



Hamilton

DEVELOPMENT APPLICATION GUIDELINES

Modern Roundabout and Neighbourhood Roundabout Analysis

PURPOSE:

This document explains the guidelines for the preparation of a Modern Roundabout or Neighbourhood Roundabout Analysis which may be required for the submission of an application under the *Planning Act*. All Modern Roundabout or Neighbourhood Roundabout Analyses shall follow the guidelines referenced in this document. Failure to adhere to the guidelines may result in a submission being considered unsatisfactory and a submitted application being deemed incomplete.

The purpose of a Modern Roundabout or Neighbourhood Roundabout Analysis is to determine if a roundabout will provide a safe and adequate form of traffic control at an existing or future intersection.

A Modern Roundabout Analysis must be completed for any potential traffic signal installation or for an existing signalized intersection that is projected to experience collision patterns, congestion or poor level of service. The need for a Modern Roundabout analysis at an existing signalized intersection that is projected to experience collision patterns, congestion, or poor levels of service, will be identified during the Formal Consultation Stage.

PREPARED BY:

The Modern Roundabout or Neighbourhood Roundabout Analysis is to be prepared by a qualified transportation consultant experienced in transportation planning or traffic engineering. The consultant must be registered as a Professional Engineer in the province of Ontario.

CONTENTS INCLUDE:

The need for a Modern Roundabout or Neighbourhood Roundabout Analysis terms of reference and acceptable analysis software are to be confirmed through a pre-study consultation with Transportation Planning staff.

The Modern Roundabout or Neighbourhood Roundabout Analysis may be provided as a standalone document or as a separate section within a broader document containing required transportation studies.

The Modern Roundabout or Neighbourhood Roundabout Analysis should include:

- Roundabout analysis justification.

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- Inscribed circle diameter, number of travel lanes and where right-turn slip lanes may be required.
- Horizon years and time periods for analysis.
- Construction feasibility, including identifying where expropriation may be required.
- Expected level of service for all horizon years.
- Pedestrian accommodations.
- Conclusions and recommendations.

OTHER INFORMATION:

General design reference guidelines include the *Roundabouts: An Informational Guide* (FHWA-RD-00-067) from the Federal Highway Administration (United States) or *Synthesis of North American Roundabout Practices* from the Transportation Association of Canada.

REVIEWED AND APPROVED BY:

Transportation Planning and Parking Division, Planning and Economic Development Department, in conjunction with Transportation Operations and Maintenance, Public Works Department.

CONTACT:

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