

### Channel Study

REFERENCE CH# 256D - 99.1 MHz, Pwr= 0.04 kW, HAAT=41.6M, COR= 223 M DISPLAY DATES  
 42 23 22.0 N. Average Protected F(50-50)= 5.3 km DATA 08-08-07  
 82 59 08.0 W. SEARCH 08-08-07

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
254B Detroit	WVMV	LIC CN MI	272.7 92.6	13.51 BLH19890928KF	42 23 83 42.0 58.0	50.000 142	5.8 332	64.0 Cbs Radio East Inc.	3.26	-51.34*
258B Detroit	WYCD	LIC CX MI	296.0 115.9	16.32 BMLH20051017AAM	42 27 83 13.0 50.0	17.500 248	5.6 440	64.5 Cbs Radio Inc. Of Michigan	6.31	-49.10*
256B East Lansing	WFMK	LIC CN MI	284.9 103.9	128.43 BLH19870605KA	42 40 84 33.0 00.0	28.000 178	128.5 452	62.7 Citadel Broadcasting Compa	-4.50	44.61
256B1 Fremont	WFRO-FM	LIC CX OH	184.3 4.3	113.98 BLH20060822AHE	41 21 83 58.0 20.0	11.500 126	101.6 301	42.1 Bas Broadcasting, Inc.	7.20	51.57
256A Lexington	RADD	ADD MI	18.4 198.7	115.52	43 22 82 30.0 04.0	6.000 -217	68.3 0	15.8 Edward Czelada	42.06	83.05
256D Port Huron	AP6410	APP C MI	32.9 213.3	76.68 BNPFT20030317FPI	42 58 82 01.9 25.3	0.027 80	22.1 270	6.6 Edgewater Broadcasting, In	48.86	50.97
256D Port Huron	AP0332	APP C MI	32.0 212.4	79.35 BNPFT20030317JPJ	42 59 82 36.0 06.0	0.080 41	20.6 231	6.2 Michigan Community Radio	53.00	54.14

Terrain database is NGDC 30 SEC  
 ERP and HAAT on direct-line with reference station.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WVMV, channel 254B, Detroit, MI. The predicted F(50-50) field strength of WVMV at the proposed translator site is 85.2 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 125.2 dBu. This interfering contour extends approximately 24.3 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 40 meter level on a 58 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), and aerial photo (see Exhibit 12D) which indicate a lack of structures near the proposed tower which could be tall enough to enter the 24.3 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

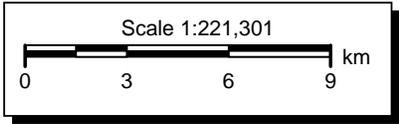
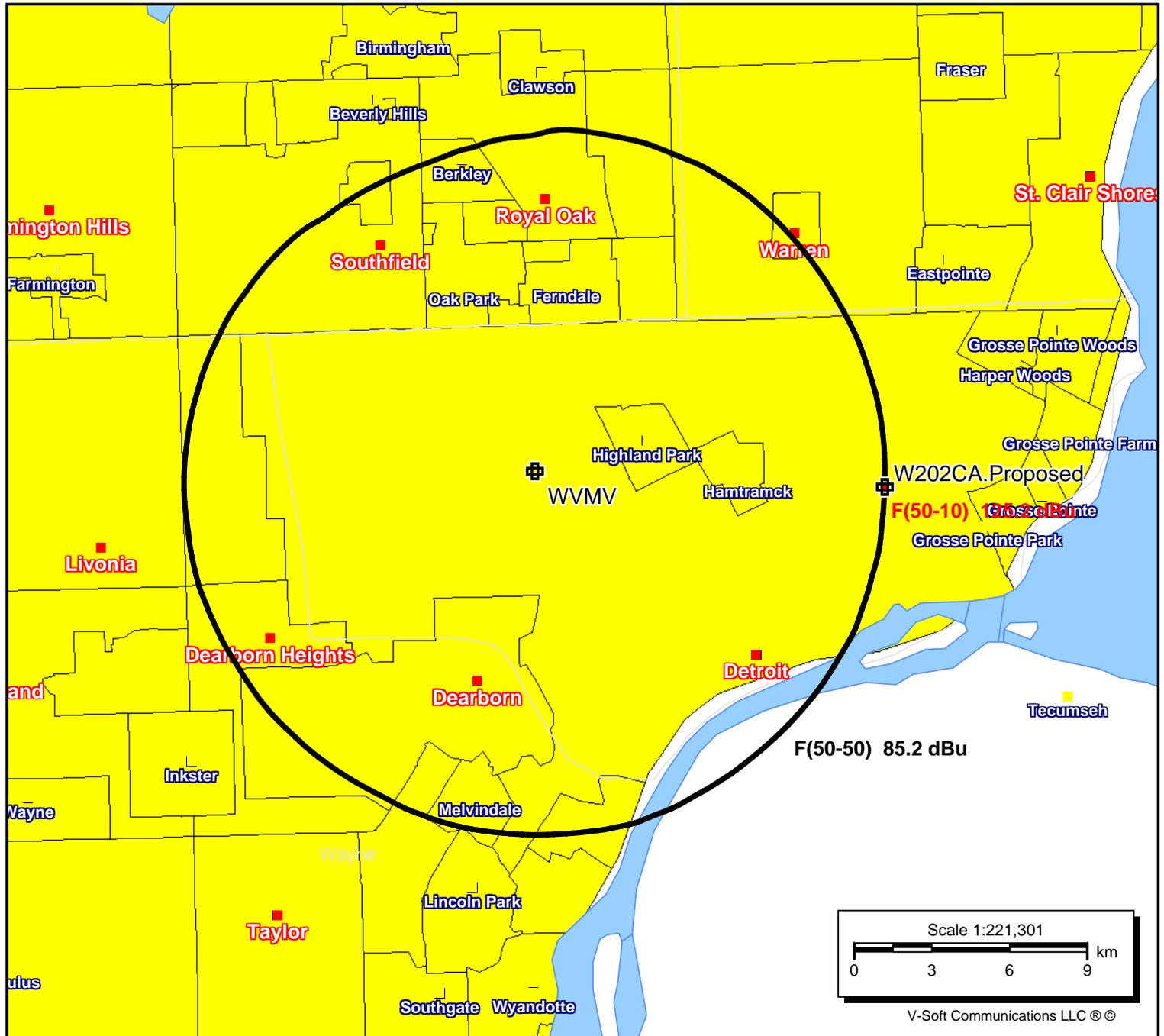
**W202CA.Proposed**

Latitude: 42-23-22 N  
Longitude: 082-59-08 W  
ERP: 0.04 kW  
Channel: 256  
Frequency: 99.1 MHz  
AMSL Height: 223.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WVMV**

BLH19890928KF  
Latitude: 42-23-42 N  
Longitude: 083-08-58 W  
ERP: 50.00 kW  
Channel: 254  
Frequency: 98.7 MHz  
AMSL Height: 332.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

■ W202CA.Proposed  
■ WVMV



**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WYCD, channel 258B, Detroit, MI. The predicted F(50-50) field strength of WYCD at the proposed translator site is 82.4 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 122.4 dBu. This interfering contour extends approximately 33.6 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 40 meter level on a 58 meter tower).

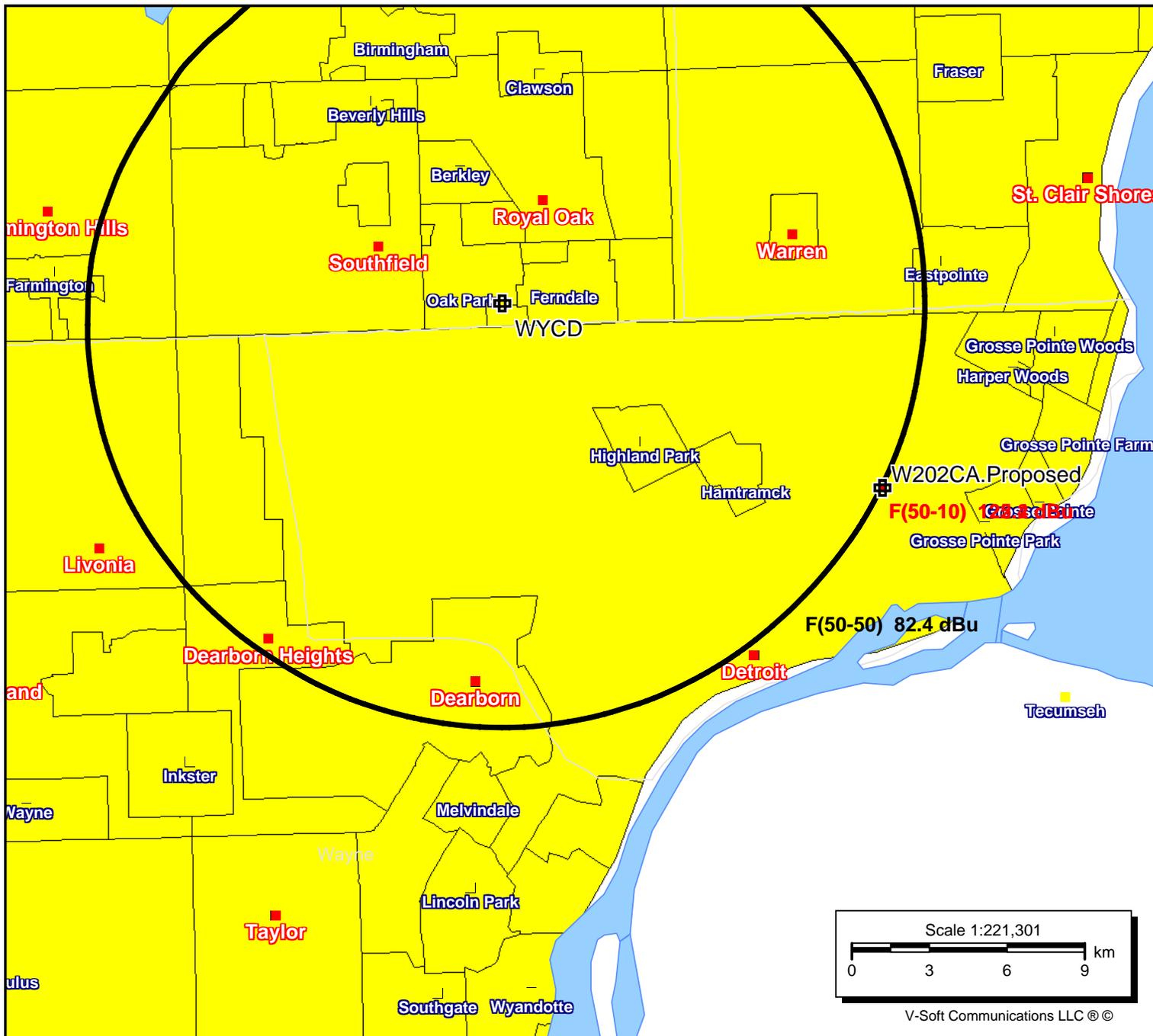
To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), and aerial photo (see Exhibit 12D) which indicate a lack of structures near the proposed tower which could be tall enough to enter the 33.6 meter interference aperture.

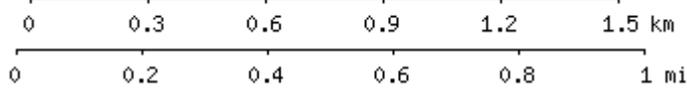
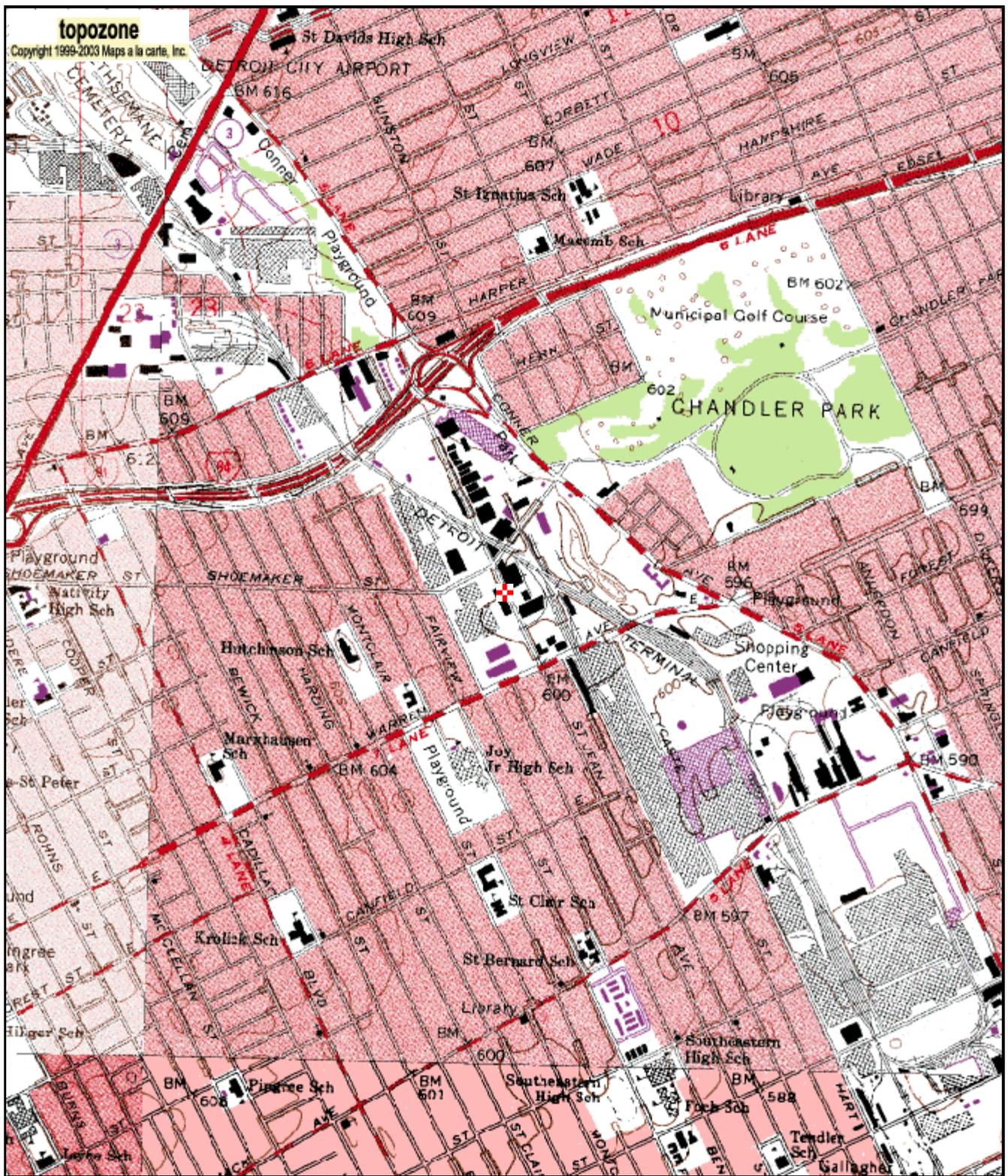
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

**W202CA.Proposed**  
Latitude: 42-23-22 N  
Longitude: 082-59-08 W  
ERP: 0.04 kW  
Channel: 256  
Frequency: 99.1 MHz  
AMSL Height: 223.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

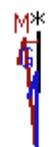
**WYCD**  
BMLH20051017AAM  
Latitude: 42-27-13 N  
Longitude: 083-09-50 W  
ERP: 17.50 kW  
Channel: 258  
Frequency: 99.5 MHz  
AMSL Height: 440.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

■ W202CA.Proposed  
■ WYCD





42° 23' 22"N, 82° 59' 08"W (NAD27)  
Elevation 599.5 ft / 182.7 m (USGS NED)  
**USGS Grosse Pointe (MI) Quadrangle**  
Projection is UTM Zone 17 NAD83 Datum



M=-7.264  
G=-1.339

