

RIMS/UMIS GEOREFERENCING

UCI Annual Meeting

 John Leonard, Local Finance Manager, Local Assistance Division

August 2018

Urban Maintenance Payments

Eligibility Requirements for Maintenance Payments:

- Urban street acceptance criteria established in Code Section 33.1-41.1
- CTB approves mileage additions/ deletions

Payment - General

- Payments based on moving lane miles (available to peak-hour traffic)
- CTB approves payment amounts to localities
- Localities annual growth rate is based upon the base rate of growth for VDOT's maintenance program
- Payments to localities made quarterly

Payment Categories/ FY19 Rates – Functional Classifications

1. Principal and Minor Arterial Roads: \$21,689 per lane mile
2. Collector Roads and Local Streets: \$12,734 per lane mile

Overall FY19 Urban Maintenance Budget ≈ \$386M

RIMS/UMIS Georeferencing Project

A project was initiated in 2008, referred to as the Urban Conversion Project (UCP).

The project was intended to replace a manual Urban Maintenance Inventory System (UMIS) and allow the urban street data to be georeferenced. Combining the VDOT Urban Maintenance Inventory System (UMIS) into a geospatial layer with a centerline dataset on the Roadway Network System.

We are now reaching the final stages of this effort. The remaining effort is focused on hammering out a few bugs and placing the final segments.

UMIS Legacy System

The Current UMIS system is a collection of street segments which can be exported to a pdf for each locality.

UMIS DETAIL REPORT		VIRGINIA DEPARTMENT OF TRANSPORTATION LOCAL ASSISTANCE DIVISION URBAN MAINTENANCE INVENTORY											
Date: 8/18/2018 Time: 9:41:54AM		Planning District: (03) Mount Rogers		Construction District: (01) Bristol									
SEQUENCE	ROUTE(S)	FACILITY NAME	FROM	TO	F U N C T I O N C L A S S	F U N C T I O N C L A S S	L E N G T H M I L E	W I D T H F T	W I D T H F T	T Y P E O P E R	P E A K H O U R	# T L	M O V I N G L A N E M I L E S
101000	84 LUMBER RD		MAIN ST E	CUL DE SAC	LOC	LOS	0.08	50	30	2	2	0.12	
1000	A ST SE		GREEN SPRING RD	0.31 W GREEN SPRING RD	LOC	LOS	0.31	0	22	2	2	0.62	
2000	A ST SE	0.31 W	GREEN SPRING RD	DEADMORE ST	LOC	LOS	0.15	0	22	2	2	0.30	
201000	ACADEMY DR		MAIN ST W	0.07 N MAIN ST W	LOC	LOS	0.07	20	2	2	0.14		
202000	ACADEMY DR	0.07 N	MAIN ST W	0.47 N MAIN ST W	LOC	LOS	0.40	12	1	1	0.40		
203000	ACADEMY DR	0.10 S	RUSSELL RD	RUSSELL RD	LOC	LOS	0.10	22	2	2	0.20		
205000	ALTAMONT ST		OLD ELEVEN DR	DEAD END	LOC	LOS	0.07	50	20	2	2	0.14	
301000	ARNOLD ST NE		WHITES MILL RD	0.08 E WHITES MILL RD	LOC	LOS	0.08	18	2	2	0.16		
305000	AUGUSTA DR		WINTERHAM DR	SAWGRASS CIR	LOC	LOS	0.08	60	24	2	2	0.16	
308000	AUGUSTA DR		SAWGRASS CIR	WINTERHAM DR	LOC	LOS	0.24	60	24	2	2	0.48	
101000	B ST		SPRING ST	KINGS MOUNTAIN DR	LOC	LOS	0.32	21	2	2	0.64		
1000	BALTIMORE ST		RUSSELL RD	0.04 N RUSSELL RD	LOC	LOS	0.04	30	18	2	2	0.08	
201000	BARTER DR NE		COURT ST	0.07 E COURT ST	LOC	LOS	0.07	28	2	2	0.14		
202000	BARTER DR NE	0.07 E	COURT ST	0.14 E COURT ST	LOC	LOS	0.07	0	22	2	2	0.14	
1000	BAUGH LA NE		MAIN ST E	WAYNE AVE	LOC	LOS	0.50	40	20	2	2	1.00	
2000	BAUGH LA NE		WAYNE AVE	FALCON DR	LOC	LOS	0.10	40	20	2	2	0.20	
3000	BAUGH LA NE		FALCON DR	MORNINGSIDE LA	LOC	LOS	0.04	40	20	2	2	0.08	
4000	BAUGH LA NE		MORNINGSIDE LA	EDGEMONT ST N	LOC	LOS	0.03	40	20	2	2	0.06	
5000	BAUGH LA NE		EDGEMONT ST N	EUCLID AVE	LOC	LOS	0.17	40	20	2	2	0.34	
6000	BAUGH LA NE		EUCLID AVE	PANACELLA DR	LOC	LOS	0.05	40	20	2	2	0.10	
7000	BAUGH LA NE		PANACELLA DR	WOODLAWN TER	LOC	LOS	0.08	40	20	2	2	0.16	
8000	BAUGH LA NE		WOODLAWN TER	NEW NCL	LOC	LOS	0.15	40	20	2	2	0.30	
1000	BEECHWOOD DR		SUNSET DR	CUL DE SAC	LOC	LOS	0.07	0	32	2	2	0.14	
307000	BEVERLY DR NE		CHARWOOD DR	EDMOND DR	LOC	LOS	0.18	50	20	2	2	0.36	
308000	BEVERLY DR NE		EDMOND DR	DEAD END	LOC	LOS	0.04	50	20	2	2	0.08	
305000	BEVERLY DR SW		CHARWOOD DR	MAIDEN ST	LOC	LOS	0.15	50	20	2	2	0.30	
308000	BEVERLY DR SW		MAIDEN ST	CUL DE SAC	LOC	LOS	0.16	50	20	2	2	0.32	
309000	BIRDIE DR		CUMMINGS ST	LONGVIEW DR	LOC	LOS	0.10	60	22	2	2	0.20	
309100	BIRDIE DR		LONGVIEW DR	PAR PLACE	LOC	LOS	0.09	60	22	2	2	0.18	
309800	BIRDIE DR		PAR PLACE	BOGEY DR	LOC	LOS	0.07	60	22	2	2	0.14	

RIMS System

URBAN DETAIL REPORT
Date/Time: 08/12/2019 1:24:26 PM

VIRGINIA DEPARTMENT OF TRANSPORTATION
LOCAL ASSISTANCE DIVISION
URBAN MAINTENANCE INVENTORY

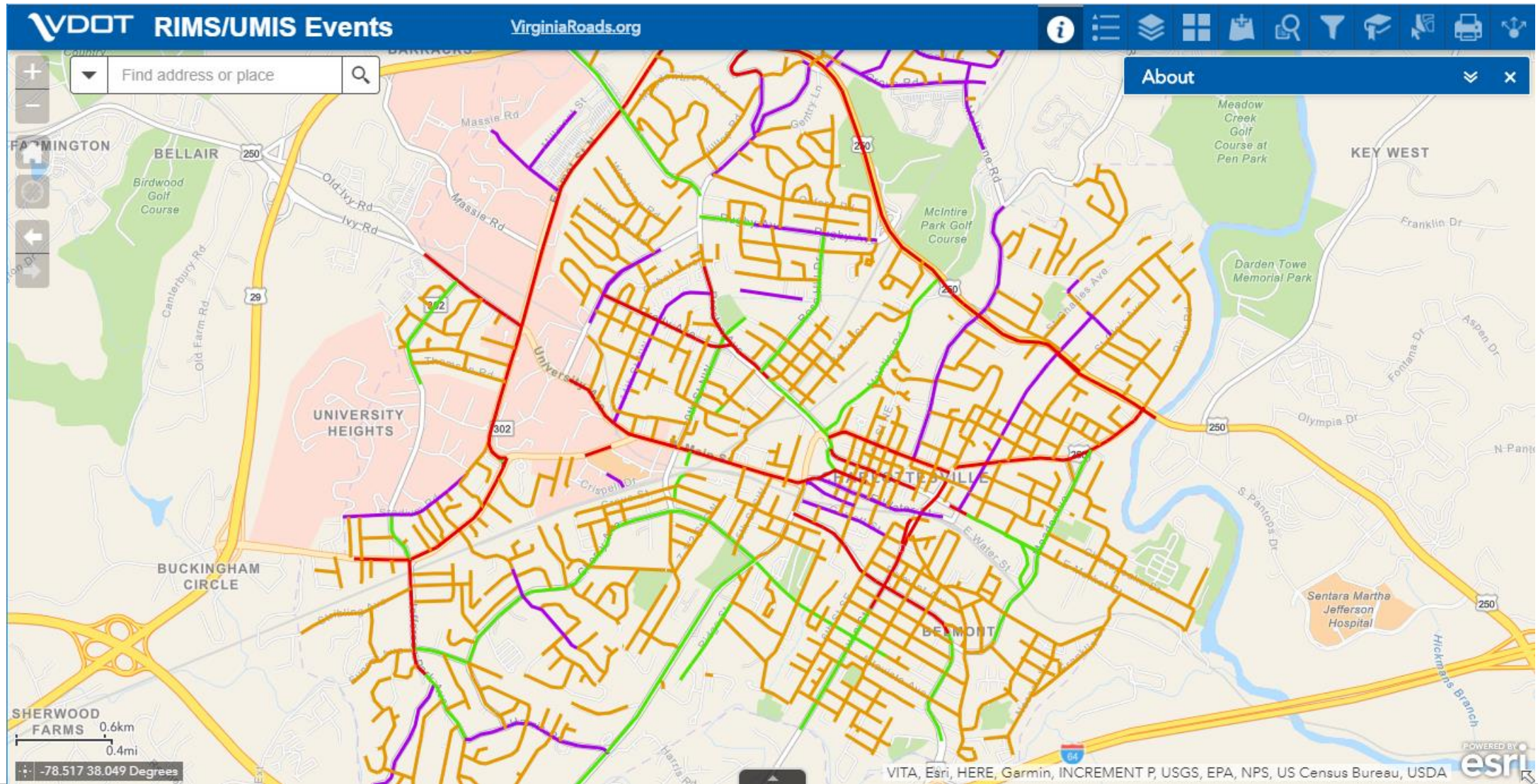
(104) City of Charlottesville

Planning District: (10) Thomas Jefferson

Construction District: (07) Culpeper

Event ID	Prefix	Street Nm	Street Type	Suffix	From Street	To Street	Nbr	Fedl Functi Class	Length X.XX Miles	Total Lane Cnt	Peak Hour Lane Miles	Type Oper	R/W Width Feet	Pave Width Feet	Bike Lane Cnt	Rapid Transit Lane Cnt	Apprvd for Pymnt ?	Segme nt Of Peak Lane Cnt
563668	10 1/2		ST	NW	Rte Gap, Page St (Charlottesville City)	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)		LOC	0.24	2	0.48	TUD	20	29	0	0	Y	2
571899	10 1/2		ST	NW	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)	Rosser Ave (Charlottesville City)		LOC	0.08	2	0.16	TUD	0	20	0	0	Y	2
571900	10Th		ST	NE	Market St (Charlottesville City), Rte 3404 (Charlottesville City)	Jefferson St (Charlottesville City)		MIC	0.08	2	0.16	TUD	0	28	0	0	Y	2
569666	10Th		ST	NE	Jefferson St (Charlottesville City)	High St (Charlottesville City), Locust Ave (Charlottesville City), Rte 3412 (Charlottesville City), Rte 20, Bus Rte 250 (Charlottesville City)		MIC	0.14	2	0.28	TUD	0	37	0	0	Y	2
568820	10Th		ST	NW	Dead End, Roosevelt Brown Blvd (Charlottesville City), Main St (Charlottesville City), Rte 3423 (Charlottesville City), Bus Rte 250 (Charlottesville City)	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)		MIA	0.43	2	0.86	TUD	0	31	0	0	Y	2
567702	10Th		ST	NW	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)	Preston Ave (Charlottesville City), Rte 3431 (Charlottesville City)		LOC	0.03	2	0.06	TUD	0	21	0	0	Y	2
578012	10Th		ST	NW	Preston Ave (Charlottesville City), Rte 3431 (Charlottesville City)	Henry Ave (Charlottesville City)		LOC	0.12	2	0.24	TUD	20	30	0	0	Y	2
573889	11Th		ST	NE	Market St (Charlottesville City), Rte 3404 (Charlottesville City)	Jefferson St (Charlottesville City)		LOC	0.05	2	0.10	TUD	0	23	0	0	Y	2
575952	11Th		ST	NE	Jefferson St (Charlottesville City)	Little High St (Charlottesville City)		LOC	0.12	2	0.24	TUD	0	38	0	0	Y	2
572875	11Th		ST	NE	Little High St (Charlottesville City)	-0.03 High St (Charlottesville City), Rte 20, Bus Rte 250 (Charlottesville City)		LOC	0.04	2	0.08	TUD	0	30	0	0	Y	2
570892	11Th		ST	NE	-0.03 High St (Charlottesville City), Rte 20, Bus Rte 250 (Charlottesville City)	High St (Charlottesville City), Rte 20, Bus Rte 250 (Charlottesville City)		LOC	0.03	2	0.06	TUD	0	40	0	0	Y	2
571901	11Th		ST	NW	-0.04 West St (Charlottesville City)	West St (Charlottesville City)		LOC	0.04	2	0.08	TUD	0	18	0	0	Y	2
575953	11Th		ST	NW	West St (Charlottesville City)	-0.09 Rosser Ave (Charlottesville City)		LOC	0.06	2	0.12	TUD	0	31	0	0	Y	2
573890	11Th		ST	NW	-0.09 Rosser Ave (Charlottesville City)	Rosser Ave (Charlottesville City)		LOC	0.09	2	0.18	TUD	0	29	0	0	Y	2
575954	12Th		ST	NE	Market St (Charlottesville City), Rte 3404 (Charlottesville City)	Rte Gap, Jefferson St (Charlottesville City)		LOC	0.08	2	0.16	TUD	0	39	0	0	Y	2
566673	12Th		ST	NE	Rte Gap, Jefferson St (Charlottesville City)	Little High St (Charlottesville City)		LOC	0.10	2	0.20	TUD	0	29	0	0	Y	2
578022	12Th		ST	NE	Little High St (Charlottesville City)	Meriwether St (Charlottesville City)		LOC	0.06	2	0.12	TUD	0	20	0	0	Y	2
576964	12Th		ST	NW	Main St (Charlottesville City), Bus Rte 250 (Charlottesville City)	Rte Gap, Wertland St (Charlottesville City)		LOC	0.09	2	0.18	TUD	0	20	0	0	Y	2
568830	12Th		ST	NW	-0.07 Gordon Ave (Charlottesville City)	Gordon Ave (Charlottesville City)		LOC	0.07	2	0.14	TUD	0	30	0	0	Y	2
570896	12Th		ST	NW	Gordon Ave (Charlottesville City)	0.05 Gordon Ave (Charlottesville City)		LOC	0.05	2	0.10	TUD	0	20	0	0	Y	2
570630	12Th		ST	NW	0.05 Gordon Ave (Charlottesville City)	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)		LOC	0.01	2	0.02	TUD	0	30	0	0	Y	2
575885	12Th		ST	NW	Grady Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)	Dead End;		LOC	0.08	2	0.16	TUD	0	20	0	0	Y	2
568758	13Th		ST	NE	Jefferson St (Charlottesville City)	Rte Gap, Dead End;		LOC	0.06	2	0.12	TUD	0	30	0	0	Y	2
566613	13Th		ST	NE	Rte Gap, Little High St (Charlottesville City)	Meriwether St (Charlottesville City)		LOC	0.06	2	0.12	TUD	0	25	0	0	Y	2
570825	13Th		ST	NE	Meriwether St (Charlottesville City)	Rte Gap;		LOC	0.05	2	0.10	TUD	0	31	0	0	Y	2
567637	13Th		ST	NW	Main St (Charlottesville City), Bus Rte 250 (Charlottesville City)	Rte Gap, Wertland St (Charlottesville City)		LOC	0.07	1	0.07	TUD	0	24	0	0	Y	1
571831	13Th		ST	NW	Rte Gap, Gordon Ave (Charlottesville City)	0.02 Rte Gap, Gordon Ave (Charlottesville City)		LOC	0.02	2	0.04	TUD	0	21	0	0	Y	2
573833	13Th		ST	NW	0.02 Rte Gap, Gordon Ave (Charlottesville City)	Dead End;		LOC	0.08	2	0.16	TUD	0	29	0	0	Y	2
575886	14Th		ST	NW	Main St (Charlottesville City), University Ave (Charlottesville City), Bus Rte 250 (Charlottesville City)	Grady Ave (Charlottesville City), Madison Ave (Charlottesville City), Bus Rte 250 (Charlottesville City), Rte 3425 (Charlottesville City)		MIC	0.48	2	0.90	TUD	20	31	0	0	Y	2
566614	15Th		ST	NW	Wertland St (Charlottesville City)	Sadler St (Charlottesville City)		LOC	0.13	1	0.13	TUD	0	21	0	0	Y	1
569795	15Th		ST	NW	Sadler St (Charlottesville City)	0.07 Sadler St (Charlottesville City)		LOC	0.07	1	0.07	TUD	0	20	0	0	Y	1
577945	15Th		ST	NW	0.07 Sadler St (Charlottesville City)	0.17 Sadler St (Charlottesville City)		LOC	0.10	1	0.10	TUD	0	20	0	0	Y	1
569796	15Th		ST	NW	0.17 Sadler St (Charlottesville City)	0.25 Sadler St (Charlottesville City)		LOC	0.08	2	0.16	TUD	0	30	0	0	Y	2

Public UMIS Map



Public UMIS Map

VDOT RIMS/UMIS Events VirginiaRoads.org

Find address or place

Legend

Bruce AVE (PR - City of Charlottesville)
 Route Name: S-VA104PR BRUCE AVE
 Route Category Name: Urban Streets
 Route Type Name: Urban Road
 Peak Lane Count: 2
 Pavement Width: 35.00
 See attribute table for more details...
[Zoom to](#)

100m
300ft
-78.486 38.050 Degrees

City of Charlottesville, County of Albemarle, VITA, West Virginia GIS, Esri, HERE, Garmin, INCREME... **esri**

UMIS Events Virginia Counties

Options Filter by map extent Zoom to Clear selection Refresh

OBJECTID	EVENT_SOURCE	RTE_COMMON_I	RTE_FROM_MSR	RTE_TO_MSR	LAD_UMIS_SEGM	LAD_UMIS_SOUR	LAD_UMIS_SOUR	LAD_UMIS_PEAK	LAD_UMIS_ROW	LAD_UMIS_PAVEI	LAD_UMIS_PAY_A	LAD_UMIS_COMI
17650	503,241	Bruce AVE (PR - City of Charlottesville)	0.00	0.16	503,241	0.32	0.16	2		35.00	Y	Juris: 104; Facility: BRUCE AVE; Seq: 2501000; From: WELLFORD ST; To: CAMBRIDGE CIR; From

1 features 0 selected

Moving Forward

The hardest part of this project has been building the centerlines.

Centerlines benefit VDOT as a whole. They help VDOT place crash data, structure locations, etc.

Localities will be able to see what streets are in the system, as well as what streets are excluded.

