



Town of Lakeshore



TOWN OF LAKESHORE TRAILS MASTER PLAN



DRAFT FOR DISCUSSION PURPOSES ONLY

JULY 2007

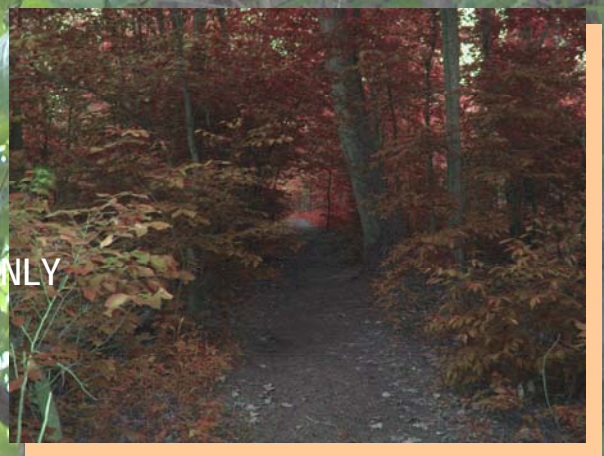


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1.0 INTRODUCTION

1.1 Overview

The purpose of the Town of Lakeshore Trails Master Plan (TMP) is to describe goals and recommendations needed to develop and maintain a town-wide non-motorized trail system or Town Trail System with access points into the system and to public lands within the geographic boundaries of the Town.

Due to the rapidly growing population in the Town of Lakeshore, many areas within the urban corridor that were formerly available to outdoor recreationists are now being lost to development and open lands are being fenced or developed.

There is a growing interest in health, physical fitness, stress reduction, conservation of natural areas, recreation and alternate means of travel. A trail access system provides recreational opportunities that are accessible to all members of the community. They provide a wide range of benefits while preserving and fostering an appreciation of the natural environment. Trail systems are unique in that they provide alternative methods of transportation, preserve green space, provide green corridors for animal and bird habitat, serve as natural, undisturbed environments and offer outdoor classroom experiences.

Trails have transportation, as well as recreational uses, and have a position in transportation planning for developing areas. With growth there is a need to address establishment of connecting alternative means of transportation. Trail networks should be planned with a view to addressing environmental concerns as well as serving all residents. The TMP will provide an opportunity for multi-use alternate means of transportation, as well as, recreational purposes.

1.2 Scope

The intent of the TMP is to perpetuate the development of a system of non-motorized trails throughout the Town of Lakeshore. The TMP is to provide mechanisms to prevent the additional loss of access to both public lands and waterways, and existing trail systems, as well as to establish feeder/connector trails to provide access to the existing trail system strategic municipal sidewalks, external municipal trail access points, public lands, waterways, etc. The TMP would provide a means of cooperation between the Town of Lakeshore, Lower Thames Valley Conservation Authority, Essex Region Conservation Authority, other government agencies, service clubs and individual members of the community. A trail rating chart will also form part of the TMP, reducing the "trail by petition" plans of the past.

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The trail system would encourage use of public lands, flood control areas, utility easements, railroad, streams and rivers and private easements/rights-of-ways, and green belts (see attached map).

With an inventory of trail systems, specific trails could be refined expanded or developed depending upon desire, funding, volunteerism and need. This plan represents a continuous endeavour to develop a system of non-motorized trails within the Town of Lakeshore. Given the policies and implementation strategies, the loss of access to public lands and the main trail system should be prevented.

The Town will use the TMP to prioritize trail development on an annual basis, subject to budget availability.

1.3 Trails Master Plan Strategy Components

The Trails Master Plan Strategy has two types of trails:

- **Land Trails** – Involve trails totally dependent on a land base for hiking, walking, bicycling, heritage, equestrian or related uses.
- **Blue Trails** – Trails that use river/stream/canal systems within the municipality, supporting a potential mix of land and water-based travel activity, with the latter focusing on movement from the waterfront to the interior of the municipality along the various stream/river corridors.



These trail formats collectively will form the basis of the TMP which will eventually represent an integrated, multi-use, accessible, non-motorized and valued transportation network across the Lakeshore community that serves residents, visitors and tourists.

TRAILS MASTER PLAN

1.4 Benefits

The Town will benefit from a trail system in the following ways:

- Improved quality of life for all residents;
- Increased desirability as a place to live and work;
- Increased tourism, while providing trail directional information;
- Increased opportunity for events by schools, the Community and Development Services Department, hiking clubs, horse owners, scouting type clubs, mountain bikers and road bikers;
- Provide alternate means of transportation which means energy conservation and a cleaner environment;
- Increased outdoor education benefits through interpretive and/or historic trails, opportunities to observe nature, learn about our heritage, understand other cultures, become aware of survival techniques;
- Encourage and provide physical fitness and recreational activities for residents and visitors;
- Prevent random use and access by providing developed trails and eliminating parallel trails/trail access, thereby protecting soil, water, vegetation, wildlife, watercourses and cultural resources on all land jurisdictions;
- Foster community pride and cooperation;
- Finalize “Adopt a Trail” projects, programs and sponsors/volunteers
- Enhance property values;
- Preserve open space and waterways;



- Encourage maintenance of trails via “Adopt a Trail” or “Friends of ... Trail” programs or organizations at specific trail sites

1.5 Goals and Objectives

.1 GOALS:

- To develop a town-wide, non-motorized trail system by identifying, acquiring, securing access and maintaining trail opportunities, such as floodplains, railroad rights-of-way, utility line maintenance paths, rural roads – right of ways, waterways and other open spaces which offer unique opportunities for the creation of land and water-based (Blue Trails) independent trails which should be set aside for future development.
- To ensure access to trails on public lands and waterways and develop a system that will be safe and readily accessible.
- To provide an alternative mode of transportation, for residents, visitors and tourist.

.2 OBJECTIVES:

- Provide multi-use, non-motorized recreation and leisure opportunities within the trails/trail access system, including pedestrian, equestrian, bicycle, water-based and special needs trails;
- Develop and keep updated a Lakeshore Trails Master Plan, consistent with the Mission, Principles and Policies of the Lakeshore Community Services Master Plan;
- Develop a specific area for motorized trails, if possible. For example the Essex County Landfill site #3 could be a consideration;
- Encourages the acquisition and development of surplus railway corridors as important trail linkages to the surrounding municipalities.
- Prepare and distribute trail maps, guides and promotional materials;
- Cooperate and coordinate with other jurisdictions, agencies, groups/organizations, and trail advocates to develop new trails and to connect trails/trail access wherever possible;

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- Develop a working partnership for trail development and management with the Essex Region Conservation Authority and the Lower Thames Valley Conservation Authority;
- Preserve existing historic trails/trail access, including those on public lands, as well as important waterways and their corridors;
- Negotiate with developers, whenever possible, sites that could provide a linkage to existing or future/proposed trails/trail access, as part of the development process via parkland declarations development manuals;
- Coordinate efforts of various Town departments in establishing and/or maintaining trails/trail access;
- Coordinate trail maintenance;
- Encourage public education and involvement with the trail system; and encourage an "Adopt a Trail" program, or a "Friends of Trails" program;
- Support the access needs of residents with physical/mental and other challenges.
- Develop identifiable trail heads/access points and investigate development of user support services to enhance trail utilization and user experiences (rest areas, tea rooms, rentals, parking lots, etc.);
- Develop an annual base budget for trail maintenance, improvements and new trail development.

.3 POLICIES:

The following Trails Master Plan Strategy Policies are required to implement this initiative:

- All new developments should be strongly encouraged and directed to comply with the TMP, wherever relevant;
- The Town Council will determine overall budgetary priorities and allocations for an annual Lakeshore Trail Development and Lifecycle Maintenance Program, including annual allocations for new trail development;
- The Town will complete and review a minimum of every five years a Trails Master Plan for Lakeshore that will provide the following for the Town's Trail System:

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- Specific trail standards, design criteria, material applications, etc.
- A map of all trails in Lakeshore delineating priority use, locations, access points, services, lengths, links to natural heritage and natural habitat areas, and proposed/possible future on-road/off-road trails
- Marketing and promotion plans and materials
- Identified linkages with the Town's:
 - Community Strategic Plan
 - Community Service Master Plan
 - Development Charges By-law
 - Development Manual
 - Budgeting process
 - Official Plan and Zoning By-Law
 - Growth strategies
 - Policies relevant to trails
 - Tourism Plan
 - Other relevant connections.
- The Town will strongly encourage community partnerships for acquisition, improvement(s) and maintenance of this trail system. However, the absence of a third-party agreement for acquisition, improvement or maintenance should not be cause for the Town to reject acceptance of a proposed trail which is in compliance with the TMP. The acceptance of a trail does not guarantee Town funded construction and/or maintenance; and,
- Trails proposed for incorporation into the Town's Trail System will be reviewed by Town Council and appropriate action taken, as part of the annual budget process.



2.0 ROLES AND RESPONSIBILITIES

2.1 Role of the Town (Community and Development Services Department)

The Town of Lakeshore would fulfill the following roles for the TMP:

- Develop and keep updated a Lakeshore Trails Master Plan
- Adopt the by-law and resolutions necessary to launch and continue to implement the TMP.
- Incorporate the development of trails/trail accesses through the Development Review Process.
- Encourage public access through developments located in the proximity to public lands managed by public agencies, such as local conservation authorities. Such access points or connector trails must be on suitable terrain and in an area approved by the managing authority with which they will connect.
- Encourage public access from developments in proximity to trails/trail accesses and/or proposed trails/trail accesses designated in the Lakeshore Trails Master Plan. Such access or connector/feeder trails shall be located on suitable terrain.
- Require developers to include trails within their developments, particularly if the project is in proximity to either public lands or identified in the Trails Master Plan. Such trails should be constructed, maintained and managed by the developer, an interested trail group, or local homeowners'/neighbourhood association, unless the trail lands have been dedicated to the municipality.
- Encourage, where feasible, the use of floodplain lands and storm management areas for trails, and trail head areas.
- Develop intergovernmental agreements to encourage retention of any trails, trail heads and accesses under local, provincial or federal jurisdiction, including what has been determined as historic trails and/or trails of significance in the event of a change in jurisdictional authority.
- Consider utility easements for trail use.

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- Consider abandoned rail lands or right of way options along existing rail lines for trail use.
- Encourage developers to recognize existing trails that have either significant use or historical importance.
- Review recommendations from the Lakeshore Trails Committee (LTC) on trails and trail access points to be considered as part of the Town's Trail System.
- Present recommendations to the Town Council on a periodic basis.
- Develop marketing and promotion materials to encourage and support trail utilization.
- Form a Lakeshore Trails Committee to support and provide input on all facets of trail development in Lakeshore.

2.2 Role of Other County Departments and Towns/Cities

Town Council should encourage the cooperation of Essex County Departments, Essex Region Conservation Authority, Lower Thames Valley Conservation Authority and other jurisdictions to support, connect to, promote and extend geographically Lakeshore trails to neighbouring municipalities.

2.3 Role of the Lakeshore Trails Committee

Town Council should appoint a Lakeshore Trails Committee (LTC) which may consist of two Councillors and one appointee from each ward to assist in the implementation of the plan, plus representation if required from the Lower Thames Valley Conservation Authority and the Essex Region Conservation Authority. The Committee, working under the guidance of the Community and Development Department, will meet on a quarterly basis or as often as deemed necessary. The LTC may seek technical advice from a Trails Technical Advisory Committee which may be comprised of representatives from other governmental and private agencies/organizations that are involved with the establishment, maintenance and/or ongoing promotion of trails in Lakeshore.

The LTC shall be responsible for supporting the implementation of the TMP, including the following areas:

- Ensure that all approved trails are shown on the Official Trails Master Plan Map.

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- Cooperate with local trail users and organizations in the community and use a review process to consider inclusion of new trails/trail access on the official TMP Map.
- Develop a Plan of Action for recommended trail acquisitions on a priority basis as follows:
 - Trails most threatened by development or acquisition by other sources;
 - Trail heads/accesses;
 - Trails utilized by a large number of users in an urban setting;
 - Connecting trails; and,
 - Special use trails (this could include a designated motorized trail area).
- Review nomination applications of trails proposed for inclusion into the Town's Trail System and make field inspections as to their suitability and the accuracy of information. Recommendations will be submitted to the Town's Community and Development Services Department for staff consideration. Town Council will make the final decision on the inclusion of trails into the Town's Trail System.
- Review plans submitted to the Community and Development Services Department that consider the need for trails, trail heads and access points given the location and nature of the project.
- As required, act as coordinator between various Town departments involved with trails, as well as the public.
- Consult with government agencies and public utilities as may be necessary.
- Work with government agencies and public utility companies to secure easements/rights-of-way.
- Communicate and coordinate with other agencies, organizations and jurisdictions to coordinate trail plans that provide continuity of trails and accesses with Lakeshore.
- Recommend trails for inclusion in the Town's Trails System and work with groups seeking to nominate trails into the Town's Trail System.

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- Support planning initiatives relative to trail user services at trail heads, such as parking, bicycle rentals, food services and other user experience enhancements as possible.
- Review and prioritize trails providing recommendations on designations for multi-use or specific/specialized uses.
- Work with trail user groups to determine their needs, as well as work with interested persons/groups to develop trails for the physically/mentally challenged where feasible.
- Encourage public participation in the development, maintenance and promotion of trails/trail accesses.
- Solicit civic groups, service clubs, recreation clubs and other organizations to adopt trails for general improvements and maintenance of specific projects.
- Coordinate and follow up on the construction and maintenance of trails/trail access points.
- Encourage groups to maintain existing trails. Trails additions made to the Town's Trail System to serve a specific area or group may require a maintenance agreement with the Town.
- Work through trail user groups to coordinate construction and maintenance of trails/trail access points.
- Design a logo and brand for the Town's Trail System and develop a number/naming designation system that will be consistent with the system presently used by the provincial government, as well as support and provide input on Lakeshore Trails marketing and promotional materials, special events, etc.
- Work with groups seeking grants and in need of government sponsorship. However, it will not be the LTC's responsibility to write such grants or follow through on them.

3.0 TRAIL DESIGN AND OPERATIONS

3.1 Trail Standards

Standards for the development and maintenance of the trails should encourage accessible, logical, safe and comfortable usage, serve a wide variety of recreation and transportation modes and impact the environment as little as possible. Standards are outlined in Appendix A.

Two types of trails are identified within the trail design in operations perspectives for the Municipality of Lakeshore. These are:

- **Land Trails** – Involve trails dependent on a land base for hiking, walking, bicycling, heritage, equestrian or related uses.
- **Blue Trails** – Trails that use rivers/stream/canal systems within the municipality, supporting a potential mix of land and water-based travel activity, with the latter focusing on movement from the Lake St. Clair waterfront to the interior of the municipality along the various stream/river corridors.

The following requirements for the two types of trail systems are identified as part of the TMP design and operations standards.

.1 LAND TRAILS

- A mix of trails suitable for use by hikers, bicyclists, equestrians and wheelchairs should be encouraged.
- Trail widths should be wide enough to accommodate the intended use. General specifications are attached as an appendix to the TMP.
- Trail easements intended for equestrian use, wherever feasible, should be cleared wide enough to accommodate the passage of two people on horseback coming from opposite directions (generally ten feet) or adequate turnouts should be provided, as well as being cleared to a high enough level for a horse and rider.



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The preferred trail easement width is ten feet. However, different widths for trail easements may be accepted if there are special circumstances.

- Trail grades should generally not exceed two metres feet per thirty metres, but may be built steeper for short distances.
- Trail surfaces should be nearly level with a minimal out slope for drainage.
- Drainage dips/swales/ditches and erosion control components should be engineered and scheduled to provide maximum endurance and to minimize impact on soil and vegetative resources.
- Turning radii for curves other than switchbacks should generally be greater than ten feet.
- Where trails pass under a highway, railroad or utility rights-of-way, equestrian passages should be at least twelve (3) three metres high and three (3) metres wide.
- All trails should have signage at trail heads and distance markers at either one or five kilometre distances.
- All trails should be reviewed for user services support opportunities relative to contracted services for rentals, food services (tea house), parking and related enhancement opportunities.

.2 BLUE TRAILS

- Water-based corridors/trails that travel the navigable distances of a stream/river courses within the municipality and that are suitable for canoeing or small non-motorized watercraft travel.
- The Blue Trails can be connected wherever possible to land trails and can be supplemented by land trails from the end of a water course to another connecting land trail segment.
- Blue Trail widths are dependent upon the water course in use, but should be sustained to support reasonable canoeing activity.
- Blue Trails, in terms of the water course, should be cleared of overhanging branches, protruding rocks and other small barriers that impede the potential travel

plane of the water course. This could also include special community group event days intended to clean debris, garbage and other materials from both the water course and the supporting neighbouring ravine/valley lands

- All Blue Trails should have signage at both their trail heads, as well as distance markers at one or five kilometre distances.
- Blue Trails are to be developed with key access points that are supported by floating docks for loading of canoes and related supports in conjunction with the local conservation authorities.
- All Blue Trails should be examined to determine the feasible opportunity for service enhancements related to boat rentals, food services and related support.
- Blue Trail planning and standards are to be integrated with and supportive of any of the Town’s Ecotourism Initiatives as may be identified within the Town’s Tourism Plan or any related planning or policy initiatives of the Town.

3.2 Trails Maintenance

The objective of trail maintenance is to preserve trail improvements and to minimize safety hazards. Trail maintenance begins immediately following trail construction and acceptance.

Trail maintenance in this strategy specifically covers trails under Town of Lakeshore jurisdiction. Other jurisdictions (federal, provincial and local) have their own maintenance policies. Trails covered by grant agreements may have additional maintenance requirements that apply.

Winter maintenance may include snow removal in specified designated trail areas, whenever feasible.

.1 TASKS

Maintenance of land and blue trails consists of the following identified areas:

- Removal of obstacles, such as rocks, branches, fallen trees and other debris, barriers or impediments;



- The regular removal of trash/litter;
- Trimming back new growth;
- Replacing and maintaining trail signs;
- Maintaining existing erosion barriers;
- Snow removal;
- Erecting new erosion barriers as required;
- Maintaining the travel surface in a smooth, usable and safe condition.

.2 PROCESS

To promote the maintenance objectives, the following process has been established that provides for timely reporting of items requiring maintenance, scheduling repairs, completion verification and maintenance records as applicable.

Trail users are a key component in the trail maintenance program. Users will often be the first to identify trail maintenance needs. In addition, users can participate in the removal of rocks, branches and other debris, as well as trimming new growth. Users identifying other conditions requiring maintenance should report the situation to the Town or the appropriate maintenance organization.

Labour sources available to perform trail maintenance may include:

- Trail groups;
- Area volunteers with a vested interest in the quality of life in the Town of Lakeshore;
- Local organizations with a similar interest;
- Developers and homeowners'/neighbourhood association;
- Alternative workforce such as:
- Local Service Clubs;



- Scouting type organizations;
- “Friends of” trail groups (to be established);
- Community service workers;
- Institute an Adopt-A-Trail program.

.3 LIABILITY – LANDOWNERS:

Municipal trails only will be covered under the Town’s general liability insurance policy.

.4 WAIVER OF LIABILITY – PERSONS PERFORMING MAINTENANCE:

All members and/or volunteers participating in any trail maintenance or construction activities agree to accept the personal responsibility for their own conduct and well-being, and knowingly accept the possible hazards incidental to activities in the outdoors.

.5 RECORDS AND DOCUMENTATION

General logs on maintenance for trails under Town jurisdiction will be maintained by the applicable maintenance organization on the Town, if no organization exists for a particular trail. Trails that have had monies appropriated for maintenance shall have dollar expenditures tracked and recorded as specified in the maintenance agreement.



4.0 TRAIL SELECTION, MAPPING AND FUNDING

4.1 Trails Selection Procedures

A criteria has been established for trails to be considered for inclusion into the Town of Lakeshore Trail System (See Appendix B). If a proposed trail meets these criteria, a nomination application must be completed which specifies ownership, exact location and maintenance terms.

The nomination application will be reviewed by the Lakeshore Trails Committee. The review will include a field inspection to determine the suitability of the trail.

The nomination application will then be submitted to the Community and Development Services Department for presentation to the Town Council for their consideration.

4.2 Trails Map

The Trails Master Plan (TMP) Maps adopted by Town Council shall be the official documents outlining the Town's Trail System. These maps shall be maintained by the Town and revised as directed by the Town Council. A series of maps outlining existing land trails, blue trails and short, mid and long term trail development recommendations are attached as Appendix C to the TMP. All maps shall be reviewed and altered, if required, on an annual basis.

4.3 TMP Amendments

The decision to amend the TMP should be based on one or more of the following criteria:

- Whether the subject trail or trail access serves as a link to a major nature preserve or waterway;
- Whether the subject trail or trail access is selected so as to minimize the impact on the environment; and/or whether the subject trail access is positioned in a way to minimize impacts upon adjacent structures and property owners;
- Whether the subject trail or trail access crosses roadways at grade separations or away from blind curves or stretches of road where visibility is obscured;
- Whether the subject trail or trail access is a significant scenic or historical route which serves as a link in the overall trail system;

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- Whether the subject trail or trail access will require significant alteration or removal of existing vegetation; and/or,
- Whether the subject trail or trail access will pose significant design or safety problems or has experienced water level or related constraints.

All trails, including but not limited to those of significant use, historic value and/or having official designation within a Conservation Authority's boundaries and/or other jurisdictions, may be considered for inclusion as an official Town trail or trail access point. In the event of any property transfer, perpetuation of official Town trail/trail access should be considered.

4.4 Funding

Town Council shall set up a separate account to accept donations, grants or any funds to be used exclusively for the acquisition, development, preservation and maintenance of the Town's Trail System.

Town Council may consider the use of Ecological Land Donations, Job Creation Programs and other funding sources.

Town Council should encourage other jurisdictions and organizations within the Town to participate in the acquisition, development, maintenance and promotion of trails that provide trail system connections.

5.0 TOWN OF LAKESHORE TRAILS MASTER PLAN, GLOSSARY

(Defines commonly associated trail terms)

ALTERNATIVE TRANSPORTATION – Foot, bicycle or equestrian use of a trail or pathway as a means of transportation in place of streets or highways.

ANNEXATION – Legal process transferring designated parcels, subdivisions or areas from one governmental jurisdiction to another.

ACCESS – Right of ingress or egress.

BLUE TRAILS – Trails that use river/stream/canal systems within the municipality, supporting a potential mix of land and water-based travel activity, with the latter focusing on movement from the waterfront to the interior of the municipality along the various stream/river corridors.

CONSERVATION EASEMENT – A non-possessory interest of a holder in real property imposing limitations or affirmative obligations for conservation purposes or to preserve the historic, architectural, archaeological or cultural aspects of real property.

DEVELOPER – Person or entity planning a development project governed by planning act regulations and specifications outlined in the Lakeshore Development Manual.

EASEMENT – A property interest which one person has in land owned by another, entitling the holder of the interest to limited use or enjoyment of the others; land. An express grant of easement must be in writing, usually in the form of separate deed or a reservation in a deed.

EMINENT DOMAIN – Sovereign Control over all property in a governmental jurisdiction, with the right of expropriation.

FLOODPLAIN – Permanent or seasonal drainage corridors.

GREENBELTS – Those areas reserved in a community for open space or passive recreational use.

LAND EXCHANGE – Parcels of blocks of land deeded to another person, developer or governmental agency in exchange for other land of like value.



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LAND TRAILS – Involve trails totally dependent on a land base for hiking, walking, bicycling, heritage, equestrian or related uses.

MOTORIZED – Restricted to specific area(s) designated by Town Council.

NON-MOTORIZED – Restricted to foot, bicycle or equestrian use only.

PUBLIC ACCESS AGREEMENT – Agreement by the developer or land owner allowing specific trail access across a portion of their property.

RIGHT-OF-WAY – The right or privilege, acquired through accepted usage or by contract, to pass over a designated portion of the property of another. A dedication of right-of-way includes the transfer of fee title interest in the property to Lakeshore or the appropriate governmental entity.

RIPARIAN AREA – Designation of corridors housing or benefiting species of flora or fauna.

SIGNIFICANT USE – High enough use for a length of time to have made a well-defined path where closure could impact the enjoyment of a significant number of citizens.

TRAIL – For the purposes of this document, a trail should be defined as a route or path which has been prepared, proposed or designated for non-motorized recreational functions under various descriptions, the preferred right-of-way width being a minimum of ten feet and the preferred typical trail surface being a minimum of 24 inches for land trails. Exceptions may be granted if there are special circumstances.

DEDICATED TRAIL – A trail that has been legally dedicated to the Town for public use either in fee simple or as an easement.

FEEDER/CONNECTOR – Those portions of a trail established as public access to main designated trail(s) or system of trails.

FITNESS TRAIL – A trail that has special features designed to aid or measure physical fitness.

HISTORIC TRAIL – A trail that has specific historic significance which can be documented, in whole or part, and conforms to federal guidelines.

INTERPRETIVE TRAIL – A trail with informative signage for understanding significant features along the trail course.

PRIVATE TRAIL – A trail on private property usually located within a subdivision, reserved for the express use of its residents and/or owners.

PUBLIC TRAIL – A designated route for use by the general public.

RURAL TRAIL – A trail located outside urban or suburban limits, usually less improved and following categories:

NEIGHBOURHOOD TRAIL - A trail primarily serving a specific area or neighbourhood.

PRIVATE PROPERTY TRAIL - A trail serving a particular private property or properties.

SPECIAL NEEDS TRAIL – A trail meeting the Ontarians With A Disability Act and other relevant acts and guidelines.

SUPPLEMENTAL TRAIL – An additional trail(s) required in areas where development would block access to the main trail system.

URBAN TRAIL – A trail occurring in areas of urban or suburban densities, or where improvement of the trail surface is necessitated by the nature of the development in which it occurs.

TRAIL ACCESS – An opening or gate allowing access to a trail and designed to preclude motorized uses. No special parking accommodations or other facilities are required. Generally, for neighbourhood or local use.

TRAILHEAD – Access to a trail with parking space to accommodate vehicles and, if appropriate, horse trailers, possibly including other facilities such as washrooms, bike racks, hitching posts, water and/or kiosks providing trail information, food services, boat or bicycle rentals, floating docks for canoe launching and related user services. A trailhead will serve as access for the general public.

TRAIL SURFACE – (Also referred to as TRAIL TREAD) The improved surface consisting of native soil, decomposed granite, gravel, stone or other material suitable for the use that is expected on a particular trail, giving full regard to the mobility needs of wheelchairs and others uses involving supportive mobility devices as feasible.

TRAILS/TRAIL ACCESS – may include:

- Trail(s);
- Trail access;
- Neighbourhood access; and/or,

- Trailhead

TRAILS/TRAIL ACCESS SYSTEM – An official designation for the entire developing system within the Town.

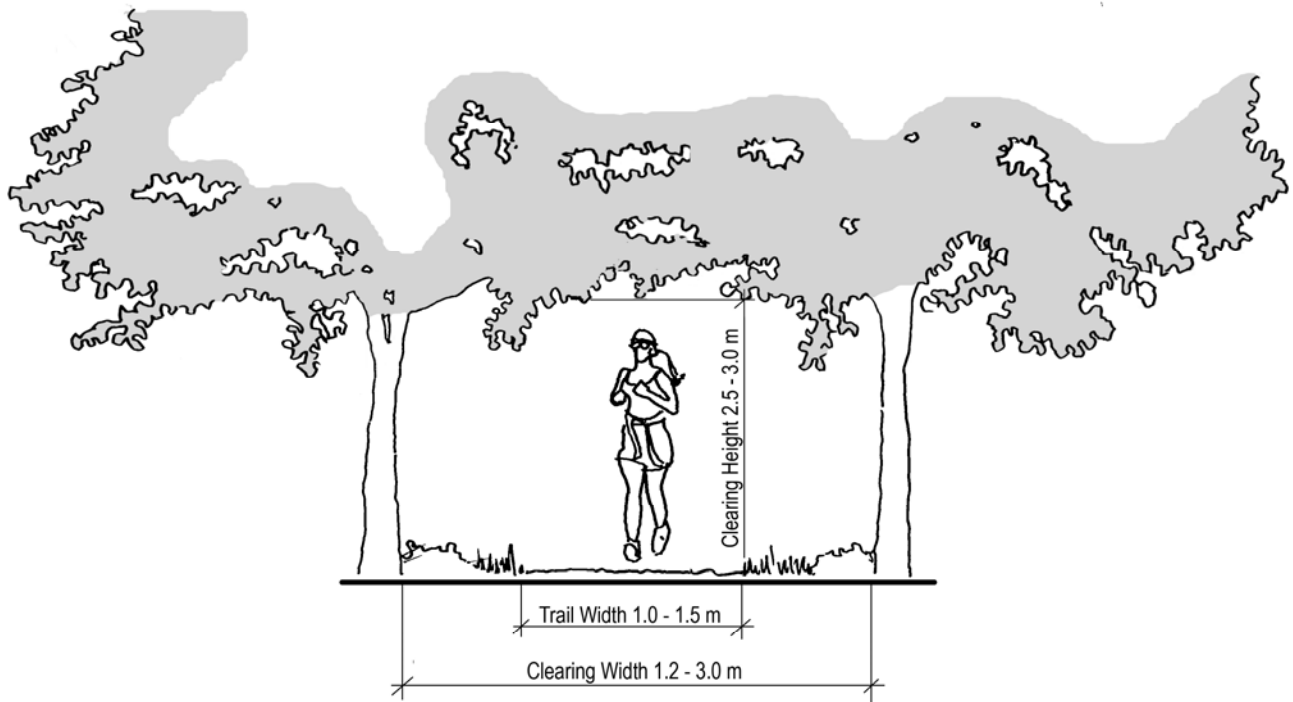
APPENDIX A

TRAIL DESIGN STANDARDS

1.0 WALKING / HIKING TRAILS

1.1 Purpose

The purpose of walking and hiking trails is to provide passive recreational opportunities and connections between points of interest. The trail designs vary depending on the volume of activity. Less travelled walking trails will be narrower and will have fewer amenities. More important trails with heavier use will have greater enhancements and be wider. Walking trails will be located predominately in areas of natural heritage including woodlots, along watercourses, around stormwater management areas and as connection linkages between larger parks.



1.2 Design Standards for Walking / Hiking Trails

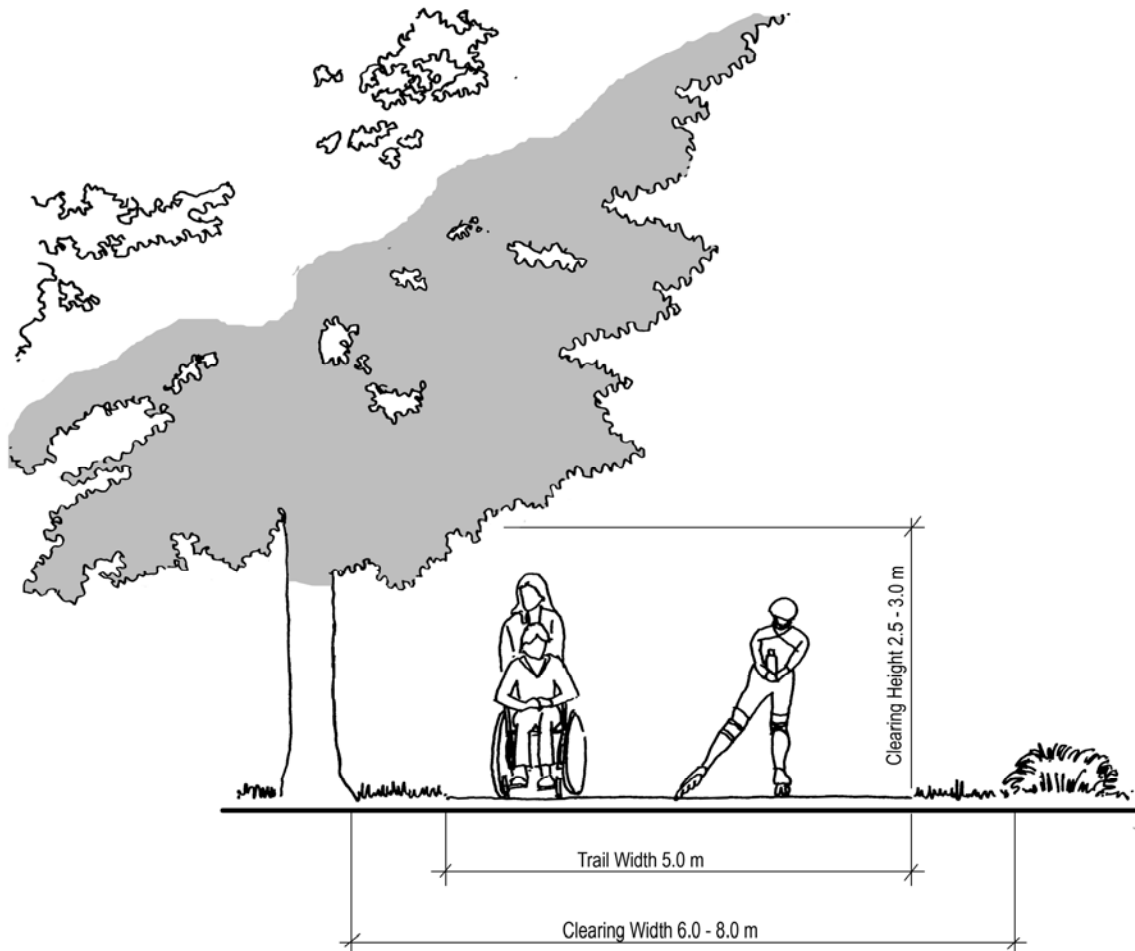
The following standards shall apply to walking and hiking trails where the Town of Lakeshore or newly developing areas are required to install trail features.

- i. *Clearing Width:* 1.2 metres to 3.0 metres varying by volume of activity;
- ii. *Tread Width:* 0.75 metres to 1.25 metres;
- iii. *Clearing Height:* 2.5 metres with sensitivity to maintain existing vegetation where possible;
- iv. *Surface:* compacted limestone fines or woodchips;
- v. *Grades:* The trail is intended to match the natural terrain wherever possible. Normally the desirable grade is less than 5% with a maximum of 15% to 25% for short distances;
- vi. The construction practices and type of material used for surface treatment should be sensitive to the surrounding natural vegetation and existing materials.
- vii. *Water Crossing:* Wherever possible the need to cross watercourses will be accommodated through existing bridge systems. Where necessary small bridges will be provided to accommodate walking traffic only. The bridges will be designed to minimize disruption to the waterway and provide sufficient clearance for continued canoe and kayak use;

2.0 WALKING, BIKING AND MULTI-USE PATH

2.1 Purpose

Multi-use recreation paths are intended to provide opportunities for a wide range of passive non-motorized activities. These may include walking, biking, wheelchair access, rollerblades, strollers and walkers for seniors. These trails are intended to be located in proximity to residential areas and newly developing subdivisions. These trails provide access to open space areas and link schools, commercial and institutional activities within the community. Where possible these trails will be located adjacent to stormwater management ponds, environmental areas and natural parks.



2.2 Design Standards for Walking, Biking and Multi-Use Paths

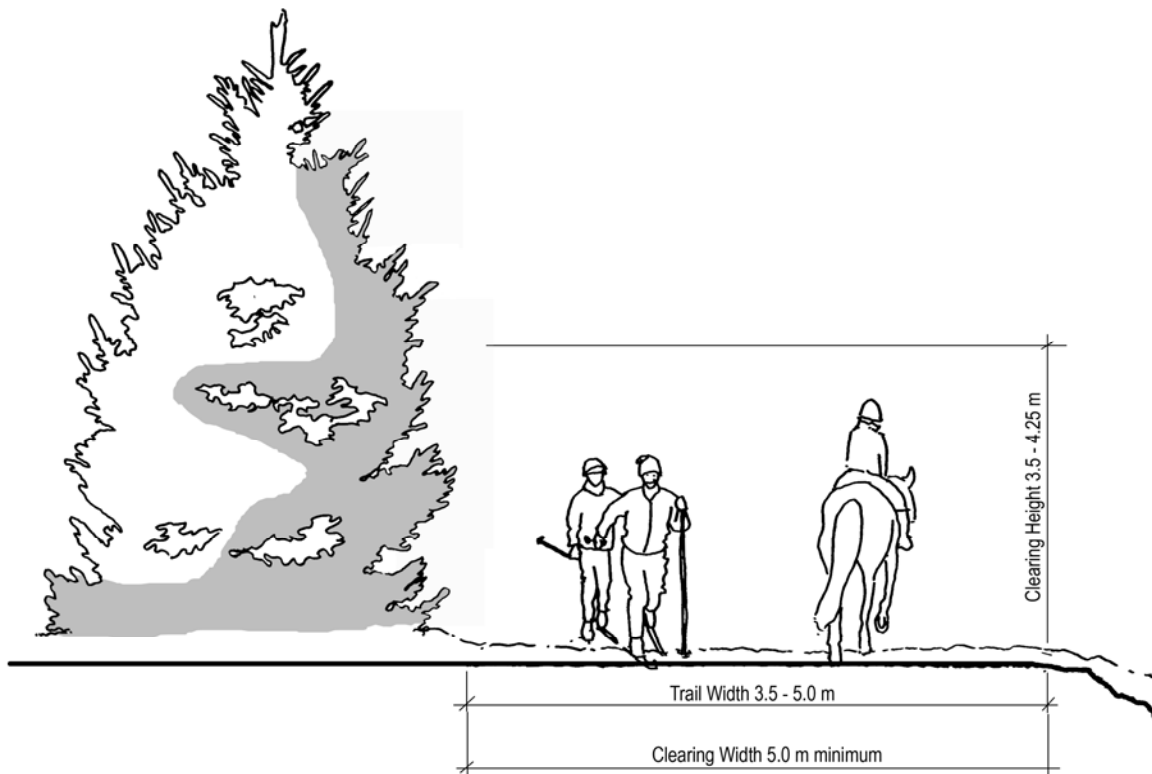
The following design standards shall apply to multi-use recreation trails.

- i. *Clearing Width:* 5 metres to 8 metres with some impact on adjacent vegetation;
- ii. *Tread Width:* 2 metres to 2.7 metres; 3 metres to 4.5 metres where the tread width anticipates significant cycling activity.
- iii. *Clearing Height:* 2.5 metres to 3.0 metres with some impact on surrounding vegetation;
- iv. *Surface:* compacted limestone fines, minimum; recommended asphalt where significant user activity is anticipated;
- v. *Grades:* 0 to 5% with maximum sustained grades less than 10%.
- vi. The design shall minimize blind corners, sudden grade changes or steep slopes terminating at a path or road intersections. This is intended to provide high levels of safety for cycling and in-line skating where higher speeds may occur.

3.0 RAILS TO TRAILS / HORSEBACK RIDING / CROSS COUNTRY SKIING

3.1 Purpose

Opportunities to convert surplus rail corridors to trail corridors may arise in the Town of Lakeshore. Rail trails are generally designed to accommodate a variety of uses including cyclists, pedestrians and horseback riding during summer months. During winter months it may be available for cross country skiers, snowshoeing and walking. This trail design should anticipate various skill levels, needs and characteristics of the variety of trail users. Surplus railways have a normal design width of 20 metres and have sufficient flexibility to create necessary trail amenities. Consideration will be given to rail embankments, railway crossings and other railway improvements that may have to be incorporated into the trail design.



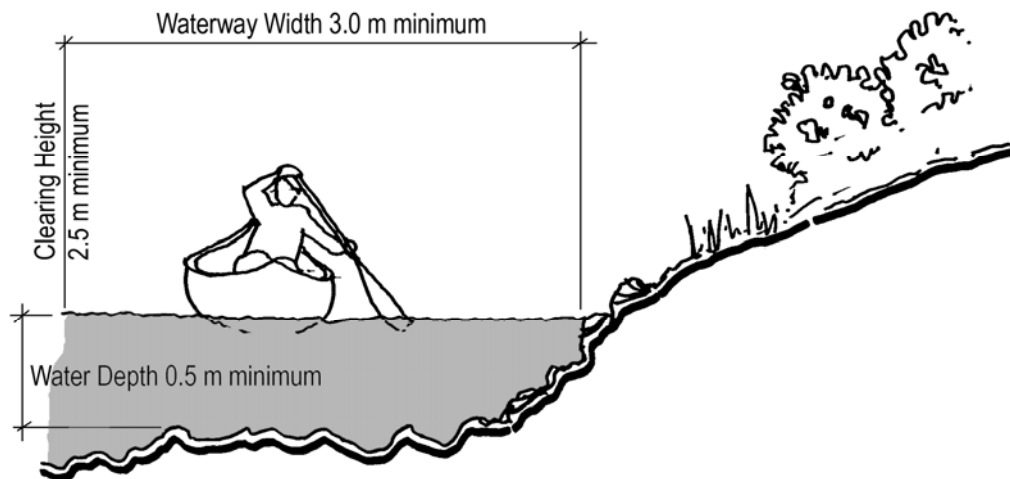
3.2 Design Standards for Rails to Trails / Horseback Riding / Cross Country Skiing

- i. *Clearing Width:* 5.0 metres minimum;
- ii. *Tread Width:* 3.5 metres to 5 metres;
- iii. *Clearing Height:* 3.0 metres to 4.25 metres for horseback riding;
- iv. *Surface:* a minimum 250 mm of existing railway ballast should remain after the removal of rails and ties. This sub-base should be compacted in advance of application of limestone fines. The limestone fines should be compacted to ensure consistence of surface.
- v. *Grades:* Existing grades of the railway will accommodate all types of multi-use activities.

4.0 BLUE TRAILS WATERCOURSES

4.1 Purpose

The purpose of blue trails is to provide non-motorized travel along existing waterways for canoes, kayaks and human powered watercraft. These trails include streams, canals, significant drainage ditches with access to Lake St. Clair along the Town of Lakeshore shoreline. By identifying these blue trail opportunities the municipality and user groups can undertake to create access points and design criteria for the trail identification and development. Access to the Blue Trails is intended to be available when there is sufficient depth of water to accommodate the watercraft.



4.2 Design Standards for Blue Trail Watercourses

- vi. *Clearing Width:* 3.0 metres minimum from edge to edge of waterway;
- vii. *Water Depth:* 0.5 metres minimum average seasonally and along the watercourse.
- viii. *Clearing Height:* 2.5 metres minimum to provide for clearance on paddle movement for kayaks.

APPENDIX B

TRAIL SYSTEM CRITERIA AND APPLICATIONS

TOWN OF LAKESHORE NON-MOTORIZED MULTI-USE TRAILS SYSTEM CRITERIA FOR INCLUSION

1. Trails will be considered for inclusion upon submission of the official application to the Lakeshore Trails Committee (c/o Town of Lakeshore Community and Development Services Department, 419 Notre Dame Street, Belle River, ON NOR 1A0).
 - Anyone or group may submit a nomination.
 - Documented concurrence of the involved landowner(s) and/or managing agency(s) must be provided with each nomination.
2. All nominations will be reviewed by the Trails Committee for general public safety, completeness and appropriateness. Based upon the recommendation of the Trails Committee, final approval of the nominated trail for inclusion in the Town's Trail System will be by the Town of Lakeshore Council.
3. Submitted existing trails nominations should show recent use as well as verified history of the route having been used by the public as a trail.
4. Trails that connect with one of the following will be given strong consideration:
 - Existing or proposed trails as already delineated on the Town Trail Map;
 - Existing social or historic trails;
 - Schools, parks, museums, archaeological sites, recreation facilities, natural areas, beaches, etc.;
 - Business sites;
 - Utilize travel-able watercourses in the Town;
 - Or is of significant community benefit.
5. The preferred width of a right-of-way for a land trail should be ten feet. The tread, or improved surface, could be as narrow as twenty-four (24) inches.

TOWN OF LAKESHORE TRAILS MASTER PLAN

6. The terrain and/or topography for a land trail or watercourse for a Blue Trail should be suitable for trail purposes, either multi-use or specific. They may be of various degrees of difficulty. Land trails should not be vertical or solid rock formations.
7. Trails that provide an alternate means of transportation should be given strong consideration, as should trails located in floodplains, old railroad rights of way, and utility easements and on watercourses.
8. Trails shall meet the Trail Route Evaluation Criteria Guidelines noted in Appendix C

TOWN OF LAKESHORE TRAILS SYSTEM SELECTION APPLICATION

Date: _____

Trail Name and Number (if applicable): _____

Nominating Agency/Organization: _____

Contact Person, title, address, phone: _____

Present Designation (please check all that apply): Proposed or Existing;

Public Property; Private Property; New Development; Historical;

Significant Social; Railroad; Utility Easement;

Other (Explain): _____

Present Owner, address, phone: _____

Trail Length: Proposed _____ Existing _____

Trail Uses: (Multi-use, horse, hike, bicycle, ADA, fitness): _____

Difficulty: _____ Elevation Range: _____

Condition: _____ Restrictions: _____

Parking: Trailhead _____ Horse Trailers: _____

Recommended Seasons for Use: _____

Water Availability: For People _____ For Horses _____

User Facilities: At Trailhead _____ On Trail _____

Current Signage: Yes _____ No _____

Access to trail: (Accurately describe directions to all trail access points. Include identifiable features such as landmarks, mileposts, signage, etc.)

Connections: (To other trails, network, parks, schools, significant, sites, etc.)

Regional Feature(s): _____

Nearest Community: Distance _____ Town _____

Directions: _____

Ontario Topo Map: _____

Legal description: (Range, Town, Section):

Please attach map(s) showing location of trail and how it relates to other trails.

Trail Highlights: _____

Area and approximate number of users that will benefit from this trail:

Arrangements for construction/maintenance:

Reason why this trail should be considered for inclusion in the system:

NOTE: Include extra pages as necessary.

AUTHORIZATION STATEMENT(S)

I authorize this trail to be nominated to the Town of Lakeshore Trails System.

LAND OWNER, MANAGING AGENCY: _____

SIGNATURE OF REPRESENTATIVE: _____

TOWN OF LAKESHORE TRAILS SELECTION REVIEW FORM

Submit Nominations To:

Town of Lakeshore Trail System
Lakeshore Trails Committee
c/o Community and Development Services Department
419 Notre Dame Street
Belle River, Ontario N0R 1A0

Date: _____

Trail Name and Number (if applicable): _____

Contact Agency/Organization: _____

Date of Review: _____ Date of Field Inspection: _____

Check List (Refer to Town of Lakeshore Trails System Nomination Application):

- | | |
|---|--|
| <input type="checkbox"/> Designation | <input type="checkbox"/> Connections |
| <input type="checkbox"/> Present Owner | <input type="checkbox"/> Regional Features |
| <input type="checkbox"/> Owner Contact | <input type="checkbox"/> Heritage Fund |
| <input type="checkbox"/> Length | <input type="checkbox"/> Nearest Community |
| <input type="checkbox"/> Trail Uses | <input type="checkbox"/> Ontario Topo Map |
| <input type="checkbox"/> Description | <input type="checkbox"/> Legal Description |
| <input type="checkbox"/> Parking | <input type="checkbox"/> Other Maps |
| <input type="checkbox"/> Season | <input type="checkbox"/> Trail Highlights |
| <input type="checkbox"/> Water Availability | <input type="checkbox"/> Area, Users |
| <input type="checkbox"/> User Facilities | <input type="checkbox"/> Maintenance |
| <input type="checkbox"/> Signage | <input type="checkbox"/> Reasons |
| <input type="checkbox"/> Access | <input type="checkbox"/> Signature(s) |

Approved: _____

Disapproved: _____

Reasons: _____

Reviewed by: (list all committee members who reviewed application) _____

TOWN OF LAKESHORE TRAILS MAINTENANCE AGREEMENT

THIS AGREEMENT is entered into between the Town of Lakeshore and (Applicant), as follows:

(Applicant) desires to acquire a right-of-way (location) from (land owner) for the (purpose and name/number of trail) using (funding source).

(Name) will retain title to this right-of-way.

(Applicant) agrees to provide reasonable access to the public.

(Applicant) will take the responsibility for obtaining volunteers to maintain this trail for a period of (years).

(Applicant) shall prepare all specifications for and documents necessary for expenditures of federal/provincial/local funds held by the Town for the project and submit the same to the Town for its approval and execution. (Applicant) shall supervise all such contract work without charge to the Town.

(Applicant) shall not cause any lien or encumbrance to attach to the subject property or any part thereof.

The Town shall have no obligation for funding.

(Applicant) shall provide and deposit with the Town in a trust fund account all funds required for federal/provincial/local funding. Such funds shall be held by the Town and expended by the Town in accordance with the terms of the federal/state/local funding. This agreement shall not make the Town responsible for any funding of the project either in development or maintenance.

(Applicant) will submit an annual report to the Town to verify volunteer hours donated for maintenance.

(Applicant) or the Town may terminate this agreement at any time by giving written notice to the Town at least _____ days prior to such termination.

If the Town determines that (Applicant) is not complying with its obligations as provided in this agreement, Town Council shall give written notice to the (Applicant) of the deficiency and the (Applicant) shall have not more than _____ days to correct such deficiency, and if not

TOWN OF LAKESHORE TRAILS MASTER PLAN

corrected to the Town's satisfaction, this agreement will be terminated at the end of such _____ day period.

(Applicant) shall comply with all applicable laws and regulations of the Province of Ontario, Town of Lakeshore and any conditions imposed by the use of federal/provincial funds.

Volunteers doing trail maintenance under this agreement shall be covered by Town insurance.

This agreement shall terminate _____ years after the date of signature unless otherwise terminated pursuant to the terms of this agreement or extended by mutual agreement of the parties. This agreement shall not be modified except in writing signed by the parties.

DATED this _____ day of _____, 200_____.

TOWN COUNCIL

By: _____
Mayor, Town of Lakeshore

ATTEST:

By: _____
Clerk, Town of Lakeshore

(APPLICANT)

By: _____
Name and Title

By: _____
Name and Title

TOWN OF LAKESHORE TRAIL PROJECT RECORD

Date: _____ Page: _____

Name of Project: _____ Code/No: _____

Coordinator/Phone No.: _____

Date	Name of Volunteer Or Group	Type of Work Performed	Hours	Expenses Reimbursed	Expenses Not Reimbursed	Notes

Totals - _____

*Note: Type of work performed such as construction, maintenance, administrative, etc.

Send completed forms to:

Town of Lakeshore Trail System
 Town of Lakeshore Trails Committee
 c/o Community and Development Services Department
 419 Notre Dame Street
 Belle River, ON N0R 1A0

TOWN OF LAKESHORE TRAIL MAINTENANCE SAFETY MEETING

Date: _____

Time: _____

Location: _____

Subject: _____

Items Discussed:

1. Use eyewear protection.
2. Must wear long pants.
3. Wear covered shoe/boot (not open toe shoes).
4. Use proper lifting techniques – especially while loading and unloading equipment.
5. Use dust mask in excessive dust.
6. Use hearing protection with loud equipment.
7. No smoking around equipment or gas cans. Shut off motors when refueling.
8. Apply sunscreen.
9. Keep plenty of water available, especially in warm/hot weather
10. If items catch in blades or other parts of equipment
11. Lifejackets and throwing ropes/rings are available and used:
 - a. Shut off equipment:
 - b. Use some type of tool or equipment to remove item:
 - c. DO NOT REACH INTO CLOGGED AREA WITH HANDS OR FINGERS.

Only the owner of power saws are allowed to use them and at their own risk. They are to stay at least fifty feet from other workers and use protective eyewear.

In Attendance: (copy of Safety Report provided to each person in attendance):

_____	_____
_____	_____
_____	_____
_____	_____

Conducted By: _____ Date: _____

TOWN OF LAKESHORE TRAILS MAINTENANCE REPORT

Trail Name/Number: _____

Name of Volunteer: _____

Address: _____

Organization Represented: _____

Date: _____ Number of Hours: _____

Trail Boss (if any): _____

Section of Trail Covered: _____

Approximate Length of Trail Maintained: _____

Remarks (Please note any conditions that should be addressed)

Vegetation: _____

Trail Tread: _____

Drainage: _____

Signs: _____

Parking Area: _____

Other: _____

Signature

Thank you for donating your time toward trail maintenance. Your assistance is greatly appreciated.

TOWN OF LAKESHORE WAIVER OF LIABILITY

(TRAIL MAINTENANCE OR CONSTRUCTION)

WAIVER OF LIABILITY

All members and/or volunteers participating in any trail maintenance or construction activities sponsored by _____, agree to accept personal responsibility for their own conduct and well-being, and knowingly accept the possible hazards incidental to activities in the outdoors. Each member and/or volunteer further agree to hold harmless and free of any blame the trail supervisors and officer of _____ for any incident, injury or illness that they might incur or sustain from their own participation while on this trail project. They further agree that this acceptance on their part is binding on their heirs and assigns.

I have read this and voluntarily agree and accept the above rule and waiver for myself and my heirs and assigns as attested to by my signature below.

Signed: _____

Date: _____

DEDICATION/ACCEPTANCE LANGUAGE

When there is an offer of a dedication of right-of-way to include a transfer of ownership (fee simple) within a subdivision plat area, the following language is preferred:

“This subdivision plat sets forth the location and gives the dimensions of the roadway(s) and non-motorized multi-use trail(s) hereby dedicated to the Public of the Town of Lakeshore”.

When an easement within a subdivision plat area is granted for the purpose of a trail, the following language is preferred:

“Easements are hereby granted to the Public of the Town of Lakeshore within the areas of this subdivision plat located and described as “trail easement” for the purpose of public non-motorized multi-use trail(s).”

When an easement is granted where the property is located outside of a subdivision area, the following easement form is preferred:

EASEMENT

Recorded at the request of:

Town of Lakeshore Department
c/o Community and Development Services Department
419 Notre Dame Street
Belle River, Ontario N0R 1A0

Assessor’s Parcel # Parcel

THIS IDENTURE, made this _____ day of _____, 200____,

By and between

<Name1> and <Name 2>, <Title>

<Address>

Hereinafter designated the "Grantor" and the PUBLIC, BY THE TOWN OF LAKESHORE, and its successors, hereinafter designated as the "Grantee."

RECITALS:

The Grantee requires a right-of-way over and perpetual easement to a parcel of land belonging to the Grantor, upon which the Grantee may construct and maintain hereafter a public non-motorized multi-use trail, and all incidents thereto, together with the right to authorize, permit and license the use thereof for public purposes not inconsistent with its primary use as a public trail.

The Grantor does hereby grant to the Grantee a perpetual easement for such purposes, subject, however, to the reservations, provisions and conditions hereinafter contained, and said Grantor does hereby approve the location of said trail and consents to the establishment thereof over said land; and does hereby release the said Town of Lakeshore from, and waives all claims for damage or compensation for and on account of the establishment and construction of said public trail other than set forth herein.

CONSIDERATION:

In consideration of the premises, covenants, and conditions to be kept and performed by the Grantee and the further consideration of the sum of One dollar (\$1.00), and other good and valuable consideration, receipt whereof is hereby acknowledged, the Grantor does hereby grant a perpetual easement and does by these presents convey to the use of the Grantee forever, that certain strip, tract, or parcel of land and real estate situated in the Town of the Lakeshore, and more particularly described as follows:

<Legal Description> or <"See Attached Exhibit A">

TO HAVE AND TO HOLD the same forever, provided that the Grantee complies with, keeps, and carries out the following stipulations and conditions which run with and are attached to over, upon and across lands of the Grantor that may be required for the purpose of, or in the all right and interest granted herein:

CONDITIONS:

1. That said parcel of land shall be used for no other purposes than those herein set forth.
2. That the Grantee shall and will repair any improvements belonging to the Grantor that may be damaged by the Grantee during the construction of said trail.

THAT ALL GRANTS, COVENANTS AND PROVISIONS herein contained shall be binding on and inure to the benefit of the heirs, successors, and assigns of the parties hereto.

TOWN OF LAKESHORE TRAILS MASTER PLAN

IN WITNESS WHEREOF, this instrument has been duly signed and executed by the Grantor the day and year first above written.

<<Name1>>

<<Name2>>

TOWN OF LAKESHORE

)ss

This instrument was duly acknowledged before me this _____ day of _____, 200____, by _____ for the purpose and consideration therein mentioned.

ACCEPTED AND APPROVED:

Mayor, Town of Lakeshore

ATTEST:

Clerk, Town of Lakeshore

)ss

Acknowledged before me _____ this _____ day of _____, 200____, by _____

QUIT CLAIM DEED

Recorded at the request of:

Town of Lakeshore,
Community and Development Services Department
419 Notre Dame Street
Belle River, Ontario N0R 1A0

Assessor's Parcel #

KNOW ALL MEN BY THESE PRESENTS:

For and in consideration of the sum of TEN DOLLARS (\$10.00) AND OTHER GOOD AND VALUABLE CONSIDERATION, THE UNDERSIGNED, <Property Owner Name (s)>, <Title>, hereinafter called "Grantor," hereby quit claim to THE PUBLIC, BY THE TOWN OF LAKESHORE, and its successors, and assigns,

hereinafter called "Grantee," for public non-motorized multi-use trail purposes, the following described property situated in the Town of the Lakeshore, Ontario Canada, TO WIT:

<Legal Description> or <"See Attached Exhibit A">

)ss

Town of Lakeshore)

The foregoing quit claim deed was acknowledged before me this _____ day of _____, 200 _____, by _____

Clerk, Town of Lakeshore

WARRANTY DEED

Recorded at the request of:

Town of Lakeshore
Community and Development Services Department
419 Notre Dame Street
Belle River, Ontario N0R 1A0

Assessor's Parcel # <<Parcel>>

For the consideration of TEN DOLLARS (\$10.00), and other valuable considerations, <<Name1>> and <<Name2>>, <<Title>>, hereinafter called "Grantor," and as owners, hereby convey to the PUBLIC, BY THE TOWN OF LAKESHORE, a Body Politic, and its successors, and assigns, hereinafter called "Grantee," for a public non-motorized multi-use trail, the following real property situated in the Town of Lakeshore, together with all rights and privileges appurtenant thereto:

<See Exhibit "A": Attached hereto and made a part hereof>

TOGETHER WITH all improvements situated thereon.

Subject to current taxes and other assessments, reservations in patents and all easements, rights of way, encumbrances, liens, covenants, conditions, restrictions, obligations and liabilities as may appear of record, the Grantor warrants the title against all persons whomsoever.

<<Name1>>

<<Name2>>

Town of Lakeshore)

This instrument was acknowledged before me this _____ day of _____, 2000 _____, by

Town Clerk

TOWN OF LAKESHORE TRAIL POLICY

Adopted by the Town of Lakeshore Council, _____, 2006.

The Town shall establish a comprehensive public trail system based on a currently approved Trails Master Plan.

The objectives shall be:

- Provide multi-use, non-motorized vehicle recreation and leisure opportunities within the system, including pedestrian, equestrian, bicycle and special needs trails.
- Motorized trails are not specific to the Trails Master Plan and shall only be considered in a special designated area, if and as approved by Town Council.
- Connect via trails to existing or planned trails.
- Preservation of historic trails integral to the overall trail plan.
- Connect via trails major community recreational and public facilities.
- Coordinate the Town trail system with the existing trails and trail plans of the cities and towns adjacent to the Town of Lakeshore.

The Town shall prepare and adopt a comprehensive Trail Master Plan to accomplish these objectives. This Plan shall map the planned trail system and establish the proposed functions and uses of the various trails within the system.

Policies which shall guide the Town's role in establishing this trail system and trail plan shall include:

- The Town will develop and accept public trails in compliance with the adopted Master Plan.
- All new developments shall be encouraged to comply with the adopted Trail Master Plan. The Town shall establish ordinances or regulations necessary to implement this policy objective. Town Council shall determine overall budgetary priorities and annual allocations, if any, for this program.
- The Town strongly encourages community partnerships for acquisition, improvement(s) and maintenance of this system. However, the absence of a third-party agreement for acquisition, improvement or maintenance shall not be cause

TOWN OF LAKESHORE TRAILS MASTER PLAN

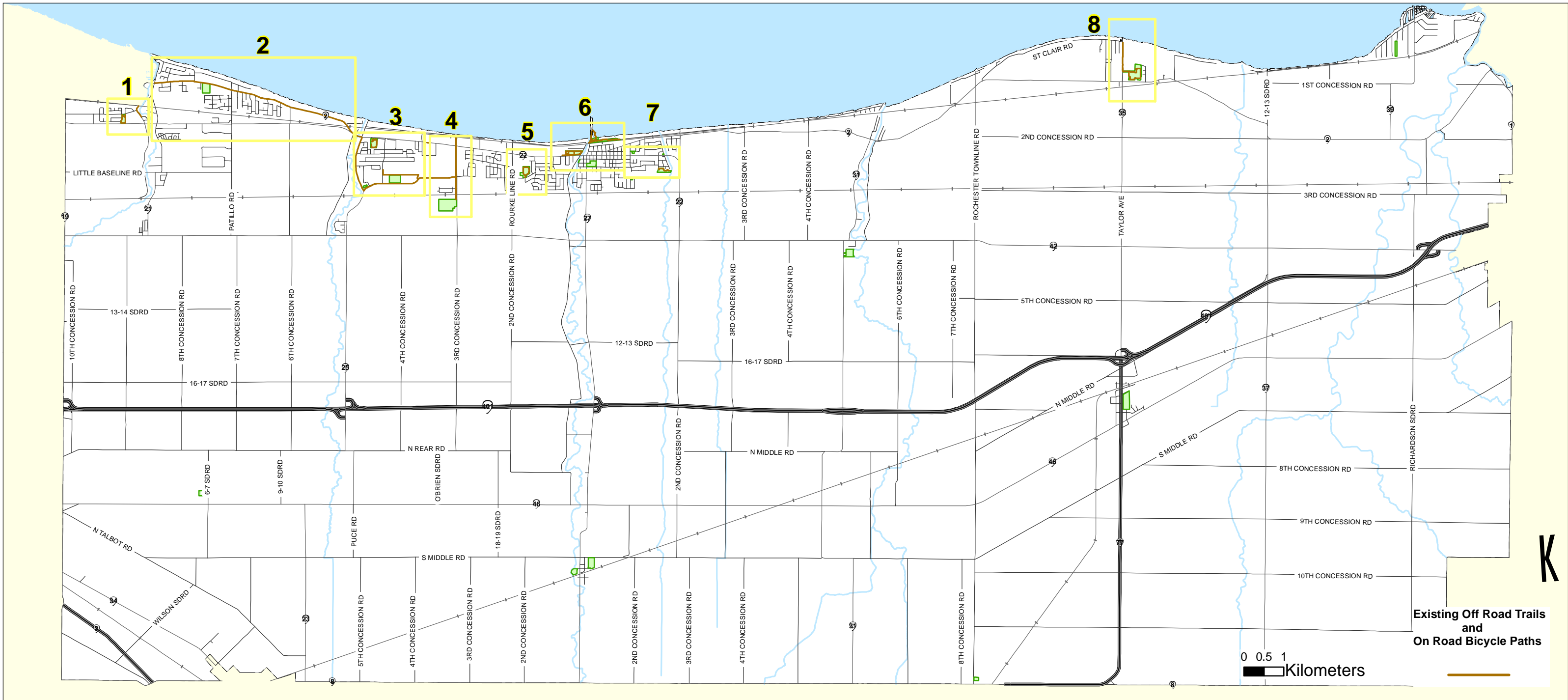
for the town to reject acceptance of a proposed trail which is in compliance with the adopted trail strategy.

- All trails incorporated in the Town Trail System shall be open to the public.
- Prior to the adoption of the Town Trails Master Plan, the Town shall comply with the intent of this policy regarding potential trails and will continue to use the adopted Lakeshore Trails map as a resource document in reviewing development proposals until the Trails Master Plan is completed.
- Proposed trails not included with the Adopted Trails Master Plan shall be submitted to the Community and Development Services Department and Town Council for review and consideration as an amendment to the Trail Master Plan.
- Upon adoption of this Trail Policy, Town Council will appoint a Trails Planning Committee.

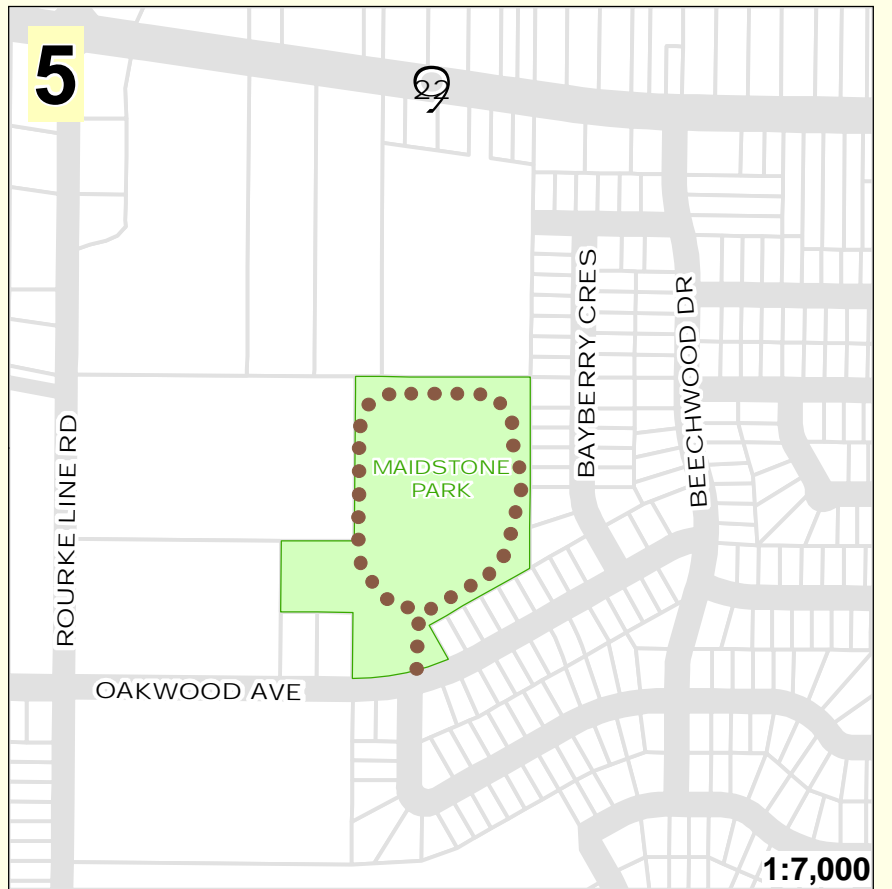
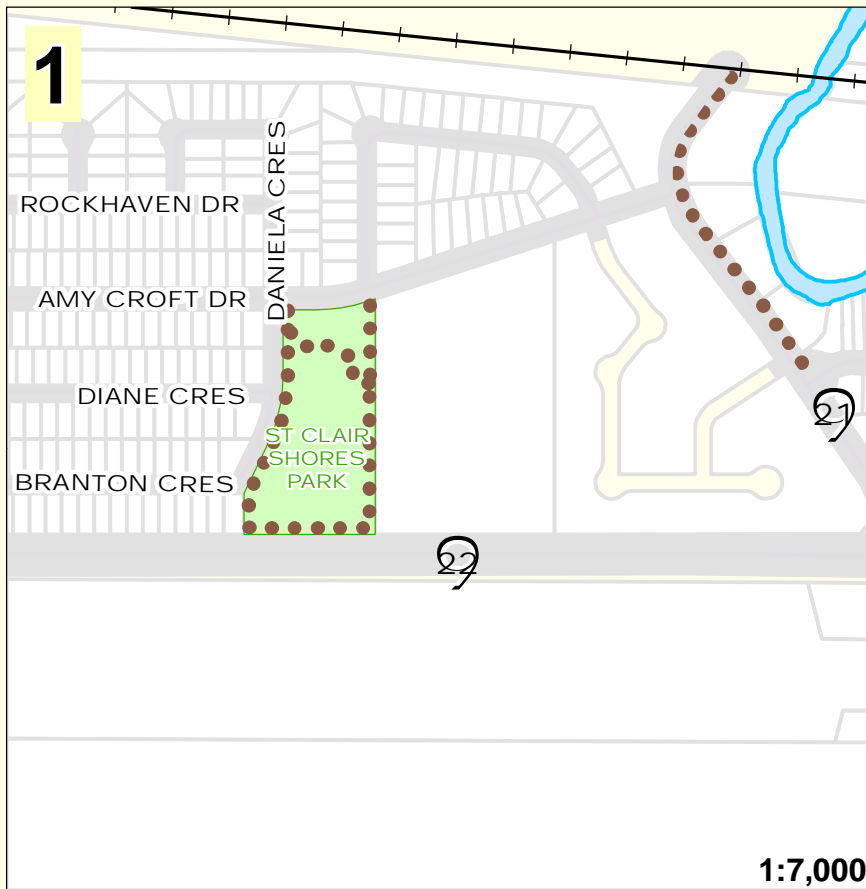
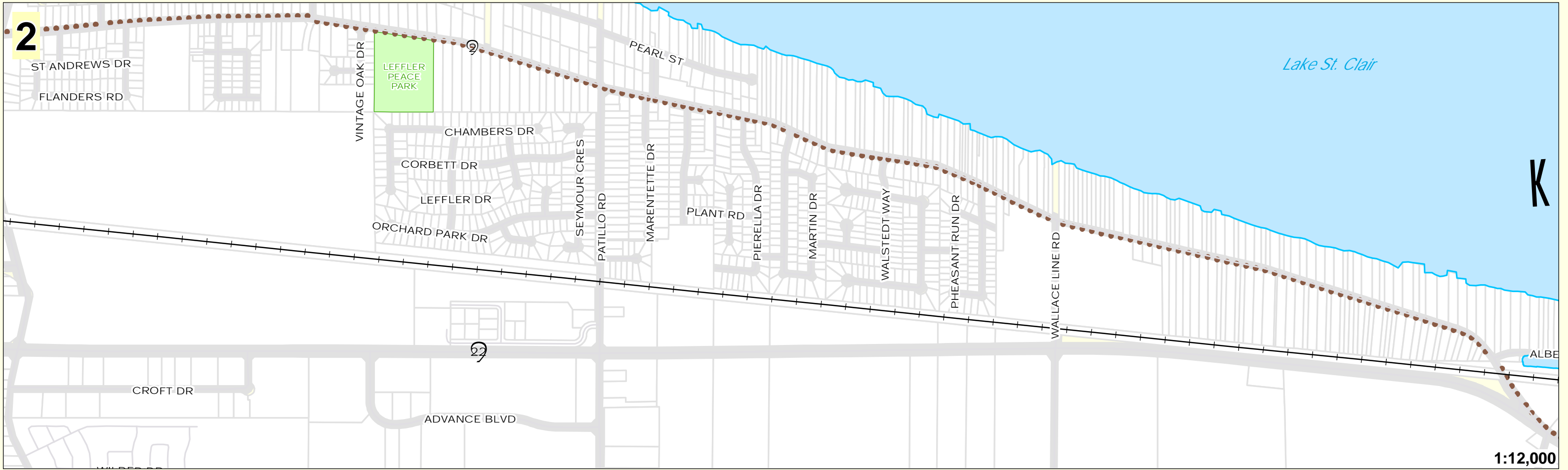
APPENDIX C

TRAIL MASTER PLAN MAPPING

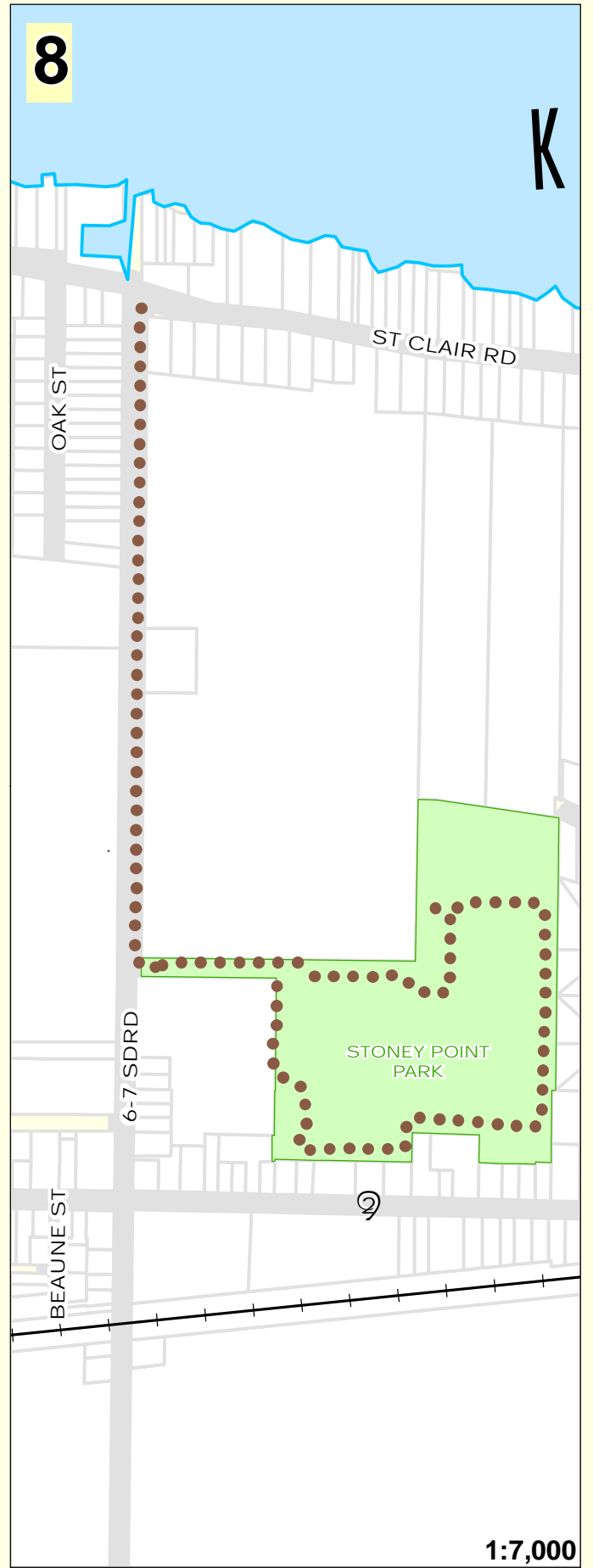
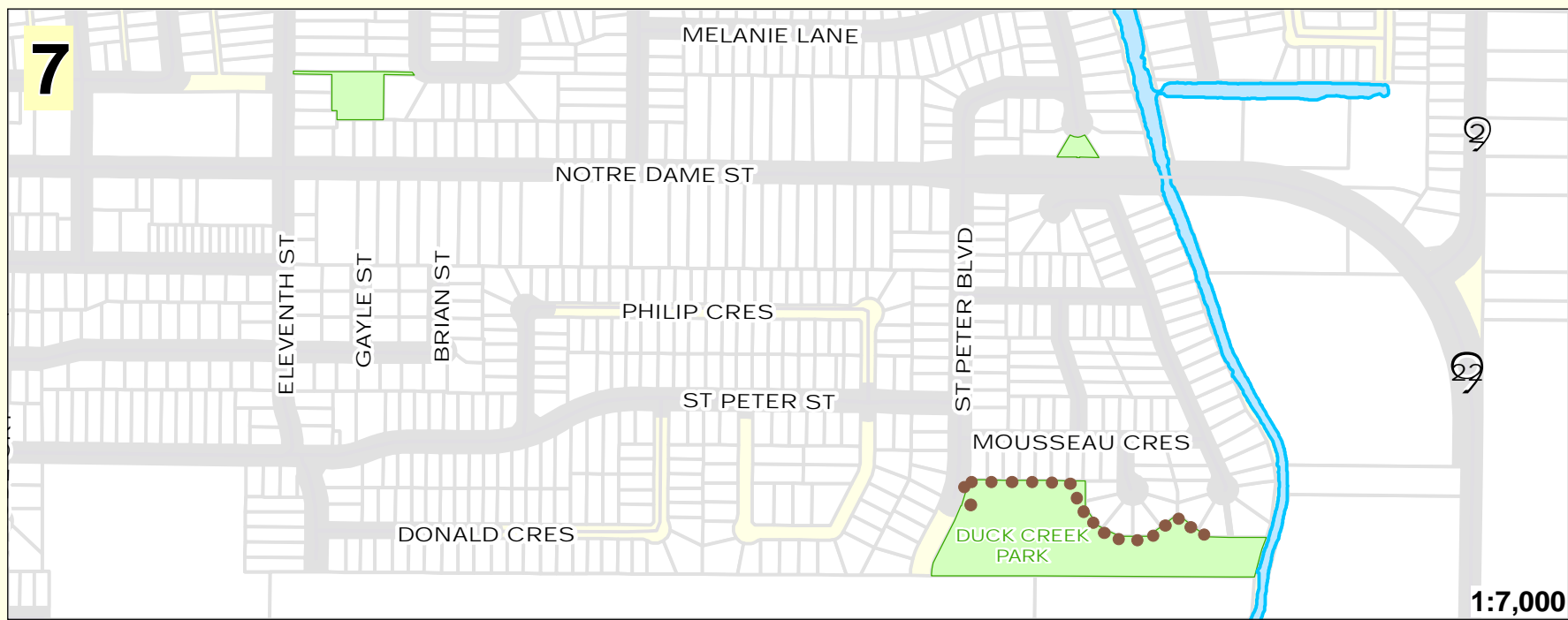
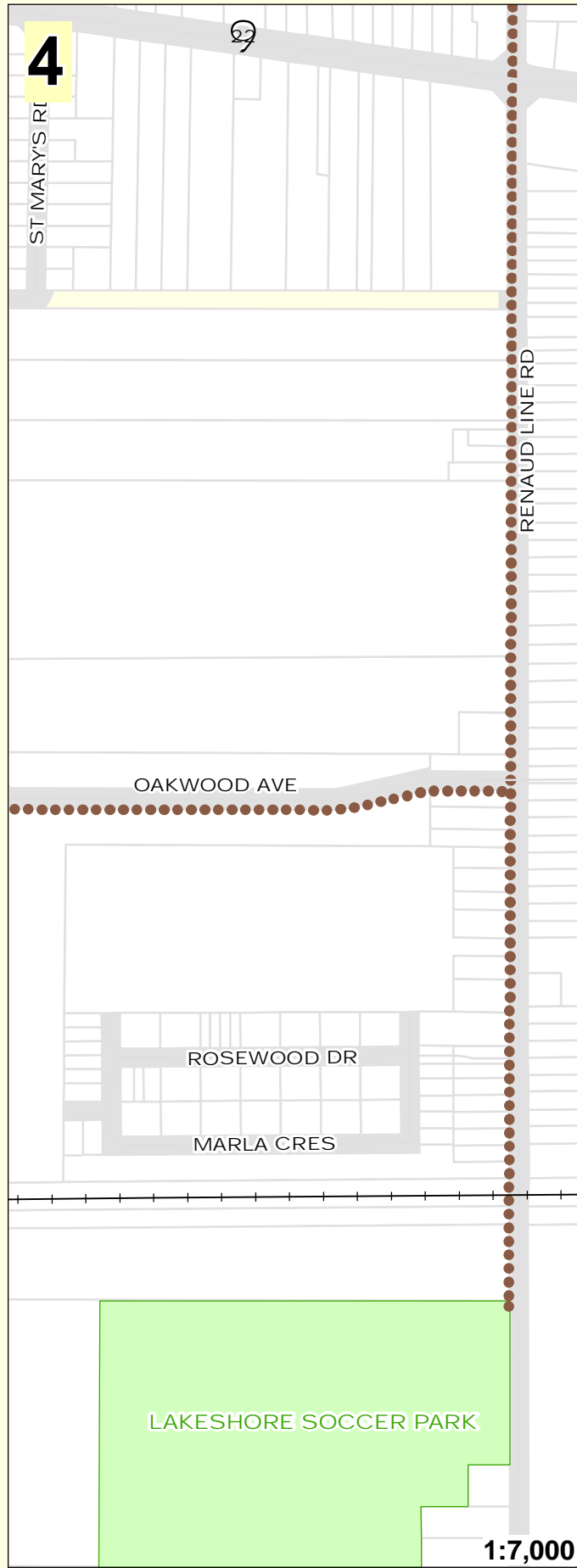
Town of Lakeshore Trail Master Plan Existing Off Road Trails and On Road Bicycle Paths - Within Urban Areas



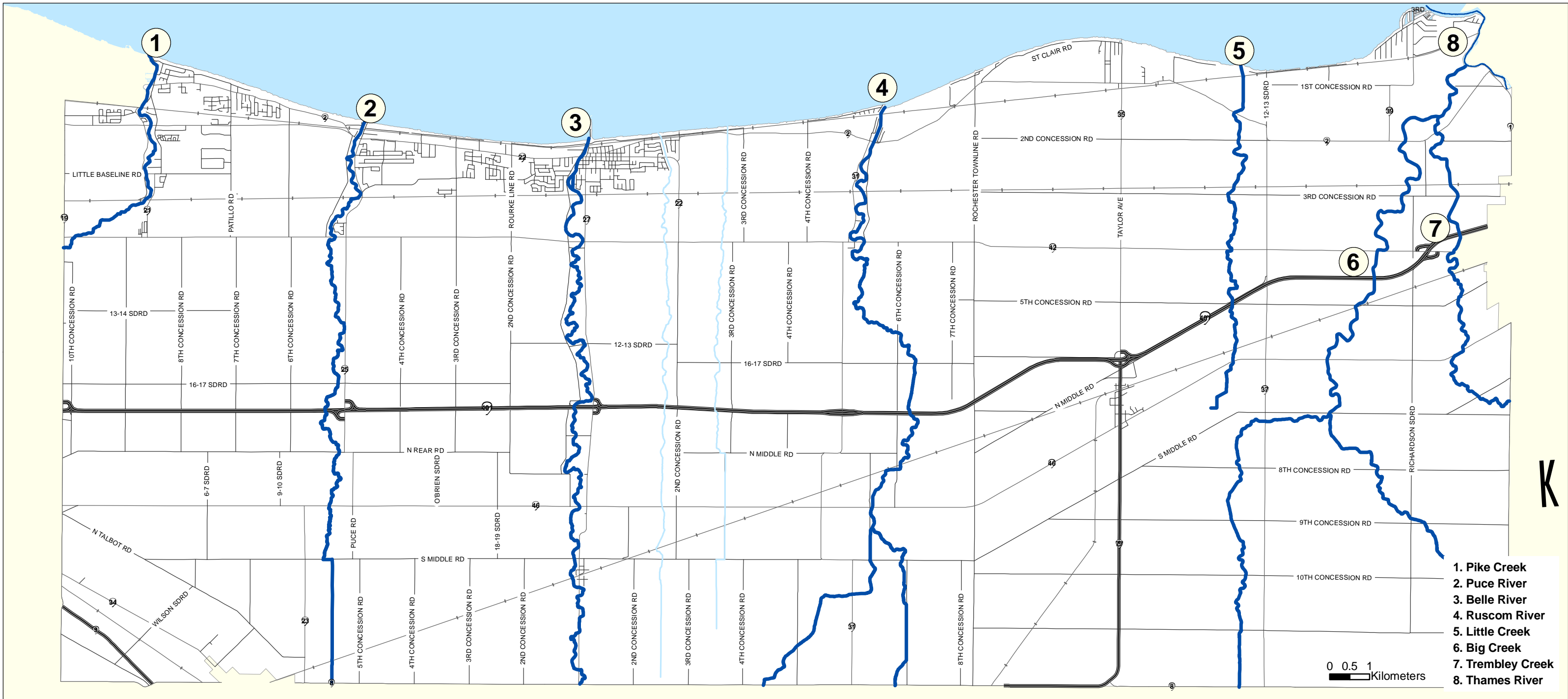
Town of Lakeshore Trail Master Plan Existing Off Road Trails and On Road Bicycle Paths - Within Urban Areas



Town of Lakeshore Trail Master Plan Existing Off Road Trails and On Road Bicycle Paths - Within Urban Areas

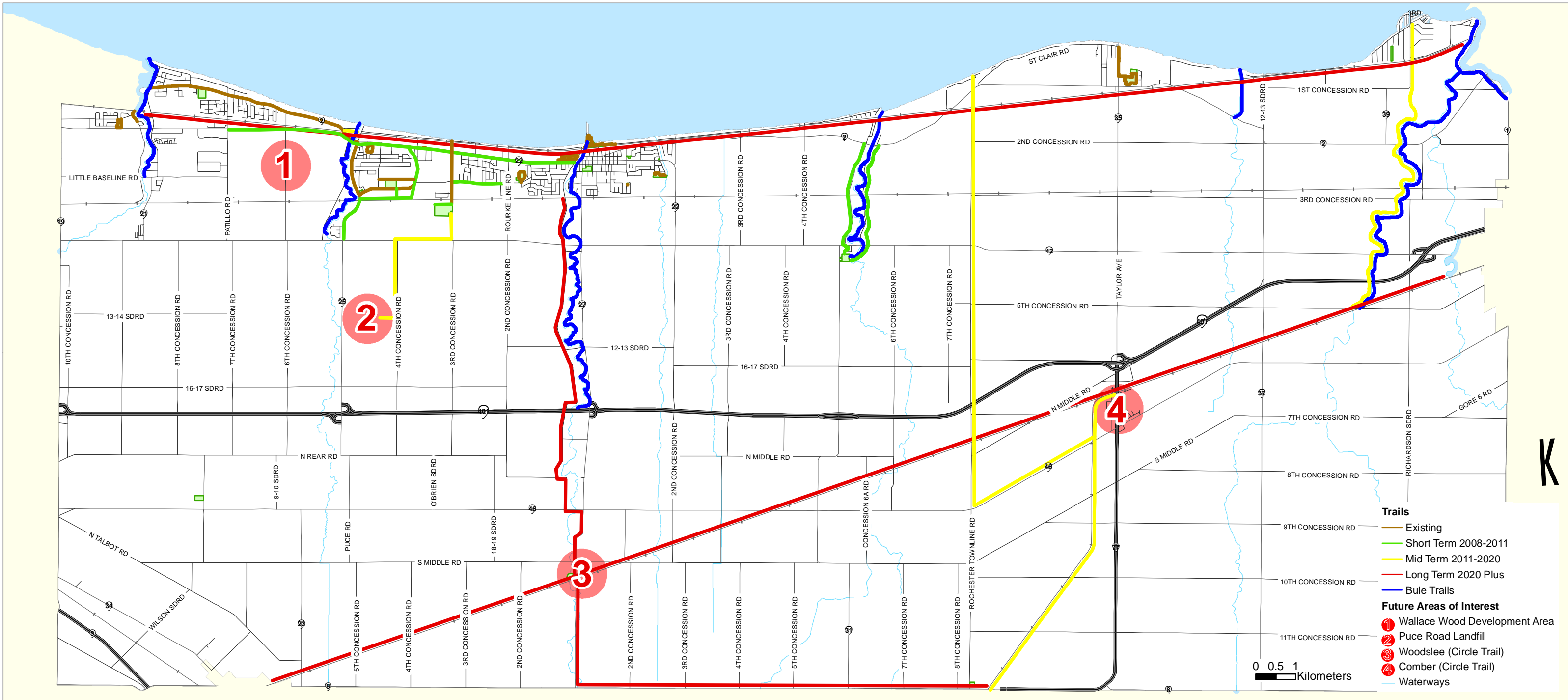


Town of Lakeshore Trail Master Plan Potential Water Routes - Blue Trails

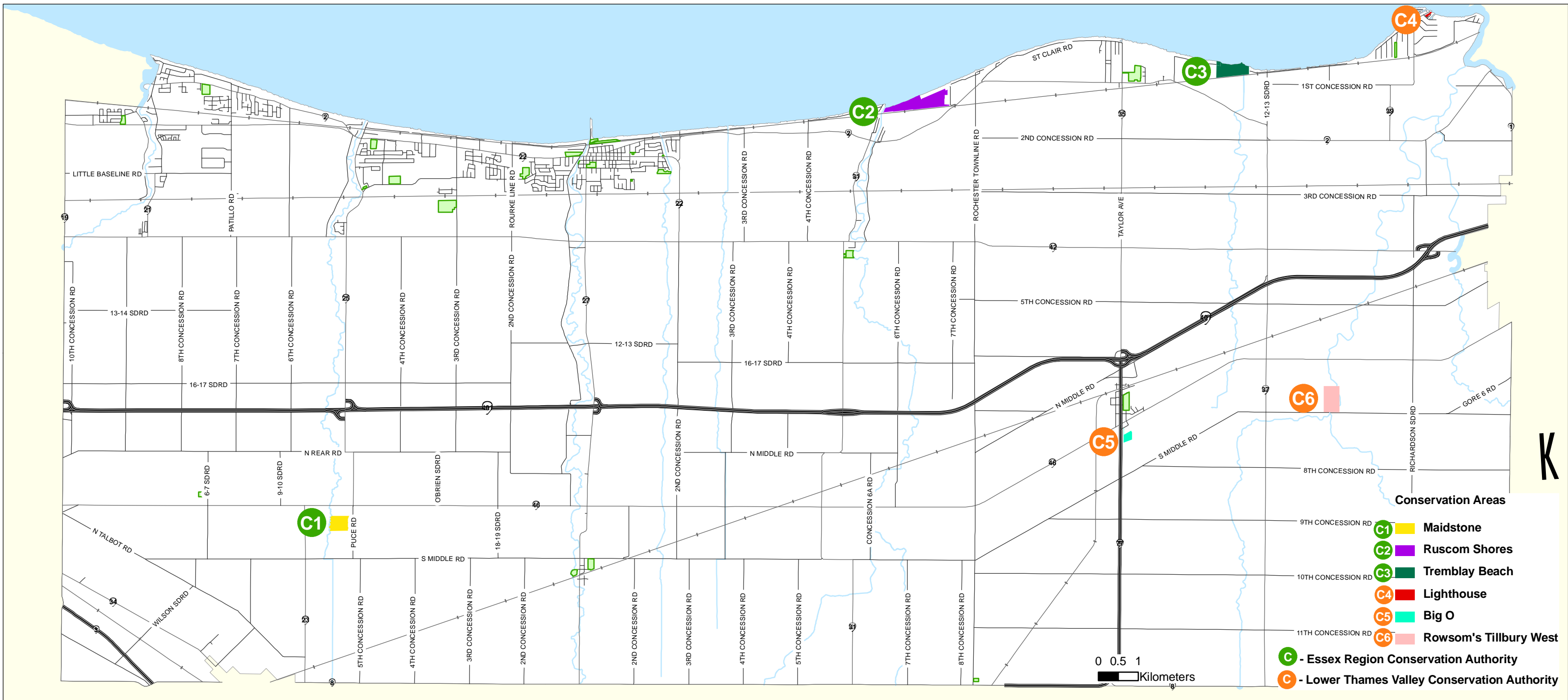


1. Note – Not all water routes are accessible for their full length. Some water routes are only accessible on a seasonal basis
2. Access points and trail heads for water routes are under review

Town of Lakeshore Trail Master Plan Trail Implementation Priorities - 2008 to 2020



Town of Lakeshore Trail Master Plan Conservation Authorities, Trails Location Map



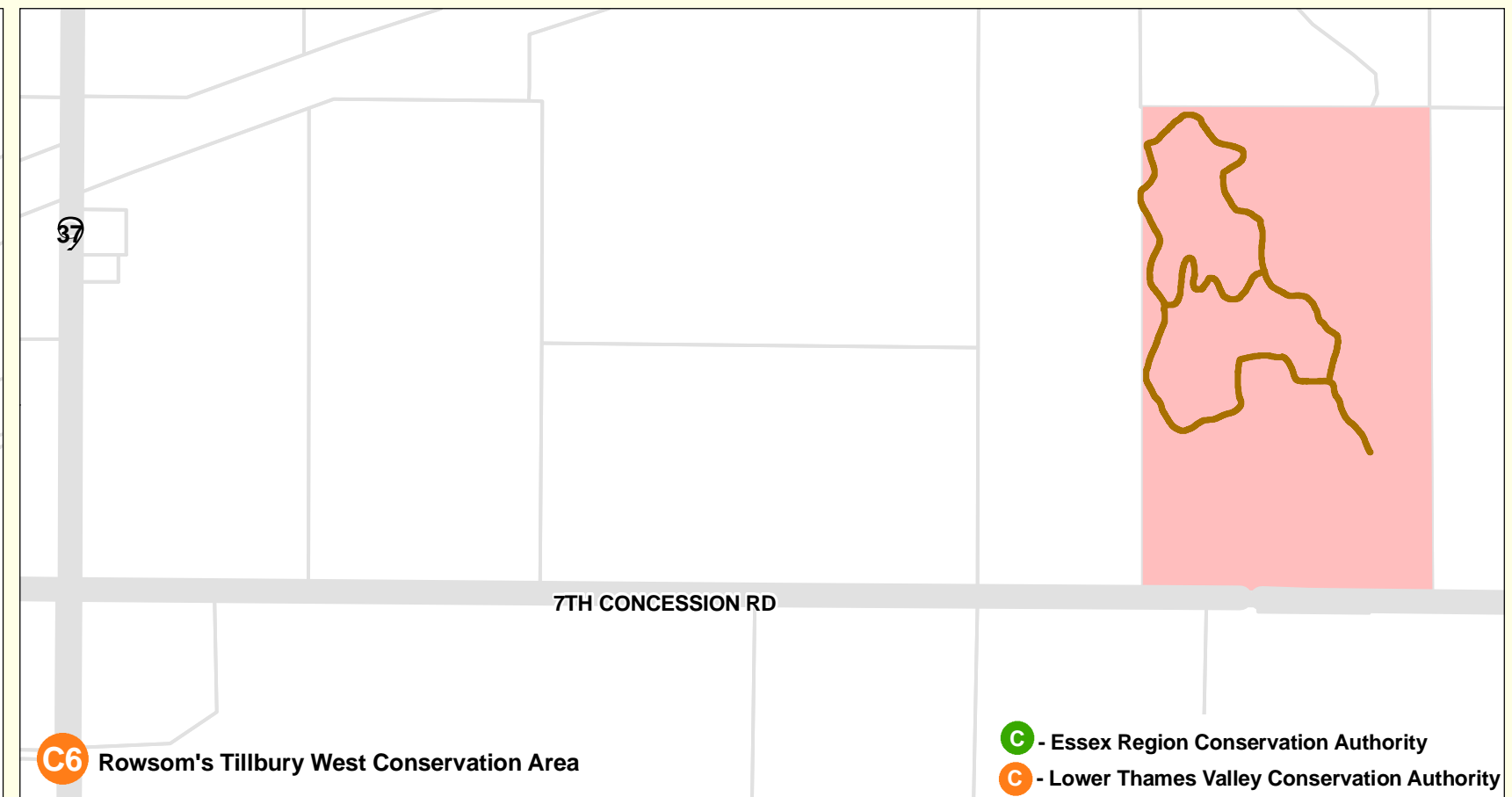
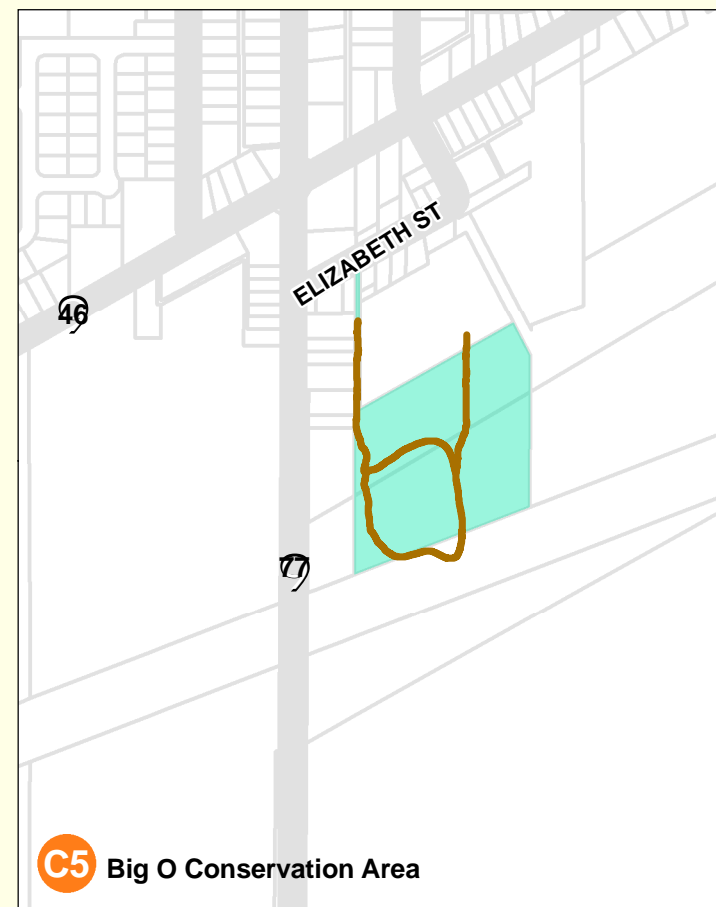
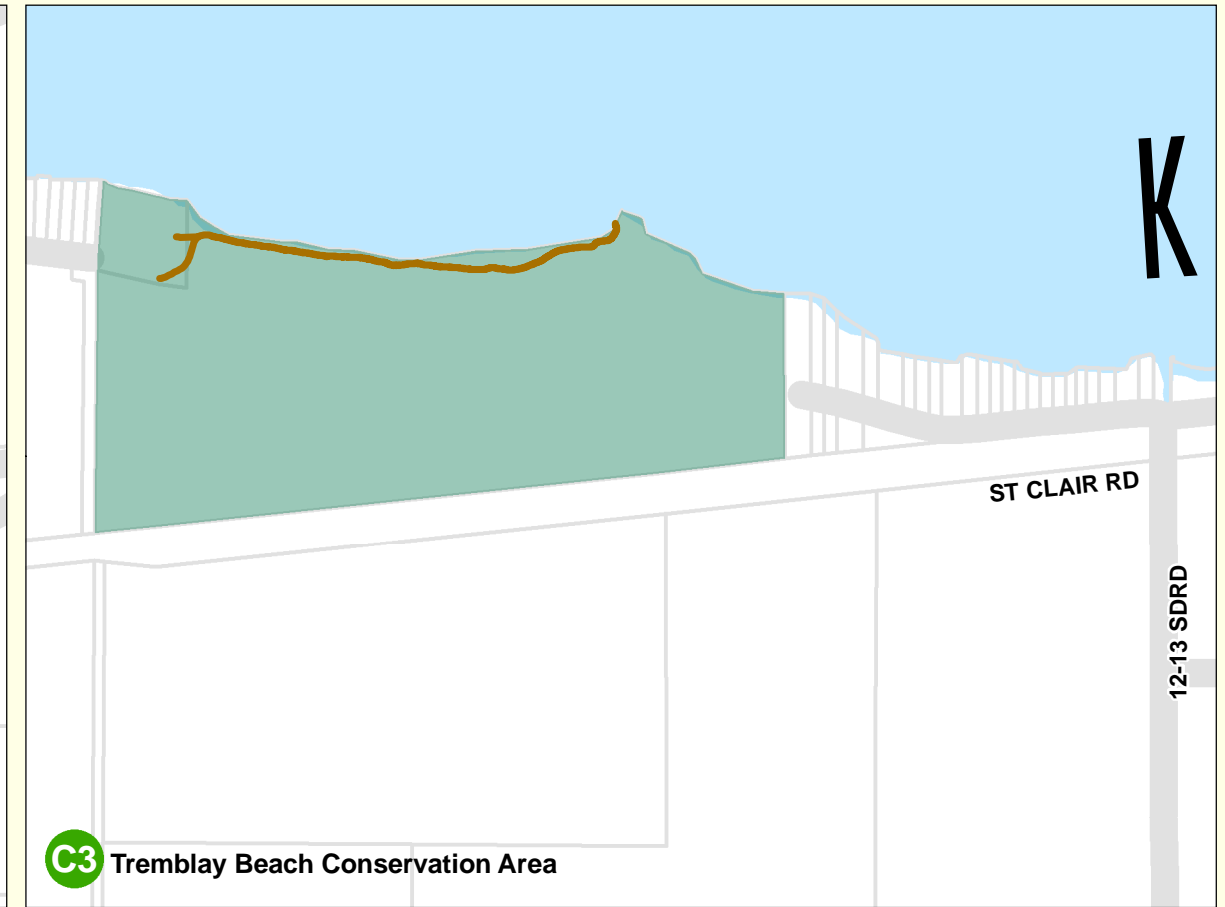
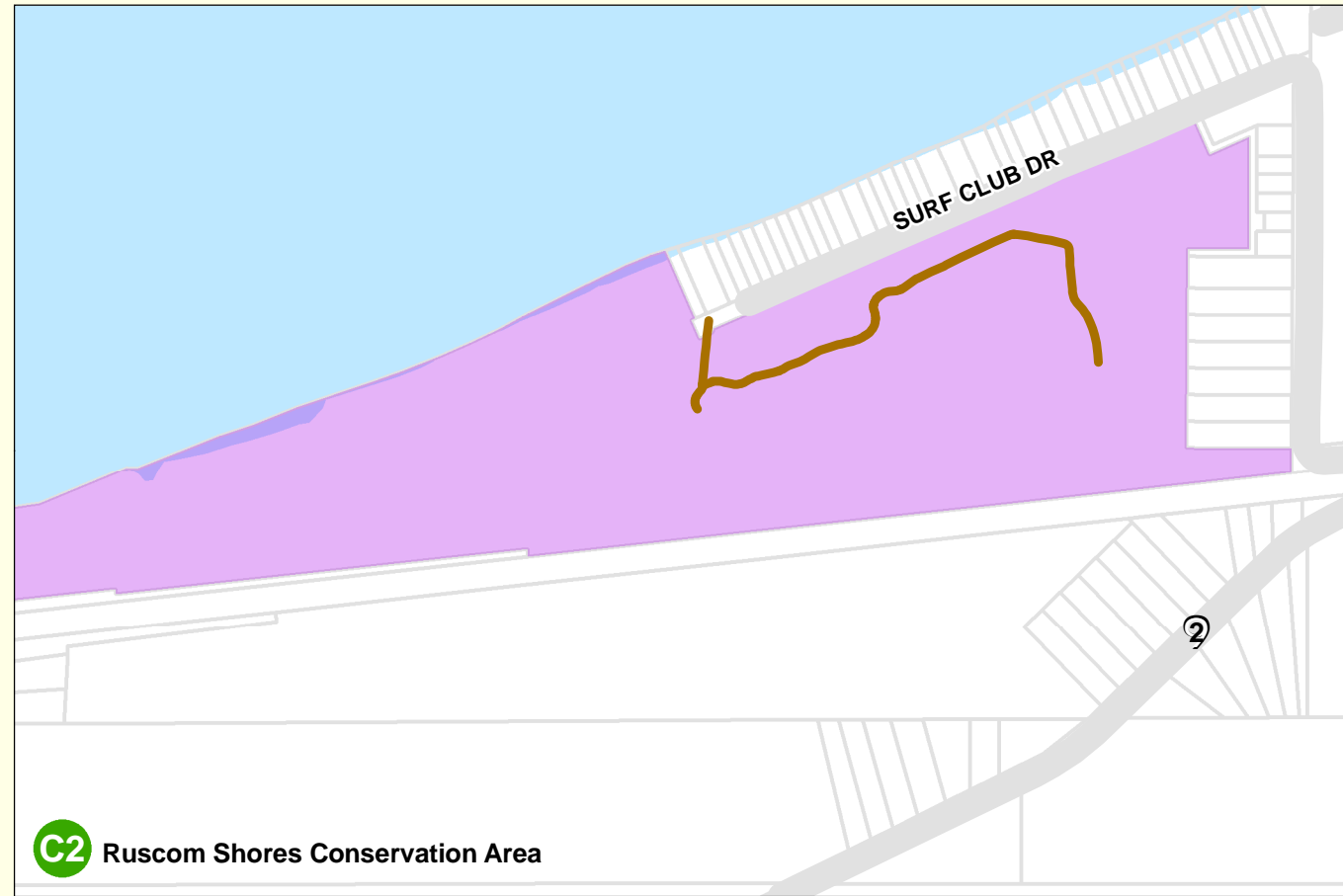
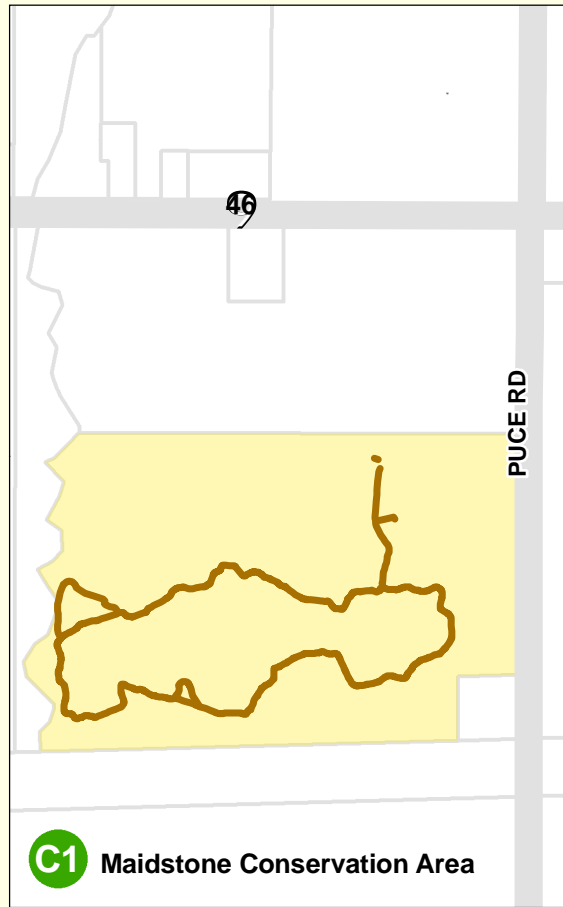
Conservation Areas

- C1 **Maidstone**
- C2 **Ruscom Shores**
- C3 **Tremblay Beach**
- C4 **Lighthouse**
- C5 **Big O**
- C6 **Rowson's Tillbury West**
- C - **Essex Region Conservation Authority**
- C - **Lower Thames Valley Conservation Authority**

0 0.5 1
Kilometers

K

Town of Lakeshore Trail Master Plan Conservation Authorities, Trails Location Map



C - Essex Region Conservation Authority
C - Lower Thames Valley Conservation Authority

APPENDIX D

TRAIL EVALUATION CRITERIA

Trail Evaluation Criteria	
Factor	Evaluation Criteria
Social Benefits and Impacts	<ul style="list-style-type: none"> • Does the route provide significant connections between existing off-road trails? • Does the route provide significant connections to or between planned trails? • Does the route form a logical part of a Town-wide network? • Does the route create a connection with surrounding municipalities, provincial or national trails? • Does the route provide potential connections to other modes of transportation? • Is there another route nearby that performs the same function? • Does the route provide access to major recreational or school destinations? • Does the route provide a critical connection across watercourses? • Where routes cross watercourse barriers, can this be accomplished in a safe manner? • Where routes are located within a road right of way is there potential for significant turning movement conflicts? • Does the location of the route result in the potential for increased user conflicts? • Does the routing provide opportunities for a variety of abilities and skill? • Does the location of the route have negative impacts on existing, or future abutting land uses that cannot be effectively managed? • Does the route provide quality opportunities to educate users about the natural, cultural and visual character of Lakeshore? • Does the route promote opportunities for local residents to explore their own neighbourhood or the Town by an alternative mode of transportation?

Trail Evaluation Criteria	
Factor	Evaluation Criteria
Economic Benefits	<ul style="list-style-type: none"> • Is the initial construction cost acceptable based on the location or technical requirements of the construction? • Are the ongoing maintenance costs acceptable based on the location or initial design? • Can the construction be included as part of other public or private construction initiatives, thereby resulting in cost saving? • Does the route provide partnership opportunities for the planning and design, and construction or maintenance of the trail? • Does the route have the potential to attract visitors to the Town, or to keep them here longer? • Does the routing have the potential to attract new developments, people or investment?
Environmental Benefits	<ul style="list-style-type: none"> • Does the route have unacceptable negative impacts on terrestrial or aquatic communities that cannot be mitigated or effectively managed? • Does the trail route provide opportunities to improve or enhance terrestrial or aquatic communities that might not otherwise be possible? • Does the route provide opportunities for residents to substitute travel by car with walking and biking opportunities?