Woodrow Wilson Bridge Project

Project Overview Briefing
July 2007
Opening Day Celebration
May 18, 2006

From Left to Right
Mayor Anthony Williams, District of Columbia,
Governor Timothy Kaine, Virginia,
Governor Robert Ehrlich, Maryland
and Secretary Norman Mineta, U.S. DOT

Blue Angels Flying over the Wilson Bridge
Traffic on the new Wilson Bridge (July 17, 2006)
Demolition of the steel girders (August 28, 2006)
Existing Woodrow Wilson Bridge

Opened 1961
Anticipated Design Year Traffic Volume: 75,000
6 Lanes: Very narrow shoulders
Current Traffic Volume: 195,000
Anticipated Year 2020 Traffic Volume: 295,000
Why This Project Is Important

Safety

... has nearly twice the accident rate of similar highways in Maryland and Virginia as well as the American Legion Bridge...

Traffic Volume

... is burdened with seven hours of congestion daily and frequent several-mile backups...

Wear and tear on the 40-year old bridge required the facility to be replaced in the near term.

At least 1.3% ($58 Billion) of trucked GDP crossed the Bridge in 1993.
Partnership
General Engineering Consultant
Potomac Crossing Consultants

General Engineering Consultant (GEC) Joint Venture

• Parsons Brinckerhoff (Lead) 36%
• URS Corporation 32%
• Rummel Klepper & Kahl 32%
• 13 Active Subconsultants (8 DBE’s)
Project Limits

Telegraph Road  US Route 1  River Crossing  I-295  MD-210
Planning Process

1988 – Study initiated by federal government, Virginia, Maryland, District of Columbia

Early 1990’s – Traditional project selection process failed in face of opposition from local jurisdictions

1992 – Inclusive project ID effort launched. De facto selection panel created, with 9 of 14 members representing local jurisdictions

1992-1996 – Panel Studies, with public input at every step

1996 – 12-lane facility and reconstruction of 4 adjacent interchanges was recommended

1998 – Bridge design competition

2000 – Final Supplemental Environmental Impact Statement completed
Artist Rendering of Finished Bridge

... the winning design,
selected by a jury from 7 entries ....
Significant Milestones

2000 – Begin construction with river dredging

2001 – Begin bridge foundations, VA & MD soil improvement and MD interchange work

2003 – Begin bridge superstructure and VA & MD tie-in projects

Mid 2006 – Complete 1st new bridge, switch traffic, demolish old bridge

Mid 2008 – Complete 2nd new bridge and bulk of US Route 1, I-295 and MD 210 Interchanges

2013 – Complete Telegraph Road Interchange
**Woodrow Wilson Bridge Project**

- **Dredging and Foundations:** Contracts Complete
- **Construction Budget:** $145M
- **Completed:**
  - Dredging: 3-10-01
  - Foundations: 7-1-03
Dredging Near Existing Bridge

340,000 Cubic Yards of Material = 145 Barges
Dredge disposal site at Weanack, VA

Dredge Disposal Facts
- Site is 170 miles from bridge
- Project pays property owner $4.90/CY “tipping fee”
- Restores a strip-mined site to productive farmland

Corn growing in former sand and gravel pit
Graphic of typical foundation
River work for the foundations contact (looking towards MD)

Note: Completed pedestals (white) in background
Completed pedestals (looking towards MD)
Note: Existing bridge to the left
- Bascule Spans: 96% Complete
- Construction Budget: $193M
- Completion Date: August 2008
View of the Bascule Span operations. One of two spans in the open position (2-8-06).
Contractor dismantling the two tower cranes that had been on-site since 2003; these 285-foot cranes were for the Bascule contract work
Woodrow Wilson Bridge Project

Virginia Approach: 75% Complete

Construction Budget: $127M

Completion Date: December 2009
Graphic of new bridge in Jones Point Park, Alexandria, VA
Virginia Approach Contract from Hunting Point, Alexandria, VA
View of the last segment that was set for the inner loop bridge
**Woodrow Wilson Bridge Project**

- **Maryland Approach:** 85% Complete
- **Construction Budget:** $206M
- **Completion Date:** December 2008
Rendering of Maryland Approach Spans
View of the Outer Loop for the Maryland Approach Spans, Potomac River
Contractor setting steel near the Maryland abutment (where bridge meets land) for the Inner Loop bridge which is scheduled to open in mid-2008
Project Limits

Woodrow Wilson Bridge Project

Project Limits:
- Telegraph Road
- US Route 1
- River Crossing
- I-295
- MD-210
I-295 Interchange

Contracts: 4
Contracts value: $199M
Start: August 2001
Est. Completion: May 2009
Percent Complete: 80%

Proposed I-95 / I-295 Interchange

February 2005

Legend
- New Roadway
- New Bridge

Display Prepared By: Paterno Consulting

Not to Scale
10000
8010
View of the I-295 Interchange work
View looking west at the cross-through for the bicycle/pedestrian path near the new Outer Loop bridge
Project Limits

- Telegraph Road
- US Route 1
- River Crossing
- I-295
- MD-210
## New MD 210 Interchange

**Contracts:** 3  
**Contracts value:** $125M  
**Start:** February 2004  
**Est. Completion:** September 2008  
**Percent Complete:** 65%

### Proposed I-95 / MD 210 Interchange

[Map of proposed I-95 / MD 210 Interchange]
Demolition of the old MD 210 bridge spanning the Capital Beltway (new MD 210 bridge opened in late 2006)
Project Limits

Woodrow Wilson Bridge Project

Telegraph Road  US Route 1  River Crossing  I-295  MD-210
Route 1 Interchange

Contracts: 6
Contracts value: $300M
Start: August 2000
Est. Completion: June 2009
Percent Complete: 78%
Soil cement auger operating near the Telegraph Road and US Route 1 Interchanges, Virginia
Demolition of Hunting Tower
Completed

February 2003

March 2003
Office buildings located in the right of way of the future wider roadway

Constructing the new S. Washington Street Deck
View looking south at the U.S. Route 1 Interchange
**Project Limits**

**Woodrow Wilson Bridge Project**

- **Project Limits**
  - Telegraph Road
  - US Route 1
  - River Crossing
  - I-295
  - MD-210
Telegraph Road Interchange

Contracts: 3
Contracts value: $202M
Est. Start: March 2004
Est. Completion: June 2013
Percent Complete: 13%

[Map of Telegraph Road Interchange showing proposed construction areas and annotations]

Plans at approximately 60%. Landscaping and other refinements to be added when final design is completed.
Utility relocation near Telegraph Road interchange
Environmental Mitigation

Contracts: 15
Contracts value: $16.73M
Start: September 2002
Est. Completion: June 2009
Percent Complete: 58%
Building Green: Efforts to Improve Natural Environment

Habitat Preservation

Wetland creation, enhancement or preservation

River grass plantation

Reforestation

Stream restoration

Rosalie Island
Fox Ferry Cove
Smoots Cove

ROSALIE ISLAND

Woodrow Wilson Bridge Project
Maryland Mitigation Contracts

Rock Creek Fish Blockage Removal
Washington D.C.

Before

After
Virginia Mitigation Contracts

Silver Property Tidal Wetland
Fredericksburg, VA

Before

After
Financial Overview

Initial Financial Plan Approved in Sept. 2001
  • Total Project Budget = $2.442 Billion

2002 Update Approved in March 2003
  • Total Project Budget = $2.564 Billion

2003 Update Approved in March 2004
  • Total Project Budget = $2.427 Billion

2004 Update Approved in February 2005
  • Total Project Budget = $2.449 Billion

2005 Update Approved in April 2006
  • Total Project Budget = $2.444 Billion

2006 Update Approved in February 2007
  • Total Project Budget = $2.476 Billion

Expenditures through March 2007 = $1,684M
Financial Overview

Total Project Funds = $2.476 Billion

“Special” Federal Funds
$1,544 Million

District of Columbia
$16 Million

Maryland*
$329 Million

Virginia*
$587 Million

* - From various state and/or regular federal funding sources
Current Budget Snapshot

**Total Project Budget = $2.476 Billion**

- Virginia Responsible for $1.146 Billion
- Maryland Responsible for $1.315 Billion
- D.C. Responsible for $16 Million

<table>
<thead>
<tr>
<th>Section</th>
<th>Budget</th>
<th>Virginia</th>
<th>Maryland</th>
<th>DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>River Crossing (BR)</td>
<td>$824M</td>
<td>$824M</td>
<td></td>
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<tr>
<td>I-295 Interchange (MA)</td>
<td>$300M</td>
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<td>$300M</td>
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<td>MD210 Interchange (MB)</td>
<td>$167M</td>
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<td>Maryland Project-wide</td>
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<td>US1 Interchange (VA)</td>
<td>$604M</td>
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<td>Telegraph Road Int. (VB)</td>
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<td>Virginia Projectwide</td>
<td>$177M</td>
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<tr>
<td>District of Columbia I-295</td>
<td>$16M</td>
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<td>$16M</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$2,476M</strong></td>
<td><strong>$1,145M</strong></td>
<td><strong>$1,314M</strong></td>
<td><strong>$16M</strong></td>
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**Effect of State Scope Transfers**

- Total Attributable to Original Scope: $2,476M
  - Virginia: $1,145M
  - Maryland: $1,314M
  - D.C.: $16M
## Current Budget Snapshot

### Project Budget by Element

<table>
<thead>
<tr>
<th>Element</th>
<th>Budget</th>
<th>% of Total</th>
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</thead>
<tbody>
<tr>
<td>Engineering &amp; Program Mgmt.</td>
<td>$304M</td>
<td>12%</td>
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<tr>
<td>Right of Way Acquisition</td>
<td>$185M</td>
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<tr>
<td>ROW Administration</td>
<td>$16M</td>
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<tr>
<td>Construction Contracts</td>
<td>$1,529M</td>
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<tr>
<td>Construction Administration</td>
<td>$183M</td>
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<td>Construction Contingency</td>
<td>$169M</td>
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<td>Mitigation</td>
<td>$36M</td>
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<td>Congestion Management System</td>
<td>$24M</td>
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<tr>
<td>Existing Bridge Rehabilitation</td>
<td>$15M</td>
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<td>Project Contingency</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$2,476M</strong></td>
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# Contract Performance

35 Projects Advertised and Bid to Date

- $1.253 Billion in Contracts Awarded to Date
- $144 Million under budget

Bids are Averaging 10.3% Below Budget

Increased Competitive Climate in Bidding

<table>
<thead>
<tr>
<th>(amounts shown in $million)</th>
<th># of contracts</th>
<th>Project Estimate</th>
<th>Award Amount</th>
<th>% Under Budget</th>
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<td>US Route 1 Construction Contracts</td>
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<td>$277.36</td>
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<td>Telegraph Road Construction Contracts</td>
<td>2</td>
<td>$17.58</td>
<td>$20.13</td>
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<td>Virginia Mitigation Contracts</td>
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<td>$4.64</td>
<td>$3.41</td>
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<td>River Crossing Construction Contracts</td>
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<td>$732.18</td>
<td>$632.49</td>
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<td>I-295 Construction Contracts</td>
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<td>$190.34</td>
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<td>MD 210 Construction Contracts</td>
<td>3</td>
<td>$135.12</td>
<td>$119.03</td>
<td>11.9%</td>
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<td>$8.68</td>
<td>$6.43</td>
<td>25.9%</td>
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<td><strong>Totals</strong></td>
<td><strong>34</strong></td>
<td><strong>$1,401.15</strong></td>
<td><strong>$1,257.25</strong></td>
<td><strong>10.3%</strong></td>
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As of March 2007
Coming Attraction:

The New Woodrow Wilson Bridge

Website:  www.wilsonbridge.com