Alaskan Way Viaduct
REPLACEMENT
PROGRAM

Repairing the SR 99 TUNNELING MACHINE

May 2014

Seattle Tunnel Partners, WSDOT's contractor for the SR 99 Tunnel Project, is building a pit to access and repair the SR 99 tunneling machine. The following images illustrate STP's conceptual plan for resuming tunneling.

Seattle Tunnel Partners' repair timeline

- **Late May 2014:** Begin building the access pit's underground walls.
- **June 16, 2014:** Submit seal system repair and bearing replacement plan to WSDOT.
- **Late July through September 2014:** Excavate the pit.
- **October 2014:** Partially disassemble the machine and begin repairing damage to the seal system and main bearing.
- **November 2014:** Submit a full report of machine repairs to WSDOT.
- **February 2015:** Test the machine to ensure it is ready to tunnel beneath downtown.
- **Late March 2015:** Resume tunneling.

Access pit site today, above ground

Seattle Tunnel Partners' repair plan – May 2014

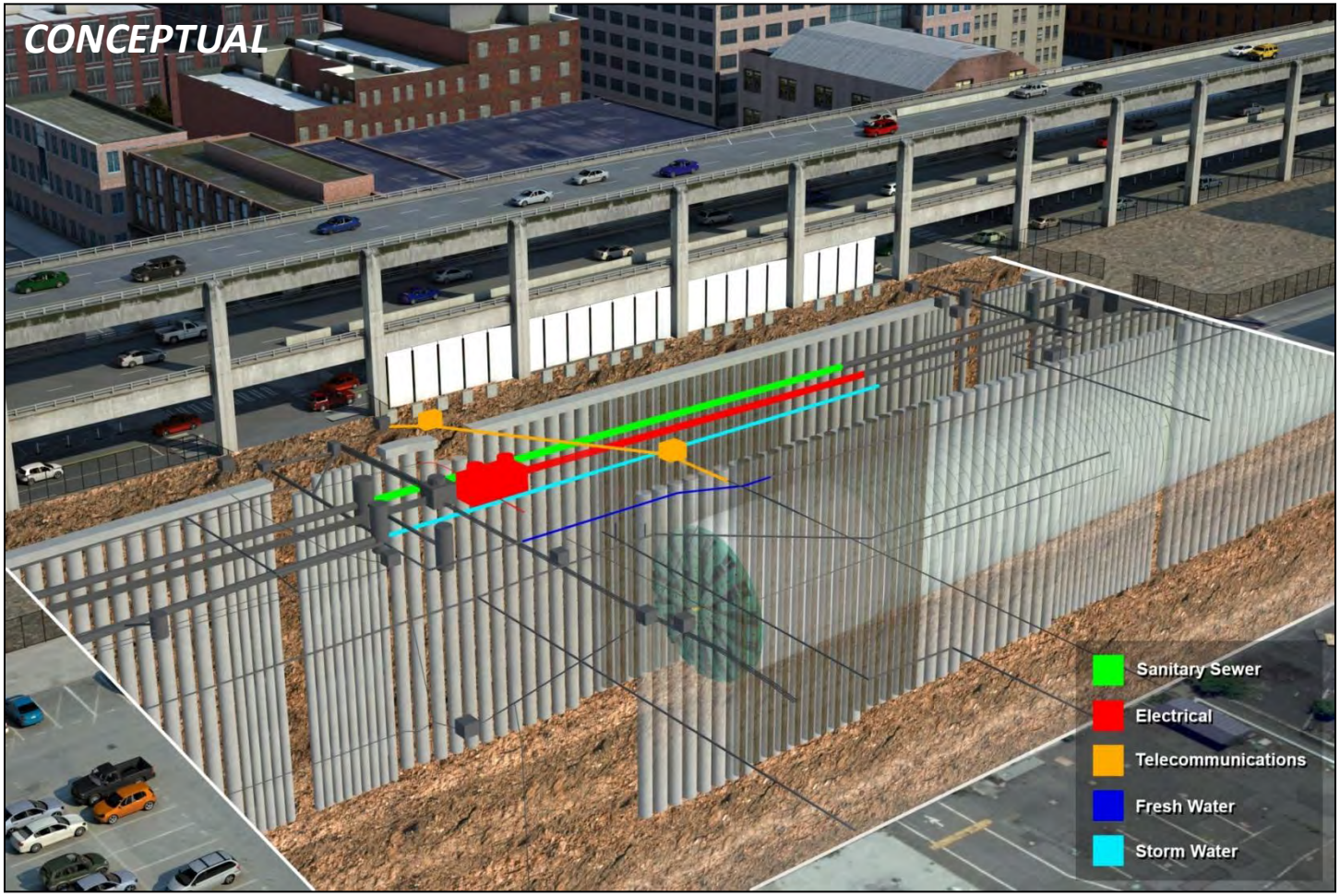
Access pit site today, below ground

Seattle Tunnel Partners' repair plan – May 2014

Inject grout between existing piles

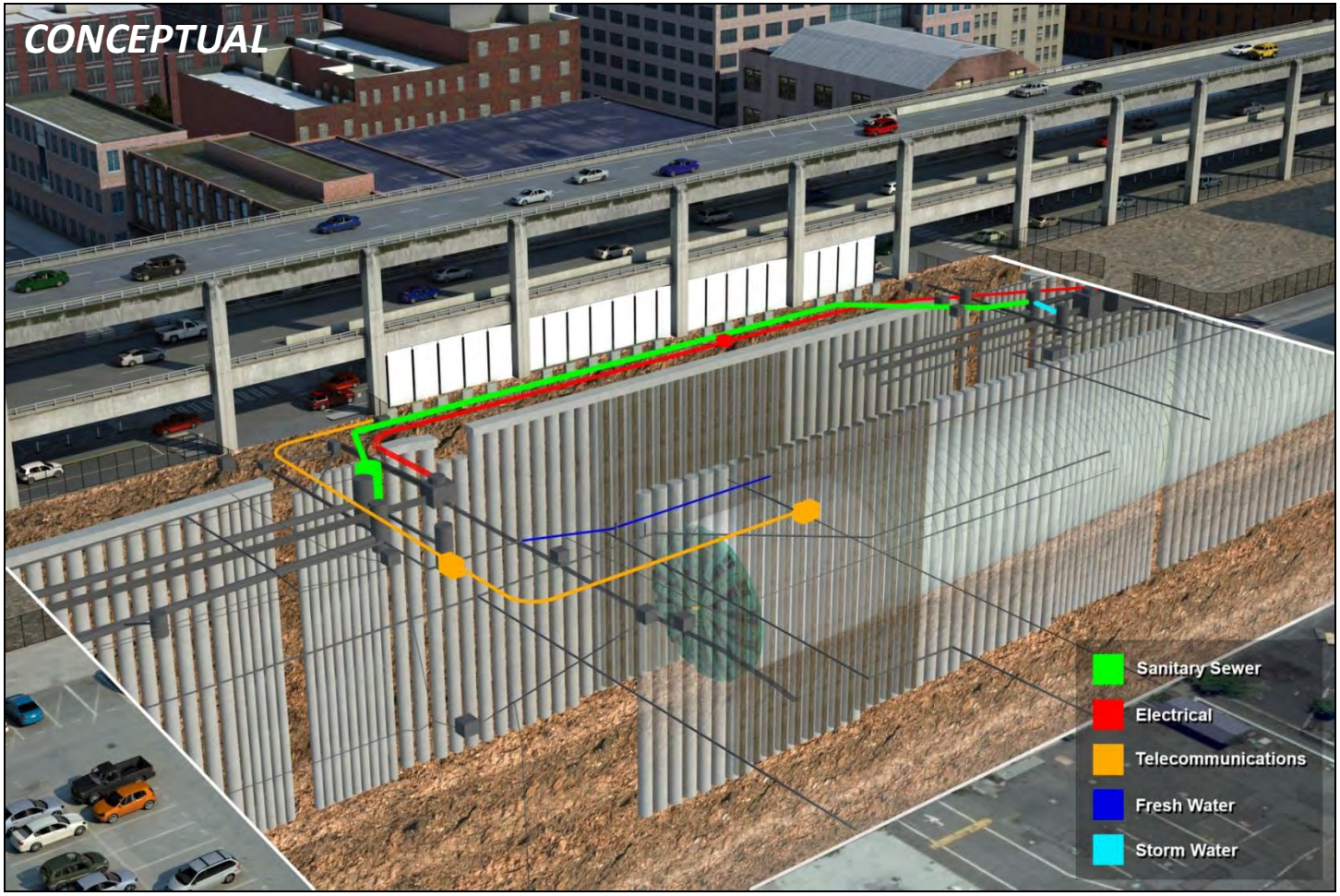
Seattle Tunnel Partners' repair plan – May 2014

Relocate utilities (before)



Seattle Tunnel Partners' repair plan – May 2014

Relocate utilities (after)



Seattle Tunnel Partners' repair plan – May 2014

Inject grout behind the machine

Seattle Tunnel Partners' repair plan – May 2014

Build the pit's walls

Seattle Tunnel Partners' repair plan – May 2014

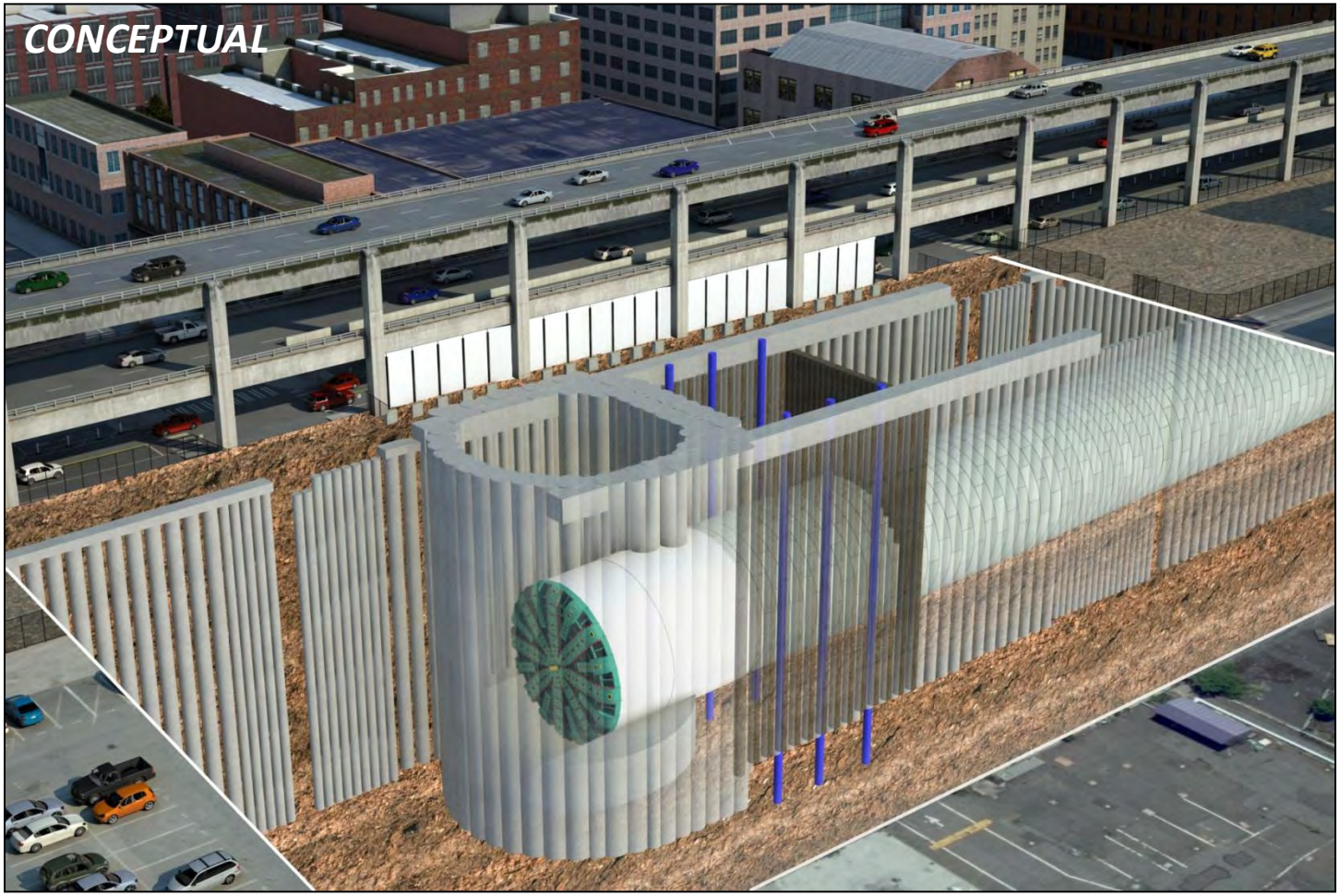
Build the pit's walls

Seattle Tunnel Partners' repair plan – May 2014

Lower groundwater

Seattle Tunnel Partners' repair plan – May 2014

Tunnel into the pit, then excavate

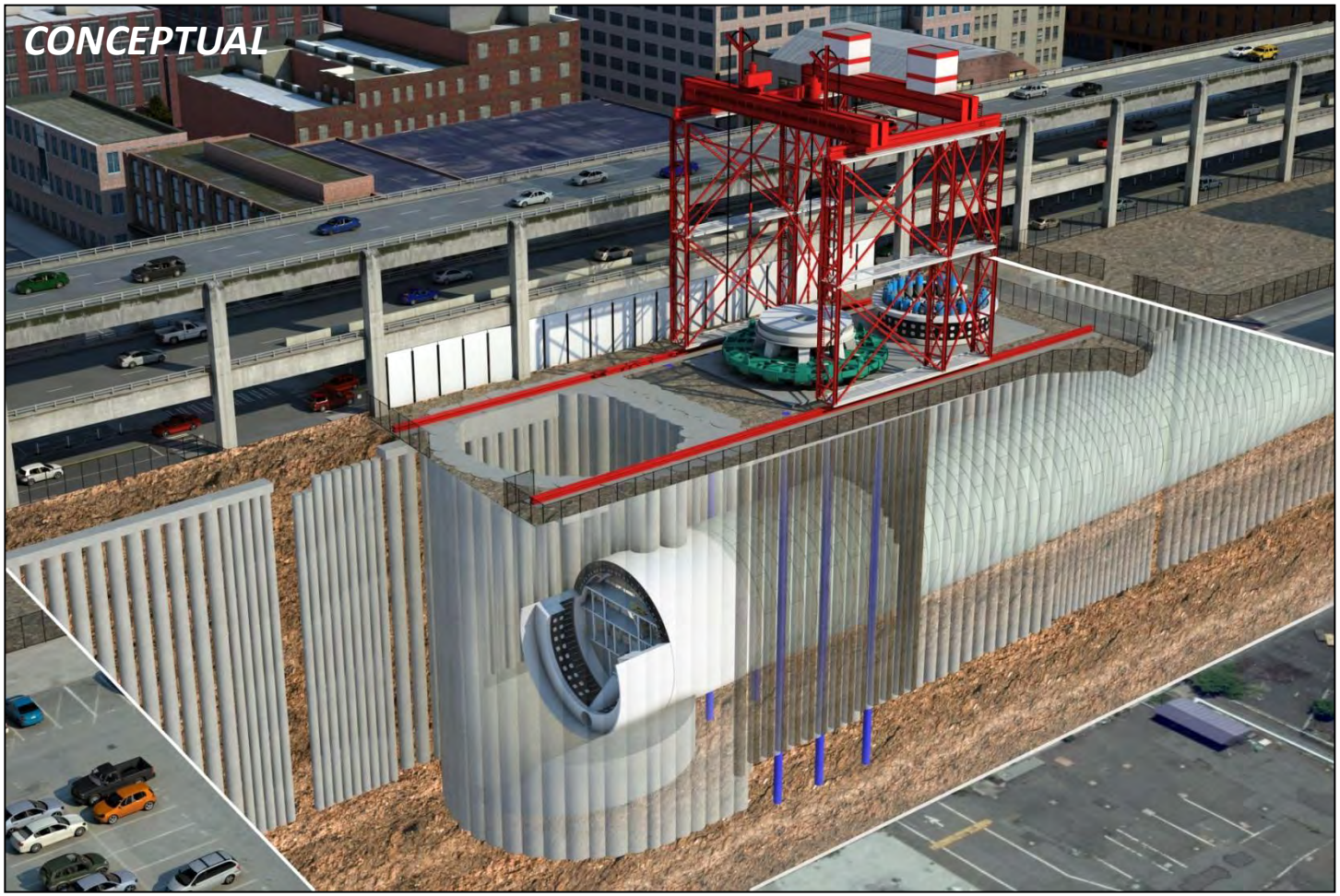


Seattle Tunnel Partners' repair plan – May 2014

Install a crane above the pit

Seattle Tunnel Partners' repair plan – May 2014

Remove pieces, make repairs



Seattle Tunnel Partners' repair plan – May 2014

Resume tunneling