



MEMORANDUM

To: Mayor and Members of the City Council

From: Montre' D. Freeman, City Manager
J. Phillip Webster, Chief of Police

Date: November 22, 2023

Ref: Update – Six-Month Follow-Up on Traffic Study in 1200-1300 Block of West Church Street

BACKGROUND:

The Elizabeth City Police Department conducted a traffic study in the 1200-1300 block of West Church Street on March 20-27, 2023. Because of the data collected, the City Council directed installation of traffic-calming measures in the roadway of the affected area. According to the City's Traffic Calming Policy, approximately six (6) months after the initial study, a follow-up study is required.

ANALYSIS:

The Elizabeth City Police Department conducted a follow-up traffic study West Church Street on October 30- November 6, 2023, which took place in the same location as the original study.

The counter was positioned at 1209 West Church Street, facing west towards eastbound traffic.

The data revealed the following information:

1. Speed Limit= 25 mph
2. Average Speed= 24.7 mph (down from 28 mph)
3. 85th Percentile for speed= 29 mph (down from 32.0 mph)
4. 85th Percentile vehicle count= 17,637 (down from 18,117)

5. Total vehicle count= 20,749 (down from 21,314) (Incoming 10,983) (Outgoing 9,766)

6. Average daily peak times= 11:00 a.m.-12:00 p.m. and 4:00 p.m.-5:00 p.m.

| | | | |
|---------------------|-------|-------|-----------------|
| Vehicle Size= Small | 182 | .9% | (121 - 0.6%) |
| Medium | 20285 | 97.8% | (20868 - 97.9%) |
| Large | 282 | 1.4% | (325 - 1.5%) |

What is the 85th percentile for speed?

The 85th percentile is the maximum speed that 85% of drivers would not exceed on a given road if there were no stop signs, speed limits, or traffic signals; it is considered the safest speed on the roadway because 85% of the vehicles are naturally at that speed or below it. The majority of drivers drive safely because it is in their own self-interest to remain safe.

After reviewing the follow-up data, we can conclude that traffic on West Church Street has decreased in both speed and volume due to the installation of traffic-calming measures.

STAFF RECOMMENDATION:

For information only. No action requested.



ELIZABETH CITY POLICE DEPARTMENT

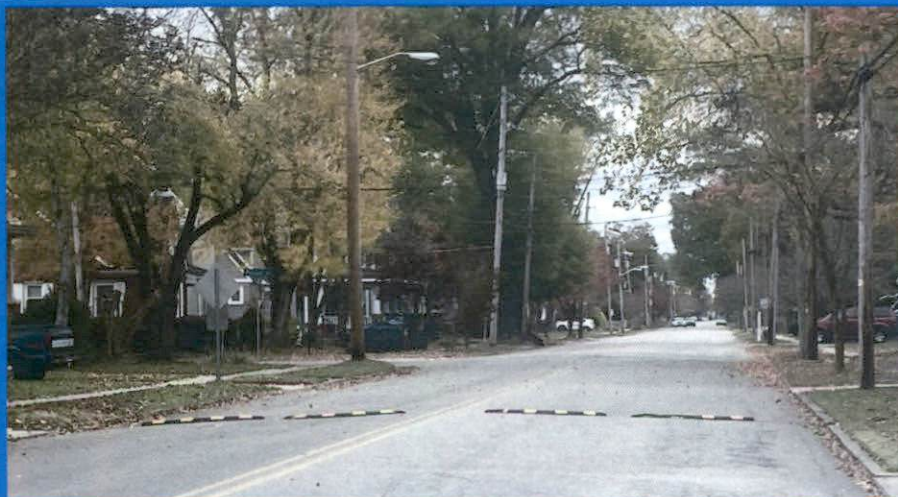


TRAFFIC STUDY UPDATE

W Church Street and Pritchard Street

W CHURCH STREET

OCTOBER 30- NOVEMBER 6, 2023



SPEED

LIMIT 25 MPH

- Average Speed
24.7 mph down from 28mph
- 85th Percentile Speed
29mph down from 32mph

VOLUME

- 85th Percentile Vehicle Count
17,637 down from 18,117
- Total Vehicle Count
20,749 down from 21,314