

# Channel-Six TV Protection Study

WRGB CP 06 1C Dom 4.640 kW 396 M HAAT THN  
Schenectady NY 653.1 M COR AMSL  
Lat= 42 37 31.0, Lng= 74 00 38.0  
Freedom Broadcasting Of New BPCDT20080307AAK  
Fac ID# 73942  
Dist.=136.32 km, Azi=212.9°, Rev Azi=32.2°

Direct line HAAT Grade B, 47 dBu= 88.8 km & Grade A= 39.84 km

Distance from reference to Grade B = 47.52 km

Cutoff Dist from Full Service or Class CA= 235

Maximum Co-located power= 5 kW


WRGB Signal Contour at Reference location = 29.9 dBu

CH. 204, U/D ratio = 15.3 dB, Maximum FM signal = 62.3 dBu , 6 dB credit added

## TV/FM D to U values

47.0	62.3	55.0	66.9	63.0	71.7	71.0	77.5	79.0	84.0	87.0	90.7
48.0	62.8	56.0	67.5	64.0	72.3	72.0	78.2	80.0	84.8	88.0	91.6
49.0	63.4	57.0	68.1	65.0	73.0	73.0	79.0	81.0	85.7	89.0	92.4
50.0	63.9	58.0	68.7	66.0	73.7	74.0	79.8	82.0	86.5	90.0	93.3
51.0	64.5	59.0	69.3	67.0	74.5	75.0	80.7	83.0	87.4	91.0	93.3
52.0	65.1	60.0	69.8	68.0	75.2	76.0	81.5	84.0	88.2	92.0	93.3
53.0	65.7	61.0	70.4	69.0	76.0	77.0	82.4	85.0	89.1	93.0	93.3
54.0	66.3	62.0	71.0	70.0	76.7	78.0	83.2	86.0	89.9	94.0	93.3

Scale 1:1,500,000



0 20 40 60 km

# Proposed WRVT (4.8 kW) Channel 6 TV Protection - Close Up

## WRVT.C

BPED20070808ADL

Latitude: 43-39-31 N

Longitude: 073-06-25 W

Study ERP: 4.12 kW

4 kW H + 4.8 kW V/40

Channel: 204

Frequency: 88.7 MHz

AMSL Height: 663.0 m

Elevation: 602.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

## WRGB-D.C

BPCDT20080307AAK

Latitude: 42-37-31 N

Longitude: 074-00-38 W

ERP: 4.64 kW

Channel: 06

Frequency: 85.0 MHz

AMSL Height: 653.1 m

Elevation: 542.8 m

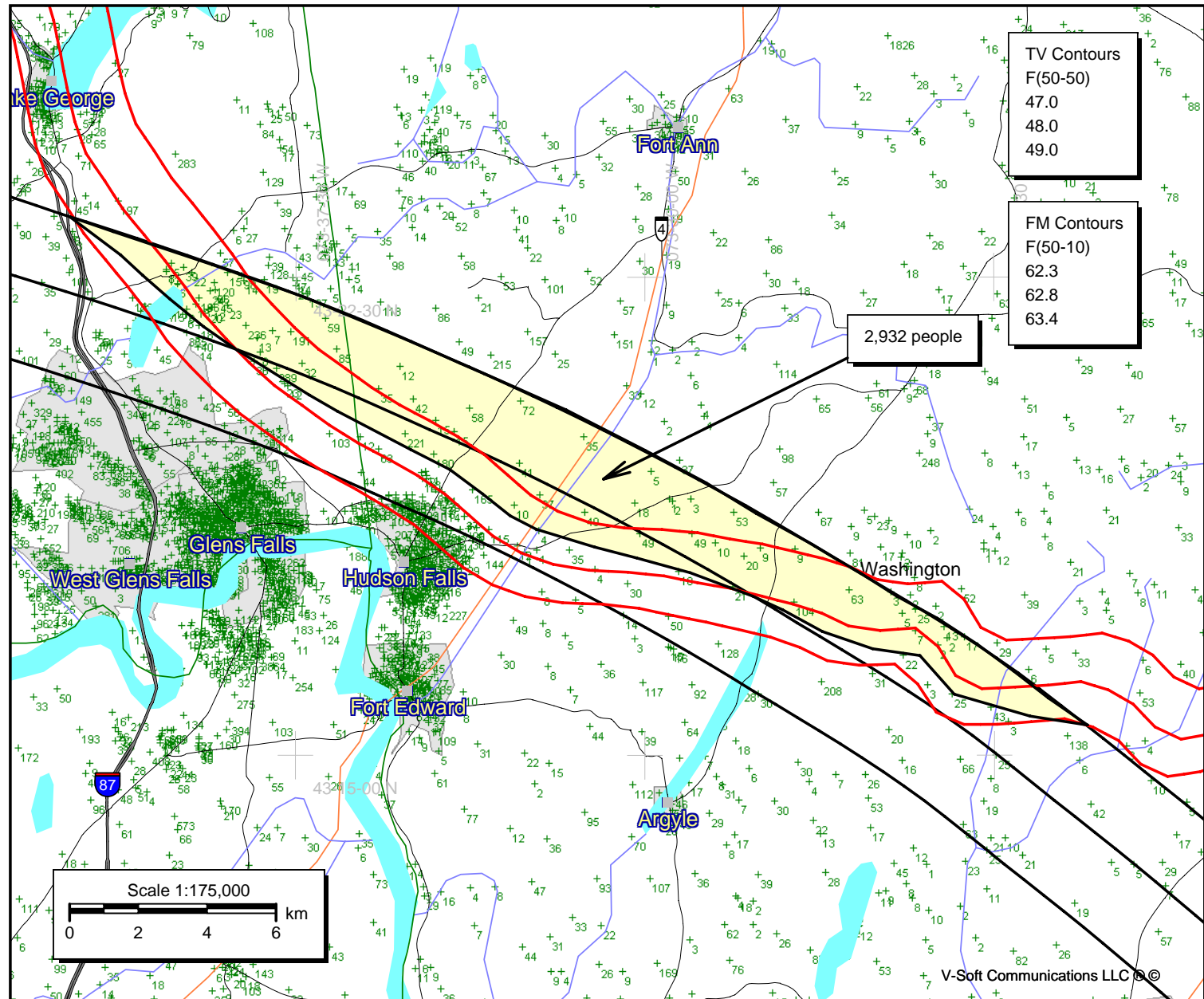
Horiz. Pattern: Omni

Vert. Pattern: Yes

Elec Tilt: 0.0

10/30/2009

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N. Lat. = 423731.0 W. Lng. = 740038.0

HAAT and Distance to Contour,

V-Soft 3.2-16.1 km, 130 pts Method - USGS 03 SEC

WRGB-D, BPCDT20080307AAK - Distance to Protected Contours

Azi.	AV EL	HAAT	ERP kW	dBk	Field	47-F5	48-F5	49-F5
000	125.9	527.1	4.6400	6.67	1.000	87.56	85.25	82.90
010	102.4	550.6	4.6400	6.67	1.000	88.89	86.54	84.19
020	104.2	548.8	4.6400	6.67	1.000	88.79	86.45	84.09
030	102.8	550.2	4.6400	6.67	1.000	88.87	86.52	84.17
040	99.3	553.7	4.6400	6.67	1.000	89.05	86.70	84.35
050	100.2	552.8	4.6400	6.67	1.000	89.00	86.66	84.30
060	93.0	560.0	4.6400	6.67	1.000	89.36	87.01	84.66
070	86.6	566.4	4.6400	6.67	1.000	89.66	87.31	84.97
080	85.7	567.3	4.6400	6.67	1.000	89.70	87.36	85.01
090	90.4	562.6	4.6400	6.67	1.000	89.48	87.14	84.79

AMSL= 653 M

N. Lat. = 433931.0 W. Lng. = 730625.0

HAAT and Distance to Contour,

V-Soft 3-16 km, 131 pts Method - USGS 03 SEC

WRVT (New) - Distance to Interference Contours for TV 6 Protection

Azi.	AV EL	HAAT	ERP kW	dBk	Field	62.3-F1	62.8-F1	63.4-F1
200	266.8	396.2	4.1200	6.15	1.000	48.96	47.64	46.09
210	261.7	401.3	4.1200	6.15	1.000	49.31	47.99	46.43
220	199.1	463.9	4.1200	6.15	1.000	53.36	52.03	50.43
230	161.8	501.2	4.1200	6.15	1.000	55.89	54.51	52.86
240	148.4	514.6	4.1200	6.15	1.000	56.83	55.43	53.76

AMSL= 663.0 M