

# Route 311 / Route 419 Int. Safety & Congestion Improvements

Submitted

HB 2 Application

Project Application ID: **266**

Created: 09/18/2015 @ 4:35PM by David Holladay

Last Updated: 09/30/2015 @ 11:39AM by David Holladay

## General

### Point of Contact Information

Point of Contact Name	Point of Contact Phone	Point of Contact Email
David Holladay	(540) 772-2080	dholladay@roanokecountyva.gov

### Project Information

Project Title	Principal Involvement
Route 311 / Route 419 Int. Safety & Congestion Improvements	Highway

**Does this project include any improvements to non-VDOT maintained roadways?**

No

### Project Description

This project will convert an existing signalized intersection to a roundabout. The intersection experiences significant congestion during the AM and PM peak hours. The project will include access management for the adjacent businesses and for the Unofficial VDOT Orange Market and Hanging Rock Park and Pool lots. Though not shown on the sketch, the project will include paved shoulders for bicycle access, as well as pedestrian

crosswalks within refuge islands to connect to businesses and to the Hanging Rock Battlefield Trail (Greenway). Unofficial Park and Pool improvements may also be incorporated. Additional right of way and/or easements may be required for drainage and utility relocations.

**HB2 Need Categories**

Regional Network  
Urban Development Area

**Application Program**

District Grant

**How does this project address VTrans 2040 need?**

Roanoke MPO Region Needs Summary Map Corridor Reliability - the Route 311 / 419 intersection experiences significant congestion during the AM and PM peak hours. Commuter traffic from northwest Roanoke County, Craig County and localities in West Virginia travel through the intersection daily. All middle and high school students from northwest Roanoke County travel through this intersection daily to either Northside or Glenvar schools. Inter-Regional Network Connectivity - the Route 311 corridor connecting to northwest Roanoke County, Craig County and West Virginia is identified as one of six commuter / freight corridors, other than I-81, leading in and out of the Roanoke Valley. Strategically Targeted Affordable Roadway Solutions (STARS) Congestion Mitigation Program Pilot Phase VDOT procured a STARS study of the Route 311/419 intersection, prepared by Kimley-Horn Associates, Inc., dated June 10, 2011. The recommendations of this study are the basis for this application. Designated Growth Areas Area #1, I-81/Glenvar/Hollins Comprehensive Plan amendment adopted by Roanoke County Board of Supervisors, 09/22/2015, documents Designated Growth Areas. Project would reduce congestion and enhance network connectivity within the DGA, as well as provide access to the DGA from neighboring jurisdictions.

 Location

**Areas Served**

**PDCs Served**

Roanoke Valley-Alleghany Regional  
Commission

**MPOs Served**

Roanoke Valley Area MPO

**Jurisdictions Served**

Roanoke County

**Districts Served**

Salem

 Features

## Project Improvements

### Highway

<b>Improvement</b>	<b>Comments</b>
Access Management	The entrances to the adjacent properties will be reconstructed to provide standard commercial access with adequate spacing from the intersection.
Intersection Improvement(s)	Existing signalized intersection will be converted to a roundabout.
Shoulder Improvement(s)	Paved shoulders will be incorporated for bicycle accommodations.

### Bike/Pedestrian

<b>Improvement</b>	<b>Comments</b>
Paved Shoulder (Minimum 4-Foot Ridable Surface)	Paved shoulders will be provided for bicycle accommodations
Improve Bike/Pedestrian Crossing (At Grade)	Pedestrian crosswalks will be incorporated into the roundabout design using refuge islands to connect to the existing businesses and the Hanging Rock Greenway.
Bike/Pedestrian Other	The Hanging Rock Battlefield Trail (Greenway) runs to the south of the proposed roundabout and is a major recreational amenity, measuring 1.7 miles in length. The greenway begins in the City of Salem along Kessler Mill Road and continues north into Roanoke County, terminating at the Hanging Rock Memorial Battlefield Park trailhead parking lot. Future plans for the Hanging Rock and adjoining Mason Creek and Masons Cove Greenways are to connect the Roanoke River Greenway and the Appalachian Trail.

### Travel Demand Management (TDM)

<b>Improvement</b>	<b>Comments</b>
Improve Park and Ride Lot	The Unofficial Orange Market and Hanging Rock VDOT Park and Pool lots

will be improved with modified entrances, bicycle racks and signage.

## Right of Way

Improvement	Comments
Right of Way/Easements acquisition required	Right of way and/or easements may be required for drainage and utility relocations.

## Factors

### Accessibility

Accessibility	Response	Additional Notes
Project includes transit system improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.	No	
Project includes improvements to an existing or proposed park and ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	Yes	The Unofficial Orange Market and Hanging Rock VDOT Park and Pool lots will be improved with modified entrances.
Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required.	No	
Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	Yes	Pedestrian crosswalks within roundabout refuge islands will connect to businesses and to the Hanging Rock Greenway.
Project includes improvements to existing or new HOV/HOT lanes or ramps to HOV/HOT.	No	
Project provides real-time traveler information or wayfinding specifically for intermodal connections (access to transit station or park and ride lot).	No	
Provides traveler information or is	No	

directly linked to an existing TMC network/ITS architecture.

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## Land Use and Transportation Coordination

<b>Land Use</b>	<b>Response</b>	<b>Additional Notes</b>
Does the project promote walkable/bicycle friendly, mixed-use development?	Yes	A paved shoulder will be provided for bicycle access. Crosswalks within refuge islands will be provided for pedestrian access between businesses and to the Hanging Rock Greenway.
Does the project promote in-fill development?	Yes	Better traffic flow, improved park and pool facilities and greater pedestrian and bicycle access will encourage additional development in this area.
Is there a locally/regionally adopted corridor/access management plan for the project area that addresses interparcel connectivity and exceeds VDOT's minimum spacing standards?	Yes	Route 419 Corridor Plan

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## Environment

<b>Environment</b>	<b>Response</b>	<b>Additional Notes</b>
Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required.	No	
Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	Yes	Pedestrian crosswalks within roundabout refuge islands will connect to businesses and to the Hanging Rock Greenway.
Project includes improvements to rail	No	

transit or passenger rail facilities.

Project includes improvements to an existing or proposed park-and-ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	Yes	The Unofficial Orange Market and Hanging Rock VDOT Park and Pool lots may be improved with modified entrances, bicycle racks and signage.
Project includes bus facility improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.*	No	
Project includes improvements to freight rail network or intermodal (truck to rail) facilities/ports/terminals.	No	
Project include special accommodations for hybrid or electric vehicles, or space or infrastructure for electric vehicle parking/charging).	No	
Project includes energy efficient infrastructure or fleets, including: hybrid or electric buses, LED lights and signals, electronic/open road tolling, alternative energy infrastructure (e.g., roadside solar panels).	No	

## Economic Development Factors

**Transportation project (consistency with Local Comprehensive Plan or Local Economic Development Strategy)**

Consistent with

**Transportation project (consistency with Regional Economic Development Strategy)**

Consistent with

<b>Site Name</b>	<b>Development project (consistent with locality Comprehensive Plan/Zoning)</b>	<b>Development project (site plan status)</b>
Allstate	Consistent with comp. plan future land use/zoning	Approved

<b>Development project (site utilities status)</b>	<b>Development project (proposed (or projected) building square footage)</b>	<b>Driving distance to development project from transportation project</b>	<b>Does Transportation Project Provide Direct Access or Indirect Access to the Development Site?</b>
In place	70,000 sq ft	0.4 miles	Enhances Access Near the Site But is Not Adjacent to the Site
<b>Site Name</b>	<b>Development project (consistent with locality Comprehensive Plan/Zoning)</b>		<b>Development project (site plan status)</b>
The Retreat	Consistent with comp. plan future land use/zoning		Approved
<b>Development project (site utilities status)</b>	<b>Development project (proposed (or projected) building square footage)</b>	<b>Driving distance to development project from transportation project</b>	<b>Does Transportation Project Provide Direct Access or Indirect Access to the Development Site?</b>
Programmed	337,740 sq ft	1.2 miles	Enhances Access Near the Site But is Not Adjacent to the Site

## Delivery/Funding

### Project Delivery Information

#### Project Planning Status

Other Regional Plan  
 Planning/Safety Study  
 State Transportation Plan

#### Project Administered By

VDOT

**Existing Project UPCs or Project Numbers**

**Project Delivery Method**

**Please indicate who will be/was responsible for the design of this project**

**VDOT :**

100%

**Locality:**

%

**Consultant:**

%

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## Phase Estimate and Schedule

### PE (Survey, Environmental, Design)

**Phase Milestone**

PE (Survey, Environmental, Design)

**Status**

Not Started

**Percent Complete**

0%

**Cost Estimate**

\$316,386.00

**Start Date**

08/01/2016

**End Date**

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### RW (Right of Way and Easement Acquisition, Utility Relocation)

**Phase Milestone**

RW (Right of Way and Easement Acquisition, Utility Relocation)

**Status**

Not Started

**Percent Complete**

0%

**Cost Estimate**

\$369,117.00

**Start Date**

09/04/2018

**End Date**

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### CN (Construction, Oversight, Inspection, Contingencies)

**Phase Milestone**

CN (Construction, Oversight, Inspection, Contingencies)

**Status**

Not Started

**Percent Complete**

0%

**Cost Estimate**

\$1,271,503.00

**Start Date**

11/30/2019

**End Date**

11/15/2020

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**Total Cost Estimate**

\$1,957,006.00



## Project Funding Sources

<b>SYIP Allocations</b>	<b>Other Committed Funding Amount</b>	<b>Other Requested Funding Amount</b>	<b>HB2 Amount Requested</b>	<b>Total Proposed Project Funding</b>
			\$1,957,006.00	\$1,957,006.00

## Supporting Documents

### Current Attachments

**Description**

Summary of local plans that show consistency with the proposed project.

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

consistency with local comprehensive plan.pdf

**Description**

Summary of regional plans that show consistency with the proposed project.

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

consistency with regional economic development strategy.pdf

**Description**

2005 Community Plan highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

2005 community plan.pdf

**Description**

Livable Roanoke Valley Plan highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

livable roanoke valley plan.pdf

**Description**

Regional Pedestrian Vision Plan highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

regional pedestrian vision plan.pdf

**Description**

Roanoke Valley Conceptual Greenway Plan highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

roanoke valley conceptual greenway plan.pdf

**Description**

Roanoke Valley Regional Comprehensive Economic Development Strategy highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

roanoke valley regional comprehensive economic development strategy.pdf

**Description**

419 Corridor Plan highlighted excerpts

**Attachment Type**

Local/Regional Economic Development Strategy

**File Name**

route 419 corridor plan.pdf

**Description**

Route 419 Corridor Plan 2010

**Attachment Type**

Access Management Plan or Zoning Overlay

**File Name**

419 plan roco excerpts 419-311 9-22-15.pdf

**Description**

Roanoke Valley MPO Bikeway Plan 2012

**Attachment Type**

Other

**File Name**

rvampo bikeway plan 2012 update roco excerpts 419-311 9-21-15.pdf

**Description**

Roanoke Valley Greenway Plan 2007

**Attachment Type**

Other

**File Name**

2007 update to the roanoke valley greenway plan roco excerpts hanging rock mason ck 9-22-15.pdf

**Description**

Virginia Outdoors Plan 2013

**Attachment Type**

Other

**File Name**

2013 virginia outdoors plan roanoke excerpts hanging rock mason ck 9-22-15.pdf

**Description**

Hanging Rock Battlefield Trail Map

**Attachment Type**

Other

**File Name**

hangingrockbattlefieldtrailrevised 09-23-15.pdf

**Description**

Ride Solutions Park & Ride Inventory

**Attachment Type**

Other

**File Name**

ride solutions park and ride study 2009 419 311 excerpts 9-24-15.pdf

**Description**

RVTPO Regional Pedestrian Vision Plan 2015

**Attachment Type**

Other

**File Name**

regional pedestrian vision plan roanoke county excerpts 419-311 9-21-15.pdf

**Description**

Design Plan

**Attachment Type**

Project Sketch

**File Name**

311\_419 intersection plan sheet.pdf

**Description**

Roanoke County Board of Supervisors resolution supporting HB2 projects

**Attachment Type**

Resolution of Support

**File Name**

09-22-#5-d-reso-resolution house bill 2 projects\_1.pdf

**Description**

Roanoke County Board of Supervisors Comprehensive Plan Amendment  
Designated Growth Areas

**Attachment Type**

Local Comprehensive Plan

**File Name**

designated growth areas - resolution - text amendment - map.pdf

**Description**

Allstate Site Plan

**Attachment Type**

Site Development Plan

**File Name**

allstate.pdf

**Description**

The Retreat Site Plan

**Attachment Type**

Site Development Plan

**File Name**

the retreat approved site plan.pdf

**Description**

The Retreat Approval Letter

**Attachment Type**

Site Development Plan

**File Name**

the retreat site plan approval letter.pdf

**Description**

The Retreat Programming

**Attachment Type**

Local Utilities Programming

**File Name**

the retreat preliminary swm agreement.pdf

**Description**

Allstate Approval Letter

**Attachment Type**

Site Development Plan

**File Name**

allstate approval letter.pdf

**Description**

Virginia Surface Transportation Plan 2035 UPDATE (2013) Excerpts

**Attachment Type**

Planning Study/Safety Study

**File Name**

2035 va surface trans plan excerpts 9-28-15.pdf

**Description**

Route 311 / Route 419 Int. Safety & Congestion Improvements Detailed Cost Estimate

**Attachment Type**

Detailed Cost Estimate

**File Name**

0080\_04 - rte 311 and 419 int - detailed estimate 2.xlsx

**Description**

Route 311 / Route 419 Int. Safety & Congestion Improvements PCES

**Attachment Type**

Detailed Cost Estimate

**File Name**

0080\_04 - rte 311 and 419 int - pces 2.xlsx

**Description**

STARS Congestion Mitigation Program Pilot Phase Route 311/Route 419 (2011) Excerpts

**Attachment Type**

Planning Study/Safety Study

**File Name**

stars study 311-419 scanned excerpt 9-30-15.pdf



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