

RIMS/UMIS GEOREFERENCING

| John Leonard, Local Finance Manager, Local Assistance Division

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/ FY20 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 FY20 Urban Maintenance Budget ≈ \$387.5M

RIMS/UMIS Georeferencing Project Update

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.

The UCP project was intended to correct defects that would make segments unmappable. The UCP project was completed in 2016.

The RIMS Conversion project placed the segments on a public map. It was completed in 2018.

We are now reaching the final stages of this effort. The remaining effort is focused on fixing the remaining segments whose mileage doesn't match the GIS measured mileage, or those which were placed incorrectly.

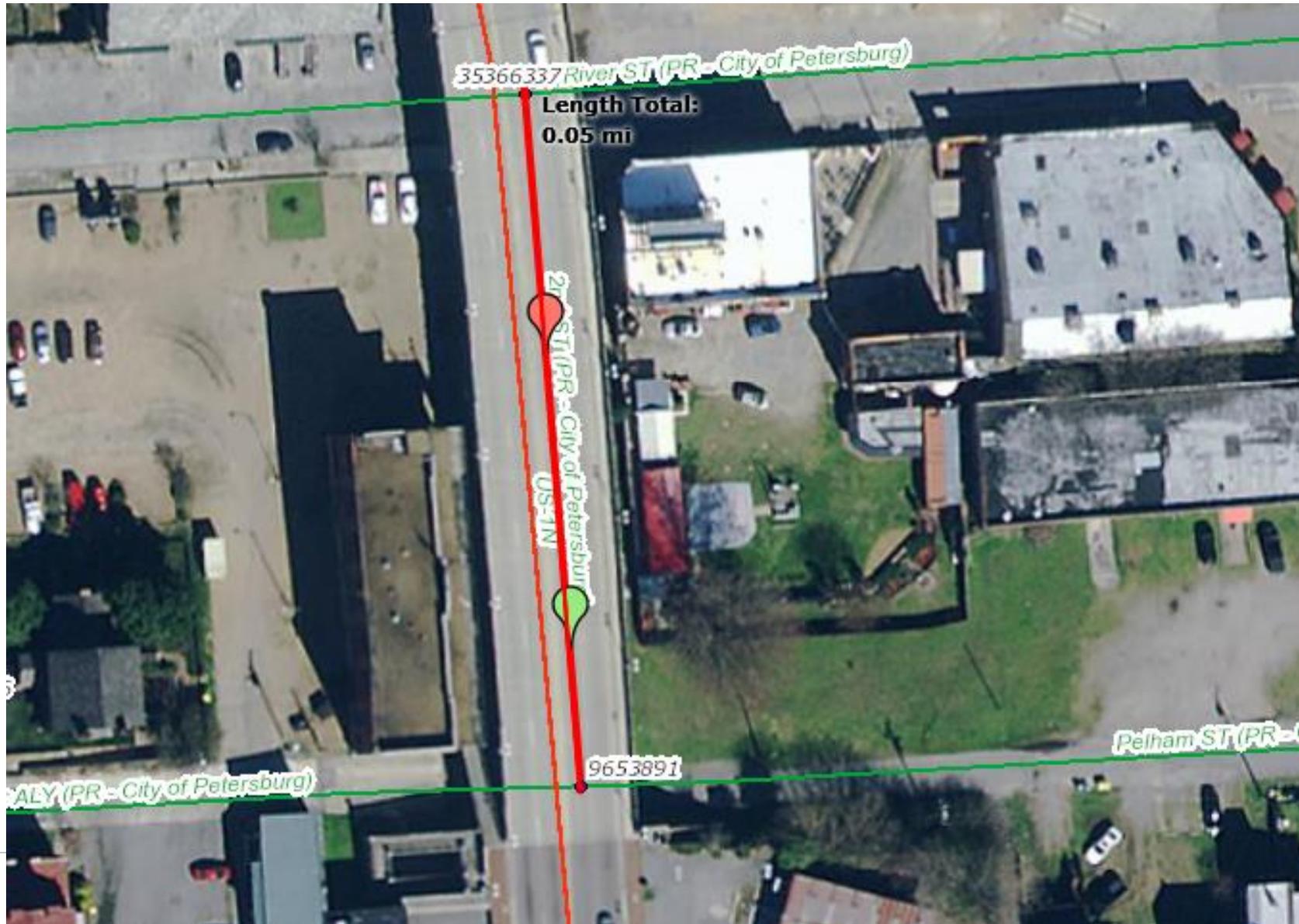
Project Metrics

January – began with approximately 17,000 segments affected by a mileage difference greater than 0.03 +/- . Most adjustments are for sections where the mileage doesn't match the length of the road. We either have to extend or reduce the mileage to properly reflect the road.

Today – We have approximately 200 mileage adjustments left to review. Most of these are problems with the orientation of the centerlines or errors in the maps. We are working with Maintenance Division on many of these.

Future – It will take about 3 – 6 months to enter the changes in UMIS and RIMS. Localities should see a letter detailing their exact adjustments in the coming months.

Example





42



Exit Street View

N

[Report a problem](#)

© 2019 Google
© 2018 Google

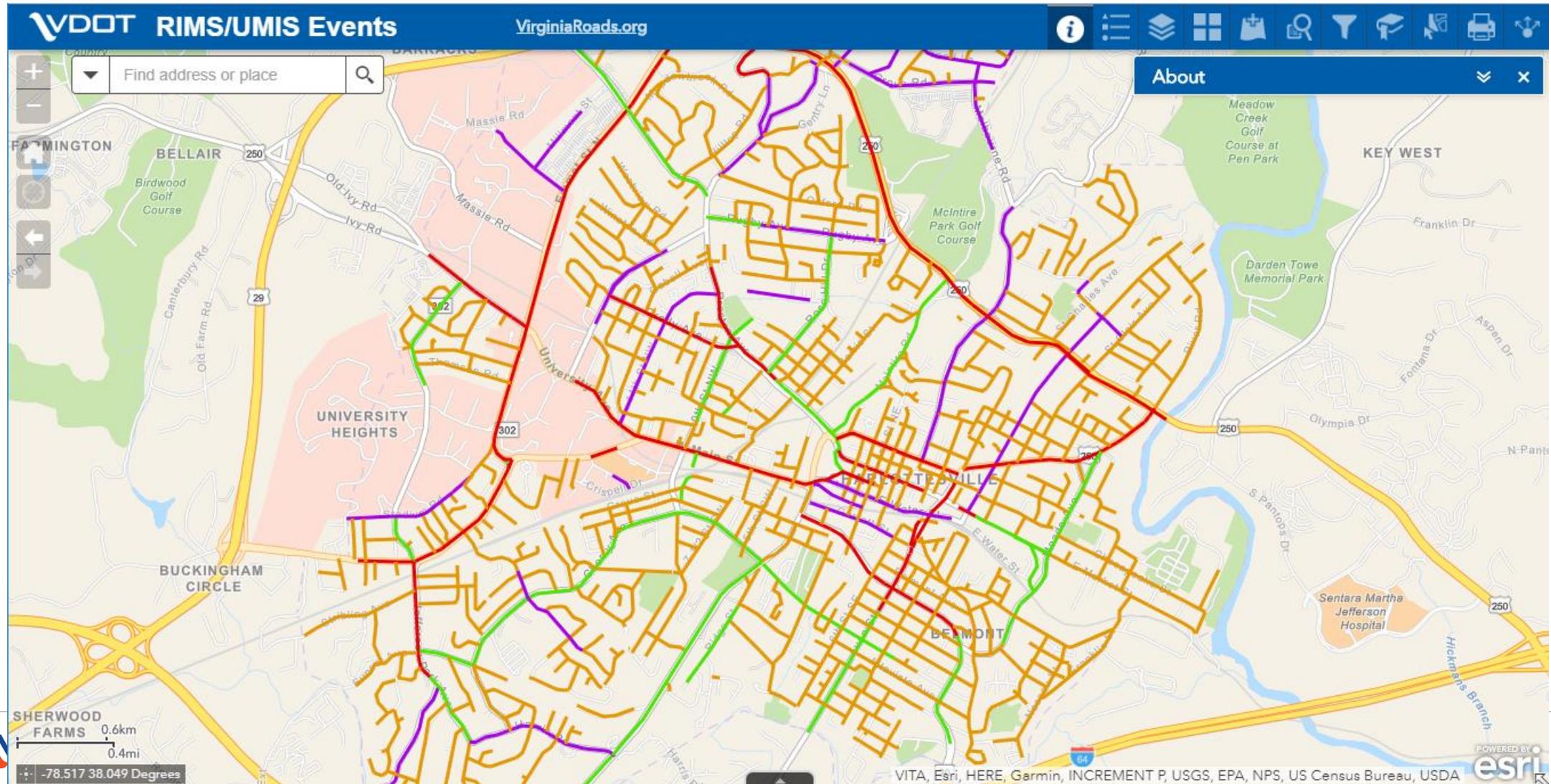
37°14'00.91" N 77°24'

Rt is under the bridge
and is brick paved



Public UMIS Map

<http://vdot.maps.arcgis.com/apps/webappviewer/index.html?id=966db05d0c0744b389d7791b9fb987c8>



Arterial Inspections

The Inspection Process is detailed in the Urban Manual.

Primarily, Arterials are inspected for:

- 1. Pavement**
- 2. Shoulder/Curb and Gutter**
- 3. Roadsides**
- 4. Drainage**
- 5. Traffic Control and Safety**

Inspections occur annually.

Inspections

INSPECTION ARTERIAL REPORT
 Datetime: 10/15/2018 3:31:17 PM

VIRGINIA DEPARTMENT OF TRANSPORTATION
 LOCAL ASSISTANCE DIVISION
 ARTERIALS FOR ANNUAL INSPECTION

Page 79 of 296

Lynchburg

Segment Id	Street Name	From Street	To Street	Ln Miles	NHS	1	2	3	4	5	6	Comment or Action Plan	Safety Issue?
513182	FLORIDA AVE	Main St (Lynchburg C	Grace St (Lynchburg	0.78									
513181	FLORIDA AVE	Grace St (Lynchburg	-0.70 Campbell Ave (Lynchb	2.06									
513180	FLORIDA AVE	-0.70 Campbell Ave (Lynchb	Campbell Ave (Lynchb	1.40									
513595	FORT AVE	Park Ave (Lynchburg	Campbell Ave (Lynchb	0.32									
513594	FORT AVE	Campbell Ave (Lynchb	Wadsworth St (Lynchb	0.48									
513593	FORT AVE	Wadsworth St (Lynchb	Wythe Rd (Lynchburg	0.86									
513592	FORT AVE	Wythe Rd (Lynchburg	Oakridge Blvd (Lynch	0.88									
513591	FORT AVE	Oakridge Blvd (Lynch	Overlap Rte; Memoria	0.16									
513581	FORT AVE	Overlap Rte; Memoria	New Hampshire Ave (L	1.04	X								
513582	FORT AVE	Overlap Rte; Memoria	New Hampshire Ave (L	0.44	X								
513590	FORT AVE	New Hampshire Ave (L	Perrymont Ave (Lynch	1.08	X								
513589	FORT AVE	Perrymont Ave (Lynch	Randolph Ln (Lynchbu	0.76	X								
513588	FORT AVE	Randolph Ln (Lynchbu	Lindsay St (Lynchbur	1.28	X								
513587	FORT AVE	Lindsay St (Lynchbur	Fort Ave (Lynchburg	0.65	X								
513586	FORT AVE	Fort Ave (Lynchburg	Sandusky Dr (Lynchbu	1.64	X								
513585	FORT AVE	Sandusky Dr (Lynchbu	Long Meadows Dr (Lyn	1.28	X								
513584	FORT AVE	Long Meadows Dr (Lyn	Fenwick Dr (Lynchbur	0.64	X								
513583	FORT AVE	Fenwick Dr (Lynchbur	Graves Mill Rd (Lync	0.64	X								
513735	GRAVES MILL RD	Graves Mill Rd (Lync	0.07 Ramp to Lynchburg NB	0.68									
513736	GRAVES MILL RD	0.07 Ramp to Lynchburg NB	0.25 Ramp to Lynchburg NB	0.72									
513737	GRAVES MILL RD	0.25 Ramp to Lynchburg NB	Old Graves Mill Rd (0.80									
513738	GRAVES MILL RD	Old Graves Mill Rd (Maint Bdy Bedford Cn	4.04									
512695	GREENVIEW DR	Maint Bdy Campbell C	E Overbrook Rd (Lync	0.63									
592013	GREENVIEW DR	Maint Bdy Campbell C	Greenview Dr (Lynchb	0.74									

Deficiency Legend:
 1: Pavement (a) Potholes (b) Cracks (c) Other Pavement Distress [i.e.rutting] (d) Pavement Markings (e) Utility Cut Settlement
 2: Shoulders and Curb and Gutter (a) Low Shoulder (b) Curb & Gutter
 3: Roadside (a) Sidewalks (b) Vegetation
 4: Drainage (a) Drainage Issues
 5: Traffic Control and Safety (a) Traffic Control Issue (b) Safety Issue
 6: Structures (a) Structure Maintenance (b) Structure Issues

