Design Public Hearing
Bridge Rehabilitation and Widening
on Route 27 over Route 110
Arlington County

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Agenda

- Project Location & Aerial Map
- Existing Bridge Conditions
- Proposed Bridge
  - Bridge configuration
  - Bridge features/aesthetics
- Construction Staging & Maintenance of Traffic
- Schedule & Cost
- Questions / Answers
- Built in 1941
- 4-span continuous steel girders (79’-79’-80’-68’) on a curved alignment.
- 6 lanes of traffic (3 each direction), raised sidewalks & median
- Concrete wall piers, tall abutments and integral vault structures
Existing Bridge Approaches

Rte 27 Looking North

Rte 27 Looking South
Approach Vault Condition
Structural Steel Condition
Proposed Bridge Rendering – Elevation
(Looking West from Rte 110)

- 6-span (65′-91′-79′-80′-80′-73) continuous steel plate girder spans on a curved alignment. Total bridge length 468′.
- Increase vertical clearance over Rte 110 from 15′-4” to 17′-0”
- Accentuate bridge aesthetics with the addition of decorative wrought iron picket fence, LED pedestrian lighting, gateway pillars, parapet recesses, and forest green color.
Proposed Rte 27 Bridge Rendering
(Looking North)

- Gateway Pillars
- Decorative (or Low Level) LED Pedestrian Lighting
- Decorative Wrought Iron Picket Fence
- 14'-0” Shared Use Path
- Recessed Concrete Pattern on Parapet
Proposed Bridge Plan and Elevation
Existing and Proposed Bridge Typical Sections

Existing bridge 96’ total width (8’ sidewalk, 36’ clear roadway, 6’ median, 36’ clear roadway, 8’ sidewalk)

Proposed bridge 105’ total width (8’ sidewalk, 36’ clear roadway, 6’ median, 36’ clear roadway, 14’ multi-use trail)
Architectural Features – Fence

Section

Elevation

Exterior Wrought Iron Picket Fence Detail
Maintenance of Traffic / Staged Construction Stage I

[Diagram showing maintenance and staged construction plans with annotations and details for different stages.]
Maintenance of Traffic / Staged Construction
Stage II
Maintenance of Traffic / Staged Construction
Stage III
Maintenance of Traffic / Staged Construction
Stage V
Anticipated Schedule

Anticipated Schedule:
End of Public Hearing comment period: March 2013
Right of way acquisition: April 2014
Construction: 2014 – 2015 (Tentative)

Estimated Project Costs:
Preliminary Engineering: $1.18 million
Right of way: $206,000
Construction: $18.67 million
Total: $20.1 million
Questions