



Multi-Way Stop for the Intersection of  
Madison St and Wayne St  
City Engineering Department  
September 2017

**Criteria for Multi-Way Stop Installation**

Based on MUTCD 2009 Edition Standards

**Criterion 1: Crash Experience**

This criterion is **not satisfied** because there were only 2 accidents at this intersection in the past 12 months that could have been prevented by a Multi-Way Stop.

**Criterion 2: 8-hour Vehicular Volume**

This criterion is **not satisfied** because the vehicles per hour entering the intersection of Madison St and Wayne St coming from Wayne St is 78, which does exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicle per hour entering the intersection from Madison St is 108, which does not exceed the required minimum 200 vehicles per hour for the same 8 hours.

**Criterion 3: Major Road Approach Speed**

This criterion is **not satisfied** because the 85<sup>th</sup>-percentile approach speed of traffic on Wayne St is 34 mph, which does not exceed the required minimum of 40 mph. However, it should be noted that 71.6% of the traffic on Hill St was over the posted limit, with a mean speed of 28 mph both directions, 28 mph westbound, and 258mph eastbound.

**Additional Notes:**

Based on MUTCD 2009 standards none of the criteria's are satisfied for Multi-way stop Installation.

Prepared By: Abhishek Deora

Date: 09/21/17

Reviewed By:

Date:

11-30-17

Encl:

