

Channel Study

| REFERENCE         |         | CH# 292D - 106.3 MHz, Pwr= 0.028 kW, HAAT= 10.2 M, COR= 203 M |                |                           |                          |                    |                   |                                    |                         | DISPLAY DATES   |  |
|-------------------|---------|---|----------------|---------------------------|--------------------------|--------------------|-------------------|------------------------------------|-------------------------|-----------------|--|
| 42 22 40.0 N.     |         | Average Protected F(50-50)= 4.1 km                            |                |                           |                          |                    |                   |                                    |                         | DATA 11-08-07   |  |
| 83 14 37.0 W.     |         |   |                |                           |                          |                    |                   |                                    |                         | SEARCH 11-08-07 |  |
| CH<br>CITY        | CALL    | TYPE ANT<br>STATE   | AZI.<br><--    | DIST<br>FILE #            | LAT.<br>LNG.             | Pwr(kW)<br>HAAT(M) | INT(km)<br>COR(M) | PRO(km)<br>LICENSEE                | *IN*<br>(Overlap in km) | *OUT*           |  |
| 292D<br>Westland  | W292DK  | CP C<br>MI  | 0.0<br>0.0     | 0.00<br>BMPFT20060315AEC  | 42 22 40.0<br>83 14 37.0 | 0.010              | 11.5<br>242       | 3.6<br>Educational Media Foundati  | -15.56*                 | -16.61*         |  |
| 290B<br>Detroit   | WDMK    | LIC DCN<br>MI   | 18.7<br>198.7  | 10.95<br>BLH19840619CK    | 42 28 16.0<br>83 12 03.0 | 20.000<br>221      | 5.7<br>429        | 65.1<br>Radio One Of Detroit, Llc  | 1.17                    | -54.85*<        |  |
| 294B<br>Detroit   | WDTW-FM | LIC CN<br>MI  | 107.3<br>287.4 | 17.14<br>BMLH19890804KA   | 42 19 55.0<br>83 02 42.0 | 61.000<br>155      | 6.3<br>338        | 67.3<br>Amfm Radio Licenses, L.l.c | 6.76                    | -50.95*<        |  |
| 292B<br>Sarnia    | R---    | DEL<br>ON   | 51.1<br>231.7  | 94.78                     | 42 54 31.0<br>82 20 19.0 | 50.000<br>150      | 137.8<br>338      | 65.1                               | -48.77*<                | 10.52           |  |
| 291B<br>Charlotte | WJXQ    | LIC CX<br>MI  | 271.3<br>90.3  | 113.59<br>BLH20060103ABP  | 42 23 31.0<br>84 37 22.0 | 49.000<br>151      | 79.1<br>442       | 66.0<br>Rubber City Radio Group    | 30.40                   | 39.34           |  |
| 291B<br>Charlotte | AL4309  | RSV<br>MI   | 271.2<br>90.3  | 113.59<br>RM11134         | 42 23 28.0<br>84 37 22.0 | 50.000<br>150      | 78.9<br>438       | 65.8                               | 30.64                   | 39.60           |  |
| 292A<br>Saginaw   | WGER    | LIC ZCX<br>MI   | 335.0<br>154.5 | 135.07<br>BLH20040713AAC  | 43 28 36.0<br>83 57 06.0 | 4.400<br>116       | 84.2<br>299       | 28.0<br>Nm Licensing Llc           | 46.79                   | 94.02           |  |
| 292D<br>Linden    | W292DA  | LIC C<br>MI   | 318.5<br>138.1 | 66.63<br>BLFT20070827AEG  | 42 49 30.0<br>83 47 05.0 | 0.055              | 15.5<br>315       | 4.8<br>Educational Media Foundati  | 47.09                   | 48.80           |  |
| 293A<br>Delta     | WRWK    | LIC ZCX<br>OH   | 207.8<br>27.4  | 108.36<br>BLH20030325ADT  | 41 30 49.0<br>83 51 00.0 | 4.800<br>112       | 43.8<br>309       | 28.5<br>Cumulus Licensing Llc      | 60.45                   | 74.02           |  |
| 293D<br>Flint     | AP9825  | APP C<br>MI   | 332.9<br>152.5 | 79.82<br>BNPFT20030313BDF | 43 00 57.0<br>83 41 30.0 | 0.170              | 9.2<br>258        | 6.4<br>Educational Media Foundati  | 66.55                   | 67.60           |  |

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM  
ERP and HAAT on direct-line with reference station.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E),  
Beamtilt(Y,N,X)

""affixed to 'IN' or 'OUT' values = site inside protected contour.

"<" = Contour Overlap

Reference station has protected zone issue: Canada.

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

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WDMK, channel 290B, Detroit, MI. The predicted F(50-50) field strength of WDMK at the proposed translator site is 89.6 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 129.6 dBu. This interfering contour extends approximately 12.3 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

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, and therefore no structure which is near enough to enter the 12.3 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.

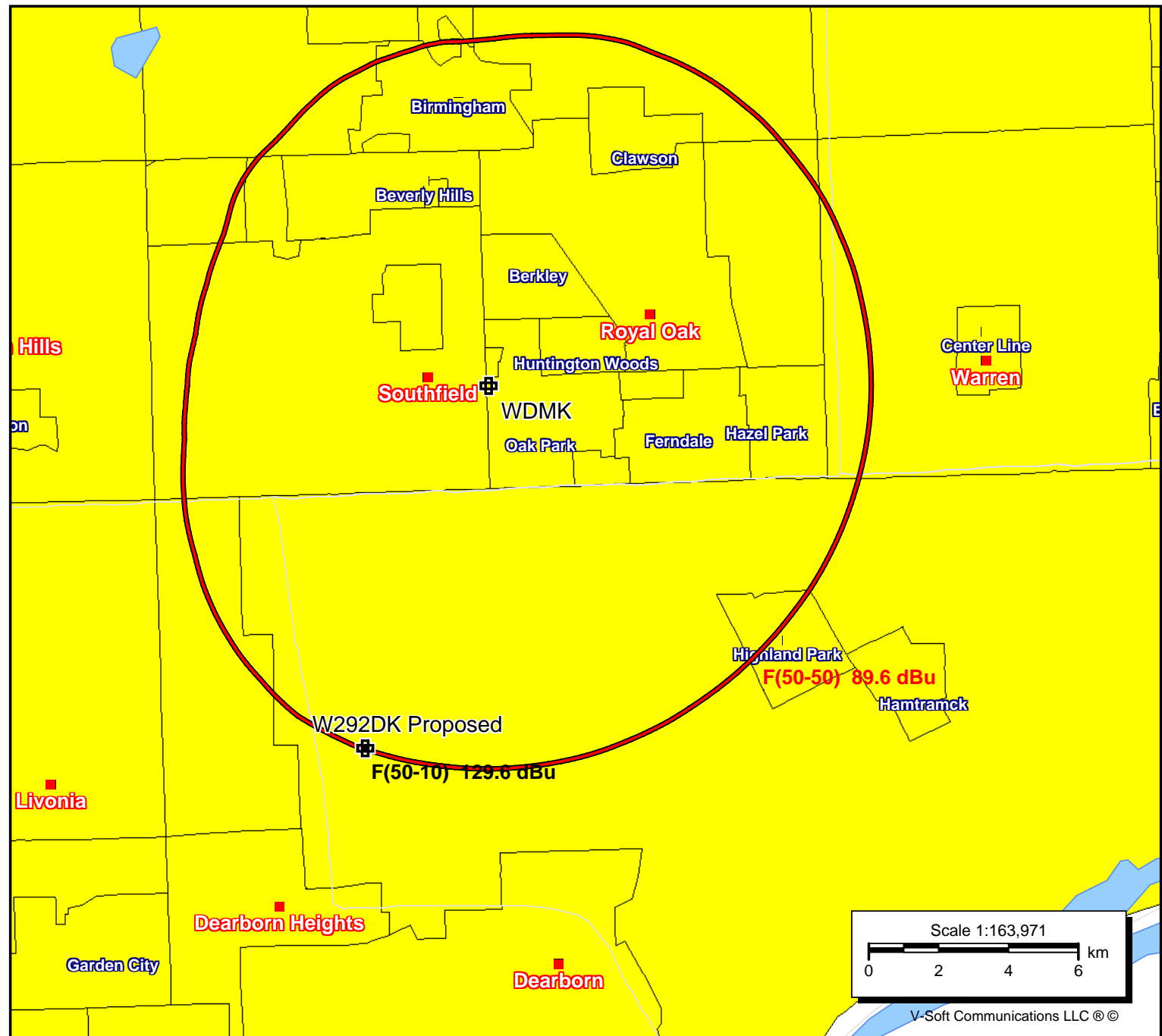
**W292DK Proposed**

BMPFT20060315AEC  
Latitude: 42-22-40 N  
Longitude: 083-14-37 W  
ERP: 0.028 kW  
Channel: 292  
Frequency: 106.3 MHz  
AMSL Height: 203.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WDMK**

BLH19840619CK  
Latitude: 42-28-16 N  
Longitude: 083-12-03 W  
ERP: 20.00 kW  
Channel: 290  
Frequency: 105.9 MHz  
AMSL Height: 429.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

■ W292DK Proposed  
■ WDMK



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

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WDTW, channel 294B, Detroit, MI. The predicted F(50-50) field strength of WDTW at the proposed translator site is 82.8 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 122.8 dBu. This interfering contour extends approximately 26.8 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

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, and therefore no structure which is near enough to enter the 26.8 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.

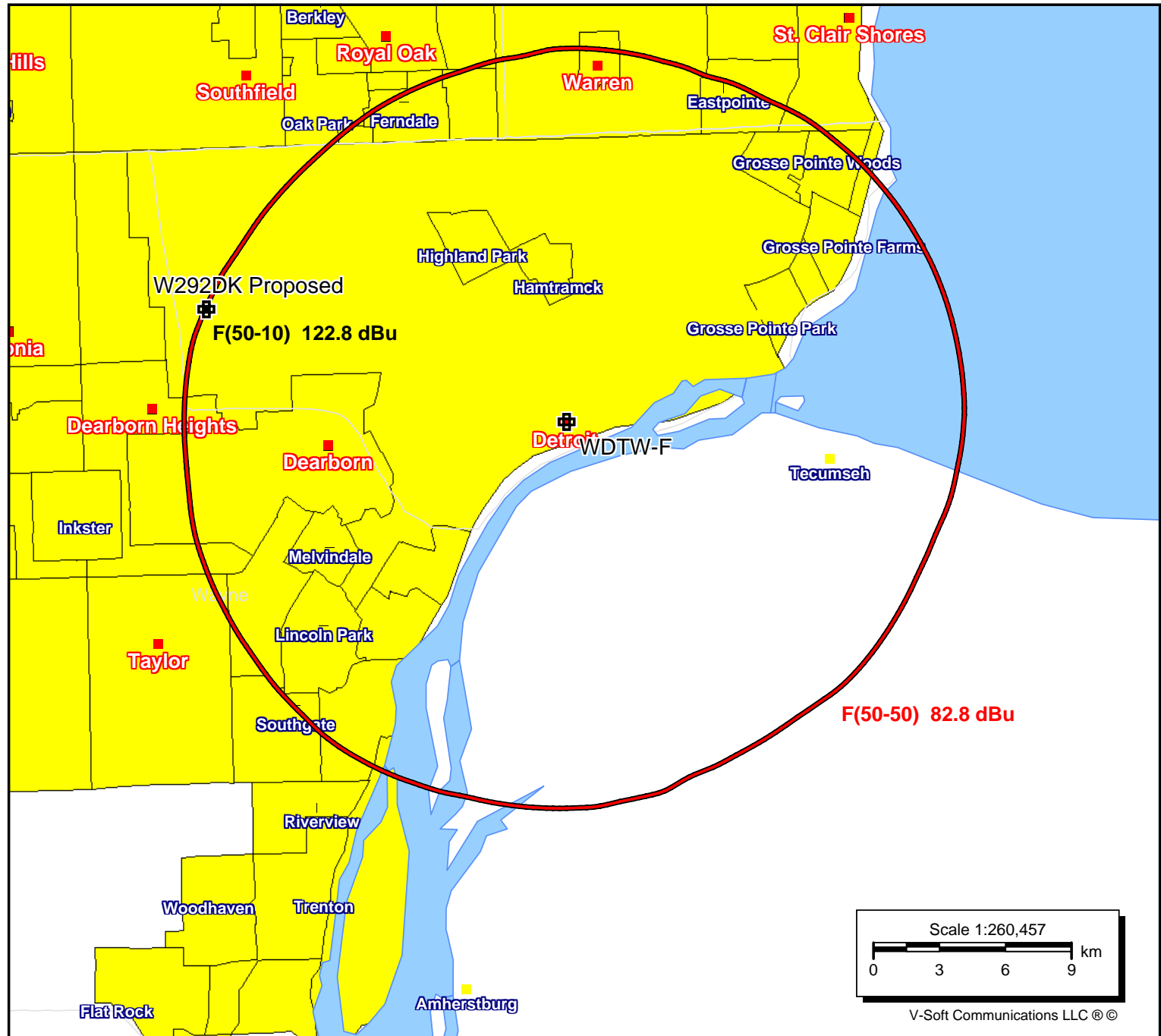
**W292DK Proposed**

BMPFT20060315AEC  
Latitude: 42-22-40 N  
Longitude: 083-14-37 W  
ERP: 0.028 kW  
Channel: 292  
Frequency: 106.3 MHz  
AMSL Height: 203.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

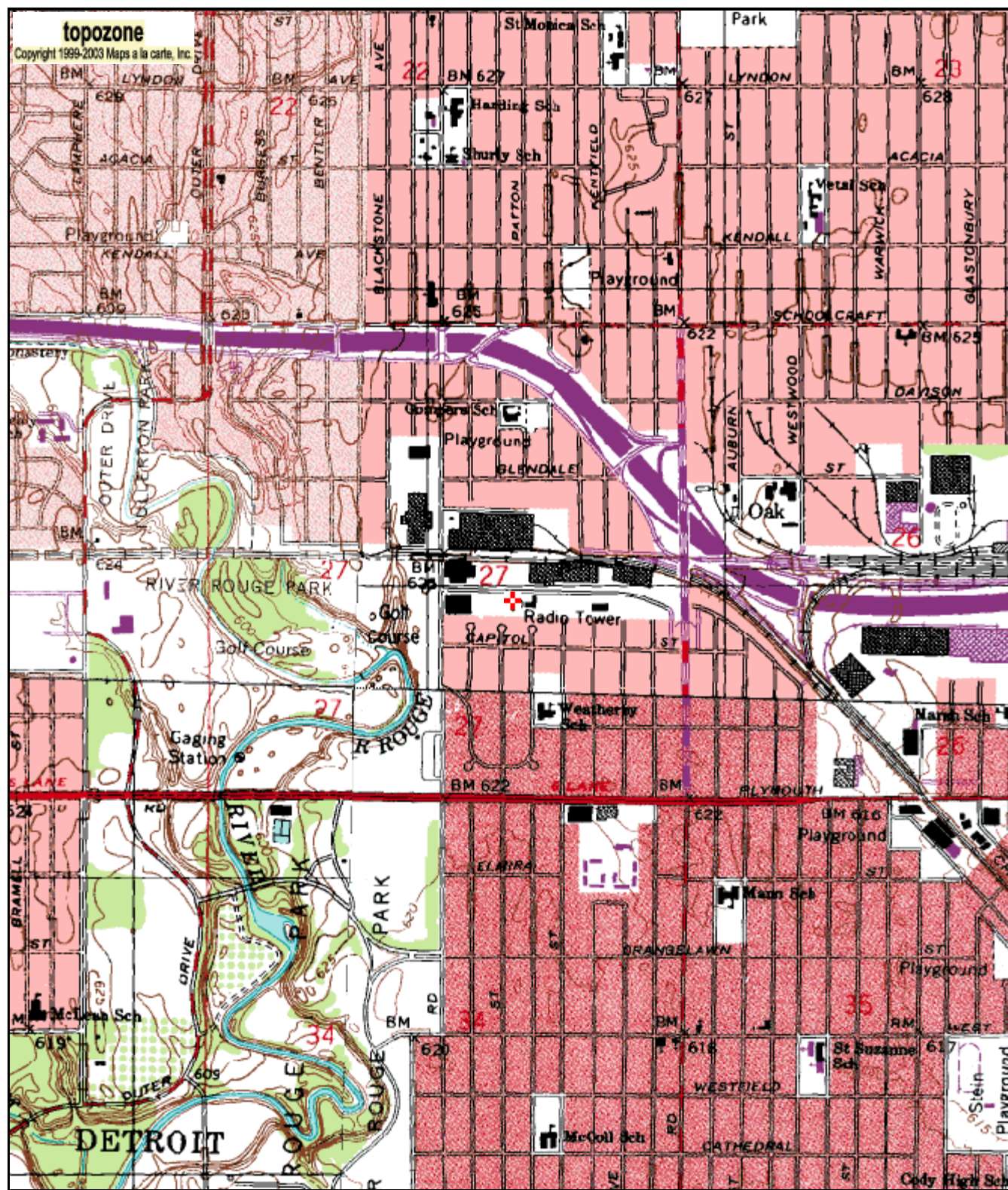
**WDTW-F**

BMLH19890804KA  
Latitude: 42-19-55 N  
Longitude: 083-02-42 W  
ERP: 61.00 kW  
Channel: 294  
Frequency: 106.7 MHz  
AMSL Height: 338.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

■ W292DK Proposed  
■ WDTW-F

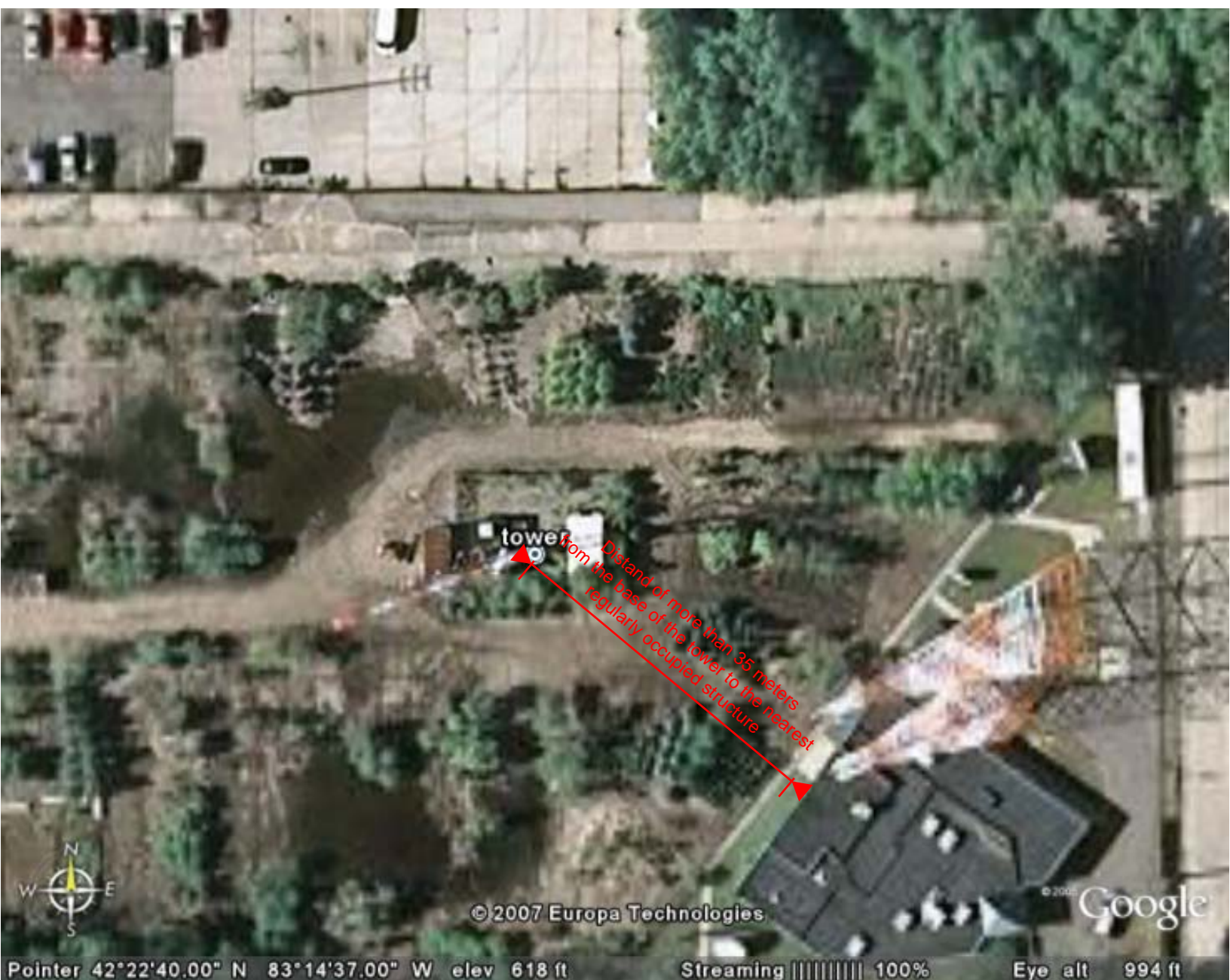






M\*  
G\*  
M=-7.052  
G=-1.513





This application specifies a center of radiation of 12 meters on a 106 meter tower. EMF's interference aperture extends approximately 26.8 meters from the proposed antenna location on the tower. This satellite photograph obtained from Google Earth has been provided to show that the closest regularly occupied structure is more than 30 meters from the base of the proposed tower. Thus, there are no structures nearby that enter the interference aperture.