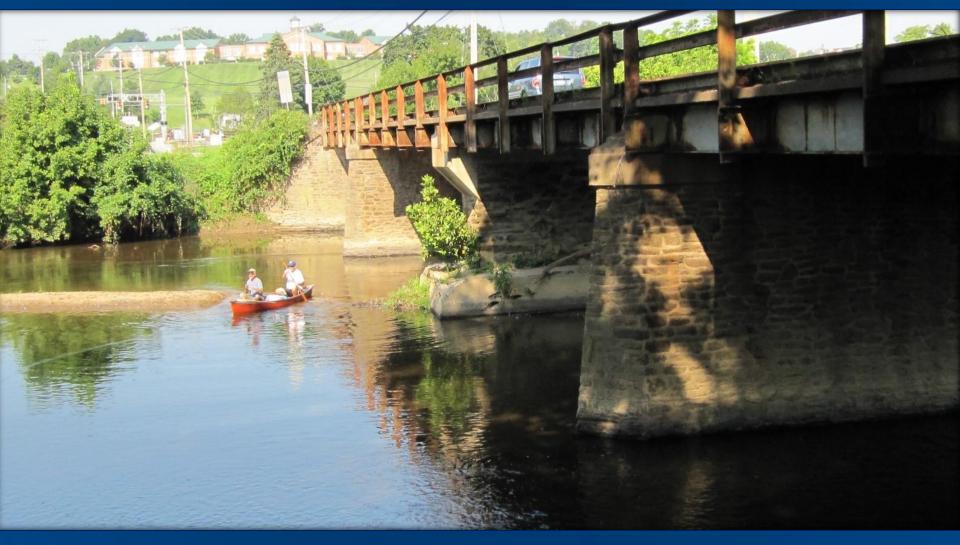
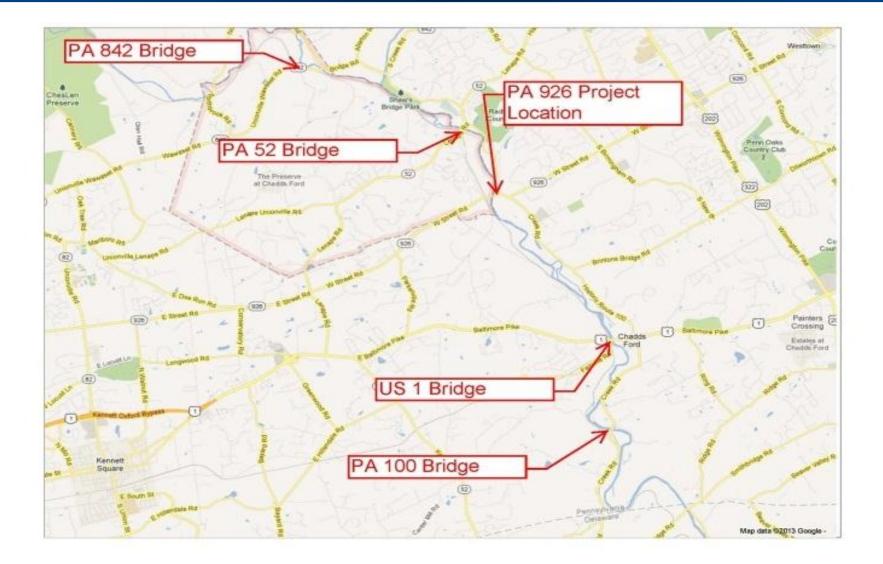
SR 0926 Improvement Project Public Meeting

May 7, 2014



Project Area



Hurricane Floyd



Radley Run Side

(East intersection of Creek Road and SR 0926) Brandywine Creek Side

(Standing at rail crossing on west side of Brandywine Creek Crossing)

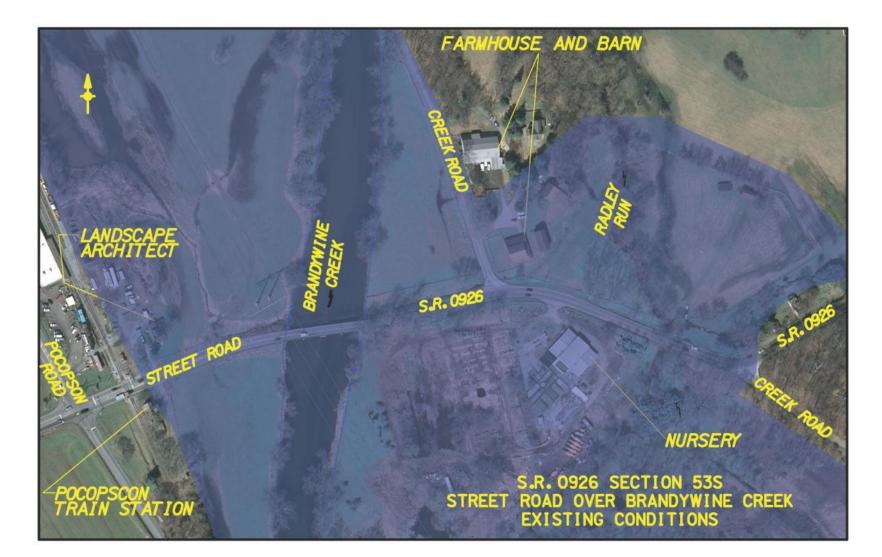
Needs

- S.R. 0926 Bridge is Structurally Deficient/Functionally Obsolete
- Frequent flooding (3-9 times per year) by Brandywine Creek impacts travel time:
 - Emergency Service Providers
 - Elementary School Access

> Road does not meet current standards

- Site Distance
- Geometry
- Cross Section
- Design-Storm

Design Considerations FEMA Jurisdiction



Design Considerations Design Storm

- Design Storm is determined by classification of road in relation to probability of overtopping
- Probability of overtopping is quantified by 25 year storm, 100 year storm
 - 25 year storm (4% chance of occurring)
 - 100 year storm (1% chance of occurring)
- SR 0926 design storm is 25 year (4%) storm
 - Design team checks the impact of the 100 year (1%) storm

Design Considerations Historic Properties

- > Painter Farm and Mill Complex
- > Brandywine Battlefield National Historic Landmark
- > Pocopson Train Station
- > Two Known Archaeological Sites

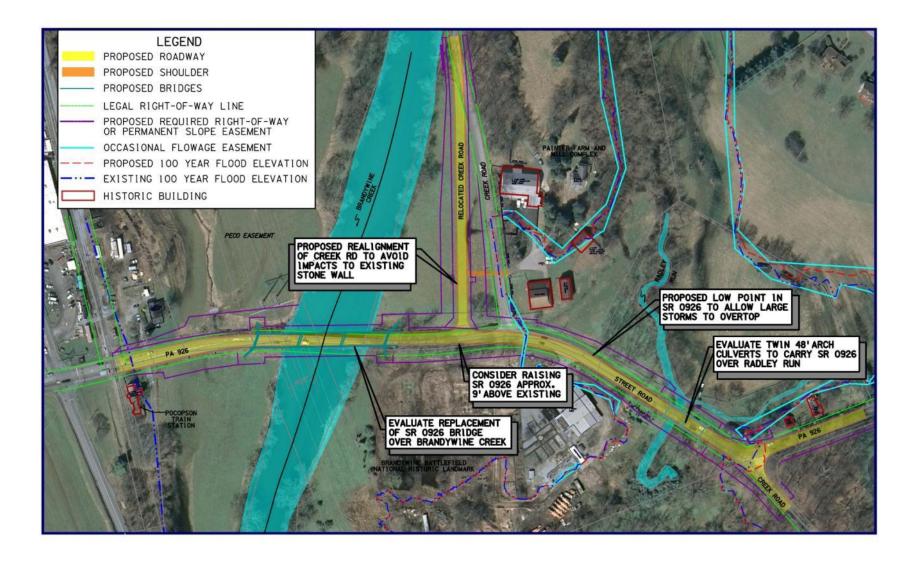
Design Considerations Historic Properties



Proposed SR 0926 Improvement Project

- Evaluate Raising 1700' of SR 0926 approximately 9' to Reduce Flooding
- Study Replacement of Existing SR 0926
 Bridge over Brandywine Creek
- Evaluate Replacement of Existing SR 0926
 Culvert over Radley Run culvert
- Examine Raising and Realigning 800' of existing Creek Road to Reduce Flooding and Avoid Historic Properties

Proposed SR 0926 Improvement Project



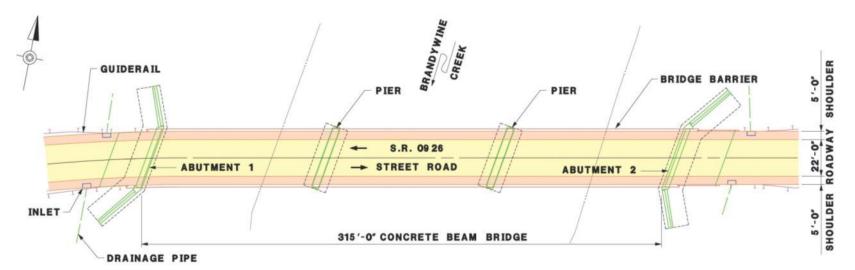
Proposed SR 0926 over Brandywine Creek



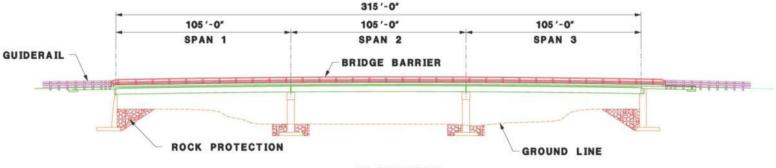
Proposed SR 0926 at Brandywine Creek Facts

- > Roadway Approaches Flood 3-9 Times a Year
- Existing Bridge 4 span 190' long structure
- Proposed Bridge Evaluate a 3 span 315' long structure

Proposed SR 0926 over Brandywine Creek



PLAN

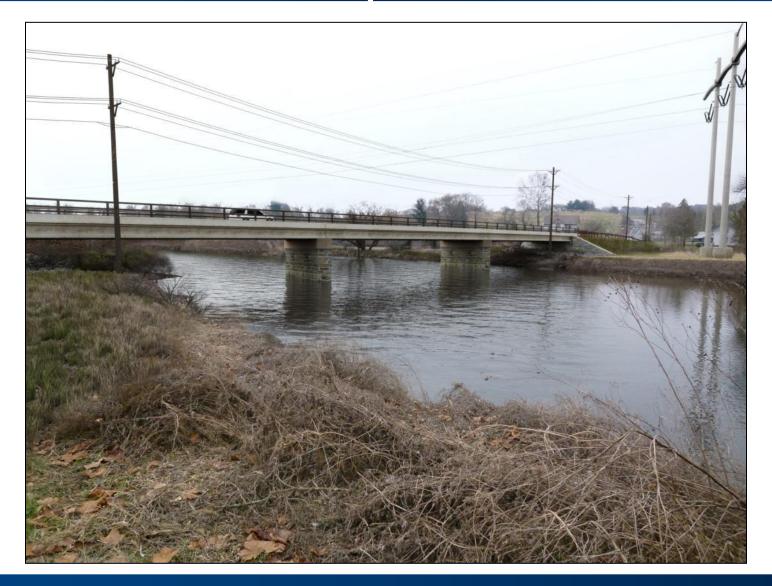


ELEVATION

SR 0926 over Brandywine Creek Existing



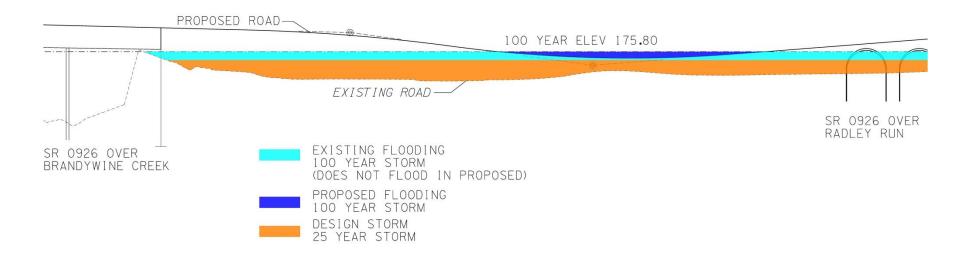
SR 0926 over Brandywine Creek Proposed



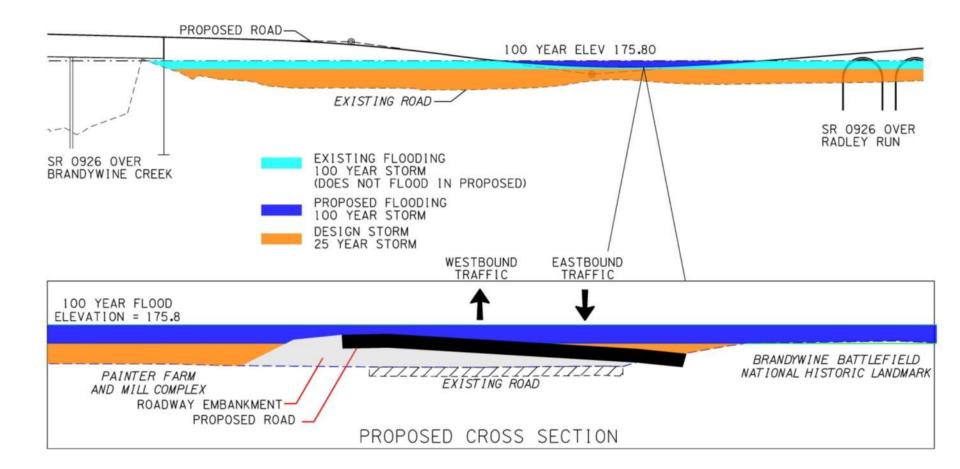
Proposed SR 0926 and Creek Road Raise/Realignment



Proposed SR 0926 Profile Raise

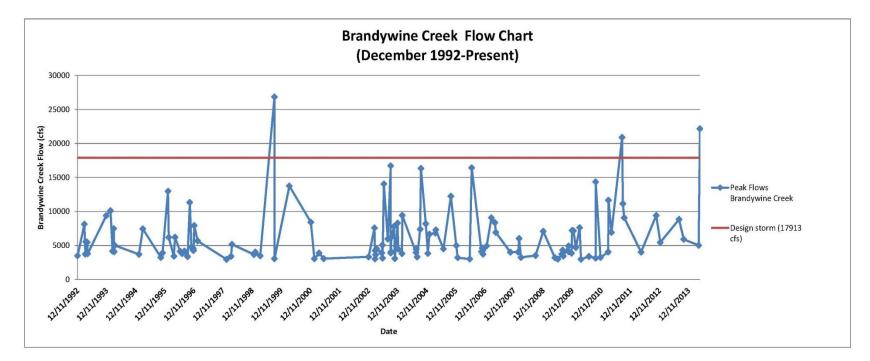


Proposed SR 0926 Profile Raise



SR 0926 Overtopping Frequency

- SR 0926 design storm is the 25 year storm (4% probability) (red line)
- > The 25 year storm has been exceeded twice since December 1992
 - Hurricane Floyd (1999) and Hurricane Irene (2011)



SR 0926/Creek Road Intersection Existing



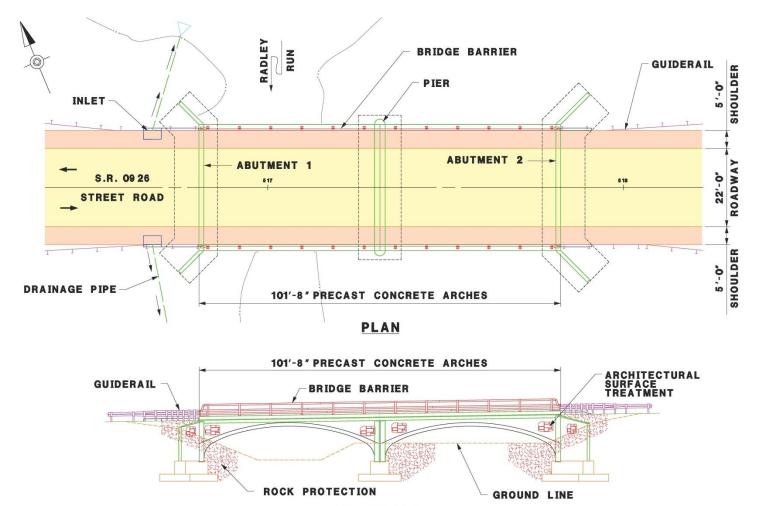
SR 0926/Creek Road Intersection Proposed



Proposed SR 0926 Twin Arch Culverts over Radley Run



Proposed SR 0926 Twin Arch Culverts over Radley Run



ELEVATION

SR 0926 over Radley Run Existing



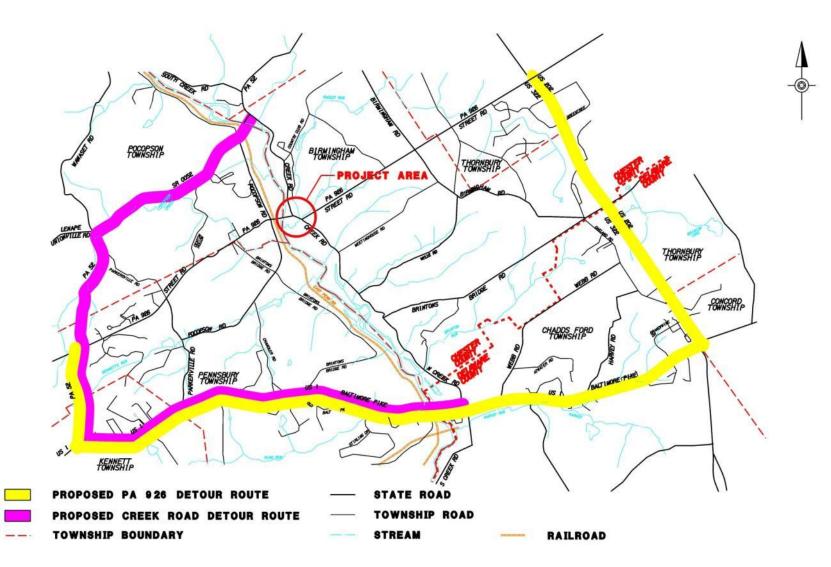
SR 0926 over Radley Run Proposed



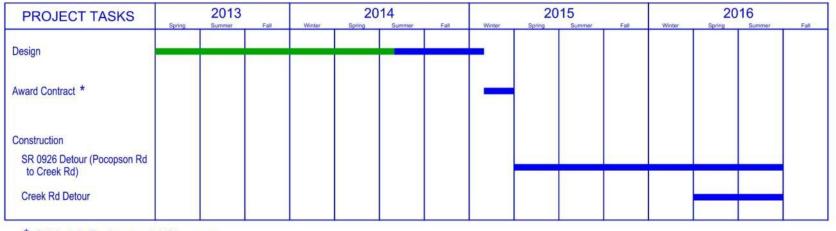
Proposed Maintenance and Protection of Traffic during Construction

- Construction of proposed project cannot be staged to maintain traffic on SR 0926
- Adjacent Historic properties preclude temporary realignment of SR 0926
- Project to be constructed under detour
- Project will take approximately 18 months depending on start time.
- > Two detours proposed:
 - SR 0926 full duration of project
 - Creek Road second season of project

Proposed Detour



Anticipated Project Schedule



* Subject to Environmental Clearance

Completed

Planned



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