

All-Way Stop Control Countryside Drive at Countryside Drive, Sudbury

Transportation and Innovation Services staff received direction at the November Operations Committee meeting to review the intersection of Countryside Drive at Countryside Drive for an all-way stop. The intersection forms a four-leg intersection controlled with two stop signs facing southeast bound traffic on Countryside Drive and northeast bound traffic from the Gerry McCrory Countryside Sports Complex.



In 2008, City Council adopted an all-way stop policy for the City of Greater Sudbury. The policy is based on a jurisdictional scan of Ontario municipalities and reduces the requirements to have all-way stops installed. Staff conducted a turning movement count on August 7, 2019 at this intersection and applied the data to the City's minimum

volume warrant. Based on the average annual daily traffic volumes on Countryside Drive, this intersection would be classified as Minor Collector. As shown in Exhibit A, the total volume meets 68% of the volume requirements.

A review of the City's collision information from 2015 to 2019 year to date revealed that there were no collisions during this period. For a minor collector roadway, the collision warrant requires a minimum of three collisions per year over three-year period.

Based on approved future development, Staff also reviewed how a veterinary clinic and dog park would impact the results of the all-way stop warrant. The veterinary clinic is proposed to be constructed within the cul-de-sac portion of Countryside Drive and the dog park will be constructed northwest of the arena with access being provided from the arena driveway.

The Institute of Transportation Engineers Trip Generation Handbook estimates the number of trips for a veterinary clinic based on building area. These estimates are based on historical traffic studies conducted throughout North America and submitted to the ITE. The size of the proposed veterinary clinic is approximately 730 square metres or approximately 7,858 square feet. Based on this size, the clinic is estimated to generate 37 trips in the afternoon peak hour.

Since the ITE Trip Generation Handbook does not have studies for a dog park, staff used the Second Avenue dog park as a comparative location. The counts collected indicate there were 14 trips in the afternoon peak hour.

Staff used a conservative approach and added these estimated trips to all four peak hours for the all-way stop warrant. As shown in Exhibit B, the total volume meets 82% of the volume requirements.

Based on the current and projected traffic volume and collision history, staff does not recommend installing an all-way stop at the intersection of Countryside Drive and Countryside Drive. With the ongoing development in the area, staff will continue to monitor the traffic volumes to the intersection to determine if an all-way stop will be warranted.