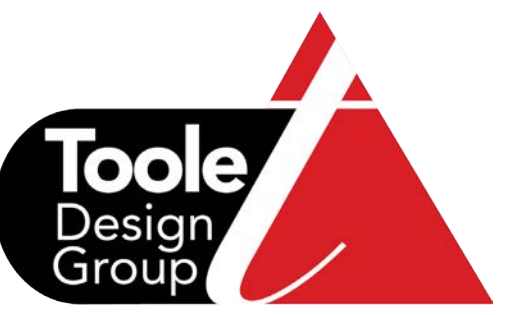
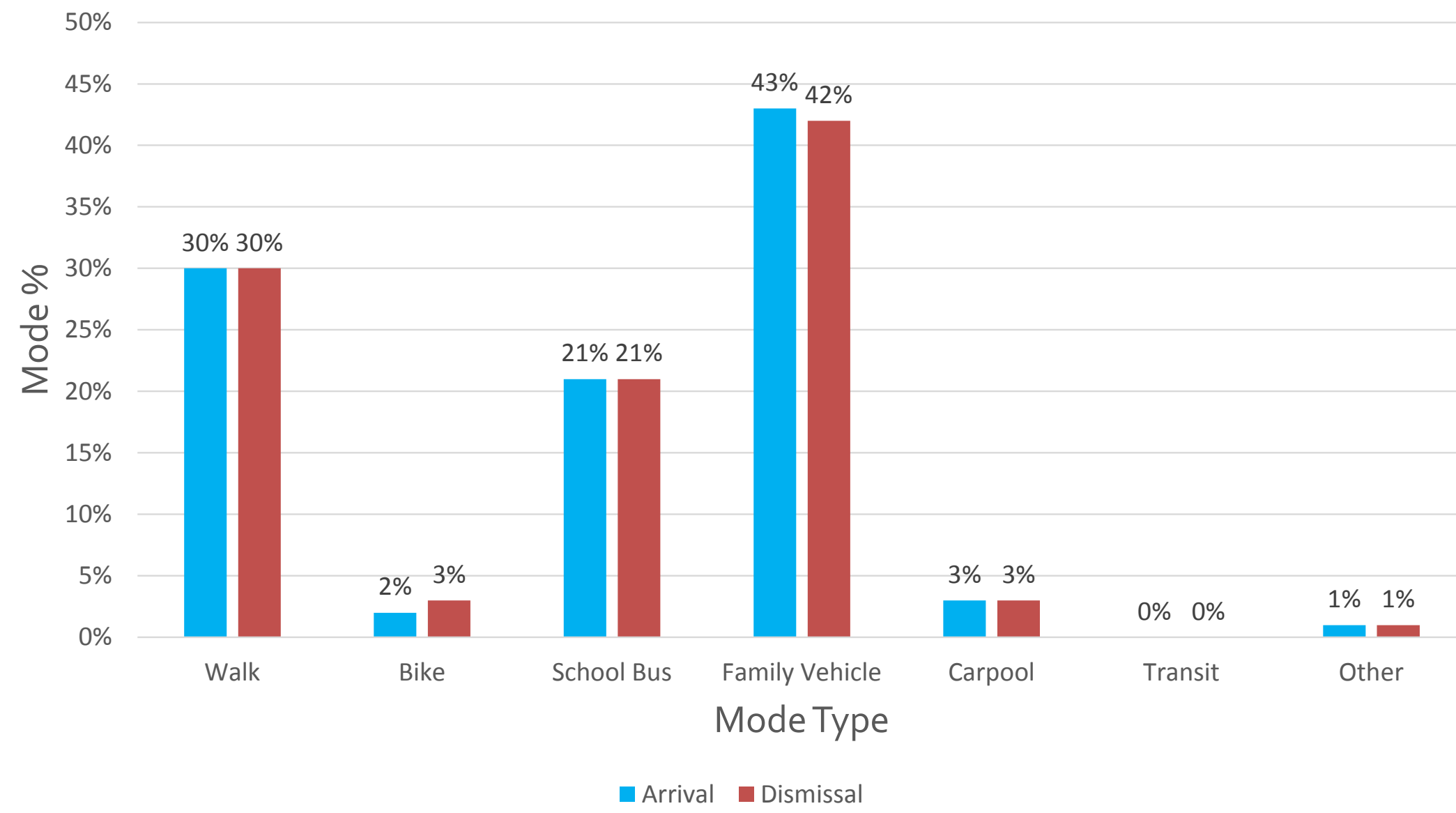


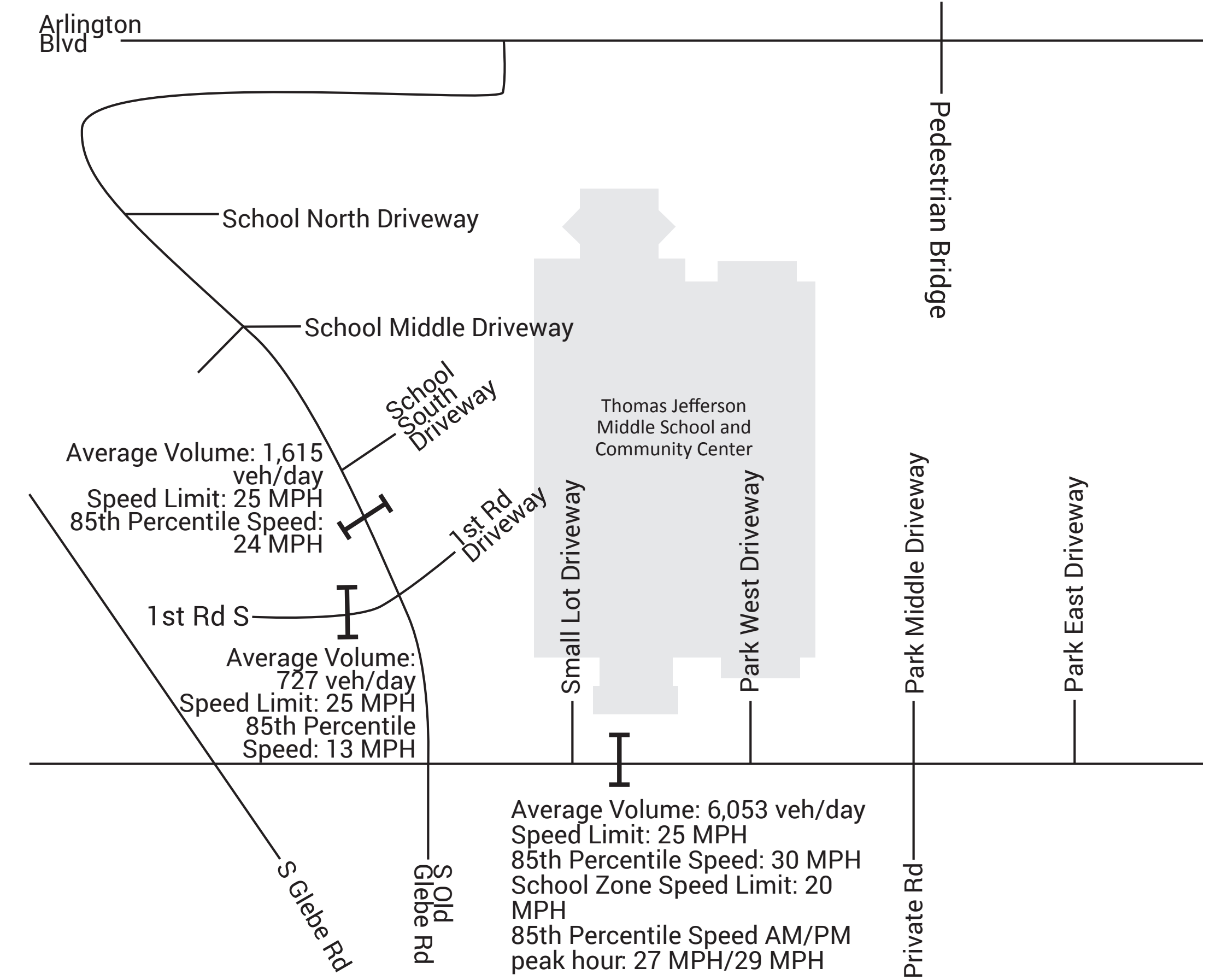
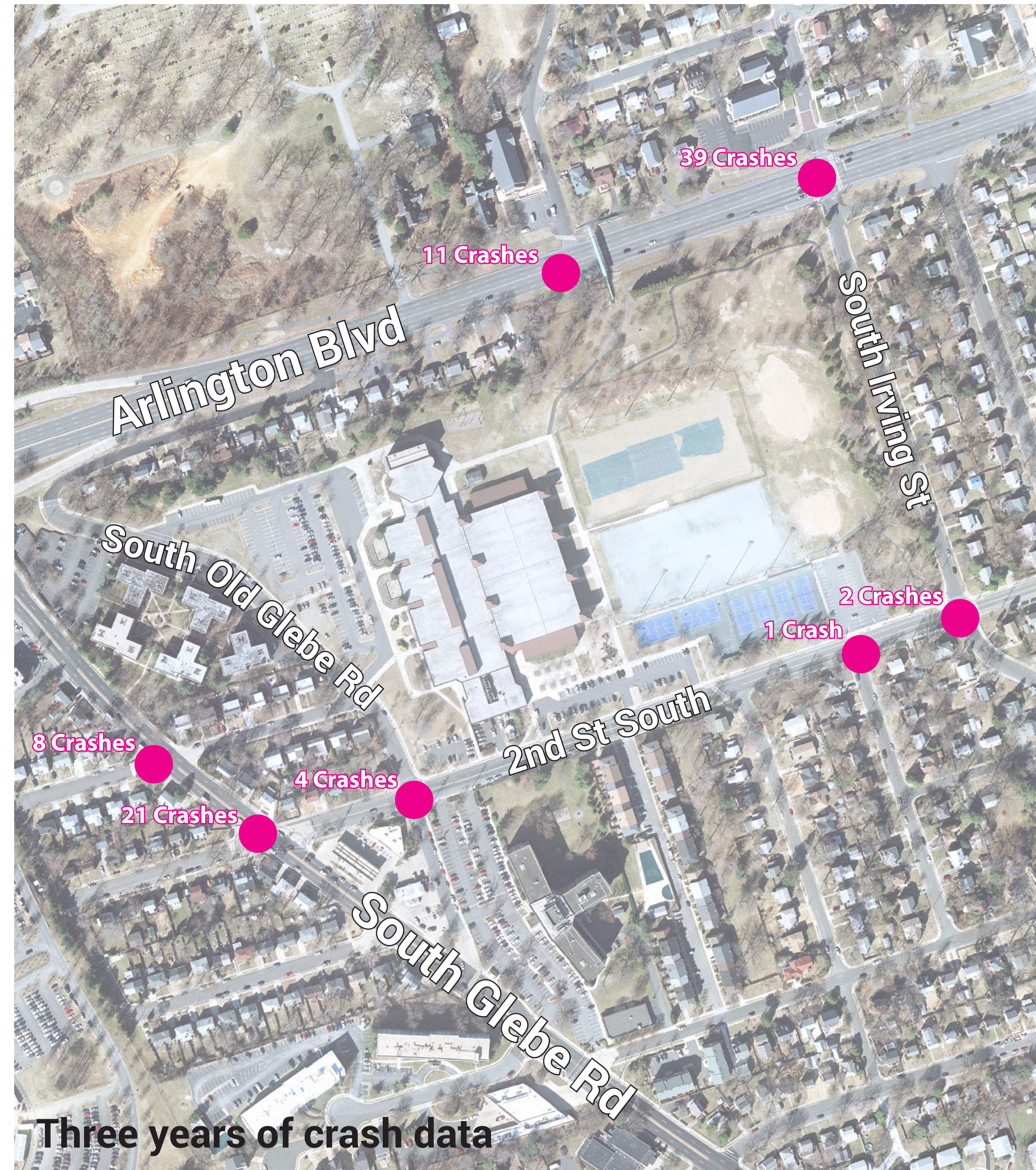
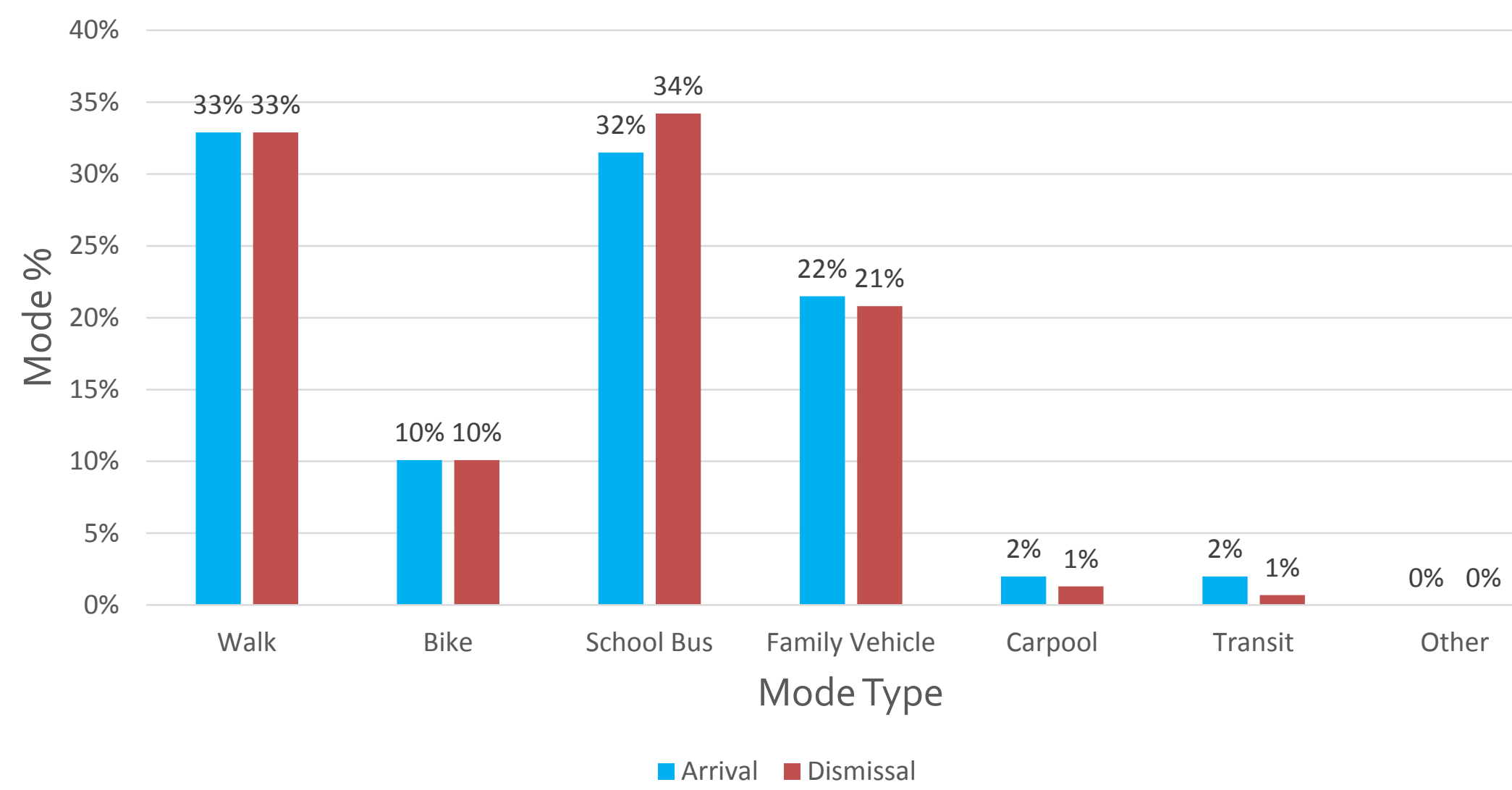
# NEW ELEMENTARY SCHOOL AT THOMAS JEFFERSON SITE : MULTIMODAL TRANSPORTATION



## Patrick Henry ES



## Thomas Jefferson MS



- Student and staff surveys from 2014
- Additional student surveys in 2013 & 2015
- Survey data reviewed for Thomas Jefferson, Patrick Henry, and all APS neighborhood middle and elementary schools

- Crash data doesn't capture near-misses or close calls
- Highest crash rate on Arlington Boulevard and Glebe Road; typical of high-volume roads
- Seven pedestrian-involved crashes
- Two bicyclist-involved crashes

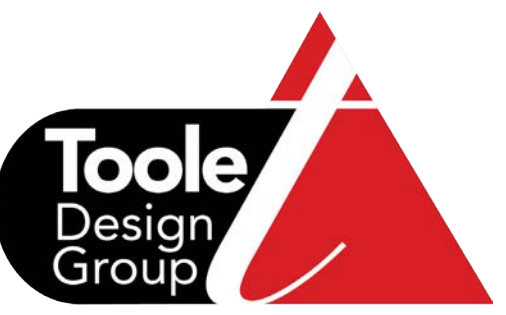
- Speed data collected on South Old Glebe, 1st Road South, and 2nd Street South
- Analysis reviewed 85th percentile speeds (the speed that 85% of people do not exceed)
- Speeding documented on 2nd Street South during arrival and dismissal

## STUDENT TRAVEL SURVEYS

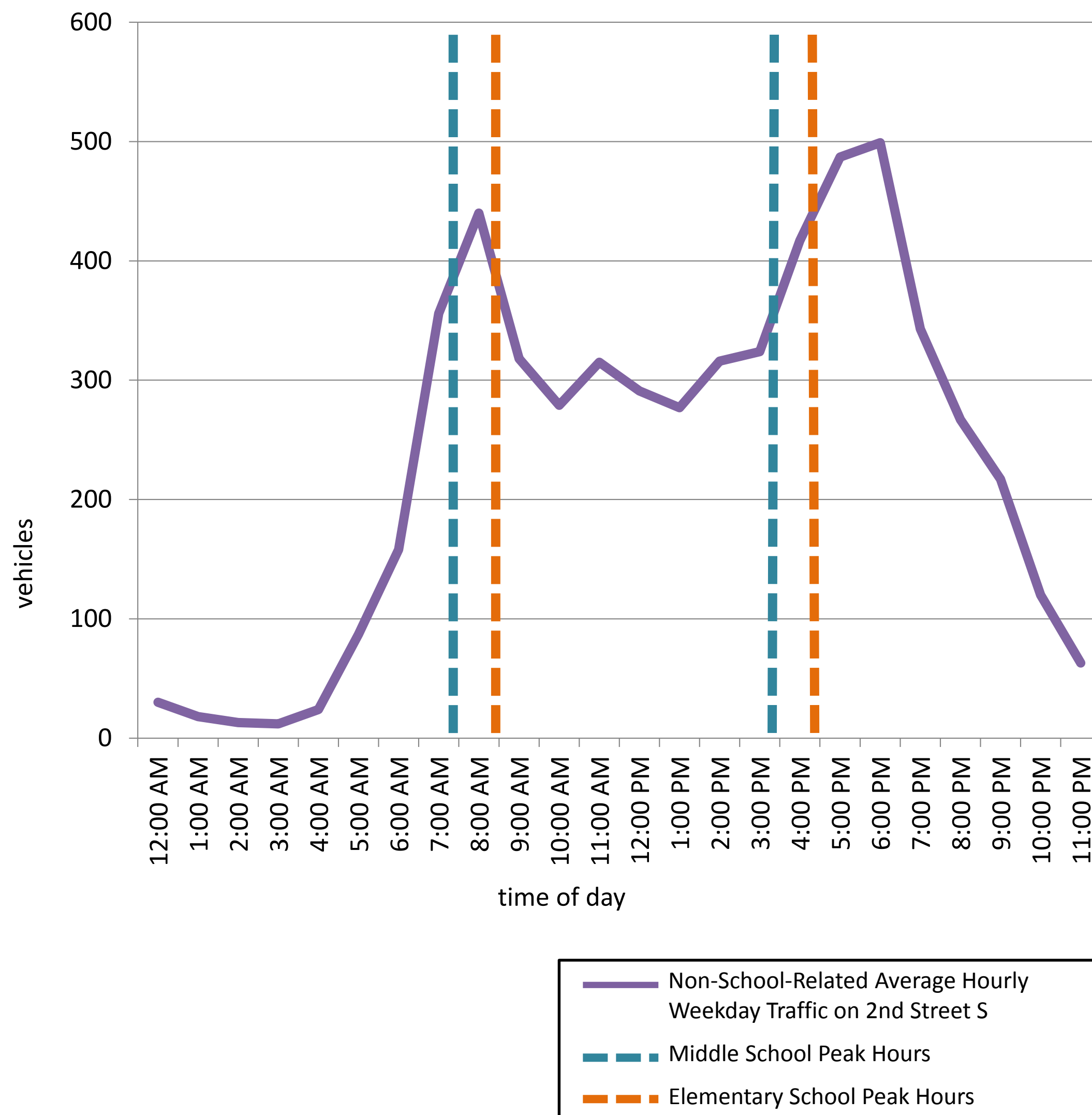
## CRASH MAP

## VEHICLE SPEEDS

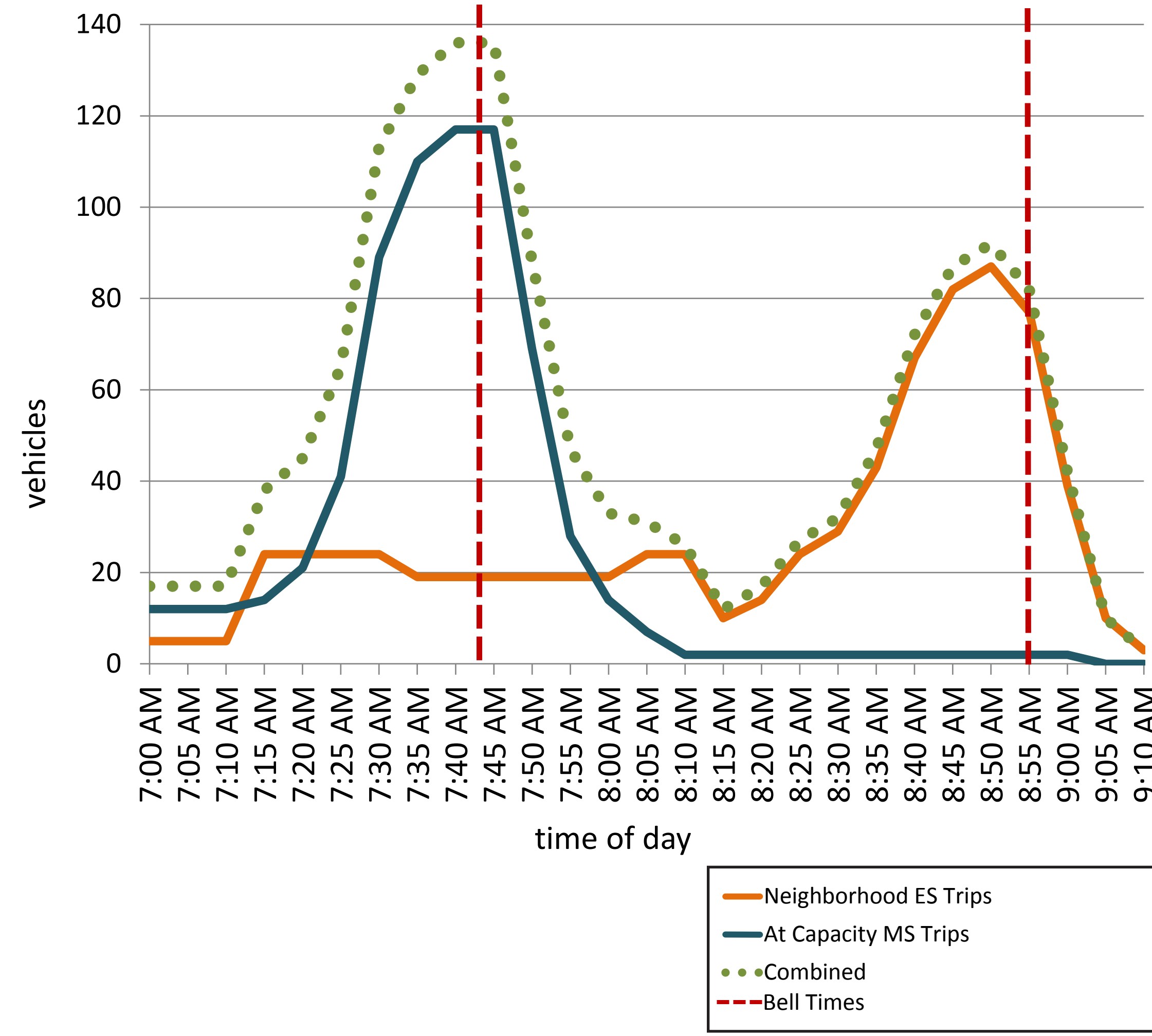
# NEW ELEMENTARY SCHOOL AT THOMAS JEFFERSON SITE : MULTIMODAL TRANSPORTATION



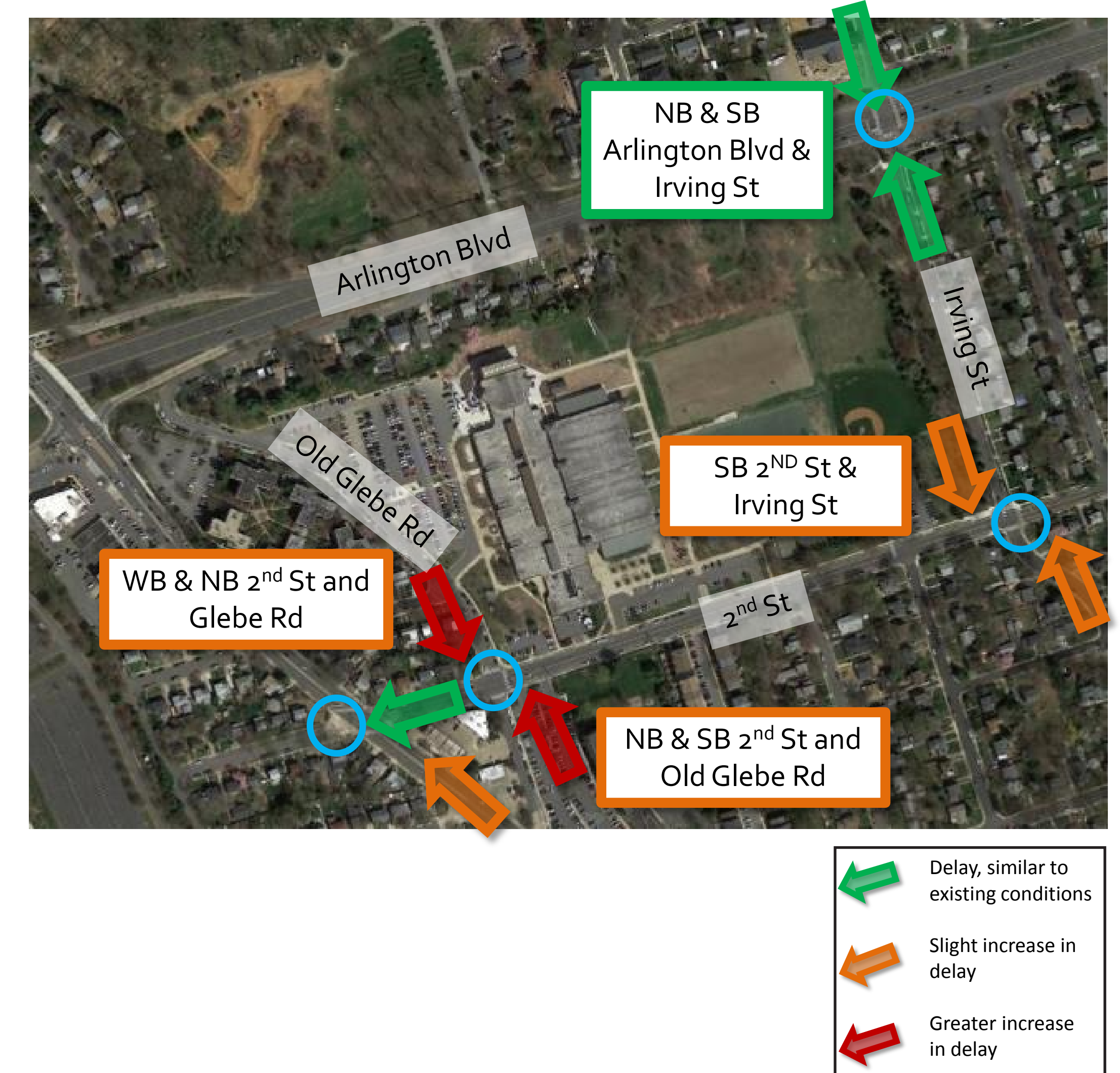
### School Bell Times and Non-School Traffic



### At-Capacity Middle School & Proposed Elementary School Traffic Pattern



### Locations Experiencing Vehicle Delay During New ES Arrival, Assuming No Transportation Improvements



Because bell times are offset, traffic impacts are spread out, not concurrent.

The highest levels of school traffic will occur during morning arrival.

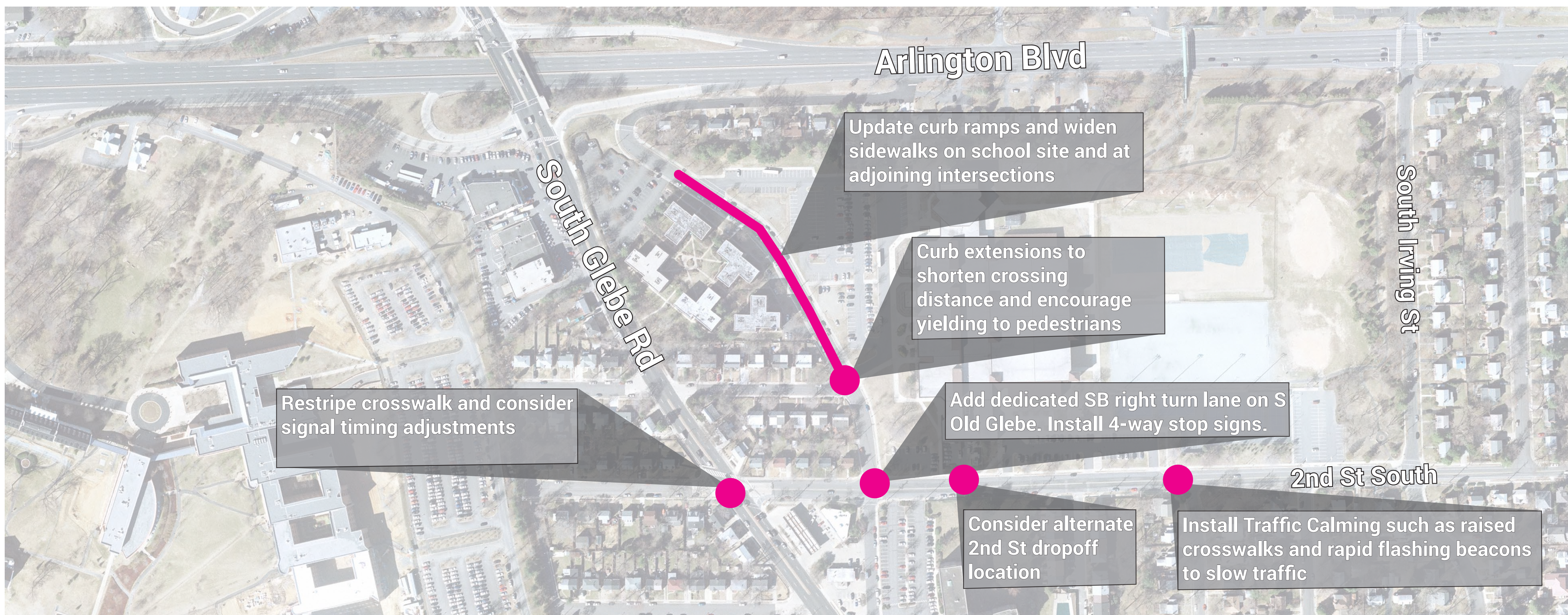
This map shows anticipated vehicle delay after the new ES is complete, assuming no transportation improvements. The intersection of South Old Glebe and Second Street experiences the greatest increase in vehicle delay.

**NON-SCHOOL-RELATED TRAFFIC AND SCHOOL PEAK HOURS**

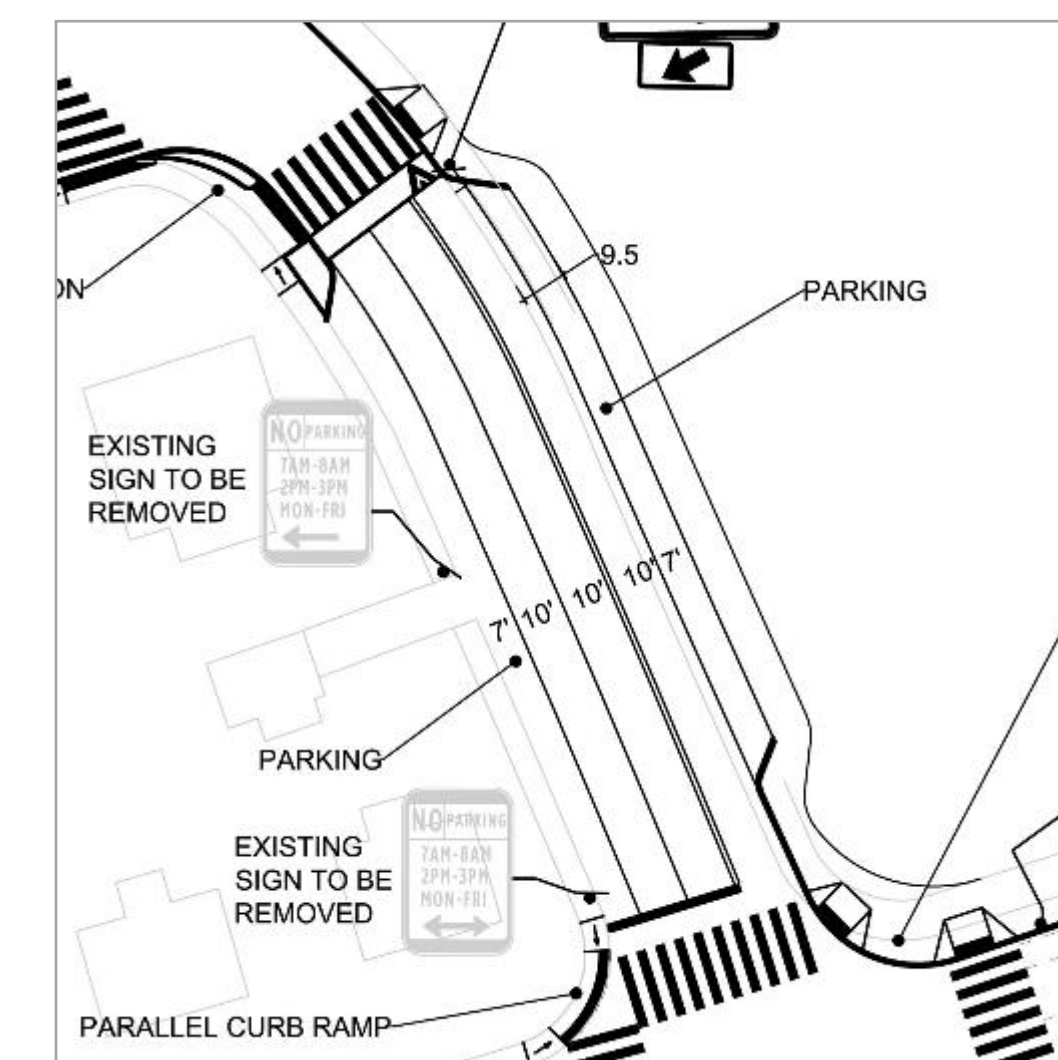
**MIDDLE AND ELEMENTARY SCHOOL TRAFFIC VOLUME : ARRIVAL**

**FUTURE ARRIVAL CONDITION**

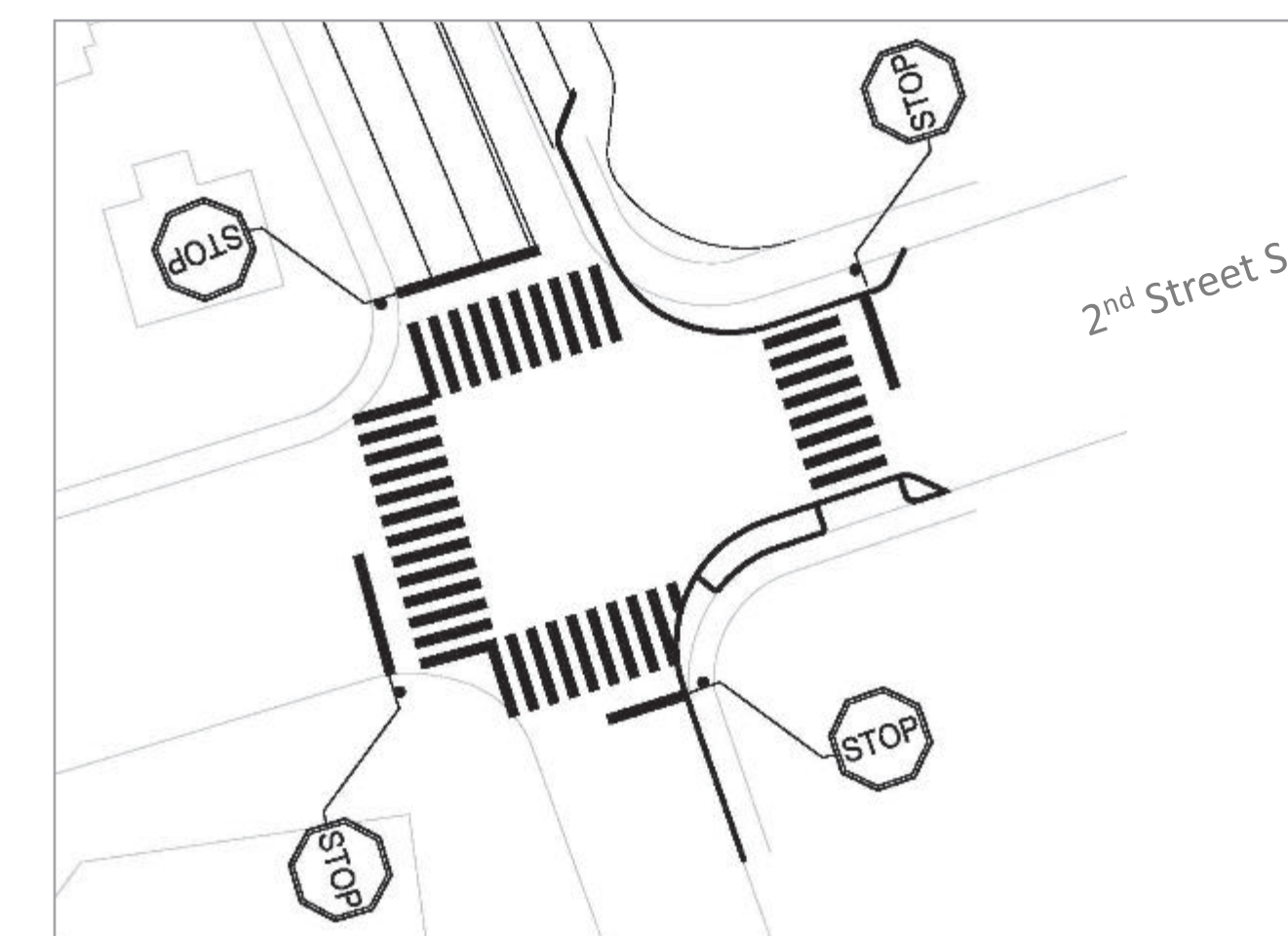
# NEW ELEMENTARY SCHOOL AT THOMAS JEFFERSON SITE : MULTIMODAL TRANSPORTATION



## Proposed Near-term APS/County Projects



Southbound right turn lane on South Old Glebe



Four-way stop sign at South Old Glebe and 2nd Street South

## Proposed Longer-term County Projects include:

- Potentially closing western driveway of Dominion Arms parking lot.
- Replacing/repairing sidewalk on west side of South Old Glebe and south side of 2nd Street to provide 4' clear width, address heaves and provide universal access.
- Installing sidewalk and improve trail along Route 50 to provide improved connectivity along north side of site; improve bus stop access.
- Improving traction in cold and wet weather on the Route 50 pedestrian bridge. Adding edge striping to trail at bridge entrance to improve visibility in low light conditions.

## OFF-SITE TRANSPORTATION RECOMMENDATIONS

# NEW ELEMENTARY SCHOOL AT THOMAS JEFFERSON SITE : MULTIMODAL TRANSPORTATION

1. Maximize safety for all students, staff, visitors, and community members as they travel to and from the site.
2. Provide universal accessibility for students and staff with disabilities.
3. Support safe walking, biking and school bus circulation in order to reduce auto trips to and from the school. For staff, also support carpooling and transit use.
4. Mitigate congestion related to school travel.
5. Address vehicle speeding near the school, particularly on 2nd Street S.
6. Provide an appropriate amount of parking to meet the site needs.

