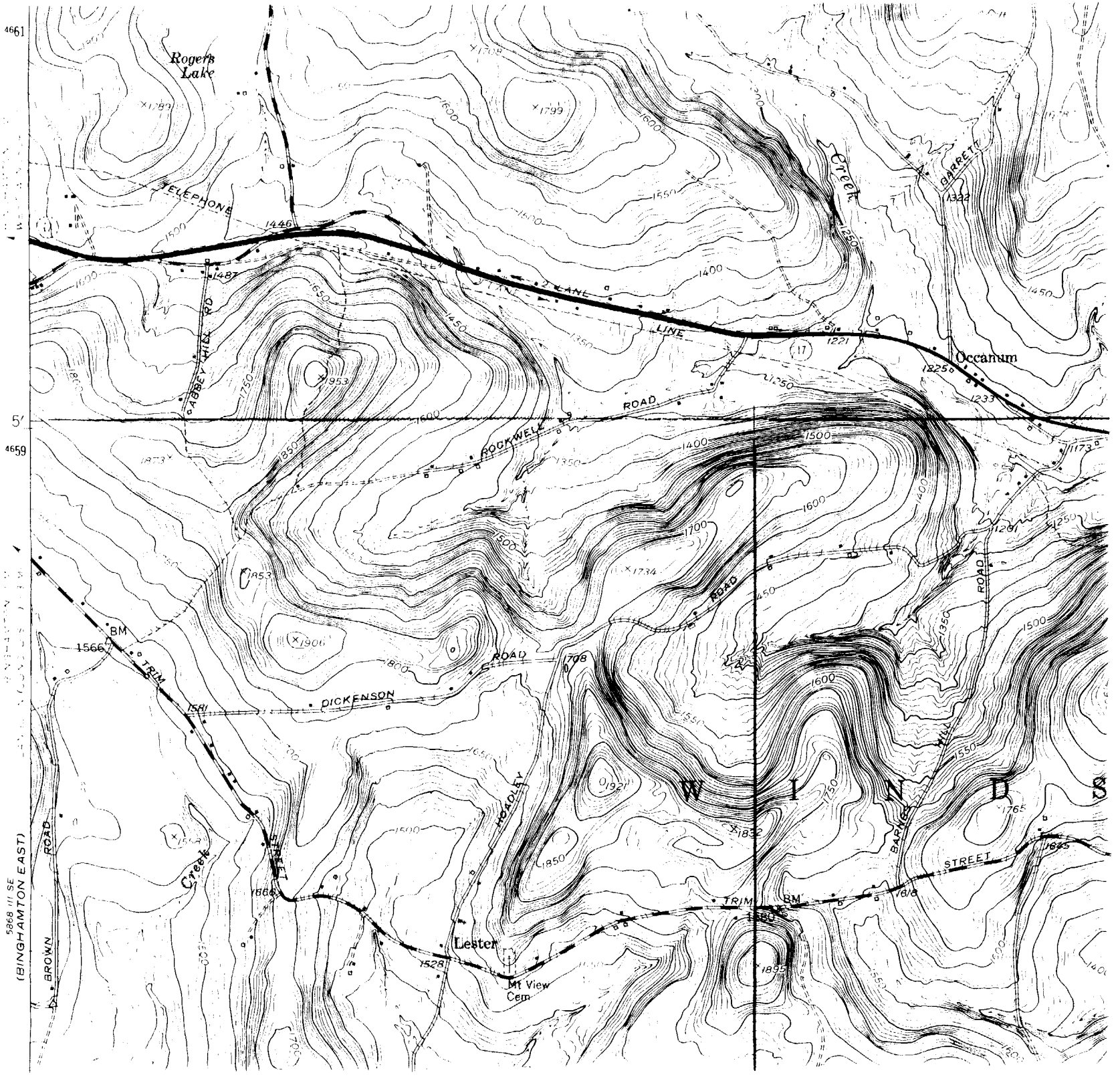
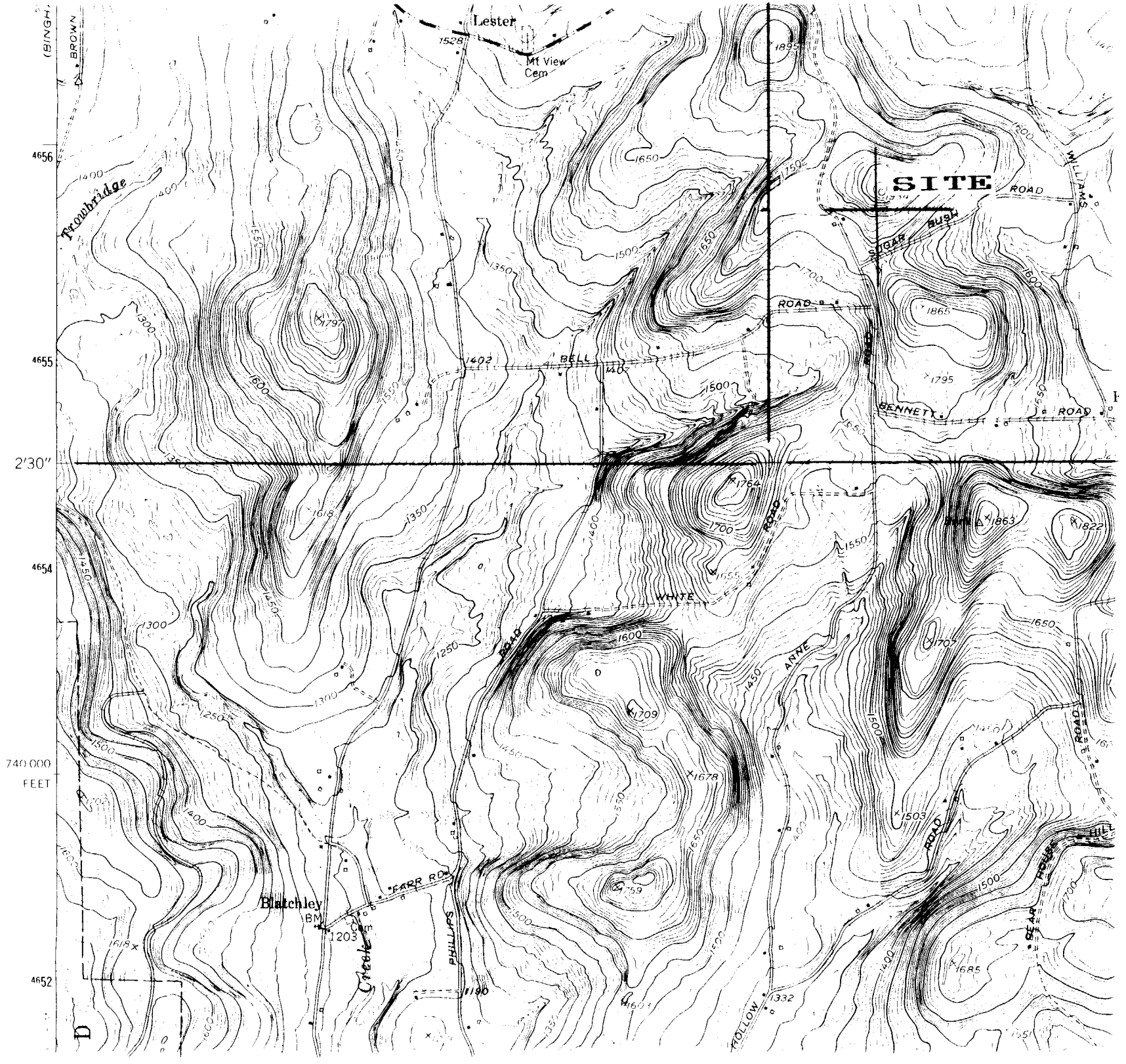
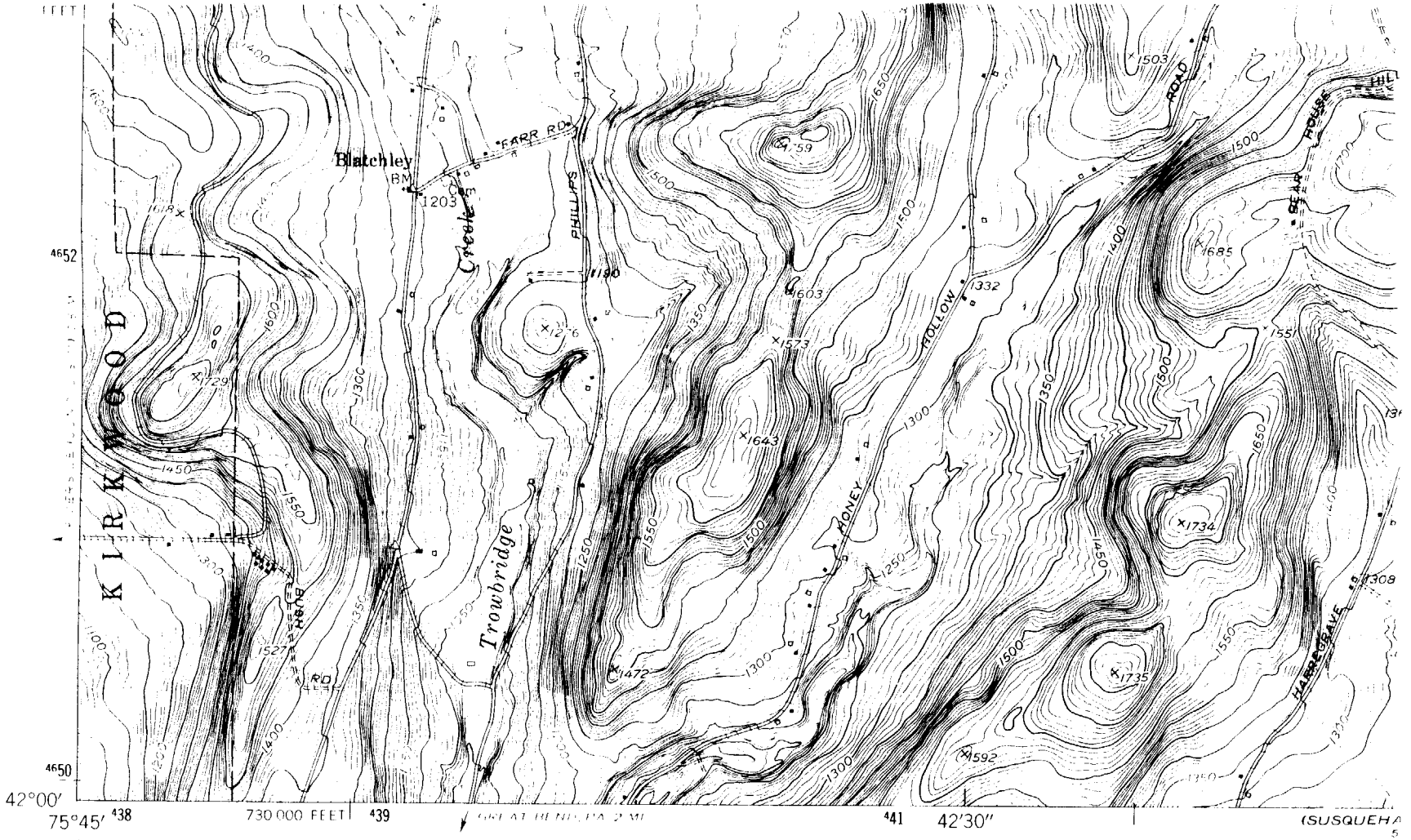

Rogers Lake
TELEPHONE
LANE
LINE
ROAD
ABBEY HILL RD
ROCKWELL
DICKENSON
ROAD
TRIM
HOADLEY
STREET
BARRETT
Creek
Occanum
Lester
Mt View Cem
BROWN
ROAD
BM
W I N D S
4661
4659
5'
5868 III SE
(BINGHAMTON EAST)


Lester
Mt View Cem
SITE
SUGAR BUSH ROAD
WILLIAMS ROAD
BELL ROAD
BENNETT ROAD
WHITE ROAD
ANNE ROAD
FARR RD
PHILLIPS ROAD
Blatchley
BM
Creek
HOLLOW
BEAR HILL
Trowbridge
BROWN
(BINGH.
4656
4655
4654
4652
2'30"
740 000
FEET
D



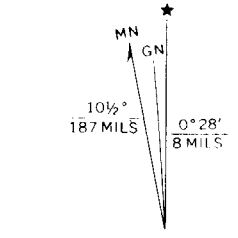
(MONTROSE 1:62 500)
586 I V

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, USCE, and New York State Survey

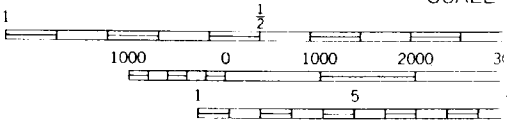
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1948. Field check 1952

Polyconic projection. 1927 North American datum
10,000-foot grid based on New York coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue



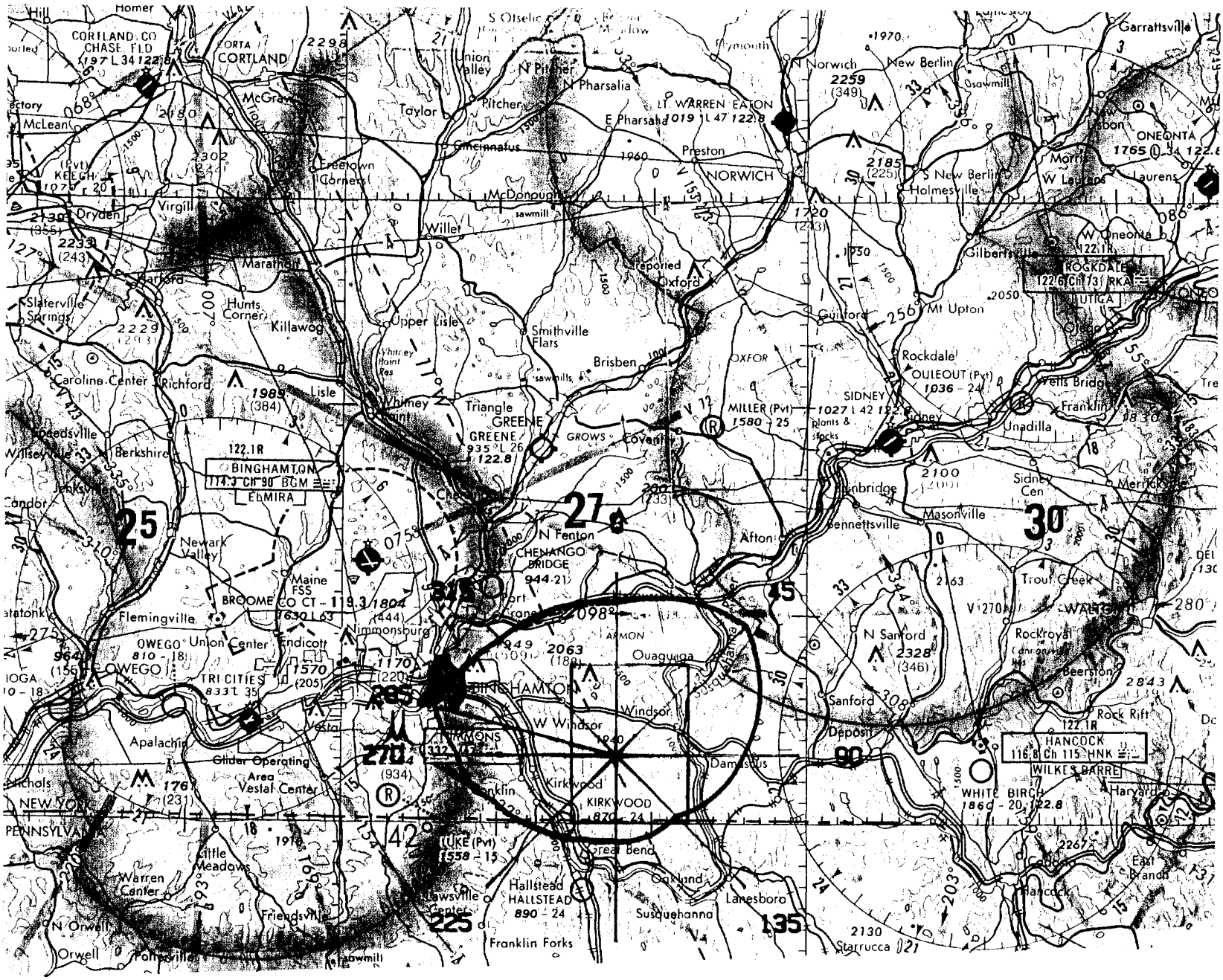
UTM GRID AND 1952 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE



CONTOUR INT
DATUM IS ME

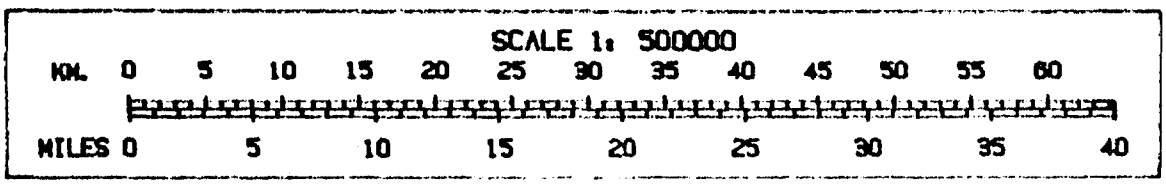
THIS MAP COMPLIES WITH NATIC
FOR SALE BY U. S. GEOLOGICAL
A FOLDER DESCRIBING TOPOGRAPHIC MAPS



180

Exhibit E-4
Arrowhead Ministries, Inc.
Binghamton, NY
60 dBu Service Contour

New York Sectional
Aeronautical Chart
1:500,000 Scale



NEW BINGHAMTON NY ; ED-44 1813T 1813C 112092
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 211

AZIMUTH	ERP, KW.	HAAT (M)	70/50%	60/50%	40/10%	54/10%	80/10%	100/10%	67.4/10%
0	.1	161.24	7.3373	13.627	43.686	19.877	3.9241	.58321	8.665
45	.1	247.2	9.4525	16.237	52.909	25.333	4.6582	.63398	11.198
90	.03721	175.26	5.9388	11.303	36.009	15.327	2.9869	.36434	6.9516
135	.00625	217.33	3.8286	7.552	26.409	11.342	1.5526	.15526	4.6072
180	.00625	212.14	3.7945	7.4633	26.112	11.206	1.5465	.15465	4.5681
225	.009	249.33	4.5255	9.1861	30.384	13.219	1.9306	.19027	5.4908
270	.05776	224.95	7.5271	13.996	44.955	20.769	3.7762	.47469	9.0339
315	.1	185.32	7.9141	14.548	46.364	21.831	4.2125	.60619	9.5864
150	.00625	219.61	3.8439	7.5916	26.54	11.403	1.5552	.15552	4.6246
155	.00625	220.37	3.8489	7.6048	26.585	11.423	1.5561	.15561	4.6306
160	.00625	221.14	3.8541	7.6182	26.628	11.443	1.557	.1557	4.6364
165	.00625	221.9	3.8592	7.6315	26.672	11.463	1.5579	.15579	4.6422
170	.00625	222.66	3.8644	7.6447	26.715	11.483	1.5588	.15588	4.6479
175	.00625	217.4	3.8291	7.5533	26.414	11.344	1.5526	.15526	4.6079
185	.00625	216.28	3.8217	7.534	26.348	11.315	1.5513	.15513	4.5993
190	.00625	220.41	3.8492	7.6054	26.586	11.424	1.5562	.15562	4.6307
195	.00625	224.54	3.8769	7.6779	26.823	11.533	1.561	.1561	4.6626
200	.00625	228.67	3.9051	7.7511	27.061	11.642	1.5659	.15659	4.6946
250	.02401	228.6	5.9219	11.536	36.959	15.56	2.8118	.3069	7.0296
255	.031923	238.97	6.5656	12.639	40.636	17.97	3.1192	.35666	7.7878
260	.03721	244.45	6.9683	13.227	42.606	19.208	3.3149	.38653	8.2638
265	.05041	227.08	7.2913	13.656	43.866	20.065	3.6112	.44418	8.694
275	.07744	223.42	8.1042	14.81	47.593	22.463	4.1503	.54901	9.8476
280	.09025	243.23	9.073	15.779	51.417	24.531	4.4997	.60162	10.816
285	.1	255.73	9.6178	16.6	53.636	25.698	4.6998	.63501	11.37
290	.1	271.88	9.934	17.288	55.022	26.39	4.7823	.63695	11.698
295	.1	254.82	9.6001	16.56	53.557	25.658	4.6953	.6349	11.351
300	.1	216.72	8.6716	15.377	49.581	23.633	4.4354	.62074	10.415
305	.1	209.1	8.4705	15.176	48.704	23.195	4.3797	.61717	10.214
	AREAS, Sq. Km. :		136.38	464.09	4900.1	1024.4	33.989	.60943	194.21

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 209.09 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .08 MILES, .12 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-5 - Figure 1
Arrowhead Ministries, Inc.
Binghamton, NY
Tabulation Of Contour Calculations

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

PROJECT TITLE: NEW BINGHAMTON NY ¦ 112592 ¦ ED-43 1813T

N LAT: 420310
W LNG: 754207

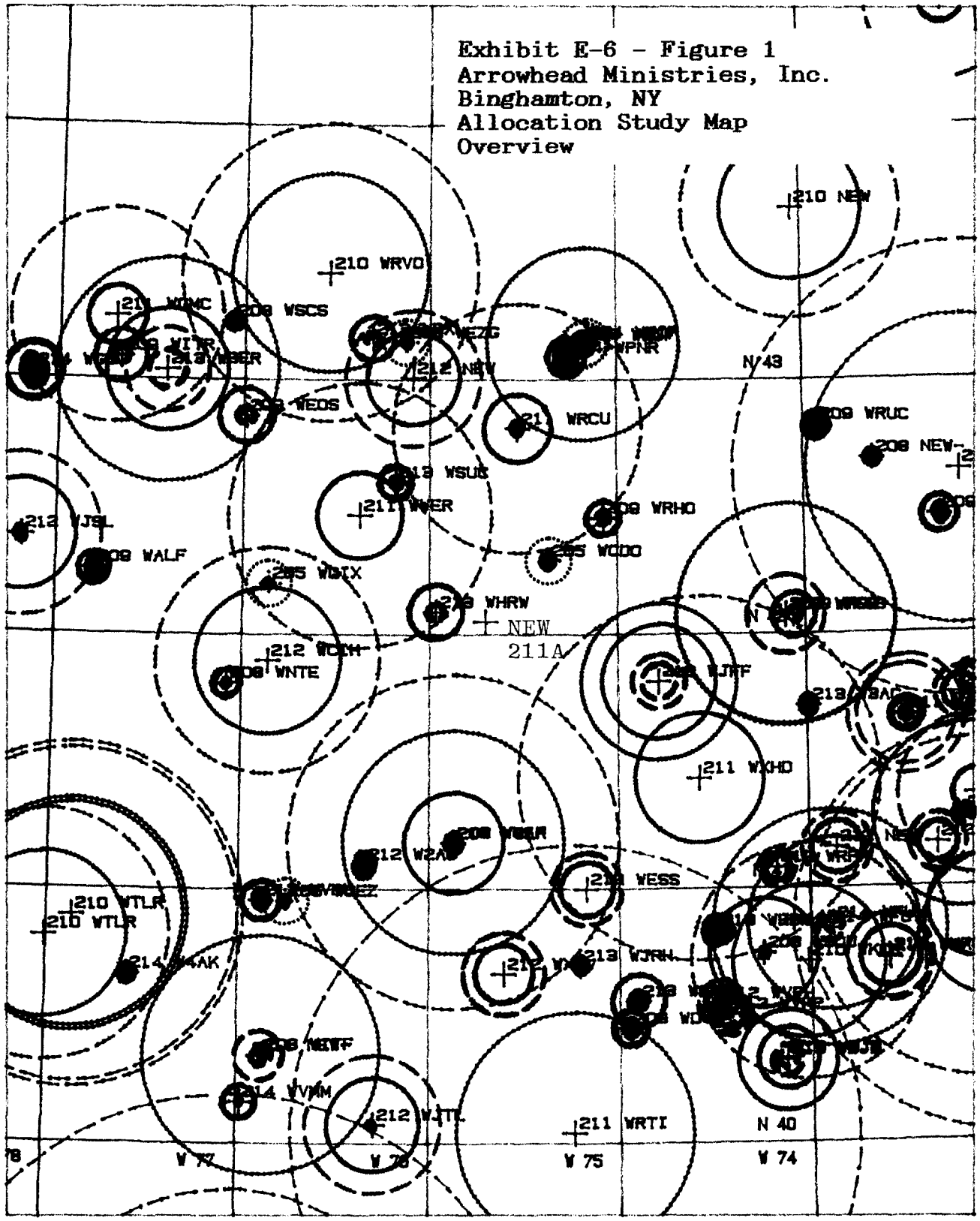
BEARING DEG.		2-10 MI. ELEVATION METERS	FEET
0		458	1501
45		372	1219
90		443	1455
135		402	1317
180		407	1334
225		370	1212
270		394	1292
315		433	1422
250		390	1280
255		380	1246
260		374	1228
265		392	1285
275		395	1297
280		376	1232
285		363	1191
290		347	1138
295		364	1194
300		402	1319
305		418	1370
	AVERAGE	410	1344
	AVERAGE	410	1344

Exhibit E-5 - Figure 3
Arrowhead Ministries, Inc.
Binghamton, NY
Calculation Of Average Terrain

HDG	TERR	HAAT
0	1501	529
45	1219	811
90	1455	575
135	1317	713
180	1334	696
225	1212	818
270	1292	738
315	1422	608
ALL	1344	686

MIN ELEV = 886
MAX ELEV = 1801

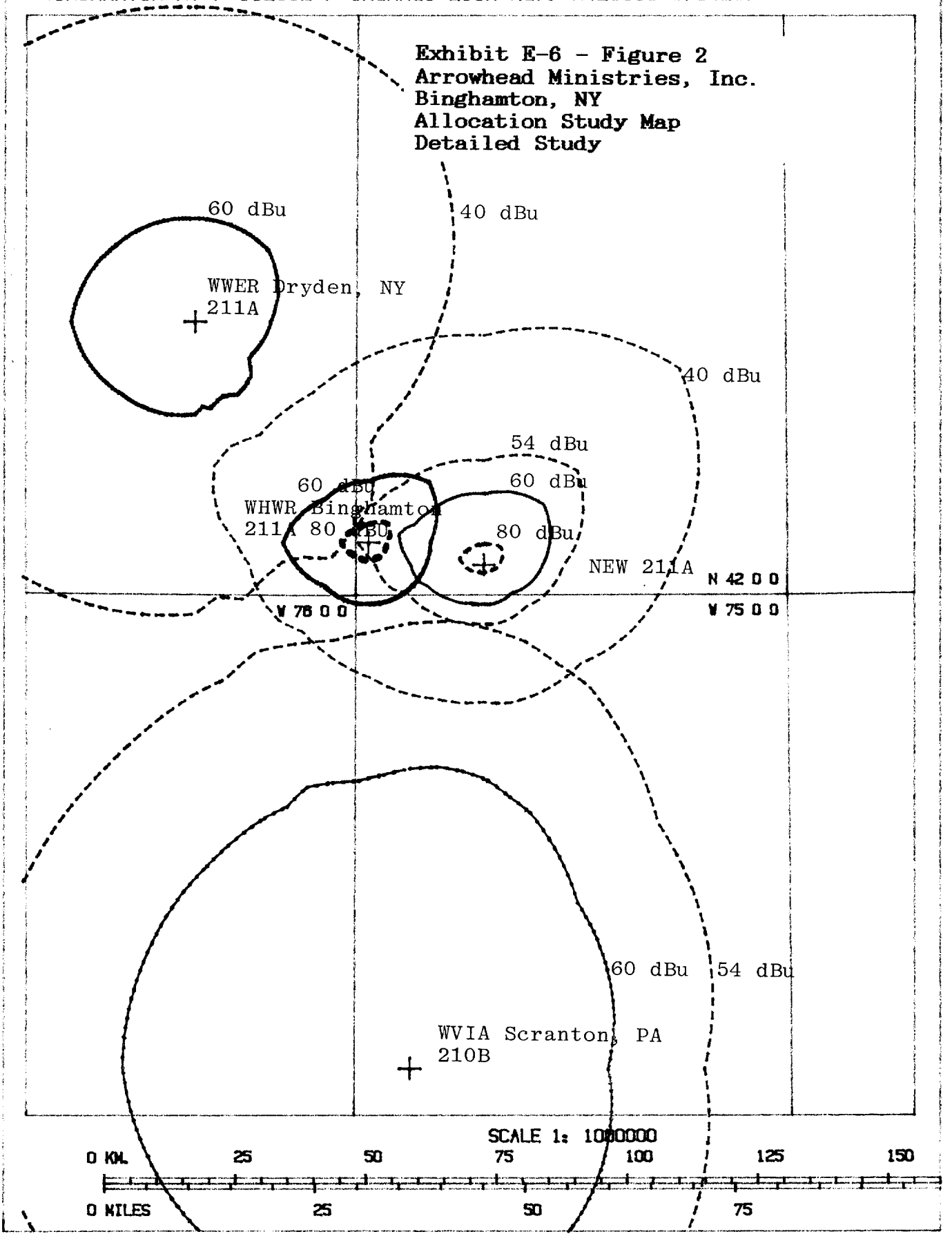
BINGHAMTON NY | 112092 | CHANNEL 211A REF. N420310 W754207



SCALE OF MILES 2500000

0 20 40 60 80 100 120 140 160 180 200

BINGHAMTON NY | 112592 | Channel 211A Ref. N420310 W754207



IDENTIFICATION OF FACILITIES AND CONTOURS ON ALLOCATION MAP

BINGHAMTON NY | 112092 |

REFERENCE POINT: N LAT 42-03-10 W LNG 75-42-07

Exhibit E-6 - Figure 3
Arrowhead Ministries, Inc.
Binghamton, NY
Identification Of Facilities

EDUCATIONAL FM ALLOCATION STUDY FOR CHANNEL 211 A
(FREQUENCY 90.1 MHZ.)

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES	
208B	WPKN	Bridgeport CT	B CP	140.76	226.53	111.54	10	168	PC1mv/m=24.965mi.	INTF100mv/m=2.4897mi.
208B	WPKN	Bridgeport CT	B LI	140.76	226.53	111.54	10	168	PC1mv/m=24.965mi.	INTF100mv/m=2.4897mi.
208A	WSOU	South Orange NJ	A LI	117.7	189.41	139.67	2	113	PC1mv/m=14.906mi.	INTF100mv/m=1.3241mi.
208D	WSCS	Sodus NY	D LI	106.75	171.79	320.07	.01	0	PC1mv/m=1.9759mi.	INTF100mv/m=-1.2762mi.
208D	WEW-	Troy NY	D AP	114.73	184.64	66.854	.01	0	PC1mv/m=1.9759mi.	INTF100mv/m=-1.2762mi.
208B	WUNY	Utica NY	B LI	79.916	128.61	19.298	6.3	237	PC1mv/m=26.189mi.	INTF100mv/m=2.4688mi.
208A	NEW	Bethlehem TowPA	A AP	97.256	156.51	168.27	0	20		
208D	W8AI	Easton PA	D CP	98.611	158.69	164.81	0	0		
208B	WITF	Harrisburg PA	B LI	132.56	213.33	207.6	5.9	415	PC1mv/m=32.42mi.	INTF100mv/m=2.8069mi.
208A	WNTE	Mansfield PA	A LI	72.744	117.07	256.88	.11	-104	PC1mv/m=3.6361mi.	INTF100mv/m=-.42953mi.
208D	W8AF	Nanticoke, etPA	D LI	60.683	97.659	188.24	.01	0	PC1mv/m=1.9759mi.	INTF100mv/m=-1.2762mi.
209A	WTBR	Pittsfield MA	A LI	127.56	205.28	76.428	.38	-35	PC1mv/m=4.9476mi.	INTF10mv/m=1.6342mi.
209A	WDVR	Delaware TownNJ	A CP	113.27	182.29	159.84	0	92		
209A	WDVR	Delware TownsNJ	A CP	117.5	189.09	160.2	.11	53	PC1mv/m=4.6965mi.	INTF10mv/m=1.5634mi.
209A	WQHF	Freehold TownNJ	A CP	146.64	235.99	150.92	0	0		
209A	WALF	Alfred NY	A LI	107.99	173.79	278.14	.2	-6	PC1mv/m=4.214mi.	INTF10mv/m=1.4076mi.
209D	W9AF	Cortland NY	D LI	45.095	72.573	326.83	0	0		
209A	WEOS	Geneva NY	A LI	86.105	138.57	310.71	1.5	-2	PC1mv/m=7.4016mi.	INTF10mv/m=2.2091mi.
209A	WITR	Henrietta NY	A LI	123.06	198.04	306.16	.91	38	PC1mv/m=7.1128mi.	INTF10mv/m=2.1176mi.
209B	WFGB	Kingston NY	B AP	82.033	132.01	88.323	3.1	453	PC1mv/m=29.889mi.	INTF10mv/m=10.648mi.
209B	WFGB	Kingston NY	B LI	82.017	131.99	88.485	3.1	460	PC1mv/m=30.116mi.	INTF10mv/m=10.77mi.
209A	WRHO	Oneonta NY	A LI	42.572	68.512	48.779	.27	-4	PC1mv/m=4.557mi.	INTF10mv/m=1.5136mi.
209A	WRUC	Schenectady NY	A LI	104.9	168.82	59.09	.1	-27	PC1mv/m=3.5516mi.	INTF10mv/m=1.1828mi.
209D	W9AJ	Vestal NY	D LI	18.109	29.143	280.03	0	0		
209D	WFGB	West SaugertiNY	D AP	84.146	135.41	88.43	.67	0	PC1mv/m=5.9432mi.	INTF10mv/m=1.8345mi.
210A	NEW	Litchfield CT	A AP	131.04	210.88	98.14	.1	55	PC1mv/m=4.6912mi.	INTF.5mv/m=7.0197mi.
210A	NEW	Torrington CT	A AP	134.54	216.52	96.131	.1	-72	PC1mv/m=3.5516mi.	INTF.5mv/m=5.0098mi.
210D	WOAP	East Windham NY	D LI	81.833	131.69	75.453	0	0		
210B1	WKCR	New York NY	B1LI	127.53	205.23	136.07	.63	433	PC1mv/m=20.947mi.	INTF.5mv/m=32.209mi.
210C3	NEW	North Creek NY	C3AP	139.86	225.08	36.254	.2	608	PC1mv/m=19.302mi.	INTF.5mv/m=29.856mi.
210B	WRVO	Oswego NY	B LI	103.68	166.85	335.95	24	131	PC1mv/m=26.875mi.	INTF.5mv/m=40.372mi.
210B	WVIA	Scranton PA	B LI	60.735	97.743	188.33	5	381	PC1mv/m=30.26mi.	INTF.5mv/m=45.375mi.
210B	WTLR	State CollegePA	B AP	137.85	221.84	235.1	25	178	PC1mv/m=30.499mi.	INTF.5mv/m=45.224mi.
210B1	WTLR	State CollegePA	B1LI	147.11	236.75	235.08	10	134	PC1mv/m=22.593mi.	INTF.5mv/m=34.225mi.
210B	WTLR	State CollegePA	B CP	137.85	221.84	235.1	25	199	PC1mv/m=31.684mi.	INTF.5mv/m=46.824mi.
211A	WLNV	Derby CT	A LI	142.11	228.70	108.81	.1	104	PC1mv/m=6.765mi.	INTF.1mv/m=21.816mi.
211D	W1AB	Germantown, eCT	D LI	124.89	200.99	109.31	0	0		
211A	WRIC	Shelton CT	A LI	142.11	228.70	108.81	.1	104	PC1mv/m=6.765mi.	INTF.1mv/m=21.816mi.
211A	WGSK	South Kent CT	A LI	117.54	189.16	102.08	.28	-60	PC1mv/m=4.5986mi.	INTF.1mv/m=16.18mi.

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES	
211A	WGSK	South Kent CT	A CP	117.47	189.04	102.11	.15	-38	PC1mv/m=3.911mi.	INTF.1mv/m=13.67mi.
211D	W1AI	Stamford CT	D AP	131.17	211.09	121.3	0	0		
211D	W1AI	Stamford CT	D CP	131.17	211.09	121.3	0	0		
211A	WECS	Willimantic CT	A LI	181.61	292.27	96.935	.43	116	PC1mv/m=9.8966mi.	INTF.1mv/m=32.968mi.
211B1	WDCU	Washington DC	B1LI	224.37	361.08	198.48	6.8	137	PC1mv/m=20.817mi.	INTF.1mv/m=58.682mi.
211B	WDCU	Washington DC	B CP	224.37	361.08	198.48	50	138	PC1mv/m=31.278mi.	INTF.1mv/m=84.554mi.
211A	WNER	Dryden NY	A CP	44.649	71.855	309.92	.15	253	PC1mv/m=11.662mi.	INTF.1mv/m=35.985mi.
211A	WGMC	Greece NY	A LI	130.62	210.21	309.8	2.05	14	PC1mv/m=7.9669mi.	INTF.1mv/m=29.04mi.
211A	WRCU	Hamilton NY	A LI	53.014	85.317	9.2985	1.9	47	PC1mv/m=9.1831mi.	INTF.1mv/m=33.861mi.
211D	W1AE	Mayville, etcNY	D LI	195.98	315.39	275.35	0	0		
211A	WXHD	Mount Hope NY	A CP	72.151	116.11	125.97	1.8	172	PC1mv/m=17.558mi.	INTF.1mv/m=49.562mi.
211B1	WUSB	Stony Brook NY	B1LI	155.07	249.56	119.62	4	69	PC1mv/m=13.849mi.	INTF.1mv/m=46.028mi.
211B1	WUSB	Stony Brook NY	B1AP	161.52	259.94	120.36	4	155	PC1mv/m=19.538mi.	INTF.1mv/m=55.27mi.
211D	NEW-	Harrisburg, ePA	D AP	133.3	214.52	207.79	.01	0	PC1mv/m=1.9759mi.	INTF.1mv/m=6.6679mi.
211A	WIUP	Indiana PA	A LI	205.45	330.63	242.2	1.6	27	PC1mv/m=7.5184mi.	INTF.1mv/m=26.887mi.
211D	W1AK	Kane PA	D CP	162.56	261.61	262.05	.01	0	PC1mv/m=1.9759mi.	INTF.1mv/m=6.6679mi.
211B	WRTI	Philadelphia PA	B LI	141.06	227.01	169.96	12	308	PC1mv/m=32.548mi.	INTF.1mv/m=78.046mi.
211A	WSRU	Slippery RockPA	A LI	235.34	378.74	254.54	.11	107	PC1mv/m=7.0605mi.	INTF.1mv/m=22.838mi.
211D	W1AF	Warren PA	D LI	177.5	285.65	266.82	0	0		
211A	WRUV	Burlington VT	A LI	209.62	337.35	36.08	.46	44	PC1mv/m=6.3704mi.	INTF.1mv/m=20.932mi.
212A	WWPT	Westport CT	A LI	137.13	220.68	115.61	.33	39	PC1mv/m=5.3593mi.	INTF.5mv/m=7.6678mi.
212A	WVHP	Highland ParkNJ	A LI	125.93	202.66	147.84	.15	21	PC1mv/m=3.911mi.	INTF.5mv/m=5.7435mi.
212A	WRPR	Mahwah NJ	A LI	103.7	166.88	129.9	.1	-20	PC1mv/m=3.5516mi.	INTF.5mv/m=5.0098mi.
212A	WVPH	Piscataway NJ	A LI	122.07	196.45	148.11	.2	2	PC1mv/m=4.214mi.	INTF.5mv/m=6.2641mi.
212D	WKNJ	Union TownshiNJ	D LI	121.85	196.09	140.83	0	5		
212B	WAMC	Albany NY	B LI	135.84	218.61	71.814	10	600	PC1mv/m=42.017mi.	INTF.5mv/m=61.934mi.
212B1	WCIH	Elmira NY	B1AP	60.584	97.500	259.94	7	122	PC1mv/m=19.964mi.	INTF.5mv/m=30.626mi.
212B1	WCIH	Elmira NY	B1LI	60.584	97.500	259.94	7	122	PC1mv/m=19.964mi.	INTF.5mv/m=30.626mi.
212A	WBAU	Garden City NY	A LI	143.12	230.32	129.27	1.1	48	PC1mv/m=8.2761mi.	INTF.5mv/m=11.972mi.
212A	WHPC	Garden City NY	A LI	142.67	229.60	129.19	.5	65	PC1mv/m=8.078mi.	INTF.5mv/m=11.581mi.
212B1	WJSL	Houghton NY	B1LI	129.06	207.70	280.87	6	66	PC1mv/m=15.022mi.	INTF.5mv/m=22.1mi.
212D	WHCR	New York NY	D LI	124.61	200.54	132.62	0	81		
212A	NEW	Ossining NY	A AP	113.55	182.74	122.35	1.25	21	PC1mv/m=7.0717mi.	INTF.5mv/m=9.5803mi.
212A	NEW	Syracuse NY	A AP	68.832	110.77	343.29	.5	161	PC1mv/m=12.625mi.	INTF.5mv/m=18.472mi.
212D	W2AG	Berwick, etc.PA	D LI	73.815	118.79	206.73	.01	0	PC1mv/m=1.9759mi.	INTF.5mv/m=2.8177mi.
212D	NEW-	Catawissa, etPA	D AP	85.531	137.64	206.16	0	0		
212A	WESS	East StroudsbPA	A LI	77.759	125.14	159.22	1.4	-50	PC1mv/m=7.2768mi.	INTF.5mv/m=9.7854mi.
212B1	WJTL	Lancaster PA	B1LI	140.19	225.61	192.77	4.5	55	PC1mv/m=12.683mi.	INTF.5mv/m=18.633mi.
212D	W2AE	Mansfield PA	D LI	74.211	119.43	256.5	0	0		
212A	WXLV	SchnecksvillePA	A CP	95.924	154.37	177.16	.67	54	PC1mv/m=7.8711mi.	INTF.5mv/m=11.124mi.
212A	WXLV	SchnecksvillePA	A LI	95.924	154.37	177.16	.9	49	PC1mv/m=7.995mi.	INTF.5mv/m=11.37mi.
213A	WCVH	Flemington NJ	A CP	111.24	179.02	157.92	.07	137	PC1mv/m=7.2256mi.	INTF10mv/m=2.0074mi.
213A	WCVH	Flemington NJ	A LI	111.24	179.02	157.92	.07	137	PC1mv/m=7.2256mi.	INTF10mv/m=2.0074mi.
213B1	WBJB	Lincroft NJ	B1CP	144.78	233.00	145.17	11	41	PC1mv/m=13.569mi.	INTF10mv/m=4.0749mi.
213A	WBJB	Lincroft NJ	A LI	144.38	232.35	144.98	2.25	32	PC1mv/m=8.2587mi.	INTF10mv/m=2.5048mi.
213A	WJSV	Morristown NJ	A LI	105	168.98	142.8	.12	5	PC1mv/m=3.7132mi.	INTF10mv/m=1.2272mi.
213A	WHPH	Whippany NJ	A LI	105	168.98	142.8	.12	5	PC1mv/m=3.7132mi.	INTF10mv/m=1.2272mi.
213A	WBXL	BaldwinsvilleNY	A LI	82.729	133.13	338.15	.19	59	PC1mv/m=6.0007mi.	INTF10mv/m=1.8587mi.
213A	WHRW	Binghamton NY	A LI	13.924	22.408	280.76	1.45	-14	PC1mv/m=7.3403mi.	INTF10mv/m=2.1881mi.
213A	WSUC	Cortland NY	A LI	45.095	72.573	326.83	.24	-31	PC1mv/m=4.4224mi.	INTF10mv/m=1.472mi.
213B1	WBER	Henrietta NY	B1LI	110.76	178.25	308.35	2.5	127	PC1mv/m=16.619mi.	INTF10mv/m=5.1164mi.
213D	W3AC	Hyde Park, EtNY	D LI	90.914	146.31	104.19	.01	0	PC1mv/m=1.9759mi.	INTF10mv/m=.34983mi.

Exhibit E-6 - Figure 3
Arrowhead Ministries, Inc.
Binghamton, NY
Identification Of Facilities
Page Two

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES	
213A	WJFF	JeffersonvillNY	A LI	49.877	80.269	108.88	.83	189	PC1mv/m=15.59mi.	INTF10mv/m=4.7361mi.
213B1	WJFF	JeffersonvillNY	B1CP	49.877	80.269	108.88	3.7	192	PC1mv/m=21.283mi.	INTF10mv/m=7.3504mi.
213B1	WBER	Rochester NY	B1CP	110.76	178.25	308.35	2.5	127	PC1mv/m=16.619mi.	INTF10mv/m=5.1164mi.
213B	WBER	Rochester NY	B AP	110.76	178.25	308.35	50	127	PC1mv/m=30.396mi.	INTF10mv/m=11.412mi.
213D	WJRH	Easton PA	D LI	96.872	155.90	164.53	.01	0	PC1mv/m=1.9759mi.	INTF10mv/m=.34983mi.
213D	WVBU	Lewisburg PA	D LI	97.32	156.62	219.17	.46	-37	PC1mv/m=5.2627mi.	INTF10mv/m=1.7017mi.
214D	W4AM	Albany, etc. NY	D CP	95.238	153.27	64.737	0	0		
214A	WGCC	Batavia NY	A LI	141.08	227.04	299.07	.89	42	PC1mv/m=7.4006mi.	INTF100mv/m=.48967mi.
214A	WGCC	Batavia NY	A CP	141.08	227.04	299.07	.88	50	PC1mv/m=8.0363mi.	INTF100mv/m=.61282mi.
214D	W4AA	Corning NY	D LI	71.022	114.29	275.48	0	0		
214D	W4AH	Jefferson HeiNY	D LI	93.294	150.14	82.703	0	0		
214B	WFUV	New York NY	B LI	125.22	201.52	130.59	50	66	PC1mv/m=23.513mi.	INTF100mv/m=2.484mi.
214B	WFUV	New York NY	B AP	125.28	201.61	131.3	50	150	PC1mv/m=32.231mi.	INTF100mv/m=3.6803mi.
214A	WPNR	Utica NY	A LI	75.072	120.81	16.764	.43	-46	PC1mv/m=5.1407mi.	INTF100mv/m=.051837mi.
214D	W4AL	Denver, etc. PA	D CP	122.15	196.58	192.33	0	0		
214A	WEW	Ephrata PA	A AP	122.15	196.58	192.33	0	0		
214A	WVMM	Grantham PA	A CP	146.78	236.21	207.45	.1	50	PC1mv/m=4.4322mi.	INTF100mv/m=-.16314mi.
214D	W4AK	Lewistown PA	D CP	136.72	220.02	225.92	.01	0	PC1mv/m=1.9759mi.	INTF100mv/m=-1.2762mi.
214A	WCLB	Wilkes-Barre PA	A LI	60.687	97.666	188.4	.17	311	PC1mv/m=13.601mi.	INTF100mv/m=.18277mi.
264A	WEIF	Utica NY	A AP	79.831	128.47	19.33	1.15	168	REQUIRED SEPARATION 9.9km/6.1826mi	
264A	WEIF	Utica NY	A CP	80.855	130.12	19.778	.67	201	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WQIX	Horseheads NY	A LI	60.278	97.008	280.13	3	75	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WEZG	North SyracusNY	A AP	78.968	127.08	344.05	6	50	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WEZG	North SyracusNY	A LI	78.968	127.08	344.05	3	50	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WCDO	Sidney NY	A LI	23.845	38.374	45.844	.97	173	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WCDO	Sidney NY	A AP	23.845	38.374	45.844	1.9	176	REQUIRED SEPARATION 9.9km/6.1826mi	
265A	WOEZ	Milton PA	A LI	93.386	150.29	215.89	.64	210	REQUIRED SEPARATION 9.9km/6.1826mi	

Exhibit E-6 - Figure 3
Arrowhead Ministries, Inc.
Binghamton, NY
Identification Of Facilities
Page Three

WVIA SCRANTON PA ; ED-43 WVIAT WVIAC ; 112592
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 210

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	54/10%
0	5	537 37	57.632	85.512
45	5	315.47	45.089	66.786
90	5	205.44	37.834	56.152
135	5	285.6	43.34	63.93
180	5	295.66	43.958	64.879
225	5	404.78	50.014	74.936
270	5	484.94	54.56	81.563
315	5	485.25	54.578	81.586
5	5	550.17	58.212	86.324
10	5	543.47	57.907	85.899
15	5	530.05	57.249	85.004
20	5	500.18	55.46	82.717
25	5	477.63	54.134	81.013
330	5	497.44	55.297	82.508
335	5	497.44	55.297	82.508
340	5	531.88	57.36	85.144
345	5	521.52	56.734	84.346
350	5	510.85	56.094	83.53
355	5	519.39	56.605	84.183

AREAS, Sq. Km. : 7482.1 16551

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 376.81 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .55 MILES, .88 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-6 - Figure 4
Arrowhead Ministries, Inc.
Binghamton, NY
Tabulation Of Contour Calculations
WVIA Scranton, PA

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

PROJECT TITLE: WVIA SCRANTON PA ; ED-44 WVIAT WVIAC ; 112592

N LAT: 411055
W LNG: 755217

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	224	734
45	446	1462
90	556	1823
135	476	1560
180	465	1527
225	356	1169
270	276	906
315	276	905
5	211	692
10	218	714
15	231	758
20	261	856
25	284	930
330	264	865
335	261	855
340	229	752
345	240	786
350	250	821
355	242	793
AVERAGE	384	1261

Exhibit E-6 - Figure 5
Arrowhead Ministries, Inc.
Binghamton, NY
Terrain Averaging Program
WVIA Scranton, PA

Exhibit E-6 - Figure 6
Arrowhead Ministries, Inc.
Binghamton, NY
Calculation Of Average Terrain
WVIA Scranton, PA

HDG	TERR	HAAT
0	734	1763
45	1462	1035
90	1823	674
135	1560	937
180	1527	970
225	1169	1328
270	906	1591
315	905	1592
ALL	1261	1236

MIN ELEV = 591
MAX ELEV = 1997

Exhibit E-6 - Figure 7
Arrowhead Ministries, Inc.
Binghamton, NY
Tabulation Of Contour Calculations
WWER Dryden, NY

WWER DRYDEN NY
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 211

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	40/10%
0	.155	273.1	19.809	60.027
45	.155	268.53	19.615	59.628
90	.155	148.74	14.406	46.439
135	.155	159.11	14.819	47.611
180	.155	227.99	17.746	55.785
225	.155	269.45	19.653	59.707
270	.155	375.21	23.55	69.297
315	.155	301.76	21.029	62.554
120	.155	107.9	12.421	40.441
125	.155	108.81	12.481	40.633
130	.155	129.54	13.648	44.209
140	.155	172.52	15.35	49.289
145	.155	180.14	15.652	50.329
150	.155	194.46	16.066	52.043
155	.155	173.74	15.398	49.457
160	.155	169.17	15.217	48.832
165	.155	182.88	15.76	50.704
170	.155	209.1	16.782	53.701
175	.155	198.73	16.256	52.533

AREAS, Sq. Km. : 1139.7 1057.3

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 252.99 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .10 MILES, .16 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

WWER DRYDEN NY

N LAT: 422754
W LNG: 762223

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	358	1173
45	362	1188
90	482	1581
135	471	1547
180	403	1321
225	361	1185
270	256	838
315	329	1079
120	523	1715
125	522	1712
130	501	1644
140	458	1503
145	450	1478
150	436	1431
155	457	1499
160	461	1514
165	448	1469
170	422	1383
175	432	1417
AVERAGE:	**378**	**1239**
AVERAGE:	378	1239

Exhibit E-6 - Figure 8
Arrowhead Ministries, Inc.
Binghamton, NY
Terrain Averaging Program
WWER Dryden, NY

Exhibit E-6 - Figure 9
Arrowhead Ministries, Inc.
Binghamton, NY
Calculation Of Average Terrain
WWER Dryden, NY

HDG	TERR	HAAT
0	1173	896
45	1188	881
90	1581	488
135	1547	522
180	1321	748
225	1185	884
270	838	1231
315	1079	990
ALL	1239	830

MIN ELEV = 394
MAX ELEV = 1896

WHRW BINGHAMTON NY
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 213

Exhibit E-6 - Figure 10
Arrowhead Ministries, Inc.
Binghamton, NY
Tabulation Of Contour Calculations
WHRW Binghamton, NY

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	54/10%
0	1.45	-42.673	11.812	15.836
45	1.45	66.752	16.33	25.383
90	1.45	30.176	11.812	15.836
135	1.45	-74.982	11.812	15.836
180	1.45	-126.8	11.812	15.836
225	1.45	-56 693	11.812	15.836
270	1.45	66.142	16.253	25.297
315	1.45	26.823	11.812	15.836
120	1.45	-14.935	11.812	15.836
125	1.45	-52.731	11.812	15.836
130	1.45	-64.618	11.812	15.836
140	1.45	-78.03	11.812	15.836
145	1.45	-85.345	11.812	15.836
150	1.45	-90.527	11.812	15.836
155	1.45	-104.55	11.812	15.836
160	1.45	-118.87	11.812	15.836
165	1.45	-119.79	11.812	15.836
170	1.45	-146.31	11.812	15.836
175	1.45	-158.5	11.812	15.836

AREAS, Sq. Km. : 537.21 1095.2

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = -13.908 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .30 MILES, .47 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

WHRW BINGHAMTON

N LAT: 420524
W LNG: 755805

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	411	1348
45	302	989
90	338	1109
135	443	1454
180	495	1624
225	425	1394
270	302	991
315	341	1120
120	383	1257
125	421	1381
130	433	1420
140	446	1464
145	453	1488
150	459	1505
155	473	1551
160	487	1598
165	488	1601
170	515	1688
175	527	1728
AVERAGE:	382	1254

Exhibit E-6 - Figure 11
Arrowhead Ministries, Inc.
Binghamton, NY
Terrain Averaging Program
WHRW Binghamton, NY

Exhibit E-6 - Figure 12
Arrowhead Ministries, Inc.
Binghamton, NY
Calculation Of Average Terrain
WHRW Binghamton, NY

HDG	TERR	HAAT
0	1348	-140
45	989	219
90	1109	99
135	1454	-246
180	1624	-416
225	1394	-186
270	991	217
315	1120	88
ALL	1254	-46

MIN ELEV = 789
MAX ELEV = 1759

Exhibit E-7
Arrowhead Ministries, Inc.
Binghamton, New York
Educational FM/TV Channel 6 Interference Study

Title: 1813 - 196 | Binghamton, New York

WRGB Channel 6, Philadelphia, PA	Proposed FM Channel 211
Antenna 311 M above average terrain	Antenna 209 M above average terrain
ERP: 93.3 kw	ERP: 0.1 kw
Coordinates: 42-38-12 73-59-45	Coordinates: 42-03-10 75-42-07

FCC distance = 96.21 miles (154.83 km)

Azimuth = 64.58 degrees

WRGB 47.0 dBu F(50,50) for 311 M & 93.3 kw = 77.14 km

Proposed 67.4 dBu F(50,10) for 209 M & 0.1 kw = 10.214 km

The sum of the WRGB protected and the NEW-NCE-FM interfering contour is: 87.354 km.

Since these two contours do not overlap, it is assumed that no interference area exists.

Exhibit E-8
Arrowhead Ministries, Inc.
Binghamton, New York
Environmental Assessment
Power Density Calculation
Based On 'WORST CASE' Values From OST #65

The proposed antenna construction does not require any action covered by FCC R&R 1.1307(a). The following environmental assessment has been prepared as required by FCC R&R 1.1307(b).

The applicant proposes to operate with facilities of 100 watts effective radiated power, circular polarization, with an antenna center of radiation 46 meters above ground level.

WKGB(FM) present operates with facilities of 1.3 kilowatts effective radiated power, circular polarization, with an antenna center of radiation 52 meters above ground level.

A point that is 46 meters from the center of radiation of a 100 watt array at a vertical radiation angle of 90 degrees and including the effects of the WKGB(FM) antenna is 4.420947E-02 milliwatts per centimeter squared. The maximum allowable ANSI/FCC limit is 1.0 mW/cM squared. The expected power density at 46 meters will be 4.420947 percent of the maximum allowable under the restrictions mandated by ANSI C95.1-1982.

When visits to the site by authorized personnel require exposure to RF fields in excess of 1.0 mV/cM squared, the facility will be shut down. This will occur at 10 meters or less (36 meters above ground level) from the NEW NCE-FM 211A antenna radiation center.

I HEREBY CERTIFY THAT THE FOREGOING AMENDMENT TO THE APPLICATION OF ARROWHEAD CHRISTIAN CENTER IS TRUE AND CORRECT.

EXECUTED ON DECEMBER 10, 1992

David A. Martin

David A. Martin
Executive Director

CERTIFICATE OF SERVICE

I, Lynn M. Sabin, a secretary in the law firm of Verner, Liipfert, Bernhard, McPherson & Hand, Chartered, do hereby certify that a true and correct copy of the foregoing "Petition for Leave to Amend and Amendment" was served this 11th day of December, 1992 to the following as indicated:

Arthur I. Steinberg (HAND-DELIVERED)
Administrative Law Judge
Federal Communications Commission
2000 L Street, N.W., Room 228
Washington, D.C. 20054

Robert Zauner, Esquire (HAND-DELIVERED)
Chief, Hearing Branch
Mass Media Bureau
Federal Communications Commission
2025 M Street, N.W., Room 7212
Washington, D.C. 20554

Chief, Data Management Staff (FIRST CLASS MAIL)
Audio Services Division
Mass Media Bureau
Federal Communications Commission
1919 M Street, N.W., Room 350
Washington, D.C. 20554

Margaret L. Miller, Esquire (HAND-DELIVERED)
Dow, Lohnes & Albertson
1255 - 23rd Street, N.W., Suite 500
Washington, D.C. 20037
Attorney for WSKG Public Telecommunications

Lynn M. Sabin

Lynn M. Sabin