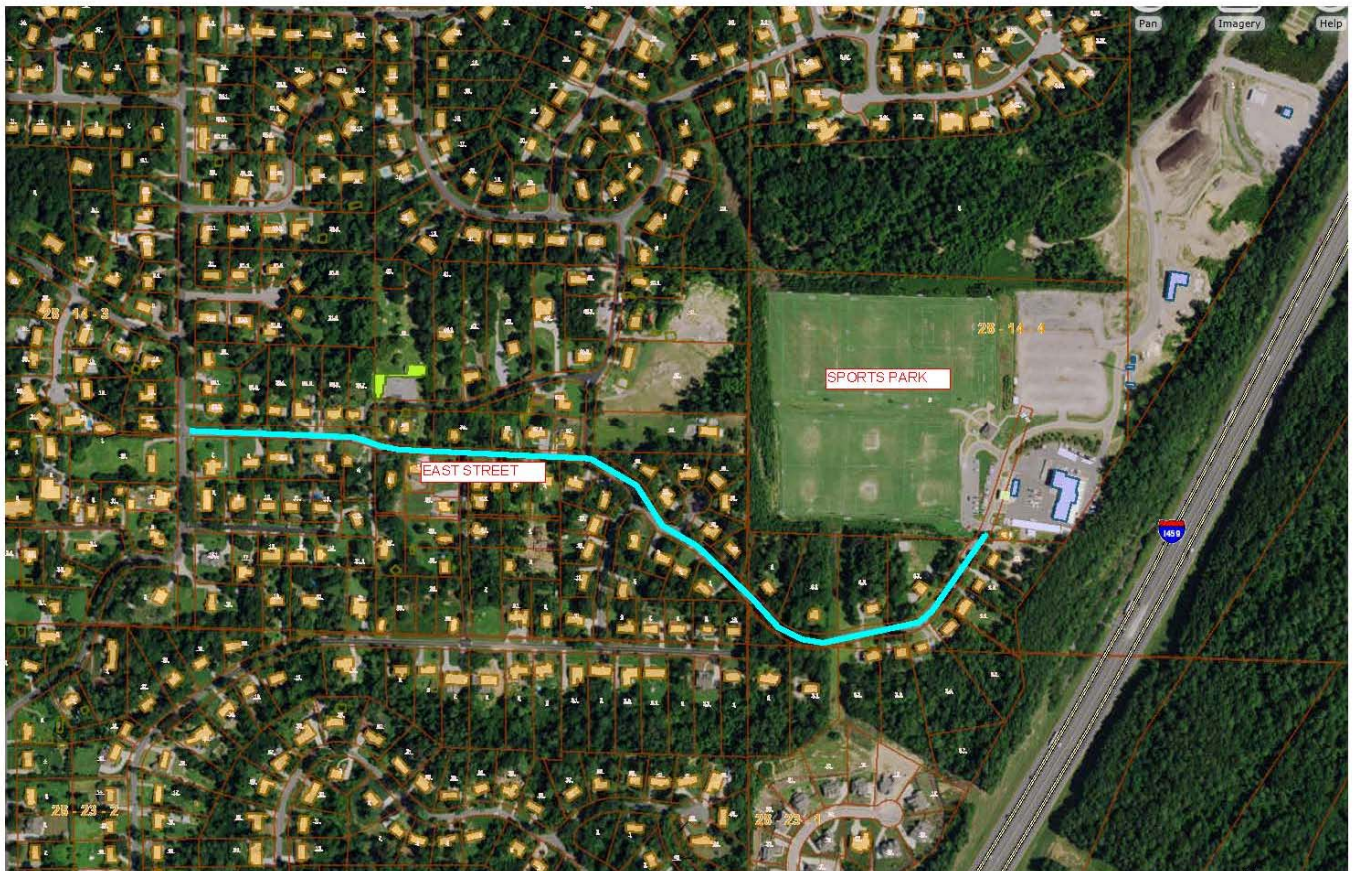


Data Collection Summary
East Street
Vestavia Hills, Alabama
April 10, 2018



Traffic volumes and speed data were collected along East Street in two different locations and are summarized in this document in an effort to help address the following:

1. To compare the current volume data to projected traffic volumes generated as part of a Traffic Study conducted during the development of the Rathmell Sports Park by Gonzalez-Strength & Associates in January 2004 for the City of Mountain Brook. The 2004 study concluded that no roadway widening was required based on design speed (25 mph) or projected traffic volumes and that no additional roadway improvements were needed to support the projected traffic. By comparing the study to current data, we can determine if the current volumes are within the study's projected range or if the study's projected volumes are being exceeded. In other words, this will help evaluate if current road conditions are suitable for the amount of traffic that utilizes it.
2. Determine if traffic calming measures are warranted based on current conditions.
3. Determine if other roadway improvement measures need to be explored.

Existing Roadways

East Street is a two-lane, residential roadway running generally east to west with a posted speed limit of 15 mph. There are several streets that intersect with East Street: White Oak Drive, Goodwin Street, Overheights Drive, Nazha Lane, and Nazha Circle

Existing Traffic Volumes

Seven-day, 24-hour bi-directional counts were collected in two different locations from Monday, February 26, 2018 through Sunday, March 4, 2018. One counter was located between White Oak Drive and Overheights Drive, and the second counter was located between Nazha Lane and the Rathmell Sports Park. This week was selected to coincide with BUSA's Spring soccer schedule and to include one of its big tournament weekends. The Red Diamond Classic Soccer Tournament was held March 2-4, 2018. Per BUSA, there are two big soccer tournaments in March, one LaCrosse tournament in April, and one soccer tournament in the fall.

Results and Conclusions

1. Volumes

Current volumes exceeded the 2004 study's projected volumes for the following time periods:

- Saturday (during tournament weekend)
- Sunday (during tournament weekend)
- Tuesdays – PM peak hour only (Daily volume does not exceed 2004 projected volume)

Volumes for all other time periods were less than or very close to PRE-sports park volumes.

Note: Per BUSA, tournaments only affect 4 weekends out of the year.

2. Speeds

- Counter location between Nazha Lane and Rathmell
 - Average speed = 17.7 mph
 - 85th percentile speed = 21.1 mph

Both average speed and 85th percentile speed are within acceptable levels per nationally accepted and industry standard traffic calming criteria for a 15 mph speed zone.

- Counter location between White Oak Drive and Overheights Drive
 - Average speed = 24.8 mph
 - 85th percentile speed = 29.4 mph

Both average speed and 85th percentile speed exceed acceptable levels per nationally accepted and industry standard traffic calming criteria for a 15 mph speed zone but are within acceptable levels for a 20 mph or 25 mph speed zone.

Based on speed data collected as well as comparison to all other residential streets within the City, it appears this speed limit may not be realistic. Unrealistic speeds pose safety concerns as they can encourage drivers to actually go faster and may not be legally enforceable.

Traffic calming measures are only warranted based on a 15 mph speed.

Improvement Options to Potentially Consider

1. Discuss practice schedules with BUSA to see if practice times can be adjusted to reduce Tuesday evening traffic.
2. Install sidewalks along East Street to separate pedestrians from the travel lanes to improve safety and make pedestrian trips more viable and desirable.
3. Consider targeted enforcement during tournament weekends to reduce travel speeds during those high-volume time days (need to discuss with Police Department).
4. Install signage with radar that displays speed traveling to reduce travel speeds.