

## Proposed Channel-six TV Interference Study - Licensed Site

### WWPJ Proposed

Latitude: 40-41-33.8 N  
Longitude: 075-18-04.4 W  
ERP V: 0.225 kW  
ERP H: 0.001 kW  
Study Power: 0.006625 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 475.2 m  
Antenna: Directional

### WPVI-TV-D.A

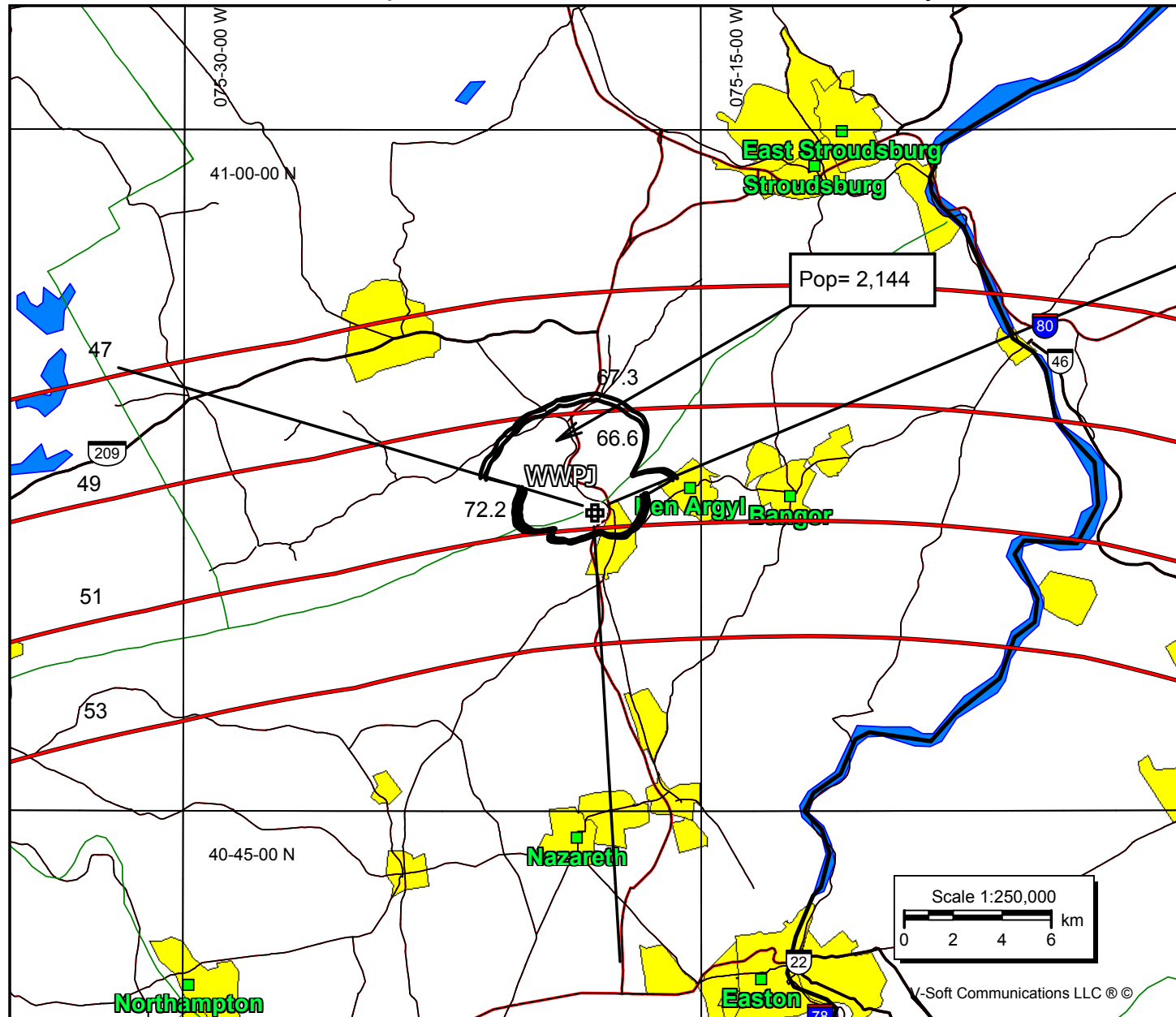
BPCDT20120604AEC  
Latitude: 40-02-33 N  
Longitude: 075-14-33 W  
ERP: 62.90 kW  
Channel: 6  
Frequency: 85.0 MHz  
AMSL Height: 394.7 m



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Telecommunication Consultants



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N. Lat. = 405133.8 W. Lng. = 751804.4  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC - F1 = F(5010)

WVPJ as proposed CH6 Interference contour distances

Azi.	AV EL	HAAT	ERP kw	dBk	Field	66.6-F1	67.3-F1	72.2-F1
000	209.8	263.2	0.0049	-23.08	0.862	4.86	4.60	3.07
010	206.2	266.8	0.0044	-23.56	0.815	4.70	4.44	2.95
020	212.8	260.2	0.0038	-24.21	0.757	4.42	4.19	2.79
030	222.9	250.1	0.0033	-24.79	0.708	4.18	3.96	2.64
040	357.6	115.4	0.0028	-25.57	0.647	2.92	2.79	2.00
050	376.5	96.5	0.0025	-26.00	0.616	2.65	2.53	1.83
060	269.4	203.6	0.0023	-26.46	0.584	3.44	3.26	2.18
070	217.8	255.2	0.0022	-26.58	0.576	3.65	3.44	2.25
080	207.4	265.6	0.0021	-26.87	0.557	3.59	3.39	2.19
090	203.8	269.2	0.0018	-27.55	0.515	3.40	3.20	2.05
100	190.7	282.3	0.0015	-28.11	0.483	3.27	3.06	1.94
110	181.9	291.1	0.0013	-28.78	0.447	3.09	2.90	1.81
120	166.7	306.3	0.0010	-29.99	0.389	2.80	2.62	1.57
130	157.4	315.6	0.0008	-30.98	0.347	2.56	2.40	1.54
140	153.4	319.6	0.0005	-32.63	0.287	2.19	2.04	1.27
150	168.7	304.3	0.0004	-33.79	0.251	1.93	1.79	1.11
160	152.7	320.3	0.0003	-35.77	0.200	1.54	1.56	0.89
170	160.1	312.9	0.0002	-36.12	0.192	1.61	1.50	0.85
180	171.9	301.1	0.0003	-35.68	0.202	1.56	1.57	0.90
190	179.9	293.1	0.0003	-35.02	0.218	1.68	1.55	0.97
200	189.8	283.2	0.0004	-33.83	0.250	1.92	1.78	1.11
210	204.6	268.4	0.0006	-32.54	0.290	2.18	2.03	1.29
220	221.6	251.4	0.0009	-30.49	0.367	2.62	2.46	1.61
230	245.3	227.7	0.0014	-28.50	0.462	3.04	2.88	1.83
240	271.0	202.0	0.0022	-26.50	0.581	3.42	3.24	2.16
250	397.2	75.8	0.0035	-24.50	0.732	2.62	2.51	1.88
260	208.7	264.3	0.0056	-22.50	0.921	5.10	4.82	3.24
270	251.5	221.5	0.0066	-21.79	1.000	5.02	4.77	3.31
280	260.0	213.0	0.0066	-21.79	1.000	4.94	4.69	3.26
290	261.4	211.6	0.0066	-21.79	1.000	4.92	4.68	3.25
300	269.2	203.8	0.0066	-21.79	1.000	4.84	4.61	3.21
310	266.5	206.5	0.0066	-21.79	1.000	4.87	4.63	3.22
320	267.3	205.7	0.0066	-21.79	1.000	4.86	4.63	3.22
330	272.4	200.6	0.0064	-21.95	0.981	4.76	4.52	3.14
340	251.7	221.3	0.0057	-22.43	0.929	4.79	4.54	3.14
350	242.4	230.6	0.0053	-22.76	0.894	4.75	4.50	3.09

Ave E1= 229.12 M HAAT= 243.88 M AMSL= 473.0 M

# Comparative Channel-six TV Interference Study - Licensed vs Proposed Site

## WWPJ Licensed

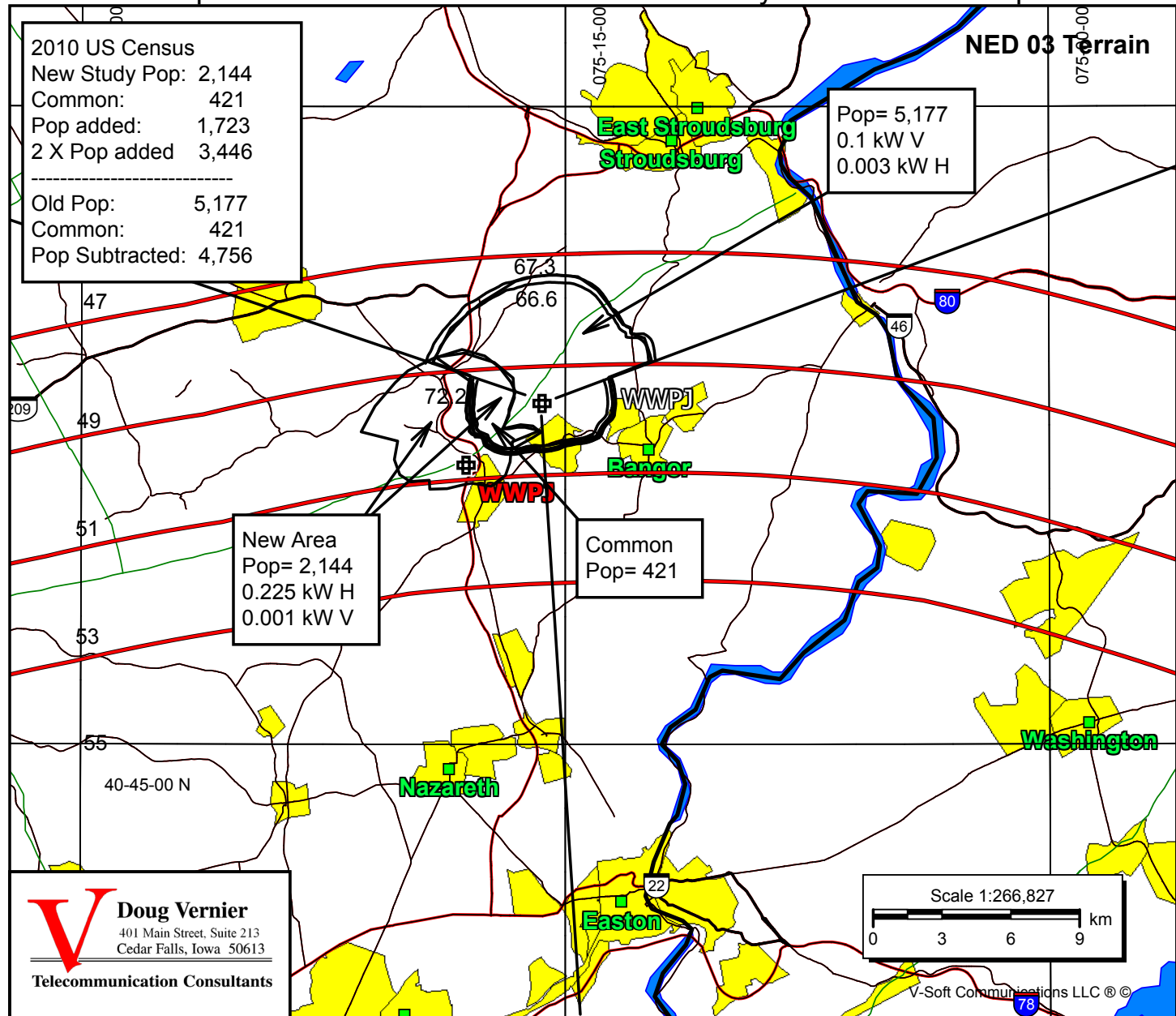
File: BLED-20011113ACH  
 Latitude: 40-53-01 N  
 Longitude: 075-15-43 W  
 ERP: 0.0055 kW  
 Channel: 208  
 Frequency: 89.5 MHz  
 AMSL Height: 557.0 m  
 Horiz. Pattern: Directional

## WWPJ Proposed

Latitude: 40-51-33.8 N  
 Longitude: 75-18-04.4 W  
 ERP: 0.006625 kW  
 Channel: 208  
 Frequency: 89.5 MHz  
 AMSL Height: 473 m  
 Horiz. Pattern: Directional

## WPVI-TV-D.A

BLED20011113ACH  
 Latitude: 40-02-33 N  
 Longitude: 075-14-33 W  
 ERP: 62.90 kW  
 Channel: 6  
 Frequency: 85.0 MHz  
 AMSL Height: 394.7 m  
 Elevation: 74.0 m  
 Horiz. Pattern: Dir  
 Vert. Pattern: Yes  
 Elec Tilt: 1.0



N. Lat. = 405301.0 W. Lng. = 751543.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC - F1 = F(50-10)

WWPJ, Mercer County Community College, BLED20011113ACH - CH 6 interference

Azi.	AV EL	HAAT	ERP kw	dBk	Field	66.6-F1	67.3-F1	72.2-F1
000	212.8	344.2	0.0055	-22.60	1.000	5.55	5.24	3.39
010	190.4	366.6	0.0055	-22.60	1.000	5.65	5.34	3.45
020	189.3	367.7	0.0055	-22.60	1.000	5.65	5.34	3.45
030	242.9	314.1	0.0055	-22.60	1.000	5.40	5.09	3.31
040	284.3	272.7	0.0055	-22.60	1.000	5.12	4.84	3.22
050	296.1	260.9	0.0055	-22.60	1.000	5.03	4.76	3.20
060	221.3	335.7	0.0055	-22.60	1.000	5.51	5.20	3.37
070	185.8	371.2	0.0045	-23.51	0.900	5.26	4.96	3.17
080	183.2	373.8	0.0045	-23.51	0.900	5.27	4.97	3.18
090	184.6	372.4	0.0045	-23.51	0.900	5.27	4.96	3.17
100	193.3	363.7	0.0045	-23.51	0.900	5.23	4.93	3.15
110	184.1	372.9	0.0035	-24.53	0.800	4.83	4.54	2.88
120	174.7	382.3	0.0035	-24.53	0.800	4.86	4.57	2.89
130	166.0	391.0	0.0027	-25.69	0.700	4.42	4.15	2.59
140	155.4	401.6	0.0020	-27.03	0.600	3.94	3.69	2.27
150	138.3	418.7	0.0017	-27.79	0.550	3.72	3.46	2.09
160	161.7	395.3	0.0017	-27.79	0.550	3.66	3.42	2.08
170	186.0	371.0	0.0017	-27.79	0.550	3.60	3.37	2.07
180	166.0	391.0	0.0017	-27.79	0.550	3.65	3.41	2.08
190	180.0	377.0	0.0017	-27.79	0.550	3.61	3.38	2.07
200	199.2	357.8	0.0020	-27.03	0.600	3.82	3.58	2.23
210	210.3	346.7	0.0027	-25.69	0.700	4.26	4.00	2.53
220	226.1	330.9	0.0035	-24.53	0.800	4.65	4.37	2.80
230	264.5	292.5	0.0045	-23.51	0.900	4.89	4.60	2.99
240	358.6	198.4	0.0055	-22.60	1.000	4.52	4.31	2.97
250	221.9	335.1	0.0055	-22.60	1.000	5.50	5.20	3.37
260	239.9	317.1	0.0055	-22.60	1.000	5.41	5.11	3.32
270	263.0	294.0	0.0055	-22.60	1.000	5.28	4.98	3.26
280	268.9	288.1	0.0055	-22.60	1.000	5.24	4.95	3.25
290	247.0	310.0	0.0055	-22.60	1.000	5.38	5.07	3.30
300	244.8	312.2	0.0055	-22.60	1.000	5.39	5.08	3.31
310	255.4	301.6	0.0055	-22.60	1.000	5.33	5.03	3.28
320	240.7	316.3	0.0055	-22.60	1.000	5.41	5.10	3.32
330	249.3	307.7	0.0055	-22.60	1.000	5.36	5.06	3.30
340	236.1	320.9	0.0055	-22.60	1.000	5.43	5.13	3.33
350	226.6	330.4	0.0055	-22.60	1.000	5.48	5.17	3.35

Ave El= 218.02 M HAAT= 338.98 M AMSL= 557 M