

Figure 1

## Pensacola Christian College, Inc.

REFERENCE			CH# 208D - 89.5 MHz, Pwr= 0.01 kW, HAAT= 98.0 M, COR= 418 M							DISPLAY DATES		
40 03 26.0 N.			Average Protected F(50-50)= 5.79 km							DATA 07-21-11		
80 42 31.0 W.			Omni-directional							SEARCH 07-21-11		
CH CITY	CALL	TYPE STATE	ANT AZI ---	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*		
210B Wheeling	WVNP	LIC_CY WV	35.8 215.9	21.8 BLED19811102AL	40 12 58.0 80 33 31.0	25.000 152	4.9 484	45.3 West Virginia Educational	11.6	-23.7*<		
210D Wheeling	WVNP-FM1	LIC_C_ WV	277.1 97.1	3.7 BLFTB20070611ABO	40 03 41.0 80 45 08.0	0.041	0.4 492	11.2 West Virginia Educational	-2.7*<	-7.7*<		
207B Pittsburgh	WQED-FM	LIC_C_ PA	55.4 235.9	76.5 BLED20010209AAG	40 26 46.0 79 57 51.0	28.000 199	78.2 505	53.0 Wqed Multimedia	-5.6*<	18.0		
208A Coshocton	WHVY	LIC_DCX OH	287.9 107.2	91.4 BLED20110607AAW	40 18 17.0 81 44 04.0	1.750 85	67.0 369	20.9 Clyde Educational Broadcas	17.8	48.6		
206B1 Cambridge	WOUC-FM	LIC_CN OH	274.7 94.3	49.5 BLED19870522KB	40 05 32.0 81 17 19.0	5.000 152	2.9 467	30.5 Ohio University	40.9	18.7		
205A Steubenville	WBJV	LIC_CX OH	357.4 177.4	34.3 BLED20020221AAE	40 21 56.0 80 43 36.0	0.125 78	0.8 403	9.5 American Family Associatio	26.1	24.6		
208A Bel pre	WCVV	LIC_CN OH	224.2 43.6	113.1 BLED19980622KC	39 19 27.0 81 37 33.0	4.400 117	81.8 351	26.4 Bel pre Educational Broadca	25.0	65.9		
208B Petersburg	WAUA	LIC_CX WV	127.3 308.2	155.3 BLED20040510ABJ	39 12 07.0 79 16 31.0	10.000 322	120.1 1173	49.8 West Virginia Educational	29.4	86.7		
06 1 Weston	WDTV-DR	GRR_DHN WV	167.3 347.5	111.9 BPRM20001002ADW	39 04 29.0 80 25 28.0	10.000 253	3.0 634	69.7 Withers Broadcasting Compa	72.7R	39.2M		
209A West Union	WVGW	CP_CX WV	185.5 5.5	85.8 BMPED20110309ABA	39 17 22.0 80 48 16.0	2.350 120	40.4 430	26.7 Araiza Revival Ministries,	39.5	50.8		
06-T Pittsburgh	WBPA-LP	AP_N PA	50.0 230.5	76.0 BDISTVL20090122ABF	40 29 39.0 80 01 13.0	3.000 242	2.9 491	30.1 Venture Technologies Group	33.0R	43.0M		
06 D Pittsburgh	WBPA-LD	AP_D_N PA	50.0 230.5	76.0 BMPDVL20110325ACT	40 29 39.0 80 01 13.0	0.300 242	2.9 491	29.2 Venture Technologies Group	32.1R	43.8M		
06 D Pittsburgh	WBPA-LD	CPM_D_N PA	50.0 230.5	76.0 BMPDVL20090921ADB	40 29 39.0 80 01 13.0	0.300 242	2.9 491	29.2 Venture Technologies Group	32.1R	43.8M		
06 D 1421321 Pittsburgh	1421321	AP_D_N PA	50.0 230.5	76.0 BDCCDVL20110328ABB	40 29 39.0 80 01 13.0	0.300 242	2.9 490	29.1 Venture Technologies Group	32.0R	43.9M		
211B1 Clarksburg	WCKU	LIC_CX WV	161.6 341.8	86.4 BLED20090603AGE	39 19 09.0 80 23 31.0	4.000 215	3.2 568	36.3 Educational Media Foundati	79.2	49.9		
209B Kent	WKSU-FM	LIC_CX OH	325.9 145.3	138.2 BLED20110210ACA	41 04 58.0 81 38 02.0	12.000 277	75.0 596	51.0 Kent State University	57.4	79.1		
209D Fairmont	W209AX	LIC_CN WV	141.0 321.4	75.6 BLFT19970703TA	39 31 38.0 80 09 16.0	0.006 139	8.3 500	5.9 Bible Broadcasting Network	61.1	61.0		
209A Star City	WL0L-FM	LIC_DCX WV	125.4 305.8	74.1 BLED20110304AAY	39 40 09.3 80 00 11.0	0.080 56	4.9 412	3.4 Light Of Life Community, I	63.4	62.5		
207D New Philadelphia	W207CC	LIC_C_ OH	306.3 125.8	80.5 BLFT20100914AHE	40 28 59.0 81 28 34.0	0.027 67	10.6 377	7.5 Bible Broadcasting Network	64.8	65.9		
205B Buckhannon	WVPW	LIC_CX WV	173.7 353.8	114.4 BLED20031212ABB	39 02 04.0 80 33 47.0	14.000 259	5.1 609	48.4 West Virginia Educational	104.4	65.7		
209B Johnstown	WQEJ	LIC_DCX PA	76.0 257.2	150.7 BLED20031030ADX	40 22 17.0 78 58 56.0	8.400 361	77.8 886	51.6 Wqed Multimedia	67.9	92.0		
208D Coshocton	W208AT	LIC_C_ OH	284.0 103.2	100.7 BLFT20000407ADD	40 16 13.0 81 51 36.0	0.250 -17	23.8 262	7.1 Ohio State University	70.1	70.9		

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference zone= , Co to 3rd adjacent.  
 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

**Figure 2**

**RBN**

**W204BE**

BLFT20000911AES  
 Latitude: 40-03-26 N  
 Longitude: 080-42-31 W  
 ERP: 0.01 kW  
 Channel: 208  
 Frequency: 89.5 MHz  
 AMSL Height: 418.0 m  
 Elevation: 363.0 m  
 HAAT: 98.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

■ W204BE

■ WVNP-FM1

**Data: 7/21/11**

**Proposed W204BE on CH 208 vs WVNP-FM1  
 60 dbu Contour Study**

**WVNP-FM1 F(50,50) 60dbu Contour**

**Proposed W204BE on CH 208  
 F(50,50) 60 dbu Contour**

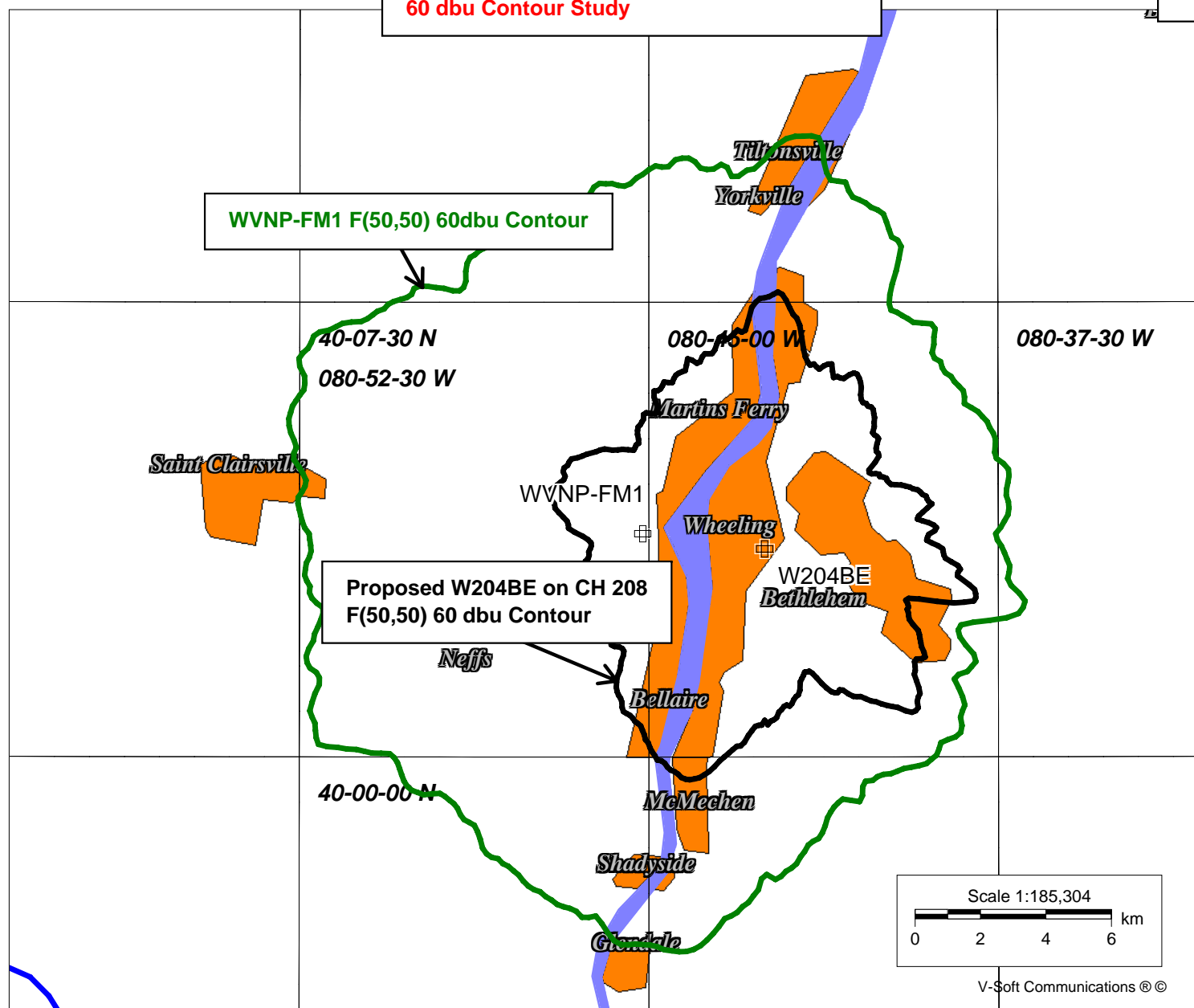


Figure 3

RBN

Proposed W204BE on CH 208 vs WVNP  
60 dbu Contour Study

**W204BE**

BLFT20000911AES  
Latitude: 40-03-26 N  
Longitude: 080-42-31 W  
ERP: 0.01 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 418.0 m  
Elevation: 363.0 m  
HAAT: 98.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

■ W204BE  
■ WVNP

Data: 7/21/11

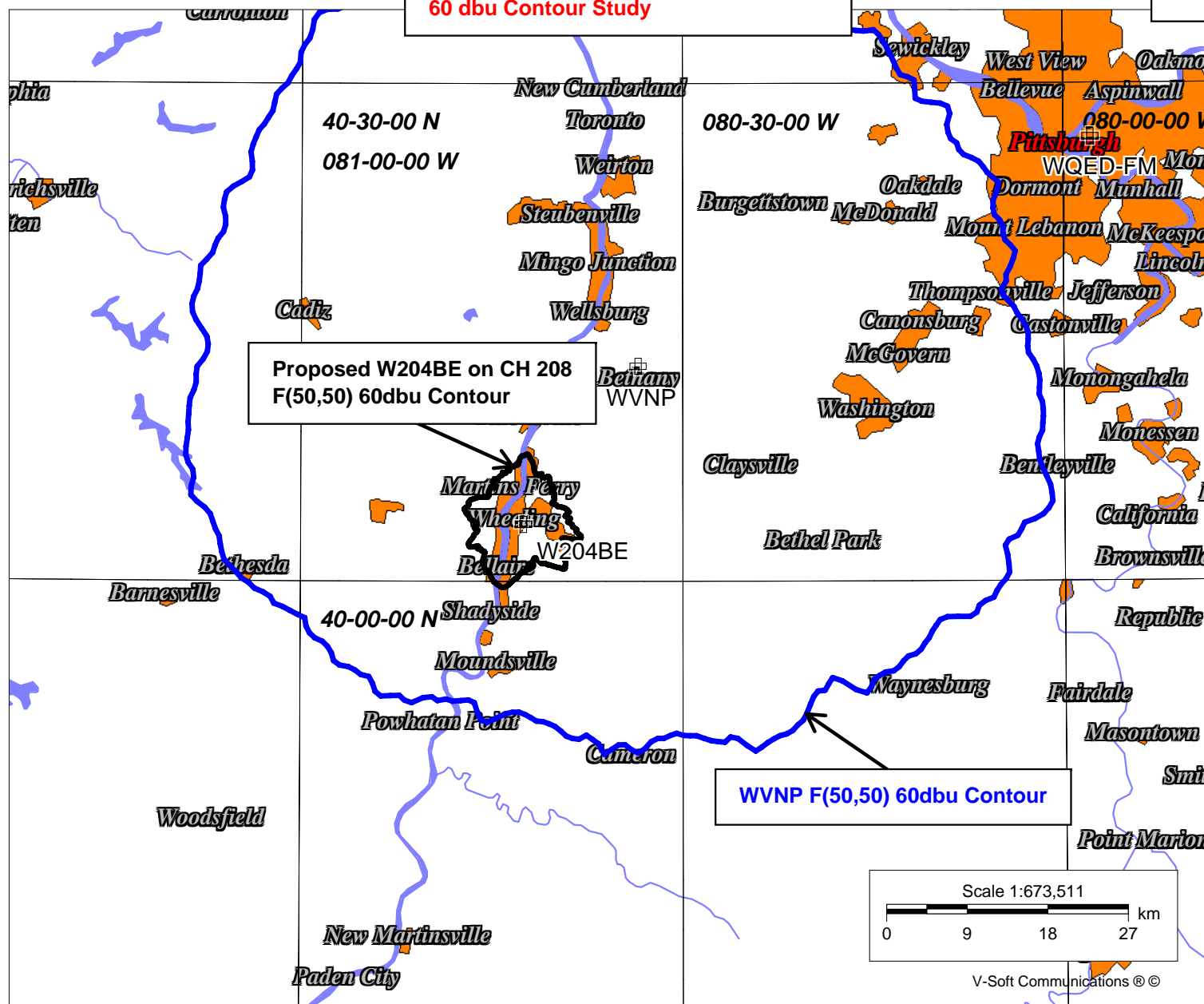


Figure 4

RBN

Proposed W204BE on CH 208  
F(50,10) 122dbu Population Study

**W204BE**  
BLFT20000911AES  
Latitude: 40-03-26 N  
Longitude: 080-42-31 W  
ERP: 0.01 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 418.0 m  
Elevation: 363.0 m  
HAAT: 98.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

☒ W204BE

Data: 7/21/11

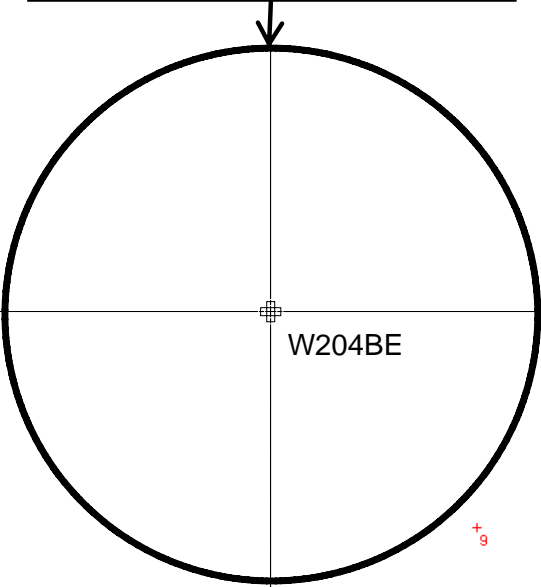
**40-03-27 N**  
**080-42-33 W**

**080-42-32 W**

**080-42-31 W**

**080-42-30 W**

W204BE F(50,10) 122dbu Contour



**40-03-26 N**

**40-03-25 N**

Chapel Rd

Scale 1:500



**Figure 5**

**RBN**

**Proposed W204BE on CH 208 vs WQED-FM  
Incoming Interference Study**

**W204BE**  
BLFT20000911AES  
Latitude: 40-03-26 N  
Longitude: 080-42-31 W  
ERP: 0.01 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 418.0 m  
Elevation: 363.0 m  
HAAT: 98.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

☒ W204BE  
■ WQED-FM

**Data: 7/21/11**

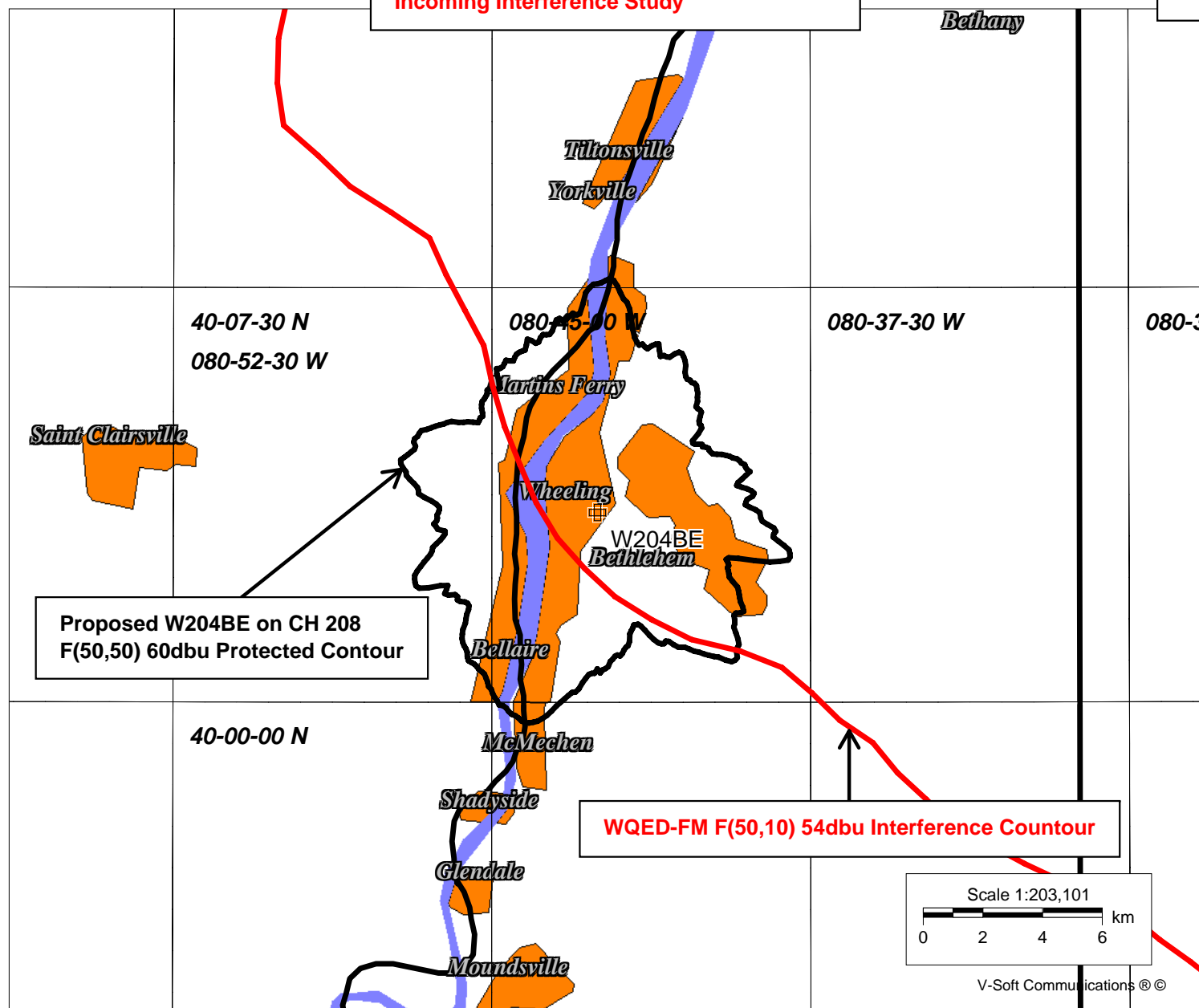
**Proposed W204BE on CH 208  
F(50,50) 60dbu Protected Contour**

**WQED-FM F(50,10) 54dbu Interference Countour**

Scale 1:203,101

0 2 4 6 km

V-Soft Communications ©



## V-Soft Communications Population Report

W204BE (208) Wheeling, WV - BLFT20000911AES

FM Interference Study

Interference considered within reference station's 60.0 dBu contour  
and within the FCC interference contour of each possible interferer

Signal Resolution: 0.5 km

Study Date: 8/9/2011

FM Database Date: 08-08-11

## D/U Ratios Used:

Co: 20.0 dB

First Adj: 6.0 dB

Second Adj: -40.0 dB

Third Adj: -40.0 dB

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 53,850.

## Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WQED-FM (207)	0	419	0.778	2.11

## Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WQED-FM (207)	419	0.778	419	0.778

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Call Letters	City	State	Dist	Bear
WQED-FM (207)	Pittsburgh	PA	76.7	55.5

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## Totals for W204BE (208)

Calculation Area Population:	53,850	(	106.4 sq. km )
Not Affected by Terrain Loss:	53,850	(	106.4 sq. km )
Interfered Population:	419	(	2.1 sq. km )
Interference Free:	53,431	(	104.3 sq. km )

Percent Interference:

0.78

Terrain Blocked Population:	0	(	0.0 sq. km)
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Housing Units

Population

% of County

Ohio

Belmont County

County Pop	0	70,226	
W204BE (208)	0	16,879	
WQED-FM (207)	0	37	0.22
Ix Free	0	16,842	99.78

	Housing Units	Population	% of County
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West Virginia			
Marshall County			
County Pop	0	35,519	
W204BE (208)	0	3,675	
WQED-FM (207)	0	121	3.29
Ix Free	0	3,554	96.71
Ohio County			
County Pop	0	47,427	
W204BE (208)	0	33,296	
WQED-FM (207)	0	261	0.78
Ix Free	0	33,035	99.22

**Figure 7**

**RBN**

**Proposed Vs Licensed 60dbu Contour Study**

**Proposed/Licensed F(50,50) 60dbu Protected Contour**

**W204BE**  
 BLFT20000911AES  
 Latitude: 40-03-26 N  
 Longitude: 080-42-31 W  
 ERP: 0.01 kW  
 Channel: 208  
 Frequency: 89.5 MHz  
 AMSL Height: 418.0 m  
 Elevation: 363.0 m  
 HAAT: 98.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

■ W204BE

**Data: 7/21/11**

