

STARS

STRATEGICALLY TARGETED AND
AFFORDABLE ROADWAY SOLUTIONS

CITY OF STAUNTON 10 PSI INTERSECTIONS IMPROVEMENT STUDY

City Council Meeting
June 10th, 2021



AGENDA/STUDY INFORMATION

Introductions

STARS Program

Study Intersections

Study Progress

Johnson Street Intersections

Downtown Beverley Intersections

Augusta/Frederick Street & W. Beverley St/Jefferson St.

West Beverley St & Hays / Grubert Ave Intersections

Next Steps / Schedule



Staunton 10 PSI intersection PROJECT Points of Contact:

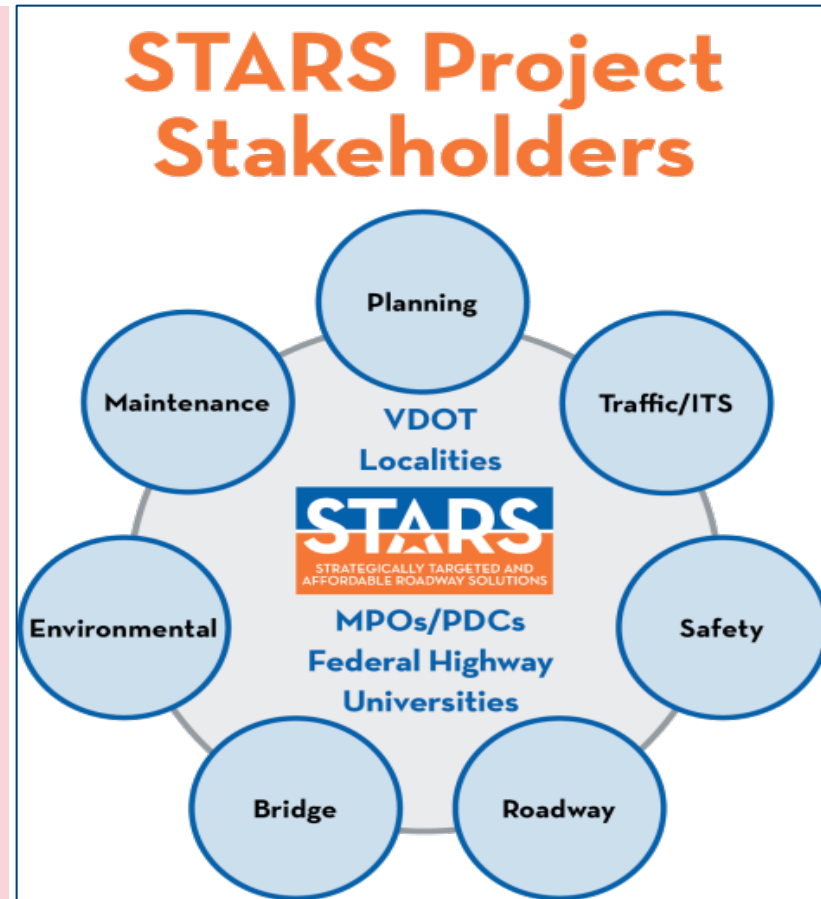
- STARS Program Manager – Bill Guiher
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adamf.campbell@vdot.virginia.gov
- ATCS Team Manager – Nathan Umberger
numberger@atcsplc.com



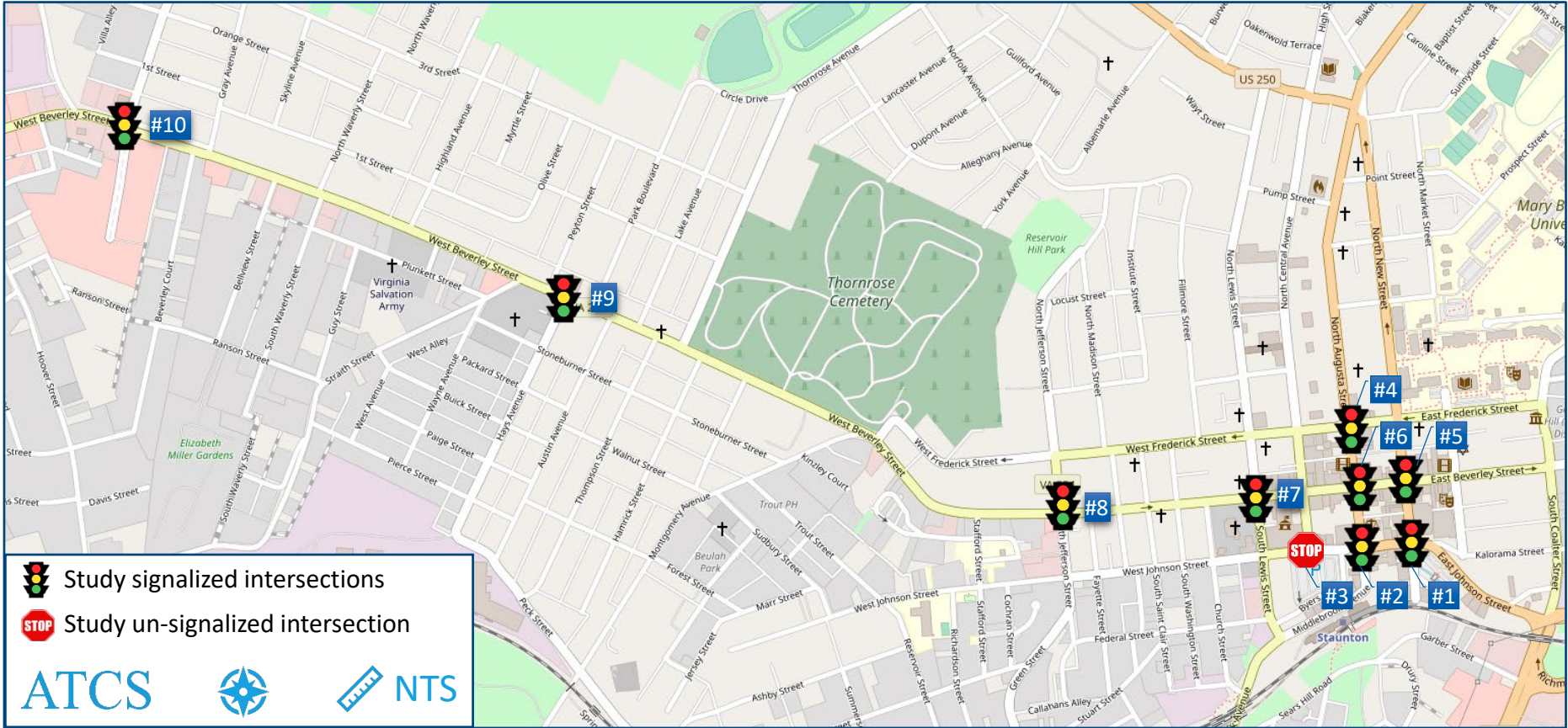
STARS PROGRAM GOALS



- **Strategically Targeted and Affordable Roadway Solutions**
- **Develop alternatives to relieve congestion and solve critical safety challenges for SYIP funding requests**
- **Data driven approach**
- **Involve planners, traffic engineers, safety engineers, roadway designers, and local stakeholders**



STUDY INTERSECTIONS

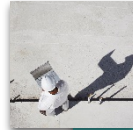


STUDY PROGRESS



COVID-19 Traffic Volume Adjustment

- ⑩ Pre-pandemic traffic volumes compared to during pandemic data
- ⑩ Adjustment rates were proposed based on compared data and engineering judgement



Field Review and Safety Analysis

- ⑩ Crash diagrams prepared
- ⑩ Field review along with VDOT and City staff
- ⑩ FR300 crash reports have been reviewed



Existing Safety and Operational Analysis

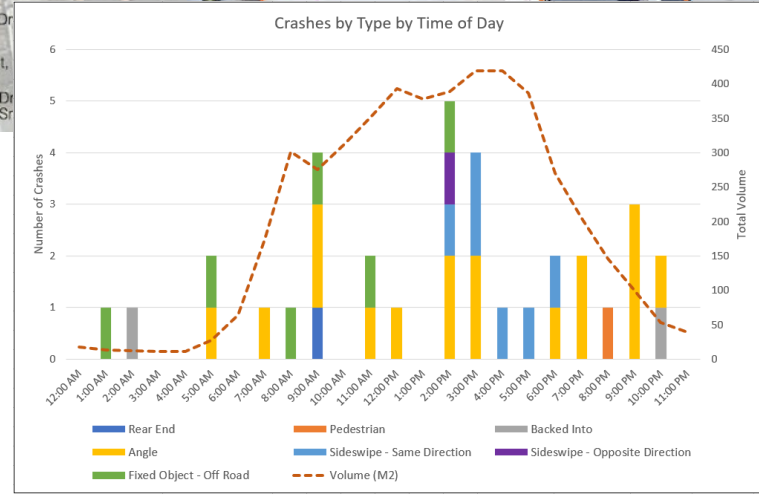
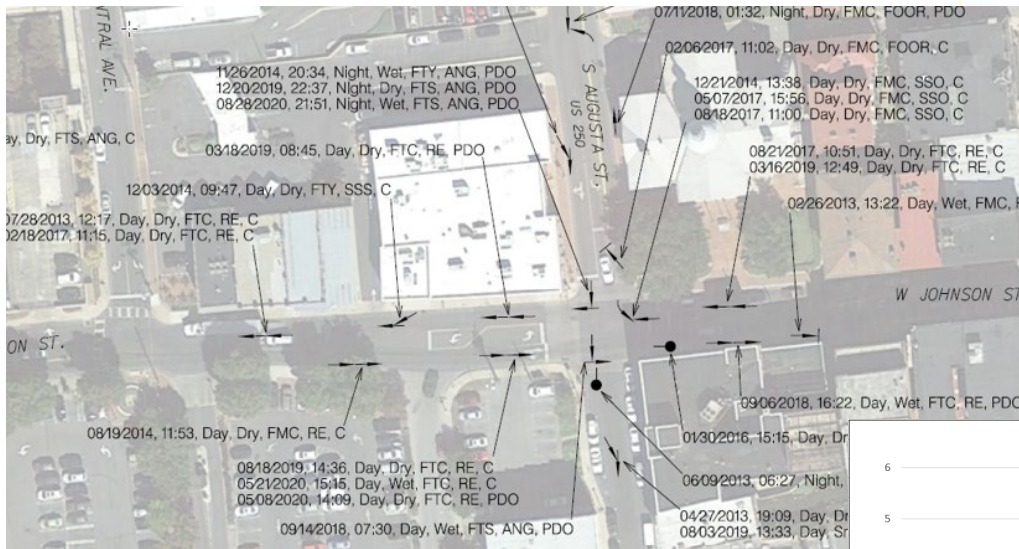
- ⑩ Synchro models developed for adjusted turning movement counts 2020 PM peak
- ⑩ No-Build 2035 model developed



Alternative Development

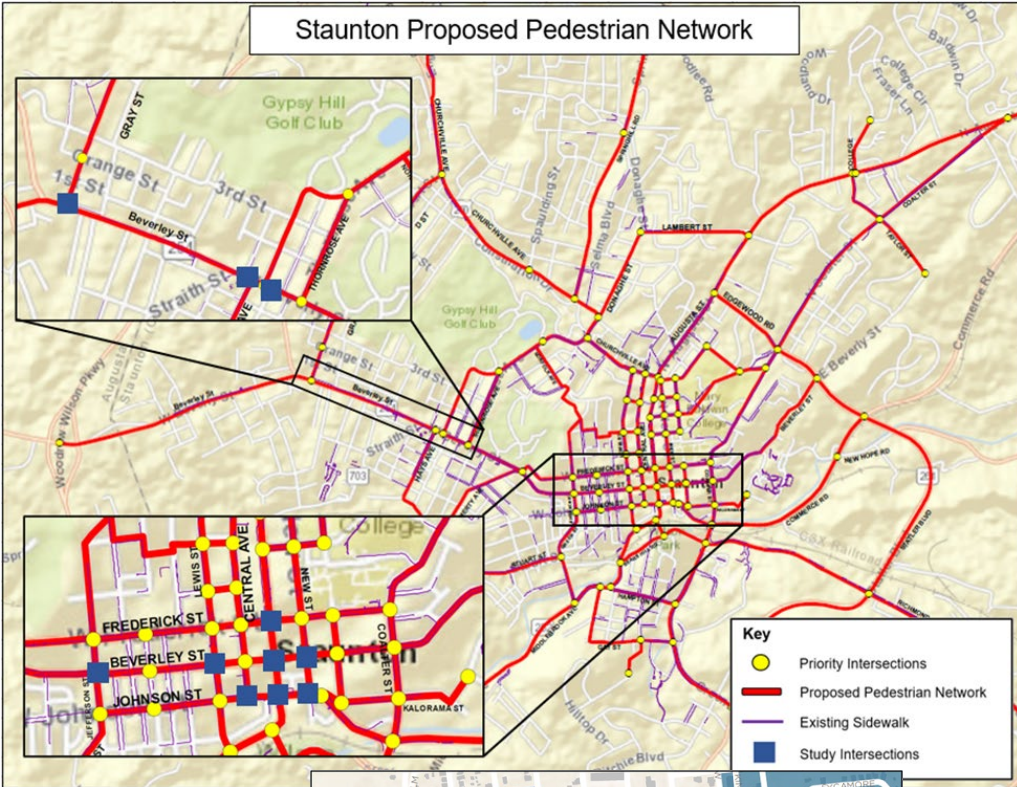
- ⑩ No-Build operational analysis
- ⑩ Preliminary alternative ideas
- ⑩ Alternative operational analysis
- ⑩ Planning Level Cost estimates

STUDY PROGRESS & EFFORTS

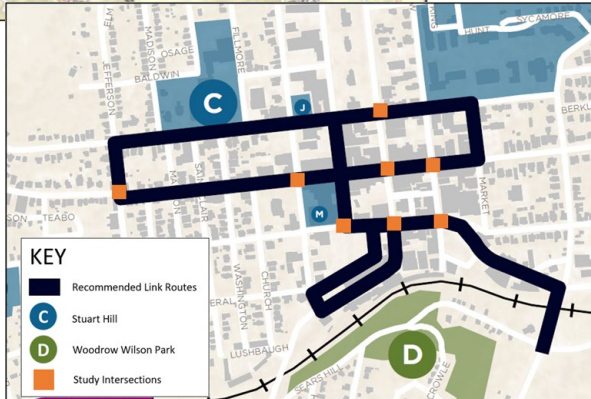
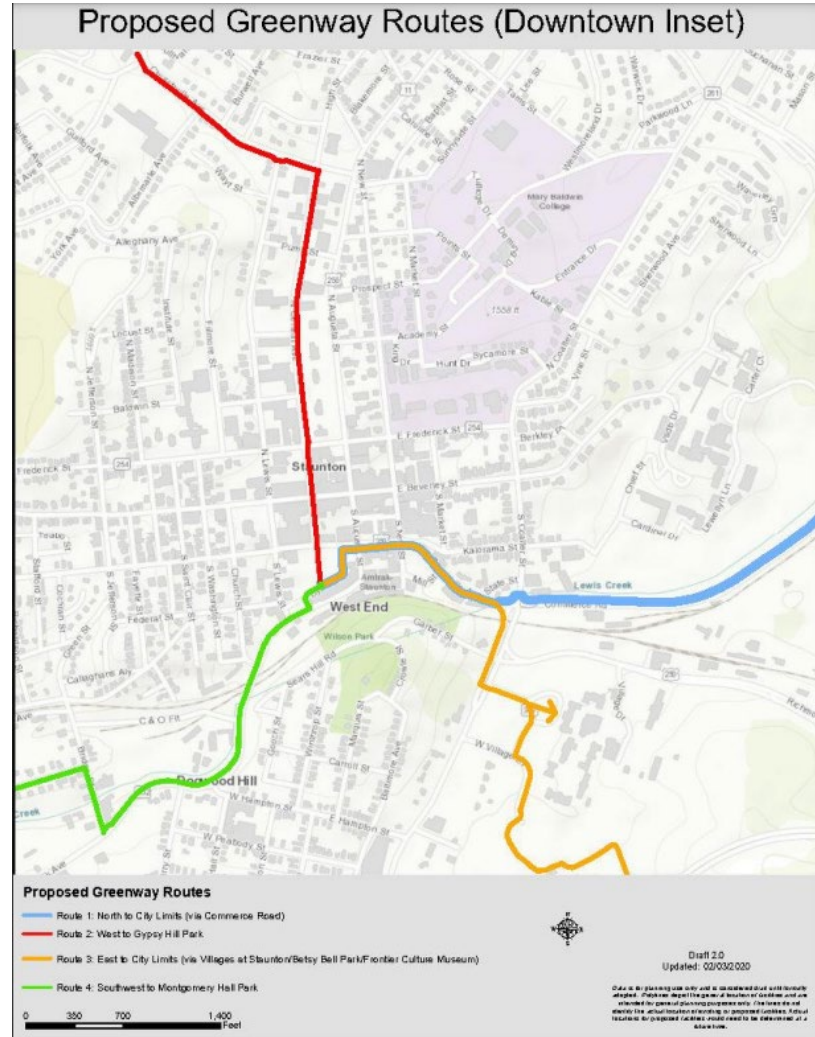


INCORPORATING CITY PLANS

Staunton Proposed Pedestrian Network



Proposed Greenway Routes (Downtown Inset)



JOHNSON STREET INTERSECTIONS



Johnson St. and S New St (1)

District PSI Rank #94



Johnson St. and Augusta St. (2)

Located on top 5% PSAP Segment



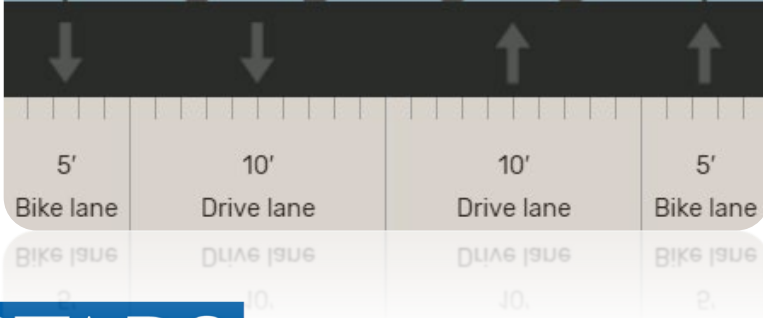
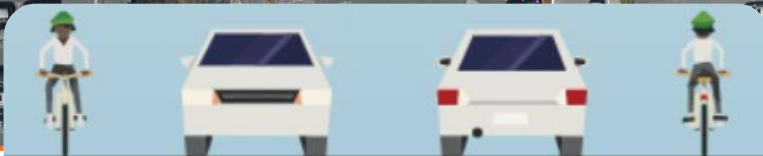
W Johnson St. and N Central Ave. (3)

Located near top 5% PSAP Segment



CORRIDOR MULTI-MODAL IMPROVEMENT

JOHNSON STREET CONCEPT



Key Features

- Bike lanes
- Improved Crosswalks/Pedestrian Accommodations
- Simplified Intersections
- Direct Travel Lanes
- Signal to HAWK Conversion

How to use the HAWK

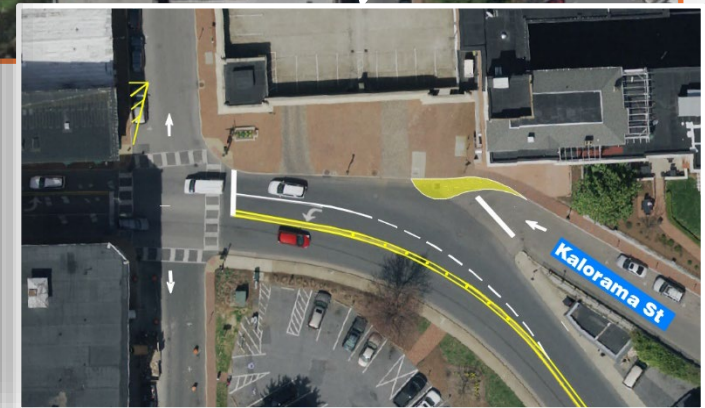
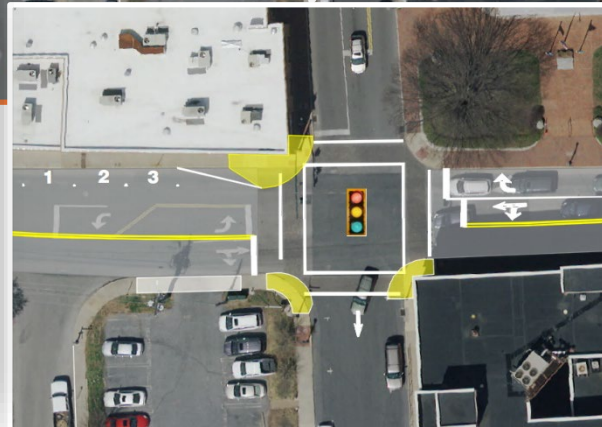
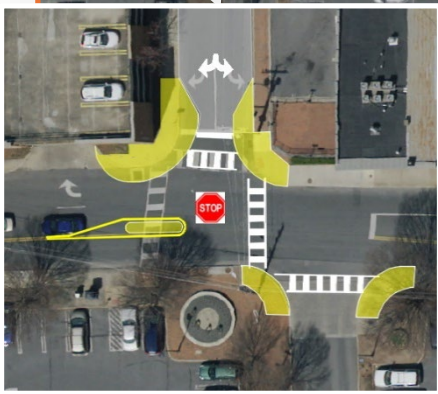
High Intensity Activated Crosswalk

PEDESTRIANS		DRIVERS	
SEE THIS	DO THIS	SEE THIS	DO THIS
	PUSH THE BUTTON		DRIVE
	STOP TO WAIT for the HAWK signal		SLOW DOWN
	START CROSSING		PREPARE TO STOP
	FINISH CROSSING		STOP FIRST

INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT

Key Features

- Turn Lane Improvements
- Geometric Improvements
- Sidewalk Upgrades
- Signing & Marking Revisions



DOWNTOWN BEVERLEY INTERSECTIONS



W Beverley St. and New St. (5)

District PSI Rank #99



Beverley St. and Augusta St. (6)

District PSI Rank #20



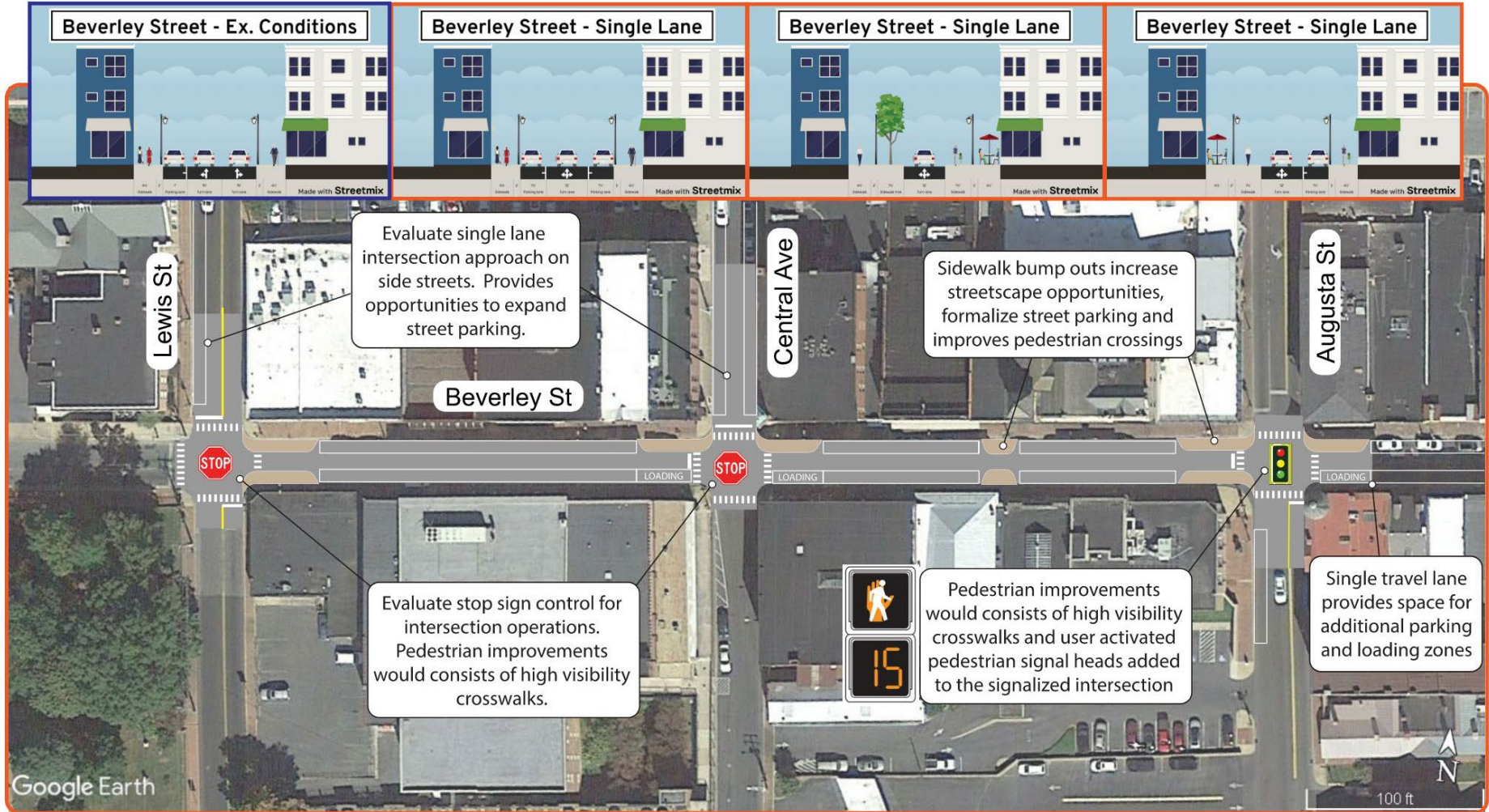
W Beverley St. and N Lewis St. (7)

District PSI Rank #23



CORRIDOR MULTI-MODAL IMPROVEMENT

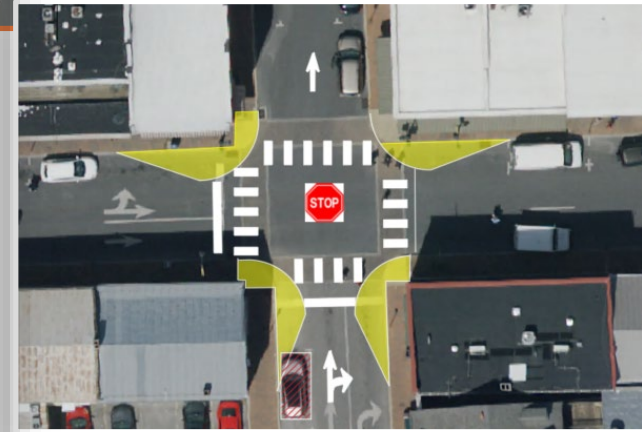
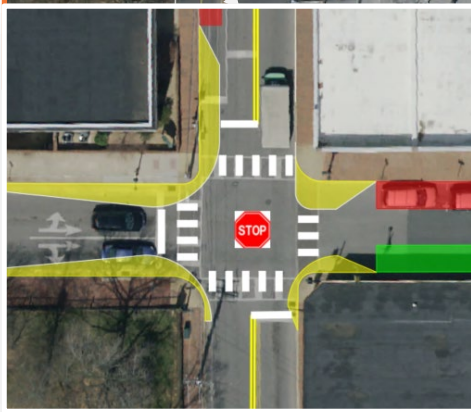
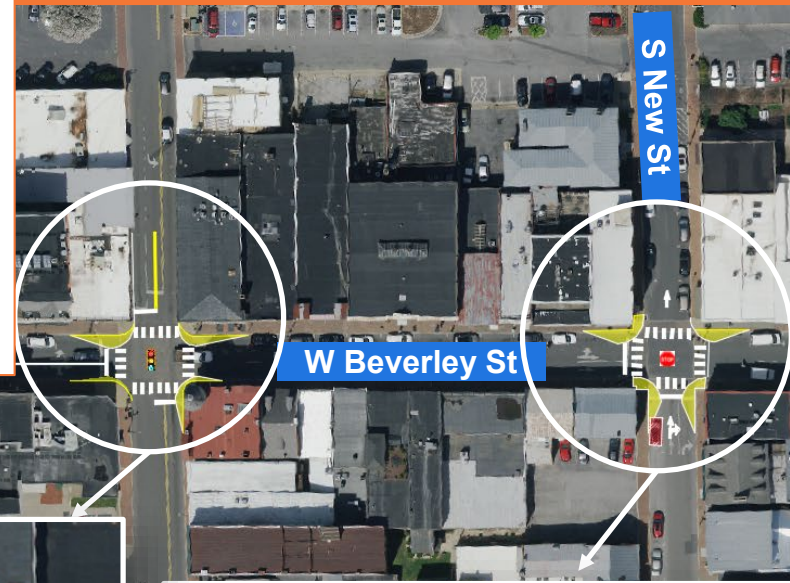
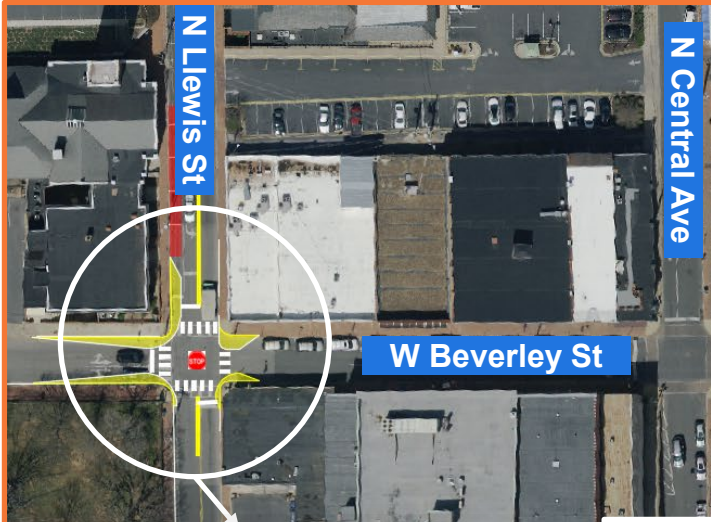
DOWNTOWN BEVERLEY STREET CONCEPT




INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT


Key Features

- Revise Signals to All Way Stops (New/Lewis)
- Intersection Configurations
- Sidewalk Upgrades
- Signing & Marking Revisions



FREDERICK ST. & N AUGUSTA ST. AND WEST BEVERLEY ST & JEFFERSON ST.

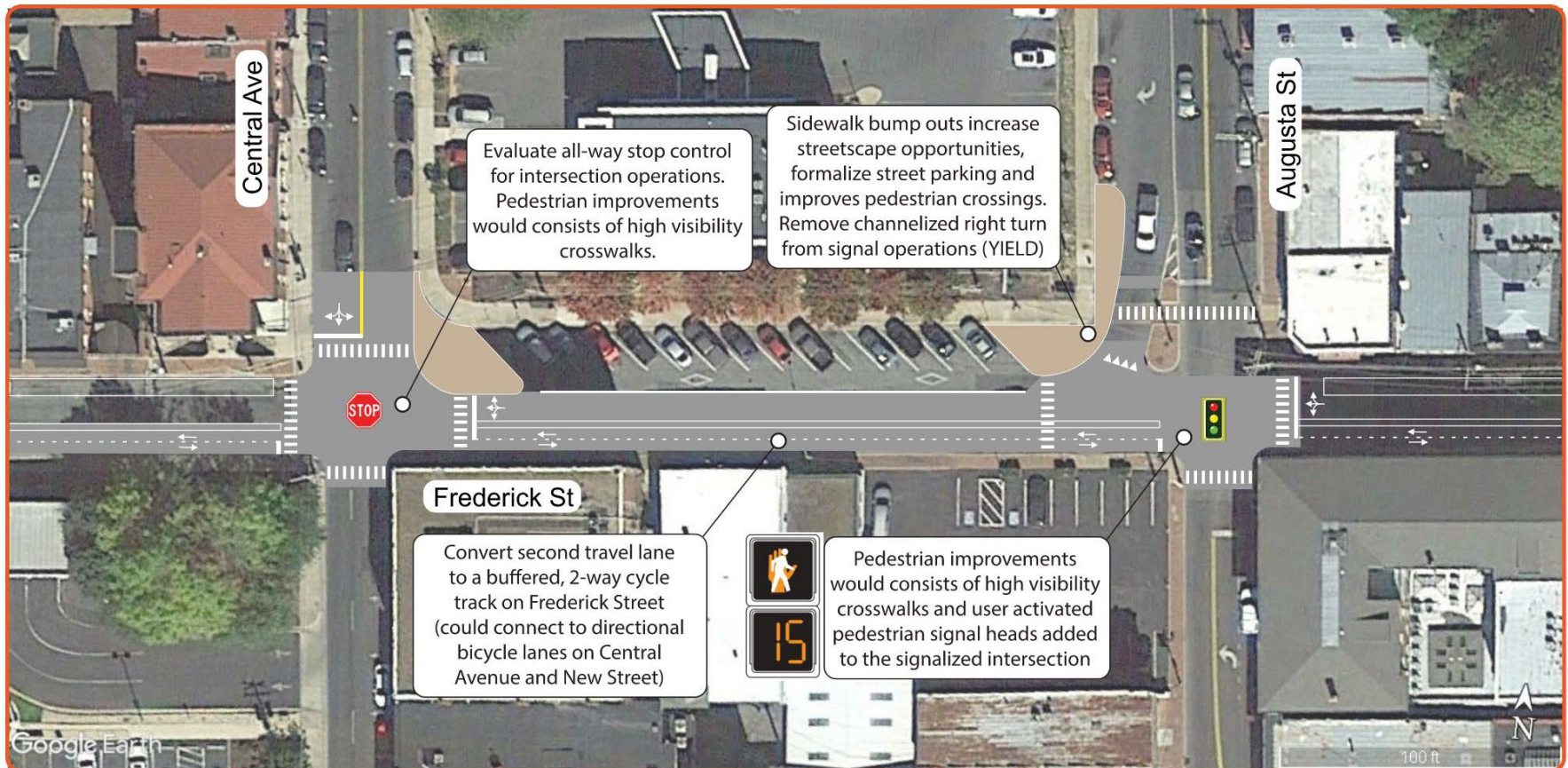
 W Fredrick St. and N Augusta St. (4)
District PSI Rank #161

 W Beverley St. and N. Jefferson St. (8)
District PSI Rank #121



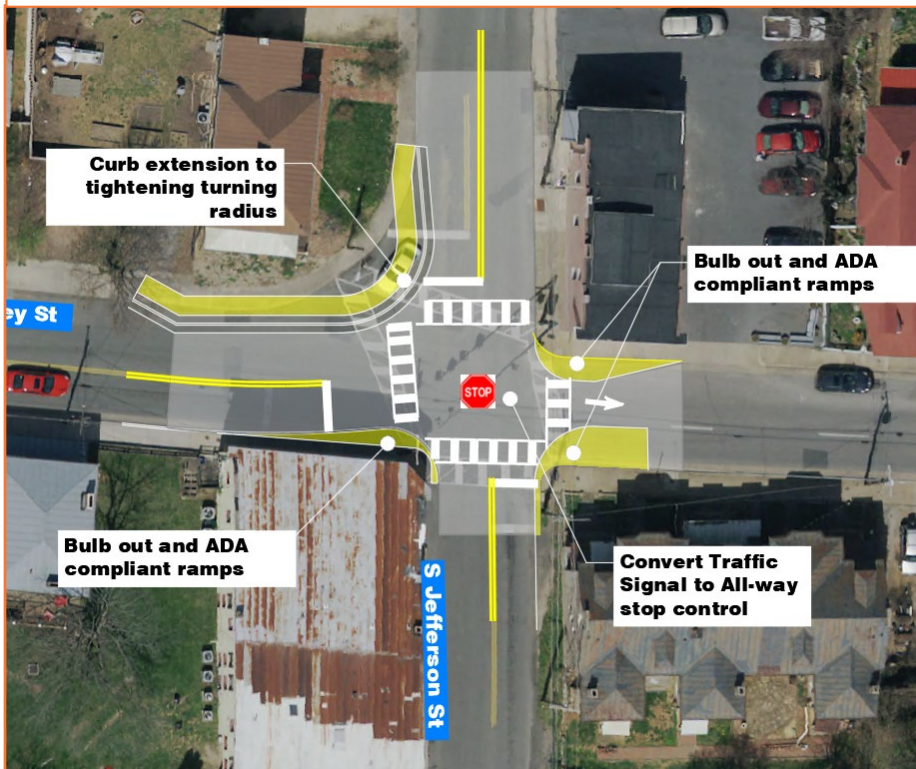
CORRIDOR MULTI-MODAL IMPROVEMENT

WEST FREDRICK STREET CONCEPT



INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT

E BEVERLEY ST & N JEFFERSON ST

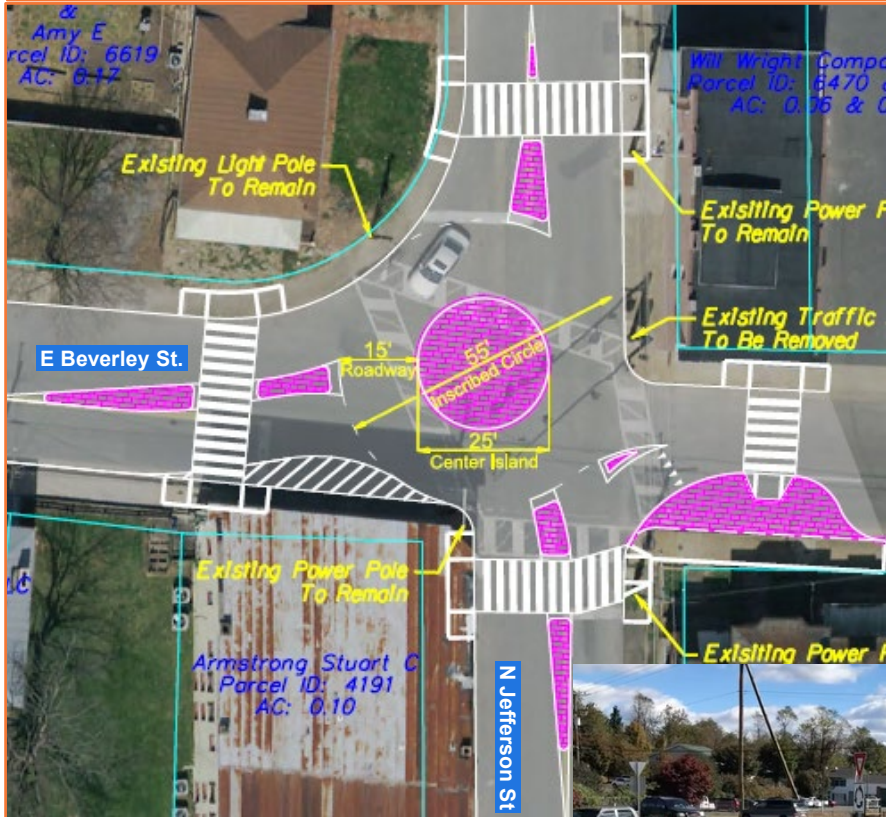


E FREDERICK ST & N AUGUSTA ST

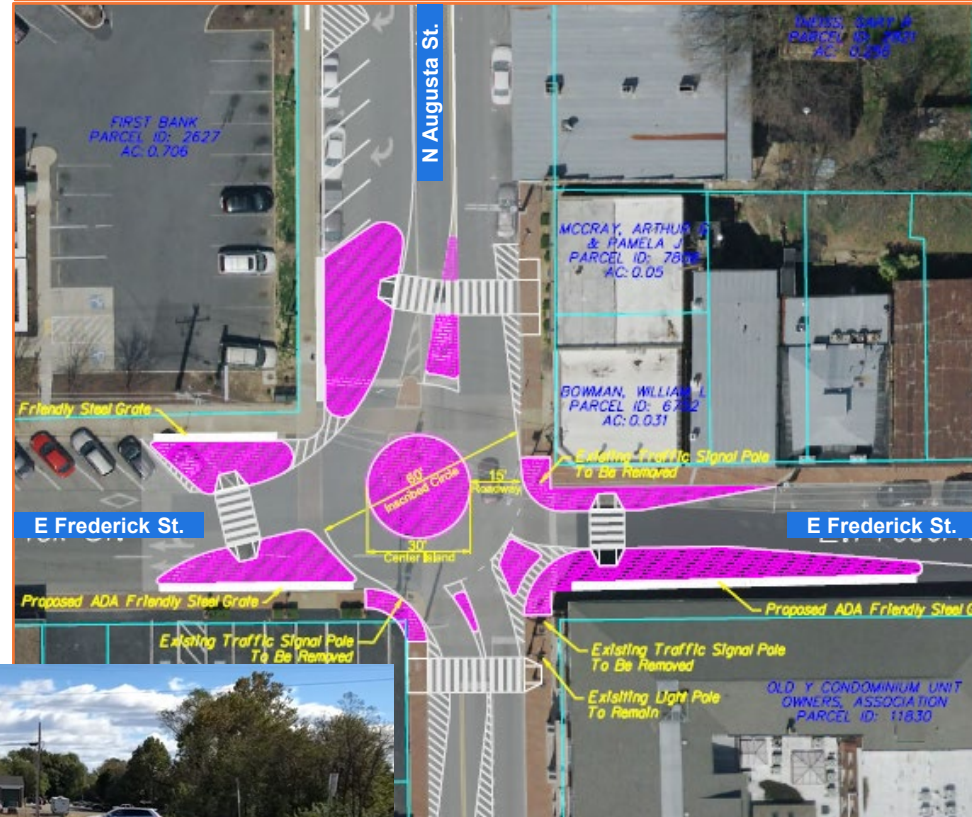


INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT

E BEVERLEY ST & N JEFFERSON ST




E FREDERICK ST & N AUGUSTA ST



WEST BEVERLEY ST & HAYS / GRUBERT AVE INTERSECTIONS

 W Beverley St and Hays Ave. and Park Blvd. (9)
District PSI Rank #159

 W Beverley St. and Grubert Ave. (10)
District PSI Rank #116



INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT

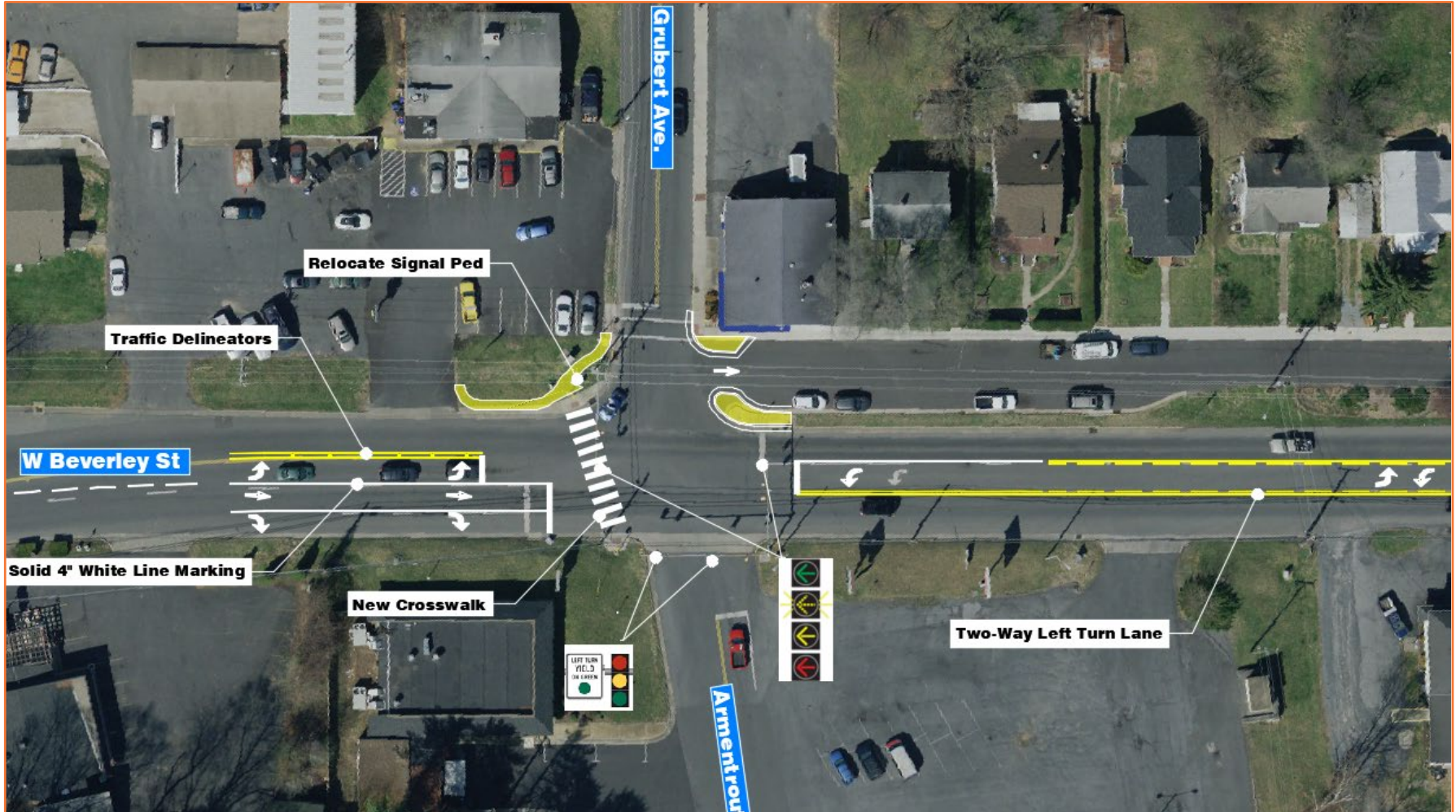
FULL ACCESS AT PARK BLVD.



LIMITED ACCESS AT PARK BLVD.



INTERSECTION SAFETY AND OPERATIONAL IMPROVEMENT



NEXT STEPS / SCHEDULE



 Public Involvement

STARS

STRATEGICALLY TARGETED AND
AFFORDABLE ROADWAY SOLUTIONS

QUESTIONS/COMMENTS?

Thank you!

