

East Ferris Active Transportation Master Plan - "Draft"



East Ferris Active Transportation Task Force 2021

NOTE

THIS IS A DRAFT PLAN PREPARED FOR MUNICIPALITY OF EAST FERRIS STAFF COMMENTS AND ALSO FOR PUBLIC COMMENTS IN ONE OF TWO WAYS:

• IN PERSON ON TUESDAY NOVEMBER 2ND AT THE EAST FERRIS COMMUNITY CENTRE FROM 4PM TO 8PM

BY WRITTEN SUBMISSION TO GREG KIRTON, MUNICIPALITY OF EAST FERRIS MANAGER OF PLANNING AND ECONOMIC DEVELOPMENT
 GREG.KIRTON@EASTFERRIS.CA

TABLE OF CONTENTS

INTRODUCTION

Task F	orce	5
 Scope. 		6
EXISTING CO	NDITIONS: WHERE IS ACTIVE TRASNPORTATION AT IN EAST FERRIS	
• History	y	7
• Trends	5	8
 Input 		9
0	Community	9
0	Citizens	10
0	Stakeholders	12
0	Municipal Infrastructure	13
0	Municipal Policies	17
• Key Th	iemes	20
FUTURE CON	DITIONS: WHAT WE WANT TO ACCOMPLISH	
Vision,	, Goals, Strategies, Objectives	21
Netwo	rk Planning	22
0	Guiding Principles	22
0	Alternatives	26
0	Priorities	32
WHEN AND H	IOW WE WILL ACCOMPLISH OUR VISION	
Impler	nentation Strategy	36
0	Traffic Calming	36
0	Toolkit	39
0	Timeframe	45
 Impler 	nentation Plan	46
0	Network	46
0	Costing	48
0	Plan & Budget	50
0	Funding	54

CONCLUSIONS & NEXT STEPS

REFERENCES

LIST OF TABLES

	Table 1: Citizens Input	10
	Table 2: Park, Recreation & Culture Survey Results	11
	Table 3: Stakeholder Input	12
	Table 4: East Ferris Road Network	13
	Table 5: East Ferris Trail Network	15
	Table 6: Municipal Policies	17
	Table 7: Key Themes	20
	Table 8: Road Network Issues & Opportunities	27
	Table 9: Trail Network Issues & Opportunities	31
	Table 10: Route Selection Criteria	32
	Table 11: Trail Selection Criteria	33
	Table 12: Roads Listed by Priority	34
	Table 13: Trails Listed by Priority	35
	Table 14: AT Network of Roads & Trails	45
	Table 15: AT Network Estimated Unit Costs	48
	Table 16: Implementation Plan Budget	50
	Table 17: AT Network Funding	54
L	IST OF FIGURES	
	Figure 1: Voyageur Cycling Route / Véloroute	16
	Figure 2: Big Moose Road Trailhead Kiosk	16
	Figures 4-6: Signed Bike Route	24
	Figures 7-9 5: Two-Way Boulevard Multi-Use Trails	25
	Figure 10: MTO Paved Shoulder Widths	26
	Figure 6: Traffic Calming Measures	39
	Figure 7: Network Maps	46

Introduction

The Municipality of East Ferris is creating an Active Transportation Master Plan (ATP) – a long-term policy document that boldly leads East Ferris into a new era of active transportation. The ATP refers to active transportation as involving "pedestrians and cyclists" and activities defined as "walking and cycling." **In doing so, it does not preclude active transportation by assisted devices or by other forms such as running and in-line skating**. The ATP sets out goals and objectives, proposes the development of active transportation facilities over 20 years, and recommends changes to related municipal plans and policies. It proposes an increase in the annual AT reserve of \$___(tbc). This is the first ATP prepared by the municipality to advance its vision of a vibrant and healthy rural community. The ATP does not bind the municipality to specific investments, it is simply a roadmap to a future where every AT trip in East Ferris feels enjoyable, safe and convenient.

TASK FORCE

A working group was formed consisting of expert walkers and cyclists: Rod Bilz, Denise Beaupré, Mike Burke, Shona Camirand, Tim Foster, Greg Kirton, Donna Maitland and Pauline Rochefort. The terms of reference were clarified and reporting dates established.



SCOPE

To define the scope of planning, the Task Force started at the beginning with questions such as :

- Is this the first ATP for East Ferris?
- What data exists on walking and cycling rates in East Ferris?
- Does East Ferris have an existing network of pedestrian and bike routes?
- Do the municipality's current policies, regulations, and road design standards take into account the needs of non-motorized road users?
- Is there political support for walking and cycling in our community? If so, to what extent?
- Should there be a specific plan for pedestrians and a plan for cyclists or a mixed-use plan?

Overall, it was felt that the ATP should be modest and reasonable, based on the resources of the municipality, so it should be a mixed-use active transportation network, meaning a network that serves both pedestrians and cyclists. The Plan could include a few more complex projects to be completed over the course of an extended implementation plan:

- short- term actions by 2023;
- near-term actions by 2026;
- medium-term actions by 2031 and;
- longer-term actions by 2041.

The working group then developed the ATP over ten months.

- January 2021 April: The current active transportation environment was examined to understand WHERE the Municipality is in terms of active transportation. Comparable communities and best practices were researched.
- May September: Active transportation issues, opportunities and constraints in East Ferris were explored to identify WHAT is important and a vision statement, goals and objectives were established.
- October December: Consultations were held to corroborate the recommendations in the draft plan. The ATP was then refined to include an implementation plan with timelines as to WHEN and HOW actions are completed to achieve the vision and goals.

HISTORY

East Ferris residents have been walking and biking for decades. Although never officially defined as active transportation, the following historical summary of accomplishments provides a snapshot of the status of active transportation in East Ferris.

- 1970 Snowmobiling became a popular activity in East Ferris and a network of trails developed on community lakes, public lands and private property. Walking became popular when major marathons were held to raise funds for the Corbeil Arena and Church.
- 1980s The Corbeil Conservation Area received provincial and municipal funding to develop what became the North Bay-Mattawa Conservation Authority Trail near the Corbeil Park Hall. Residents also developed a network of cross-country ski trails, which celebrated its grand opening in 1989 as the East Ferris X-Country Ski Club.
- 1990s Residents of MacPershon Drive began working to link pre-existing portage trails, old logging trails and random hunting trails located in Mattawa River Provincial Park to create a hiking trail that is now known as the Stepping Stones.
- 2000s Corbeil Road was upgraded and the Municipality ensured that a wider shoulder was paved. The Ministry of Transportation (MTO) paved the shoulder of Highway 17 east from Centennial Crescent to Twin Lakes Road, allowing East Ferris residents to cycle to work in North Bay. The East Ferris roads have become a popular destination for area cyclists because, along with Callander, they offer convenient bike loops that take 2-3 hours to complete from North Bay. For a few years, the Northlander train promoted cycling tours from Toronto that included East Ferris loops.
- 2010s The East Ferris Voyer Trail Steering Committee was formed and, with the participation of the East Ferris Knights of Columbus and Discovery Routes, cleared and widened an existing trail connecting in part to the Pinewood Park and Birch's Road area of North Bay. East Ferris residents advocated for the Voyageur Bike Route in the community, which resulted in the installation of wayfinding signs and a bicycle support kiosk at Big Moose Beach Park, with support from the Municipality. When Highway 94 was repaved, the Municipality was successful in obtaining wider shoulders. OPP programs encouraged safe cycling at École Saint-Thomas d'Aquin and Ferris Glen School.

TRENDS

The continued emergence of active transportation in many communities is linked to broad trends that are impacting Canada as well as other jurisdictions around the world. Understanding these trends informs the decisions made here in East Ferris.

• Climate Impacts

The climate is changing and impacting Canada, and one of the biggest contributors is transportation. Globally, transportation accounts for a quarter of CO2 emissions. And most of the world's transportation networks are still vehicle-centric – cars, trucks, buses and motorcycles. Since 2000, Canada has seen a 50% increase in motor vehicle registrations, and this growth is accelerating. In 2019, Canada had the highest number of vehicle registrations ever recorded bringing the total to 35,742,412 registrations. According to the Canadian Automobile Association, there are now more vehicles on the road in virtually every community in Canada, and that includes East Ferris.

• Changing demographics

Over the past few decades, Canada has experienced demographic changes that have impacted transportation patterns: urban intensification, changing lifestyles and consumer preferences for public and active transportation options. There has been the emergence of all kinds of cyclists – commuters, hobbyists, runners, utility cyclists and all-season cyclists – as well as all kinds of walkers and joggers – strollers, power walkers and joggers, hikers and long-distance runners, long-distance walkers and marathoners. Then there is the aging of the population, with the number of people aged 65 and over expected to almost double in Ontario, from about 2.6 million, or 17.6% of the population in 2020, to almost 4.5 million, or 22.2%, by 2046. As they retire, they will increase in size and reshape the demographic character of rural areas like East Ferris.

Health Costs

Today, communities are facing rising health care costs, many of which are associated with preventable chronic diseases. Health Canada recommends at least 60 minutes of moderate to vigorous physical activity per day for children and youth and 150 minutes of moderate to vigorous physical activity per week for adults and seniors. According to ParticipACTION Canada's 2020 Report Card, few adults living in Canada meet the national guidelines; in fact, only 16% of adults are active enough to reap the health benefits associated with regular

physical activity. For youth, the report found that only 39% of children and youth are meeting the physical activity recommendation in the Canadian 24-hour movement guidelines. Walking and cycling are among the most basic forms of physical activity and help people reach recommended levels of physical activity, thereby reducing chronic disease and associated health care costs. Studies show that communities with high rates of walking and bicycling realize that conditions must be safe, enjoyable and convenient for people of all ages and physical abilities to participate.

• Planning

The emphasis on walking and cycling has increased dramatically in Canada with projects such as the Trans Canada Trail, the Share the Road program, community master plans and certification programs to promote pedestrian and cycling friendly communities, and major improvements to equipment and clothing. In 2021, the federal government released a National Active Transportation Policy: Canada's First Strategy to Promote the Construction and Use of Trails, Pathways and Bikeways. This policy follows on the heels of the Ontario Cycling Strategy #CycleON: A 20-year vision to promote cycling and cycling safety in Ontario. Provincial governments have established design guidelines and application information for active transportation infrastructure for jurisdictions of all sizes. Excellent examples include the recently released British Columbia Active Transportation Guide, MTO's Complete Street Planning and Ontario's Traffic Manual Book 18 on Cycling Facilities. Concepts such as "Vision Zero", "Complete Streets", "Traffic Calming" and "Universal Design" have emerged to refer to roadways that balance safety, access and comfort for users of all modes.

INPUT

Community

Consistent with the trends described above, in East Ferris the impetus for an ATP comes from the community as walking and biking are among the primary recreational activities. Historically, residents have turned to road shoulders for walking and biking, as well as trails on large agricultural properties and walkways connected to lake properties. East Ferris' road network is extensive, as East Ferris has evolved as a decentralized community with residents spread throughout the villages of Astorville and Corbeil and along the shores of Trout and Nosbonsing Lakes. Ensuring the safety of its road network is a priority for the Municipality. Road maintenance is a significant part of East Ferris' operational budget as 99.9% of residents commute to work or school by vehicle, with 86% of them requiring trips of 15 minutes or more. Annual traffic incidents, as reported by

the East Ferris Police Services Board, indicate an overall safe roadway system. At the same time, growth has resulted in more vehicles on East Ferris roads and more reports of irresponsible driving. Unfortunately, most of East Ferris' roads date back to settlement and were not built with the vision of one day being shared by vehicles, pedestrians, and cyclists. Development patterns have supported an automobile-centric road model that has seen limited investment in plans and policies that support the evolution of active transportation.

East Ferris is best described as a rural, residential community with easy access to urban amenities. The municipality has grown steadily and is currently home to almost 5,000 residents. Its population has evolved in tandem with national trends and attracts the millennial generation starting families and retiring baby boomers. In 2021, East Ferris' waterfront properties on Trout Lake and Nosbonsing Lake are in high demand, with many examples of buyers purchasing without viewing properties, as buyers migrating north from southern Ontario seek more space and affordability with the pandemic of COVID. Growth has brought new homeowners from the cities who are accustomed to sidewalks and bike paths. At the same time, growth has led to the division of large properties limiting access to private trails and driveways.

CITIZENS

• The 2020 and 2021 Strategic Plan Report Surveys and 2021 Community Safety and Well-Being Survey

The Municipality has received comments and feedback from citizens calling for focus on AT.

	Table 1: Citizens Input					
Ac	Active Transportation Infrastructure Road Safety Issues Programming					
0	Widen roadside shoulders	0	Enforce speed limits	0	Walking cub	
0	Add off-road trails	0	Reduce speed limits	0	Organized hikes	
0	Add trails between the Villas and village amenities	0	Add traffic calming measures e.g.	0	Dog walking club	
0	Increase trail connections, e.g. Kate Pace Way		Village, Astorville, Big Moose,	0	Nature walks	
0	Expand Wasi's year-round ski trails		MacPherson and Centennial	0	Outdoor fitness	
0	Protect the Stepping Stones					

• Council Delegations and Petitions

The Municipality also receives citizen input through registered service requests and from formal delegations, as follows.

- Astorville Road: lack of paved shoulders, significant increase in vehicle traffic in recent years
- Guillemette Road: lack of shoulders, too much speed, the road has dangerous curbs
- MacPherson Drive: lack of paved shoulders, too much speeding, inappropriate speed limits, road has dangerous curves
- Quae Quae Road: too many trucks, too much speed, road is narrow for safe active transportation activity
- Trout Lake Southshore: potential loss of Stepping Stones as it sits on Crown land and forms part of the area's Algonquin land claim;
- Village Road: lack of paved shoulders, too much speeding, need to upgrade pathway between Edmond and Catherine Drive
- 2019 Survey for the proposed Parks, Recreation & Culture Master Plan

Table 2: Park, Recreation & Culture Survey Results					
0	What sports do you currently participate in? There were 32 sports identified of which 9 related to active transportation.	0	What sports activities would you like to see in East Ferris that are not currently available? The following are the responses related to Active Transportation.		
0	#1 Walking (91 respondents)	0	Safe on road walking		
0	Hiking (53)	0	Safe on road cycling circuit		
0	Snowshoeing (42)	0	Mountain bike trails		
0	Hunting (39)	0	Hiking trails		
0	Cycling (33)	0	A dog park or off-leash area		
0	Cross-country skiing (31)	0	Horseback riding & trails		
0	Jogging / running (19)	0	Running group		
0	Horseback riding (6)	0	More programming at Wasi Ski Trails		
0	Rollerblading (2)	0	Geocaching, nature walks		

STAKEHOLDERS

Table 3: Stakeholder Input						
	Stakeholder	Input				
•	East Ferris Police Services Board (PSB)	Quarterly reports from the Ontario Provincial Police show that incidents and vehicle collisions remain low in East Ferris. At the same time, there are many recorded complaints from East Ferris citizens about speeding on municipal roads. In 2022, the PSB is planning an education campaign in support of the Community Safety and Wellness Plan to target irresponsible driving.				
•	Discovery Routes	The Discovery Routes trail organization has identified Lake Nosbonsing Road as a high-risk section of the Voyageur Bikeway requiring paved shoulders. Lake Nosbonsing Road carries more traffic than nearby provincial highways 94 and 654. In recent years, both provincial highways have been paved and provided with wider shoulders to encourage cycling: o Highway 654 Nipissing/Callander segment: 1,100 AADT o Provincial Road 94 Callander / Corbeil segment: 3,750 AADT o Nosbonsing Lake Municipal Road / 654 extension to Astorville: 4,950 AADT Discovery Routes is moving forward with plans to acquire a portion of the abandoned Beachburg rail line to Algonquin Park. It would be nice if the East Ferris system could connect to this future trail system. Discovery Routes has also retained marketing and tourism consultants who, during a tour of East Ferris by bike, highlighted the potential for further development of the Big Moose bike stand. Discovery Routes encourages East Ferris to look at the growing tourism opportunities that come with active transportation, such as eco-tourism.				
•	Knights of Columbus / Discovery Routes	A portion of the Voyer Trail is on East Ferris municipal land, another portion is on Crown land and another section is owned by the Discovery Routes organization. No organization actively maintains the trail, although Discovery Routes does feature it in their marketing materials. The trail does not connect to Pinewood Park Drive and the Birches Road area as was planned. In 1957, ETI Explosives Technologies purchased a large tract of land in the western section of the proposed trail to manufacture, store and distribute explosives. In the late 1990s, ETI gave Discovery Routes permission to construct the Voyer Trail on the condition that the trail maintain an allowable distance around the storage facilities. Circumstances at the time prevented the trail from being built. Since then, the company has changed ownership several times. The current owner, Dyno Nobel, is licensed to manufacture and store commercial explosives. The Explosives Regulatory Division of Natural Resources Canada controls the minimum allowable distances from which a public trail can exist from a site containing explosives. However, explosives are no longer stored on the site. Another major challenge is an active aggregate extraction company at the west end of the road. The owner has granted permission to the Friends of La Vase and the North Bay Snowmobile Club to cross sections of the pit. In discussing this possibility with the pit owner, the idea that access can be obtained using the unopened allocation of Birch's Road influences the location of the trail through the pit. The pit owner is willing to work with Discovery Route, but he recently passed away and it may be appropriate in the near future to revisit the issue with his family.				

		Wasi Ski operates 43 kilometers of cross-country ski trails, 7.5 kilometers of which are wide enough for double track skiing. The club also has 8
		kilometers of snowshoe trails. All trails are protected by a land use permit issued by the Ministry of Northern Development, Mines, Natural
		Resources and Forestry from November 1 to April 15, at which time the land becomes private property accessible only to Club members. An
•	Wasi Ski Trails	additional permit is granted to the Club for the land used for parking, signage and the clubhouse. The Club maintains year-round insurance on
		this portion of the land and allows walkers and bikers to access the trails for off-season use. While the Club is happy to work together to allow
		for more active transportation on the site, it is looking to another entity, such as the Municipality or the North Bay Mountain Bike Association,
		to take over the hiking and mountain biking operations. The club is currently seeking funds to upgrade come its facilities, which would benefit
		year-round use.
•	Algonquin Land Claim	The task force consulted the status of the ALC negotiations to understand the implications for active transportation. A suggestion was made
		to pave the shoulders of MacPherson Drive and develop new trails on municipally owned land near One Mile Road.

MUNICIPAL INFRASTRUCTURE

• Infrastructure – Roads

East Ferris has 130 km of roads, 14% of which have acceptable shoulders for active transportation and 25% of which have minimal traffic that allows for safe walking and biking. These figures do not include private roads and driveways.

Table 4 – East Ferris Road Network								
East Ferris Road Classification	Characteristics	Length (km)	Paved Length (km)	Surface Treated Length (km)	Gravel Length (km)	Length with Shoulder (km & %)	Minimal Shoulder (km & %)	Minimal Shoulder, Pedestrian, Traffic (km & %)
MTO Highways (portions of #11, #17 & #94 in East Ferris)	 Traffic movement is primary Speeds 80 – 100 Subject to property access control 	25	25			10	2.0	13
Major Arterial Roads	 Traffic movement is primary Speeds 60 – 80 Special cycling facilities 	3.94	3.9				3.94	

	preferred							
Minor Arterial Roads	 Traffic movement is primary Speeds 50 – 70 No Stop signs 	52.93	20.54	26.23	6.16	8.30	35.65	8.97
Collector Roads	 Access to properties & traffic movement Low traffic speed 40 – 60 Stop sign at arterial roads 	24.04	.47	8.73	14.43		13.18	10.85
Local Roads	 Provide access to properties Low traffic speed 30 – 50 	24.56	3.77	6.02	14.58			24.56
Total (km) Total (%)		130	53.73	40.99	35.17	18.30 14%	54.77 42%	57.40 44%

Through the use of Strava heat mapping, the roads and trails in East Ferris most used by pedestrians and cyclists were identified. Additional information was gathered through public consultations to understand what motivates East Ferris' active transportation enthusiasts. The roads in East Ferris most used by pedestrians are: Village Road, Southshore Road west, Astorville Road, Big Moose Road, Guillemette Road, Nosbonsing Park Road, Hwy. 94, Taillefer Road, Voyer Road, MacPherson Drive, and streets in the Denise Drive, Hillside (+40 youth), and Treadlightly developments. In general, pedestrians make short trips on foot, ranging from 2 to 6 kilometers. They are looking for the most convenient route from their front door to what will give them an hour or less of exercise and fresh air. Dog walkers are numerous. Pedestrian travel tends to be more geographically confined to roads along the shores of Nosbonsing Lake and Trout Lake, the heart of Astorville and Corbeil, and subdivisions. Pedestrians are more sensitive to the environment in which they walk, as they appreciate aesthetics as well as the opportunity to communicate with others. They are more likely to be disturbed by noise levels or fear for their personal safety. Many pedestrians would rather be seen by other residents than not be seen walking on a bush trail. The most active walking and hiking trails are the NBMCA Trail, Edmond to Catherine Drive Trail and Stepping Stones.

The most used roads by cyclists are Lake Nosbonsing Road, Astorville Road, Corbeil Road, Quae Quae Road, Derland Road, Highway 94 and Centennial Crescent. In general, cyclists in East Ferris are described as "avid cyclists" and are strong and experienced or overall confident in their ability to cycle. Many bike for health and fitness reasons. There are a few reported cases of citizens cycling to work in the North Bay.

The defining characteristic of their routes, for example one from the MacPherson end, the other from Route 94 near Callander, is that they can do it safely, with defined and paved portions of the road, or via the Kate Pace Way. There are the recreational riders and many casual cyclists on a day trip looking to connect to the Voyageur bike route or the Kate Pace Way. Then there are the interested but more concerned cyclists, including elementary school students who bike to school in Astorville and Corbeil in the early fall and late spring. They enjoy biking, but are nervous when there are cars next to them on the road. For example, parents in Hillside Subdivision point out that there are 40 young people, many of whom attend École Saint-Thomas d'Aquin, who want to bike to school.

• Infrastructure - Trails

East Ferris also has over 78 km of trails that are used by walkers, hikers, dog walkers, joggers and mountain bikers. The trails in East Ferris are owned and managed by community organizations, with the exception of a portion of the Voyer Trail which is on municipal land.

Table 5 – East Ferris Trail Network				
East Ferris trail	Trail length (km)	Ownership /Management		
Wasi Ski Trail	51	Wasi Ski Trail, Crown / MNRF		
NBMCA Corbeil Trail	3.4	NBMCA / Crown		
Voyer Trail	6 (est.)	Municipality, Discovery Route, Crown, Private		
Stepping Stones	18 (est.)	Crown		
Total (km)	78.4			

The Voyageur Cycling Route / Véloroute is the backbone of East Ferris' existing active transportation network. The route spans over 645 km and connects 29 rural and northern communities from Ottawa to Sudbury. The Bikeway is part of the core provincial cycling network, with direct connections to the Great Lakes Waterfront Trail, the National Capital Region and La Route Verte du Quebec, while also being aligned with over 200 km of the Grand Trails. Locally, the trail connects Bonfield to East Ferris via Quae Quae Road, south to Corbeil Road, west to Astorville Road, west to Lake Nosbonsing Road and from there either south to Highway 654 or west to Callander and then to Kate Pace Way in North Bay. The Voyageur Bicycle Route identifies alternative routes to East Ferris: Alternative A Corbeil Road north to Highway #94 north to Centennial Crescent and Alternative B Corbeil Road to Highway #94 west to Callander and then to Kate Pace Way.

Figure 1: Voyageur Cycling Route / Véloroute



• Facilities

East Ferris municipal facilities are equipped with benches, garbage and recycling garbage cans, and public washrooms, including MacPherson Park, Vrebosch Park, Big Moose Park and the East Ferris Community Centre. Bicycle racks are located at both elementary schools: École Saint-Thomas d'Aquin and Ferris Glen. There is a trailhead kiosk at Big Moose Park.



Figure 2: Big Moose Road Trailhead Kiosk

MUNICIPAL POLICIES

The policies that have the highest degree of relevance to the ATP are listed in the following table. It is recognized that to be successful, the Active Transportation Plan must be aligned and linked to other plans and policies that guide the growth and development of East Ferris.

	Table 6: Municipal Policies					
Policy Document	Current Policy	Policy Considerations				
Provincial Policies	Ontario has a strong set of policies that support active transportation and accessible and universal design. These policies provide guidance to municipalities that can range from suggested actions to legislative requirements. In general, provincial guidance on active transportation tends to be in the form of suggestions and support rather than legislative requirements for municipalities.	Look to the following: Accessibility for Ontarians with Disabilities Act (2005) Ministry of Transportation Ontario Bikeways Design Manual (2014) Ontario Traffic Manual Book 15: Pedestrian Crossings (2016) Tour By Bike: Ontario's Cycling Tourism Plan (2017) #CycleON Strategy (2013) and Action Plan 2.0 (2018) Minimum Maintenance Standards for Municipal Highways (2018) Provincial Policy Statement (2020) Ontario Traffic Manual Book 18: Cycling Facilities (2021 update)				
The Official Plan (OP)	 4.14 Within a predominantly rural Municipality, it is not deemed necessary to establish by Official Plan policy, the kinds of standards for Parks and Open Space that are deemed desirable for an urban Municipality. The Municipality of East Ferris has a significant amount of Crown land and rural land with many recreational sites and opportunities, including private and public walking trails, cross country ski and snowmobile trails, playgrounds and beaches throughout the Municipality. 8.2.3 Municipal Roads 1. The primary function of Municipal roads will be to provide access to abutting properties primarily for local traffic. 8.2.7 Council recognizes the importance of recreational trails to the economic base of the community as well as to recreation. Council's intent is to maintain the integrity of through trail systems and in particular, work with organizations involved in the development of the TransCanada Trail and other single or multi use trails that serve the 	The Northern Ontario Growth Plan encourages alignment between the OP and other long-term community strategies, such as a new ATP. At a minimum, Section 8.2.3 of the East Ferris OP should be amended to specify "transportation and infrastructure to include active transportation corridors identified in the East Ferris Active Transportation Plan." The municipality may also consider other modifications consistent with other community's OP, such as "a community where residents and visitors can move freely through the community on foot and bicycle, both on streets and trails." It should be noted that East Ferris has a mandatory OP review process scheduled for 2026, during which the ATP recommends that modifications be made in accordance with the above. If necessary, a site-specific amendment is still possible.				

	residents of East Ferris.	
Zoning Bylaw	In 2021, the Municipality is updating its Zoning Bylaw. There currently are no references to active transportation plans in the existing Zoning By-law.	The Zoning Bylaw is still in draft and these requirements should be amended to include bicycle parking specifications in schools and other major community locations. Also consider adding reference to opportunities for active transportation in new residential or commercial developments.
Asset Management Plan	In 2021, the Municipality is updating its Asset Management . There currently are no references to active transportation plans in the existing Asset Management Plan.	Assess road speeds as part of the Plan's update.
Strategic Plan	The Active Transportation Plan aligns with Council's 4 year term and includes the development of an Active Transportation Plan, a Community Safety and Well Being Plan, a Parks and Recreation Plan, an updated Asset Management Plan and an updated Zoning Bylaw.	The 2021 Strategic Plan Report reveals that most of these actions are still in development. The timing is therefore ideal to align municipal planning and policies in support of active transportation.
Economic Development Strategic and Facilities Management Plan	The Plan approved in 2013 includes a section pertaining to recreation. There are no references or plans related to active transportation. As part of its 2019-2021 Strategic Plan, the Municipality has specified the need to update a plan for recreation that includes a focus on recreational amenities and programming and it specified incorporating the Active Transportation Plan into the Recreation Master Plan.	Incorporate the Active Transportation Plan as part of the planned Recreation Master Plan.
Community Improvement Plan (CIP)	Specific wording in the CIP that relates to ATP: Reconstruct/repair components of the Municipal road system; Improve traffic circulation and parking; Add or improve municipal facilities and properties such as parks, libraries and other recreational or cultural amenities; Encourage the expansion of existing and new economic activity in the municipality.	Amend the CIP to include more specific wording in support of active transportation. For example in other community CIPs we find wording such as e.g. "Improve traffic circulation as well as pedestrian and cyclist lanes or pathways."

Community Safety and Well Being Plan (CSWBP)	Approved by the Municipality and Ontario's Solicitor General in 2021, the Plan specifies that East Ferris aims to ensure that all residents can go about their daily activities without risk or fear of harm and that by 2023, the Municipality will see citizens' feeling of personal safety increase from 68% to 75%. It includes the following strategies: In collaboration with the Municipality's Public Works, implement traffic calming measures e.g. speed limits. Implement an education campaign on dangers of speeding. Support the development and implementation of an Active Transportation Plan.	Connect the CSWBP annual survey to the Active Transportation's performance management strategy.
Municipal Insurance Policies	Review the Municipality's insurance policy to see what modifications are required in support of the ATP.	The Municipality needs to ensure that its insurance policies have been assessed from an AT perspective and that they provide sufficient coverage.
Municipal Legal Requirements	Beyond insurance, the Municipality needs to ensure that it is well protected in the event of injury or death on its active transportation facilities.	Have the Municipality's solicitor: review and amend as advised municipal standards, policies, bylaws and record keeping procedures to ensure East Ferris is in conformity with best practices for AT and; once the ATP is approved, have the confirmed priority road and trail facilities reviewed from a legal and risk management perspective.

KEY THEMES

From the input received and collected, the Plan identifies the following top themes to be addressed by the ATP.

Table 7: Key Themes (in order of importance)

- 1. Walking and cycling are easy, healthy and environmentally friendly activities.
- 2. Studies show that communities with high rates of walking and bicycling know that conditions must be safe, pleasant, and convenient.
- 3. The culture of East Ferris prioritizes vehicles as workers and school children seek to get to their destinations quickly.
- 4. Many enthusiastic walkers and cyclists advocate for increased active transportation in East Ferris.
- 5. There is a lack of appropriate shoulders or trails for safe walking, jogging, and biking in East Ferris.
- 6. Active transportation deserves as much municipal attention as residential and commercial development.
- 7. The municipality has begun to engage in traffic calming measures, such as speed camera signs.
- 8. Neighboring communities are receptive to network connections.
- 9. Existing facilities, such as the Voyer Trail and Wasi Ski Club, are available for off-road trail expansion.
- 10. Municipal plans and policies need to be harmonized with AT.

FUTURE CONDITIONS: WHAT WE WANT TO ACCOMPLISH

VISION, GOALS, STRATEGIES, OBJECTIVES

The overarching theme is that active transportation is important to East Ferris and to address this, we need additional walking and biking facilities and we need to ensure conditions that provide a safe, enjoyable and convenient active transportation experience.

Vision Walking and cycling in East Ferris are enjoyable, safe and convenient as fitness and recreational activities							
Goal #1 Establish a convenient and connected pedestrian and bicycle network in East Ferris.	Goal # 2 Ensure a safe AT network for pedestrians and cyclists.	Goal #3 Increase participants who enjoy AT in East Ferris.					
 Strategies Establish a comprehensive AT network through a phased implementation approach with traffic calming measures. Increase the annual AT reserve by \$(tbc). Align municipal policies and plans. Position the AT Advisory Committee as part of Parks, Recreation and Culture. Work with MTO to provide AT infrastructure on roads under their jurisdiction. Work with regional partners to provide 	 Strategies Educate pedestrians, bicyclists and motorists about sharing the road. Identify and implement safety mitigation program to include traffic calming measures. Review AT safety incidents and concerns as reported to the Municipality, PSB and OPP. Improve lighting along the AT network, where appropriate. 	 Strategies Update the Municipality's website and social media to promote the health benefits of AT. Work with partners to provide AT education and training to elementary school students. Develop a strategy and program to recruit and encourage volunteers to support AT-related programs and initiatives. 					

 integrated AT connections. It is anticipated that with time, the network will support travel to work, to school and to social activities and thereby reduce greenhouse gas emissions. Continue to provide more public washrooms near pedestrian and bicycle facilities. 	 Ensure that accessibility best practices are part of all AT investments. 	 Support the development of regional AT tourism initiatives. Review the Northeastern Ontario Tourism Plan to include a strategy to promote East Ferris AT.
Objective #1 By June 2023, the Strategic Plan Report confirms the addition of 5 km to the AT network, 12 km by 2026, 12 km by 2031 and 25 km by 2041.	Objective #2 By June 2023, 75% of residents will report in the CSWB Survey that they feel safe walking or cycling in East Ferris, 80% by 2026, 90% by 2031 and beyond.	Objective #3 By June 2023 and beyond, 85% of residents will report in the CSWB survey to be in very good or excellent health.

NETWORK PLANNING

Guiding Principles

Active transportation networks are based on guiding principles that reflect a vision. They are used to guide the development of ATP network maps and infrastructure investments. For East Ferris, these principles are safety, convenience, affordability and comfort.

• Safety

In the Table that follows, all roads in East Ferris are evaluated from a safety perspective and are colour coded: red for the roads where safety could be improved, to orange or yellow for those with less and at the end the roads in green requiring no safety improvements. Safety evaluation criteria include speed limits, shoulder width, traffic levels, surface treatment, signage and AT activity.

• Convenience

The AT network should be located where East Ferris users choose to be active and incorporate pedestrian and bicycle loops. For pedestrians, this means in the heart of Astorville and Corbeil, on roads along the shores of Lake Nosbonsing and Trout Lake, and in community developments. For cyclists, it means longer road segments along the Voyageur Route. For hikers and mountain bikers, this involves bush trails.

• Affordability

There is a continuum of facilities that can be designed for AT infrastructure and MTO in its 2014 Bikeway Design Manual identifies 17 different design options for on-road and off-road facilities. However constraints such as topography, existing development, lack of right-of-way, environmental issues and municipal budgets can preclude many options. One of the most important considerations is whether the existing roadways that have been identified as part of the cycling network, require roadway lane widening, or if the redistribution of existing space may accommodate a cycling facility.

Where sufficient right-of-way is available, roadway widening provides a significant opportunity to improve provisions for cyclists through increased roadway lane width. It allows for the provision of facilities with a greater separation between motorists and cyclists. Significant budgetary efficiencies may be available when roadway lane widening projects for theimplementation of cycling facilities are completed in conjunction with repaving or reconstruction projects that are also planned along the roadway corridor. This also reduces the potential for uneven joints in the pavement and may reduce overall construction costs.

In many cases, such as East Ferris roadways identified as potential cycling routes may not be candidates for widening and/ or reconstruction due to budgetary constraints. However, redistributing existing roadway space may prove to be an appropriate and affordable solution for the implementation of cycling facilities. In East Ferris, the Task Force is recommending two options that involve retrofitting: one that is on-road and the second that involves part of the road right-of-way but is off-road.

• Signed Bike Route With A Paved Shoulder

This is a road with a rural road cross section that is signed as a cycling route which also includes a paved shoulder. A Paved Shoulder is a portion of a roadway which is contiguous with the travelled way and accommodates stopped and emergency vehicles, pedestrians and cyclists. It also provides lateral support for the pavement structure. A paved shoulder on a designated cycling route may include a buffer zone to provide greater separation between motorists and cyclists.

Figures 4 - 6: Signed Bike Route



• Two-Way In Boulevard Multi-Use Trails

Off-road multi-use trails may operate in the highway right-of-way or within its own independent right-of-way. Cyclists, pedestrians, and other active transportation users may be permitted on multi-use trails depending on the surface type and local municipal bylaws. Recreational motorized vehicles such as snowmobiles and all-terrain vehicles (ATVs) may be permitted on the trail. Suggested when on road improvements are not possible but there is right-of-way options next to the road that are available. Angel dust is often the recommended material for this option as it is low cost and easy to maintain and overall provides a fair experience for both pedestrians and cyclists.

Figures 7-9: Two-Way Boulevard Multi-Use Trails







Comfort

The width of a mixed- use paved shoulder is very dependent on the traffic count. The following figure provides guidance for the selection of paved shoulder widths and buffer zones for rural two lane highways. On roads with low motor vehicle volumes, paved shoulders with a minimum width of 1.2 metres on either side of the road allow all road users to comfortably negotiate the space without the need for a robust separation. On roads with higher vehicle volumes, a width of 1.5 metres is recommended, as well as some form of motor vehicle lane delineation by longitudinal markings on the roadway, such as a painted buffer zone or rumble strips. With the exception of Lake Hwy. 94 / Corbeil Road and Nosbonsing Road / Village Road, roads in East Ferris fall below the 4,000 average annual daily traffic count.



• Figure 10: MTO Paved Shoulder Widths

ALTERNATIVES

Following is an analysis of the existing East Ferris road network to identify opportunities for AT pathways and trails. They are listed alphabetically and colour coded according to the level of safety as evaluated by the Task Force. It is followed by an analysis of the existing trail network to identify opportunities for expansion for increased hiking and mountain biking activities.

Table 8: Road Network Issues & Opportunities

Highways Colour coded by AT safety priority Most Lesser Least None	Curre nt Speed	Length in East Ferris (km)	With Should er (km)			Road Network Issues & Opportunities
#94	80 km	12 km	10	For AT planning, Hwy. 94 is divided into 2 parts: 2 km in the heart of Corbeil village and the remaining 10 km east and west of Corbeil village. There is concern for school children and other pedestrians walking along Hwy. 94 in the village.		
#17	100 km	7 km		Centennial Cres. and Hwy. 17 is a popular route connecting North Bay for East Ferris cyclists. There is a wide shoulder on Hwy. 17 that is perfect for biking, but there is no safe or legal way to enter to North Bay through the interchange.		
#11	100 km	6 km		Nil		
Roads - Listed alphabetically - Colour coded by AT safety priority Most Lesser Least None	Road Class	Current Speed	Road Section Length (Km)	With Should er (Km)	With Min. Shoul- der (Km)	Active Transportation Issues & Opportunities

ASTORVILLE ROAD	Minor Arterial	50	3.4		3.4	A main AT route that is part of the Voyageur Cycling Route, heavily used by cyclists and pedestrians. Safety could be improved due to hills and curves, narrow shoulders and high traffic levels with speeding issues. The presence of many private driveways makes it more difficult to establish a paved mixed-use lane.
CENTENNIAL CRESCENT	Minor Arterial	60	7.2		7.2	A main AT route that is a well used surface treated road with high pedestrian and bicycle traffic. Safety could be improved as speeding is an issue. MTO expected Centennial Crescent to be a bicycle route, which is why the wide paved shoulder begins on Highway 17 at the western junction of Centennial Crescent leading to North Bay. Local residents have consistently called for improved shoulders for AT use.
CORBEIL ROAD	Minor Arterial	70	6.7	6.7		A major AT route that is part of the Voyageur Cycling Route with high usage by cyclists and medium pedestrian traffic. Safety could be improved with the high level of traffic and speeding as issues. The paved shoulders are less than the preferred width for the speed limit. However the road platform itself does not require widening to allow for a wider paved shoulder, thereby being less expensive to remediate.
LAKE NOSBONSING ROAD	Major Arterial	80	3.9		3.9	A main AT route that is part of the Voyageur Cycling Route, heavily used by cyclists and sparsely used by long-distance walkers & joggers. Safety could be improved, as highlighted in an expert study by Discovery Routes. There are many opportunities to increase AT use, given its connection to Wasi Ski centre for off-season trail use and the loop with Groulx, Edmond and Village roads. The municipality recently completed the paving of the road and prepared the shoulders for eventual paving. Funding programs are currently being considered.
MACPHERSON DRIVE	Collect -or	60	5.3		.80	Very busy road with pedestrians, joggers and cyclists. Safety could be improved as speed is an issue and there are some dangerous turns. It connects to Stepping Stone trails, which are used in all seasons, as well as Centennial Cres, where many long-distance walkers go.
VILLAGE ROAD TO CEMETERY	Minor Arterial	50	2.1	1.5		Well-used main AT route with high foot traffic and moderate bike traffic. Heavy vehicle traffic and speeding is a concern as this is a school safety zone. Safety could be improved at the corner with Edmond Road, where westbound traffic crosses over into the paved shoulder used by pedestrians. Important opportunity for AT pedestrians, as Village Road loops with a) Groulx, Edmond and Lake Nosbonsing Roads, b) with Booth Road and c) with Senior Villas' Trail to Catherine Drive. Loop c) is important for pedestrians who cannot handle the hills in the village leading to the Astorville Freshmart. Increased interest from cyclists given recently renovated roads in Chisholm, e.g. Village Rd. south and Alderdale Rd.
BIG MOOSE ROAD	Minor Arterial	50	2.9		2.9	It is heavily used by pedestrians and joggers, but not much used by cyclists. The road is narrow, winding and has many private driveways. In summer, large trucks and boats travel to the Big Moose boat launch, adding to safety issues, as does traffic to tourist camps and seasonal

					properties.
	Collect				High pedestrian use and important role in village loop opportunities. In particular there is an
CATHERINE DRIVE	-or	50 *1	0.58		opportunity to connect Catherine Drive to Edmond Road via the unopened road allowance at the
					end of Catherine Drive.
	Collec-	50 *4			Used by cyclists on the Voyageur Route to connect to Hwy. 94, as well as by pedestrians to cross
CHAMPAGNE ROAD	tor	50 *1	0.20		the village of Corbeil. It is also a popular route when there are events at Memorial Park, and will
					increase when the new municipal office opens on the former St. Theresa School site.
	Minor	60	6.2	6.2	This is a secondary AT road that is also well used by pedestrians and cyclists. The road is narrow
DERLAND ROAD	Arterial	60	6.3	6.3	and winding, but has less traffic. This road has more potential for cycling as it is scenic and loops
					With Corbell Road and roads into Callander and to the Kate Pace way.
					I his is a tertiary At road that connects to Chisholm and Powassan. Speed is a concern as the road
GROULX ROAD	IVIINOr Arterial	60	3.7	1.4	is narrow and winding in places and requires reconstruction. It has untapped recreational
	Arterial				potential as part of a pedestrian loop with Edmond and Lake Nosbonsing Road. It will also be
					Increasingly used by cyclists as Chisholm has just renovated Alderdale. Rd.
					Quae Quae Road is part of the Voyageur Cycle Route that connects Bonfield to East Ferris and it
	Minor Arterial	70/60	7.4	7.4	and truck traffic and parrow and in places winding read. It is believed that Denfield will improve
					and truck traine of a narrow and in places winding road. It is believed that Bonneid will improve
					want to work at improving the read's AT notantial
					The western parties of the South Share Dead is mederately used by pedertrians.
	Minor	50/60			iscue as the read is parrow and winding in places and peeds to be rebuilt. The read has uptapped
SOUTH SHORE ROAD	Artorial	30/00 *2	5.8		respectively and tourism potential as a gravel read, as it is scenic and could be part of a lake
	Artenar	2			Nochansing loop, with the possibility of cost sharing with Ronfield and Chisholm Townshins
	Local				It is a partian of the Astonville Village Lean, which is heavily used by pedestrians but with little
	LUCAI				vehicular traffic. It is included in the vellow priority given the pedestrian traffic of the elderly and
BOOTH ROAD		50 *1	1.3		ventual tranc. It is included in the yellow phoney given the pedestrian tranc of the edeny and
					the municipality has attempted to make the road one-way, but citizens have objected
	Collect				It forms part of the Astonville Village Loop, which is moderately used by pedestrians and vehicles
	-or				This is a vellow priority due to nedestrian traffic from seniors and youth, and speeding is a
EDMOND ROAD	-01	50 *1	1.8		nrohlem
					Potential to expand the village loop with Grouly, Lake Nosbonsing and Village roads.
EGLINGTON ROAD	Local				
SOUTH		50	0.59		Only the short section connecting to Derland Road should be considered.
GUILLEMETTE ROAD	Collect	50	2.6	2.6	There is average pedestrian traffic with increased residential development. It is a dead-end road
			 A second se	a second s	

	-or				limited seasonal traffic.
LAVIGNE ROAD - CORBEIL TO OUELLETTE	Minor Arterial	60	2.0		There is average pedestrian and bicycle traffic as it serves as an alternate route to the Voyageur bike path. Speeding and large trucks are sometimes a problem.
NOSBONSING PARK ROAD	Collect -or	60	0.16	0.16	There is medium pedestrian use, however increased residential development. It is a dead end road with some limited seasonal traffic.
OUELLETTE ROAD – BIG MOOSE TO LAVIGNE ROAD	Minor Arterial	60	2.0		Medium pedestrian & cycling traffic as it serves as an alternate route to the Voyageur Cycle Route. Speeding and large trucks are at times a problem.
TAILLEFER ROAD	Collect -or	50	2.0		Average pedestrian traffic of Corbeil residents. Although it is a dead-end road, it is rated yellow due to elderly pedestrians and the presence of businesses and trucks. In addition, it has the potential for increased pedestrian activity in the future as it loops with Meadow Drive and Corbeil Road.
VILLAGE ROAD – CEMETERY TO BOUNDARY	Minor Arterial	60	1.2	1.2	Currently, there is little pedestrian and bicycle traffic, but there are many vehicles and speeding is a problem. In the longer term, bicycle traffic is expected to increase as Chisholm has renovated Village Road to the south and promotes bicycling.
VOYER ROAD	Collec- tor	50	2.1		Average pedestrian use by Corbeil residents. Yellow due to pedestrian traffic from Ferris Glen students. Paved only to school. Dead end road that connects to Voyer Trail. If the problems with the Voyer Trail can be resolved, signage should be installed on Voyer Road to alert cyclists to this alternate off-road route to North Bay.
Many of the following i	oads expe	rience hig	h pedestria	n use but are main	tained in the green category as they are either dead end roads or have limited vehicle traffic.
For the most part they	have not	been assig	gned a spee	d limit and theref	ore fall in the 50 km category. Many however are better suited to a lower speed that would be in
support of the AT Plan	e.g. Blanc	he Road, F	Perron Cres	cent are better sui	ted to 40 km. ASTOR STREET, BAYVIEW ROAD, BELECQUE ROAD, BERTHA ROAD, BLANCHE ROAD,
CARRIÈRE ROAD, CEDA	R BAY RO	AD, DÉGA	GNÉ ROAD,	DUBÉ ROAD, DUG	AS ROAD, DURRELL ROAD, DYMENT ROAD, EDMOND ROAD WEST, EGLINTON ROAD NORTH, FAY
ROAD, HILLCREST ROA	D, HILLSID	E ROAD,	HURTUBIS	E ROAD, JOHNSON	I ROAD, KNUTSON COURT, LAUNDON LANE, LEROUX ROAD, MARINA ROAD, MOUNTAIN ROAD,
MEADOW DRIVE, MIRI	MISHI RO	AD, PARG		, PARK ROAD, PHI	LIPS DRIVE, PERRON CRESCENT, RIDGEMOUNT DRIVE, ROGER ROAD, SCOTTSFIELD ROAD, SOUTH
BAY LANE, STEPPING ST	ONE LANE	:, TRAPPEI	RS COURT, 1	READLIGHTLY RO	AD, WAUKEEGAN ROAD.

Trail Name	Trails Length (KM)	Trail Network Issues & Opportunities
WASI SKI TRAIL	51	The Wasi Ski Club has a lease with the Crown that runs from October to April for its winter activities. They have a full year lease for the use of the parking lot and the chalet. The Club indicated that the property is available for another organization to use during the summer, for example for hiking trails or mountain biking. There would be minimal costs involved as the Wasi Ski Club volunteers do an outstanding job of maintaining the trails.
NBMCA CORBEIL TRAILS	3.4	The trails are owned and managed by the Conservation Authority. East Ferris recently received funding to improve the recreation complex behind the Corbeil municipal office, where the entrance to the trail is located.
VOYER TRAILS	6 (est.)	The trails are owned in part by the municipality, Discovery Routes, Crown land and private property. Discovery Routes has been the lead organization, although it has withdrawn from further development until the complex private property issues near Pinewood Park Drive and Birches Road are resolved. Nevertheless, there are untapped hiking and mountain biking opportunities, whether the trail is open to Birch's Road.
STEPPING STONES	18 (est.)	This trail system is located primarily on Crown land and has several loops connecting Long Lake and Pan Lake between MacPherson Drive, Johnson Road and Highway 17.
NEW TRAIL ASTORVILLE SENIORS VILLA	.5	This is an unopened road allowance that has been used for many years as an unofficial trail to connect Catherine Drive to Edmond Road. It is used by students walking to school, residents of Senior Villas who live at the residence at the end of Catherine Drive, as well as those who live in the villas on Edmond Road.
NEW TRAIL CORBEIL SENIORS VILLA	1	Seniors Villas' residents in Corbeil seek a trail systems that would allow them to connect to Bill Vrebosch Park, the Seniors Active Living Centre at Corbeil Park Hall and the NBMCA Corbeil Trail. This trail would also serve the residents of the village and would be the beginning of a pedestrian loop that would connect Voyer Road, Champagne Road, Memorial Park and Taillefer Road.
NEW TRAIL ONE MILE ROAD	2	The municipality owns land at the end of One Mile Road. As part of a residential development project on One Mile Road, there is an opportunity to use the land that has been dedicated to the municipality as "parkland" to create a small, organized trail with outdoor fitness equipment to create a circuit.
SNOWMOBILE TRAILS		There is an extensive network of snowmobile trails that run through the municipality, such as Belecque Road. Some of these trails cross public land and could be converted to all-season hiking and mountain biking trails.
ASTORVILLE OLD SCHOOL SITE		While we have not received a proposal and are not 100% certain of what the site will become, it is possible that with a complete redevelopment of the property, we could build a trail link through the site. This would increase the walkability in the Village of Astorville between places like the arena, the Senior Villas, the Astorville Freshmart, with the goal of increasing the number of people walking to run errands, to the park or to the arena, tennis court, etc.

Table 9: Trail Network Issues & Opportunities

PRIORITIES

Based on the vision and goals of the ATP and taking into account usage information and community input, a set of route selection criteria was developed to evaluate candidate routes based on a consistent set of metrics, thereby prioritizing future active transportation investments. The route selection criteria presented in the table below are intended to serve as a tool to evaluate projects as the ATP moves into the implementation phase - they can be used as a guide when new projects are proposed or when conditions within the municipality change.

	Table 10: Route Selection Criteria
Route Selection Criteria	Criteria Definition
Usage (Low use 3, Medium use 6, High use 9)	On road active transportation facilities are prioritized based on demand or number of users. It is given a higher weight given its importance.
Safety (Most safe 3, Medium safe 6, Least safe 9)	Active transportation routes are prioritized based on their need for improved safety. It is given a higher weight given its importance.
Feasibility (Least feasible 1, Medium feasible 2, Most feasible 3)	Given the constraint of a limited financial budget, projects are prioritized based on affordability, including those that align with other existing capital works projects or can be implemented more quickly or at lowest cost.
Community Connection Opportunity (Least opportunity 1, Medium opportunity 2, Most opportunity 3)	East Ferris is a community of villages and neighborhoods, so the proposed active transportation network should serve to connect citizens and improve community cohesion.
Voyageur Cycling Route Connection Opportunity (Least opportunity 1, Medium opportunity 2, Most opportunity 3)	As a cornerstone of the municipality's existing active transportation network, it is essential that the recommended expansions strive to connect to or extend the existing Voyageur Cycling Route system.
Scenic (Least scenic 1, Medium scenic 2, Most scenic 3)	Active transportation facilities should provide new ways to reach and cross scenic areas. For example, a loop around Lake Nosbonsing to include the south shore.
Funding Potential (Least potential 1, Medium potential 2, Most potential 3)	Projects that have a good chance of being funded or have staff resources to complete the work.

Table 11: Trail Selection Criteria					
Trail Selection Criteria	Criteria Definition				
Usage (Low use 1, Medium use 2, High Use 3)	Trail facilities are prioritized according to demand or number of users.				
Usage Potential (Most safe 3, Medium safe 6, Least safe 9)	To enhance use, trail facilities are prioritized based on their potential for expansion and increased usage.				
Feasibility	Given the constraint of a limited financial budget, projects are prioritized by their cost effectiveness. This				
(Least feasible 1, Medium feasible 2, Most feasible 3)	included those which either align themselves with existing capital works can be implemented more quickly or inexpensively or has good funding potential.				
Scenic	Active transportation facilities should offer new ways to both reach and travel through scenic natural areas.				
(Least scenic 1, Medium scenic 2, Most scenic 3)	Key examples include a loop around Lake Nosbonsing to include the south shore.				

By applying the criteria to the various road and trail connections within the municipality, it becomes clear what roads should be prioritized for implementation to develop a connected network of active transportation infrastructure around East Ferris. The candidate routes serve as a "first draft" of a network - a series of potential routes that need to be refined and confirmed through technical assessments, conversations with municipal staff and community consultation. Attempts are being made to encourage a network of pedestrian and bicycle loops within East Ferris as well as with neighboring communities.

Table 12:Roads Listed by Priority					
Roads Listed by Priority	Main Benefit				
LAKE NOSBONSING ROAD	Voyageur Cycling Route improved safety				
#94- 2 km CORBEIL	Seniors and youth pedestrians improved safety / Village link				
VILLAGE ROAD to CEMETERY	Seniors and youth pedestrians improved safety / Village link				
ASTORVILLE ROAD	Pedestrians and cyclists improved safety / Village link				
CENTENNIAL CRESCENT	Pedestrians and cyclists improved safety / Village link				
CORBEIL ROAD	Voyageur Cycling Route / Villages link				
MACPHERSON DRIVE	Trout Lake pedestrian health and fitness loop				
TAILLEFER - CHAMPAGNE ROADS	Corbeil pedestrian health and fitness loop				
VOYER ROAD	Corbeil pedestrian health and fitness loop				
DENISE DRIVE	Astorville pedestrian health and fitness loop				
EDMOND ROAD	Astorville pedestrian health and fitness loop				
BOOTH ROAD	Astorville pedestrian health and fitness loop				
DERLAND - EGLINTON SOUTH ROADS	Cycling connection to Callander / Voyageur Cycle Route				
GROULX ROAD	Cycling connection to Chisholm / Country Road loop				
VILLAGE ROAD CEMETERY TO BOUNDARY	Cycling connection to Chisholm / Country Road loop				
QUAE QUAE ROAD	Cycling connection to Bonfield / Voyageur Cycling Route				
SOUTH SHORE ROAD	Cycling connection to Bonfield / Lake Nosbonsing loop				
BIG MOOSE ROAD	Lake Nosbonsing pedestrian health and fitness				
NOSBONSING PARK ROAD	Lake Nosbonsing pedestrian health and fitness				
GUILLEMETTE ROAD	Lake Nosbonsing pedestrian health and fitness				
#94 – 10 km	Voyageur Cycling Route connection to Callander				
#17 – PROGRESS COURT	Voyageur Cycling Route connection to North Bay				
LAVIGNE ROAD – TO OUELLETTE	Lake Nosbonsing pedestrian health and fitness				
OUELLETTE	Lake Nosbonsing pedestrian health and fitness				

Table 13: Trails Listed by Priority				
Trails Listed by Priority	Main Benefit			
WASI SKI TRAIL SEASONAL	Capacity for high usage of hikers and mountain bikers			
TRAIL ASTORVILLE SENIORS VILLA	Seniors and youth pedestrians / Village loop			
NEW TRAIL CORBEIL SENIORS VILLA	Seniors and youth pedestrians / Village loop			
NBMCA CORBEIL TRAILS EXPANSION	Capacity for increased usage of hikers			
VOYER TRAILS	Capacity for increased usage of hikers and mountain bikers			
NEW TRAIL ONE MILE ROAD	Trout Lake health and fitness trail to connect to or to alleviate loss of Stepping Stones			

WHEN AND HOW WE WILL ACCOMPLISH OUR VISION

IMPLEMENTATION STRATEGY

The ATP will require significant investment and coordination among municipal departments, other levels of government, external organizations and stakeholders. Two strategic actions are recommended to enable the implementation of the ATP:

traffic calming measures to support the proposed network and ;

a detailed twenty-year schedule.

Traffic Calming

The growth of the Municipality of East Ferris means more vehicles on municipal roads. It also means recognition of the negative effects of motor vehicle use, including speeding. To combat this negative behavior, the municipality has begun to explore the expanded use of traffic calming measures with the use of radar speed signs. These signs have been known to modify driver behaviour and reduce vehicle speeds. Although pedestrians and cyclists are legal road users in the same way as motorists, they are still vulnerable road users because they do not have the same protection in the event of a collision. Pedestrian and bicycle lanes are part of the solution, as is a reduced speed environment to improve safety for all road users.

The Town of East Ferris is currently addressing traffic calming issues on an independent basis: staff undertake a traffic study, develop options to address identified problems and implement them. However, as the number of requests has increased in recent years, it is prudent to establish formal guidelines to ensure consistency in the analysis and implementation of traffic calming measures, and to prioritize requests. The following is a summary of the literature regarding best practices for implementing traffic calming measures.

TAC Canadian Guide to Traffic Calming – Second Edition

The recently updated TransportationAssociation of Canada (TAC)'s Canadian Guide to Traffic Calming (the TAC Guide) provides guidance for the application of traffic calming measures on neighbourhood, local, collectors, and urban and rural arterials. The TAC Guide established model procedures for developing and implementing a traffic calming plan in response to community traffic concerns through a staged process.

Initiation: confirm nature and magnitude of reported traffic issue(s) and decide whether to proceed.

Development: Create traffic calming plan that effectively addresses identified issues and seek approval.

Implementation and Evaluation: Design and build components of approved traffic calming plan and monitor effectiveness, refine installation and remove measures if their intended purpose no longer serves.

FHWA – Speed Management: A Manual for Local Rural Road Owners

Extensive research, completed in 2012 by the U.S. Department of Transportation Federal Highway Administration (FHWA), regarding traffic calming on main roads through rural communities (e.g. villages and hamlets in the context of the Municipality of East Ferris) identified that this type of roads presents both an enforcement challenge forthe community and a perceived safety issue for the general public. Trying to solve an identified speeding problem along this typeof rural corridor through law enforcement alone generally leads to an increase in compliance with the posted speed followed by a quick return to the speeding behaviour after enforcement is terminated. Acknowledging that this type of roadway not only serves local traffic, but also provides connectivity to the rest of the community at a relatively higher speed, the Manual discuss the use of traffic control devices to reduce speed:

- Advisory speed signs including pavement marking and speed activated signs;
- Changes on road design: lane narrowing, road diet;
- Road rehabilitation or reconstruction: horizontal deflections, vertical deflections, gateways;
- Enforcement: traditional and automated enforcement; and
- Education: public information and educational campaigns.

The Manual recommends measures that can be implemented quickly such as colored pavement and/or physical lane narrowing and signing, rather than deflection measures that may require road reconstruction. The Manual states that 'changing the look and feel of the road, the installation of this type of traffic calming measures transmits a message to the drivers that the function of the road is changing and may reinforce the need to reduce speed'.

Jurisdictional Scan

A review of publicly available information regarding traffic calming policies and regulations implemented by several municipalities of the Province of Ontariowas recently completed by the Town of Caledon and is reproduced as follows. The objective was to identify the common elements of their traffic calming process and its implementation and following are the findings.

• Use of specific thresholds as part of a pre-screening process. All municipalities identified a set of values for specific elements of the

roadwaysystem. If characteristics of the location under review do not match those thresholds, the request for traffic calming is refused.

- Use of a Scoring and Ranking System. Most of the municipalities have implemented a system to help them to prioritize sites with higher degrees of concerns as well as to efficiently allocate resources. Elements considered as part of the scoring and ranking process are;
 - School zones, parks, or designated pedestrian crossings;
 - Road classification;
 - Intensity of speeding;
 - Traffic volumes;
 - Number of collisions; and
 - Percentage of cut-through traffic.
- **Public Input**. Involvement of general public as part of the traffic calming processvaries from minimal engagement to extensive participation during the entire evaluation and implementation process.
- Information regarding Traffic Calming Measures. Most of the municipalities provide a table describing the list of possible measures. Additional details for each type of measure varies from a list of measures to a full description of each measure – applicability based on the type or road, and an estimated cost range.
- Use of a standardized Traffic Calming Warrant Process. Most of the municipalities identified a specific approach to determine if a traffic calming request is warranted. Although elements of the warrant vary depending of themunicipality, the following are the most common:
 - Petition of residents or identification of a location based on internal process;
 - Confirm if the location is suitable for traffic calming;
 - Complete a traffic operations review;
 - Ensure that technical and safety warrants are met;
 - Identify the most suitable type of traffic calming measure;
 - Complete ranking process;
 - Approval; and
 - Implementation and evaluation of measure(s).

Traffic Calming Toolkit

• Speed Limits

In Ontario, unless otherwise posted, provincial legislated speeds are 100 km/h on provincial highways, 80 km/h on municipal highways and 50 km/h on highways in urban areas. At a municipal level, speed limits are set by Council as recommended by the Municipal Engineer after consideration of a variety of factors, including legislated speed, collision history and type, the speed at which the majority of drivers are currently using the road, design, classification and function of the road, on-street parking, type of road users, and traffic volumes. A number of East Ferris roads do not have an assigned speed limit and are therefore subject to the directive "50 km / h unless otherwise posted." It is recommended that all roads be assigned a speed to avoid roads being incorrectly posted a 50 km / h speed limit.



• Education - Campaigns

Focus the 2022 Police Services Board Educational Campaign on the "Speeding Costs You" slogan and include in the 2022 budget funds for signage to be installed at every major entry point into East Ferris along major routes (photo below to be adjusted to municipal speeds.)



• Education - Continuous

Install "Share the Road" signage on all network routes. Provide education on sharing the road to include specific information on speed kills.



• School Safety and Community Safety Zones

Adjust the speed in front of schools in keeping with the School Zone Designation and give priority to working with the Police Services Board and Ontario's Ministry of Transportation to obtain the Designation Community Safety Zone for Corbeil. Consider pavement markings "school / école", "slow / lent" and education.



• Rumble Strips

Rumble strips are simply cuts in the pavement where the edge line is placed. After the rumble strips are ground in, the white line is marked right over the rumble strips, making it more visible in the rain and the rumble strip provides warning to a motorist who strays from the driving lane.



• Additional Options – Signage and Surface Treatment



Additional Options – Enforcement and Education



• Additional Options – Roadway Narrowing



Additional Options – Horizontal and Vertical Deflections



Horizontal

Deflection

CHICANE.

TWO-LANE



High

Chicanes are curb extensions that alternate from one side of the road to the other. In general, a series of three or more curb extensions are used to force vehicles to slow down and travel in an S-shaped path through the chicane. Two-lane chicanes allow vehicles to remain in their travel lane. They are not as effective at reducing vehicle speeds as one-lane chicanes and may not reduce vehicle volumes. The safety benefits of reduced vehicle speeds may be offset by an increased potential for conflict as motorists have been found to cross the road centerline to maintain a straight trajectory.

Potential Benef	its	Potential Disbenefi	ts
Speed Reduction	83	Local Access	E
Volume Reduction		Emergency Response	E
Conflict Reduction	22	Active Transportation	C
Environment	22	Enforcement	E
🗱 Substantial (Discilleneitis		Parking	
Mour (Do.Benatits D. h	o (Distibuletity	Maintenance	2



· Only 2 lane roadway (one each direction)

- · Min. roadway width of 12 m
 - Location: Midblock Speed Limit: ≤ 50 km/h
 - ADT: Min. 750 vpd or 100 vph during peak hour For roads with bike routes:

Environment: Urban

Road Class: Local (one-way,

two-way), Collector (two-way)

< 1000 vpd Block Length: ≥ 110 m Grade: 5 8%

SPEED ertica Deflection CUSHION Potential Benefits Speed Reduction Volume Reduction Conflict Reduction Environment Substantial (Distributed its 22 Marco (Deciberation) To (Decibe **City of Ottawa** Applicability Roadway Cross-Section: + 2 lanes (one each direction) NACTO (2013) Cost Moderate SPEED HUMP Speed Reduction Volume Reduction Conflict Reduction Environment Submits (Dubirets Applicability NACTO (2013) Roadway Cross-Section: · 2 lanes (one each direction)

NACTO (2013)

Cost Moderate Speed cushions are a narrower version of a speed hump and are installed in the middle of each travel lane. They are generally six feet wide and designed to slow passenger vehicles while allowing vehicles with larger wheel bases (emergency vehicles and buses) to pass unimpeded. Speed cushions should be considered rather than speed humps on emergency response and transit routes. Speed cushions are preferable on collector roads.

	Potential Disblene®	Th
	Local Access	. []
23	Emergency Response	123
	Active Transportation	23
22	Enforcement	
	Parking	23
DepBenefits	Maintenance	127
n:	Environment, Urban an	d Rural



roadway (excluding gutters) designed to slow vehicle speeds. Motorist discomfort is related to the size of the speed hump and the speed they are travelling. Speed humps are typically installed in series.

Potential Behefits Polential Disbenefits Local Access Emergency Response . 顓 Active Transportation 23 Enforcement Parking 2 10 Unideratia In Unideratia Maintenance 1 Environment: Urban and Rural

> Road Class: Local Location Mid-blocks Speed Limit: <50km/h ADT: between 1000 to 4000 Block Length: > 110 m

Grade: < 8%

TIMEFRAME

AT network segments are identified by priority. As noted earlier, the priority level may change over time based on other factors.

	Table 14: AT Network of Roads & Trails			
Network - Roads	2023	2031	2041	
LAKE NOSBONSING ROAD	×			
#94- 2 km CORBEIL	✓			
VILLAGE TO CEMETERY		\checkmark		
ASTORVILLE ROAD		\checkmark		
CENTENNIAL CRESCENT		\checkmark		
CORBEIL ROAD		\checkmark		
MACPHERSON DRIVE			\checkmark	
TAILLEFER - CHAMPAGNE ROADS			\checkmark	
VOYER ROAD			\checkmark	
DENISE DRIVE			✓	
EDMOND ROAD			\checkmark	
BOOTH ROAD			\checkmark	
DERLAND - EGLINTON SOUTH ROADS				\checkmark
GROULX ROAD				\checkmark
VILLAGE CEMETERY TO BOUNDARY				\checkmark
QUAE QUAE ROAD				\checkmark
SOUTH SHORE ROAD				\checkmark
BIG MOOSE ROAD				\checkmark
NOSBONSING PARK ROAD				\checkmark
GUILLEMETTE ROAD				\checkmark
#94 – 10 km				\checkmark
#17 – PROGRESS COURT				\checkmark
LAVIGNE ROAD - TO OUELLETTE				✓
OUELLETTE				✓
NETWORK - Trails	2023	2026	2031	2041
WASI SKI TRAIL SEASONAL	\checkmark			
TRAIL ASTORVILLE SENIORS VILLA	$\overline{\checkmark}$			
NEW CORBEIL SENIORS VILLA	✓			
NBMCA CORBEIL EXPANSION		\checkmark		
VOYER TRAILS			✓	
NEW TRAIL ONE MILE ROAD			✓	

IMPLEMENTATION PLAN

NETWORK (NOTE: Professionally designed maps will be available at the November 2nd public consultation)



East Ferris 2023 Active Transportation Network Map

Primary Cycling & Long Distance Walking On-Road Trail : Lake Nosbonsing Rd., Hwy. # 94 Corbeil

Primary Walking & Jogging On-Road Trail: Village Road, Hwy 94 Corbeil

Primary Hiking & Mountain Biking Off-Road Trail: Wasi Ski, Astorville Seniors Villas, Corbeil Seniors Villas



East Ferris 2026 Active Transportation Network Map

Primary Cycling & Long Distance Walking On-Road Trail: Lake Nosbonsing Rd., Astorville Rd., Corbeil Rd., Centennial Crescent

Primary Walking & Jogging On-Road Trail: Village Road, Astorville Rd., Hwy # 94 Corbeil, Centennial Cres.

Primary Hiking & Mountain Biking Off-Road Trail: Wasi Ski, Seniors Villas Astorville, Seniors Villas Corbeil, NBMCA



East Ferris 2031

Active Transportation Network Map

Primary Cycling & Long Distance Walking On-Road Trail: Lake Nosbonsing Rd., Astorville Rd., Corbeil Rd., Hwy. # 94, Centennial Crescent

Primary Walking & Jogging On-Road Trail: Edmond Rd., Village Rd., Denise Drive, Booth Rd., Astorville Rd., Taillefer Rd., Champagne Rd., Hwy # 94, Voyer Rd., MacPherson Dr., Centennial Crescent

Primary Hiking & Mountain Biking Off-Road Trail: Wasi Ski, Seniors Villas Astorville, Seniors Villas Corbeil, NBMCA, Voyer



East Ferris 2041 Active Transportation Network Map

Primary Cycling On-Road Trail: Lake Nosbonsing Rd., Groulx Rd., Village Rd. Hillcrest, Southshore Rd., Astorville Rd., Corbeil Rd. Quae Quae Rd. Ouellette Rd. Lavigne Rd. Derland Rd., Hwy. 94, Centennial Crescent

Primary Pedestrian On-Road Trail: Edmond Rd., Village Rd., Denise Dr. Booth Rd., Astorville Rd., Big Moose Rd., Guillemette Rd., Nosbonsing Park Rd., Taillefer Rd. Champagne Rd., Hwy 94 Corbeil, Voyer Rd., MacPherson Dr., Centennial Crescent

Primary Hiking & Mountain Biking Off-Road Trail: Wasi Ski, Seniors Villas Astorville, Seniors Villas Corbeil, NBMCA, Voyer, One Mile Rd.

Costing

To prepare an Implementation Plan, the following table was prepared to provide an overview of the estimated unit costs for active transportation facilities, road calming measures to include signage to implement the AT network.

		Table 15: AT N	Network Estimated Unit Costs
DESCRIPTION	UNIT	VALUE	COMMENTS/ ASSUMPTIONS
Addition of a 1.5 m paved shoulder in conjunction with a road widening project	linear km		Price for both sides of the road, assumes 1.5m AT lanes on both sides of the roadway (1.5m x 2 sides = 3.0m). Includes adjustments to culverts, catch basins driveway entrances, asphalt and sub-base, signs & pavement markings. Road projectfunds all other improvement.
Addition of a 1.5 m paved shoulder in conjunction with existing road reconstruction /resurfacing	linear km		Price for both sides of the road, 1.5m paved shoulder. Assumes AT project pays for additional granular base, asphalt and edge line.
Widening of paved shoulders on existing roadway to 1.5 m for AT lanes	linear km		Price for both sides. Includes grinding of existing pavement, markings, signs and line painting.
New granular surfaced off-road multi- use trail within road right-of-way (or encroaching on Crown land or other publicly available land)	linear km		Price for 3m wide, compacted stone dust surface in complex site conditions (includes cost of clearing). Price depends of scale / complexity of project.
Addition of rumble strip to paved shoulder	linear km		Price for both sides.
Granular shoulder sealing	linear km		Both sides spray emulsion applied to harden the granular shoulder. This will reduce gravel on the paved portion of the shoulder and significantly reduce shoulder

		maintenance.
Removable bollard	each	Basic style (e.g. 75mm diameter galvanized), with footing.
Flexible bollards	each	Should be placed at 10m intervals where required. Cost depends on product type used.
Planters for chicanes	each	
Temporary speed bumps	set of 2	
Large sign for "speed fines & demerit points"	each	
Signs	each	Price for one side of road.
Bike / Pedestrian road marking	each	

Notes:

Unit Prices are for functional design purposes only, include installation but exclude contingency, design and approvals costs (unless noted) and reflect 2021 dollars, based on recent municipal and Discovery Routes projects.

2. Estimates do not include the cost of property acquisitions, signal modifications, utility relocations, major roadside drainage works or costs associated with

site-specific projects such as bridges, railway crossings, retaining walls, and stairways, unless otherwise noted.

Assumes typical environmental conditions and topography.

Applicable taxes and permit fees are additional.

Table 16: Implementation Plan Budget

Road & Trail Network	Active Transportation Solutions and Actions	By 2023	By 2026	By 2031	By 2041	
LAKE NOSBONSING ROAD	 Price for 3.9 km of paved shoulders on both sides of the road to 1.5m to potentially include .3 km for rumble strip. PLarge sign "speed fines / demerit points" at boundary. Price for 4 "share the road" and "speed limit" signage. 					
#94 - Corbeil	Cost to be assumed by MTO for confirmation and signage for Community Safety Zone designation and for widening 2 km of paved shoulders through the village of Corbeil .					
VILLAGE ROAD	 Price for 2.1 km of 1.5 m paved shoulders on both sides of the road. To examine.4 km of rumble strip and if applicable to price for installation between vehicular lanes and paved shoulder on curb at Edmond Road curb. To examine removable bollards and if applicable to price for installation from top of hill at Booth Road to Edmond Road corner Price for 4 "share the road" and "speed limit" signage and 2 "School Zone" and 2 pavement markings 					
ASTORVILLE ROAD	Price for 3.38 km of 1.5 m paved shoulders on both sides of the road to be resurfaced. To examine removable bollards or speed cushion and if applicable to price for installation near Blanche Road to corner with Corbeil and Big Moose Roads. Price for 4 "share the road" and "speed limit" signs.					
CENTENNIAL CRESCENT	Price for 7.2 km of 1.5 m paved shoulders on both sides of the road. Examine how to add shoulders on treated road to provide a harder packed treatment. Large sign "speed fines / demerit points" at boundary. Price for 8 "share the road" and "speed limit" signs.					
CORBEIL ROAD	Price for 6.7 km of 1.5 m paved shoulders on both sides of the road. Examine how to limit to widening the road shoulders and not having to resurface the whole road. Consider rumble strips between the vehicular lanes and the paved shoulders, especially on corners once lanes widened. Price for 8 "share the road" and "speed limit" signs.					
MACPHERSON DRIVE	Price for 5.3 km of 1.5 m paved shoulders on both sides of the road in conjunction with some road widening near bridges and corners. Price for 8 "share the road" and "speed limit" signs. Awaiting road redevelopment, consider traffic calming measures e.g. speed adjustments on segment, speed cushion.					

TAILLEFER &	Price for 2.2 km of 1.5 m wide compacted stone dust surface on one side.		Γ
CHAMPAGNE	Price for 4 "share the road" and "speed limit" signs.		
ROADS			
	Price for 2.7 km of 1.5 m wide compacted stone dust surface on one side.		Γ
VOTER ROAD	Price for 4 "share the road" and "speed limit" signs.		
CATHERINE	Price for 0.58 km of 1.5 paved shoulders on both sides of the road to be resurfaced.		
DRIVE	Assign a speed limit.		
DRIVE	Price for 4 "share the road" and "speed limit" signs.		
FDMOND	Price for 1.9 km of 1.5 m wide compacted stone dust surface on one side.		
ROAD	Assign a speed limit.		
None	Price for 4 "share the road" and "speed limit" signs.		
BOOTH ROAD	Widen blind entrance at top of "côte croche" for pedestrian traffic		
	Price for 6.3 km of paved 1.5 m wide added to both sides.		Γ
DERLAND	Price for 6 "share the road" and "speed limit" signs.		
ROAD	Awaiting road redevelopment, consider traffic calming measures e.g. speed adjustments near curves		
	and hills.		
EGLINGTON	Price for .59 km of paved 1.5 m wide added to both sides.		
ROAD SOUTH	Price for one "speed fines and demerit points " sign at boundary.		
GROUILX	Price for 3.7 km of 1.5 m compacted stone dust surface on both sides of the road.		
ROAD	Price for one "speed fines and demerit points " sign at boundary.		
	Price for 6 "share the road" and "speed limit" signs.		
VILLAGE	Price for 1.2 km of 1.5 m compacted stone dust surface on both sides of the road.		
ROAD	Price for one "speed fines and demerit points " sign at boundary.		
South TO	Price for 2 "share the road" and "speed limit" signs.		
BOUNDARY			
	Price for 7.4 km of 1.5 m compacted stone dust surface on both sides of the road.		
QUAE QUAE	Price for one "speed fines and demerit points " sign at boundary.		
ROAD	Price for 6 "share the road" and "speed limit" signs.		
	Awaiting road redevelopment, consider traffic calming measures.		
	Price for 5.8 km of 1.5 m compacted stone dust surface on both sides of the road.		
SOUTH SHORE	Price for one "speed fines and demerit points " sign at boundary.		
ROAD	Price for 4 "share the road" and "speed limit" signs.		
	Awaiting road redevelopment, consider traffic calming measures.		

	Price for 2.9 km of paved 1.5 m wide paved shoulders on both sides of the road.				
BIG MOOSE	Price for 2 "share the road" and "speed limit" signs.				
ROAD	Awaiting road development explore use of flexible bollards, temporary chicanes or temporary speed				
	bumps from corner with Astorville and Corbeil Roads to Big Moose Boat launch.				
NOSBONSING	Price for 2 "share the road" and "speed limit" signs.				
PARK ROAD	Awaiting road redevelopment, consider traffic calming measures.				
GUILLEMETTE	Price for 2 "share the road" and "speed limit" signs.				
ROAD	Awaiting road redevelopment, consider traffic calming measures.				
	Cost to be assumed by MTO. Seek wider buffered shoulders with rumble strips on both sides of the				
#94 – 10 KM	road. Seek addition of more "share the road" signage as well as "speed fines and demerit point" sign at				
	boundary.				
#17	Cost estimated at \$160,000 to be assumed by MTO and City of North Bay. Advocate in support this link				
PROGRESS	using the 150 m road allowance between Progress Court and Twin Lakes Road to create a bike route.				
COURT					
LAVIGNE	Price for 2.2 km of 1.5 m compacted stone dust surface on both sides of the road.				
ROAD -	Price for 2 "share the road" and "speed limit" signs.				
CORBEIL TO					
OUELLETTE					
OUELLETTE	Price for 4 "share the road" and "speed limit" signs.				
ROAD –					
	SUB – TOTAL ROAD NETWORK				
Trail	Active Transportation	By 2023	By 2026	By 2031	By 2041
Network	Solutions and Actions	Dy 2023	Dy 2020	By 2031	Dy 2041
WASI SKI TRAIL	Collaborate with Wasi Ski Club to expand the 51 km use of the trails from May to October that				
	includes resolving matters of risk management for the use of the parking lot, naming the non-winter				
	activity under a name different then Wasi Ski and add appropriate signage that clarifies the different				
	leadership.				
	Price includes insurance, signage and promotion.				
ASTORVILLE	Price includes funds to convert the .5 km road allowance to a 3m wide chip covered pedestrian				
SENIORS VILLA	pathway.				
		-			

CORBEIL	Collaborate with Seniors Villa to add 1 km of trails to Villa property in the heart of Corbeil.				
SENIORS VILLA	East Ferris to connect municipal properties in the heart of Corbeil e.g. existing and future sites of the				
	Municipal Office and Memorial Park to the Seniors Villa trail.				
NBMCA CORBEIL	Collaborate with NBMCA to expand the trails in Corbeil.				
VOYER TRAILS	Collaborate with Discovery Route to complete the Voyer Trails.				
	East Ferris to place a barrier at the Voyer Road trail entrance to prevent vehicle traffic.				
	East Ferris to examine with FedNor reinstating the trail sign that was damaged by vandalism.				
	Collaborate with the Voyer family to develop the AT facility e.g. Voyer Foundation and related				
	program(s). Engage citizens residing along Voyer Road who share in the trail vision that was put				
	forward by founder Michel Voyer.				
ONE MILE ROAD	Build a 2km fitness trail on land that was dedicated as parkland.				
SNOW MOBILE	Examine logistics and the opportunity (Belecque Road, Village Road to Chisholm)				
TRAILS					
OLD ASTORVILLE	Keep top of mind when meeting with the existing or future property owner to encompass as part of				
SHCOOL	discussions and imposed conditions.				
PROPERTY					
	SUB- TOTAL TRAIL NETORK				
EDUCATION &	Active Transportation	By 2023	By 2026	By 2031	By 2041
PROMOTION	Solutions and Action	-,	-,	-,	-,
SIGNAGE -					
LAWNS					
NOTE:					
To be					
completed					
after nublic					
consultation					

Funding

The total estimated cost to implement all recommended AT facilities as identified in Tables ____ and ____ is \$______.

It is expected that some of the capital costs related to the construction network facilities will be included within planned annual local roadway construction or resurfacing projects, or other municipal projects.

Wherever possible, the Municipality will work with other agencies and levels of government to establish cost sharing agreements or seek grant opportunities to off-set the total project costs. Potential organizations and agencies include FCM's Green Municipal Fund, Infrastructure Canada's National Cycling Strategy, FedNor, NOHFC, Trillium Ontario, Corporate Funds e.g. MEC, private investors, business community etc... Following are the projects for which it is the pursuit of grant funding is anticipated.

Table 17: AT Network Funding						
Lake Nosbonsing Road and a portion of Village Road	\$450,000	FedNor				
MacPherson Drive	\$1,600,000	National Cycling Strategy				
Groulx Road & Village to Boundary / The Country Loop	\$185,000	With Chisholm & grant funding				
Quae Quae Road & South Shore Road / The Lake Nosbonsing Loop	\$300,000	With Bonfield & Chisholm & grant funding				
Wasi Ski Trail	\$25,000	Tourism				
Voyer Trail	\$50,000	FedNor & Tourism				
Signage, One Mile Road etc	\$250,000	Parkland Dedication				
Other (other funding opportunities are anticipated over 20 years)	\$2,000,000	Roadwork e.g. Astorville, Centennial, Corbeil				
Total	\$4,860,000					
Total estimated network development cost $\$ less potential for funding of \$4,860,000 leaves an estimated $\$ to be funded by the Municipality over 20 years. This amount = \$ per annum for the development of a safe and convenient AT network. As the estimated funding excludes opportunities for the annual roadwork program to impact the development of these facilities, or furthermore for some of the roadwork to be completed directly by the staff of the Municipality's Public Works Department, an annual AT Reserve contribution of \$ is deemed appropriate. The Municipality has already established a Reserve and an annual contribution of \$25,000. It is recommended to increase this amount by \$ starting 2023.						

CONCLUSIONS & NEXT STEPS

The ATP provides a comprehensive approach to guide East Ferris' progress and investments in walking and cycling over the next 20 years. It provides a course of action that reflects the community's priorities and available resources. It has been developed based on expertise and engagement with the East Ferris community over a 10-month period. Through this public engagement process, many community members provided input into the development plan at various phases. The task force would like to thank all of those who were involved in the development of the ATP which will lay the groundwork for future collaboration, coordination and communication related to the planning, design and implementation of AT initiatives within the Municipality.

On December 14th the ATP will be presented to the Council of the Municipality of East Ferris for approval. Once approved, the Active Transportation Advisory Committee will be established as a sub-Committee of the Parks, Recreation and Culture Committee. As part of its opening business it will formalize how to move forward in order to deliver on the following 3 ATP objectives:

Objective #1	Objective #2	Objective #3			
By June 2023, the Strategic Plan Report confirms the	By June 2023, 75% of residents will report in	By June 2023 and beyond, 85% of			
addition of 5 km to the AT network, 12 km by 2026,	the CSWB Survey that they feel safe walking	residents will report in the CSWB survey			
12 km by 2031 and 25 km by 2041.	or cycling in East Ferris, 80% by 2026, 90% by	to be in very good or excellent health.			
	2031 and beyond.				

REFERENCES

- Ontario Traffic Manual Book 15: Pedestrian Crossings (2016)
- Ontario Traffic Manual Book 18: Cycling Facilities (2021 update)
- MTO's Complete Street Planning Tour By Bike: Ontario's Cycling Tourism Plan (2017)
- Minimum Maintenance Standards for Municipal Highways (2018)
- Provincial Policy Statement (2020)
- #CycleON Strategy (2013) and Action Plan 2.0 (2018)
- National Active Transportation Policy: Canada's First Strategy to Promote the Construction and Use of Trails, Pathways and Bikeways (2021)
- TransportationAssociation of Canada (TAC)'s Canadian Guide to Traffic Calming (the TAC Guide)
- British Columbia Active Transportation Guide
- Alberta Active Transportation
- U.S. Department of Transportation Federal Highway Administration (FHWA) Speed Management: A Manual for Local Rural Road Owners (2012)
- Multiple Active Transportation Plans: North Bay, Temiskaming Shores, Sudbury, Barrie, Smiths Falls, Ottawa, Toronto, London, Kingston, Merritt, Pelham, Minto, Leamington, King
- Multiple Traffic Studies and Plans: Caledon, Ottawa, Toronto
- Share the Road Program
- Canada Walks: Showcase of Walk Friendly Communities
- Walk Friendly Communities USA