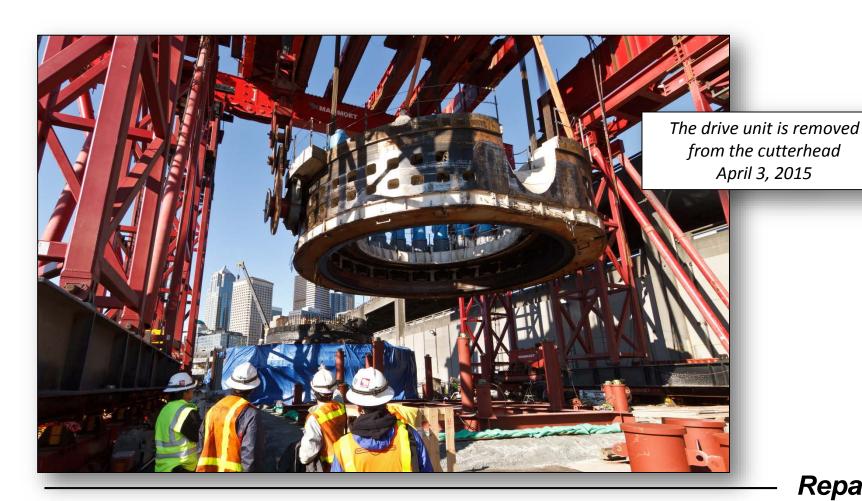
Alaskan Way Viaduct REPLACEMENT PROGRAM



Alaskan Way Viaduct REPLACEMENT PROGRAM

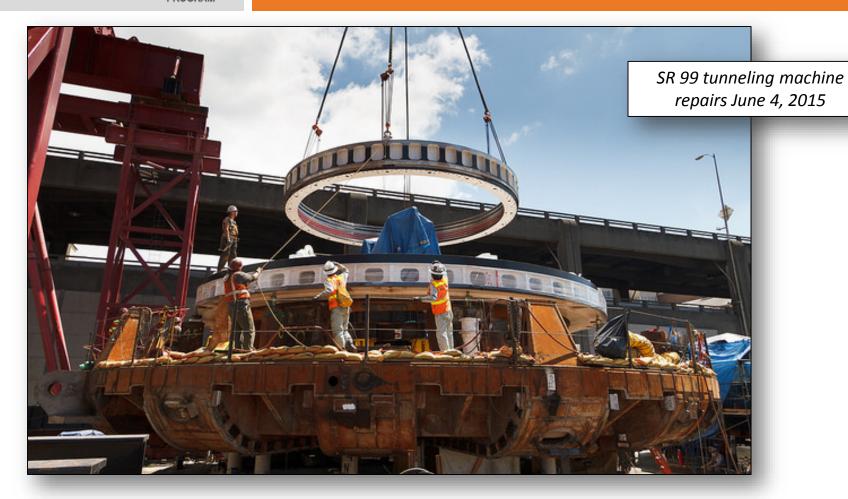


Repairing



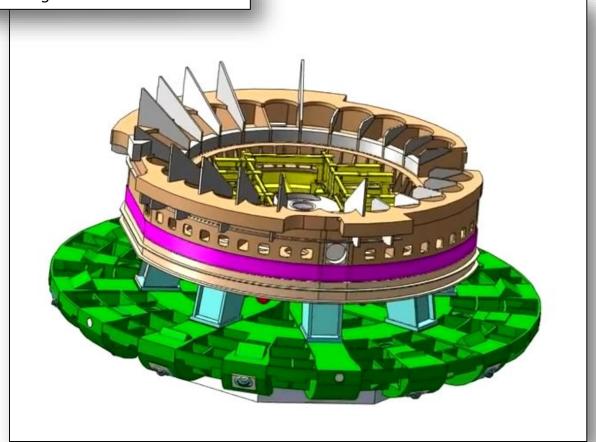
Repairing

Alaskan Way Viaduct REPLACEMENT PROGRAM

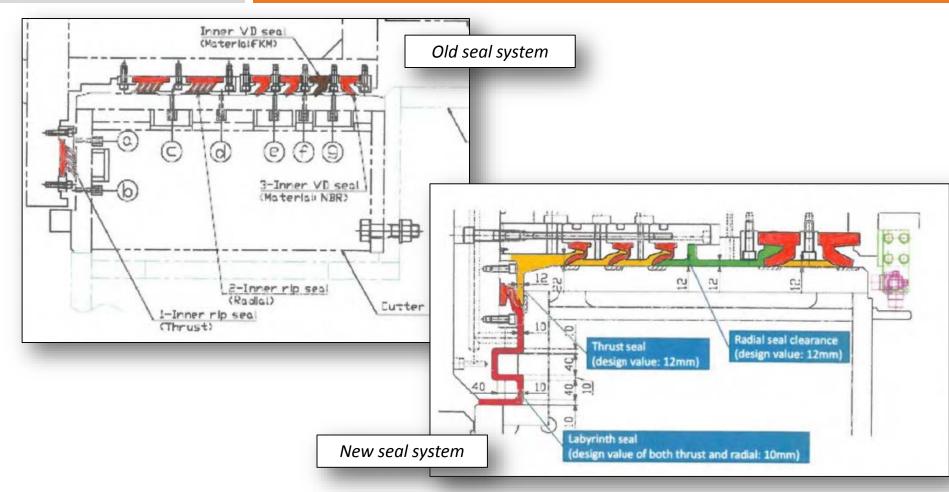


Repairing

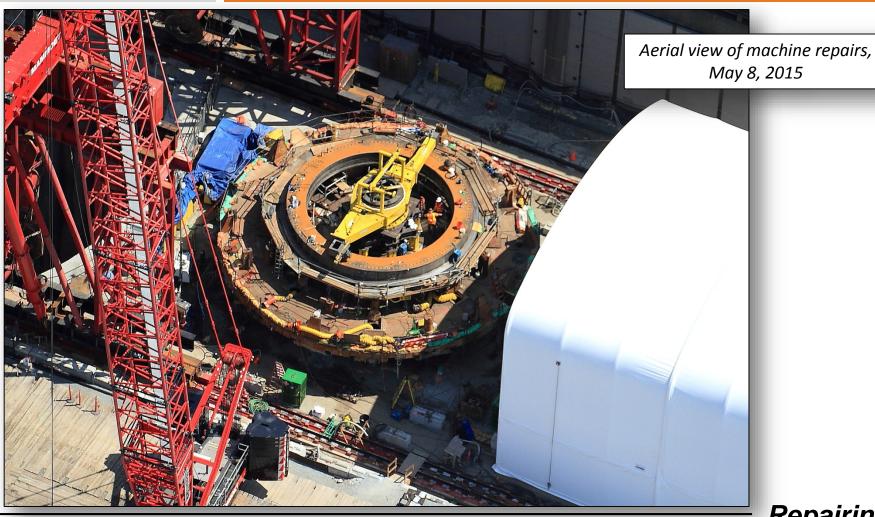
Building a better Bertha



Repairing



Repairing



Repairing



Repairing

Alaskan Way Viaduct REPLACEMENT PROGRAM



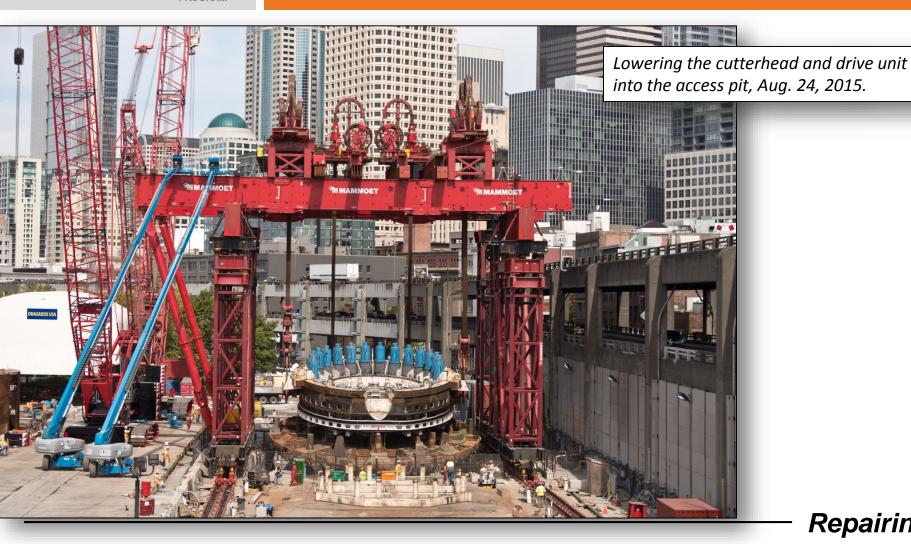
Repairing

Alaskan Way Viaduct



Repairing

Alaskan Way Viaduct



Repairing





Building the SOUTH
PORTAL





Building the SOUTH
PORTAL



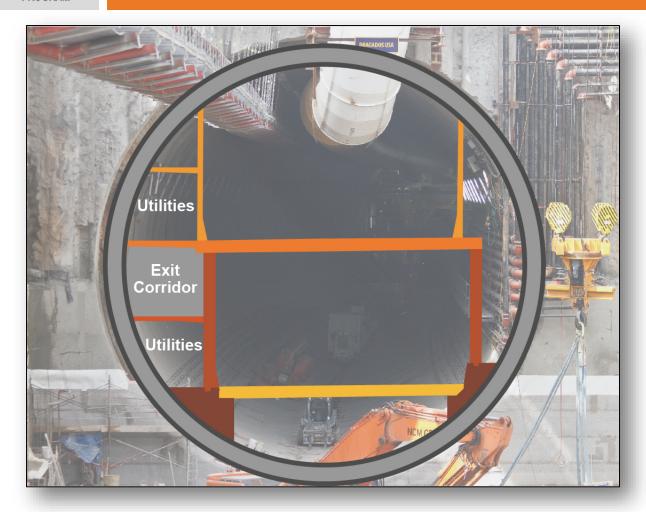
The NORTH

PORTAL





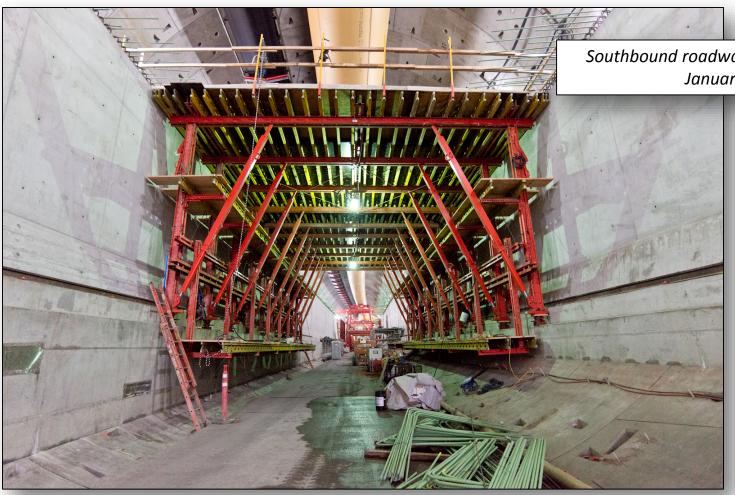
Building the NORTH
PORTAL



BUILDING THE HIGHWAY

inside the tunnel





Southbound roadway deck construction January 2015

BUILDING THE HIGHWAY

inside the tunnel





BUILDING THE HIGHWAY

inside the tunnel



How to REACH US





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