

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
WLAW, NEWAYGO, MICHIGAN
WTNR, HOLLAND, MICHIGAN
WHTS, COOPERSVILLE, MICHIGAN
WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

TECHNICAL EXHIBIT

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RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
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August 2017

TECHNICAL STATEMENT

1. This technical statement and attached exhibits were prepared on behalf of Radio License Holding CBC, LLC ("RLC"), in connection with the proposed facility changes for WLAV-FM, Grand Rapids, Michigan. In addition to WLAV-FM, RLH is the licensee of WLAW, Channel 223A, Newaygo, Michigan; WTNR, Channel 233B, Holland, Michigan; WHTS, Channel 287B, Coopersville, Michigan; WBBL-FM, Greenville, Michigan; and AM station WJRW, 1340 kHz, Grand Rapids, Michigan. Exhibit A is a map showing the city grade contours of these stations.¹ WLAV-FM, WTNR, WHTS, and WJRW are all licensed to communities in metro counties in the Grand Rapids, Michigan Arbitron Market. WBBL-FM is not licensed to a community in a metro county in the Grand Rapids Market but is considered "home" to that market. WLAW is not licensed nor considered "home" to a community in a metro county in the Grand Rapids, Michigan Arbitron Market, therefore, this review will verify compliance of commonly owned stations in both rated and non-rated markets.

GRAND RAPIDS, MICHIGAN ARBITRON/BIA MARKET REVIEW

2. As shown on Exhibit B, there are thirty-nine AM and FM (commercial and non-commercial) stations listed in the Grand Rapids, Michigan Arbitron Market (Market #68). RLH

1) 70 dBu (FCC 50/50) for FM stations and 5.0 mV/m for AM stations.

controls four FM stations and one AM station in the market. The number of stations indicated falls in the thirty to forty-four stations tier of §73.3555(a)(1)(ii) of the Commission's rules. At this level, common ownership or control of up to seven stations, with no more than four in the same service, is permissible. Therefore, RLH is in compliance in the rated Grand Rapids, Michigan market.

REVISED CONTOUR OVERLAP REVIEW

3. Since WLAW is a non-metro station and WBBL-FM is considered “home” to a county that is within the Grand Rapids Michigan Arbitron Market, a study has been conducted to verify that the changes to WLAV-FM, in conjunction with WLAW and WBBL-FM, are also in compliance with the Commission’s multiple ownership rules. The locations of the city grade contours create areas of overlap requiring review as shown in Exhibit C. Based on the areas of overlap, two distinct markets are created. Revised Contour Overlap Market #1 consists of FM stations WLAV-FM, WLAW, and WHTS. Revised Contour Overlap Market #2 consists of FM Stations WLAV-FM, WTNR, WHTS, WBBL-FM, and AM station WJRW. These Market Boundaries are shown in Exhibits D and E.

REVISED CONTOUR OVERLAP MARKET #1

4. Exhibit F is a depiction of the other AM and FM stations (commercial and non-commercial) providing service to the Revised Contour Market #1 Boundary.² Exhibit G is a tabulation of the stations in Radio Market #1, which totals fifty-four when the three subject stations are included. The number of stations depicted falls in the forty-five or more station tier

2) Stations owned or controlled by Radio License Holding CBC, LLC are not included, if not a subject station.

of §73.3555(a)(1)(i) of the Commission's rules. At this level, common ownership or control of up to eight stations with no more than five in the same service is permissible. Since RLH controls only three, RLH is in compliance in the non-rated Radio Market #1.

REVISED CONTOUR OVERLAP MARKET #2

5. Exhibit H is a depiction of the other AM and FM stations (commercial and non-commercial) providing service to the Revised Contour Market #2 Boundary.³ Exhibit I is a tabulation of the stations in Radio Market #2, which totals sixty-five when the five subject stations are included. The number of stations depicted falls in the forty-five or more station tier of §73.3555(a)(1)(i) of the Commission's rules. At this level, common ownership or control of up to eight stations with no more than five in the same service is permissible. Since RLH controls only four FM Stations and one AM Station, RLH is in compliance in the non-rated Radio Market #2.

6. Based on the compliance shown in rated and non-rated markets, the proposed changes for WLAV-FM are in compliance with §73.3555 of the Commission's rules, regarding the above referenced stations.

7. The foregoing technical statement was prepared on behalf of Radio License Holding CBC, LLC by Graham Brock, Inc., its Technical Consultants. All information contained herein is true and accurate to the best of our belief and knowledge. All data relating to AM and FM facilities in the relevant BIA/Arbitron market was determined using the BIA Financial Network,

3) See Footnote #2, supra..

Inc., Media Access Pro, Version 4.5. BIA database. Technical data related to AM and FM facilities was extracted from the Commission's CDBS database. We assume no liability for errors or omissions in either database which may be adverse to the information contained herein.

WLAV-FM - Grand Rapids, MI - Proposed
Latitude: 42-57-13 N - Longitude: 085-41-55 W
Channel: 245 - Frequency: 96.9 MHz
ERP: 50.00 kW - AMSL Height: 356.7 m

WLAW - Newaygo, MI - BLH20050805AAN
Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 223 - Frequency: 92.5 MHz
ERP: 2.25 kW - AMSL Height: 392.3 m

WTNR - Holland, MI - BLH19840309AR
Latitude: 42-51-20 N - Longitude: 085-57-45 W
Channel: 233 - Frequency: 94.5 MHz
ERP: 50.00 kW - AMSL Height: 353.0 m

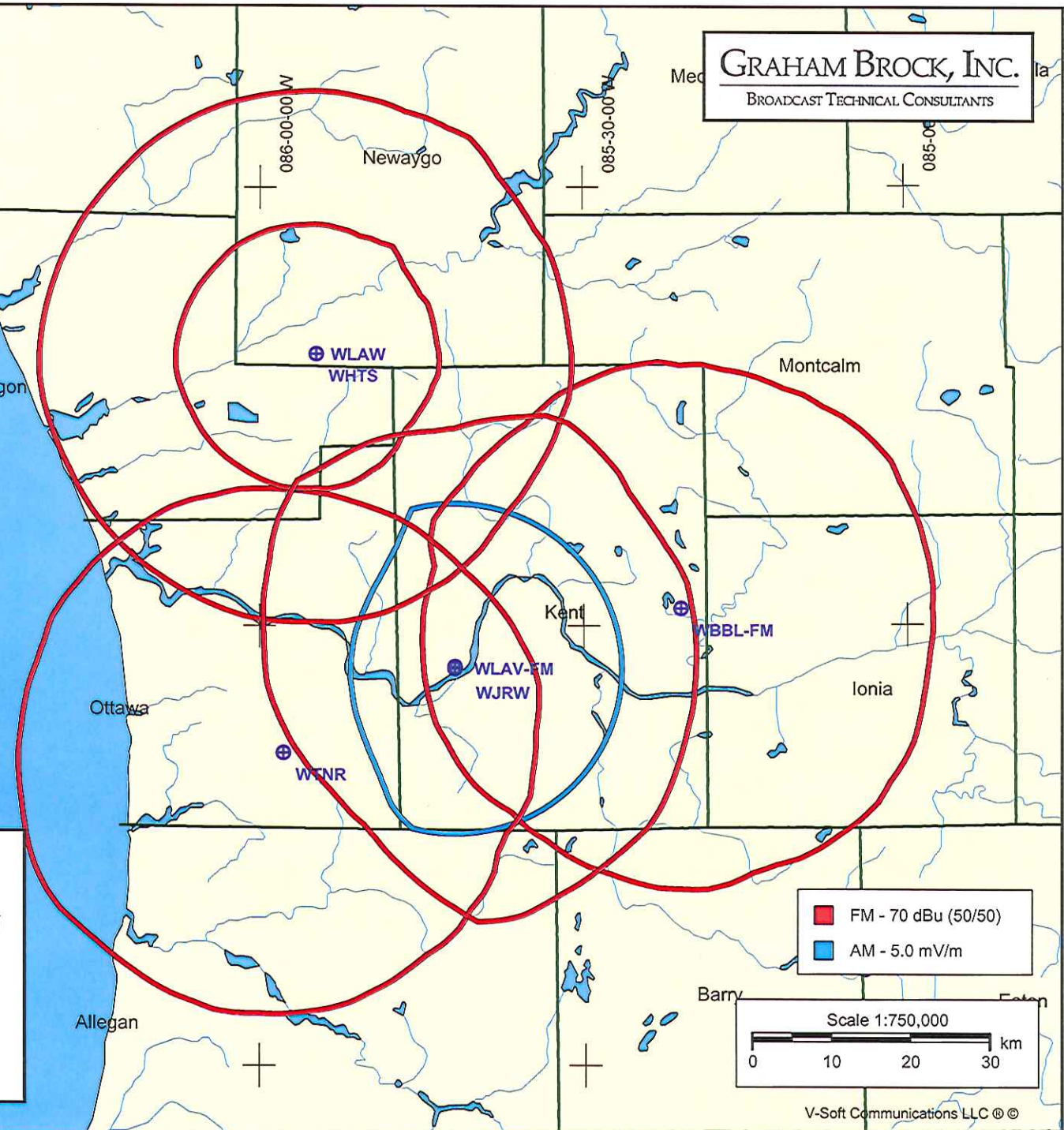
WHTS - Coopersville, MI - BLH20060516ACU
Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 287 - Frequency: 105.3 MHz
ERP: 20.00 kW - AMSL Height: 469.0 m

WBBL-FM - Greenville, MI - BLH19891122KB
Latitude: 43-01-10 N - Longitude: 085-20-58 W
Channel: 297 - Frequency: 107.3 MHz
ERP: 50.00 kW - AMSL Height: 399.0 m

WJRW - GRAND RAPIDS, MI
1340 - AM
Latitude: 42-57-05 N - Longitude: 085-41-55 W

EXHIBIT A
RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
WLAW, NEWAYGO, MICHIGAN
WTNR, HOLLAND, MICHIGAN
WHTS, COOPERSVILLE, MICHIGAN
WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS



FCC Geographic Market Definition for Grand Rapids, MI

Call Letters	AM/FM	Freq	Type Station	Format	Home Market	Market Designtn Date	Home Mkt Rank	Owner	City & State of License	County of License
WBBL	FM	107.3	C	Sports	Grand Rapids, MI	07/02/2003	68	Cumulus Media Holdings Inc	Greenville, MI	Montcalm
WBCT	FM	93.7	C	Country	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Grand Rapids, MI	Kent
WBFX	FM	101.3	C	Rock	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Grand Rapids, MI	Kent
WBLU	FM	88.9	NC	Cls/Jaz/NPR	Grand Rapids, MI	07/02/2003	68	Blue Lake Fine Art Camp	Grand Rapids, MI	Kent
WCSG	FM	91.3	NC	ChrsContem	Grand Rapids, MI	07/02/2003	68	Cornerstone University	Grand Rapids, MI	Kent
WFGR	FM	98.7	C	Cisc Hits	Grand Rapids, MI	07/02/2003	68	Townsquare Media Incorporated	Grand Rapids, MI	Kent
WFUR	AM	1570	C	Religion	Grand Rapids, MI	07/02/2003	68	Kuiper Stations	Grand Rapids, MI	Kent
WFUR	FM	102.9	C	ChrsContem	Grand Rapids, MI	07/02/2003	68	Kuiper Stations	Grand Rapids, MI	Kent
WGHN	AM	1370	C	Sports	Grand Rapids, MI	07/02/2003	68	WGHN Inc	Grand Haven, MI	Ottawa
WGHN	FM	92.1	C	AC	Grand Rapids, MI	07/02/2003	68	WGHN Inc	Grand Haven, MI	Ottawa
WGNB	FM	89.3	NC	Religion	Grand Rapids, MI	07/02/2003	68	Moody Bible Institute of Chicago Incorporated	Zeeland, MI	Ottawa
WGRD	FM	97.9	C	Alternative	Grand Rapids, MI	07/02/2003	68	Townsquare Media Incorporated	Grand Rapids, MI	Kent
WGVU	AM	1480	NC	Old/NPR/Tlk	Grand Rapids, MI	07/02/2003	68	Grand Valley State University	Kentwood, MI	Kent
WGVU	FM	88.5	NC	NPR/Nws/Ja	Grand Rapids, MI	07/02/2003	68	Grand Valley State University	Allendale, MI	Ottawa
WHTC	AM	1450	C	News/Talk	Grand Rapids, MI	07/02/2003	68	Midwest Communications Incorporated	Holland, MI	Ottawa
WHTS	FM	105.3	C	Hot AC	Grand Rapids, MI	06/15/2006	68	Cumulus Media Holdings Inc	Coopersville, MI	Ottawa
WJQK	FM	99.3	C	ChrsContem	Grand Rapids, MI	07/02/2003	68	Lanser Broadcasting Corp	Zeeland, MI	Ottawa
WJRW	AM	1340	C	News/Talk	Grand Rapids, MI	07/02/2003	68	Cumulus Media Holdings Inc	Grand Rapids, MI	Kent
WLAV	FM	96.9	C	Cisc Rock	Grand Rapids, MI	07/02/2003	68	Cumulus Media Holdings Inc	Grand Rapids, MI	Kent
WLHT	FM	95.7	C	Hot AC	Grand Rapids, MI	07/02/2003	68	Townsquare Media Incorporated	Grand Rapids, MI	Kent
WMAX	FM	96.1	C	Sports	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Holland, MI	Ottawa
WMCQ	FM	91.7	NC	Chrst/Talk	Grand Rapids, MI	07/02/2003	68	American Family Association Incorporated	Muskegon, MI	Muskegon
WMFN	AM	640	C	Span/Talk	Grand Rapids, MI	07/02/2003	68	Birach Broadcasting Corporation	Zeeland, MI	Ottawa
WMJH	AM	810	C	Mexican	Grand Rapids, MI	07/02/2003	68	Cano's Broadcasting LLC	Rockford, MI	Kent
WMPA	FM	93.1	C	Country	Grand Rapids, MI	10/05/2012	68	WGHN Inc	Ferrysburg, MI	Ottawa
WNHG	FM	89.7	NC	ChrsContem	Grand Rapids, MI	07/02/2003	68	West Central Michigan Media Ministries	Grand Rapids, MI	Kent
WNWZ	AM	1410	C	Urban AC	Grand Rapids, MI	07/02/2003	68	Townsquare Media Incorporated	Grand Rapids, MI	Kent
WOOD	AM	1300	C	Nws/Tlk/Spt	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Grand Rapids, MI	Kent
WPNW	AM	1260	C	Tlk/Nws/Spt	Grand Rapids, MI	07/02/2003	68	Lanser Broadcasting Corp	Zeeland, MI	Ottawa
WPRR	AM	1680	C	Talk	Grand Rapids, MI	07/02/2003	68	Goodrich Radio LLC	Ada, MI	Kent
WSRW	FM	105.7	C	Soft AC	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Grand Rapids, MI	Kent
WTHS	FM	89.9	NC	Alternative	Grand Rapids, MI	07/02/2003	68	Hope College	Holland, MI	Ottawa
WTKG	AM	1230	C	News/Talk	Grand Rapids, MI	07/02/2003	68	iHeartMedia	Grand Rapids, MI	Kent

"C" - Commercial Station; "NC" - Non Commercial Station

"p" indicates pending sale to owner listed

FCC Geographic Market Definition for Grand Rapids, MI

Call Letters	AM/ FM	Freq	Type Station	Format	Home Market	Market Designtn Date	Home Mkt Rank	Owner	City & State of License	County of License
WTNR	FM	94.5	C	Country	Grand Rapids, MI	07/02/2003	68	Cumulus Media Holdings Inc	Holland, MI	Ottawa
WTRV	FM	100.5	C	Soft AC	Grand Rapids, MI	07/02/2003	68	Townsquare Media Incorporated	Walker, MI	Kent
WVGR	FM	104.1	NC	Nws/Tlk/Inf	Grand Rapids, MI	07/02/2003	68	Regents of The University of Michigan	Grand Rapids, MI	Kent
WVHF	AM	1140	C	Religion	Grand Rapids, MI	07/02/2003	68	Holy Family Radio	Kentwood, MI	Kent
WYCE	FM	88.1	NC	AAA	Grand Rapids, MI	07/02/2003	68	Grand Rapids Cable Access Center	Wyoming, MI	Kent
WYGR	AM	1530	C	Urban AC	Grand Rapids, MI	07/02/2003	68	WYGR Broadcasting	Wyoming, MI	Kent

Number of Stations in Geographic Market 39

Previous Stations in Geographic Market

WSNX	FM	104.5	C	CHR	Muskegon, MI	01/11/2007	235	iHeartMedia	Muskegon, MI	Muskegon
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"C" - Commercial Station; "NC" - Non Commercial Station

"p" indicates pending sale to owner listed

WLAV-FM - Grand Rapids, MI - Proposed
Latitude: 42-57-13 N - Longitude: 085-41-55 W
Channel: 245 - Frequency: 96.9 MHz
ERP: 50.00 kW - AMSL Height: 356.7 m

WLAW - Newaygo, MI - BLH20050805AAN
Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 223 - Frequency: 92.5 MHz
ERP: 2.25 kW - AMSL Height: 392.3 m

WTNR - Holland, MI - BLH19840309AR
Latitude: 42-51-20 N - Longitude: 085-57-45 W
Channel: 233 - Frequency: 94.5 MHz
ERP: 50.00 kW - AMSL Height: 353.0 m

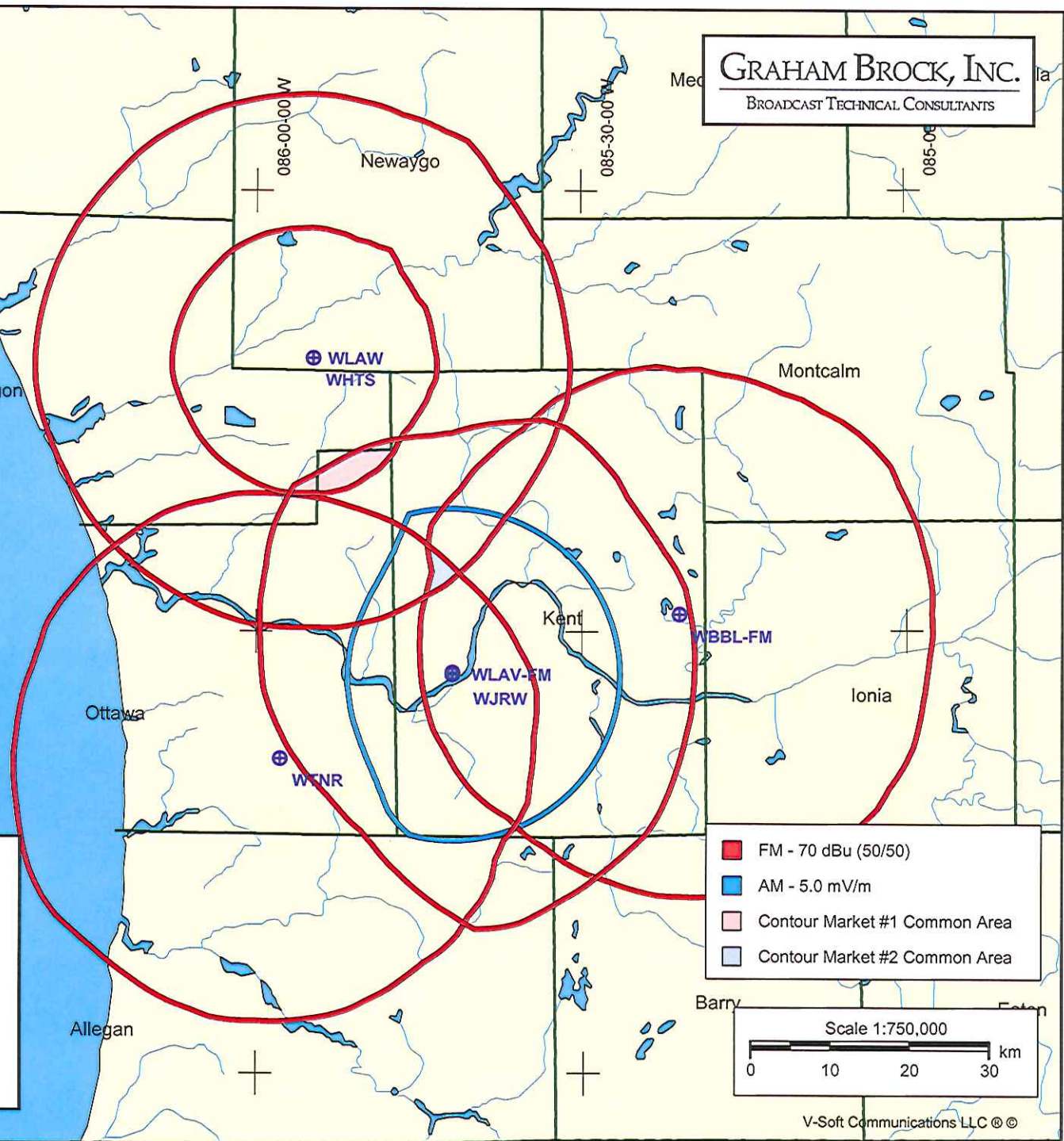
WHTS - Coopersville, MI - BLH20060516ACU
Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 287 - Frequency: 105.3 MHz
ERP: 20.00 kW - AMSL Height: 469.0 m

WBBL-FM - Greenville, MI - BLH19891122KB
Latitude: 43-01-10 N - Longitude: 085-20-58 W
Channel: 297 - Frequency: 107.3 MHz
ERP: 50.00 kW - AMSL Height: 399.0 m

WJRW - GRAND RAPIDS, MI
1340 - AM
Latitude: 42-57-05 N - Longitude: 085-41-55 W

EXHIBIT C
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RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
WLAW, NEWAYGO, MICHIGAN
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August 2017

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS



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Channel: 223 - Frequency: 92.5 MHz
ERP: 2.25 kW - AMSL Height: 392.3 m

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Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 287 - Frequency: 105.3 MHz
ERP: 20.00 kW - AMSL Height: 469.0 m

REVISED CONTOUR OVERLAP MARKET #1 BOUNDARY

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

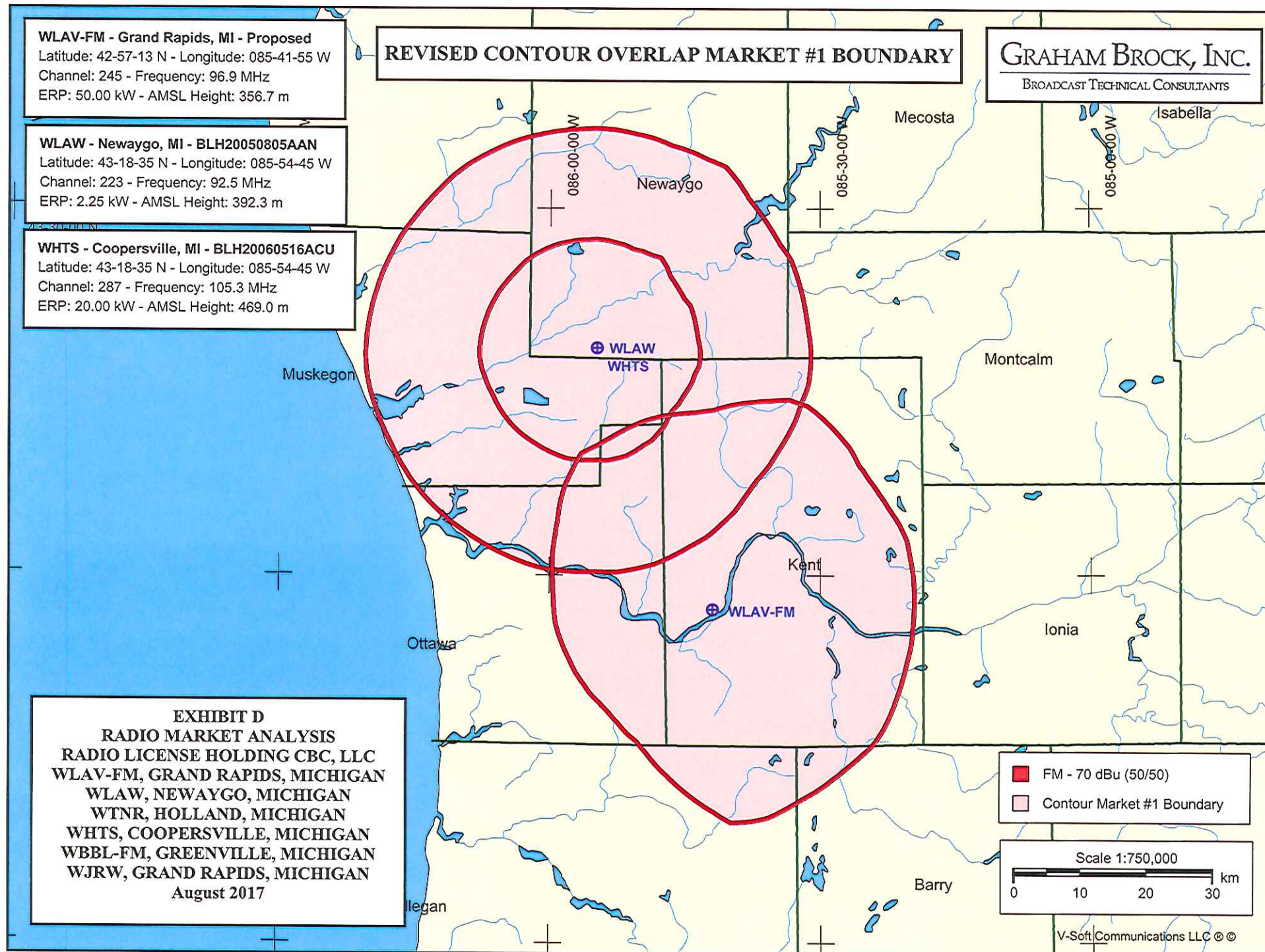


EXHIBIT D
RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
WLAW, NEWAYGO, MICHIGAN
WTNR, HOLLAND, MICHIGAN
WHTS, COOPERSVILLE, MICHIGAN
WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

WLAV-FM - Grand Rapids, MI - Proposed
Latitude: 42-57-13 N - Longitude: 085-41-55 W
Channel: 245 - Frequency: 96.9 MHz
ERP: 50.00 kW - AMSL Height: 356.7 m

WTNR - Holland, MI - BLH19840309AR
Latitude: 42-51-20 N - Longitude: 085-57-45 W
Channel: 233 - Frequency: 94.5 MHz
ERP: 50.00 kW - AMSL Height: 353.0 m

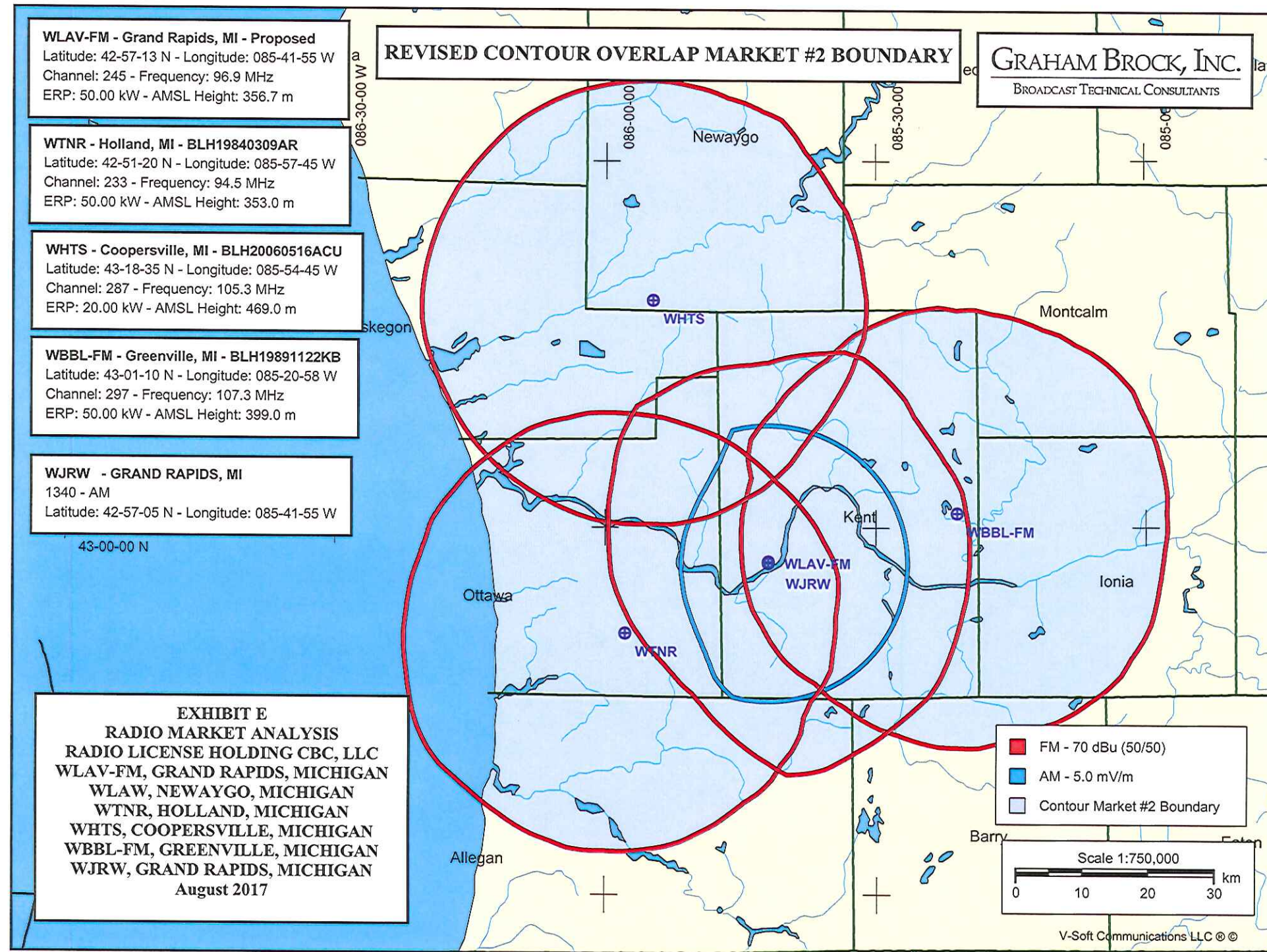
WHTS - Coopersville, MI - BLH20060516ACU
Latitude: 43-18-35 N - Longitude: 085-54-45 W
Channel: 287 - Frequency: 105.3 MHz
ERP: 20.00 kW - AMSL Height: 469.0 m

WBBL-FM - Greenville, MI - BLH19891122KB
Latitude: 43-01-10 N - Longitude: 085-20-58 W
Channel: 297 - Frequency: 107.3 MHz
ERP: 50.00 kW - AMSL Height: 399.0 m

WJRW - GRAND RAPIDS, MI
1340 - AM
Latitude: 42-57-05 N - Longitude: 085-41-55 W

REVISED CONTOUR OVERLAP MARKET #2 BOUNDARY

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS



REVISED CONTOUR OVERLAP MARKET #1 CONTRIBUTORS

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS



EXHIBIT F

RADIO MARKET ANALYSIS

RADIO LICENSE HOLDING CBC, LLC

AV-FM, GRAND RAPIDS, MICHIGAN

WLAW, NEWAYGO, MICHIGAN

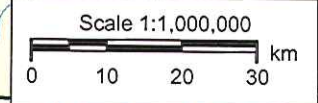
WTNR, HOLLAND, MICHIGAN

WHTS, COOPERSVILLE, MICHIGAN

WBBL-FM, GREENVILLE, MICHIGAN

WJRW, GRAND RAPIDS, MICHIGAN

August 2017



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RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
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WTNR, HOLLAND, MICHIGAN
WHTS, COOPERSVILLE, MICHIGAN
WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

EXHIBIT G

Total number of overlapping contours: 54

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WLAV-FM	FM	245B	Grand Rapids	MI	Proposed	0.0	0.0
WLAW	FM	223A	Newaygo	MI	BLH20050805AAN	43.2	336.3
WHTS	FM	287B	Coopersville	MI	BLH20060516ACU	43.2	336.3

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WYCE	FM	201B1	Wyoming	MI	BLED20100708PCK	4.8	164.9
WSMZ	FM	202A	Crystal Valley	MI	BLED20110103AAH	91.5	331.5
WGVU-FM	FM	203A	Allendale	MI	BLED20120522AGA	24.2	298.3
WBLU-FM	FM	205A	Grand Rapids	MI	BLED19930712KB	7.2	58.3
WHEY	FM	205A	North Muskegon	MI	BLED20081121AME	63.7	304.8
WGNB	FM	207B	Zeeland	MI	BLED19881221KA	26.9	241.4
WNHG	FM	209A	Grand Rapids	MI	BLED20150805AAO	8.8	72.3
WBLV	FM	212C1	Twin Lake	MI	BLED20151020AAA	72.1	337.4
WSLI	FM	215B1	Belding	MI	BLED20110107AEQ	34.5	64.5
WCSG	FM	217B	Grand Rapids	MI	BLED19910801KA	18.0	167.1
WMCQ	FM	219A	Muskegon	MI	BLED20050401AOE	43.3	336.4
WDPW	FM	220A	Greenville	MI	BLED20080818ABB	34.5	64.5
WGHN-FM	FM	221A	Grand Haven	MI	BLH20110518ACV	45.7	284.7
WMPA	FM	226A	Ferrysburg	MI	BLH20120723ADX	45.7	284.7
WBCT	FM	229B	Grand Rapids	MI	BLH19800616AK	38.0	159.7
WWKR	FM	231C3	Hart	MI	BLH20071126AJL	91.5	331.5
WGV5-FM	FM	237A	Whitehall	MI	BLH19821105AF	67.8	311.2
WLHT-FM	FM	239B	Grand Rapids	MI	BLH19840120AE	8.8	1.2
WMAX-FM	FM	241B	Holland	MI	BLH19850403KR	20.4	223.1
WGRD-FM	FM	250B	Grand Rapids	MI	BLH19880321KE	18.0	167.1
WFGR	FM	254A	Grand Rapids	MI	BMLH20050714ABA	8.8	1.2
WJQK	FM	257A	Zeeland	MI	BLH19920316KA	26.0	234.2
WTRV	FM	263A	Walker	MI	BLH20060602AAJ	7.7	334.2
WBFX	FM	267B	Grand Rapids	MI	BMLH20130607ABB	29.4	70.6
WMRR	FM	269B1	Muskegon Heights	MI	BLH19940902KB	63.0	305.0
WMUK	FM	271B	Kalamazoo	MI	BLED20140522AFS	61.2	167.0
WYBR	FM	272C3	Big Rapids	MI	BLH19921112KE	81.6	6.6
WFUR-FM	FM	275B	Grand Rapids	MI	BLH19890911KD	0.0	0.0
WVGR	FM	281B	Grand Rapids	MI	BMLH20080306ABQ	36.0	157.0
WSNX-FM	FM	283B	Muskegon	MI	BLH19880930KC	38.7	316.1
WSRW-FM	FM	289B	Grand Rapids	MI	BLH20071129AJD	36.0	157.0
WVFM	FM	293B	Kalamazoo	MI	BLH20060726ANY	55.8	161.6
WOOD-FM	FM	295B	Muskegon	MI	BLH20000410ACJ	43.9	314.5
WMUS	FM	300B1	Muskegon	MI	BLH19970609KB	63.0	305.0

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WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

EXHIBIT G (continued)

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WLAV-FM	FM	245B	Grand Rapids	MI	Proposed	0.0	0.0
WLAW	FM	223A	Newaygo	MI	BLH20050805AAN	43.2	336.3
WHTS	FM	287B	Coopersville	MI	BLH20060516ACU	43.2	336.3

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WNWZ	AM	1410	GRAND RAPIDS	MI	BML20121115AIQ	7.1	58.5
WOOD	AM	1300	GRAND RAPIDS	MI	BL20030930BEY	22.2	171.1
WGVU	AM	1480	KENTWOOD	MI	BL20061002CAF	13.9	151.9
WYGR	AM	1530	WYOMING	MI	BL19810819BH	4.9	233.6
WMFN	AM	640	ZEELAND	MI	BL19941014AE	26.0	234.2
WVHF	AM	1140	KENTWOOD	MI	BML20130315AEL	19.8	95.6
WTKG	AM	1230	GRAND RAPIDS	MI	BL19810511AN	4.9	21.3
WPRR	AM	1680	ADA	MI	BL19990331DC	19.8	95.6
WFUR	AM	1570	GRAND RAPIDS	MI	BL	0.1	65.6
WPNW	AM	1260	ZEELAND	MI	BL19981110AA	41.1	233.4
WBRN	AM	1460	BIG RAPIDS	MI	BL20080604ADJ	80.8	12.5
WION	AM	1430	IONIA	MI	BL20090814ABJ	50.3	83.3
WGLM	AM	1380	GREENVILLE	MI	BL20030122AGC	42.7	57.7
WMJH	AM	810	ROCKFORD	MI	BL19960625AF	20.7	28.0
WGV5	AM	850	MUSKEGON	MI	BL19860604AD	50.1	293.9
WGHN	AM	1370	GRAND HAVEN	MI	BL	44.3	282.4
WKBZ	AM	1090	MUSKEGON	MI	BL20000410ACI	57.7	308.6

Distance and bearing calculations from coordinates: 42-57-13 N, 085-41-55 W

Duopoly Options:

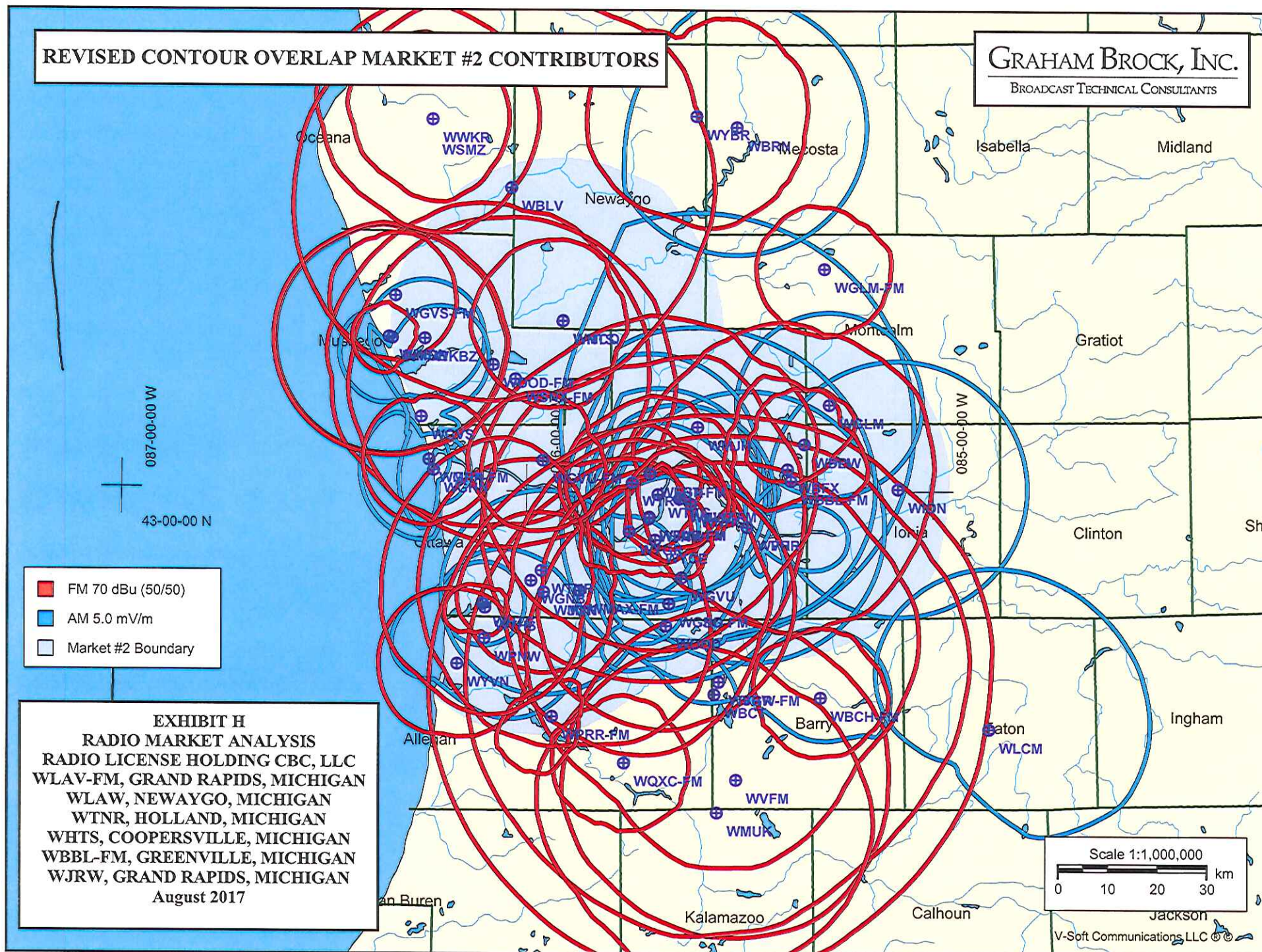
TV: Not Included

FM: 3.16 mV/m (70 dBu); Include NCE

AM: 5.0 mV/m

Stations more than 92 km from the common area were excluded.

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS



RADIO MARKET ANALYSIS
RADIO LICENSE HOLDING CBC, LLC
WLAV-FM, GRAND RAPIDS, MICHIGAN
WLAW, NEWAYGO, MICHIGAN
WTNR, HOLLAND, MICHIGAN
WHTS, COOPERSVILLE, MICHIGAN
WBBL-FM, GREENVILLE, MICHIGAN
WJRW, GRAND RAPIDS, MICHIGAN
August 2017

EXHIBIT I

Total number of overlapping contours: 65

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WLAV-FM	FM	245B Grand Rapids	MI	Proposed	0.0	0.0
WTNR	FM	233B Holland	MI	BLH19840309AR	24.1	243.3
WHTS	FM	287B Coopersville	MI	BLH20060516ACU	43.2	336.3
WBBL-FM	FM	297B Greenville	MI	BLH19891122KB	29.4	75.5
WJRW	AM	1340 GRAND RAPIDS	MI	BL19800925AI	0.2	180.0

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WYCE	FM	201B1 Wyoming	MI	BLD20100708PCK	4.8	164.9
WSMZ	FM	202A Crystal Valley	MI	BLD20110103AAH	91.5	331.5
WGVU-FM	FM	203A Allendale	MI	BLD20120522AGA	24.2	298.3
WBLU-FM	FM	205A Grand Rapids	MI	BLD19930712KB	7.2	58.3
WHEY	FM	205A North Muskegon	MI	BLD20081121AME	63.7	304.8
WGNB	FM	207B Zeeland	MI	BLD19881221KA	26.9	241.4
WNHG	FM	209A Grand Rapids	MI	BLD20150805AAO	8.8	72.3
WTHS	FM	210A Holland	MI	BLD19850425LP	37.7	240.8
WPRR-FM	FM	211A Clyde Township	MI	BLD20141031AAJ	44.7	205.8
WBLV	FM	212C1 Twin Lake	MI	BLD20151020AAA	72.1	337.4
WSLI	FM	215B1 Belding	MI	BLD20110107AEQ	34.5	64.5
WCSG	FM	217B Grand Rapids	MI	BLD19910801KA	18.0	167.1
WMCQ	FM	219A Muskegon	MI	BLD20050401AOE	43.3	336.4
WDPW	FM	220A Greenville	MI	BLD20080818ABB	34.5	64.5
WGHN-FM	FM	221A Grand Haven	MI	BLH20110518ACV	45.7	284.7
WYVN	FM	224A Saugatuck	MI	BLH20021002ABE	48.5	232.4
WMFA	FM	226A Ferrysburg	MI	BLH20120723ADX	45.7	284.7
WBCT	FM	229B Grand Rapids	MI	BLH19800616AK	38.0	159.7
WNKR	FM	231C3 Hart	MI	BLH20071126AJL	91.5	331.5
WGVF-FM	FM	237A Whitehall	MI	BLH19821105AF	67.8	311.2
WLHT-FM	FM	239B Grand Rapids	MI	BLH19840120AE	8.8	1.2
WMAX-FM	FM	241B Holland	MI	BLH19850403KR	20.4	223.1
WGRD-FM	FM	250B Grand Rapids	MI	BLH19880321KE	18.0	167.1
WFGF	FM	254A Grand Rapids	MI	BMLH20050714ABA	8.8	1.2
WJQK	FM	257A Zeeland	MI	BLH19920316KA	26.0	234.2
WBCH-FM	FM	261A Hastings	MI	BMLH20040629AAF	50.1	136.5
WTRV	FM	263A Walker	MI	BLH20060602AAJ	7.7	334.2
WQXC-FM	FM	265A Allegan	MI	BLH20140624AAO	49.8	185.7
WBFX	FM	267B Grand Rapids	MI	BMLH20130607ABB	29.4	70.6
WMRR	FM	269B1 Muskegon Heights	MI	BLH19940902KB	63.0	305.0
WMUK	FM	271B Kalamazoo	MI	BLD20140522AFS	61.2	167.0
WYBR	FM	272C3 Big Rapids	MI	BLH19921112KE	81.6	6.6
WFUR-FM	FM	275B Grand Rapids	MI	BLH19890911KD	0.0	0.0
WVGR	FM	281B Grand Rapids	MI	BMLD20080306ABQ	36.0	157.0
WSNX-FM	FM	283B Muskegon	MI	BLH19880930KC	38.7	316.1
WSRW-FM	FM	289B Grand Rapids	MI	BLH20071129AJD	36.0	157.0
WGLM-FM	FM	292A Lakeview	MI	BLH20120918ADH	61.3	34.9
WVFM	FM	293B Kalamazoo	MI	BLH20060726ANY	55.8	161.6
WOOD-FM	FM	295B Muskegon	MI	BLH20000410ACJ	43.9	314.5
WMUS	FM	300B1 Muskegon	MI	BLH19970609KB	63.0	305.0

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EXHIBIT I (continued)

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WLAV-FM	FM	245B Grand Rapids	MI	Proposed	0.0	0.0
WTNR	FM	233B Holland	MI	BLH19840309AR	24.1	243.3
WHTS	FM	287B Coopersville	MI	BLH20060516ACU	43.2	336.3
WBBL-FM	FM	297B Greenville	MI	BLH19891122KB	29.4	75.5
WJRW	AM	1340 GRAND RAPIDS	MI	BL19800925AI	0.2	180.0

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WLCM	AM	1390 HOLT	MI	BL20081212ACX	80.5	121.9
WNWZ	AM	1410 GRAND RAPIDS	MI	BML20121115AIQ	7.1	58.5
WBCH	AM	1220 HASTINGS	MI	BML20040629ADF	50.1	136.5
WOOD	AM	1300 GRAND RAPIDS	MI	BL20030930BEY	22.2	171.1
WGVU	AM	1480 KENTWOOD	MI	BL20061002CAF	13.9	151.9
WYGR	AM	1530 WYOMING	MI	BL19810819BH	4.9	233.6
WMFN	AM	640 ZEELAND	MI	BL19941014AE	26.0	234.2
WVHF	AM	1140 KENTWOOD	MI	BML20130315AEL	19.8	95.6
WTKG	AM	1230 GRAND RAPIDS	MI	BL19810511AN	4.9	21.3
WPRR	AM	1680 ADA	MI	BL19990331DC	19.8	95.6
WFUR	AM	1570 GRAND RAPIDS	MI	BL	0.1	65.6
WPNW	AM	1260 ZEELAND	MI	BL19981110AA	41.1	233.4
WHTC	AM	1450 HOLLAND	MI	BL19850703AC	37.7	242.2
WBRN	AM	1460 BIG RAPIDS	MI	BL20080604ADJ	80.8	12.5
WION	AM	1430 IONIA	MI	BL20090814ABJ	50.3	83.3
WGLM	AM	1380 GREENVILLE	MI	BL20030122AGC	42.7	57.7
WMJH	AM	810 ROCKFORD	MI	BL19960625AF	20.7	28.0
WGVS	AM	850 MUSKEGON	MI	BL19860604AD	50.1	293.9
WGHN	AM	1370 GRAND HAVEN	MI	BL	44.3	282.4
WKBZ	AM	1090 MUSKEGON	MI	BL20000410ACI	57.7	308.6

Distance and bearing calculations from coordinates: 42-57-13 N, 085-41-55 W

Duopoly Options:

TV: Not Included

FM: 3.16 mV/m (70 dBu); Include NCE

AM: 5.0 mV/m

Stations more than 92 km from the common area were excluded.

AFFIDAVIT AND QUALIFICATIONS OF CONSULTANT

State of Georgia)
St. Simons Island) ss:
County of Glynn)

R. STUART GRAHAM, being duly sworn, deposes and says that he is an officer of Graham Brock, Inc. Graham Brock has been engaged by Radio License Holding CBC, LLC to prepare the attached Technical Exhibit.

His qualifications are a matter of record before the Federal Communications Commission. He has been active in Broadcast Engineering since 1979.


The attached report was either prepared by him or under his direction and all material and exhibits attached hereto are believed to be true and correct.

This the 30th day of August 2017.



R. Stuart Graham
Affiant

*Sworn to and subscribed before me
this the 30th day of August 2017*



Notary Public, State of Georgia
My Commission Expires: March 12, 2019