Proposed Bridge Replacement for Aden Road (Rte 646) over the Norfolk Southern RR, Nokesville, Virginia Location, Background, Preferred Option

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Project Location & Key Features

- Aden Rd
- Rural Major Collector
  - AADT 2,354 (2011)
  - AADT 4,900 (2036)
- Bristoe Station
- 1863 Battlefield
- 1862 Battlefield
- Kettle Run
- 1862 Battlefield
- Major Commercial & Residential Developments
- 1882 Truss
- Nat’l Historic Registry
- Rural Crescent
Proposed Bridge

- Prince William County’s transportation plan indicates increasing the capacity of Aden Road
  - Average Daily Traffic is expected to increase from 2,800 to 4,900 by 2036
- Funding for the project was approved by the Prince William County Board of Supervisors in 2008 and it is in VDOT’s Six Year Plan
- County requires two lanes over the Norfolk Southern RR
- New bridge will be maintained by VDOT in accordance with the current Virginia Code
- Meet Norfolk Southern design requirements for vertical & lateral clearance for future conditions
General History

- Bridge is a wrought iron truss built in 1882 by Keystone Bridge Company for the Virginia Midland Railway to carry a single track railway.
- Relocated to its current location sometime between 1904 and 1928 by Southern RR.
- Placed on the National Historic Registry in 1977.
- Owned and maintained by Norfolk Southern Railroad.
- VDOT inspects and monitors the bridge.
  - Presently classified as Structurally Deficient & posted for a 6 ton weight limit.
  - Health Index rating is 47 out of 100 and Sufficiency Rating is 24.3 out of 100.
Draft Perspective Rendering for Preferred Option

SB – New bridge w/ steel beams & concrete deck
NB – Rehabilitated 1882 truss on Hammerhead abutments
Existing view of single lane 1882 truss crossing over NSRR from north approach on Aden Rd

Proposed view of new 2-lane road crossing over NSRR w/ new bridge & 1882 truss from north approach on Aden Rd
Draft Elevation Rendering for Preferred Option

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ADEN ROAD (RTE 646) OVER NS RAILWAY