SR-99 DEEP BORE TUNNEL

Royal Brougham to Harrison Street

January 13th, 2009

Project Description:

- Replaces the central portion of the existing viaduct with a four-lane, bypass single bore tunnel on 1st Avenue.
- Demolishes the existing viaduct
- Restores Alaskan Way with four surface lanes and connection to Elliott and Western

Tunnel Benefits:

- Maintains highway capacity consistent with all scenarios investigated in 2008.
- Strong earthquake performance leading to reliable lifeline link after event.
- Opens the waterfront to improve the pedestrian promenade, new open space, bicycle trails, double track for the streetcar and better access from City
- Eliminates noise and visual impacts of elevated viaduct in central waterfront area.
- Alternative is favored by many local residents, stakeholders and local agencies.
- Alternative has long expected life reduces long term life-cycle costs
- Provides a throughput corridor that is removed from the waterfront.
- Provides improved pedestrian and bicycle access along Alaskan Way.
- Connects the city to the waterfront
- Adds benefits through improved property values along the waterfront and additional open space

Project Risks:

- Catastrophic failure of viaduct and/or seawall could occur before replacement.
- Limited number of contractors qualified and available to pursue a project this large.
- Schedule is aggressive and requires accelerated environmental, design, procurement and construction
- Tunnel Boring Machine will be a few feet larger than the largest built to date but the technology has been proven in similar ground conditions
- Geotechnical data is based on a general knowledge of soils from other projects
- Potential legal and environmental challenges

Schedule:

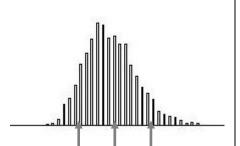
EIS / Early actions 2009-2010

Begin Construction Fall 2010

Open to traffic Fall 2015

Completion (followon actions) 2016

CEVP-Type Cost Range:



(Range)

Most Probable Cost

20% chance the cost is less than \$1.2 billion

60% chance the cost is **a** less than **\$1.9** billion

80% chance the cost is —

less than \$2.2 billion

Key Assumptions:

- Tunnel realigned under 1st Avenue
- Cross section is a stacked 2 over 2 configuration in a single 54' diameter tunnel
- Schedule is based on accelerated environmental, design, TBM procurement, pre-construction and permitting.
- Requires an advanced (incentivised) design/build contract to reduce total time for design, procurement of the TBM and construction
- Cost does not include a direct connection to Elliott and Western

Financial Fine Print:

- Cost is escalated to the midpoint of construction using Global Insight's recommendation per WSDOT policy.
- \$2.4 Billion is currently secured for the AWV & Seawall Project.
- Approximately \$1.5 billion remains for the tunnel
- Additional local money must be secured to complete the tunnel.
- The Port of Seattle and City of Seattle have proposals in process to add to the available project funding in order to complete the project.

Level of Project Design: Low Medium High

January 13, 2009

