

MINOR CHANGE APPLICATION
DAVIDSON COUNTY BROADCASTING COMPANY
WTHZ (FM) RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

EXHIBIT A

Grandfathered WTHZ Shortages

As shown on Exhibit A1, WTHZ, operating on Channel 231C at its licensed transmitter site, does not meet the Commission's minimum distance separation requirements to four other stations: WRSN, WMEV-FM, WAXS and WWCC. 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 WWCC (second adjacent Class C to Class C1), the shortage to WWCC is not considered pursuant to §73.213(a)(4) of the rules.¹

Based on the proposed relocation of WTHZ, as shown on Exhibit A2, the distances between WTHZ and WRSN, WMEV-FM and WAXS are improved, with the shortage to WWCC completely eliminated.² Since WTHZ has a pre-1964 grandfathered shortage with WRSN, WMEV-FM and WAXS, any change requires an evaluation of delivered and received interference between the stations, based on the licensed WTHZ facility in comparison to the proposed WTHZ facility. Exhibit A3 shows the present interfering contour of the licensed

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- 1) Based on the proposed new WTHZ site, the shortage to WWCC is completely eliminated. The spacing between WTHZ on Channel 231C1 and WWCC on Channel 233C1 would be in compliance with §73.207 of the rules.
- 2) The shortage to WCRS-FM at the new site is addressed under §73.215 (see Exhibit B for details).

WTHZ overlaps with the protected contour of WRSN and depicts the depth of interference caused to WRSN.³ Exhibit A4 is a map depicting the depth of interference to WRSN as a result of the WTHZ relocation. The maps show that as a result of the relocation WRSN will receive less interference from WTHZ. Exhibit A5 shows the present interfering contour of the licensed WTHZ overlaps with the protected contour of WMEV-FM and depicts the depth of interference caused to WMEV-FM. Exhibit A6 is a map depicting the depth of interference to WMEV-FM as a result of the WTHZ relocation. The maps show that as a result of the relocation WMEV-FM will receive less interference from WTHZ. Exhibit A7 shows the present interfering contour of the licensed WTHZ overlaps with the protected contour of WAXS and depicts the depth of interference caused to WRSN. Exhibit A8 is a map which shows that as a result of the WTHZ relocation, there is no longer any overlap of contours between the stations and, as such, no interference would be delivered to WAXS.

Exhibit A9 shows the present interfering contour of WRSN overlaps with the protected contour of WTHZ and depicts the resulting depth of interference caused to WTHZ. Exhibit A10 is a map depicting the depth of interference to WTHZ as a result of the relocation of the station. The maps show that WTHZ will receive less interference from WRSN as a result of the relocation. Exhibit A11 shows the present interfering contour of the licensed WMEV-FM overlaps with the protected contour of WTHZ and depicts the depth of interference caused to WTHZ. Exhibit A12 is a map depicting the depth of interference to the proposed WTHZ from WMEV-FM as a result

3) The depth of interference is based on a ratio of desired to undesired contours based on the respective Class and channel of the interfering stations.

of the relocation. The maps show that as a result of the relocation WTHZ will receive a slight increase in interference from WMEV-FM. Exhibit A13 shows that neither the licensed WTHZ nor the proposed WTHZ protected contour receives interference from the licensed WAXS facility. A tabulation of the delivered and received interference is attached as Exhibit A14 and shows that following the relocation interference to WRSN will be reduced from 156,867 persons to 83,452 persons. Further, the interference which 9,635 persons in the WAXS contour presently receive will be eliminated. In addition, the interference to station WMEV-FM will be reduced from 15,715 persons to 12,612 persons. Additionally, where 222,080 persons in the WTHZ contour presently receive interference from WRSN and WMEV-FM, the number will be reduced to 139,354 persons as a result of the relocation.⁴

The interference tabulation shows that stations WRSN, WMEV-FM and WAXS will receive less interference from WTHZ based on the relocation (a net reduction). Further, while there is a slight increase of interference received from WMEV-FM to the proposed WTHZ facility in comparison to the licensed WTHZ facility, interference received from WRSN is substantially reduced. As a result of the proposed relocation, the net interference received by WTHZ is also reduced. There are two areas (one for WTHZ and one for WMEV-FM) which presently receive interference free service from the stations, but will receive new interference as a result of the relocation. In both cases, as shown on Exhibits A15 and A16, respectively, there are at least five existing services that will remain in the two loss areas.

4) All population data from 2000 U.S. Census.

Based on the reduction of interference to all impacted stations, the net reduction of interference received and the existence of other services in the new interference areas, this proposal is in compliance with 73.213(a) of the rules as demonstrated herein. It is also in compliance with §73.215 towards WCRS-FM, as demonstrated in Exhibit B, and in compliance with §73.207 to all other facilities as noted in Exhibit A2.

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DAVIDSON COUNTY BROADCASTING COMPANY
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EXHIBIT A1

CLEARANCE STUDY FOR WTHZ LEXINGTON, NORTH CAROLINA
USING PRESENT LICENSED SITE AS REFERENCE

REFERENCE		DISPLAY DATES
35 55 02 N	CLASS C	DATA 02-14-03
80 17 37 W	Current rules spacings	SEARCH 02-20-03
----- CHANNEL 231 - 94.1 MHz -----		

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
WTHZ	231C	Lexington	NC	0.0	0.00	290.0	-290.00
LICDCN	35 55 02	80 17 37	100.000 kW	309M	0.0	180.2	
	Davidson County B/casting Co.			BLH-19940909KH			

* <i>WRSN</i>	<i>230C</i>	<i>Burlington</i>	<i>NC</i>	<i>92.6</i>	<i>102.38</i>	<i>241.0</i>	<i>-138.62</i>
<i>LICDEN</i>	<i>35 52 15</i>	<i>79 09 40</i>	<i>100.000 kW</i>	<i>385M</i>	<i>63.6</i>	<i>149.8</i>	
	<i>Capstar TX Limited Partnership</i>			<i>BLH-19940523KB</i>			
* <i>WMEVFM</i>	<i>230C</i>	<i>Marion</i>	<i>VA</i>	<i>314.8</i>	<i>156.51</i>	<i>241.0</i>	<i>-84.49</i>
<i>LICDEN</i>	<i>36 54 08</i>	<i>81 32 33</i>	<i>100.000 kW</i>	<i>445M</i>	<i>97.3</i>	<i>149.8</i>	
	<i>Holston Valley Broadcasting</i>			<i>BLH-19870902KA</i>			
* <i>WWCC</i>	<i>233C1</i>	<i>Eden</i>	<i>NC</i>	<i>35.8</i>	<i>58.94</i>	<i>105.0</i>	<i>-46.06</i>
<i>LICDE</i>	<i>36 20 48</i>	<i>79 54 30</i>	<i>100.000 kW</i>	<i>299M</i>	<i>36.6</i>	<i>65.3</i>	
	<i>Clear Channel Broadcasting Lic.</i>			<i>BMLH-20010514AAN</i>			
* <i>WAXS</i>	<i>231B</i>	<i>Oak Hill</i>	<i>WV</i>	<i>341.7</i>	<i>239.04</i>	<i>274.0</i>	<i>-34.96</i>
<i>LIC CY</i>	<i>37 57 30</i>	<i>81 09 03</i>	<i>26.500 kW</i>	<i>198M</i>	<i>148.6</i>	<i>170.3</i>	
	<i>Plateau Broadcasting, Inc.</i>			<i>BMLH-19960118KD</i>			
<i>WYFQFM</i>	<i>228C3</i>	<i>Wadesboro</i>	<i>NC</i>	<i>180.9</i>	<i>96.32</i>	<i>96.0</i>	<i>0.32</i>
<i>LICNCN</i>	<i>35 02 57</i>	<i>80 18 38</i>	<i>8.700 kW</i>	<i>169M</i>	<i>59.9</i>	<i>59.7</i>	
	<i>Bible Broadcasting Network, Inc.</i>			<i>BLED-19951010KE</i>			
<i>WCMG</i>	<i>232C3</i>	<i>Latta</i>	<i>SC</i>	<i>156.0</i>	<i>179.40</i>	<i>176.0</i>	<i>3.40</i>
<i>LIC CN</i>	<i>34 26 20</i>	<i>79 29 44</i>	<i>10.500 kW</i>	<i>153M</i>	<i>111.5</i>	<i>109.4</i>	
	<i>Cumulus Licensing Corp.</i>			<i>BLH-19971113KB</i>			
<i>WCRSFM</i>	<i>231A</i>	<i>Cross Hill</i>	<i>SC</i>	<i>218.2</i>	<i>240.53</i>	<i>226.0</i>	<i>14.53</i>
<i>LICZC</i>	<i>34 12 16</i>	<i>81 54 37</i>	<i>3.600 kW</i>	<i>127M</i>	<i>149.5</i>	<i>140.5</i>	
	<i>Southeastern Broadcast Assoc.</i>			<i>BLH-19991012AAL</i>			
<i>WGSS</i>	<i>231A</i>	<i>Kingstree</i>	<i>SC</i>	<i>173.0</i>	<i>244.91</i>	<i>226.0</i>	<i>18.91</i>
<i>LIC CN</i>	<i>33 43 32</i>	<i>79 58 19</i>	<i>6.000 kW</i>	<i>100M</i>	<i>152.2</i>	<i>140.5</i>	
	<i>Root Communications License</i>			<i>BLH-19990125KG</i>			
<i>WSSS</i>	<i>284C</i>	<i>Charlotte</i>	<i>NC</i>	<i>205.8</i>	<i>81.99</i>	<i>48.0</i>	<i>33.99</i>
<i>LICDCY</i>	<i>35 15 06</i>	<i>80 41 12</i>	<i>100.000 kW</i>	<i>369M</i>	<i>51.0</i>	<i>29.8</i>	
	<i>Infinity Radio Subsidiary Op.</i>			<i>BLH-19920416KB</i>			

* Note : These stations are pre-1964 grandfathered shortspacings, see Exhibit A.

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EXHIBIT A2

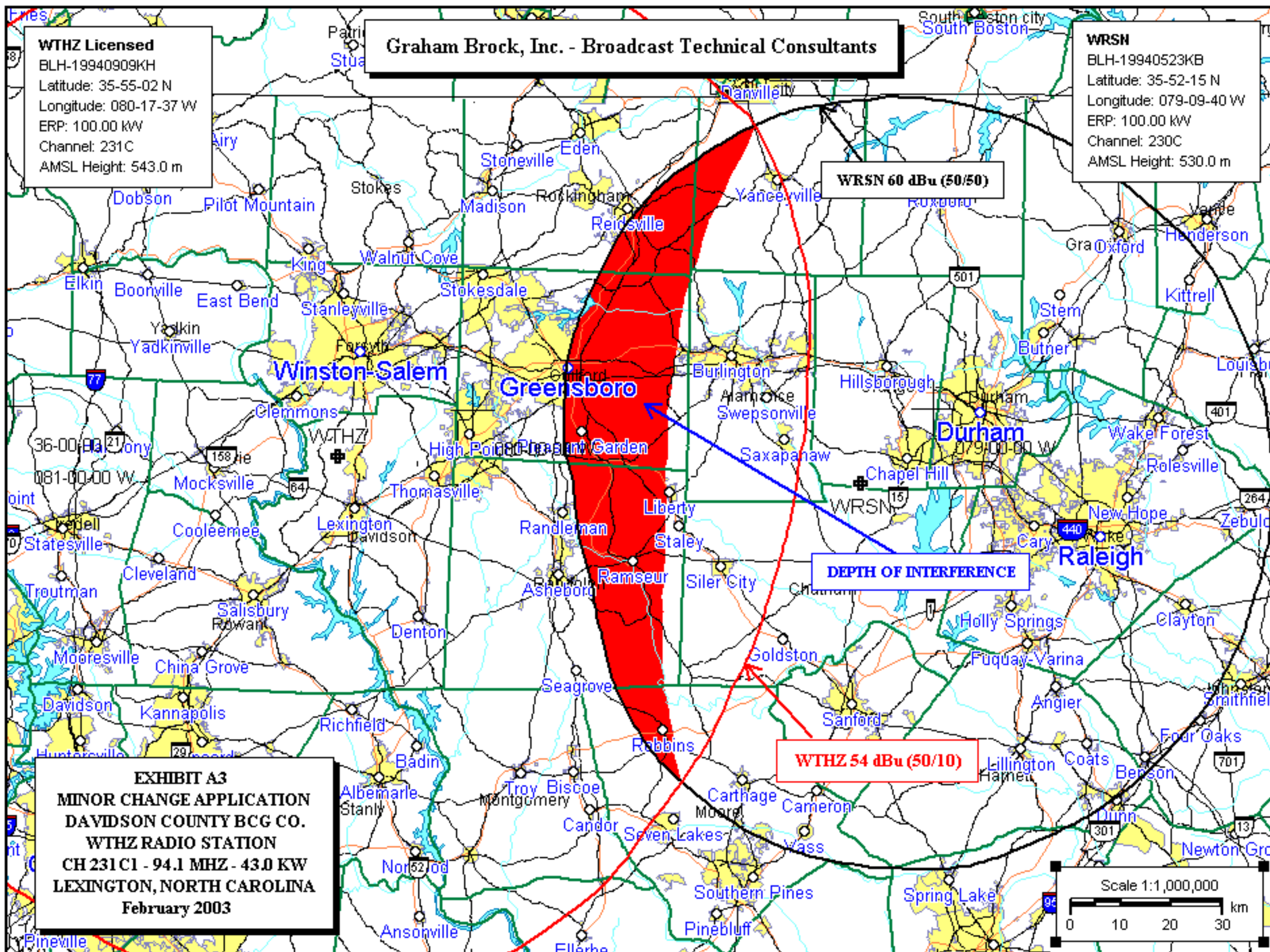
CLEARANCE STUDY FOR WTHZ LEXINGTON, NORTH CAROLINA
USING PROPOSED SITE AS REFERENCE

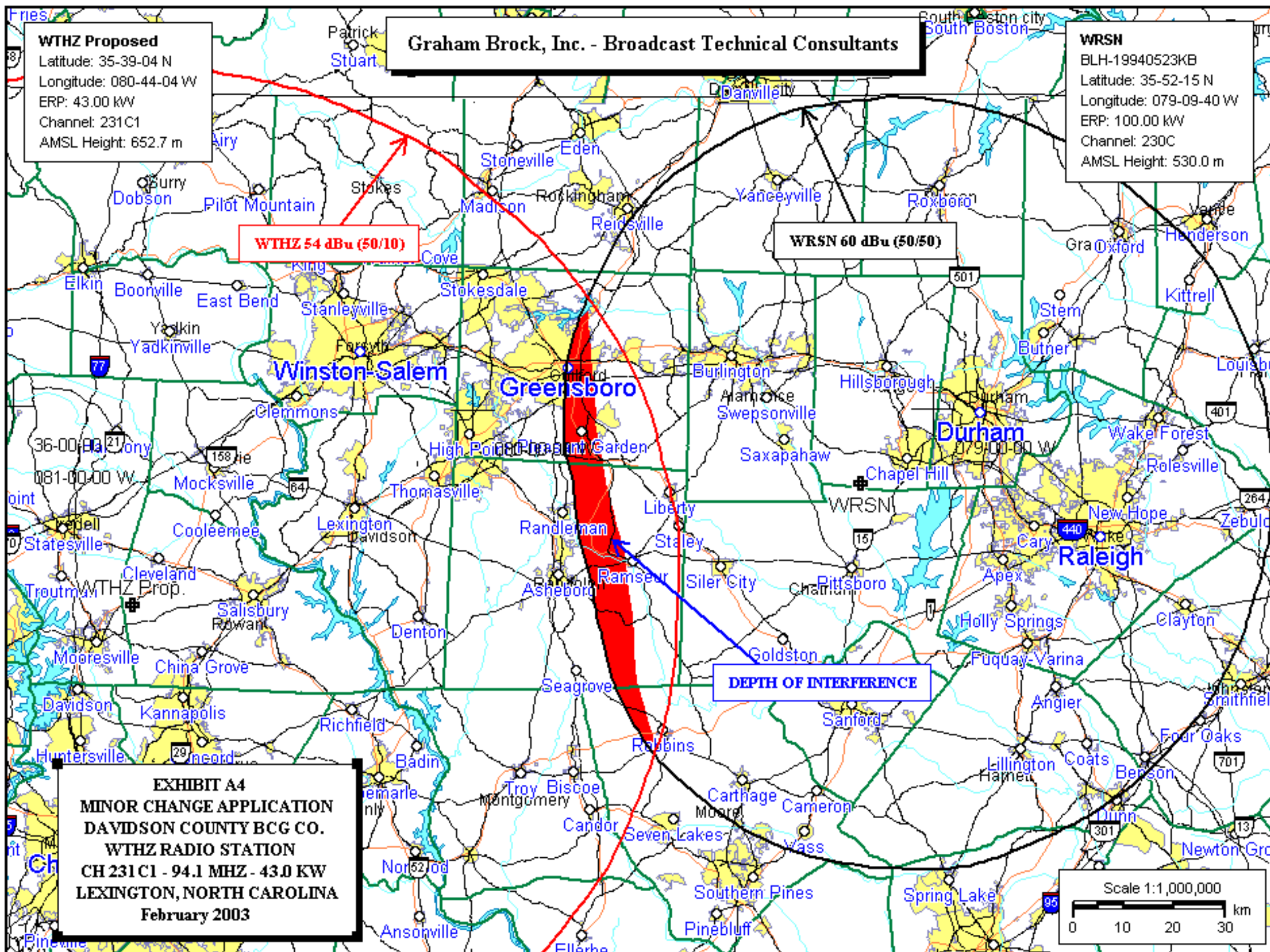
REFERENCE				CLASS C1				DISPLAY DATES			
35 39 04 N								DATA 02-14-03			
80 44 04 W				Current rules spacings				SEARCH 02-20-03			
-----				CHANNEL 231 - 94.1 MHz				-----			
CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)				

WTHZ	231C	Lexington	NC	53.2	49.60	270.0	-220.40				
LICDCN	35 55 02	80 17 37	100.000 kW	309M	30.8	167.8					
Davidson County B/casting Co.				BLH-19940909KH							
* WRSN	230C	Burlington	NC	79.8	144.36	209.0	-64.64				
LICDEN	35 52 15	79 09 40	100.000 kW	385M	89.7	129.9					
Capstar TX Limited Partnership				BLH-19940523KB							
* WMEVFM	230C	Marion	VA	332.7	156.66	209.0	-52.34				
LICDEN	36 54 08	81 32 33	100.000 kW	445M	97.4	129.9					
Holston Valley Broadcasting				BLH-19870902KA							
* WAXS	231B	Oak Hill	WV	351.9	258.72	270.0	-11.28				
LIC CY	37 57 30	81 09 03	26.500 kW	198M	160.8	167.8					
Plateau Broadcasting, Inc.				BMLH-19960118KD							
+ WCRSFM	231A	Cross Hill	SC	214.0	193.13	200.0	-6.87				
LICZC	34 12 16	81 54 37	3.600 kW	127M	120.0	124.3					
Southeastern Broadcast Assoc.				BLH-19991012AAL							
WYFQFM	228C3	Wadesboro	NC	150.0	77.10	76.0	1.10				
LICNCN	35 02 57	80 18 38	8.700 kW	169M	47.9	47.2					
Bible Broadcasting Network, Inc.				BLED-19951010KE							
WSSS	284C	Charlotte	NC	174.4	44.53	41.0	3.53				
LICDCY	35 15 06	80 41 12	100.000 kW	369M	27.7	25.5					
Infinity Radio Subsidiary Op.				BLH-19920416KB							
WGSS	231A	Kingstree	SC	161.7	224.74	200.0	24.74				
LIC CN	33 43 32	79 58 19	6.000 kW	100M	139.7	124.3					
Root Communications License				BLH-19990125KG							
WWCC	233C1	Eden	NC	43.6	107.26	82.0	25.26				
LICDE	36 20 48	79 54 30	100.000 kW	299M	66.7	51.0					
Clear Channel Broadcasting Lic.				BMLH-20010514AAN							
WCMG	232C3	Latta	SC	139.7	175.68	144.0	31.68				
LIC CN	34 26 20	79 29 44	10.500 kW	153M	109.2	89.5					
Cumulus Licensing Corp.				BLH-19971113KB							

* Note : These stations remain as pre-1964 shortages, see Exhibit A.

+ Note : This shortage is address under §73.215 of the rules, see Exhibit B.





Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ Licensed

BLH-19940909KH
Latitude: 35-55-02 N
Longitude: 080-17-37 W
ERP: 100.00 kW
Channel: 231C
AMSLL Height: 543.0 m

WMEV-FM

BLH-19870902KA
Latitude: 36-54-08 N
Longitude: 081-32-33 W
ERP: 100.00 kW
Channel: 230C
AMSLL Height: 1180.0 m

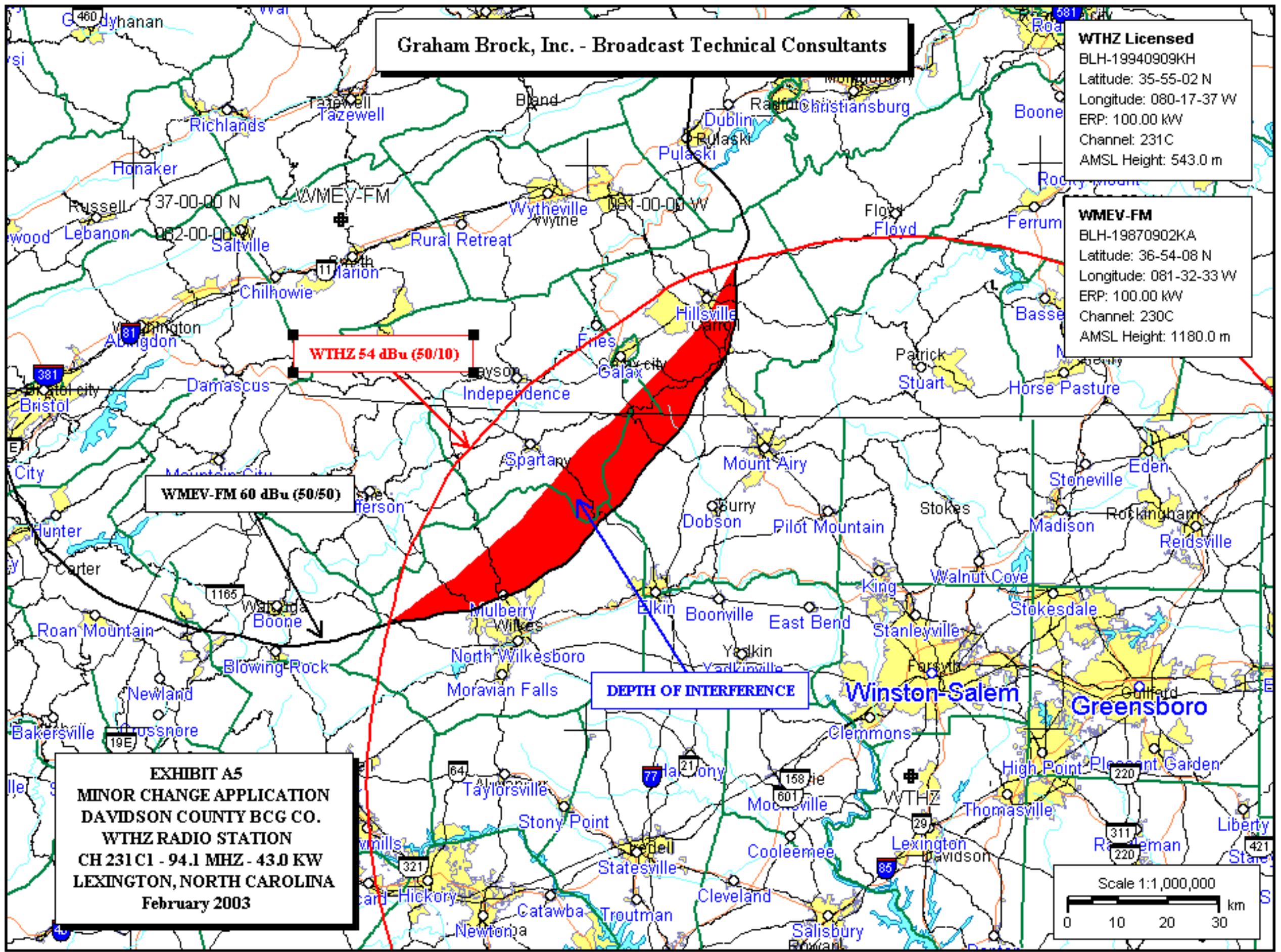
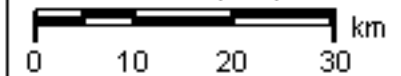
WTHZ 54 dBu (50/10)

WMEV-FM 60 dBu (50/50)

DEPTH OF INTERFERENCE

EXHIBIT A5
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231C1 - 94.1 MHz - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

Scale 1:1,000,000



Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ Proposed

Latitude: 35-39-04 N
Longitude: 080-44-04 W
ERP: 43.00 kW
Channel: 231C1
AMSL Height: 652.7 m

WMEV-FM

BLH-19870902KA
Latitude: 36-54-08 N
Longitude: 081-32-33 W
ERP: 100.00 kW
Channel: 230C
AMSL Height: 1180.0 m

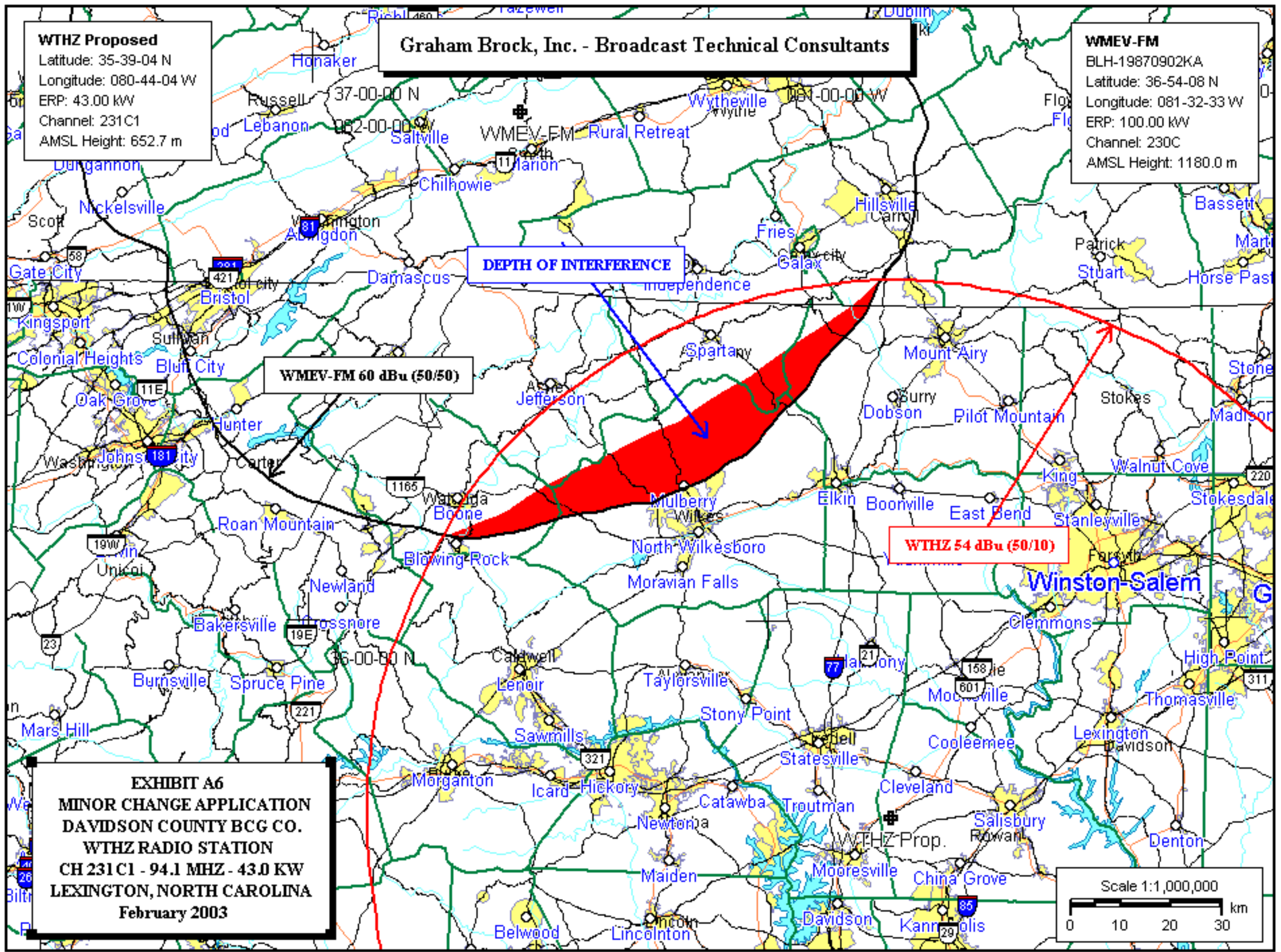
DEPTH OF INTERFERENCE

WMEV-FM 60 dBu (50/50)

WTHZ 54 dBu (50/10)

EXHIBIT A6
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

Scale 1:1,000,000
0 10 20 30 km



Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ

BLH-19940909KH
Latitude: 35-55-02 N
Longitude: 080-17-37 W
ERP: 100.00 kW
Channel: 231C
AMSL Height: 543.0 m

WAXS

BMLH-19960118KD
Latitude: 37-57-30 N
Longitude: 081-09-03 W
ERP: 26.50 kW
Channel: 231B
AMSL Height: 775.0 m

WTHZ 34 dBu (50/10)

WAXS 54 dBu (50/50)

DEPTH OF INTERFERENCE

EXHIBIT A7
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
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Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ Proposed

Latitude: 35-39-04 N
Longitude: 080-44-04 W
ERP: 43.00 kW
Channel: 231C1
AMSL Height: 652.7 m

WAXS

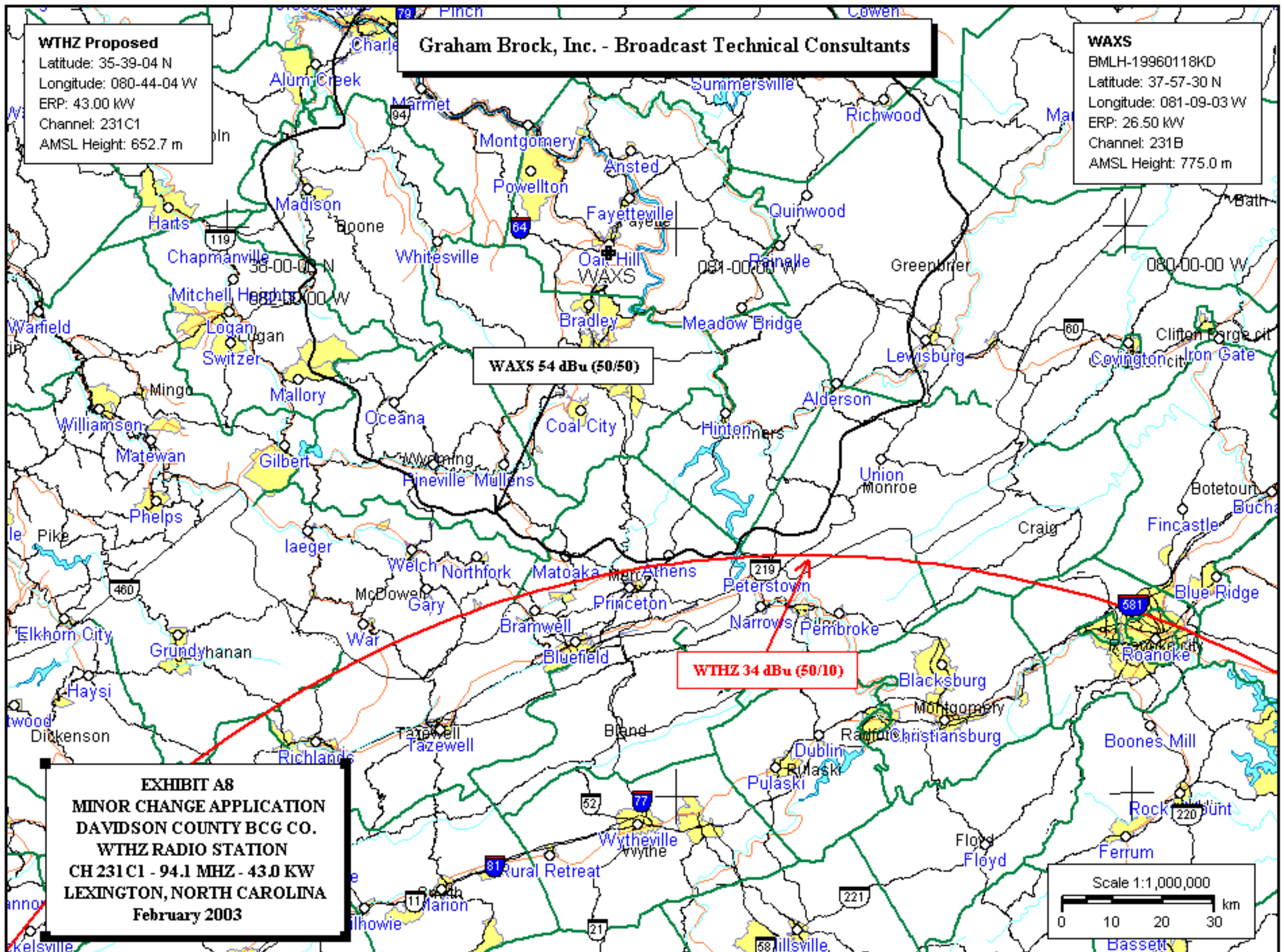
BMLH-19960118KD
Latitude: 37-57-30 N
Longitude: 081-09-03 W
ERP: 26.50 kW
Channel: 231B
AMSL Height: 775.0 m

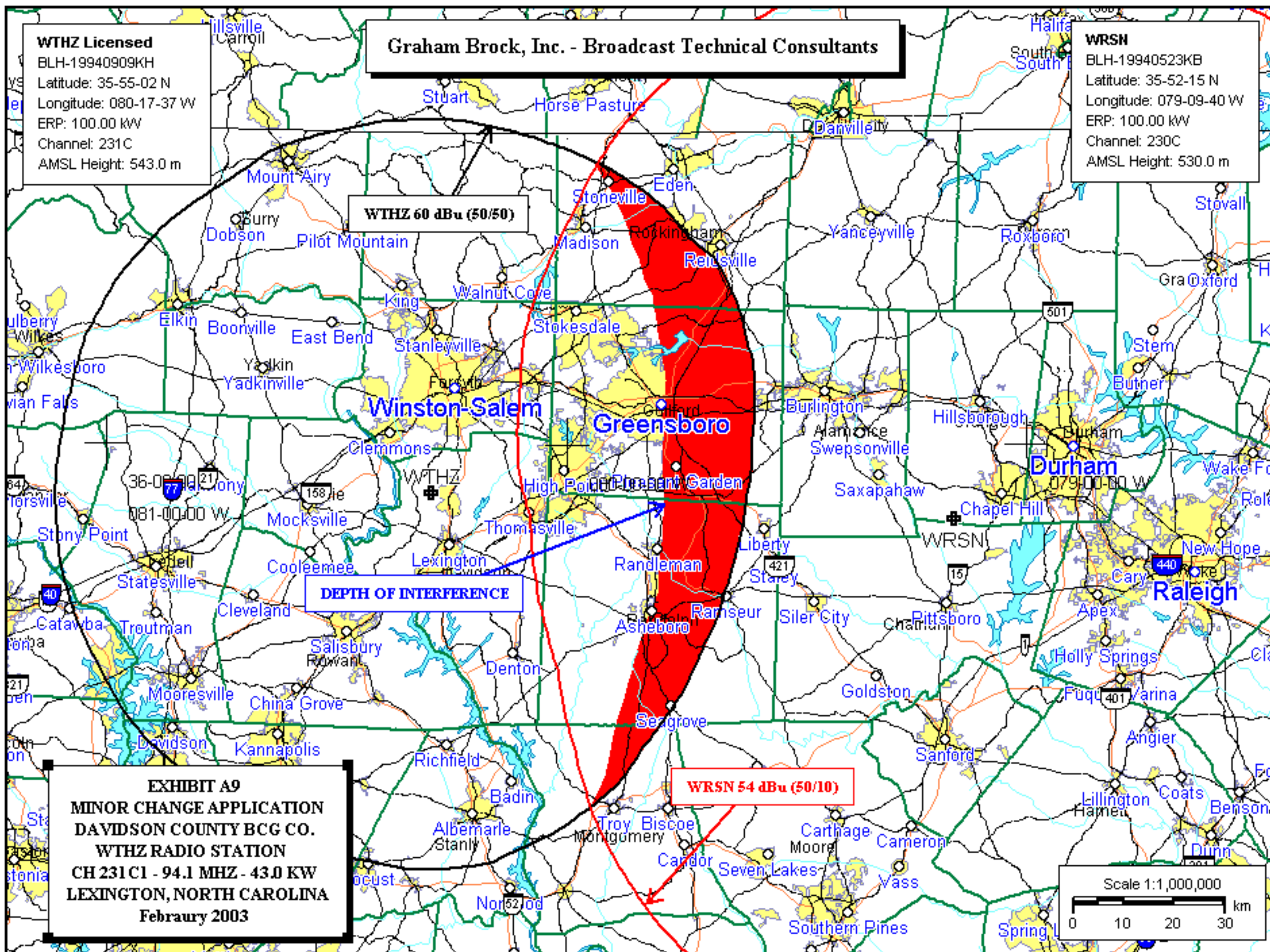
WAXS 54 dBu (50/50)

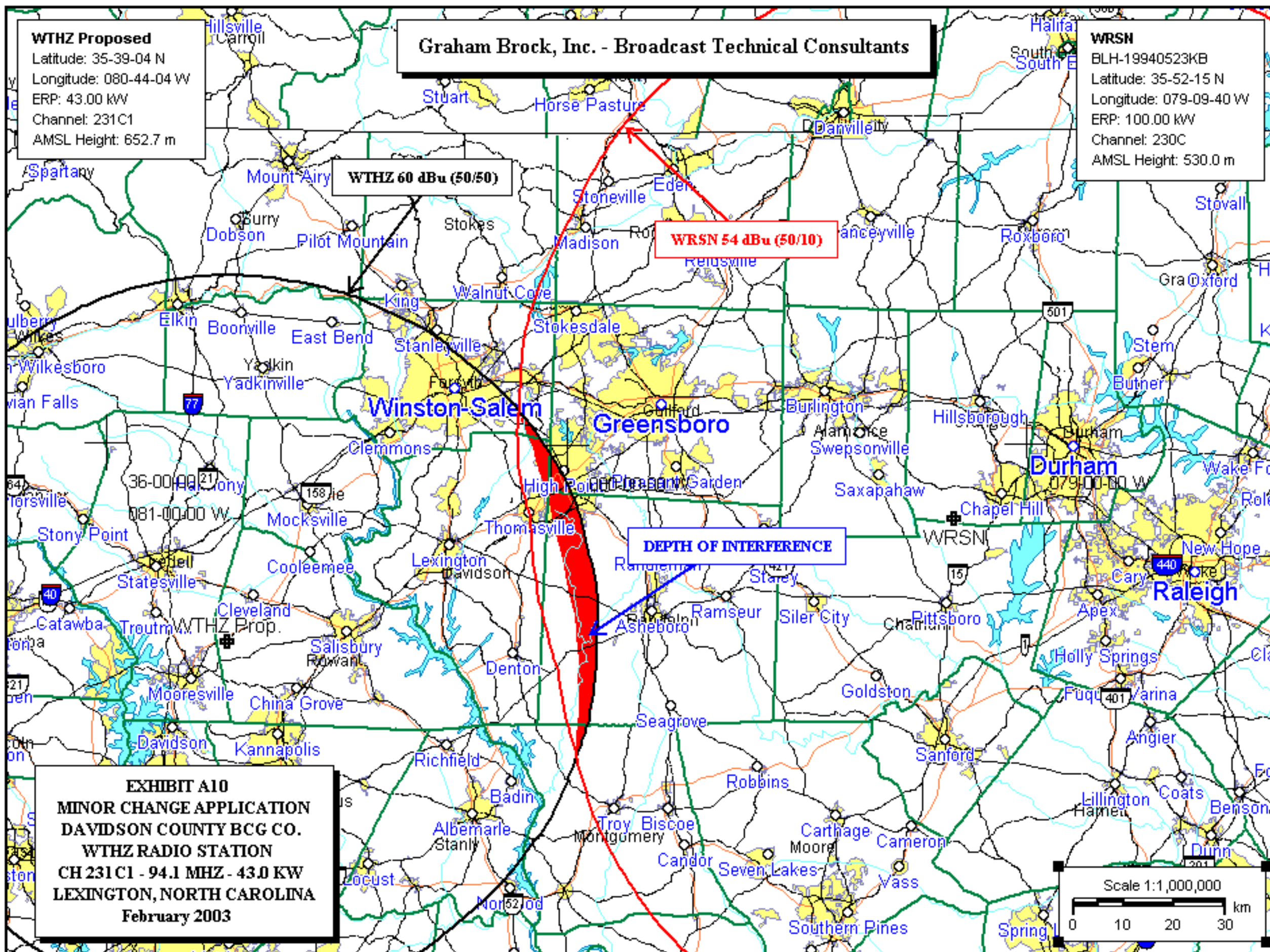
WTHZ 34 dBu (50/10)

EXHIBIT A8
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

Scale 1:1,000,000
0 10 20 30 km







Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ

BLH-19940909KH
Latitude: 35-55-02 N
Longitude: 080-17-37 W
ERP: 100.00 kW
Channel: 231C
AMSL Height: 543.0 m

WMEV-FM

BLH-19870902KA
Latitude: 36-54-08 N
Longitude: 081-32-33 W
ERP: 100.00 kW
Channel: 230C
AMSL Height: 1180.0 m

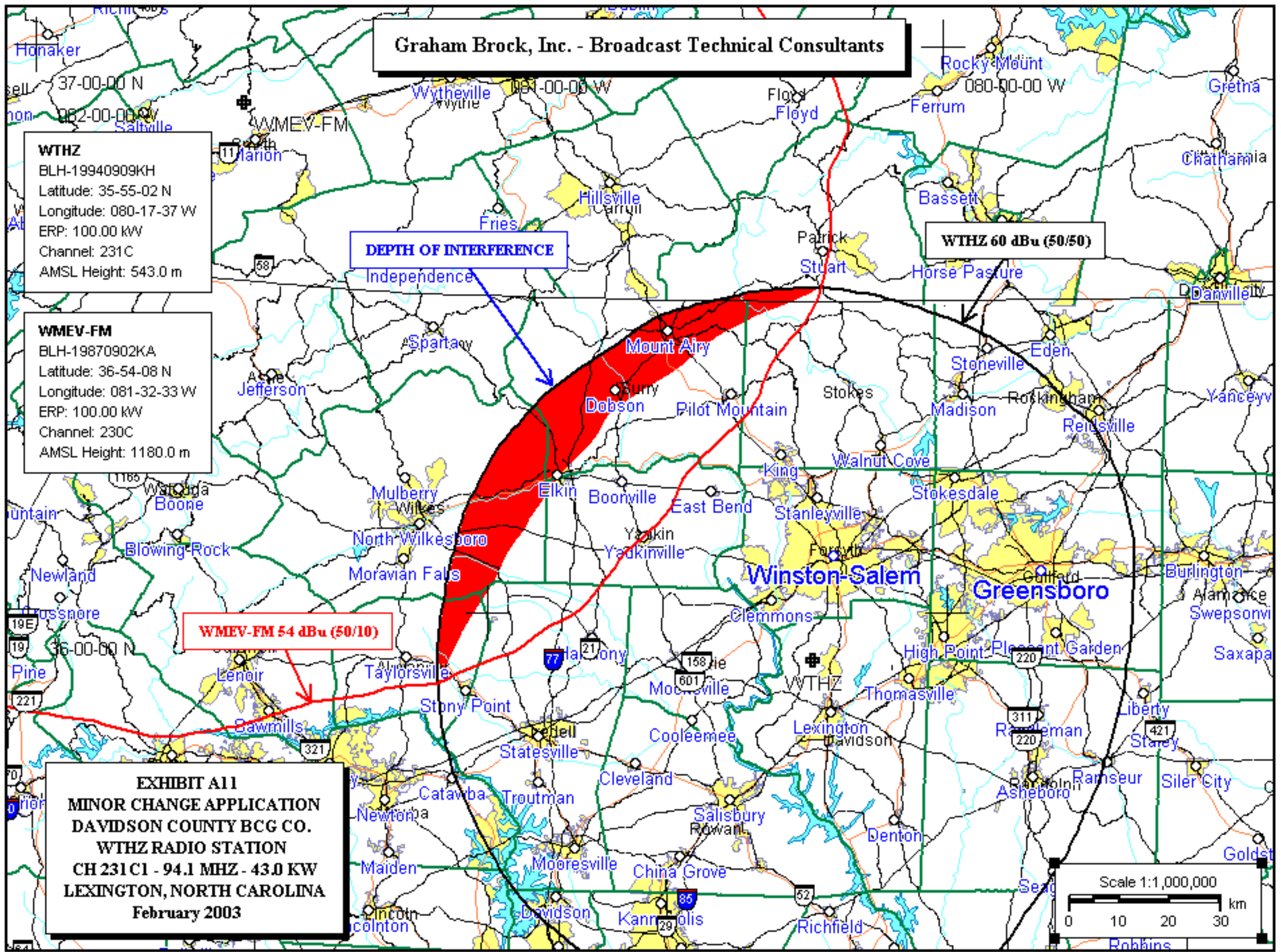
DEPTH OF INTERFERENCE

WTHZ 60 dBu (50/50)

WMEV-FM 54 dBu (50/10)

EXHIBIT A11
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

Scale 1:1,000,000
0 10 20 30 km



Graham Brock, Inc. - Broadcast Technical Consultants

WTHZ Proposed

Latitude: 35-39-04 N
Longitude: 080-44-04 W
ERP: 43.00 kW
Channel: 231C1
AMSL Height: 652.7 m

WMEV-FM

BLH-19870902KA
Latitude: 36-54-08 N
Longitude: 081-32-33 W
ERP: 100.00 kW
Channel: 230C
AMSL Height: 1180.0 m

WMEV-FM 54 dBu (50/10)

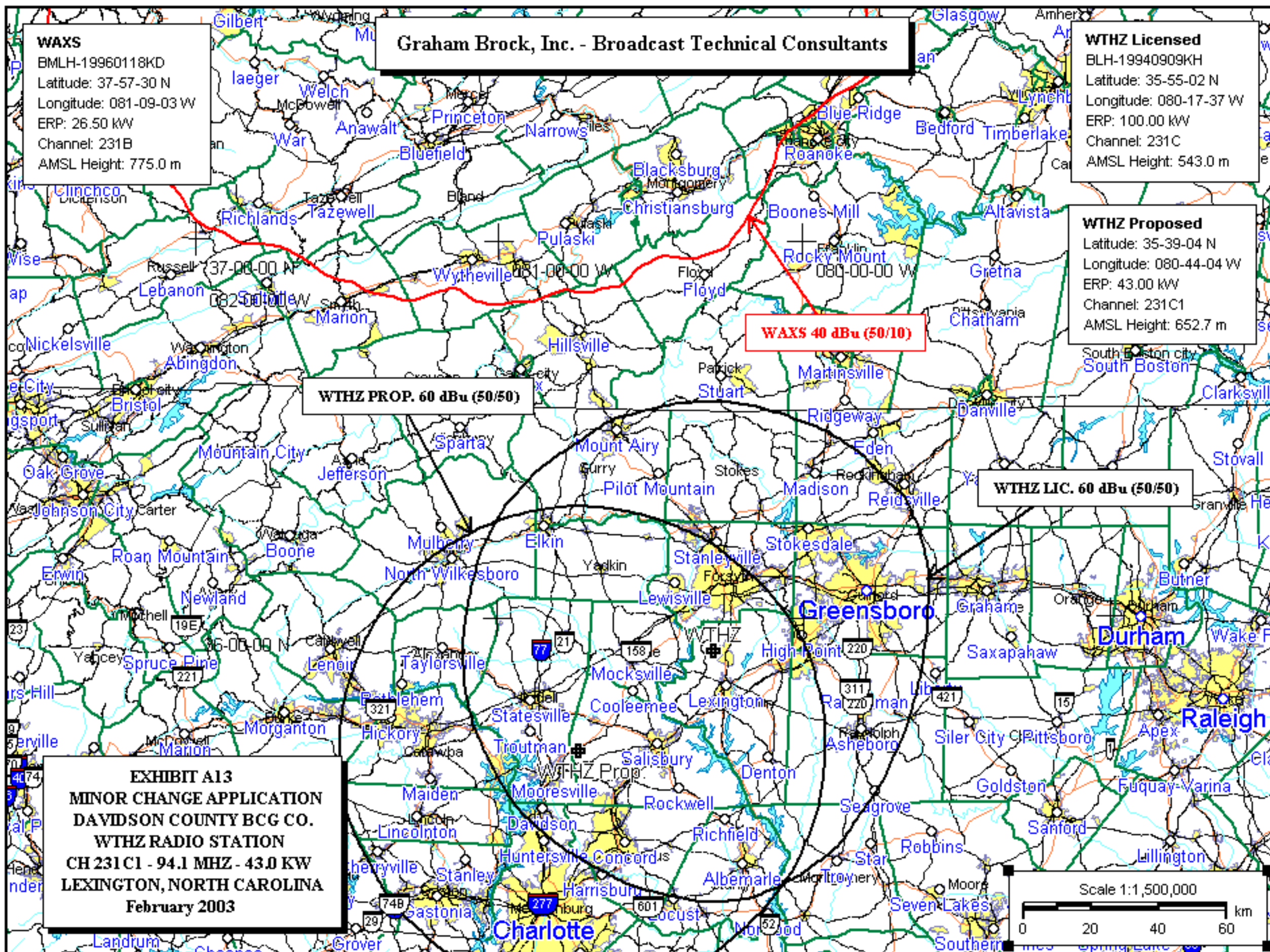
DEPTH OF INTERFERENCE

WTHZ 60 dBu (50/50)

EXHIBIT A12
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231 C1 - 94.1 MHZ - 43.0 KW
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Scale 1:1,000,000

0 10 20 30 km



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EXHIBIT A14

§73.213 Interference Analysis

Existing Interference Delivered by WTHZ to:			Existing Interference Received by WTHZ from:	
<u>Station</u>	<u>Area (sq. km)</u>	<u>Pop</u>	<u>Area (sq. km)</u>	<u>Pop</u>
WRSN	1,832.5	156,867	1,646.8	168,998
WMEV-FM	898.0	15,715	958.7	22,703
WAXS	557.0	9,635	0	0

Proposed Interference Delivered by WTHZ to:			Proposed Interference Received by WTHZ from:	
<u>Station</u>	<u>Area (sq. km)</u>	<u>Pop</u>	<u>Area (sq. km)</u>	<u>Pop</u>
WRSN	475.5	83,452	265.6	30,129
WMEV-FM	795.2	12,612	1,037.7	52,597
WAXS	0	0	0	0

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EXHIBIT A14 (continued)

§73.213 Interference Analysis

	<u>Area (sq km)</u>	<u>Pop</u>
Existing IX Del by WTHZ:	3,287.5	182,217
Proposed IX Del by WTHZ:	1,270.7	96,064
Total Reduction IX Del by WTHZ:	2,016.8	86,153
Existing IX Rec'd by WTHZ:	2,605.5	191,701
Proposed IX Rec'd by WTHZ:	1,303.3	82,726
Total Reduction IX Rec'd by WTHZ:	1,302.2	108,975
Net Reduction of Total Interference:	3,319.0	195,128

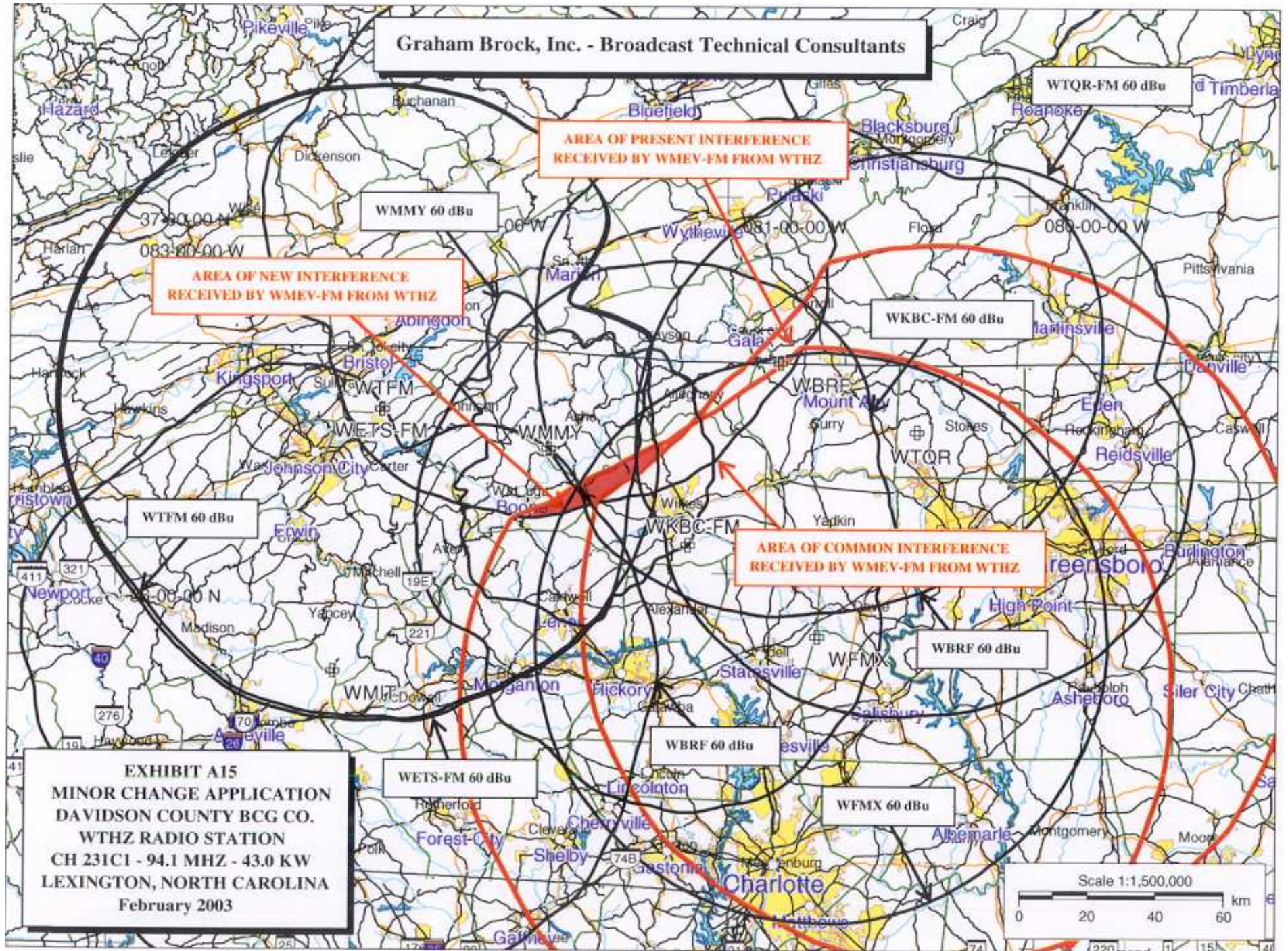
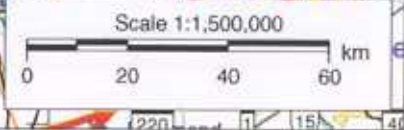
Graham Brock, Inc. - Broadcast Technical Consultants

**AREA OF PRESENT INTERFERENCE
RECEIVED BY WMEV-FM FROM WTHZ**

**AREA OF NEW INTERFERENCE
RECEIVED BY WMEV-FM FROM WTHZ**

**AREA OF COMMON INTERFERENCE
RECEIVED BY WMEV-FM FROM WTHZ**

**EXHIBIT A15
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
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February 2003**



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CH 231C1 - 94.1 MHZ - 43.0 KW
LEXINGTON, NORTH CAROLINA
February 2003

EXHIBIT A15A

Tabulation of Stations Serving WMEV-FM Loss Area

<u>Call Sign</u>	<u>Channel</u>	<u>City</u>	<u>State</u>
WETS-FM	208C	Johnson City	Tennessee
WKBC-FM	247C	North Wilkesboro	North Carolina
WBRF	251C	Galax	Virginia
WTFM	253C	Kingsport	Tennessee
WTQR	281C	Winston-Salem	North Carolina
WFMX	289C	Statesville	North Carolina
WMMY	291C3	Jefferson	North Carolina
WMIT	295C	Black Mountain	North Carolina

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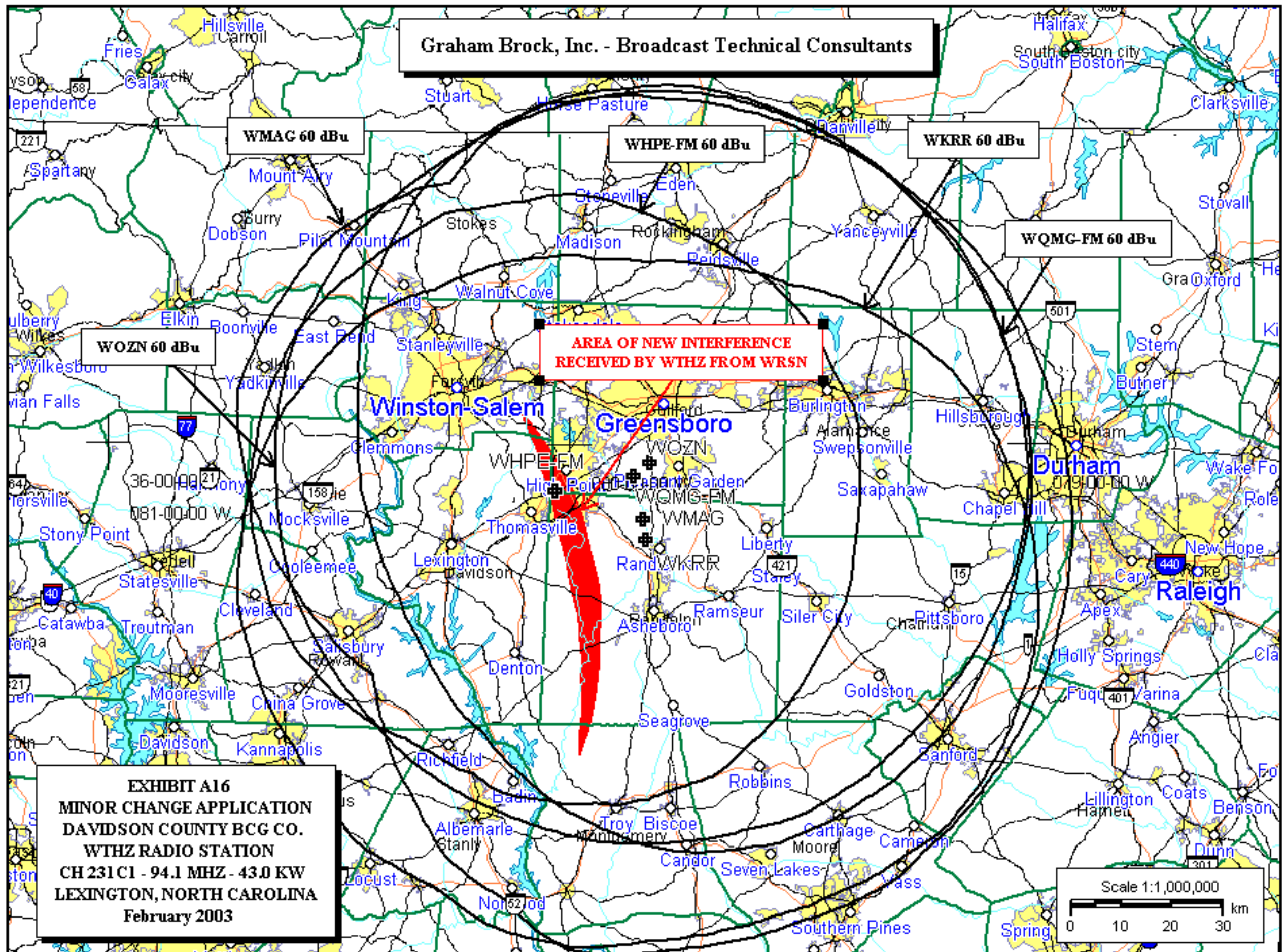


EXHIBIT A16
MINOR CHANGE APPLICATION
DAVIDSON COUNTY BCG CO.
WTHZ RADIO STATION
CH 231 C1 - 94.1 MHZ - 43.0 KW
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WTHZ (FM) RADIO STATION
CH 231C1 - 94.1 MHZ - 43.0 KW
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February 2003

EXHIBIT A16A

Tabulation of Stations Serving WTHZ Loss Area

<u>Call Sign</u>	<u>Channel</u>	<u>City</u>	<u>State</u>
WKRR	222C	Asheboro	North Carolina
WHPE-FM	238C1	High Point	North Carolina
WQMG-FM	246C	Greensboro	North Carolina
WOZN	254C	Greensboro	North Carolina
WMAG	258C	High Point	North Carolina