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To: Municipal Services Committee
From: Eric Lom, Traffic Engineer
Date: June 17, 2020
Re: Intersection traffic control at the Gillett Street / Taylor Street intersection
Follow-Up to Six-Month Trial Period

Based on our annual crash records analysis, the Traffic Section recently reviewed the traffic control at the intersection of Gillette Street and Taylor Street, and subsequently initiated a six-month trial period to change from yield control to two-way stop control. This intersection is located three blocks west of Mason Street and one block south of Glendale Avenue. The land use in this area 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 low, at approximately 440 vehicles per day. A review of crash records indicated two crashes for the recent five-year period of 2015 through 2019, resulting in a crash rate that was in the top five worst for yield-controlled intersections in Appleton. The critical approach speed for the intersection was found to be approximately 5 mph due primarily to fence located in the northeast quadrant of the intersection (outside the legally-defined vision corner). Both streets are classified as *local*.

While this intersection does not meet the volume threshold for stop control, the critical approach speed is below the standard and the crash rate is above the standard for yield control. As such, we recommend maintaining the two-way stop control that was implemented for the trial period.

To accomplish this, the following ordinance action is required:

1. **Create:** "Install Stop signs on Taylor Street at Gillette Street."