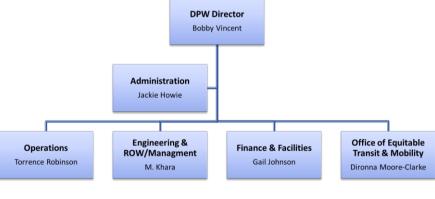


Leadership Team, Mission, Vision, Overview













Bridge Maintenance

CIP Engineering



Roadway Maintenance





Right of Way Manager

Solid Waste

Urban Forestry



MISSION

To become the organizational leader in customer satisfaction by improving communication, assuring organizational alignment and affecting positive change while preserving our national accreditation

To provide a clean, safe and healthy environment



Paving Infrastructure



Street Cleaning



Grounds Maintenance

OPERATING DIVISIONS

Bridge Maintenance
Capital Projects/Engineering
Office of Equitable Transit & Mobility
Facilities Management
Grounds Maintenance
Paving Infrastructure
Right of Way Management
Roadway Maintenance

Solid Waste Management Street Cleaning Street Lighting Traffic Engineering Urban Forestry



Facilities Management Traffic Engineering







OETM

Street Lights



RVA Statistics and General Public Information

Geographical Size:

City Population:

Metropolitan Area Population:

Lane Miles of Roads:

Miles of Sidewalks:

Miles of Alleys:

Tree sites within Public ROW:

Bridges and Structures:

Streetlights:

Signals & Flashers

Bike Lanes:

62.5 square miles

231,782 (Ranked 100th) worldpopulationreview.com

1,314,434 (Ranked 44th) 2020 Census

1,835 lane miles (2,626 w/parking & turning lanes)
879 lane miles

WEST END
INVEST END
I

210 miles

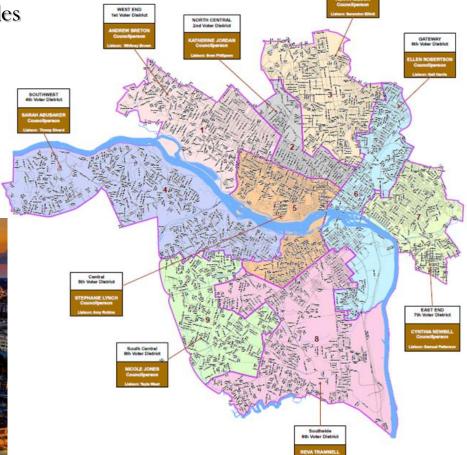
120,000

84

42,780

521

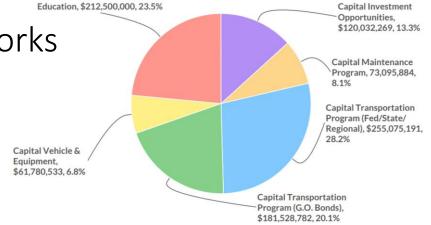
70.7 miles







Budget and Fiscal Overview



Budget Summary	FY 2022 Actual	FY 2023 Actual	FY 2024 Adopted	FY 2025 Adopted
Personnel Services	\$12,898,675	\$12,997,891	\$15,385,873	\$15,272,113
Operating	33,708,209	36,240,454	33,538,531	35,879,661
Total General Fund	\$46,606,884	\$49,238,345	\$48,924,404	\$51,151,774
Special Fund	55,280,467	54,717,378	56,097,568	61,079,031
Internal Service Fund	16,461,217	17,929,402	19,954,575	-
Parking Enterprise Fund	10,517,292	14,256,960	17,000,000	-
Capital Improvement Plan	49,049,485	84,752,293	101,806,909	118,133,593
Total Summary	\$177,915,345	\$220,894,378	\$243,783,456	\$230,364,398
Per Capita	\$776.67	\$974.72	\$1,074.09	\$1,005.80
General Fund Staffing	238.60	151.33	190.43	181.93
Other Funds Staffing	314.60	231.82	271.57	235.07
*Total Staffing	553.20	383.15	462.00	417.00

Department of Public Works Transportation Fiscal Forecast

Engineering, Planning and Operations







DEPARTMENT OF

PUBLIC WORKS

Category	FY25	FY26	FY27	FY28	FY29	Total
State Maintenance	\$ 38,000,000	\$ 38,000,000	\$ 38,000,000	\$ 38,000,000	\$ 38,000,000	\$ 190,000,000
CVTA Local	\$ 18,800,000	\$ 18,800,000	\$ 18,800,000	\$ 18,800,000	\$ 18,800,000	\$ 94,000,000
CVTA Regional						\$ 105,896,993
Federal / State	\$ 38,863,427	\$ 71,367,971	\$ 40,455,951	\$ 51,709,828	\$ 52,678,014	\$ 255,075,191
GO Bond	\$ 38,417,782	\$ 30,742,000	\$ 27,370,000	\$ 27,970,000	\$ 32,029,000	\$ 156,528,782
VDOT Work	\$ 22,906,000	\$ 22,725,000	\$ 10,800,000	\$ 20,070,000	\$ 6,728,000	\$ 83,229,000
Previous SYIP Allocations						\$ 280,414,000
Totals	\$ 156,987,209	\$ 181,634,971	\$ 135,425,951	\$ 156,549,828	\$ 148,235,014	\$ 1,165,143,966







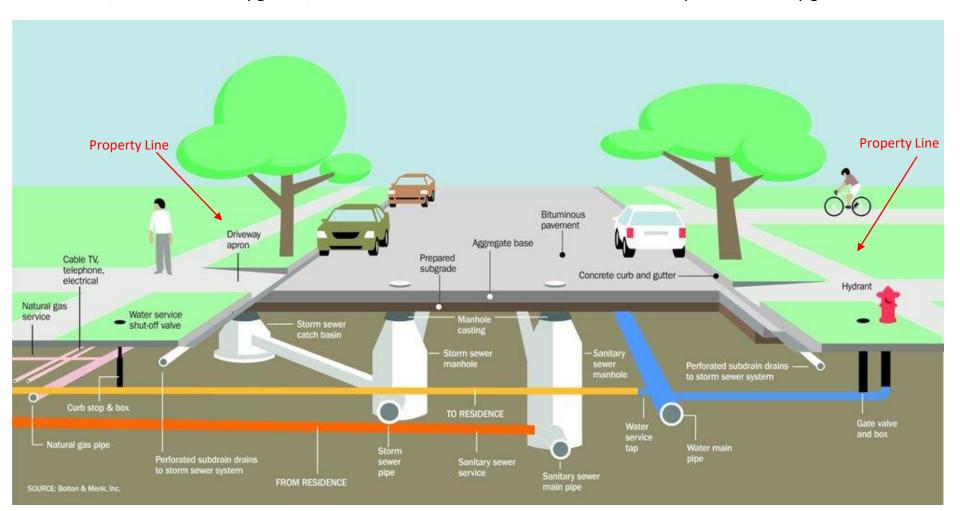


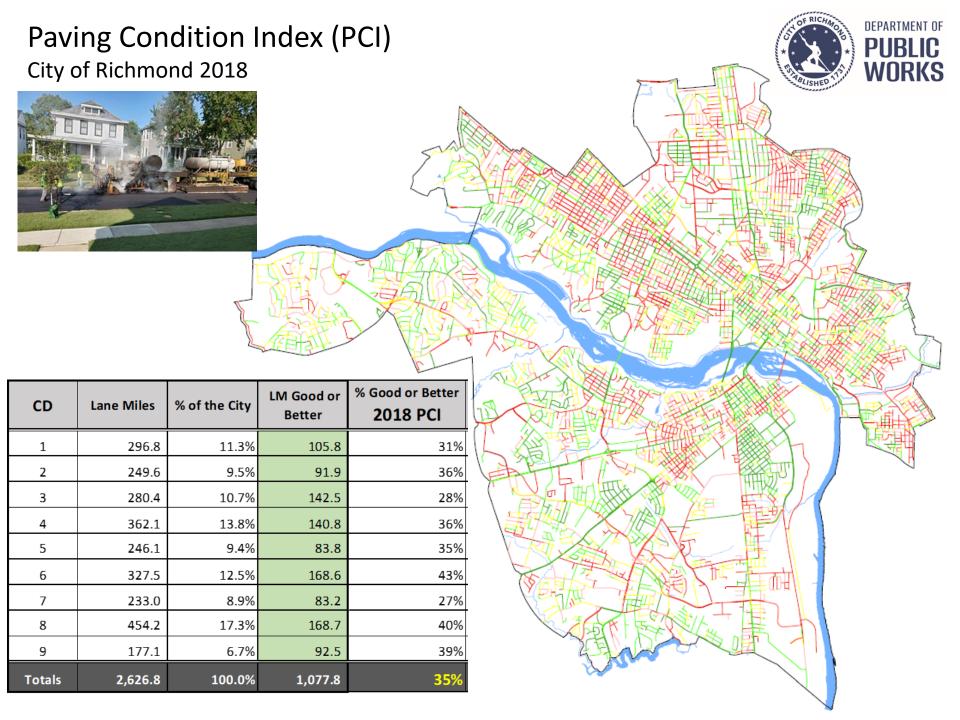
City of Richmond's Public Right of Way

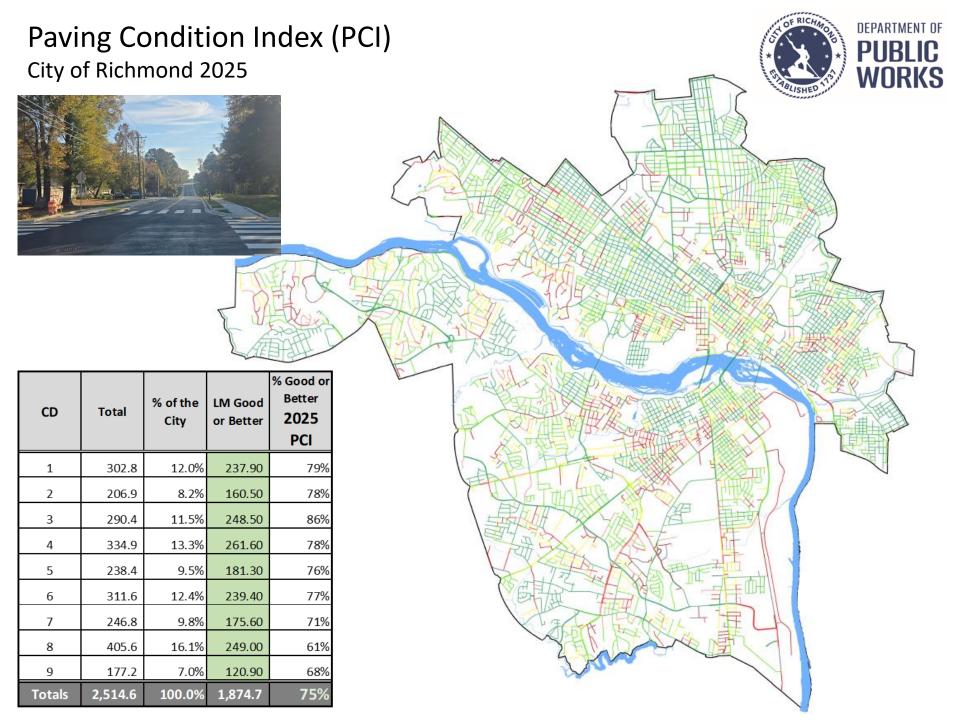
Typical Street Layout w/in an Urban Area



When paving occurs, milling & overlay projects average 2" in depth. In the City of Richmond streets, even on local streets, there are several utilities that run underground within the public right of way. The main line pipes and conduits run at depths from 4' (48") to 20'+ (240"). Each main line has laterals at various depths to each property. Due to excavations, cavitations and upgrades, the earth around each of these can become compromised at any given time.







Major Construction Projects Briefing

Milling and Overlay Projects

- This process is a road construction and maintenance technique that involves removing the top 1-2 inches of asphalt and replacing it with a new layer.
 - Typically occurs on Arterial and Collector Streets
 - Estimated Cost \$19 23 per square yard (20% increase from FY24)
 - Life expectancy of 7-10 years

Heat Scarification and Slurry Projects

- Heat scarification is a process that uses heat to soften and remove the top layer of asphalt pavement, then remixes the material with a rejuvenating agent and reapply it to the roadway surface.
- Slurry Seal Program after the heat scarification process, the street surface, albeit smooth, is left porous. Therefore, it is typically followed by an emulsified asphalt slurry application to seal and prolong the life of the surface.
 - Typically occurs on Collector and Neighborhood Streets
 - Estimated Cost \$10 12 per square yard (20% increase from FY24)
 - Life expectancy of 7 years

<u>Annual Budget and Accomplishments – 30-40 areas annually</u>

- The program averages nearly 200 lane miles per year
- Consist of Paving, Bike Lanes, Speed Tables, and Striping
- These programs are typically funded accordingly
 - \$5,000,000 CVTA
 - \$10,000,000 GO Bonds CIP
 - \$5,000,000 Public Utilities (final restoration)
 - \$1,500,000 State of Good Repair (VDOT)



Milling and Overlay Operation



Heat Scarification Operation



Completed Slurry Seal Application

Paving Program FY2026

FY2025 & FY2026 Comparison



CD	Project Description	SY	MLM	Uı	nit Cost	Total
1	Cary Street Road	48,148.0	7.5	\$	21.00	\$ 1,011,108.00
1	River Road	16,103.1	2.5	\$	21.00	\$ 338,165.33
1	Thompson Street	4,321.8	0.7	\$	21.00	\$ 90,757.33
1	Westmoreland Place	28,480.3	4.4	\$	18.25	\$ 519,766.02
2	Berrington Ct	1,550.0	0.2	\$	21.00	\$ 32,550.00
2	Floyd Ave	1,163.6	0.2	\$	21.00	\$ 24,434.67
3			-	\$	11.00	\$ -
4	Pineway Dr	3,676.4	0.6	\$	21.00	\$ 77,205.33
4	Riverside Dr	3,496.0	0.5	\$	21.00	\$ 73,416.00
4	Southampton Area	34,353.1	5.3	\$	11.00	\$ 377,884.21
4	Westlake Hills	26,074.2	4.0	\$	18.25	\$ 475,854.52
5	Woodland Heights	16,848.2	2.6	\$	18.25	\$ 307,480.02
5	Swansboro Area	27,302.1	4.2	\$	11.00	\$ 300,323.21
6	8th St	15,585.8	2.4	\$	24.50	\$ 381,851.56
6	Commerce Rd	126,835.6	19.7	\$	24.50	\$ 3,107,471.11
6	N 11th St	4,560.1	0.7	\$	21.00	\$ 95,762.33
7	Chimborazo Area	60,344.4	9.4	\$	18.25	\$ 1,101,286.03
7	Church Hill North	49,352.4	7.6	\$	18.25	\$ 900,682.03
7	E Marshall st	10,509.1	1.6	\$	24.50	\$ 257,473.22
7	E Richmond Rd	12,083.3	1.9	\$	21.00	\$ 253,750.00
7	N 28th St	1,415.7	0.2	\$	24.50	\$ 34,683.83
7	N 31st St	28,424.0	4.4	\$	24.50	\$ 696,388.00
7	U Street	2,331.0	0.4	\$	24.50	\$ 57,109.50
8	Walmsley Area	36,649.1	5.7	\$	11.00	\$ 403,140.21
9	South Garden Area	64,872.1	10.1	\$	11.00	\$ 713,593.21
6&8	Bellemead RD	28,603.3	4.4	\$	24.50	\$ 700,781.67
	Totals	653,082.9	101.2			\$ 12,332,917.34

FY2026 Paving Program										
CD	SY	LM	Cost	%	PCI					
1	97,053.2	15.0	1,959,796.7	14.9%	73%					
2	2,713.6	0.4	56,984.7	0.4%	78%					
3	-	-	-	0.0%	85%					
4	67,599.8	10.5	1,004,360.1	10.4%	66%					
5	44,150.3	6.8	607,803.2	6.8%	70%					
6	161,283.1	25.0	3,935,475.8	24.7%	77%					
7	164,460.0	25.5	3,301,372.6	25.2%	72%					
8	50,950.8	7.9	753,531.0	7.8%	58%					
9	64,872.1	10.1	713,593.2	9.9%	69%					
Total	653,082.9	101.2	\$ 12,332,917.34	100.0%						

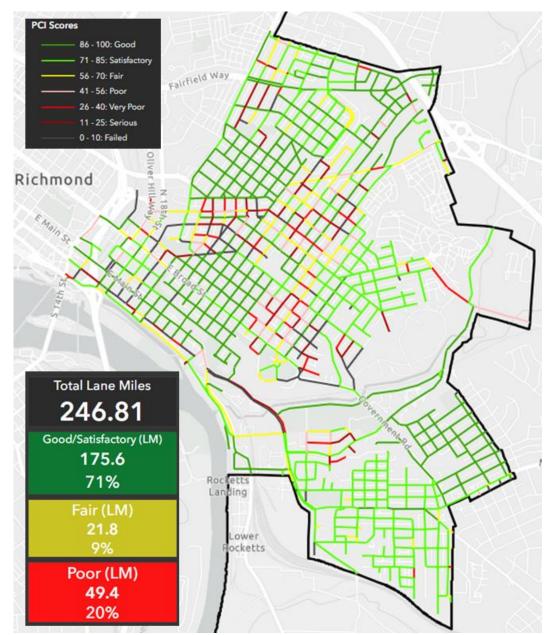
FY2025 Paving Program										
CD	SY	LM		Cost	%	PCI				
1	192,056.1	29.8	\$	2,528,201.39	16.0%	73%				
2	52,029.1	8.1	\$	690,783.89	4.3%	78%				
3	121,804.9	18.9	\$	1,441,016.59	10.1%	85%				
4	152,295.4	23.6	\$	1,725,723.45	12.7%	66%				
5	61,052.6	9.5	\$	763,158.34	5.1%	70%				
6	39,023.3	6.0	\$	663,396.67	3.2%	77%				
7	168,341.8	26.1	\$	2,485,058.95	14.0%	72%				
8	376,521.3	58.3	\$	5,537,526.00	31.4%	58%				
9	37,667.0	5.8	\$	753,932.58	3.1%	69%				
Total	1,200,791.5	186.1	\$	16,588,797.86	100.0%					

- Hull Street Road
- Richmond Hwy
- South Garden Area
- N. Barton Heights
- Oregon Hill Area

- Westbrook Avenue
- Union Hill Area
- 18th St/Oliver Hill Way

Pavement Condition Rating (PCI)

7th District - City of Richmond





	FY2024 Paving Program										
CD	SY	LM	Cost	% LM							
1	227,836.0	35.3	2,692,713.7	19.7%							
2	87,363.0	13.5	1,266,868.1	7.6%							
3	76,637.0	11.9	1,166,717.6	6.6%							
4	376,096.0	58.3	3,949,804.6	32.5%							
5	76,059.5	11.8	914,235.2	6.6%							
6	36,633.0	5.7	457,660.4	3.2%							
7	86,783.0	13.4	1,165,405.2	7.5%							
8	91,555.5	14.2	1,451,513.9	7.9%							
9	97,215.0	15.1	1,168,139.8	8.4%							
Total	1,156,178.0	179.2	\$ 14,233,058.44	100.0%							

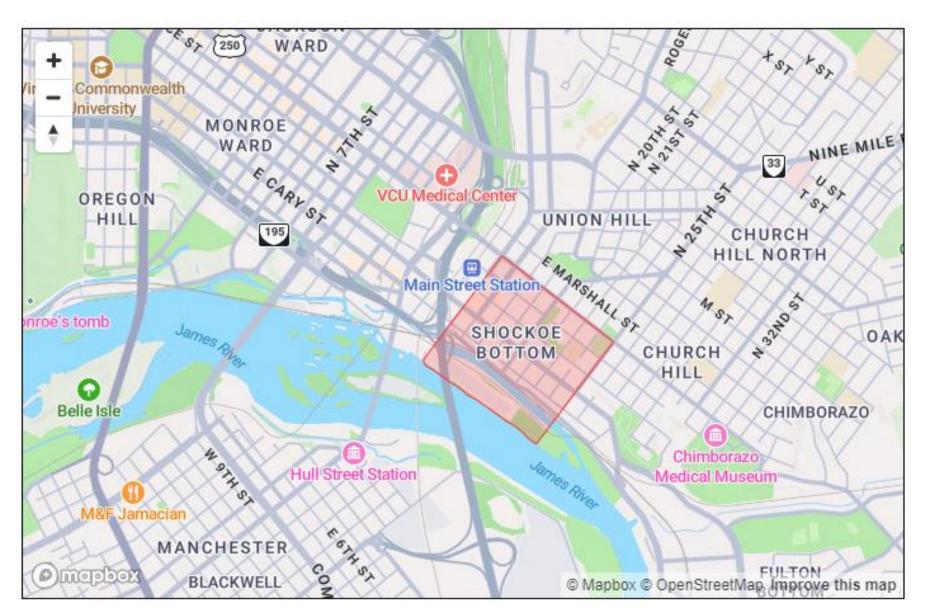
	FY2023 Paving Program										
CD	SY	LM		Cost	%						
1	144,943.3	22.5	\$	1,436,367.00	10.3%						
2	206,506.6	32.0	\$	2,187,264.00	14.6%						
3	249,691.0	38.7	\$	3,102,987.00	17.7%						
4	125,240.9	19.4	\$	1,531,100.00	8.9%						
5	72,325.7	11.2	\$	672,628.00	5.1%						
6	81,276.6	12.6	\$	755,872.00	5.8%						
7	254,854.3	39.5	\$	2,591,525.00	18.1%						
8	111,406.0	17.3	\$	1,276,536.00	7.9%						
9	163,894.0	25.4	\$	1,976,919.00	11.6%						
Total	1,410,138.4	218.5	\$	15,531,198.00	100.0%						

FY2022 Paving Program									
CD	SY	LM		Cost	%				
1	149,442.5	23.2	\$	2,172,637.50	11.8%				
2	88,942.5	13.8	\$	1,310,512.50	7.0%				
3	133,000.0	20.6	\$	2,030,740.00	10.5%				
4	183,420.0	28.4	\$	1,547,703.60	14.5%				
5	29,502.0	4.6	\$	339,273.00	2.3%				
6	233,600.5	36.2	\$	2,427,973.74	18.5%				
7	179,282.0	27.8	\$	2,653,583.42	14.2%				
8	110,608.0	17.1	\$	1,423,164.00	8.8%				
9	156,100.0	24.2	\$	1,689,825.00	12.4%				
Total	1,263,897.5	195.9	\$	15,595,412.76	100.0%				
				·					



1742

Richmond is incorporated as a city 0.23 SQUARE MILES



1867

Richmond annexed Lower Fan, Oregon Hill, Belle Isle, Church Hill, Union Hill

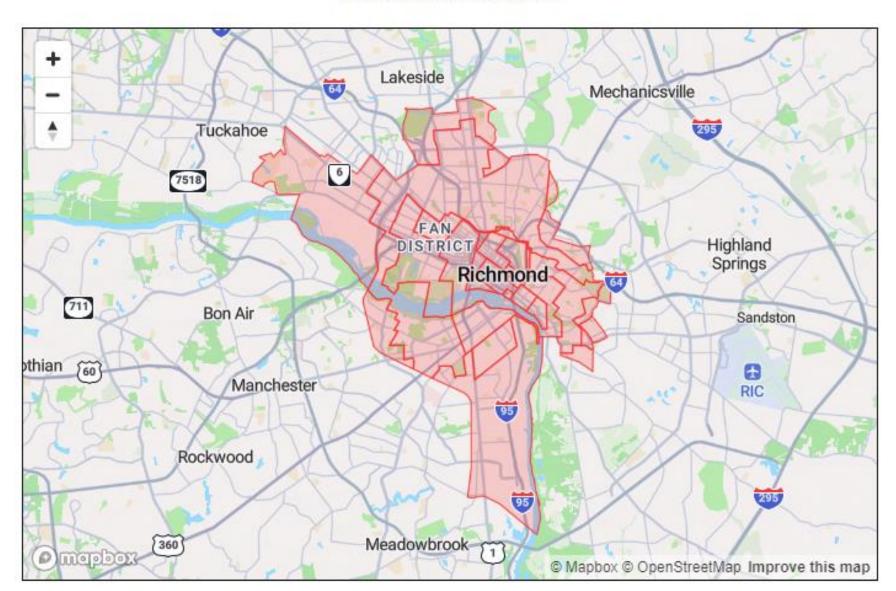
3 SQUARE MILES ADDED



1942

Richmond annexed Westover Hills, Windsor Farms, Bryan Park, Edgewood, Mechanicsville Tpke, Port of
Richmond

17 SQUARE MILES ADDED



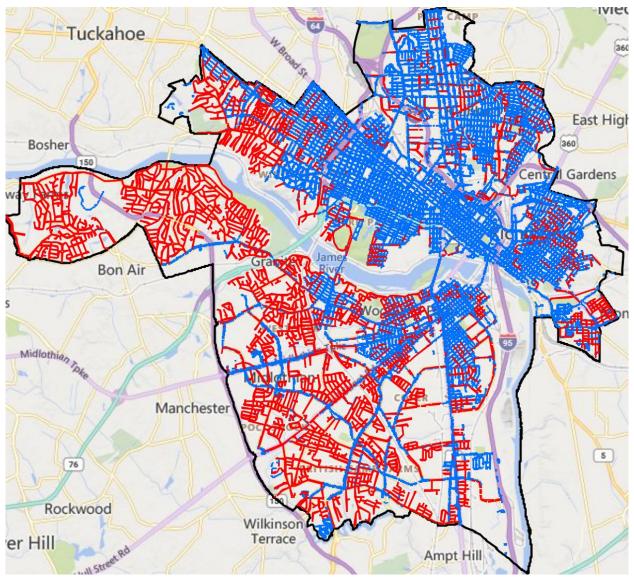
Sidewalk CIP and Maintenance

Existing Sidewalks **BLUE**, Missing Sidewalks **RED**





Council District	% of the City	Lane Miles per District
1	13.8%	104.673
2	11.9%	90.220
3	13.9%	105.454
4	3.8%	28.969
5	13.6%	103.476
6	15.7%	119.226
7	15.3%	116.554
8	9.2%	69.909
9	3.0%	22.479
Total LM		760.960



Sidewalk Maintenance

Sidewalk Maintenance Request and Completions 2017-2024

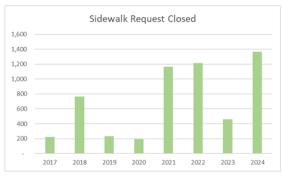


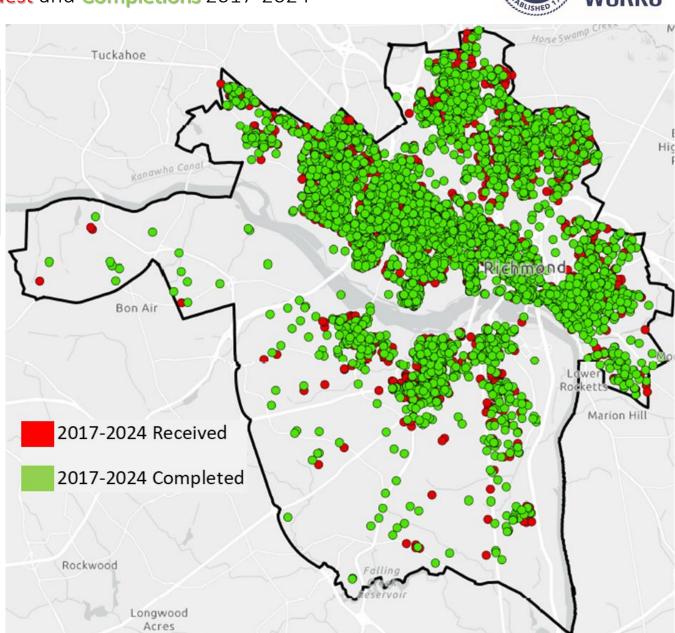
Total Received – 7,333





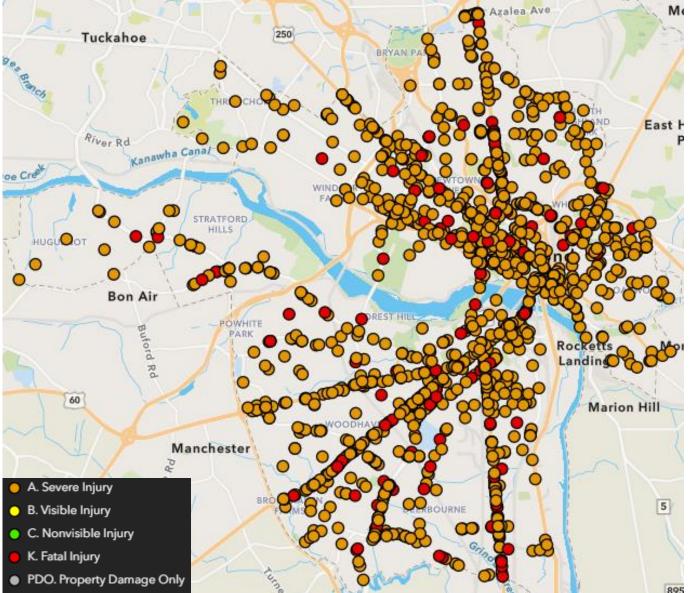
Total Completed – 5,625





VDOT High Injury Network KA Crash Data – Richmond 2015 - 2023





City/VDOT Accident Data

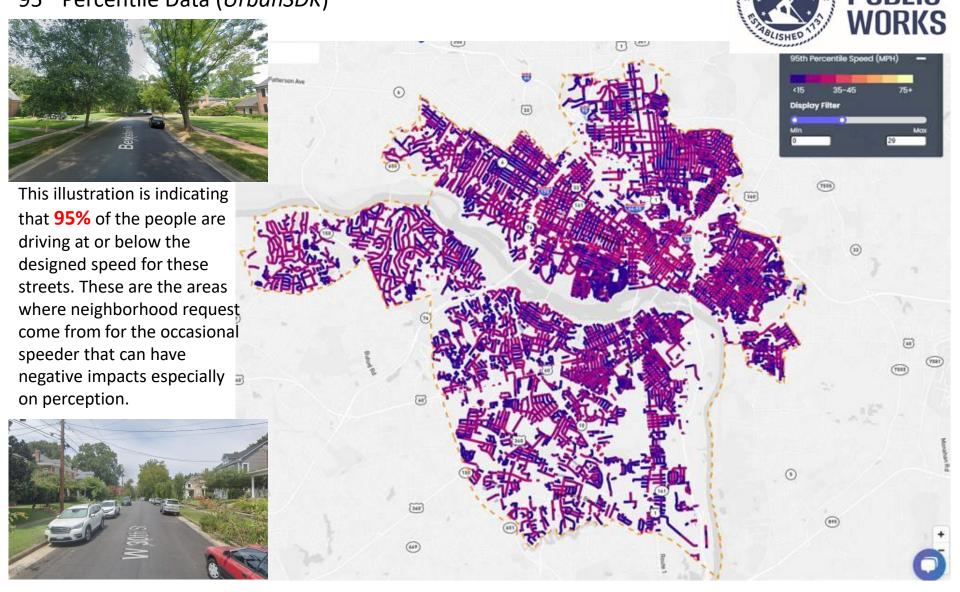
- 39,331 Accidents
- 1,564 Severe Injuries
- 146 Fatalities



Factors in Prioritizing Calming Projects:

- » Crash history;
- » Traffic volumes;
- » Road speed profile
- » Length of road segment
- » Distance to the nearest traffic control device

Citywide 2025 Speed Management Study 95th Percentile Data (*UrbanSDK*)



Street Design is accurate and 95% of the people are driving at or below the designed speed limit

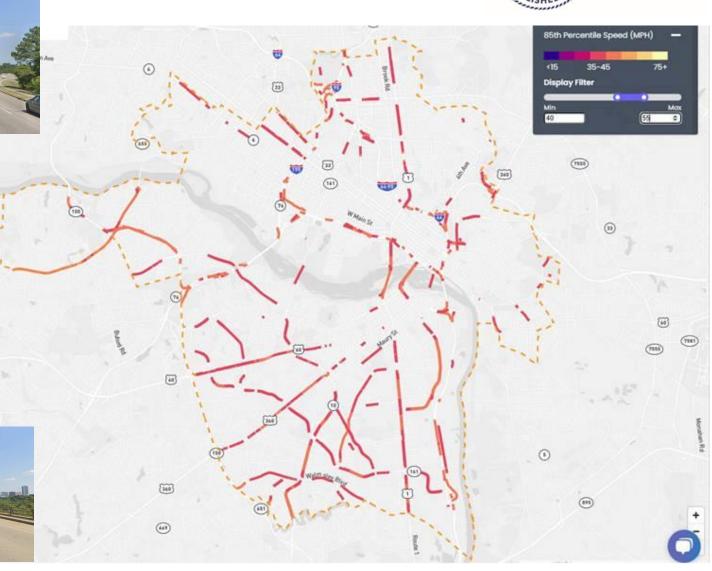
Citywide 2025 Speed Management Study

85th Percentile Data (*UrbanSDK*)



This illustration is indicating that **85%** of the people are driving at or below the designed speed for these streets, MEANING 15% are driving TOO FAST...WHY, because the road is designed for a higher speed. THIS is where we are trying to redesign and engineer the High Injury Network to reduce serious injuries and fatalities.



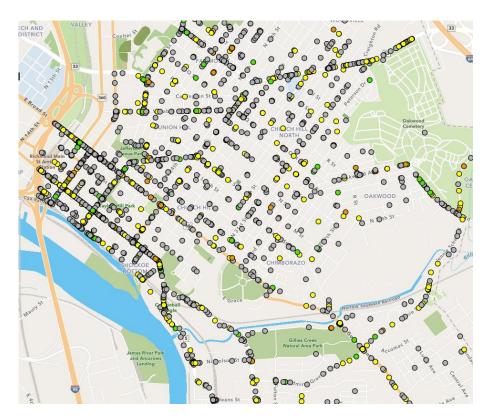


Street design undergoing modifications to change the vantage point of the driver

VDOT 7th District Crash Data SnapShot

2015 - 2023





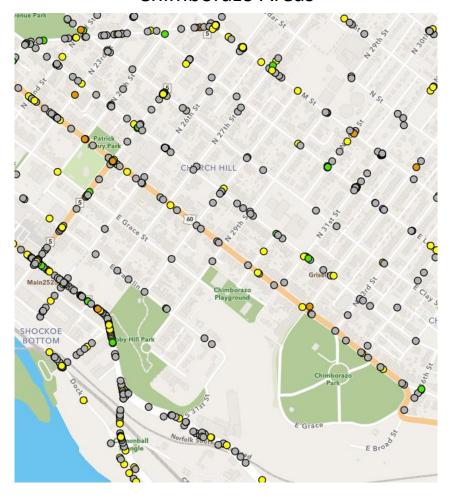
3,440 Total 7th CD Accidents

- 2,372 Propery Damage Only
- 153 Non-Visible Injury
- 803 Visible Injury
- 108 Severe Injury
- 4 Fatalities



Neighborhoods

Shockoe Bottom, Church Hill and Chimborazo Areas



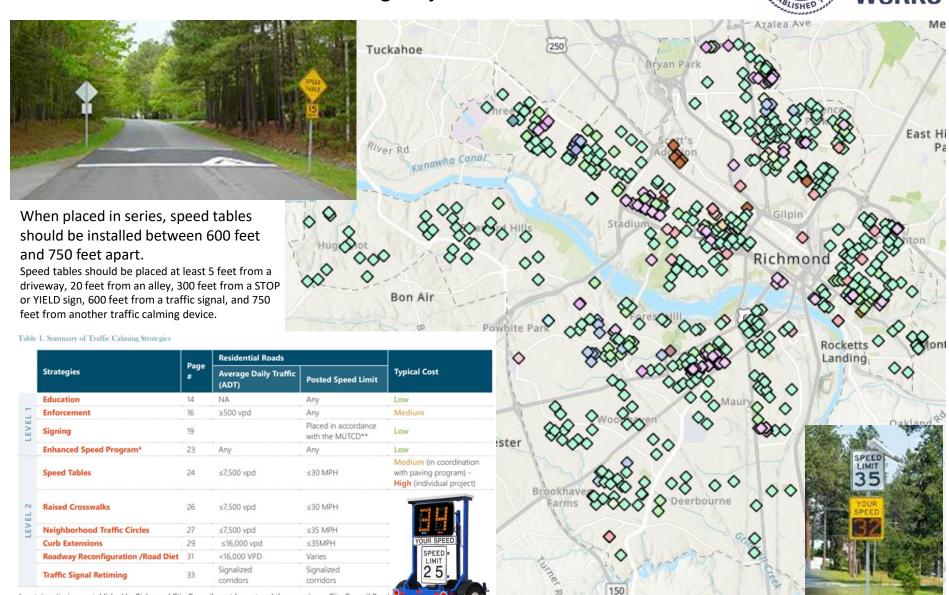
Speed Tables and Traffic Calming Citywide

62 Different 7th District Traffic Calming Projects

* certain criteria as established by Richmond City Council must be met and then requires a City Council Resol

** MUTCD - Manual on Uniform Traffic Control Devises









<u>Transportation Projects are funded at \$656M:</u>

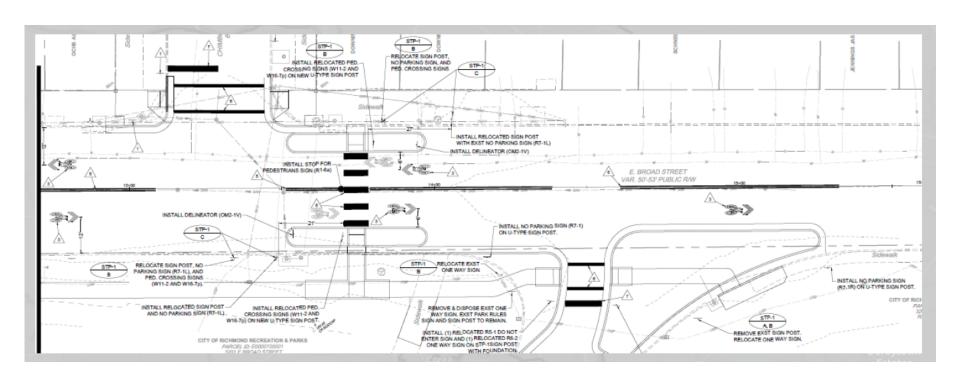
- Complete Streets at \$105M
- Fall Line Trail construction at \$58.4M
- Major Bridge Improvements at \$160M
- Major Arterial Upgrades such as Hull Street funded at \$50M

FY 2025 - 2029 Capital Improvement Program Funding Sources Detail										
General Fund	Adopted		Planned							
Sources of Funds	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL				
Federal/State/Regional Transportation Funds										
Central Virginia Transportation Authority (CVTA)	6,500,000	17,035,303	20,084,951	15,042,828	21,106,014	79,769,096				
Congestion Mitigation and Air Quality Improvement Program (CMAQ)	6,236,000	_	_	1	1	6,236,000				
Federal - Other	3,770,000	2,328,000	_	-	_	6,098,000				
Highway Safety Improvement Program (HSIP)	8,444,502	14,428,000	749,000	_	_	23,621,502				
Metropolitan Planning Organization - Regional Surface Transportation Program (MPO RSTP)	4,722,139	9,724,000	_	-	_	14,446,139				
Revenue Reduction - State	(422,214)	_	_	_	_	(422,214)				
Revenue Reduction - TAP	(309,000)	_	_	_	_	(309,000)				
Revenue Sharing	2,091,391	349,000	_	_	_	2,440,391				
Smart Scale	9,584,000	27,268,000	15,622,000	37,667,000	33,572,000	123,713,000				
State of Good Repair (SGR)	1,423,000	812,000	_	_		2,235,000				
Subtotal: Federal/State/ Regional Transportation Funds	42,039,818	71,944,303	36,455,951	52,709,828	54,678,014	257,827,914				

Chimborazo Park ROW Safety Improvements



<u>Description & Scope</u>: pedestrian improvements along East Broad Street at, and between the roadway's intersections with North 33rd Street, Chimborazo Boulevard, and North 34th Street, including installation of new sidewalk along the Southeast-Bound side of East Broad Street, ADA-compliant curb ramps, curb extensions, pavement removal, and roadway width reduction. Projected Summer 2025 start date.



Government Road Safety Improvements

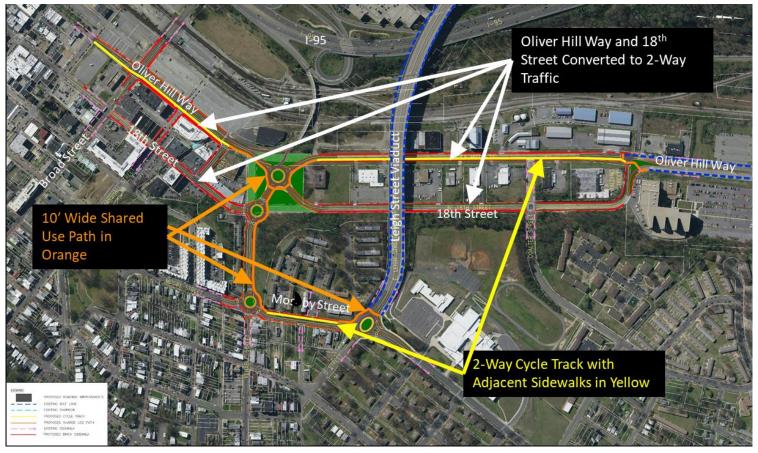


<u>Description & Scope:</u> geotechnical study, design and long-term stabilization of the Chimborazo Park slope failure in the vicinity of Government Road. Phase I is estimated at \$1.35 million to stabilize Government Road and Phase II is estimated at \$2.76 million to stabilize Park Access Road. Phase III is estimated at a cost of \$3.3 million to stabilize remaining part of the Government Road in the future. Projected Fall 2025 Start Date



Shockoe Valley Streets Project Overview





This project includes improvements in the vicinity of the Broad Street interchange with I-95. Some of the corridors and intersections improvements based on traffic analysis will include Oliver Hill and Venable Street (newly proposed roundabout or traffic signal), Venable Street and 18th Street (new roundabout), Mosby and Venable Street (roundabout), 17th Street and Broad Street (new traffic signal), the Martin Luther King Bridge, Mosby and "O" Street (new roundabout). Some streets, like 18th Street from Balding to Broad and Oliver Hill from Broad might be converted, after traffic analysis, from one-way to two-way traffic.

Major Streetscape Construction Projects

Streetscape Projects

A streetscape project is a program that aims to improve the design and conditions of a street to accommodate the needs of all users.

Streetscape projects can include a variety of improvements, such as:

- Roadway: Narrowing of travel lanes for traffic calming
- Sidewalks: Widening sidewalks and improving connectivity
- Lighting: Upgrade and increasing of street lighting
- Landscaping: Adding trees or other landscaping
- Street furniture: Adding benches, garbage cans, etc.
- Signage: Improving way-finding, directional, or regulatory signage
- Bicycling infrastructure: Adding bicycle lanes
- Street crossing safety: High Visibility Crosswalks
- Traffic calming: Speed Tables, Bump Outs, Narrowing ROW

PROJECT	TOTAL PROJECT	Category Tabulation
Belvidere Street Gateway- Phase IV, Rowe St Section A, Idle	\$718,000.00	
Biotech Phase 3 (VBTP Streetscape)	\$1,220,000.00	
Hull Street Streetscape PE & CN (Landscape, Lighting, Signa	\$4,061,000.00	
Jefferson Ave. Improvements -Phase II	\$1,395,000.00	
Leigh Street Streetscape	\$6,608,000.00	\$21,826,862.00
Maury StreetScape Project	\$4,618,000.00	
Nicholson Street Streetscape	\$1,292,000.00	
North Patterson Ave	\$302,862.00	
Richmond Highway Phase II	\$0.00	
Scotts Addition BRT Street Scape Project	\$1,612,000.00	











Multi-modal Crossing Improvements



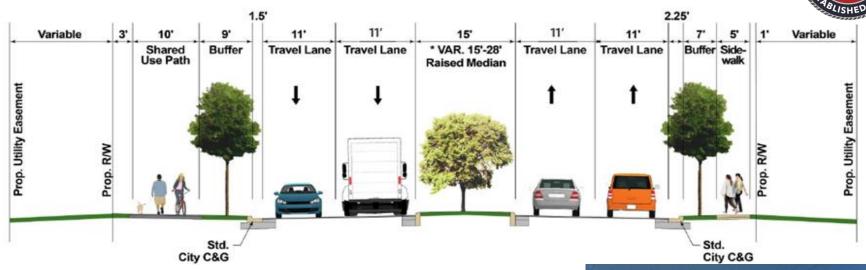
Intersection and multi-modal crossing upgrades can improve safety and traffic flow for pedestrians, bicyclists, and drivers. Some common upgrades include

- Improved visibility
- Raised intersections
- Improved signal timing
- Better bicycle facilities



PROJECT	TOTAL PROJECT	Category Tabulation
21st St @ Main St Traffic Signal Upgrade	\$375,000.00	
32nd St @ Midlothian Tpke	\$425,000.00	
7th St @ Hospital St New Traffic Signal	\$975,000.00	
Automated Traffic Signal Performance Measures (ATSPM)	\$7,424,000.00	
Belt Blvd & Hull St Hull Street (Bus Transfer Center) - Pedestr	\$1,555,352.00	
Broad St @ Commonwealth Ave Traffic Signal Upgrade	\$425,000.00	
Brook Rd @ Westbrook Ave Traffic Signal Improvements	\$500,000.00	
Chamberlayne Ave @ Bacon St New Traffic Signal	\$750,000.00	
Chamberlayne Ave @ School St Traffic Signal Upgrade	\$400,000.00	
Cumberland St @ Laurel St New Traffic Signal	\$460,000.00	
E Main St./Williamsburg Ave. Intersection Improvement	\$2,370,000.00	\$59,402,083.00
Forest Hill Ave @ Bainbridge St\Broad Rock Rd Traffic Signal	\$375,000.00	
HVSB Systemic Improvements - Signal Controlled Intersection	\$4,737,000.00	
Malvern Ave @ Cary St Traffic Signal Improvements	\$500,000.00	
New Traffic Control Signals	\$2,111,818.00	
Patterson Ave @ Pepper Ave New Traffic Signal	\$400,000.00	
Patterson Ave @ St. Christopher Rd New Traffic Signal	\$400,000.00	
Richmond Highway - Rte 1 Intersection Improvement Harwood	\$11,637,000.00	
Richmond Signal System (RSS) Smart City Traffic Signals Co	\$7,266,535.00	
Richmond Signal System Phase IV - Remote Control	\$10,383,000.00	
Semmes Avenue Forest Hill Int./Ped. Safety UPC: 113445 & 1	\$2,397,990.00	
Systemic Improvements - Stop Controlled Intersections	\$3,534,388.00	

Bridge Replacement and Complete Streets Projects



PROJECT	TOTAL PROJECT	Category Tabulation
Arthur Ashe Blvd Bridge Replacement	\$23,000,000.00	
Columbia St over Goodes Creek structure replacement	\$1,600,000.00	
E. Broad St over Abandoned RR spur	\$3,965,009.00	
E. Richmond Rd over Gillies Crk Bridge Replacement	\$1,800,000.00	\$64,134,879.00
E. Richmond Rd over Stony Run Bridge Replacement	\$1,852,870.00	
Hull St over Manchester Canal	\$9,176,000.00	
Lombardy St over CSX Bridge replacement	\$15,941,000.00	
Lynhaven Ave over Broad Rock Creek Bridge Replacement	\$1,100,000.00	
Martin Luther King Bridge Repairs	\$5,700,000.00	
Hey Road Improvements	\$1,600,000.00	
Hull Street Improvements - VDOT Phase I	\$33,100,000.00	\$80,546,000.00
Jahnke Road Improvement - PE, RW & CN	\$14,000,000.00	ψου,υ + υ,υου.υυ
Shockoe Valley Streets Improvement Project	\$31,846,000.00	



