

**MOTION:**

**May 10, 2022  
Regular Meeting  
Res. No. 22-**

**SECOND:**

**RE:               ENDORSE THE FINAL DESIGN OF THE ROUTE 234 BRENTSVILLE INTERCHANGE  
PROJECT – COLES MAGISTERIAL DISTRICT**

**ACTION:**

**WHEREAS**, the Route 234 Brentsville Interchange Project (Project) consists of constructing a grade separated interchange at the intersections of Route 234 Bypass with Prince William Parkway (Route 294), Dumfries Road (Route 234 Business), and Brentsville Road. Additionally, the Project realigns a section of Brentsville Road to connect directly with Route 234 Business through a bridge structure over the Route 234 Bypass. The new improvements will remove the two (2) existing signals and provide for a more free-flow movements across the Route 234 Bypass which will help reduce delays. The design also introduces a continuous Green-T intersection on Prince William Parkway (Route 294) and Bradley Cemetery Way, that will improve operations at this intersection as well as the construction of a pedestrian / bike bridge over Route 234 Bypass which will improve connectivity and safety in the area; and

**WHEREAS**, on September 4, 2018, via Resolution Number (Res. No.) 18-480, the Prince William Board of County Supervisors (Board) authorized the execution of a standard project agreement between Prince William County and the Northern Virginia Transportation Authority (NVTa) for local administration of the Project, NVTa project #2018-034-1 and budgeted and appropriated \$54,900,000. This is adequate to cover the execution of all of the Project's requirements, including the change order for the pedestrian / bicycle bridge at \$4,045,234.60; and

**WHEREAS**, the Planning Commission has reviewed this Project as part of the Fiscal Year (FY) 2020 Capital Improvement Program adopted on April 30, 2019; and

**WHEREAS**, on January 12, 2021, via Res. No. 21-019, the Board awarded a Public-Private Transportation Act Comprehensive Agreement and Contract to Wagman Heavy Civil, Inc., to design and construct the Project for a total amount of \$40,954,459; and

**WHEREAS**, a design public hearing was advertised and held on December 8, 2021, in accordance with the legal requirements to present the design and solicit public input; and

**WHEREAS**, a public information presentation was posted on the County's project web page on March 22, 2022, to address some of the public hearing's comments; and

**WHEREAS**, this Project addresses relieving existing and projected traffic congestion, as well as improving pedestrian and bike connectivity and safety within the Project limits; and

**May 10, 2022**  
**Regular Meeting**  
**Res. No. 22-**  
**Page Two**

**WHEREAS**, this Project will introduce a new interchange on a roadway that is currently within a limited access right-of-way requiring a few changes. Any change, and / or break, in limited access controls requires the Board's endorsement before it can be considered by the Commonwealth Transportation Board for approval; and

**WHEREAS**, County staff recommends that the Board approve this resolution endorsing the final design of the Project;

**NOW, THEREFORE, BE IT RESOLVED** that the Prince William Board of County Supervisors hereby endorses the final design of the Route 234 Brentsville Interchange Project in the Coles Magisterial District.

ATTACHMENT: Final Design – Route 234 Brentsville Interchange Project

**Votes:**

**Ayes:**

**Nays:**

**Absent from Vote:**

**Absent from Meeting:**

**For Information:**

Director of Transportation

**ATTEST:** \_\_\_\_\_  
**Clerk to the Board**



# Route 234-Brentsville Road Interchange Project

VDOT Project: 0234-076-323

Design Build Team



Prince William County  
Virginia

Project Location



North Arrow & Scale



Legend

	Existing Right of Way
	Proposed Right of Way & Limited Access Line
	Proposed Limited Access Line
	Proposed Acquisition
	Proposed Permanent Easement
	Proposed Temporary Construction Easement
	Existing Easements
	Property Line
	Proposed Limits of Construction - Cut
	Proposed Limits of Construction - Fill
	Proposed Light Pole
	Signal
	Traffic Arrows

## Contact Information

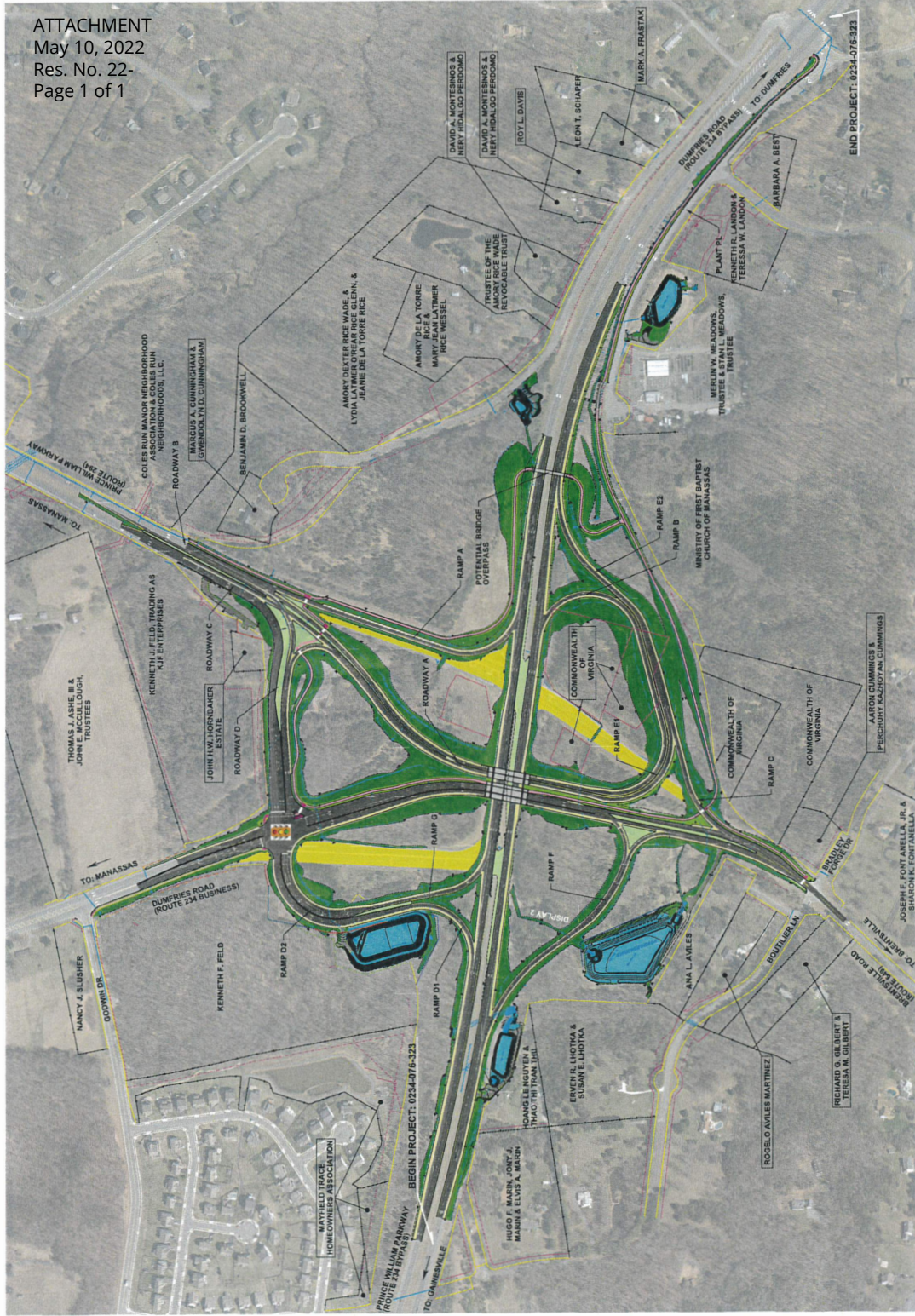
Mary Rogers  
Prince William County Department of Transportation  
5 County Center  
Stafford, Virginia 22152  
Comments may also be sent to  
MANW@wagman.org

These plans are preliminary and subject to change without notice. They are not to be used for any other purpose without the express written consent of the County of Prince William, Virginia.

Project: 0234-076-323  
Sheet: 0234-076-323.1  
Date: 10/10/2022

Project: 0234-076-323

ATTACHMENT  
May 10, 2022  
Res. No. 22-  
Page 1 of 1







# **STAFF REPORT**

## **The Board of County Supervisors**

Ann B. Wheeler, Chair  
Margaret Angela Franklin, Vice Chair  
Victor S. Angry  
Andrea O. Bailey  
Kenny A. Boddye  
Pete Candland  
Jeanine M. Lawson  
Yesli Vega

<b>Board Meeting Date:</b>	May 10, 2022
<b>Agenda Title:</b>	Endorse the Final Design of the Route 234 Brentsville Interchange Project
<b>District Impact:</b>	Coles Magisterial District
<b>Requested Action:</b>	Approve the resolution and endorse the final design.
<b>Department / Agency Lead:</b>	Department of Transportation
<b>Staff Lead:</b>	Ricardo Canizales, Director

## **EXECUTIVE SUMMARY**

On January 12, 2021, via Resolution Number (Res. No.) 21-019, the Prince William Board of County Supervisors (Board) awarded a Public-Private Transportation Act Comprehensive Agreement and Contract to Wagman Heavy Civil, Inc., to design and construct the Route 234 Brentsville Interchange Project (Project) for a total amount of \$40,954,459.

The Project consists of constructing a grade separated interchange at the intersections of Route 234 Bypass with Prince William Parkway (Route 294), Dumfries Road (Route 234 Business), and Brentsville Road. The final design of the Project will improve operations at these intersections and includes the following:

1. Construction of two (2) bridges over Route 234 Bypass, removing the signals at intersections of Dumfries Road (Route 234 Business) and Prince William Parkway (Route 294). The new bridges will provide free-flow movements from Route 234 Bypass to eastbound Prince William Parkway (Route 294), as well as westbound Prince William Parkway (Route 294) to southbound Route 234 Bypass.
2. Northbound Route 234 Bypass will have a free-flow ramp towards eastbound Prince William Parkway (Route 294).
3. The intersection of Prince William Parkway (Route 294) at Bradley Cemetery Way will be converted to a continuous Green-T intersection that allows eastbound Prince William Parkway (Route 294) to be free flowing.
4. Westbound Prince William Parkway (Route 294) will have free right turns towards the intersection with Dumfries Road (Route 234 Business).
5. Construction of share use path within the project limits, in addition to construction of a mobility bridge crossing over Dumfries Road for pedestrian and bicycle traffic only that provides connectivity to major trails in the area.

It is the recommendation of County staff that the Board endorse the final design of the Route 234 Brentsville Interchange project.

## BACKGROUND

---

On September 4, 2018, via Res. No. 18-480, the Board authorized the execution of a standard project agreement between Prince William County and the Northern Virginia Transportation Authority (NVTa) for local administration of the Project, NVTa project #2018-034-1 and budgeted and appropriated \$54,900,000.

The Project consists of constructing a grade separated interchange at the intersections of Route 234 Bypass with Prince William Parkway (Route 294), Dumfries Road (Route 234 Business), and Brentsville Road. Additionally, the Project realigns a section of Brentsville Road to connect directly with Route 234 Business through a bridge structure over Route 234 Bypass. The new improvements will remove the two (2) existing signals and provide for a more free-flow movements across the Route 234 Bypass which will help reduce delays. The design also introduces a continuous Green-T intersection on Prince William Parkway (Route 294) and Bradley Cemetery Way that will improve operations at this intersection, and the construction of a pedestrian and bicycle bridge over Dumfries Road to connect major trails in the area in a safer manner.

The Planning Commission has reviewed this Project as part of the Fiscal Year (FY) 2020 Capital Improvement Program adopted on April 30, 2019.

On January 12, 2021, via Res. No. 21-019, the Board awarded a Public-Private Transportation Act Comprehensive Agreement and Contract to Wagman Heavy Civil, Inc., to design and construct the Project for a total amount of \$40,954,459.

A design public hearing was advertised and held on December 8, 2021, in accordance with the legal requirements. The public was able attend in person as well as participated online.

A ten (10) day comment period occurred following the public hearing. During this period, many comments were received in respect to pedestrian and bicycle safety and connectivity within the Project limits. A change order of \$4,045,234.60 was negotiated and approved to add a pedestrian / bicycle bridge to the Project across the Route 234 Bypass.

On March 22, 2022, a recorded public information presentation was posted to the County's project web page to address some of the public hearing's comments. This presentation included renderings of the new interchange bridges, an explanation of the destination maps, a discussion of the additional traffic control measures along Brentsville Road south of the interchange to avoid potential speeding, an exhibit showing how the shared use path along the north bound side of the Route 234 Bypass can be extended in the future, and lastly a discussion of the proposed pedestrian / bike bridge over the Route 234 Bypass and its connectivity to surrounding trails. A ten (10) day comment period occurred following the posting of the public information presentation.

A noise study was completed as part of the preliminary engineering work for the Project which concluded that no sites within or adjoining the Project area are predicted to experience noise impacts approaching or exceeding the Noise Abatement Criteria under the future design year (2045) and build condition. This study is currently being re-evaluated using the final design configuration, but no sound barriers are anticipated as being required as part of this Project.

The Project will change the limited access controls in this area. This change requires the Board's endorsement before it can be considered by the Commonwealth Transportation Board for approval.

## **STAFF RECOMMENDATION**

---

It is the recommendation of County staff that the Board endorse the final design of the Project.

### **Service Level / Policy Impact**

This Project supports the County's Transportation and Mobility (TM) Strategic Plan objectives TM2: A "To improve multi-modal options improve by improving connectivity of sidewalks and trails (paved and unpaved) for pedestrians and cyclists" and TM4: E "To decrease congestion and fossil fuel vehicle usage, and improve travel time reliability with the focus on cost effective and innovative transportation designs that improve traffic flow to reduce congestion and reduce the need for future roadway widening."

### **Fiscal Impact**

This Project is supported by \$54,900,000 in NVTAF funding. This is adequate to cover the execution of all of the Project's requirements including the approved change order for the pedestrian / bicycle bridge negotiated at \$4,045,234.60.

### **Legal Impact**

The Board has the legal authority to endorse the final design of the Route 234 Brentsville Interchange Project.

## **STAFF CONTACT INFORMATION**

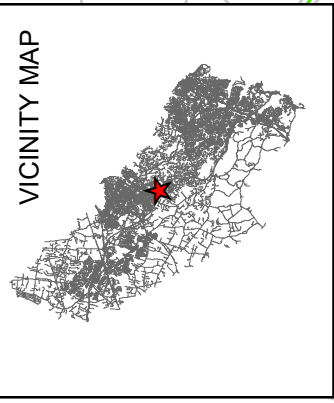
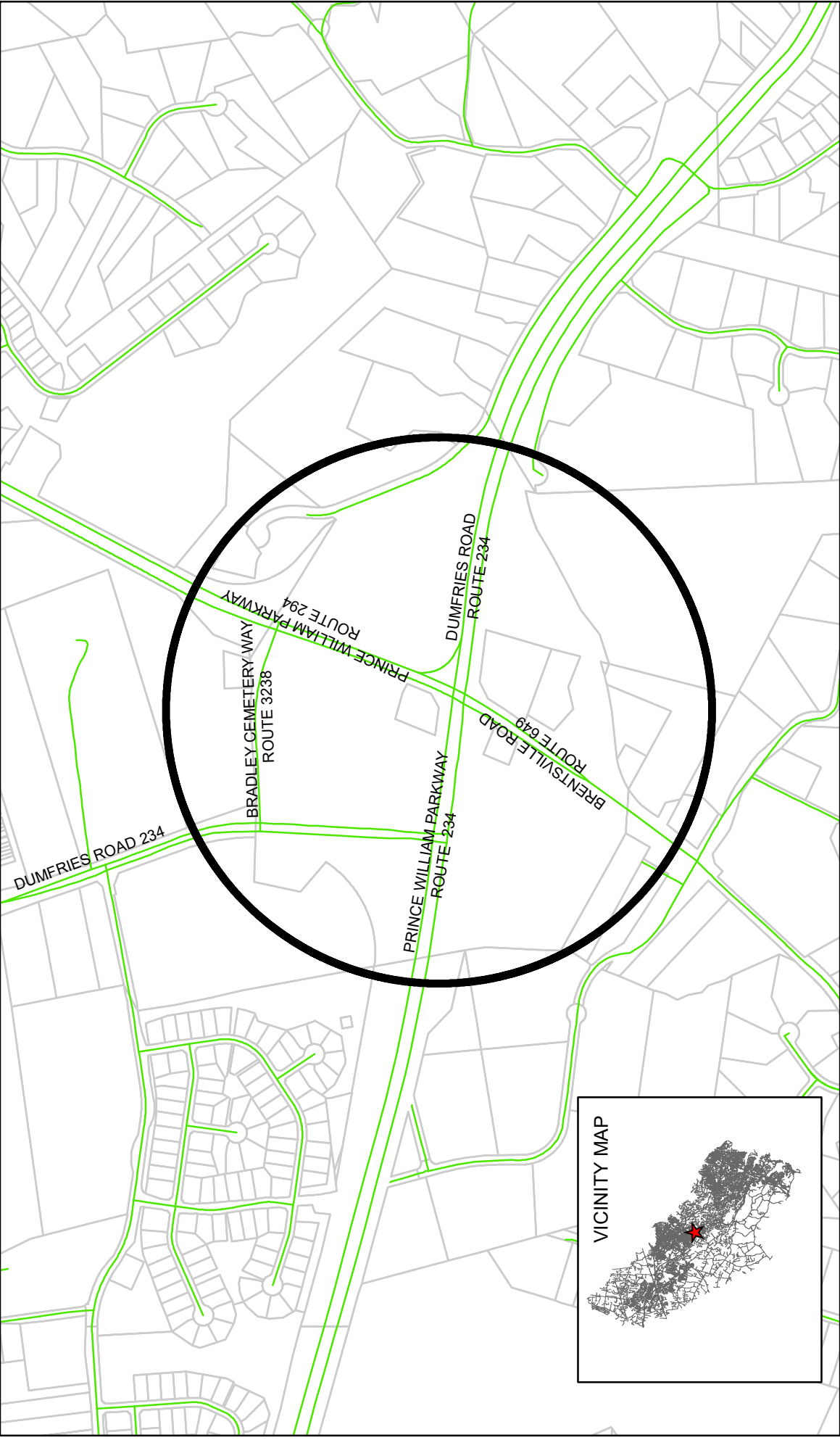
---

Mary Ankers | (703) 792-4228  
mankers@pwcgov.org

## **ATTACHMENT**

---

Vicinity Map – Construct Interchange at Route 234 and Brentsville Road Project



NORTH

# ROUTE 234 BRENTSVILLE ROAD INTERCHANGE PROJECT

MAY 10, 2022