



CITY OF APPLETON

MEMORANDUM

Date: 8/5/24
To: Municipal Services Committee
From: Eric Lom, P.E., City Traffic Engineer
Subject: Catherine Street / North Street intersection control (proposed 1-way stop)

Based on a request from Alderperson Smith, the Traffic Section recently reviewed the traffic control at the yield-controlled intersection of Catherine Street / North Street. This three-legged "T" intersection is located two block-equivalents east of Rankin Street and one block south of Pacific Street. 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 (less than 1000 vehicles per day). A review of crash records indicated zero reportable crashes for the past five years. The critical approach speed for the intersection was found to be approximately 9 mph, which is primarily due to buildings and vegetation located in the SE and SW quadrants, resulting in poor sight lines.

While this intersection does not meet the traffic volume or the crash frequency thresholds for stop control, the critical approach speed is below the standard for yield control. As such, we recommend implementing one-way stop control. To accomplish this, the following ordinance action is required:

1. **Create:** "Install a stop sign on Catherine Street at North Street."