

**MINOR CHANGE/CORRECTION OF**  
**COORDINATES APPLICATION**  
**IW LIMITED LIABILITY COMPANY**  
**WMJC RADIO STATION**  
**CH 232A - 94.3 MHZ - 2.6 KW**  
**SMITHTOWN, NEW YORK**  
**October 2002**

**EXHIBIT A**

**Licensed WMJC Shortages**

As shown on Exhibit A1, WMJC, operating on Channel 232A, at its licensed transmitter site, does not meet the Commission's minimum distance separation requirements to three other stations: WYBC-FM, WJLK-FM and WNYC-FM. Each of these stations was authorized prior to November 16, 1964. Further, the stations have remained shortspaced since that time. As such, each of these shortages is considered a pre-1964 grandfathered shortspace pursuant to §73.213(a) of the rules. Because of the channel relationship with WNYC-FM (second adjacent Class A to Class B), the shortage to WNYC-FM is not considered pursuant to §73.213(a)(4) of the rules.<sup>3</sup>

Based on the correction of coordinates for WMJC, the station is effectively relocated a distance of 0.14 kilometer (459.0 feet) from its licensed site. As shown on Exhibit A2, the distances between WMJC and both WYBC-FM and WJLK-FM are slightly changed. However, when rounded to the nearest kilometer, the amount of change remains the same. Since WMJC has a pre-1964 grandfathered shortage to WYBC-FM and WJLK-FM, any change (or correction, as in this case) requires an evaluation of delivered and received interference between the

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3) The licensee of WNYC-FM has submitted a minor change application to relocate the facility to a site at the Empire State Building, due to the destruction of its licensed site located atop the World Trade Center. The Empire State Building site is slightly closer to WMJC than the former licensed site.

stations, based on the licensed WMJC facility in comparison to the actual WMJC location. As shown in Exhibit A3, the protected contour of the licensed WMJC facility, as well as the proposed/corrected WMJC facility, is overlapped by the interfering contours of both WYBC-FM and WJLK-FM. Further, the interfering contours of both the licensed and proposed/corrected WMJC facilities overlap with the protected contours of WYBC-FM and WJLK-FM.

Exhibit A4 shows the actual depth of interference to the WMJC protected contour from the operating WYBC-FM facility. As summarized on Exhibit A8, 152,921 persons in 336.0 square kilometers receive interference within the licensed WMJC 60 dBu contour. Based on the proposed correction, a total of 152,214 persons in 348.0 square kilometers will receive interference from WYBC-FM. Thus there is a reduction in interference received by 707 persons.<sup>4</sup> Exhibit A5 shows the interference received by WYBC-FM from the present and proposed operations of WMJC. Based on the licensed WMJC facility, 111,848 persons in 483.5 square kilometers receive interference within the WYBC protected contour. Based on the proposed WMJC correction, the number of persons receiving interference from WMJC will be 111,530 persons in 468.0 square kilometers, or a reduction of 318 persons in 15.5 square kilometers. Therefore, this proposal satisfies the requirements of §73.213(a) of the rules, with respect to WYBC-FM.

Exhibit A6 shows the actual depth of interference to the WMJC protected contour from the operating WJLK-FM facility. As summarized on Exhibit A8, 16,563 persons in 24.0 square kilometers within the licensed WMJC 60 dBu contour receive interference. Based on the

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4) As noted on Exhibit A8, while there is an increase in the WMJC area receiving interference from WYBC-FM due to the extension of the 60 dBu contour, there is a reduction of 707 persons receiving interference.

proposed correction, a total of 16,394 persons in 30.0 square kilometers will receive interference. Thus, there is a reduction in interference received of 169 persons.<sup>5</sup> Exhibit A7 shows the interference received by WJLK-FM from the present and proposed operations of WMJC. Based on the licensed WMJC facility, zero persons in 42.0 square kilometers receive interference within the WJLK-FM protected contour. Based on the proposed WMJC correction, the number of persons receiving interference from WMJC will remain at zero and the interference area is contained in 36.0 square kilometers. Thus, there is no change in interference to any persons and a slight reduction of land area in the interference area. Therefore, this proposal satisfies the requirements of §73.213(a) of the rules, with respect to WJLK-FM.

Due to the correction of the WMJC coordinates and height, the 60 dBu contour of WMJC will extend slightly beyond the licensed 60 dBu contour in some azimuths. As a result, some new received interference area is created. While this area is presently not receiving a signal from WMJC, Exhibit A9 shows that the both the licensed and corrected WMJC 60 dBu contours are serviced by the protected contours of six existing stations. While this area also receives service from other stations, they were not considered since the area is believed to be well served.

Based on the foregoing, the proposed correction to the WMJC facilities is in compliance with the Commission's rules regarding the shortages to WYBC-FM, WJLK-FM, and WNYC-FM, pursuant to §73.213(a) and in compliance with §73.207 to all other facilities.

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5) See Footnote 4 *supra*.

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**EXHIBIT A1**

CLEARANCE STUDY FOR WMJC SMITHTOWN, NEW YORK  
 USING WMJC LICENSED SITE AS REFERENCE

REFERENCE		DISPLAY DATES
40 48 07 N	CLASS A	DATA 10-10-02
73 17 06 W	Current rules spacings	SEARCH 10-17-02
----- CHANNEL 232 - 94.3 MHz -----		

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
<b>WMJC</b>	<b>232A</b>	<b>Smithtown</b>	<b>NY</b>	<b>0.0</b>	<b>0.00</b>	<b>115.0</b>	<b>-115.00</b>
<b>LIC CN</b>	<b>40 48 07</b>	<b>73 17 06</b>	<b>3.000 kW</b>	<b>91M</b>	<b>0.0</b>	<b>71.5</b>	
	<b>IW Limited Liability Company</b>			<b>BLH-19780601AA</b>			
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* WYBCFM	232A	New Haven	CT	23.1	66.24	115.0	-48.76
LICDE	41 20 59	72 58 23	3.000 kW	144M	41.2	71.5	
	Yale Broadcasting Co., Inc.			BLH-20010918AAT			
* WJLKFM	232A	Asbury Park	NJ	227.2	93.27	115.0	-21.73
LIC CN	40 13 45	74 05 24	1.300 kW	152M	58.0	71.5	
	Millennium Shore License			BLH-19881201KB			
* WNYCFM	230B	New York	NY	264.5	59.49	69.0	-9.51
APP CX	40 44 54	73 59 10	6.000 kW	415M	37.0	42.9	
	WNYC Radio			BPH-20011120AAW			
* WNYCFM	230B	New York	NY	261.0	62.33	69.0	-6.67
LIC CN	40 42 43	74 00 49	5.400 kW	432M	38.7	42.9	
	WNYC Radio			BLH-19860120KB			
WFME	234B	Newark	NJ	269.3	81.90	69.0	12.90
LIC C	40 47 18	74 15 19	37.200 kW	174M	50.9	42.9	
	Family Stations, Inc.			BMLED-20000519ADP			
WBPM.C	232A	Kingston	NY	334.3	135.11	115.0	20.11
CP CX	41 53 44	73 59 32	2.250 kW	166M	84.0	71.5	
	Concord Media Group, Inc.			BPH-20010209ABL			
WBPM	232A	Kingston	NY	334.3	135.11	115.0	20.11
LIC CN	41 53 44	73 59 32	1.100 kW	169M	84.0	71.5	
	Concord Media Group, Inc.			BLH-19881229KA			
WZMX	229B	Hartford	CT	23.4	92.10	69.0	23.10
LIC CN	41 33 42	72 50 41	17.000 kW	259M	57.2	42.9	
	Infinity Radio Operations Inc.			BLH-19910401KC			
WTHK	233B	Trenton	NJ	243.2	148.82	113.0	35.82
LICDEN	40 11 22	74 50 47	50.000 kW	150M	92.5	70.2	
	Nassau Broadcasting II, L.L.C.			BLH-19910307KA			
WWPRFM	286B	New York	NY	264.5	59.49	15.0	44.49
LIC CN	40 44 54	73 59 10	6.000 kW	415M	37.0	9.3	
	AMfM Radio Licenses, L.L.C.			BLH-19940204KB			

\* Note : These are pre-1964 grandfathered shortspaces. See Exhibit A.

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**EXHIBIT A2**

CLEARANCE STUDY FOR WMJC SMITHTOWN, NEW YORK  
USING ACTUAL/PROPOSED SITE AS REFERENCE

REFERENCE		DISPLAY DATES
40 48 08 N	CLASS A	DATA 10-10-02
73 17 12 W	Current rules spacings	SEARCH 10-17-02
----- CHANNEL 232 - 94.3 MHz -----		

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
<b>WMJC</b>	<b>232A</b>	<b>Smithtown</b>	<b>NY</b>	<b>102.5</b>	<b>0.14</b>	<b>115.0</b>	<b>-114.86</b>
<b>LIC CN</b>	<b>40 48 07</b>	<b>73 17 06</b>	<b>3.000 kW</b>	<b>91M</b>	<b>0.1</b>	<b>71.5</b>	
	<b>IW Limited Liability Company</b>			<b>BLH-19780601AA</b>			
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* WYBCFM	232A	New Haven	CT	23.3	66.27	115.0	-48.73
LICDE	41 20 59	72 58 23	3.000 kW	144M	41.2	71.5	
	Yale Broadcasting Co., Inc.			BLH-20010918AAT			
* WJLKFM	232A	Asbury Park	NJ	227.1	93.19	115.0	-21.81
LIC CN	40 13 45	74 05 24	1.300 kW	152M	57.9	71.5	
	Millennium Shore License			BLH-19881201KB			
* WNYCFM	230B	New York	NY	264.4	59.35	69.0	-9.65
APP CX	40 44 54	73 59 10	6.000 kW	415M	36.9	42.9	
	WNYC Radio			BPH-20011120AAW			
* WNYCFM	230B	New York	NY	260.9	62.20	69.0	-6.80
LIC CN	40 42 43	74 00 49	5.400 kW	432M	38.7	42.9	
	WNYC Radio			BLH-19860120KB			
WFME	234B	Newark	NJ	269.2	81.76	69.0	12.76
LIC C	40 47 18	74 15 19	37.200 kW	174M	50.8	42.9	
	Family Stations, Inc.			BMLED-20000519ADP			
WBPM.C	232A	Kingston	NY	334.4	135.02	115.0	20.02
CP CX	41 53 44	73 59 32	2.250 kW	166M	83.9	71.5	
	Concord Media Group, Inc.			BPH-20010209ABL			
WBPM	232A	Kingston	NY	334.4	135.02	115.0	20.02
LIC CN	41 53 44	73 59 32	1.100 kW	169M	83.9	71.5	
	Concord Media Group, Inc.			BLH-19881229KA			
WZMX	229B	Hartford	CT	23.5	92.13	69.0	23.13
LIC CN	41 33 42	72 50 41	17.000 kW	259M	57.3	42.9	
	Infinity Radio Operations Inc.			BLH-19910401KC			
WTHK	233B	Trenton	NJ	243.2	148.71	113.0	35.71
LICDEN	40 11 22	74 50 47	50.000 kW	150M	92.4	70.2	
	Nassau Broadcasting II, L.L.C.			BLH-19910307KA			
WWPRFM	286B	New York	NY	264.4	59.35	15.0	44.35
LIC CN	40 44 54	73 59 10	6.000 kW	415M	36.9	9.3	
	Amfm Radio Licenses, L.L.C.			BLH-19940204KB			

\* Note : These are pre-1964 grandfathered shortspaces. See Exhibit A.

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**WMJC Licensed**

BLH-19780601.AA  
Latitude: 40-48-07 N  
Longitude: 073-17-06 W  
ERP: 3.00 kW  
Channel: 232A  
Frequency: 94.3 MHz  
AMSL Height: 117.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: FCC

**WMJC Actual Site**

Latitude: 40-48-08 N  
Longitude: 073-17-12 W  
ERP: 2.60 kW  
Channel: 232A  
Frequency: 94.3 MHz  
AMSL Height: 125.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: FCC

**WMJC LICENSED 60 dBu**

**WMJC ACTUAL 60 dBu**

**WYBC-FM 40 dBu**

**WJLK-FM 40 dBu**

**EXHIBIT A3**

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Scale 1:500,000





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EXISTING INTERFERENCE AREA

WMJC ACTUAL 60 dBu

WMJC LICENSED 60 dBu

COMMON INTERFERENCE AREA

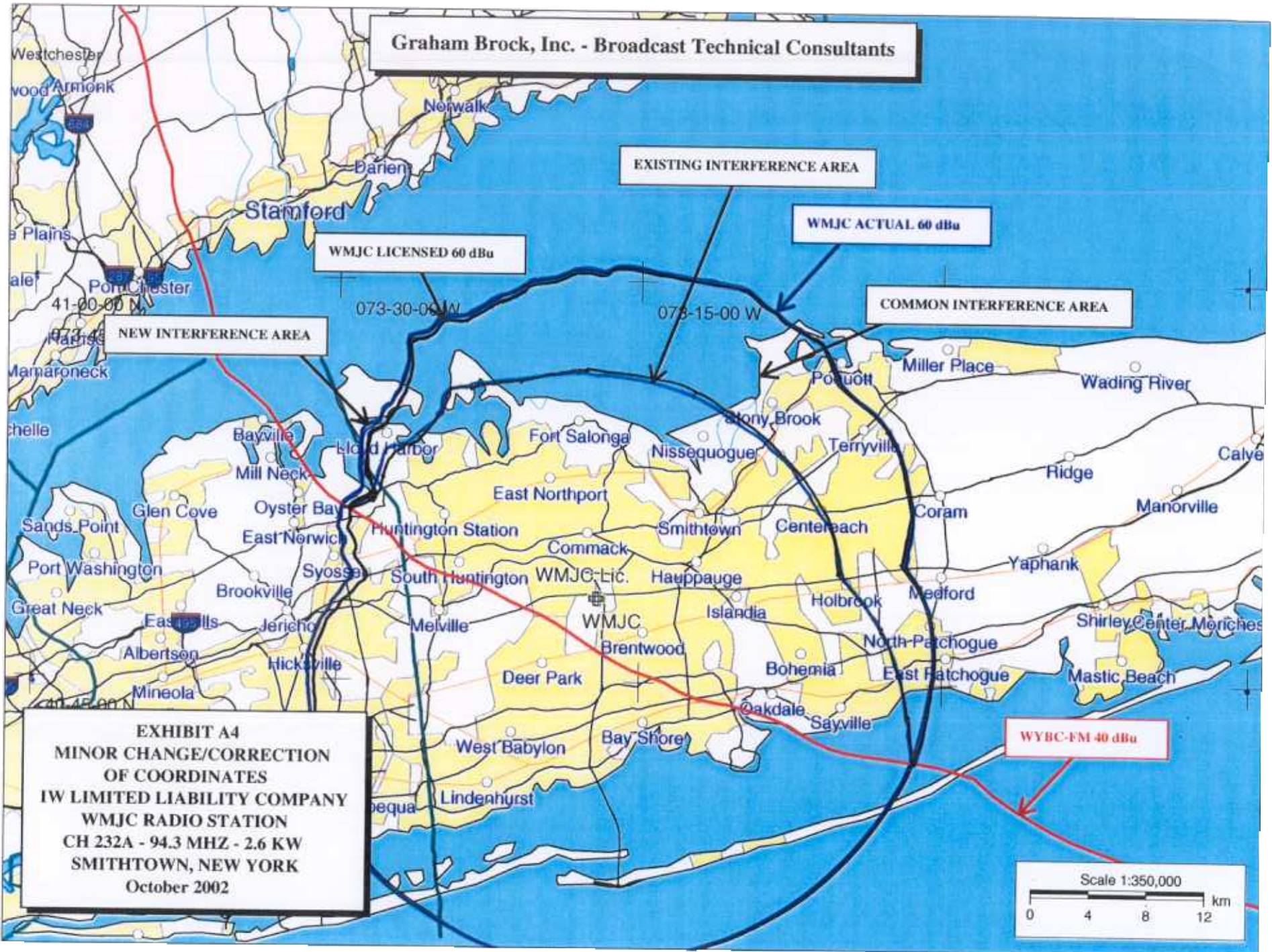
NEW INTERFERENCE AREA

WYBC-FM 40 dBu

Scale 1:350,000

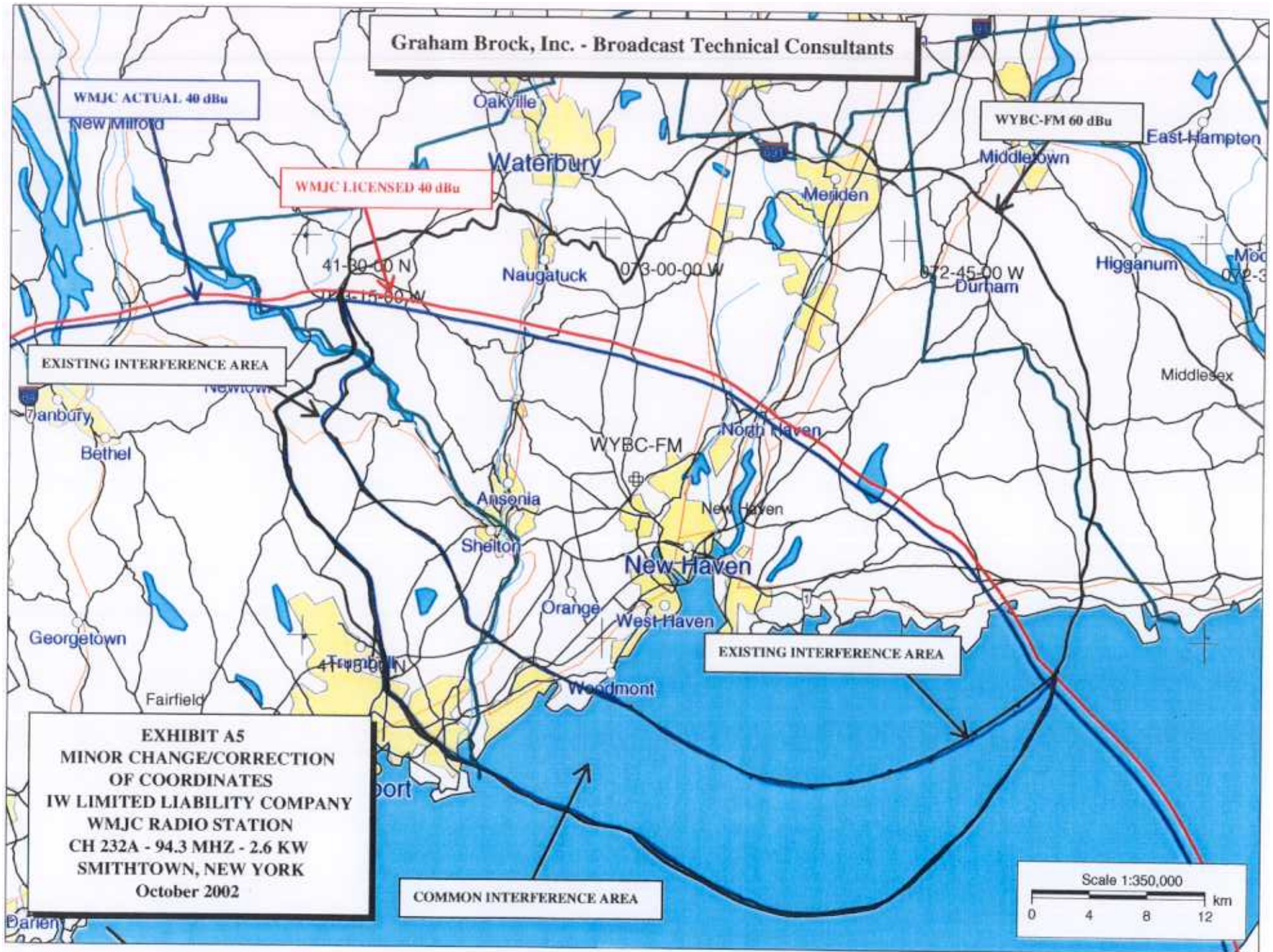


**EXHIBIT A4**  
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**EXHIBIT A5**  
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**EXHIBIT A6**  
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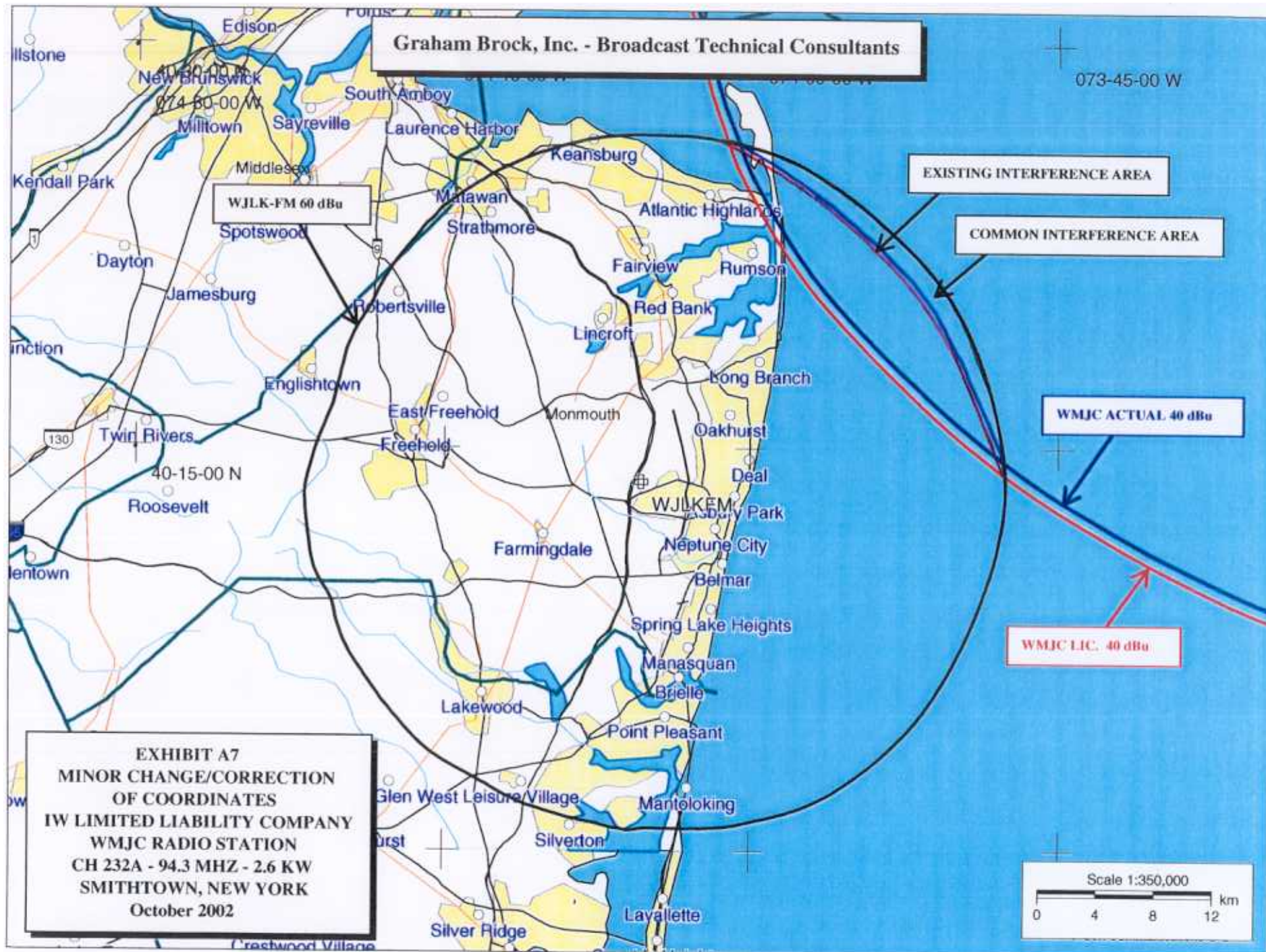


EXHIBIT A7  
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**EXHIBIT A8**

**§73.213 Interference Analysis**

<u>Station</u>	Existing Interference Caused by WMJC		Existing Interference Received by WMJC	
	<u>Area (sq. km)<sup>6</sup></u>	<u>Pop<sup>7</sup></u>	<u>Area (sq. km)</u>	<u>Pop</u>
WYBC-FM	483.5	111,848	336.0	152,921
WJLK-FM	42.0	-0-	24.0	16,563

<u>Station</u>	Proposed Interference Caused by WMJC		Proposed Interference Received by WMJC	
	<u>Area (sq. km)</u>	<u>Pop</u>	<u>Area (sq. km)</u>	<u>Pop</u>
WYBC-FM	468.0	111,530	348.0	152,214
WJLK-FM	36.0	-0-	30.0	16,394

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	<u>Pop</u>	<u>Area (sq. km)</u>
Total Present Received Interference:	169,484	360.0
Total Present Delivered Interference:	111,848	525.5
Total Proposed Received Interference:	168,608	378.0
Total Proposed Delivered Interference:	111,530	504.0
Net Reduction of Total Interference:	1,194	3.5

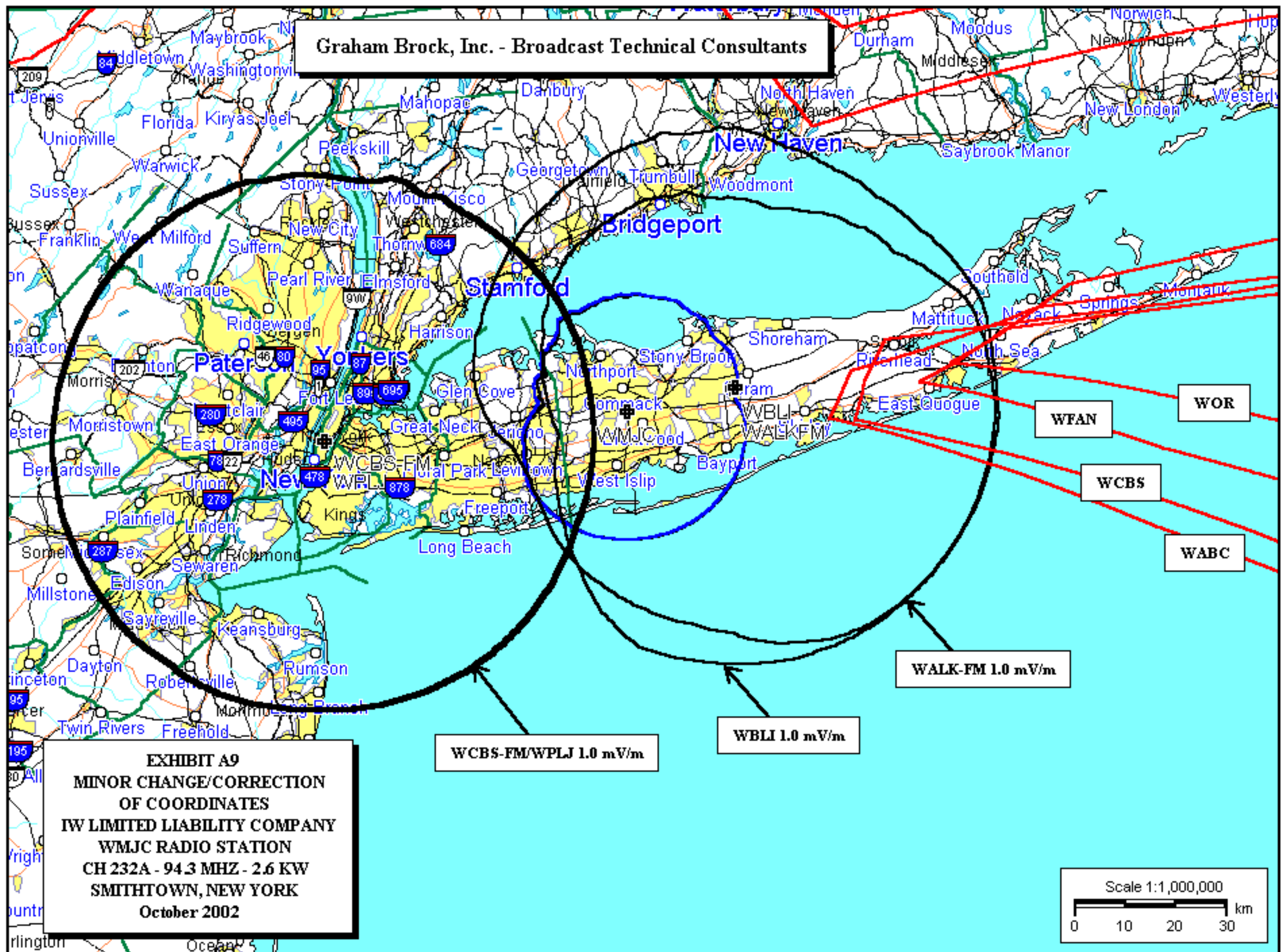
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6) All areas determined by polar planimeter.

7) All population figures from 2000 Census.



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**EXHIBIT A9**  
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