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DEPARTMENT OF PUBLIC WORKS
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To: Municipal Services Committee
From: Eric Lom, City Traffic Engineer
Date: July 15, 2022
Re: Change to intersection traffic control at the Cedar Ridge Dr/Woodendale Way intersection
Follow-Up to Six-Month Trial Period

Based on requests from multiple citizens, and due to the fact that Woodendale Way/Ethan Dr was recently extended to the north/east and connected to Midway Rd, the Traffic Section recently reviewed the traffic control at the intersection of Cedar Ridge Dr/Woodendale Way. We subsequently initiated a six-month trial period to change from no control to two-way stop control.

This 4-legged intersection is located 0.3 miles south of Midway Rd and 0.4 miles west of Lake Park Rd. The land use in this area is primarily residential. Both streets are functionally classified as *local*.

In a typical intersection control study, we consider traffic volumes, crash history, safe approach speeds, etc. In this case, the entering volume of this intersection is relatively low, at an estimated 750 vehicles per day. A review of crash records indicated zero reportable crashes for the recent five-year period of 2017 through 2021. The critical approach speed for the intersection was found to be approximately 4 mph, which is primarily due to dense vegetation in the northeast corner.

While this intersection does not meet the volume threshold for stop control, the critical approach speed is below the standard for no control/yield control. As such, we recommend maintaining the two-way stop control that was implemented for the trial period. The orientation of the stop signs was determined based primarily on an industry best practice that states that the street with the lower traffic volume should stop for the street with the higher traffic volume.

To accomplish this, the following ordinance action is required:

1. **Create:** “Install stop signs on Cedar Ridge Drive at Woodendale Way.”