

Exhibit 13.1

Description of Proposed Antenna System

DAYTIME ANTENNA SYSTEM

1. The daytime/nighttime antenna system consists of two (2) vertical, Insulated, uniform cross-section, guyed steel towers. The towers stand 82.4 meters above 0.8 meter base piers and insulators for overall heights of 83.2 meters AGL. Including aviation beacons (0.9 meters), both towers stand at 84.1 meters AGL. Given the ground elevation of 249.9 meters AMSL, the overall heights stand at 334.0 meters AMSL.
2. The daytime/nighttime antenna system operates on 910 kHz and is arranged in the form of a quarter wave spaced two tower east-west array. The Towers are spaced 82.4 meters (270.2 ft) or 90.0° apart on a line bearing 88.0°T.
3. The existing ground system consists of 120 buried copper radials of #10 AWG soft drawn copper wire, running 82.4 meters (270.2 ft) in length, about the base of each tower excepting where shortened to terminate at the four inch copper transverse straps running midway between the towers or at the property boundaries.
4. The proposed daytime antenna system theoretical parameters are as follows:

Call: WGTO.P		CASSOPOLIS, MI, US				Hours: DAY					
Freq: 910 kHz		Lat: 41-57-14 N				Lng: 086-00-59 W		Power: 3.0 kW			
Theo RMS: 544.40 mV/m @ 1km @ 3.0 kW											
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.600	114.0	90.0	88.0	90.0	0	0	0.0	0.0	0.0	0.0

Theoretical RMS: 544.40 mV/m@1km						Erss = 597.34 mV/m@1km					
Standard RMS: 571.91 mV/m@1km						Q = 17.32 mV/m@1km					

5. The proposed nighttime antenna system theoretical parameters are as follows:

Call: WGTO.P		CASSOPOLIS, MI, US				Hours: NIGHT					
Freq: 910 kHz		Lat: 41-57-14 N				Lng: 086-00-59 W		Power: 0.026 kW			
Theo RMS: 50.68 mV/m @ 1km @ 0.026 kW											
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.600	114.0	90.0	88.0	90.0	0	0	0.0	0.0	0.0	0.0

Theoretical RMS: 50.68 mV/m@1km						Erss = 55.61 mV/m@1km					
Standard RMS: 54.24 mV/m@1km						Q = 10.00 mV/m@1km					

6. The sampling system for the existing array will continue to conform to §73.68 of the Commission's Rules regarding approved sampling systems.

Registration Detail

Reg Number	1204670	Status	Granted
File Number	A0099449	Constructed	
FAA Study	86-AGL-2097-OE1	EMI	No
FAA Issue Date	09/30/1986	NEPA	No

Antenna Structure

Structure Type 2TA1 - Antenna Tower Array - 1st N = # towers 2nd N = Position of this tower

Location (in NAD83 Coordinates)

Lat/Long	41-57-14.1 N 086-01-00.5 W	2.2 miles north of city, on the west side of Okeefe Road
City, State	Cassopolis , MI	
Center of AM Array	41-57-14.2 N 086-00-59.0 W	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
249.9	84.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
334.0	83.2

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 11, 21

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Owner & Contact Information

FRN	0006140008	Licensee ID	L00161631
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Owner

Langford , Larry W
6036 S. Bishop Street
Chicago , IL 60636

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Contact

P:
E:

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Last Action Status

Status	Granted	Received	10/13/1999
Purpose	New	Entered	10/13/1999
Mode	Interactive		

Related Applications

10/13/1999 A0099449 - New (NE)

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Comments

**Registration Detail**

Reg Number	1204671	Status	Granted
File Number	A0099451	Constructed	
FAA Study	86-AGL-2097-OE2	EMI	No
FAA Issue Date	09/30/1986	NEPA	No

Antenna Structure

Structure Type 2TA2 - Antenna Tower Array - 1st N = # towers 2nd N = Position of this tower

Location (in NAD83 Coordinates)

Lat/Long	41-57-14.3 N 086-00-57.5 W	2.2 miles north of city, on west side of Okeefe Road
City, State	Cassopolis , MI	
Center of AM Array	41-57-14.2 N 086-00-59.0 W	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
249.9	84.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
334.0	83.2

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 11, 21

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Owner & Contact Information

FRN	0006140008	Licensee ID	L00161631
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Owner

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Last Action Status

Status	Granted	Received	10/13/1999
Purpose	New	Entered	10/13/1999
Mode	Interactive		

Related Applications

10/13/1999 A0099451 - New (NE)

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Comments

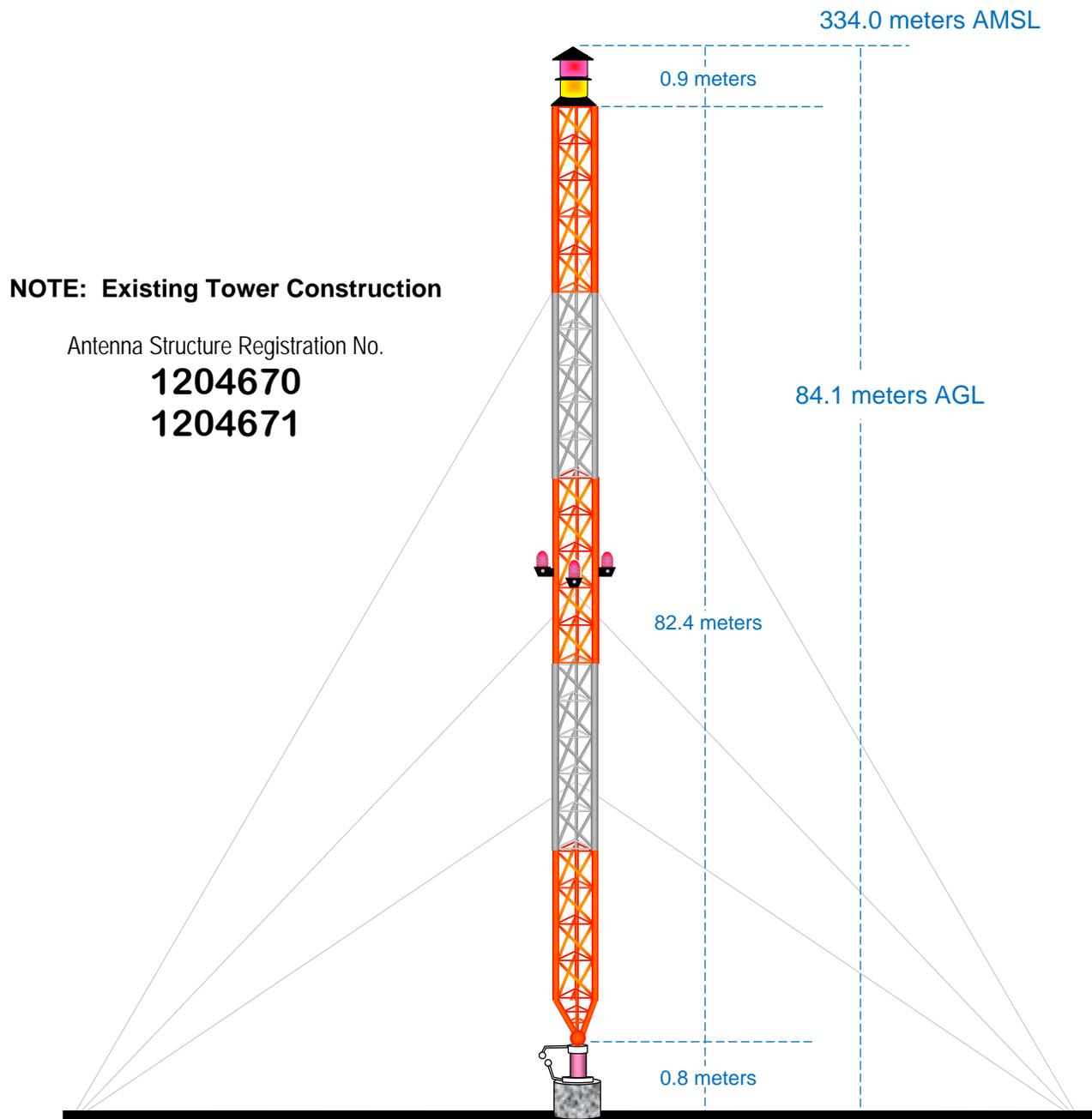
Exhibit 13.3

Vertical Plan of Antenna System

The site is located 2.2 miles north of the city on the west side of Okeefe Road, the city of Cassopolis, Cass County, Michigan.

Site Location (NAD 27)

NL: 41° 57' 14"
WL: 86° 00' 59"



NOTE: Existing Tower Construction

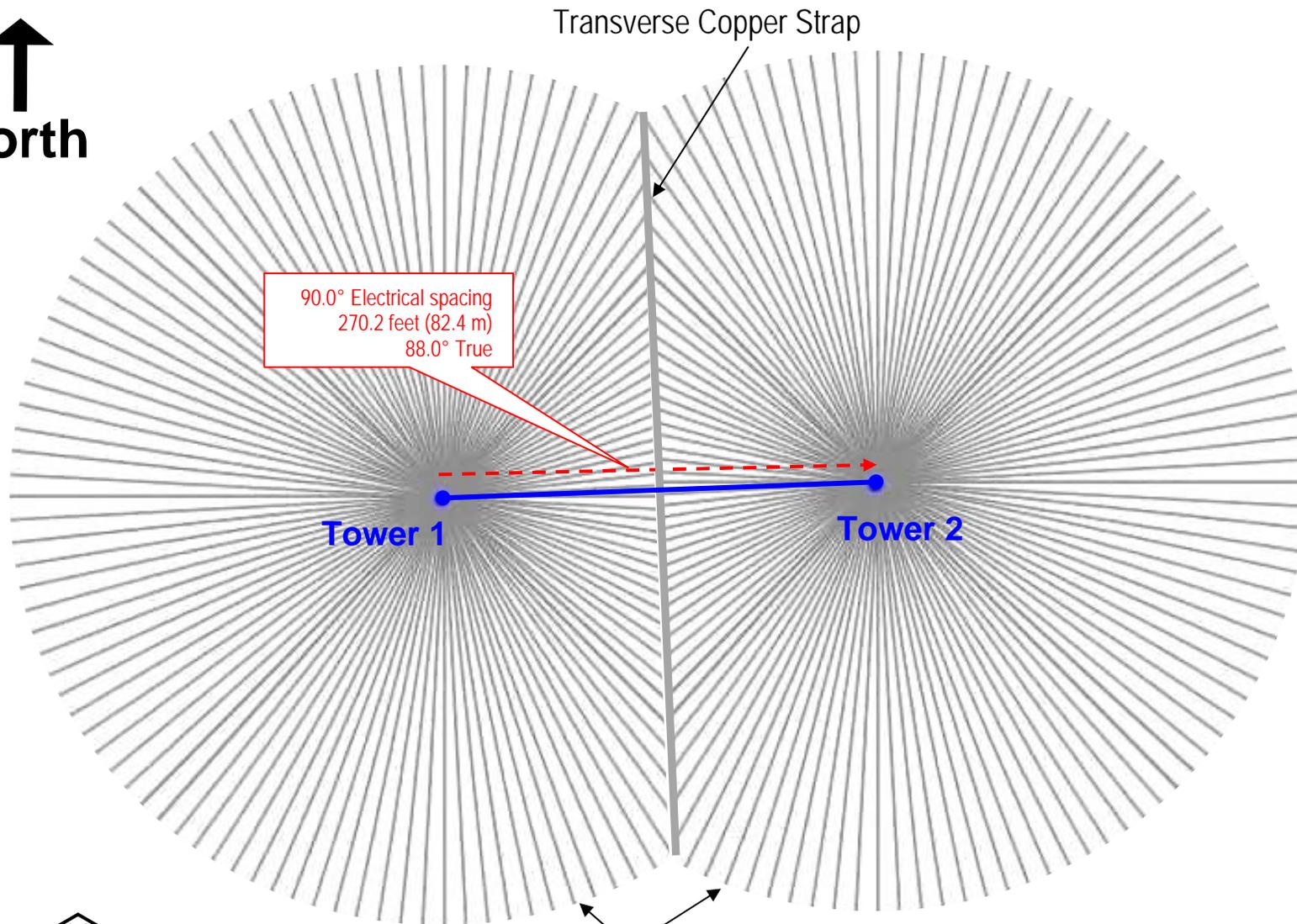
Antenna Structure Registration No.

1204670
1204671

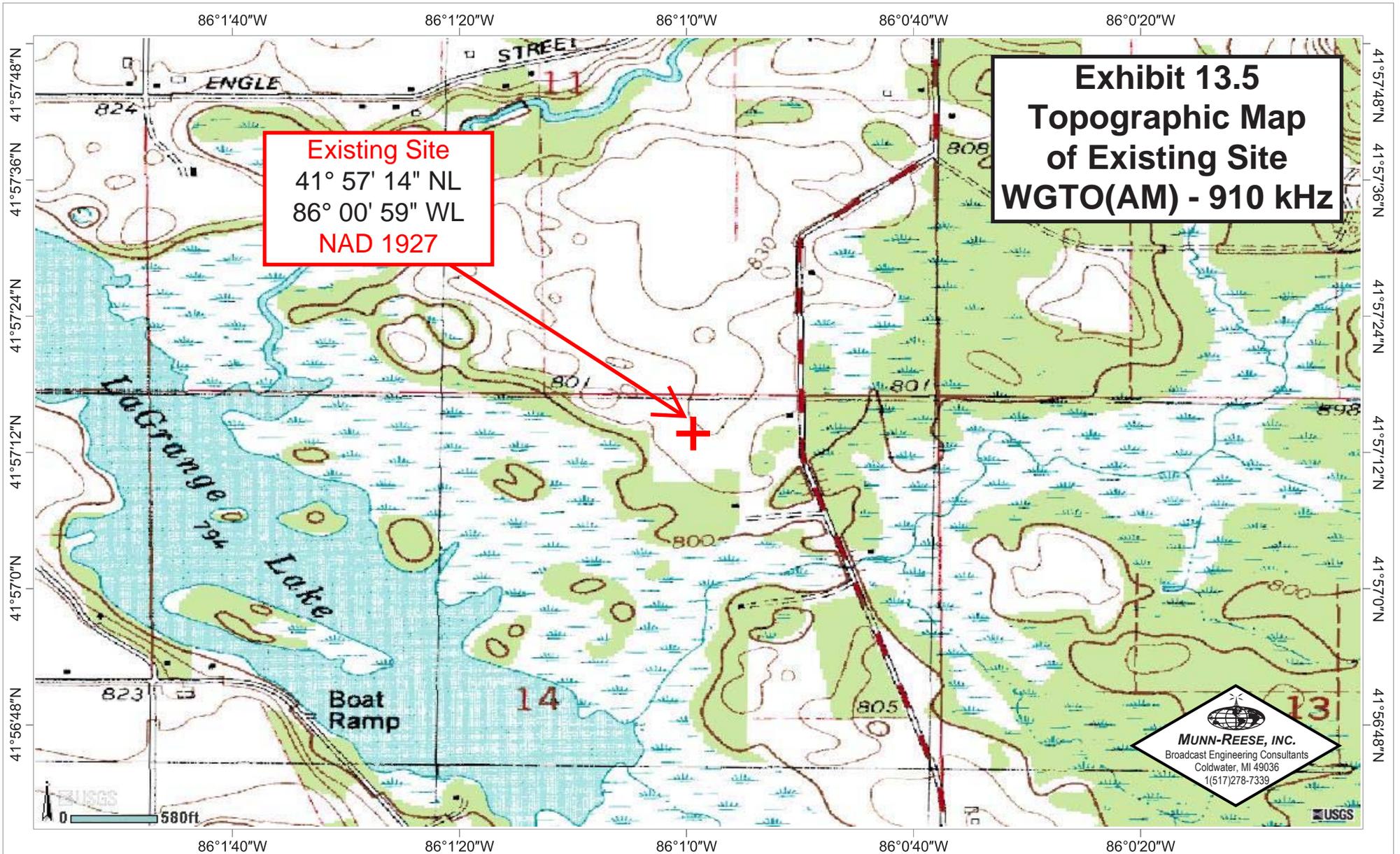
Ground Elevation = 249.9 m AMSL
Drawing is not to Scale

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.4 Horizontal Plat of Antenna Array Ground System



The existing ground system consists of 120 buried copper radials, extending 82.4 meters (270.2 ft) in length, about the base of the towers except where shortened to terminate at property boundaries. The material used for the radials is #10 AWG, soft drawn copper wire or equivalent.



41°57'49"N
 86°1'57.31"W Map Extent 86°0'0.63"W
 41°56'39"N



Geographic Coordinate System (WGS84)

86°1'20"W

86°1'10"W

86°1'0"W

86°0'50"W

86°0'40"W

41°57'30"N

41°57'24"N

41°57'18"N

41°57'12"N

41°57'6"N

41°57'0"N

41°57'30"N

41°57'24"N

41°57'18"N

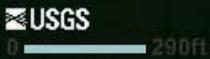
41°57'12"N

41°57'6"N

41°57'0"N

Exhibit 13.6
Photograph of
Existing Site
WGTO(AM) - 910 kHz

Existing Site



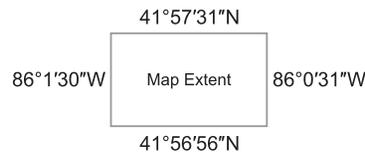
86°1'20"W

86°1'10"W

86°1'0"W

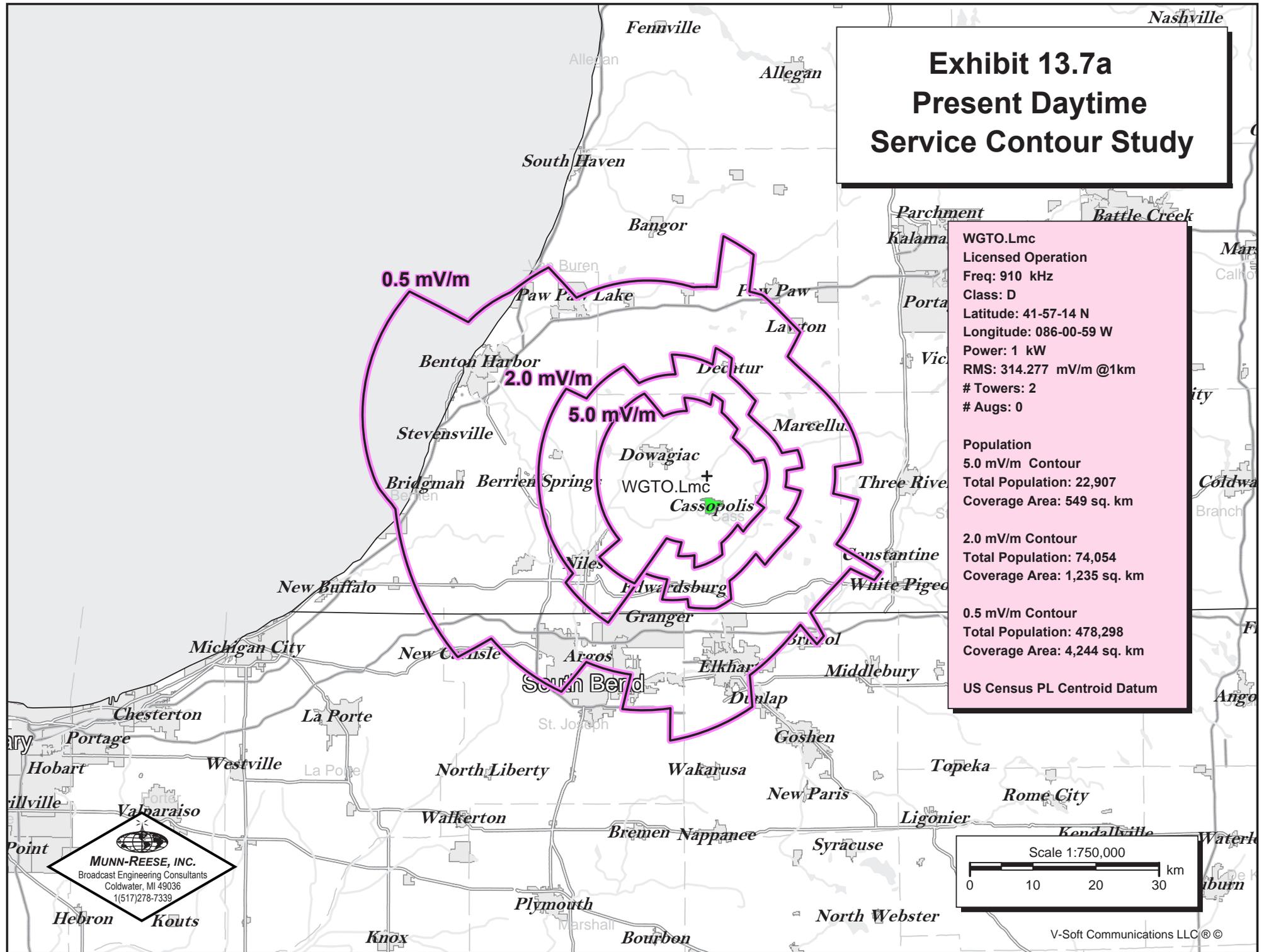
86°0'50"W

86°0'40"W



Geographic Coordinate System (WGS84)

Exhibit 13.7a Present Daytime Service Contour Study



WGTO.Lmc
 Licensed Operation
 Freq: 910 kHz
 Class: D
 Latitude: 41-57-14 N
 Longitude: 086-00-59 W
 Power: 1 kW
 RMS: 314.277 mV/m @1km
 # Towers: 2
 # Aucs: 0

Population
 5.0 mV/m Contour
 Total Population: 22,907
 Coverage Area: 549 sq. km

2.0 mV/m Contour
 Total Population: 74,054
 Coverage Area: 1,235 sq. km

0.5 mV/m Contour
 Total Population: 478,298
 Coverage Area: 4,244 sq. km

US Census PL Centroid Datum

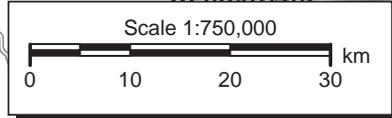


Exhibit 13.7b Proposed Daytime Service Contour Study

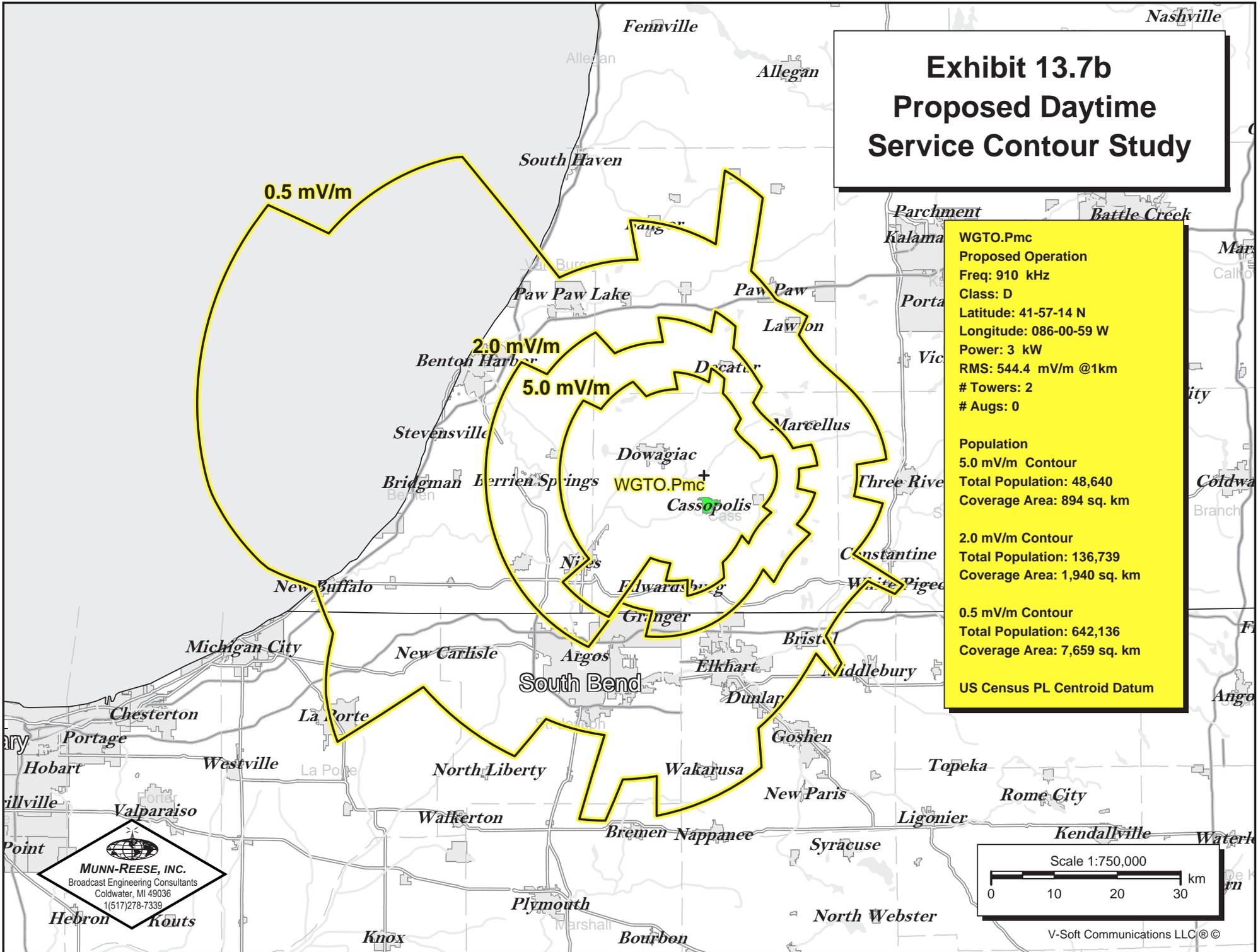
WGTO.Pmc
 Proposed Operation
 Freq: 910 kHz
 Class: D
 Latitude: 41-57-14 N
 Longitude: 086-00-59 W
 Power: 3 kW
 RMS: 544.4 mV/m @1km
 # Towers: 2
 # Aucs: 0

Population
 5.0 mV/m Contour
 Total Population: 48,640
 Coverage Area: 894 sq. km

2.0 mV/m Contour
 Total Population: 136,739
 Coverage Area: 1,940 sq. km

0.5 mV/m Contour
 Total Population: 642,136
 Coverage Area: 7,659 sq. km

US Census PL Centroid Datum



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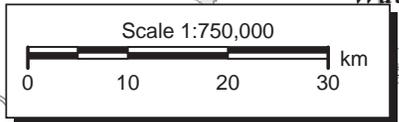


Exhibit 13.8 Daytime & Nighttime 1.0 V/m "Blanket" Contour Study

WGTO.Pmc
Proposed Daytime Operation
 Freq: 910 kHz
 Class: D
 Latitude: 41-57-14 N
 Longitude: 086-00-59 W
 Power: 3 kW
 RMS: 544.4 mV/m @1km
 # Towers: 2
 # Augs: 0

Population
 1.0 V/m "Blanket" Contour
 Total Population: 10
 US Census PL Centroid Datum

WGTO.P
Proposed Nighttime Operation
 Freq: 910 kHz
 Class: D
 Latitude: 41-57-14 N
 Longitude: 086-00-59 W
 Power: 0.026 kW
 RMS: 50.681 mV/m @1km
 # Towers: 2
 # Augs: 0

1.0 V/m "Blanket" Contour
 Total Population: none
 US Census PL Centroid Datum

1.0 V/m Daytime Contour

1.0 V/m Nighttime Contour

