American Society of Highway Engineers

Old Dominion Chapter Libbie Mill February 15, 2024

Joe Vidunas Traffic Engineer Hanover County Dept. of Public Works



QUICK FACTS:

- Population: 109,979 (2020)
- Land area: 474 sq. mi.
- Hwy System Mileage:
 - Interstate 23.07 mi.
 - Primary 85.98 mi.
 - Secondary 879.64 mi.
- Most notable historical figure: Patrick Henry "Give me liberty or give me death!"
- Most known for the heralded Hanover tomato
- 1 each of the following: hospital, amusement park, airport, train station, college, & a solar farm
- 3 retail outdoor sporting goods stores: Bass Pro Shops, Cabela's, Green Top
- 3 breweries: Center of the Universe Brewing Co., Origin Beer Lab, Intermission Beer Co.



How It Started

§33.2-1-2. Authority of cities and towns and certain counties in connection with federal aid

The cities and towns of the Commonwealth and also the counties that have withdrawn from the provisions of Chapter 415 of the Acts of Assembly of 1932, as amended, may comply fully with the provisions of the present or future federal-aid road acts, and to this end they may enter into all contracts or agreements with the United States government or the appropriate agencies thereof relating to the survey, construction, improvement, and maintenance of roads, streets, and highways under their control and may do all other things necessary to carry out fully the cooperation contemplated and provided for by the present or future acts of Congress relating to the construction, improvement, and maintenance of roads, streets, and highways.

Such localities may also cooperate with the Board in connection with any project for the survey, construction, improvement, or maintenance of any road, street, or highway under their jurisdiction and control that is eligible for federal aid under any present or future federal-aid road acts and may by appropriate agreement or contract authorize the Board to act on their behalf in any dealings necessary with the United States or any agency thereof and may authorize the Board to carry out such survey, construction, improvement, or maintenance work on such projects either with or without participation by the locality. Whenever the Board is given such authority by any such locality, it may do all things contemplated and provided for by present or future federal-aid road acts and the agreements made with such locality.

Central Virginia Transportation Authority



10-year Road Funding Plan

															Notes
	Planned Appropriations								$\overline{}$			Totals	Balance to Complete		
			-	\neg	T	T	FY 28	FY 29	FY 30	FY 81	FY 32	FY 88			FY 27/28 Rev. Sh. App. Pending
	Estimated Cost		vious priations FY 2	FY 26	FY 28	FY 27	FY 28			s .	s -	\$ -	\$ 5,000,00	10	17 21/40 nov. 30 747
	Current Phase	Appro		. \$ 1,500	200 \$ 3,000,0	000 S 500,0	\$	s s	. 5	s -	s ·	\$ -	\$ 7,650,2 \$ 10,878,8		
	Ad Date PE \$ 2,011,000 CVTA	A (Local) \$	- \$ - \$. \$	980 \$ 415,4		- \$. s		. \$	s -	\$.	\$ 200,0		
Name(s) ATLEE STATION RD (PH. 2) 0637-042	CON \$ 27,106,000 Prof	Fund \$	6,004,782 \$	714,980 \$ 514 \$ 2,500		000 \$ 4,376 - \$	- \$. \$. \$		- \$ - \$	\$ -	5 .	\$ 10,000,0	-	
et # 0637-042 # 115195 wipelon WIDEN FROM 2 TO 4 LANES	Total \$	P/STBG \$	- \$ - \$		0,000 \$. \$ 1,900	398 \$. \$. \$	- 5	- \$ - \$	s :	\$	\$ \$3,729	078 \$ (1,924)	075
WARREN AVE GNGS CHARTER DR	SSY	Share \$	5,000,000 \$	3,096,602 \$	- \$ - \$. 5 . 5	. 5	- \$ - \$. \$. \$	- \$	\$	\$:	1
	DOES IMMINARY ENGINEERING OF	her \$	11,004,782 \$	3,811,582 \$ 4,7	14,980 \$ 7,415	5,497 \$ 6,78	- 5	- \$ - \$. 5	- \$ - \$	- \$ - \$	\$	- \$ - \$:	
CAPACITY 1,35 MI	4/30/2027 TO PE \$ 700,000 CV	/TA (Local) \$ en, Fund \$. s	- 5	- \$ - \$. 5	- \$ - \$	- s		- \$ - \$. 5	. \$. \$	- \$ - \$:	
2.35 Mi ad Name(1) RT. 501 / RT. 54 oject # N/A	CON \$ 2,920,000 Pr	roffers \$. s	. \$	- \$ - \$. \$	- s	- \$	- \$ - \$	- \$ - \$. s	- \$ - \$		
N/A RC# ROUNDABOUT	Total \$ 4,470,000 in	MAQ \$. \$	- s	. 5	. s	. s	. \$	- \$ - \$. \$. \$	- \$ 4,50	54,642 \$4,642 \$ (6 99,000	Submitted for SMART SCALE find 5; was not selected.
om o	1 1	tev. Share \$ SMART SCALE \$	- \$	\$ 4,534,642 \$	- \$ 10,000 \$. \$	- s	- \$. \$	- \$	- \$	- \$ - \$	- \$ 7A		FY 27 /28 Rev. Sh. App. Pending
1	BEGIN PE - FY 24	Other - CVTA (Reg.) \$ TOTAL \$. \$	4,524,642 \$ 1,253,000 \$	10,000 \$ 876,000 \$ 1,5	500,000 \$ 1,	500,000 \$ 2, - \$	570,000 \$. 5	- \$	- \$	- \$ - \$	- \$:	
Type OPERATIONAL EFFICIENCY / SAFETY N/A N/A GREENWOOD CHURCH / BLANTON / ASHLA	4.352.000	CVTA (Local) \$ Gen. Fund \$. \$	- \$ - \$		- \$ - \$	- \$. \$	- \$. \$	- \$ - \$. \$	750,000	
Road Name(s) GREENWOOD CHURCH / BLANTON / ASHCAKE RDS Project # N/A ASHCAKE RDS	CON \$ 5,370,000	Proffers \$ RSTP/STBG \$	- s	- s	- \$. \$	- \$ - \$. 5	- \$	- 5	- \$ - \$	- \$		
UPC # N/A Description ROUNDABOUT	Total \$ 7,499,000	CMAQ \$	i i	- \$	- \$ - \$. \$	3,750,000 \$	- s	- \$	- \$. \$	- \$,249,000 \$ (3, 0,052,000	(750,000) Submitted for SMART SCALE Rnd 5; was not selected. FY 27/28 Rev. Sh. App. Pending
from To		Rev. Share SMART SCALE		- \$	- \$ - \$	1.500,000 \$	5,250,000 \$	2,570,000 \$. \$	- \$	- \$	- \$ - \$. \$	372,000	8Y 27/25 Eev. St. App. 1
DYSE OPERATIONAL EFFICIENCY / SAFETY	BEGIN PE - FY 24 TBD	Other TOTAL	. \$	1,253,000 \$ 681,000 \$	876,000		2,888,000	- \$	- \$ - \$. \$	- \$. s	- \$		1
N/A	PE \$ 1,053,000	CVTA (Local) Gen. Fund	\$	- \$ 572,000 \$. \$	- \$. s	- \$	- \$ - \$	- \$	- \$	- \$ - \$	- \$	2,467,372	1
Road Name(s) Project # N/A	rw \$ 483,000 CON \$ 3,888,000 Total \$ 5,424,00	Proffers RSTP/STBG	\$	- s	. \$. s	. \$. \$. \$. \$. \$	- \$	- \$ - \$. 5	- \$		
UPC # N/A Description LTL AT GODDINS HILL RD	1000 9	CMAQ SSYP	s - s	. s	- \$	- s	2,467,372 \$	- s	. \$. \$. s	- \$		24,795,770	(2,467,372) Submitted for TPO funding fall 2022; was not selected. BY 27/28 Rev. Sh. App. (Tier 1) Pending
From To		Rev. Share SMART SCALE	\$	- \$ - \$	483,000 \$	1,000,000 \$	5,355,372 \$	3,620,770 \$	5,500,000 \$	5,675,000 \$. \$. \$	- \$. s	17,575	
Type OPERATIONAL EFFICIENCY / SAFETY	BEGIN PE - FY 24 TBD	Other TOTAL	\$. §	1,053,000 \$	4,120,770 \$	4,000,000 \$	1,879,230 \$. \$	- 5	. 5	- s	. \$. \$:	1
Length N/A	PE \$ 2,286,0 RW \$ 6,081,0	000 Gen. Fund	\$ 17,575	- \$. \$	- \$ - \$. 5	. s	- \$. \$	- \$ - \$. \$	- \$	10,000,000	
Project # 0637-042	CON \$ 24,548,0 Total \$ 32,915,0	000 RSTP/STBG	\$.		- \$ - \$	- s	. 5	- \$. 5	. 5	- s	. 5	- \$		(1,898,345)
Description WIDEN FROM 2 TO 4 LANES		CMAQ SSYP Rev. Share	\$ -	5 . 5	4,120,770 \$	4,000,000 \$	1,879,230 \$	- \$ - \$	5,500,000 \$	5,675,000 \$	- \$. \$	- \$	34,813,345 \$ 4,217,000	V/C = 1.250; 14,496 ADT
To SLIDING HILL		SMART SCALE	\$.	s . s	8,241,540 \$	8,000,000 \$	3,758,460 \$ 534,000 \$	3,620,770 \$ 2,796,000 \$	- \$	- \$	- s	. \$	- \$:	capacity (widening) improvments. Submitted for SMART SCALE Rnd 5; was not selected.
Type	BEGIN PE - FY 25 TBD	TOTAL	\$ 17,575	\$	443,500 \$	443,500 \$	- \$	- \$. 5	- \$ - \$. \$	- \$ - \$	- \$		Submitted for SMART SCALE and 3, 444
Length 1.50 MI Road Name(s) CREIGHTON RD	/E 5	4,000 Gen. Fund	\$.	\$	- \$	- \$	- \$ - \$	- s		- \$ - \$. \$	- \$ - \$	- \$		
Project # N/A	4.21	05,000 Proffers 17,000 RSTP/STBG CMAQ	\$ - \$ -	\$	- \$ - \$		- \$ - \$	- \$	- \$	- \$		- 5	- \$	4,217,000 \$	Submitted for TPO funding fell 2022; was not selected.
UPC # N/A Description LTLs AT TAMMY LN & SLEDOS LAKE From		SSYP Rev. Share	\$ -	s - s	- \$. \$. \$. s	. \$. \$. \$	- \$	1,822,000	Submitted for TPO funding
То	BEGIN PE - FY 25	SMART SCALE	\$.	\$. 5	443,500 \$	443,500 \$ 313,000 \$	534,000 \$ 957,000 \$	2,795,000 \$	- \$	- \$	- 5	- \$	- \$:	
Type OPERATIONAL EFFICIENCY / SAFET	TBD	TOTAL 552,000 CVTA (Local)	\$ -	5 -	\$ 582,000 \$. \$	- s	- 3		- \$. 5	- \$ - \$	- \$:	
Road Name(s) ATLEE RD / MECHANICSVILLE ELE	SCHOOL AW \$	313,000 Gen. Fund 957,000 Proffers	\$	\$ -	\$ - \$ \$ - \$	-			5 - 5	- \$	- \$	- s	- 5	:	
Project # N/A UPC # N/A		,822,000 RSTP/STBG CMAQ	s s	s -	s - 5		s -		s -	s - 5	. \$	- s	- 1	1,822,000 \$	
from		SSYP Itev. Share	\$	\$.	s -		\$ - \$ -	s .	\$.	\$ - \$ \$ - \$. \$. \$			
То	BEGIN PE - FY	SMART SCALE Other	\$	s .	\$ 552,000	\$ 313,000	\$ 957,000	\$		•					
	BEGIN PE - FT	TOTAL	\$												



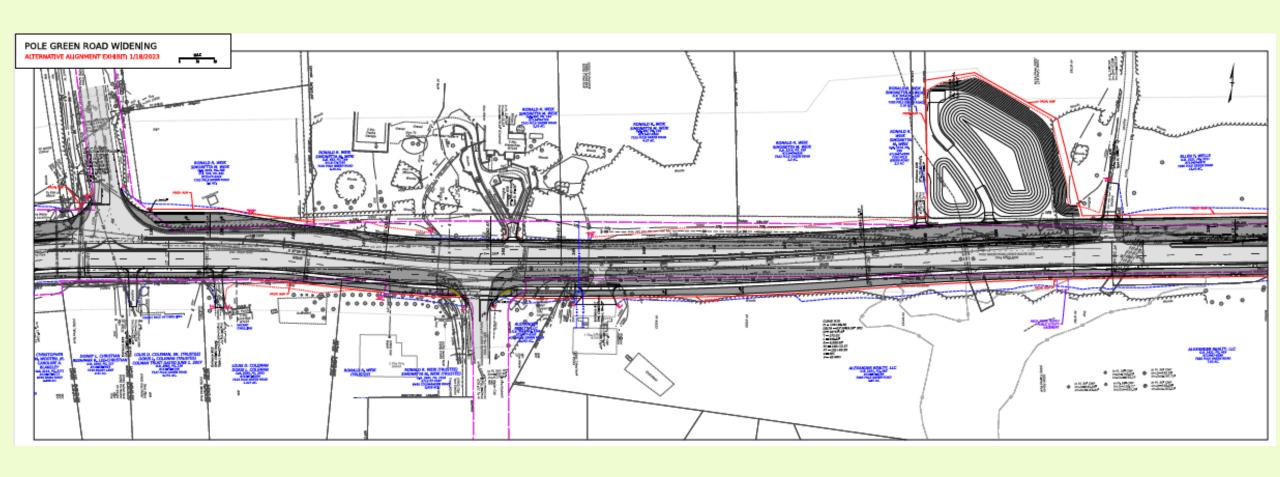
Current Project Portfolio

Rt. 360/Lee Davis Rd Widening UPC 13551



Pole Green Rd (Widening)

Right-of-Way Authorization Pending



Atlee Station Rd (Widening) – Ph. 2

Design Phase



Rt. 1 & Rt. 30 (Turn Lanes & Traffic Signal)

Right-of-Way Phase Pending



INITIAL DESIGN

WASHINGTON HIGH

₹N 14°03′ 42° E

CURRENT DESIGN

Lewistown Rd / Ashcake Rd (Intersection Improvement)

Right-of-Way Phase Pending

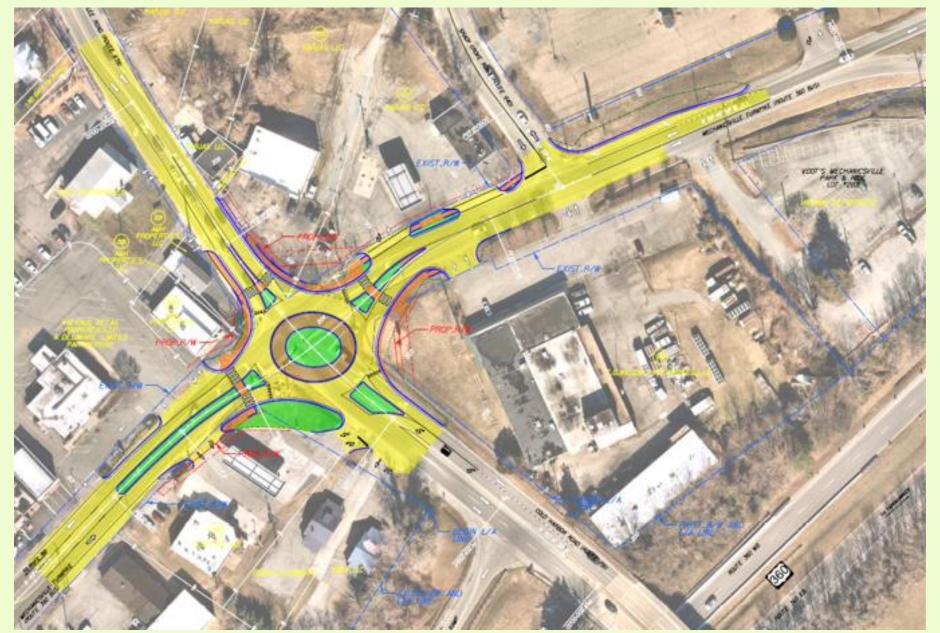


U.S. Route 301 (3rd Southbound Lane)

Pre-Construction Phase

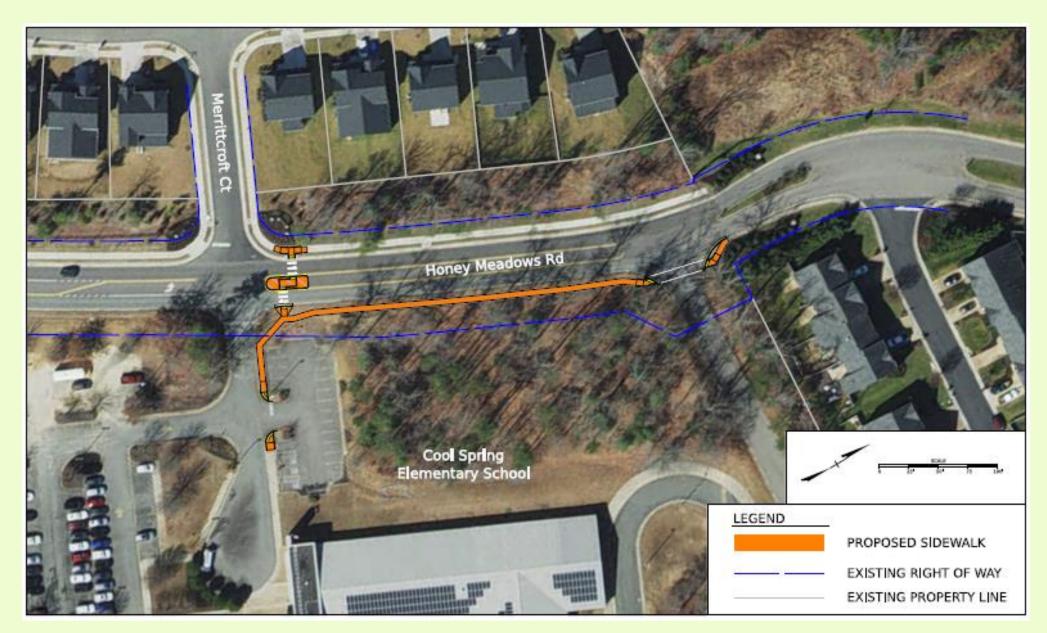


Atlee Rd / Bus. Rt. 360 / Cold Harbor Rd (Intersection Improvement)
Design Phase



Cool Spring Elementary School (Sidewalk Improvement)

Advertisement Phase



Trench Widening & Paving - Rural Roads Safety Improvement

From

Chamberalyne Rd

Rocketts Mill Rd

Old Church Rd

McClellan Rd

Rockhill Rd

Cedar Ln

Pole Green Rd

Fox Hunter Ln

Rockhill Rd

Market Rd

Route 1

Mountain Rd

Cost

873,000

1,713,000

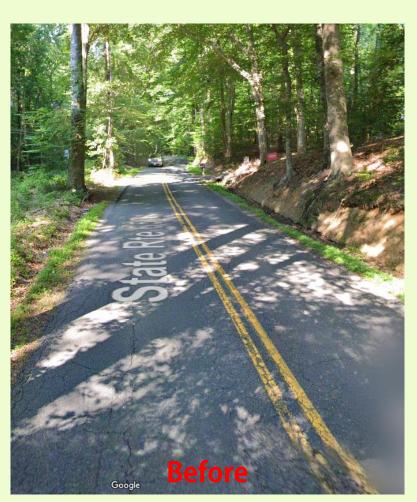
1,847,000

145,000

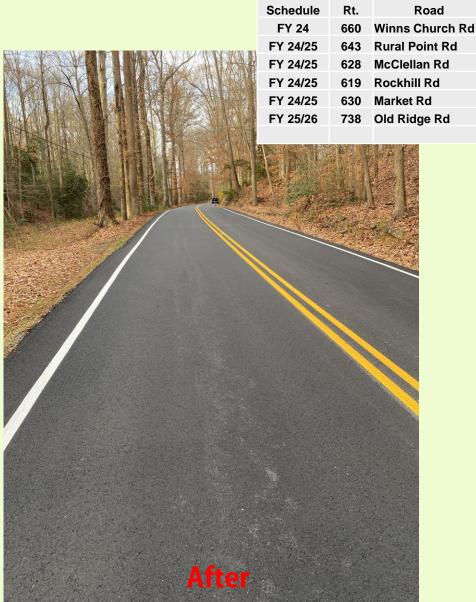
616,000

1,742,000

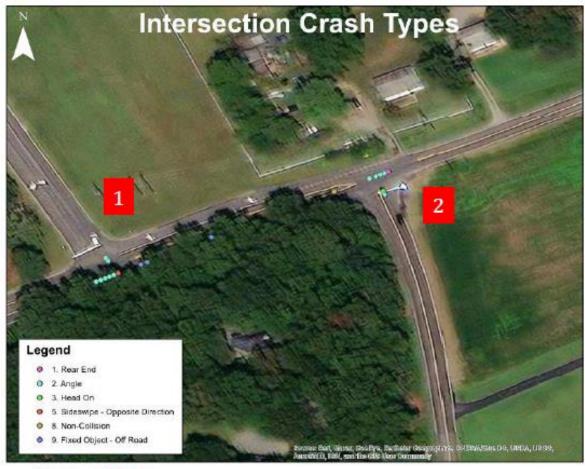
6,936,000







Creighton Rd/Pkwy & Walnut Grove Rd – Roundabout Design Phase



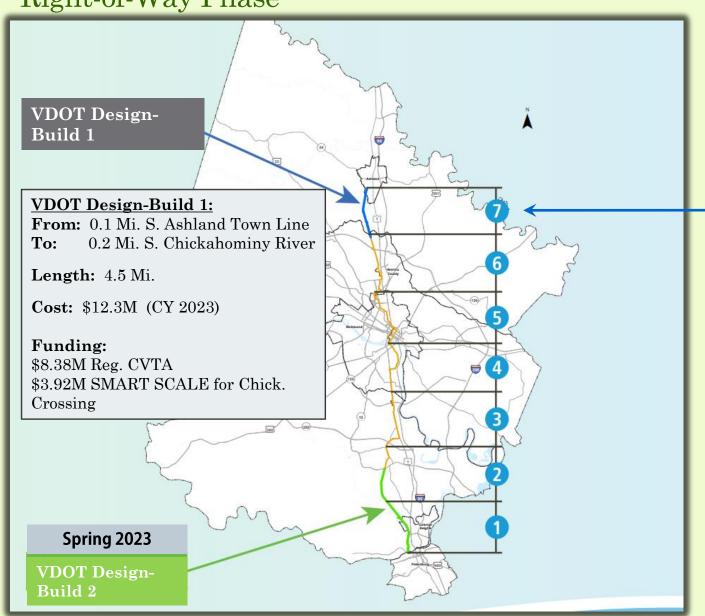
- Walnut Grove Road at Creighton Parkway (Intersection 1)
 - Total crashes: 16
 - · Angle crashes: 14
- Between intersections: 2
- Walnut Grove Road at Creighton Road (Intersection 2)
 - · Total crashes: 11
 - · Angle crashes: 8
- Angle crashes (76%)
- Intersection spacing concerns

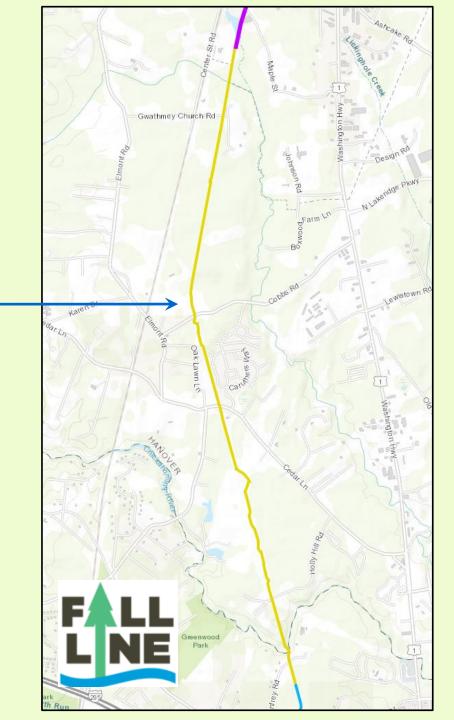
Creighton Rd/Pkwy & Walnut Grove Rd – Roundabout Design Phase



Fall Line Trail (Hanover/Henrico)

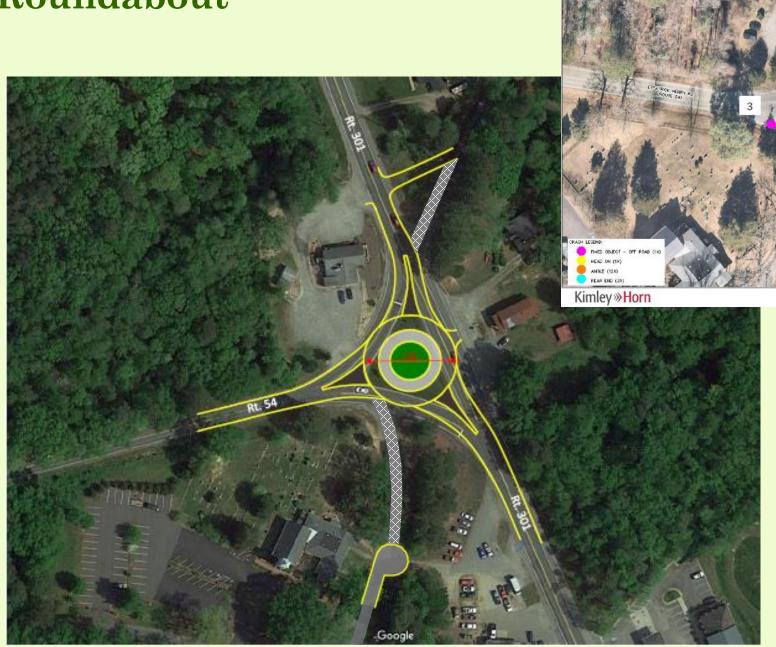
Right-of-Way Phase





Rt. 301/54 – Roundabout

Design Phase



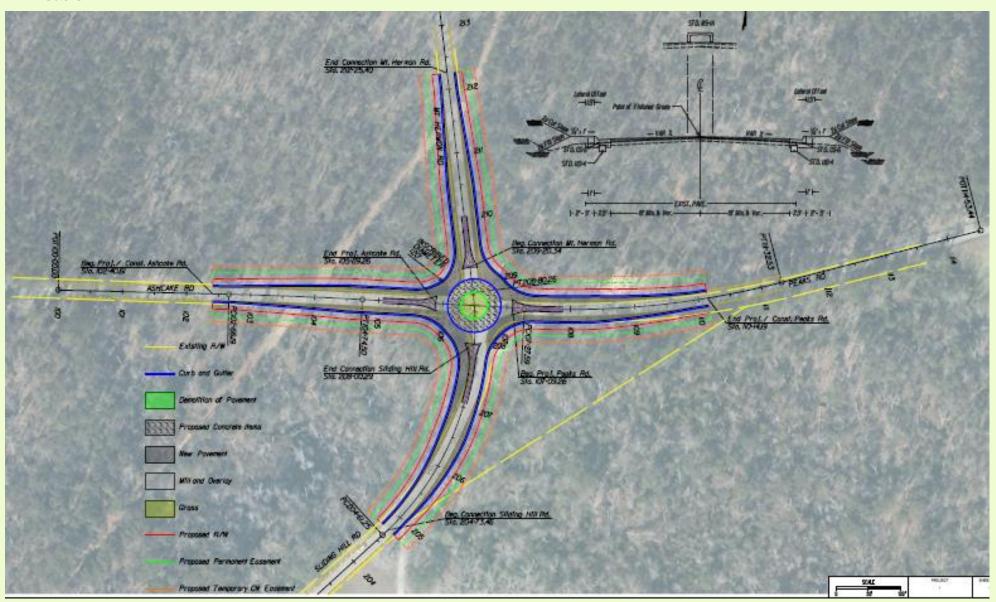
Ashland Rd / Ashcake Rd / Greenwood Rd / Blanton Rd

Pre-Design Phase



Sliding Hill Rd / Peaks Rd / Ashcake Rd / Mt. Hermon Rd

Design Phase



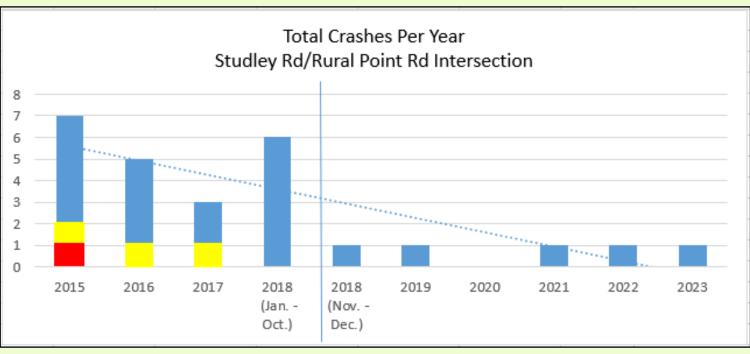
Summary

- 2001 to 2023 ~\$317M*
- Current projects \$165M









Come join our team!

Capital Project Specialist

(\$57,152 - \$97,158)

https://www.hanovercounty.gov/317/Human-Resources



VDOT Richmond District Locality of the Year (2022)