NE 45th Street Viaduct Project
West Approach Replacement

West Approach Replacement
Mike Ward, Project Manager
NE 45th Street Viaduct Project
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Bridging the Gap

• NE 45th Street Viaduct project funded primarily by nine-year $365M 2006 levy
• Projects selected based on safety, route significance, structural vulnerability
• Replace or repair structures in-kind, to current standards, to improve safety
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Project Area
Project Need

• Ensure safe travel for vehicles, pedestrians and bicycles
• Minimize risk of aging structure; bridge originally built in 1938
• Minimize long-term maintenance
Design of the New Structure

Mechanically Stabilized Earth (MSE) wall technology

- Pre-made concrete panels with backfill material placed in compacted layers
- Supports a new road surface
- Eliminates space under roadway
- Cross section stays the same
### NE 45th Street Viaduct Project
#### West Approach Replacement

#### Construction Schedule

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**UW commencement (June 12)**

**1st Husky Game (Sept 11)**

**June 14 - Sept 10**

- Stabilize the slope
- Install drainage
- Construct the foundations for the new structure
- Grind pavement and repair roadway on 22nd Ave NE

- Repave 22nd Ave NE from NE 45th St to NE 54th St
- Remove the existing structure
- Install concrete wall panels and backfill new structure
- Build the new road on top of the new structure

- Install lighting
- Finalize lane striping and pedestrian markings
- Re-plant the area around the new structure
Prior to Closure

- Temporary traffic revisions at intersection of NE 55th St, NE Ravenna Blvd, and 22nd Ave NE
- Improve truck signage along NE Ravenna Blvd
- Improve visibility and maintenance of lighting along the pedestrian detour route
- Install priority signalization for emergency vehicles
During the Closure

- Uniformed Police Officers
- Local Access Only signage
- Dynamic Message Signs
- Signal timing modifications
- Limited parking restrictions
Bicycle and Pedestrian Detour

• Signed and accessible detour route during viaduct closure
• Can be used by pedestrians, bicycles and other non-motorized vehicles
• Provides connection between 20th Ave NE and Ravenna Ave NE
• Improvements underway
Transportation Demand Management (TDM)

• Traffic during the closure will also be managed with more walking, biking and transit use:
  o Bike the Burke!
  o Bicycle classes and workshops
  o Neighborhood access map
  o Information and tools
What You Can Expect During Construction

Work hours
- 7 am to 11 pm, 7 days a week from April to September
- Periodic nighttime work

Noise
- Increase in noise during daytime and evening hours
- Types of construction noise: backup alarms, truck traffic, and heavy machinery including cranes, loaders, and haulers

Traffic Impacts
- June 14 – Sept. 10: viaduct closed to all traffic, bicycles, and pedestrians
- 22nd Ave NE repaving from NE 45th St to NE 54th St
Community Outreach

We are committed to keeping the community informed through:

• Web site, e-mail, and phone
• One-on-one meetings
• Ongoing coordination with major institutions
• Resident/business outreach
• Public meetings and info booths
Let’s Keep in Touch

Please visit our project Web site:
www.seattle.gov/transportation/45th-bridge.htm

Or send us an e-mail:
NE45thBridgeRehab@Seattle.gov

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