
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: John Zarafonitis, Seasonal Engineering Aide
DATE: Friday, August 15, 2014
SUBJECT: 7 Day Speed Study of E. Eighth Street, 600 Block between Franklin St. and Railroad Ave.

City Engineering performed an on-site 7 day speed count beginning Thursday, August 7, 2014 at 9 am until Thursday, August 14, 2014 at 11 am on the 600 block of E. Eighth St. This memo is to formalize City Engineering's initial findings and observations with regard to the speeds of vehicles on the 600 block of E. Eighth St.

The data was gathered using a Jamar Radar Recorder which collected traffic data, including vehicle speed, for each lane of traffic (eastbound and westbound). This information was then analyzed and the data for each lane compiled into one report, regardless of direction, using TraxPro. The TraxPro report organized the speeds of the vehicles into groups based on 5 mile per hour increments, starting with 0-15 miles per hour. The report shows how many vehicles were within the specified speed range during the time indicated by the report.

During the 7 day study, 110,215 vehicles were recorded on this section of E. Eighth St. with about 65 percent of the vehicles traveling between 26 and 35 miles per hour. The average speed of vehicles was 29 miles per hour. 15,604 of these vehicles, about 14 percent, were recorded going speeds below the posted speed limit of 25 miles per hour. The total percentage of enforceable violations was about 50 percent.

Summary:

- Speed Limit: 25 mph
- Number of Recorded Vehicles (7 Days): 110,215
- Percent of Vehicles Under Speed Limit: 14.2 %
- Average Speed: 29 mph
- 10 Mile Per Hour Pace Speed: 26-35 mph
- 85th Percentile Speed: 34 mph
- Total Percentage Above Speed Limit: 49.5 %

Encl.: Detailed TraxPro Speed Report (Combined)