

# TV6 Calculation for Constantine, MI

TV6 Call sign  
WITI

Fcc Search  
20.7 dBu

City  
Milwaukee

State  
WI

COR AMSL (m)  
502

HAAT(m)  
305

Latitude  
430526

Longitude  
875350

+

TV ERP (kW)  
100.000

FM Horizontal ERP  
9.7

☐ Outside City Of 50k

TV

FM

Plot Scale  
125

☒ DLG ☐ AJPI

☒ Hide Zeros

☐ Plot All Centroids

☐ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to 0 dBu

☐ Print Centroids

☒ Print TV Contour Table

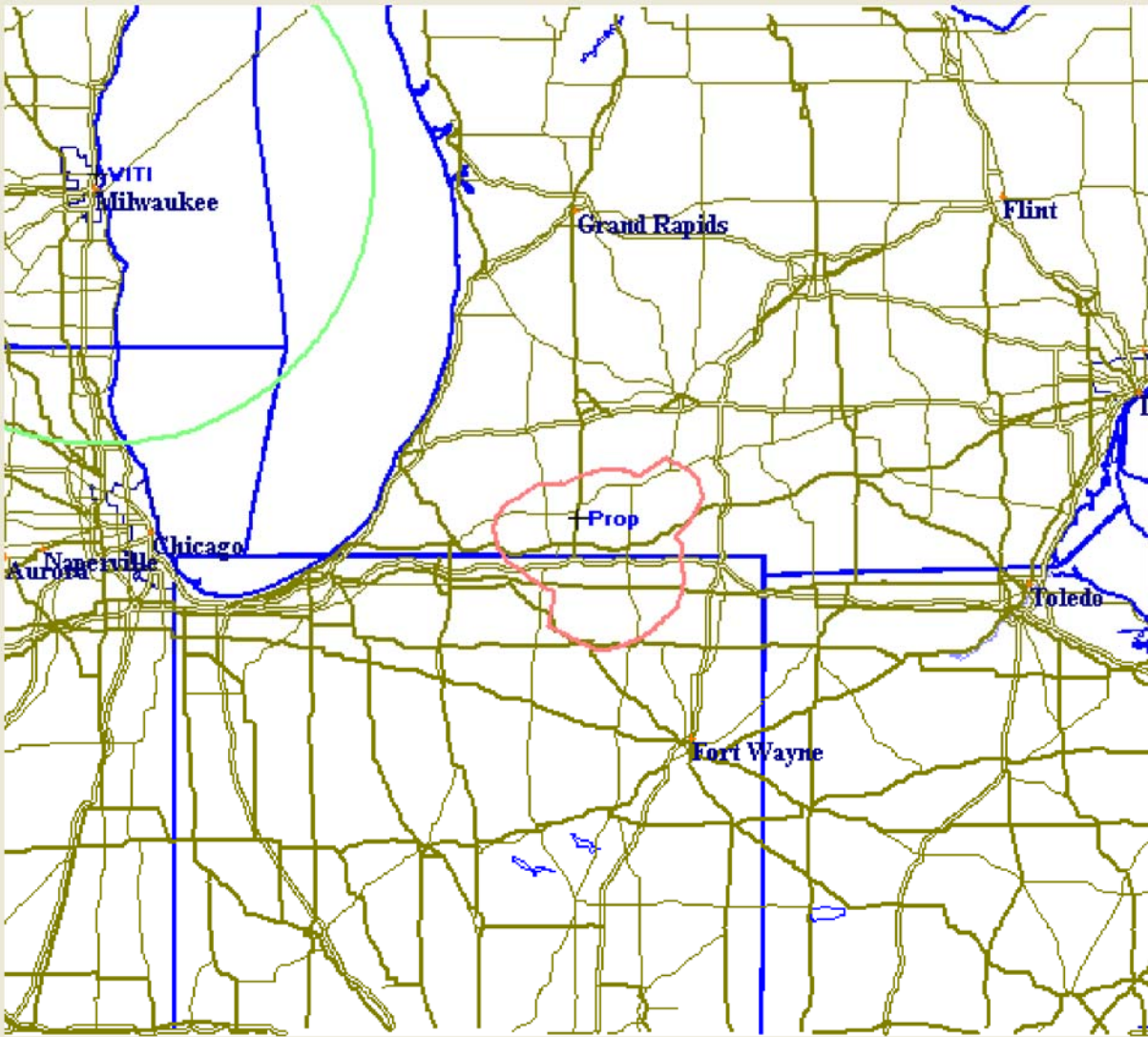
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## Channel Six TV Protection Study

WITI	06	100.000kW ERP	502.0M COR AMSL	305.0M HAAT	Lat. 430526	Lon. 875350
Prop	203	9.700kW ERP	343.0M COR AMSL	89.0M HAAT	Lat. 415337	Lon. 853953

Distance from TV to FM 226.6366km Azi 305.9degr Rev Azi 125.9 degr  
Cutoff radius for channel 203 is 246 km

The FM horizontal polarization component is 9.700 kW,  
and the area of just perceptible interference does intersect a city of 50k,  
so the effective ERP is (Pw/10+Ph) 10.6700kW

The TV6 signal strength at the FM transmit site is 20.7 dBu  
This strength is outside the 68 dBu Grade A contour,  
allowing a 6 dB bonus to be applied to the allowable FM signal  
to F centroids (centroids in the angles between the FM station and the TV station)

TV Contour	Undesired/Desired Ratio	Total	Directional Total
47	6.5	53.5	59.5

Population in affected area 0