

CIVL 4162/6162
Traffic Engineering
Assignment-5
Due: November 14, 2019 (before class)

This assignment is based on the traffic data collected in volume studies (Lab-1) for the intersection Central Ave- Patterson St. Utilize the data collected in the lab to answer the following questions:

Q.1. Analyze the intersection using software Trafficware Synchro 10 for different traffic control devices:

- (a) Unsignalized intersection
- (b) Pre-timed traffic signal
- (c) Actuated traffic signal
- (d) Semi-actuated traffic signal
- (e) Roundabout

Based on your analysis which one of the above is the most suitable measure to reduce delays and conflicts at the intersection Central Ave – Patterson St.

Submit your software file (.SYN) and reports including input volume, V/C ratios, traffic signal timings, Delays, Intersection capacity utilization (ICU), and level of service (LOS).

[CIVL 6162 only]

Q.2. Repeat the question in HCS 2010 and submit the software file (.XUS) along with a brief comparison of results obtained from both the software.

Note: If you face any problems in accessing the software, please drop an email to isharma@memphis.edu.