



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 100-200 Block Pritchard Street

BACKGROUND:

The Elizabeth City Police Department conducted a traffic study in the 100-200 block of Pritchard Street on March 9-16, 2023. Because of the data collected, the City Council directed installation of traffic-calming measures in the roadway of the affected area on Pritchard Street. 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 on Pritchard Street October 16-23, 2023, which took place in the same location as the original study.

The traffic counter was positioned at 213 Pritchard Street, facing north towards southbound traffic.

The data revealed the following information:

1. Speed Limit= 25 mph
2. Average Speed= 22.3 mph (down from 26.00 mph)
3. 85th Percentile for speed= 27 mph (down from 31.0 mph)
4. 85th Percentile vehicle count= 7,527 (down from 9,305)

5. Total vehicle count- 8,855 (down from 10,947)

6. Average daily peak time= 11:00-12:00 p.m. and 5:00-6:00 p.m. (changed from the previous study, which had peaks of 7:00-8:00 a.m. and 4:00-5:00 p.m.)

Vehicle Size= Small	210	2.4%	(160 -1.5%)
Medium	8495	95.9%	(10649 - 97.3%)
Large	150	1.7%	(138 -1.3%)

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 data, we can conclude that traffic on Pritchard Street has decreased in both speed and volume due to the installation of traffic-calming measures.

STAFF RECOMMENDATION:

For information only. No action requested.

PRITCHARD STREET

OCTOBER 16-23, 2023



SPEED

LIMIT 25 MPH

- Average Speed
22.3 mph down from 26mph
- 85th Percentile Speed
27 mph down from 31 mph

VOLUME

- 85th Percentile Vehicle Count

7,527 down from 9,305

- Total Vehicle Count

8,855 down from 10,947

QUESTION?