



DEPARTMENT OF PUBLIC WORKS
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To: Municipal Services Committee
From: Eric Lom, Traffic Engineer
Date: January 17, 2018
Re: Intersection traffic control at the Carpenter Street / Roeland Avenue intersection
Follow-Up to Six-Month Trial Period

As a part of a normal review, the Traffic Section recently evaluated the control at the intersection of Carpenter Street and Roeland Avenue, and subsequently initiated a six-month trial period to change from two-way stop control to all-way stop control. This intersection is located approximately five blocks east of Oneida Street and two blocks south of Taft Avenue. Roeland Avenue is functionally classified as a *collector* street to the west of this intersection, while Carpenter Street is functionally classified as a *collector* street to the north of this intersection.

In a typical intersection control study, we consider traffic volumes, crash history, safe approach speeds, pedestrian safety, etc. In this case, the estimated entering volume of this intersection is approximately 5100 vehicles per day, which yields hourly volumes that are in the range of what is recommended for all-way stop control. A review of crash records indicated two crashes for the recent five-year period of 2013 through 2017. However, the critical approach speed for the intersection was found to be approximately 11 mph, which is lower than we would like to see.

During the trial period, it was noted that the all-way stop control adequately addressed the safety issues and provided a safer place for pedestrians to cross. Further, all feedback received by my office was positive. Based on this, we recommend making the changes permanent.

To accomplish this, the following ordinance action is required:

1. **Create:** “Install all-way stop control at the Carpenter Street / Roeland Avenue intersection.”