HUNTER MILL ROAD OVER COLVIN RUN BRIDGE REPLACEMENT
PROJECT NO. 0674-029-358; UPC 110499 (PE) & 110433 (CN)
FAIRFAX COUNTY

DESIGN PUBLIC HEARING
Wednesday, September 16, 2020

Gary Runco, P.E. – VDOT NOVA District Bridge Engineer
Virtual Design Public Hearing in Response to COVID-19

The virtual public hearing and VDOT website provides the same information as an in-person hearing:

✔ Project information
✔ Estimated schedule and cost
✔ Processes for submitting comments
✔ Key contacts
GoToWebinar Tips

- Expand the Questions Box
- Type in [Enter a question for staff] to ask a written question
- All participants are muted. “Raise Your Hand” if you’d like to ask a verbal question at the end of the meeting.
  - The moderator will state your name when it is your turn to ask a question
- If you are trying to speak, be sure your microphone is unmuted
- If you get disconnected, please attempt to rejoin the meeting.
Project Team

Gary Runco, P.E.
District Bridge Engineer, Structures and Bridge

Vicente Valeza, P.E.
Project Manager
Structures & Bridge

Brian Graham, P.E.
Consultant

Andrew Beacher, P.E.
Manager
Preliminary Engineering
Meeting Agenda

- Purpose of the Project
- Existing Bridge Conditions/Recent Improvements
- Source of Funding
- Proposed Design Elements
- Construction and Maintenance of Traffic
- Current Schedule & Costs
- Questions and Comments
Purpose of the Project

• Replace a one-lane structurally deficient bridge
Existing Bridge Conditions - Superstructure

- Condition Rating = 3 (Serious)
- Significant corrosion of steel girder webs and flanges

➤ Bridge is structurally deficient
Existing Bridge Conditions

Timber bent added in 2012

Knee braces added in 2016

2020 lane restriction

NOTE:
Bridge was originally built in 1974
Improvements/Modifications as of Feb 29, 2020

• Additional wooden beams added between “I” beams

• Load Rating reduced to 10 tons

• One lane bridge width reduced to approximately 10’
Funding Source

State of Good Repair (SGR) Funds

• Intent of SGR funding is to remove the bridge from ‘Structurally Deficient’ status

• Allowances and limitations on bridge design:
  o Additional widening to two lanes to match existing roadway
  o Additional widening to accommodate pedestrians if existing on approach roadway
  o Additional widening to accommodate other local features
  o Does not allow extensive approach roadway improvements of existing substandard roadway features or conditions
Proposed Design Elements

Design Criteria

• A bridge span length of 40’-0” (existing bridge is 30’-0”)
• Waterway opening - sized to pass a 25-year flood level
• Bridge section includes two (2) - 11’ lanes and shoulders on both sides
• Splitter Island
• Design Speed would match the existing posted speed limit of 35 mph
Proposed Design Elements

Fairfax County Comprehensive Plan

• Makes reference to the Hunter Mill Road Traffic Calming Study
  
  o Hunter Mill Road is classified as a Virginia Scenic Byway

• Countywide Trails Plan: Minor paved trail with parallel natural surface

• Countywide Bicycle Master Plan: Striped shoulder
Proposed Plan View
Proposed Bridges Cross Sections
Proposed Roadway Cross Section
Proposed Traffic Control at Trail Crossing – RRFB

Rectangular Rapid Flashing Beacon (RRFB)
Bridge Elevation

Swinks Mill Road Bridge
(Sample Architectural Treatment)

Note:
Architectural details subject to change.
Construction and Maintenance of Traffic

- Construction Options:
  - Complete Road Closure
  - Staged Construction

- Detour as necessary:
  - Existing distance from Dulles Toll Road to Baron Cameron Avenue = 2 miles
  - Detour length from Dulles Toll Road to Baron Cameron Avenue = 4 miles
Staged Construction Option

**PHASE 1**

- Maintain one lane traffic on the existing bridge (no impact to the current traffic operation)
- Construct half of the new bridge (east side) – approximately 5 months
Staged Construction Option

PHASE 2

- Shift the traffic to the east using the section built in Phase 1
- Maintain one lane of traffic (no impact to the current traffic operation)
- Demolish the existing bridge
- Build the remaining half of the new bridge (west side) – approximately 5 months
**Staged Construction Option**

**PHASE 3**

- Shift the traffic to the west using the bridge built in Phase 2
- Maintain one lane of traffic (no impact to the current traffic operation)
- Construct the median/splitter island – approximately 2 months
Staged Construction Option
Completed Bridge Section

- Divided traffic one lane each direction
Northbound Rendering

BEFORE

AFTER
Road alignment shifted slightly to the east
## Anticipated Project Costs

<table>
<thead>
<tr>
<th>Phase</th>
<th>Bridge &amp; Approaches (VDOT)</th>
<th>Splitter Island (Fairfax County)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary Engineering (PE)</td>
<td>$ 700,000</td>
<td>$ 163,000</td>
</tr>
<tr>
<td>Construction (CN)</td>
<td>$ 3,900,000*</td>
<td>$ 245,000</td>
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<tr>
<td>Total</td>
<td>$ 4,600,000</td>
<td>$ 408,000</td>
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</tbody>
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*The bridge replacement/widening is funded with State of Good Repair funds.*
# Project Development

<table>
<thead>
<tr>
<th>Milestones</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Public Information Meeting</td>
<td>April 16, 2018</td>
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<tr>
<td>Public Outreach</td>
<td>2018 – Ongoing</td>
</tr>
<tr>
<td>Public Hearing</td>
<td>September 16, 2020</td>
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<tr>
<td>90% Plans</td>
<td>Fall 2020</td>
</tr>
<tr>
<td>Advertise for Construction</td>
<td>Winter 2020-2021</td>
</tr>
<tr>
<td>Award Contract</td>
<td>Spring 2021</td>
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<tr>
<td>Contract Completion</td>
<td>Summer 2022</td>
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How to submit your comments

Give feedback on the virtual public hearing in the following ways by Monday, September 28, 2020:

Leave a Voicemail
703-584-0479

Email Us
meetingcomments@vdot.virginia.gov
Please reference “Hunter Mill Road over Colvin Run Bridge Replacement” in the subject line.

In-person by Request
During business hours at VDOT’s Northern Virginia District
4975 Alliance Drive
Fairfax, VA 22030
Please call ahead to 703-259-3256 or TTY/TDD 711 to make an appointment with appropriate personnel.

Mail Us
Mr. Vicente Valeza, P.E.
VDOT’s Northern Virginia District
4975 Alliance Drive
Fairfax, VA 22030

Comment
In the Questions window during the virtual public hearing or online at virginiadot.org/huntermillcolvinrun.
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THANK YOU!

www.virginiadot.org/huntermillcolvinrun