

250-Mile Window Application

Minor Mod of Application

BMPFT- 20160129AEK

Facility ID No: 140439

This exhibit is for minor modification of translator permit for W293CW Facility ID No. 140439, BMPFT- 20160129AEK, which specifies changes of location of approximately 133 miles, to channel 269, and of antenna location, elevation, type and model to become fill in for AM station WHEN, Facility ID No.: 7080, Syracuse, New York.

Antenna Location

The proposed antenna is to be mounted on an existing communications rooftop, same as W42EB-D, utilizing the location of former booster station WSYR-FM2 at 76 meters above ground. A directional antenna is proposed, the pattern is given in **Figure 0**. Below as **Figure 1** is an overlap and spacing study from which it can be determined that this proposal is within the protected contour of **second** adjacent channel full-power station WZUN, and translator station W267AL.

73.1204 Compliance

We will demonstrate that a lack of population and/or other factors allow this proposal to be compliant with 74.1204. The process commonly called “Living Way”, allows for the use of D/U Analysis, also known as “signal strength ratio methodology” to be utilized to demonstrate compliance. In this instant case the facility to be protected is on a second or third adjacent channel and is to be afforded protection from signals 40 dB stronger than the protected facility presents near the proposed translator antenna location.

Concerning WZUN; In **Figure 2** a map showing that the predicted 74.2 dBu signal contour of the protected station falls 500 meters beyond the proposed translator antenna location is given. This proposal can only cause predicted interference to the protected facility by having a signal exceeding 114.2 dBu ($74.2 + 40$) in a habitable/populated area. Utilizing the line of sight equation considering the proposed antenna vertical pattern as shown in **Figure 3**, it has been determined that a 114.2 dBu signal developed by 50 watts, as proposed, will not reach habitable areas. With examination of the image in **Figure 4** it can be determined that no habitable space extends into the confines of the interference signal level contour area.

Concerning W267AL; In **Figure 2** a map showing that the predicted 82.2 dBu signal contour of the protected station falls 500 meters beyond the proposed translator antenna location is given. As this is a signal of greater value than that of WZUN, protection of the stronger W267AL signal is assured by the protection of the weaker WZUN signal.

Thus the provisions of the rules section concerning prohibited overlap will not apply as it has been demonstrated that no actual interference will occur due to a lack of population and other factors as applied in this instant proposal.

Fill-in and Minor Change Status

This proposal is to serve as a fill-in translator for station WHEN, Facility ID No.: 7080, Syracuse, New York. The map of **Figure 5** demonstrates that the proposed 60 dBu contour is contained within the 2 mV/M signal and a 25 mile radius of the WHEN facility. It can also be seen that the proposed and permitted facilities are within the allowed 250 mile distance.

RF Fields Statement

Due to the complexity of the surrounding RF environment, applicant will take power density measurements prior to filing of an application for license, demonstrating compliance with 73 CFR 1.1306.

Figure 0. Antenna Pattern

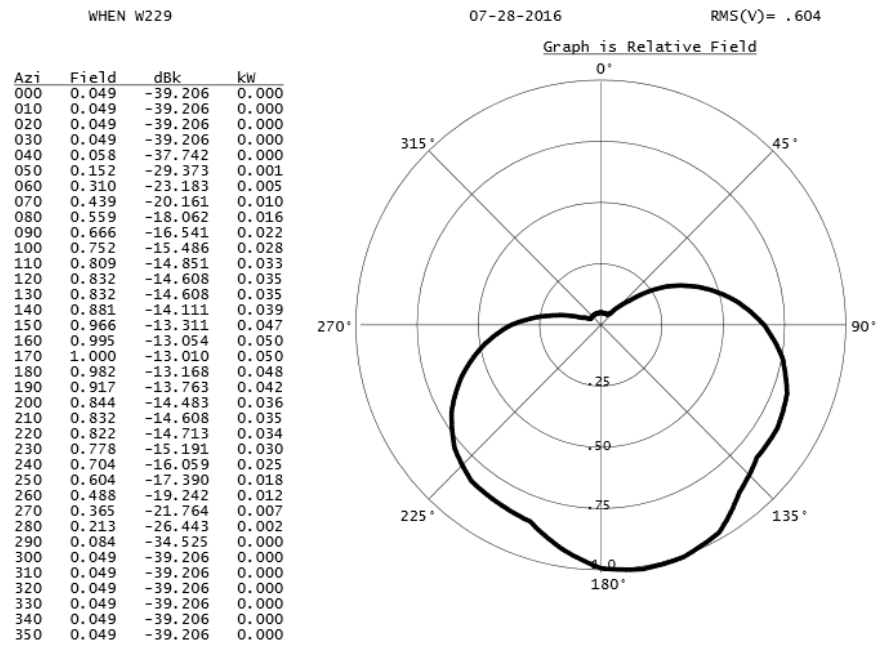


Figure 1. Overlap and Spacing Study

Clear Channel Broadcasting Licenses, Inc.												
REFERENCE	CH#	2690	-	101.7 MHz, Pwr= 0.05 kw DA, HAAT= 0.0 M, Average Protected F (50-50)= 4.71 km	COR= 196 M	DISPLAY DATES						
43 03 01.0 N.						DATA 07-28-16						
76 09 02.0 W.				Standard Directional		SEARCH 07-28-16						
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(Kw)	INT (Km)	PRO (km)	*INP	*OUT*	
CITY		STATE		←	FILE #	LNG	HAAT (M)	COR (M)	LICENSEE	(Overlap	in km)	
269A	WGKVC	LIC	ANT	13.0	63.58	43 56 28.0	5.000	95.7	35.9	-33.7*	22.5	
Pulaski	NY	CX	193.1	BLMLED20070319ACF		75 58 23.0	109	383	Educational Media Foundati			
271A	WZUN	LIC	ANT	297.8	12.15	43 06 04.0	6.000	2.8	28.4	7.8	-16.3*	
Phoenix	NY	CX	117.7	BLHI19990819KC		76 16 58.0	81	234	Galaxy Syracuse Licensee L			
269A	WFLK	LIC	ANT	253.4	73.11	42 51 34.0	5.400	83.4	26.4	-13.8*	35.3	
Geneva	NY	CN	72.8	BLMLH19960118KB		77 00 29.0	38	239	Rsk Communications, Inc.			
Proposed to Canada as B1 on 901109-Accepted by Canada 901226												
267D	W267AL	LIC	ANT	304.9	1.56	43 03 30.0	0.108	0.7	5.7	-0.7	-4.2*	
Syracuse	NY	CX	124.9	BMLFT20101122AJU		76 09 59.0	64	239	Educational Media Foundati			
268A	WXHC	LIC	ANT	185.5	40.58	42 41 12.0	1.300	34.1	22.8	1.9	11.2	
Homer	NY	CX	5.5	BMLH20140528AHC		76 11 54.0	151	596	Eves Broadcasting, Inc.			
268D	W268AE	LIC	ANT	87.3	39.34	43 03 57.0	0.075	14.1	10.1	20.8	23.0	
wampsville	NY	CX	267.6	BLFT119991001ACE		75 40 05.0	50	277	Cram Communications, Llc			
269A	WLTB	LIC	ANT	171.2	111.72	42 03 22.0	0.580	83.0	29.5	24.0	67.3	
Johnson City	NY	CX	351.4	BLH20070515AJQ		75 56 39.0	312	709	Gm Broadcasting, Inc.			
266D	W266BE	LIC	ANT	248.6	36.14	42 55 53.0	0.027	0.4	4.0	32.1	31.8	
Auburn	NY	CX	68.4	BLFT20140903AHV		76 33 47.0	30	248	Calvary Chapel of The Fing			
270B	WJIV	LIC	ANT	103.1	122.24	42 47 36.0	11.500	70.7	60.6	47.4	53.3	
Cherry Valley	NY	NCX	284.0	BMLH20040901ABU		74 41 41.0	312	711	Christian Broadcasting Sys			
267A	WBRV-FM	LIC	ANT	55.5	78.78	43 26 52.0	4.700	2.6	26.9	72.7	51.8	
Boonville	NY	CX	236.1	BLH2010100324AAT		75 20 50.0	114	502	The Flack Broadcasting Gro			
269D	W269AW	LIC	ANT	201.2	75.59	42 24 56.0	0.009	8.9	2.8	62.4	59.0	
Ithaca	NY	DHN	20.9	BLFT19870213TC		76 29 00.0	-49	306	Friends Of Wmhr - Ithaca			
TRANSLATOR FOR Wmhr, SYRACUSE, NY												
267B	WRMM-FM	LIC	ANT	276.7	124.64	43 10 13.0	27.000	5.9	65.2	115.9	59.2	
Rochester	NY	CX	95.6	BMLH20060130ASF		77 40 23.0	195	338	Stevens Media Group - Roc			
266D	W266CL	CP	ANT	172.9	69.78	42 25 37.0	0.013	0.3	3.4	64.8	65.9	
Marathon	NY	CX	352.9	BNPFT20130829ABN		76 02 41.0	50	472	State University of New Yo			
271D	W271CD	LIC	ANT	199.7	73.25	42 25 45.0	0.010	0.2	3.5	68.7	69.3	
East Ithaca	NY	DV	19.5	BLFT20150821AAD		76 27 04.0		394	Calvary Chapel of The Fing			
267D	W267AT	LIC	ANT	131.6	78.86	42 34 40.0	0.008	0.2	8.8	74.4	69.7	
Sherburne	NY	CX	312.1	BLFT20070802AAA		75 25 51.0	228	670	Blount Communications, Inc			
266D	W266CI	CP	ANT	202.5	75.36	42 25 24.0	0.045	0.4	4.3	70.6	70.6	
Ithaca	NY	CX	22.3	BNPFT20130814ABX		76 30 08.0	-80	275	Edward L Farmer			
272A	WVOR	LIC	ANT	258.1	97.88	42 51 47.0	3.400	2.5	26.7	92.0	70.9	
Canandaigua	NY	CN	77.3	BLHI19910726KC		77 19 22.0	86	358	Citicasters Licenses, Inc.			
Proposed to Canada as B1 on 910211-Specially negotiated short spaced allot- ment Ltd to 3.4kw Erp & 100m Ha												
at or equivalent towards Belleville ON-Accep- ted by Canada 910415												
270D	W270BY	LIC	ANT	220.3	87.94	42 26 44.0	0.250	4.4	3.2	79.2	78.7	
Watkins Glen	NY	DC	39.9	BLFT20091125ACW		76 50 38.0	88	444	Fingerlakes Radio Group, I			
267D	W267BQ	LIC	ANT	188.6	90.88	42 14 29.0	0.250	0.9	8.4	85.4	82.1	
Richford	NY	DV	8.5	BLFT20131223AGY		76 19 00.0	107	498	Radigan Broadcasting Group			
270AA	CFRCFM	—	ANT	348.1	134.40	44 14 00.0	6.000	46.3	38.0	86.6	93.2	
Kingston	ON			167.8		76 30 00.0	100	189				
SPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.												
271A	WAVR	LIC	ANT	195.7	113.85	42 03 48.0	4.100	2.3	23.0	107.2	90.4	
Waverly	NY	CN	15.5	BLMLH19990211KC		76 31 28.0	122	500	Wats Broadcasting, Inc.			
From Channel 272A per MM Docket 91-339.												
269D	W269BK	LIC	ANT	209.5	113.92	42 09 24.0	0.099	18.5	5.6	91.1	94.6	
Horseheads	NY	BLT	29.1	BLFT20060905AAX		76 49 54.0	-95	292	Europa Communications, Inc			
266A	WBUG-FM	LIC	ANT	99.3	113.00	42 52 44.0	1.250	1.8	21.1	107.1	91.5	
Fort Plain	NY	CN	280.2	BLHI19910312KD		74 47 07.0	219	584	Roser Communications Netwo			
Class B1 with respect to Canada												

Figure 2. Contour Map

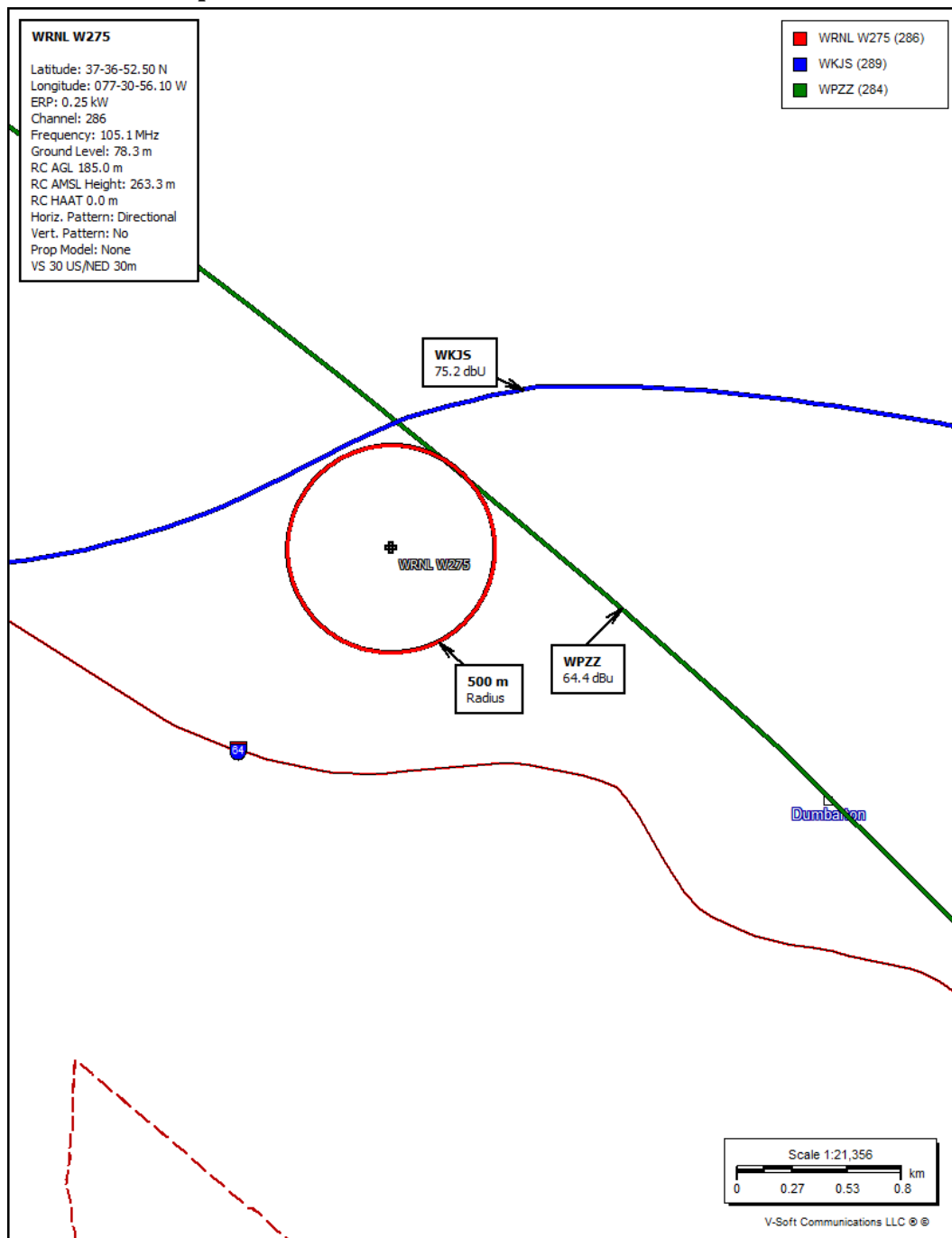


Figure 3. Signal Level at or Near Ground Level

Proposed Antenna: Scala CL-FM V Pol Proposed Power: 0.05 kW Antenna Height AGL: 76 meters Interference Contour: 114.2 dBu f(50:10) Artificial Rcv Antenna Height: 2 meters Distance (Free Space) Equation: $= (10^{\frac{106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]}{20}}) * 1000$ Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters}/1000])) + [\text{ERP in dBk}]$								
Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interf	rom Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.050	-13.01	96.71 m	infinite	---	infinite	---
-5°	0.980	0.048	-13.19	94.78 m	849.05 m	95.16 dBu	872.00 m	94.92 dBu
-10°	0.950	0.045	-13.46	91.88 m	426.15 m	100.87 dBu	437.67 m	100.64 dBu
-15°	0.895	0.040	-13.97	86.56 m	285.91 m	103.82 dBu	293.64 m	103.59 dBu
-20°	0.820	0.034	-14.73	79.30 m	216.36 m	105.48 dBu	222.21 m	105.25 dBu
-25°	0.735	0.027	-15.68	71.08 m	175.10 m	106.37 dBu	179.83 m	106.14 dBu
-30°	0.645	0.021	-16.82	62.38 m	148.00 m	106.70 dBu	152.00 m	106.46 dBu
-35°	0.562	0.016	-18.02	54.35 m	129.02 m	106.69 dBu	132.50 m	106.46 dBu
-40°	0.470	0.011	-19.57	45.46 m	115.12 m	106.13 dBu	118.24 m	105.90 dBu
-45°	0.360	0.006	-21.88	34.82 m	104.65 m	104.64 dBu	107.48 m	104.41 dBu
-50°	0.250	0.003	-25.05	24.18 m	96.60 m	102.17 dBu	99.21 m	101.94 dBu
-55°	0.155	0.001	-29.20	14.99 m	90.34 m	98.60 dBu	92.78 m	98.37 dBu
-60°	0.085	0.000	-34.42	8.22 m	85.45 m	93.86 dBu	87.76 m	93.63 dBu
-65°	0.045	0.000	-39.95	4.35 m	81.65 m	88.73 dBu	83.86 m	88.50 dBu
-70°	0.020	0.000	-46.99	1.93 m	78.75 m	82.01 dBu	80.88 m	81.77 dBu
-75°	0.010	0.000	-53.01	0.97 m	76.61 m	76.22 dBu	78.68 m	75.99 dBu
-80°	0.010	0.000	-53.01	0.97 m	75.14 m	76.39 dBu	77.17 m	76.16 dBu
-85°	0.010	0.000	-53.01	0.97 m	74.28 m	76.49 dBu	76.29 m	76.26 dBu
-90°	0.010	0.000	-53.01	0.97 m	74.00 m	76.53 dBu	76.00 m	76.29 dBu

Figure 4. Image Near Proposed Support Tower

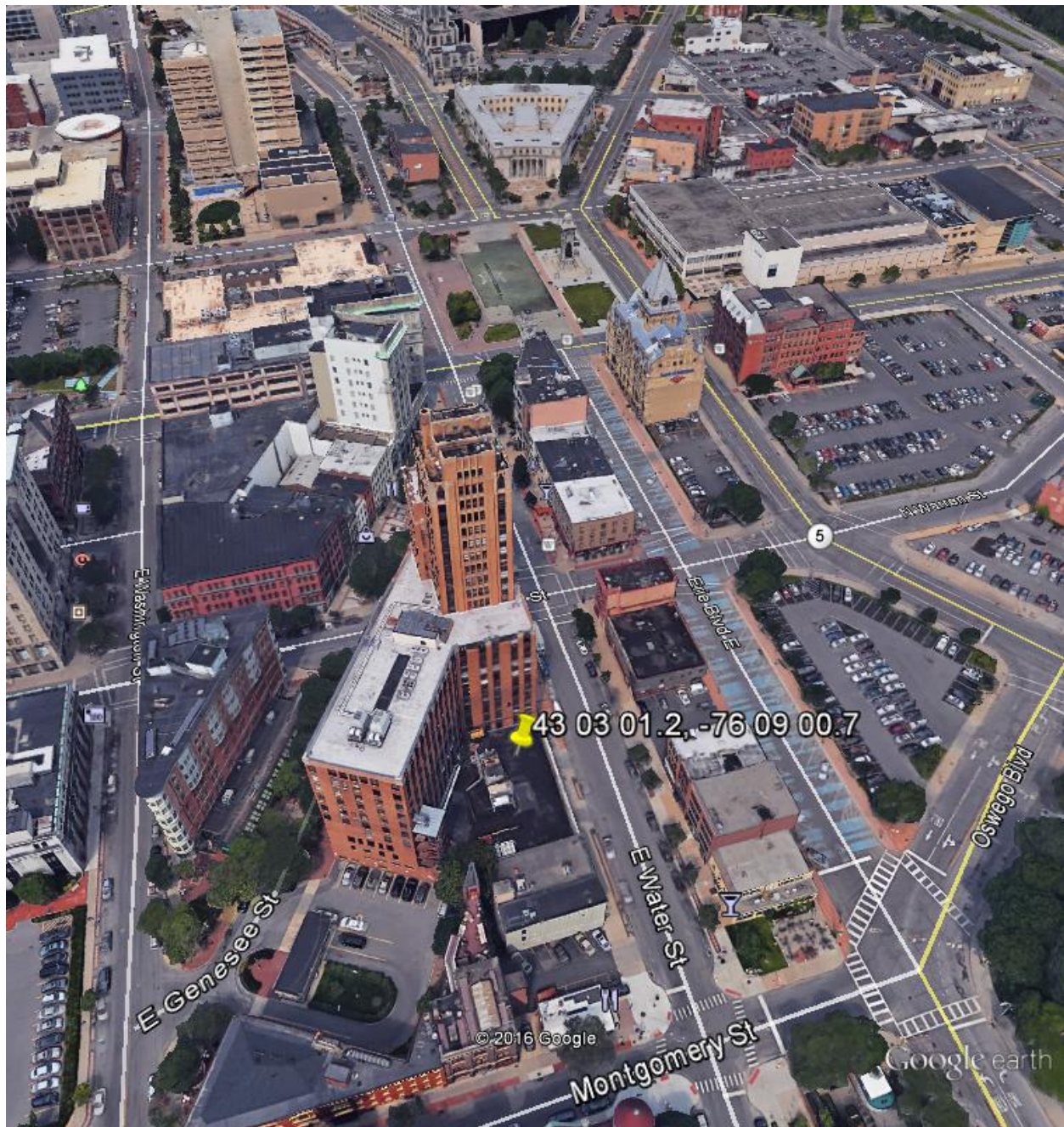


Figure 5. Fill-in and Minor Change Distance Map

