



"... meeting community needs ... enhancing quality of life."

DEPARTMENT OF PUBLIC WORKS
Engineering Division – Traffic Section
2625 E. Glendale Avenue
Appleton, WI 54911
TEL (920) 832-5580
FAX (920) 832-5570

To: Municipal Services Committee
From: Eric Lom, City Traffic Engineer
Date: February 28, 2017
Re: Intersection traffic control at the Haddonstone Drive / Castlebury Lane intersection

As a follow-up to a citizen concern, the Traffic Section recently initiated a six-month trial period to test the installation of yield signs at the intersection of Haddonstone Drive and Castlebury Lane (it had previously been uncontrolled). This is a four-legged intersection that is located about four blocks west of Meade Street, and approximately two blocks north of Evergreen Drive. The land use in the area of this intersection is residential.

In a typical intersection control study, we consider traffic volumes, crash history, safe approach speeds, etc. In this case, the estimated entering volume of this intersection is quite low, at approximately 300 vehicles per day. No crash records were found for the recent five-year period of 2012 through 2016. The critical approach speed for the intersection was found to be approximately 10 mph. Both streets are classified as *local*.

More relevant, however, is that the *Manual on Uniform Traffic Control Devices*, for the sake of consistency, states that intersection control should be installed at uncontrolled intersections which are located in predominantly controlled areas (stops, yields, signals). We have interpreted this to mean that if more than 75% of the four-legged intersections in a particular area (whose boundaries are typically defined by collector or arterial roadways) are controlled, the remaining uncontrolled four-legged intersections should have an appropriate form of control added. While there are several uncontrolled T-intersections in the vicinity, this subject intersection is the only four-legged intersection in this area that remains uncontrolled.

Based on the above, I recommend *yield* control be implemented at this location on a permanent basis.

To accomplish this, the following ordinance action is required:

1. **Create:** "Install yield signs on Haddonstone Drive at Castlebury Lane."