

# Why replace the viaduct?

- Airport Way S viaduct was originally constructed in 1928 and was rehabilitated in 1982
- Replacing the north and south approaches is necessary to maintain a safe and efficient travel corridor for vehicles, pedestrians and bicycles
- Improvements to the structure will meet the City's seismic codes and standards, ensuring the viaduct is able to withstand large earthquake events



Images of north approach



Images of south approach

# What are the project benefits?

- **Safe for users:** Replaces north and south approaches of the bridge, widens lanes and upgrades sidewalks to accommodate current and future traffic conditions
- **Seismically safe:** Meets current earthquake codes
- **Keeps freight moving:** Improves the load-carrying capacity of the bridge
- **Environmental improvements:** Improves the conveyance and treatment of stormwater runoff
- **Corridor aesthetics:** New sidewalks, street lighting and curb railing



Rendition of mechanically stabilized earth (MSE) retaining wall



South approach of Airport Way S viaduct

# Construction detour plan

## Full closure scenario



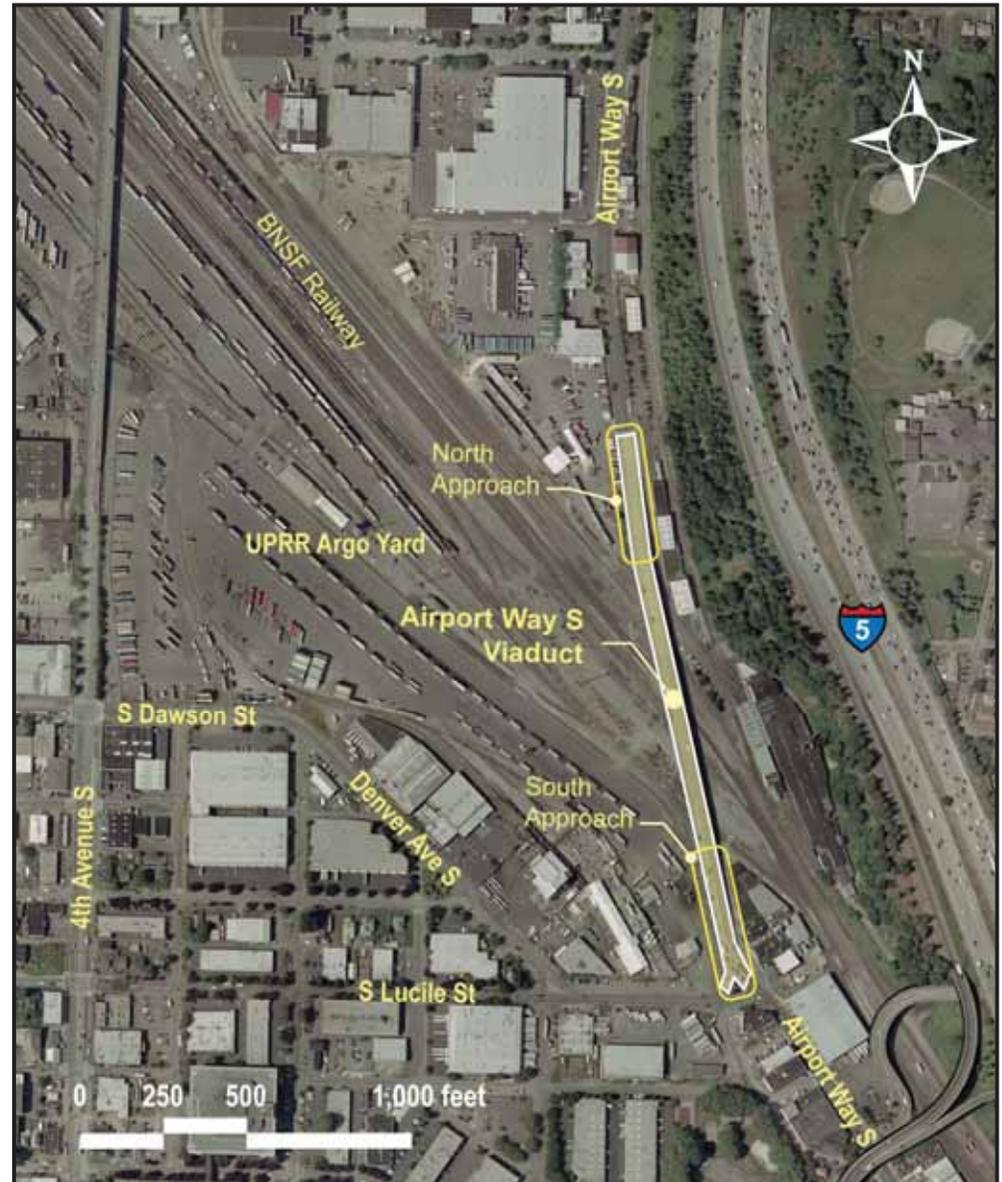
- Airport Way S viaduct closed during construction
- No pedestrian, bicycle or vehicle access
- Local traffic detour on 4th Avenue S
- Signage placed throughout region to alert vehicles of detour route

Legend	
	Construction area
	Southbound traffic
	Northbound traffic

# Project area

- The Airport Way S viaduct is a major thoroughfare in South Seattle and a vital link in the central Puget Sound region's freight mobility network
  - An average of approximately 13,600 vehicles use the viaduct each day\*
  - An average of approximately 1,900 heavy vehicles use the viaduct each day\*
- 5 King County Metro Bus routes travel on the viaduct (Routes 101, 102, 106, 131, 134)
- Several businesses are located along Airport Way S, between S Lucile Street and S Industrial Way
- City dump trucks deliver garbage to Union Pacific Railroad Yard for eventual disposal 5 times per day

*\*Traffic results compiled in September 2008*



# Construction detour plan

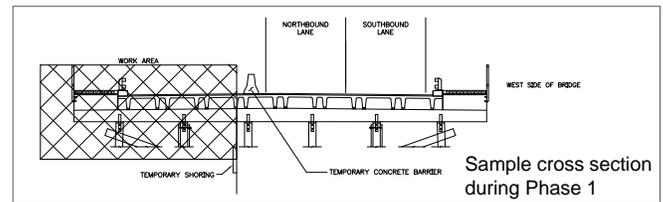
## Partial closure scenario

A partial closure option would consist of two phases.

### Phase 1:



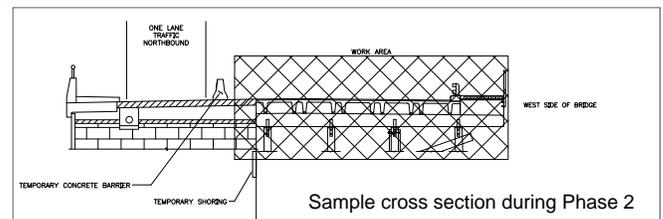
- One lane of traffic in each direction open during construction
- Pedestrian access on west side of viaduct



### Phase 2:



- Northbound traffic on Airport Way S
- Southbound traffic detoured to 4th Avenue S
- Pedestrian access on east side of viaduct



# Project schedule

	2010				2011				2012		
	Jan. - March	April - June	July - Sept.	Oct. - Dec.	Jan. - March	April - June	July - Sept.	Oct. - Dec.	Jan. - March	April - June	July - Sept.
<b>Design</b>											
<b>Construction</b>											

Design phase
  Full closure construction duration
  Partial closure construction duration

## Full closure scenario

- Construction up to 8-10 months
- Planned detour route
- Dedicated area for construction
- Reduced complexity of construction

## Partial closure scenario

- Construction up to 14-20 months
- Limited access on Airport Way S, with southbound traffic detoured to 4th Avenue S during second construction phase
- Complex construction phasing