

1 INTRODUCTION AND BACKGROUND

The City of Clarence-Rockland is comprised of urban and rural developed and undeveloped lands located east of the City of Ottawa. Its population of over 24,000 people is concentrated in Rockland (population of 12,000), an urban area located in the northwest corner of the City, south of Highway 17 and the Ottawa River. Notre Dame and Alma Street are in the urban residential area of Rockland East, intersecting and parallel to Laurier Street, the main commercial street in Rockland. The streets primarily provide access to single-family dwellings.

The purpose of this study is to evaluate the functions and characteristics of both Notre Dame and Alma Street as well as the surrounding streets to identify and comment on their suitability for one-way operations and optimal configuration of traffic flow. The analysis took a multi-modal approach, reviewing the streets' traffic flow and operations; geometry; connectivity; safety, pedestrian and cyclist safety and comfort; emergency access; public realm and livability; and maintenance operations.

This primary goal was achieved through the following major tasks:

- Background review, traffic data collection and site investigation;
- Review of existing transportation operations¹;
- Review of options to identify the optimal directional flow of the study area streets, including one or both of Notre Dame and Alma Street being converted to one-way operations and different directionality of the one-way flow;
- Evaluation of candidate one-way options, including traffic analysis with projected volumes redistributed based on the modifications to traffic flow; and
- Recommendation of the preferred option and measures to mitigate any impacts associated with the conversion.

The study area is shown with subject streets highlighted in Figure 1-1.



Figure 1-1: Study Area

¹ A review collision data for Notre Dame and Alma Street was included the proposal, however throughout the course of the project, WSP was unsuccessful at acquiring collision data from the Ontario Provincial Police.