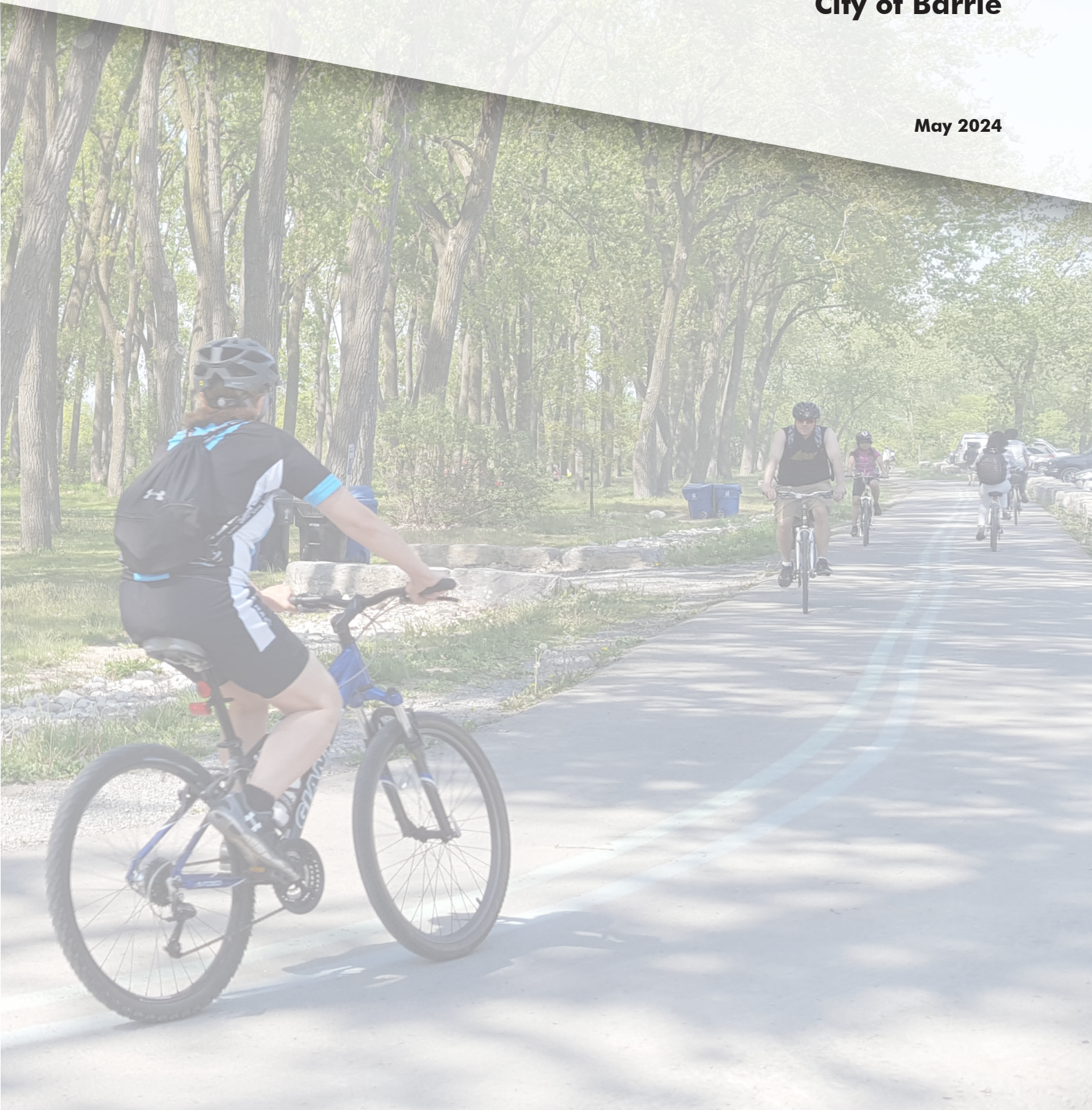


DIV Development (Barrie) Limited Pedestrian Circulation Trail Study

City of Barrie

May 2024



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Introduction

1.0

The City of Barrie is requesting that a Trail Study be completed to satisfy the Zoning By-law Amendment and Draft Plan of Subdivision application to facilitate the development of the subject lands, referred to herein as the DIV Development. The Trail Study has been prepared to provide the City with an understanding of the existing and proposed trails within the subject site and will assist with the planning of community services, including trails, within the City.

The scope of the Trail Study has been comprised of the following components:

- Review all relevant background documents including the City of Barrie Transportation Master Plan (June 2019) and relevant Environmental Impact Studies for the subject lands;
- Attend a site review of the site and surrounding neighbourhoods to review the surrounding trails and circulation routes and to review opportunities for trail connections to the surrounding community;
- Prepare a preliminary Trail Study that includes the proposed trail network of interconnected parks and open spaces that may include linkages on multi-use trails, sidewalks, bicycle paths and roads and potential connections to the surrounding neighbourhoods;
- Attend a future meeting with the City to review the preliminary Trail Study and to solicit feedback from the City in order to finalize the Trail Study;
- Finalize the Trail Study based on future City comments and submit the Trail Study in connection with Planning Approvals.



DIV Development 2.0

2.1 Community Plan

The proposed development will contribute to creating a unique residential development that is complementary to its natural and built surroundings and is generally consistent with the overall vision, policy framework and community structure identified in the City of Barrie Official Plan.

The subject lands are envisioned as a high quality development that will introduce low and medium density residential dwellings. The residential community will support the development of a future park, parkettes and a school block. The proposed development will contribute to establishing a memorable and attractive community with a sense of place. The proposed development introduces a total of 931-1155 residential units that comprise of 533-757 11.0m single detached dwellings, 40 street townhouse (6.1m) units, 98 rear lane townhouse (6.5m) units, 126 back-to-back townhouse (6.5m) units and 134 medium density units. The development proposes two stormwater management blocks and two Natural Heritage System blocks. Additionally, a comprehensive trail network, walkway blocks, and vista blocks are proposed, which will provide permeable pedestrian connections and opportunities for active transportation (Refer to Figure 2). The proposal is envisioned to be developed over four phases.



Figure 1: DIV Community – Land Use Diagram



Figure 2: DIV Community – Proposed Pedestrian and Trail Network



Trails Plan 3.0

3.1 Active Transportation Network

Based on our review of the background information, it is clear that the implementation of key trails and off road pathways is a high priority to the City of Barrie. Trails are a valuable community feature that attract buyers, improve the health of residents and promote positive interaction between the community and the natural environment. Perhaps the most important function of trails, sidewalks and bike paths/lanes is to create a walkable community that link destinations including community centers, parks, schools, transit hubs, employment lands and commercial developments.

The City is looking to expand the pedestrian and bicycle network, especially in areas of growth and intensification, as well as improving trail connections to existing schools. The goal of this Trail Study is to design a trail system that is well connected and improves human health and ecological function. This will be accomplished by analyzing the existing trails around the subject site, which encompasses both off-street and on-street trails, sidewalks, walkways, and cycling routes. Additionally, a 3.0m greenway multi-purpose use walkway will be included to enrich the pedestrian network within the subject site and extend it into the neighboring community. A site visit was conducted to understand the opportunities and constraints of the site in order to inform the design of the proposed trail network. Please refer to site images on page 9.

Refer to Figure 2 for the proposed trail network for the development of the DIV Community.

Highlights of the Trail Study may include the following:

- A safe and comfortable sidewalk network that is envisioned to:
 - (1) Provide a continuous north-south connection within the DIV Community;
 - (2) Provide connections from the proposed community to Maplevue Drive East and Lockhart Road; and
 - (3) Provide connections to the proposed park and parkette blocks and future school block.
- Six walkway blocks are proposed on the subject site, two walkway blocks that are accessed through Street 'A' and one walkway block is accessed through street 'B' will provide direct connections to the proposed trail network and three walkway blocks are accessed through Lane 'B' Connecting to Street 'L', Lockhart Road and the intersection between Lockhart Road and 20th Sideroad;
- Proposed trail through Natural Heritage System linking the North and South Neighbourhoods. This trail will provide access for area residents to experience the natural beauty of the Natural Heritage System and foster recreational opportunities for the broader community;
- Provide site furnishings including benches, litter receptacles and resting areas along the trail, as required and provide wayfinding signage to assist trail users;
- Trail heads that will be primary entrances to the trail and designed to promote entry through decorative hard surface areas. Trail heads and wayfinding signage will provide clear direction and information to trail users;
- A multi-modal trail network through the Natural Heritage System that will have a minimum width of 3.0m (subject to City confirmation).

The detailed design of this trail should ensure access to trails for people of all ages and abilities, in accordance with AODA standards. Safe access points through the Proposed Community Plan and to existing communities will promote usability.

The envisioned active transportation network will create a safe, comfortable and convenient trail system that will offer recreational opportunities for residents of Barrie, while providing linkages to important destinations within the community.

Site Walk To Determine The Potential Trail Within The NHS & Buffer



Site Images taken by MBTW-WAI



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