



Notification Letter

Date: February 3, 2021

Site: Cedar Croft, Municipality of Magnetawan

Subject: New 184-Foot Tower Installation for Fixed Wireless Internet Service

As part of a project initiative by CENGN's Northern Ontario Residential Broadband program which is funded in part by the federal and provincial governments, Spectrum Telecom Group proposes to construct a 56.1 meter (184-foot) high, self-support tower site on municipal land in the Cedar Croft area near Cedar Croft Road. The proposed wireless site will be a key component in a network designed to extend high-speed Internet and other related services to the public and business users in the area. You are receiving this notification because you own property within the specified notification area of the proposed site.

The Municipality of Magnetawan requires that the following information be sent out to residents in the area as part of its notification process. This process also allows residents an opportunity to provide feedback so the Municipality can properly assess impact and determine whether the project is in the best interests of the community as a whole.

1. **Purpose of the Structure:** The proposed tower mast will support antennas and wireless equipment designed to provide fixed high-speed Internet access and related services to residents and business users located in the Cedar Croft and Ahmic Lake areas.

No suitable structures are available in the area to support this equipment. Consequently, Spectrum Telecom Group is proposing to construct a new 56.1 meter (184-foot), self-support tower at the location described below.

2. **Location:** The proposed mast will be constructed in a wooded area on municipal land located near the end of Cedar Croft Road. The location is shown on Attachment 1. The approximate geographical coordinates of the site are: *Latitude 46.6358 degrees; Longitude -79.7091 degrees*. The site is situated on an unopened road allowance located between Lot 14 Con. 4 and Lot 14 Con. 5, (PIN 52084-0341).
3. **RF Exposure Levels:** RF output power of the networking and backhaul radio equipment proposed is relatively low. Consequently, the tower and its antennas will not expose the public to any harmful levels of radio frequency (RF) exposure whatsoever and will be installed and operated on an ongoing basis so as to comply with Health Canada's Safety Code 6, including combined effects of the local spectrum environment. This code establishes safety guidelines for protection of the public against the effects of radio frequency fields.

The level of RF exposure experienced by an individual standing on the ground near the base of the tower is calculated to be less than one percent of the maximum limit as specified in Safety Code 6.

4. **Public Access Control:** Electronic equipment will be mounted at an elevated level on the antenna mast as well as inside a secured shelter which is not accessible to the general public. The site compound will be enclosed within a locked seven-foot-high chain link fence to help prevent unauthorized climbing of the structure.

5. **Site Environmental Status:** The proposed antenna mast and equipment shelter installation, having minimal environmental impact, does not require an environmental assessment as the facility meets the exclusion criteria as specified in the Canadian Environmental Assessment Act.
6. **Support Mast and Antenna System:** A profile of the tower is included as Attachment 2. Internet services will be extended to customer locations over specialized distribution antennas. A picture of a typical distribution antenna (which would be attached near the top of the mast) is shown on Attachment 3, figure 1.

The tower will also support two 1.2-meter (48") maximum diameter dish-type antennas (similar to that shown on Attachment 3, figure 2). This antenna will provide backhaul connectivity to the Internet and Spectrum Telecom Group's wide-area telecommunications network

The antenna mast proposed is a self-support (no guy wires), lattice type structure that would be installed in a wooded area. Clearing of trees and vegetation will be kept to a minimum so that the structure blends into the background as much as possible. A photographic image of an existing tower of the same design and approximate size are included as Attachment 4 (photo 1). An image of the tree line at a similar site near Ahmic Harbour (with a simulated image of the tower superimposed) is also shown on Attachment 4, photo 2. These images will provide a good idea of what the tower would look like on the landscape.

7. **Aviation Obstruction Marking:** If possible, Spectrum Telecom Group proposes not to equip the tower with white, red, or flashing aviation obstruction lighting as the structure likely does not pose a significant threat to aircraft navigation in the area. However, Spectrum Telecom Group will conform to any aeronautical safety requirements that may be mandated by Transport Canada or NAV Canada. Typically, lighting or paint marking scheme is not required on smaller towers such as the one proposed unless it's located close to an aerodrome.
8. **Installation Practices and Structural Adequacy:** The tower proposed is commonly used throughout the region for various telecommunications applications and is designed to support the intended antenna load with a significant safety margin. The tower and associated antennas will be installed in accordance with CSA Standard S37, manufacturer's specifications, and established installation practices.
9. **Land Use Requirements:** The site chosen has been coordinated with the Municipality of Magnetawan and concurrence from the Municipality is required before construction can begin. Spectrum Telecom Group will comply with any applicable local land-use requirements that we are made aware of.
10. **Contact Information:** This notice initiates an invitation to the public to provide written comments to Spectrum Telecom Group about this proposal by March 10th, 2021. Please mail, e-mail, or fax your comments to the following address:

Spectrum Group
132 Imperial Road,
North Bay, Ontario, P1A 4M5
Attn: Mr. Wayne Lynch

E-mail: consultation@spectrumtelecom.ca

Fax: (705) 474-6192

Phone: (705) 474-6368, Toll Free: 1-800-267-8560

The Land Use Authority (LUA) for the area is the Corporation of the Municipality of Magnetawan. Contact information for the LUA is as follows.

Municipality of Magnetawan
Attention: Acting Deputy Clerk
4304 Hwy #520 P.O. Box 70
Magnetawan, ON P0A 1P0

Phone: (705) 387-3947
Email: deputyclerk@magnetawan.com
Web: www.magnetawan.com

11. **Acknowledgement of Concerns:** Any written comments from the public will be promptly acknowledged and responded to within two to three business days. Any comments received will be forwarded to the Municipality along with the corresponding response.
12. **Public Meeting:** A public meeting is scheduled by the Municipality for March 17th, 2021 at 1:00 PM. This meeting will be an opportunity to learn more about the project and also to voice any comments or concerns you may have. The meeting will be held in at the following address.

Magnetawan Community Center
4304 Hwy #520
Magnetawan, ON P0A 1P0

Kindly review this proposal and, if you wish to forward any comments, please do so within the time period outlined above.

Thank you.

*Wayne Lynch
Project Administrator
Spectrum Telecom Group*

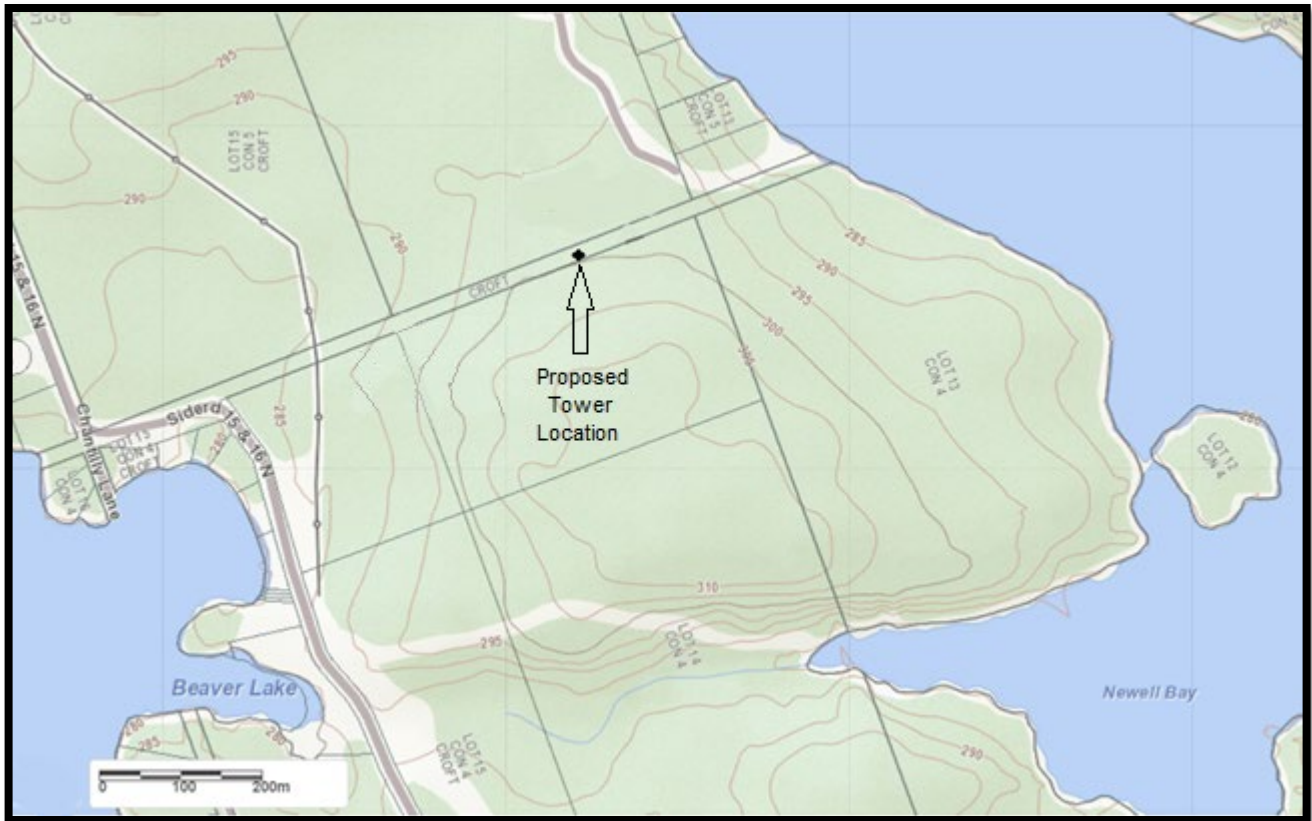
CENGN

CENGN, Canada's Centre of Excellence in Next Generation Networks, is an organization that drives technical innovation through its association with various partnerships, service providers, and technology developers. The company also partners with the federal government through Networks of Centres of Excellence (NCE) and Ontario government through the Ontario Centres of Excellence (OCE). Through its various programs, CENGN funds project initiatives to test innovative technologies and validate business case solutions that improve high-speed internet access within various rural and remote areas of the province. More information can be found on the CENGN website: <https://www.cengn.ca/about-us/>

Spectrum Telecom Group

Spectrum Telecom Group Ltd. is a wireless, two-way radio, ISP, and broadband solutions company that provides integrated telecommunications solutions and networks for residential, business, and government clients throughout the Province of Ontario. More information can be found on the Spectrum Group website: <https://spectrumtelecom.ca/company/about-us/>

Cedar Croft Proposed Tower Site Location

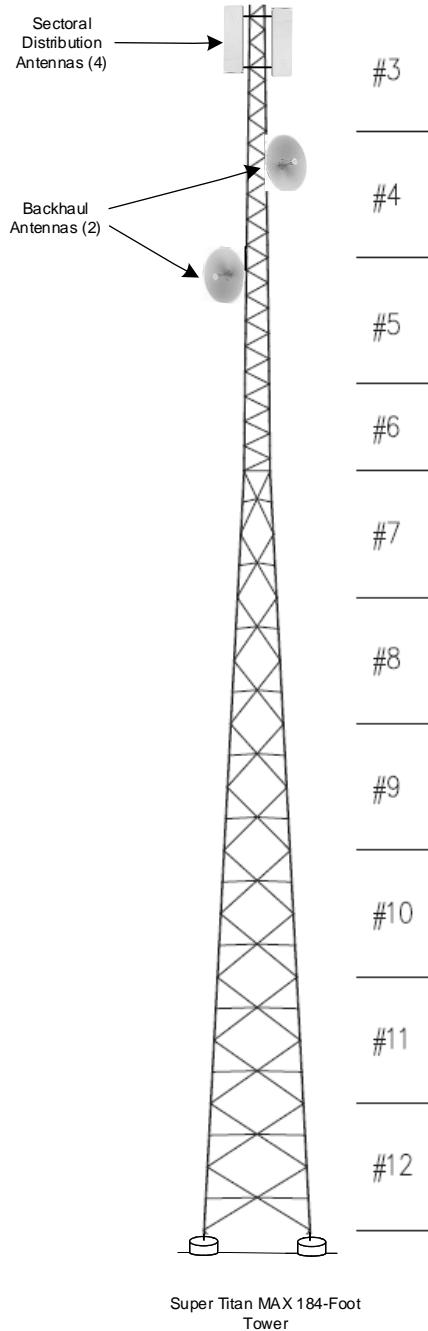


Site coordinates: Lat 45.6358 °; Long. -79.7091°

Elevation: 984 feet (300 metres) AMSL (approximate)


Tower Height: 184 feet (56.1 metres) AGL

Profile of Cedar Croft Tower



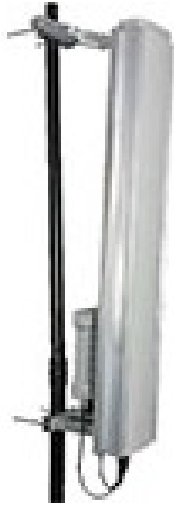
Note: The configuration and mounting of antennas on the tower mast may not be exactly as shown.

Not to scale

	TITLE	DRAWN BY	DATE
	Proposed Tower Profile	WPL	12/15/20
DESCRIPTION			
Cedar Croft 184-Foot Super Titan Tower Profile			

Images of Antenna Tower Attachments

Figure 1: Internet Distribution Antenna (one of four located near tower top)



Dimensions: Length 33 inches. X width 6.5 inches

Figure 2: Dish Antennas for Internet Backhaul Link (one of two)



Mounted above tower midpoint. Diameter: 48" (maximum)

Images of a Similar Tower Structure

Photo 1: Profile View of Similar Tower Mast with Antenna Attachments (photo taken about 300 meters away along a municipal roadway)



Photo 2: A Simulated Image of Tower Mast Superimposed on Tree Line (photo taken about 500 meters away from a proposed site at Ahmic Harbour)

