Agenda

• Meeting Purpose: A New Pedestrian Bridge and Trail
• Project History & Location
• Site Context / Design Constraints
• Recommended Bridge Elevation
• Additional Considerations
• Open House
Meeting Purpose

- Arboretum Bridge & Trail
- Anacostia Waterfront Initiative
• EA / FONSI – 2011 / 2012
• NPS in collaboration with DDOT to realign Section 3 of ART
Project Benefits

- Provide a safe and more natural Anacostia River experience
- Feature connection between east and west trail network
- Bridge as place for both trail and river users
- Extension of US National Arboretum / NPS educational opportunities and programs
Project Location

LEGEND:
- Proposed Arboretum Bridge & Trail Project
- Existing Bike Trails
- Existing Heritage Trails
- Existing National Park Service Trails
- Major Roadway/Interstate
- Water Body
- Wooded Areas
Concept Design
Concept Design

CROSS-SECTION

2’ SUPERPAVE SURFACE
COURSE, 9.5 mm

2’ SUPERPAVE BASE
COURSE, 19 mm

3.1 MAX

6.1

5’

6’

2’

2’

2% 2%

6’

5’

6’

4” TOPSOIL & SEED

4” STABILIZED SOIL

6” GRADED AGGREGATE
BASE COURSE
Concept Design

Early Concepts from EA/FONSI

**OPTION 1 - PLATE GIRDER ELEVATION**

**OPTION 2 - PRE-FABRICATED BRIDGE ELEVATION**
Concept Design

16’ out-to-out deck

14’ clear

8” CP concrete deck

Pedestrian railing
Site Context

1. Looking towards US National Arboretum, West Bank of the Anacostia River
2. Looking towards future East Abutment towards Kenilworth Park
3. View looking North from Kenilworth Park, East Side
4. Adjacent Kenilworth Park Trail segment, East Side
Site Context

Photo 5. View from Arboretum side looking towards Kenilworth Park

Photo 6. View from Kenilworth Park

Photo 7. View of existing trail connection

Photo 8. View of existing trail connection
Site Context

Photo 12. View towards arboretum fence

Photo 13. View from west shore looking west

Photo 14. View from west shore Looking northeast

Photo 15. View from west shore Looking southeast
Site Context

- Kenilworth Trail by Aquatic Gardens
- Anacostia River Trail over CSX
- Anacostia River Trail along Section E of Anacostia Park
- Anacostia River Trail over CSX
- Anacostia River Trail over CSX
- Kenilworth Trail Pedestrian Bridge near Dean Ave.
Design Constraints

Early Concepts from EA/FONSI
Design Constraints

- Kenilworth Landfill
- Two Seawalls
- Freeboard
  - MHW EL. 2.04
  - 100 yr EL. 15.00
  - DEM: 2 ft. above 100 yr
- Construction Footprint & Cost
- Future Maintenance
- Aesthetics
Design Constraints

- EA/FONSI Concepts (2011-2012)


- Early Pier Concepts (2016-2017)
Design Constraints
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Design Constraints

- Proposed USCG Channel
  - 80’ Wide x 16’ High
  - 20’ buffers
  - 120’ Span
Design Constraints

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Additional Considerations

River User Safety:

At 225’ wide, (low tide) this stretch of the Upper Anacostia allows for 5 lanes – two upstream, two downstream, one for traffic separation / stationary instruction.

*Lanes are 45’ wide each*
Original Span Configuration

- Span arrangement same as EA/FONSI Concept
- Vertical clearance per DEM
Alternative Span Configuration

- **Shifted East (18’-6”)**
New Span Configuration

- *Shifted East* – with Spans 2 and 3 lengthened to 132’-6”
- *Pier 3 Integral with Seawall*
Original Span Configuration
Next Steps

- 30 Day Input Period
- Continued Public Outreach & Agency Coordination
- Geotechnical testing
- 65% Design
- Follow-up Public Meeting
- 90% Design
- Submission of Plans, Specifications & Estimates
Thank You

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Site Visit Video