| CHAN | CALL | CITY AND STATE | | CL | TYP | N LAT | W LNG | D(km) | D(mi) | AZIMUTH | ERP | HAAT(M) | REQ'D SEP., KM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 278C | WEZL | Charleston | SC | C | CP | 32-48-55 | 79-50-10 | 472.89 | 293.84 | 161.49 | 100 | 301 | 225.5 km. |
| 278A | WMTY | Greenwood | SC | A | DE | 34-09-46 | 82-11-41 | 307.62 | 191.15 | 192.95 | 0 | 0 | 114.5 km. |
| 278C3 | WMTY | Greenwood | SC | C3 | AD | 34-09-28 | 82-07-42 | 306.89 | 190.69 | 191.82 | 0 | 0 | 141.5 km. |
| 278A | | Greenwood | SC | A | AS | 34-11-36 | 82-09-30 | 303.6 | 188.65 | 192.48 | 0 | 0 | 114.5 km. |
| 278A | WMTY | Greenwood | SC | A | LI | 34-09-46 | 82-11-41 | 307.62 | 191.15 | 192.95 | 3 | 100 | 114.5 km. |
| 278C | WIMZ | Knoxville | TN | C | LI | 36-08-06 | 83-43-29 | 219.88 | 136.63 | 248.93 | 100 | 524 | 225.5 km. (SHORT-5.6) |
| 278A | | Marion | VA | A | AD | 36-54-28 | 81-23-25 | 6.6071 | 4.1055 | 46.189 | 0 | 0 | 114.5 km. (SHORT-107.9) |
| 279A | | Royston | GA | A | AS | 34-17-18 | 83-06-30 | 323.41 | 200.96 | 208.19 | 0 | 0 | 71.5 km. |
| 279A | WBIC | Royston | GA | A | LI | 34-16-50 | 83-07-09 | 324.63 | 201.72 | 208.28 | 3 | 100 | 71.5 km. |
| 279C3 | WBIC | Royston | GA | C3 | AD | 34-19-59 | 83-12-17 | 323.23 | 200.85 | 209.99 | 0 | 0 | 88.5 km. |
| 279A | WBIC | Royston | GA | A | DE | 34-16-50 | 83-07-09 | 324.63 | 201.72 | 208.28 | 0 | 0 | 71.5 km. |
| 279A | | Frankfort | KY | A | AS | 38-12-48 | 84-54-16 | 340.41 | 211.52 | 297.19 | 0 | 0 | 71.5 km. |
| 279A | NEW | Frankfort | KY | A | AP | 38-13-17 | 84-54-52 | 341.58 | 212.25 | 297.26 | 3 | 100 | 71.5 km. |
| 279A | NEW | Frankfort | KY | A | AP | 38-13-17 | 84-54-52 | 341.58 | 212.25 | 297.26 | 2.5 | 109 | 71.5 km. |
| 279A | NEW | Frankfort | KY | A | AP | 38-09-07 | 84-51-04 | 333.32 | 207.12 | 296.46 | 3 | 90 | 71.5 km. |
| 279A | NEW | Frankfort | KY | A | AP | 38-07-11 | 84-53-09 | 334.66 | 207.95 | 295.69 | 3 | 100 | 71.5 km. |
| 279A | NEW | Frankfort | KY | A | AP | 38-12-58 | 84-53-35 | 339.64 | 211.04 | 297.31 | 3 | 100 | 71.5 km. |
| 279C | WSOC | Charlotte | NC | C | LI | 35-15-41 | 80-43-38 | 189.46 | 117.72 | 159.95 | 99 | 320 | 164.5 km. (CLOSE 25) |
| 279A | | Fisher | WV | A | AS | 39-03-06 | 79-00-16 | 323.69 | 201.13 | 40.612 | 0 | 0 | 71.5 km. |
| 279A | NEW | Fisher | WV | A | AP | 39-05-05 | 79-01-47 | 324.97 | 201.93 | 39.892 | 6 | 100 | 71.5 km. |
| 279B | WCIR | Beckley | WV | B | LI | 37-56-51 | 81-18-32 | 120.55 | 74.906 | 5.6336 | 5 | 452 | 112.5 km. (CLOSE 8.1) |
| 280A | WPPL | Blue Ridge | GA | A | LI | 34-52-02 | 84-20-03 | 342.58 | 212.87 | 230.37 | 3 | 73 | 30.5 km. |
| 280A | WXKQ | Whitesburg | KY | A | LI | 37-04-27 | 82-48-44 | 124 | 77.05 | 281.16 | .21 | 287 | 30.5 km. |
| 280A | WWEL | London | KY | A | LI | 37-08-28 | 84-04-45 | 236.53 | 146.97 | 278.22 | 3 | 58 | 30.5 km. |
| 280C3 | WNND | Fuquay-Varina | NC | C3 | AD | 35-33-46 | 78-41-51 | 286.22 | 177.85 | 119.66 | 0 | 0 | 41.5 km. |
| 280A | WNND | Fuquay-Varina | NC | A | LI | 35-38-43 | 78-43-29 | 279.45 | 173.64 | 118.31 | 1.5 | 142 | 30.5 km. |
| 280A | WNND | Fuquay-Varina | NC | A | DE | 35-38-43 | 78-43-29 | 279.45 | 173.64 | 118.31 | 0 | 0 | 30.5 km. |
| 280A | WLWZ | Easley | SC | A | LI | 34-50-21 | 82-31-37 | 245.31 | 152.43 | 203.73 | 3 | 100 | 30.5 km. |
| 280A | WXIS | Erwin | TN | A | LI | 36-08-15 | 82-23-00 | 116.75 | 72.545 | 226.28 | 2.45 | 100 | 30.5 km. |
| 280D | WOAE | Etowah | TN | D | LI | 35-19-36 | 84-31-05 | 325.33 | 202.15 | 239.12 | 0 | 0 | |
| 280A | WDEB | Jamestown | TN | A | LI | 36-25-55 | 84-56-33 | 316.55 | 196.7 | 262.24 | 1.6 | 137 | 30.5 km. |
| 280A | WYFT | Luray | VA | A | AP | 38-38-17 | 78-24-06 | 332.47 | 206.59 | 52.707 | 6 | 92 | 30.5 km. |
| 280A | WYFT | Luray | VA | A | LI | 38-38-17 | 78-24-06 | 332.47 | 206.59 | 52.707 | 3 | 91 | 30.5 km. |
| 280A | WXCF | Clifton Forge | VA | A | AP | 37-54-12 | 79-52-15 | 180.68 | 112.27 | 49.853 | .15 | 582 | 30.5 km. |
| 280A | WXCF | Clifton Forge | VA | A | LI | 37-49-18 | 79-48-46 | 179.23 | 111.37 | 53.138 | 3 | -155 | 30.5 km. |
| 280A | WATQ | New Martinsvi | WV | A | LI | 39-40-40 | 80-52-42 | 315.93 | 196.31 | 8.8031 | 3 | 91 | 30.5 km. |
| 281A | | Clayton | GA | A | AS | 34-52-42 | 83-23-18 | 281.97 | 175.21 | 218.97 | 0 | 0 | 30.5 km. |
| 281A | WQLJ | Clayton | GA | A | CP | 34-52-23 | 83-22-35 | 281.76 | 175.08 | 218.72 | .48 | 249 | 30.5 km. |
| 281C3 | WCKG | Campbellsvill | KY | C3 | AD | 37-19-29 | 85-18-36 | 347.44 | 215.89 | 279.61 | 0 | 0 | 41.5 km. |
| 281C | WTQR | Winston-Salem | NC | C | LI | 36-22-28 | 80-22-31 | 110.1 | 68.413 | 119.53 | 100 | 433 | 94.5 km. (CLOSE 15.6) |
| 281C1 | WPAY | Portsmouth | OH | C1 | LI | 38-43-20 | 83-00-05 | 247.46 | 153.76 | 326.92 | 100 | 256 | 74.5 km. |
| 281C | WPAY | Portsmouth | OH | C | CP | 38-43-20 | 83-00-05 | 247.46 | 153.76 | 326.92 | 100 | 305 | 94.5 km. |
| 281A | | Calhoun | TN | A | AS | 35-19-11 | 84-46-39 | 345.83 | 214.89 | 241.12 | 0 | 0 | 30.5 km. |
| 281A | WDCI | Bridgeport | WV | A | CP | 39-17-59 | 80-17-30 | 288.36 | 179.18 | 20.087 | 3 | 100 | 30.5 km. |
| 281A | | Bridgeport | WV | A | AS | 39-16-48 | 80-16-54 | 286.63 | 178.1 | 20.404 | 0 | 0 | 30.5 km. |
| 224A | WABN | Abingdon | VA | A | LI | 36-43-07 | 81-56-55 | 47.952 | 29.796 | 250.03 | 1.8 | 113 | 9.5 km. (CLOSE 38.5) |
| 224D | W4AE | Wytheville | VA | D | LI | 36-54-30 | 81-04-15 | 33.576 | 20.863 | 81.938 | 0 | 0 | |
| 224A | WPMW | Mullens | WV | A | LI | 37-35-39 | 81-23-49 | 80.845 | 50.235 | 2.9331 | 1.65 | 135 | 9.5 km. |
| 225C2 | | Gray | TN | C2 | AD | 36-15-03 | 82-25-36 | 111.41 | 69.227 | 232.33 | 0 | 0 | 14.5 km. |

**Exhibit E-2 - Figure 4**
**James K. Cornick**
**Marion, Virginia**
**Identification Of Facilities**
**Shown On Allocation Study Map**

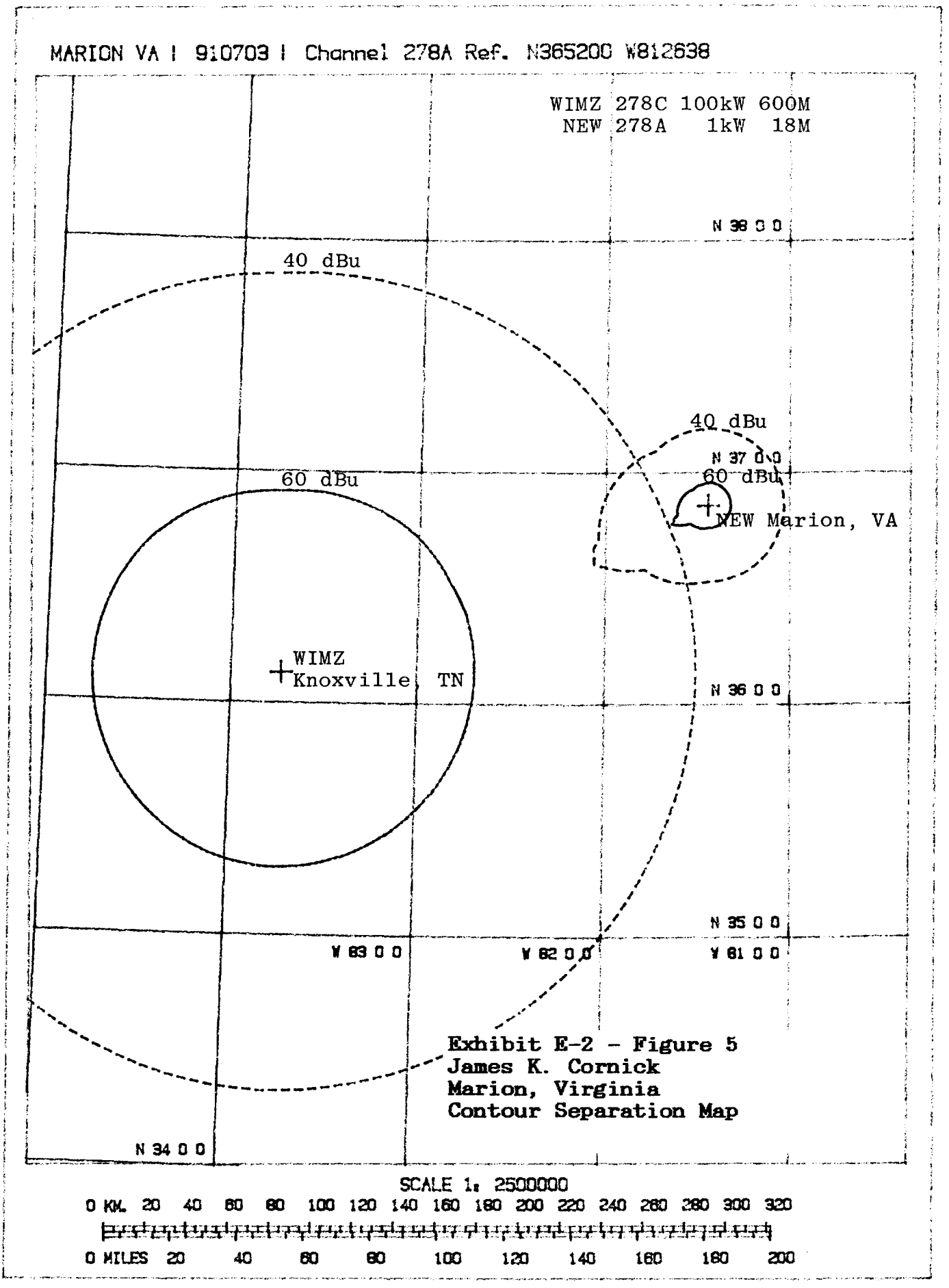


**Exhibit E-2 - Figure 5**
**James K. Cornick**
**Marion, Virginia**
**Contour Separation Map**

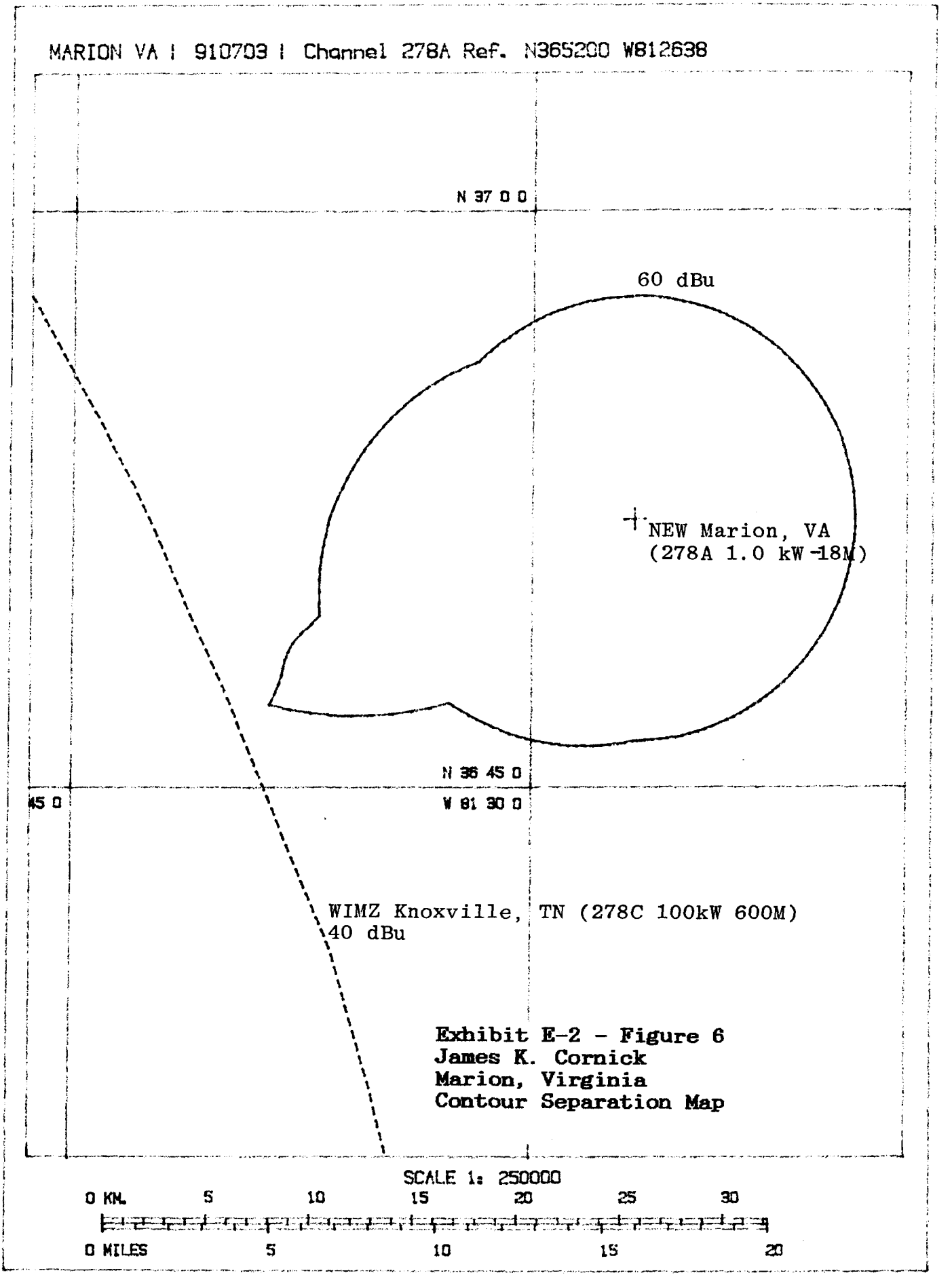


**Exhibit E-2 - Figure 6**
**James K. Cornick**
**Marion, Virginia**
**Contour Separation Map**

WIMZ KNOXVILLE TN ! ED-26 WIMZT WIMZCI ! 910703 !
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 27B

| AZIMUTH | ERP, KW. | HAAT (M) | 60/50% | 40/10% |
|---|---|---|---|---|
| 0 | 100 | 507.68 | 87.054 | 191.38 |
| 45 | 100 | 598.51 | 91.784 | 197.72 |
| 90 | 100 | 626.86 | 92.864 | 199.54 |
| 135 | 100 | 640.27 | 93.305 | 200.36 |
| 180 | 100 | 644.54 | 93.447 | 200.64 |
| 225 | 100 | 603.69 | 92.026 | 198.08 |
| 270 | 100 | 598.21 | 91.77 | 197.71 |
| 315 | 100 | 579.01 | 90.875 | 196.37 |
| 63 | 100 | 596.07 | 91.67 | 197.56 |
| 64 | 100 | 598.51 | 91.784 | 197.72 |
| 65 | 100 | 601.26 | 91.911 | 197.92 |
| 66 | 100 | 604 | 92.04 | 198.11 |
| 67 | 100 | 605.83 | 92.125 | 198.22 |
| 68 | 100 | 605.83 | 92.125 | 198.22 |
| 69 | 100 | 608.57 | 92.252 | 198.42 |
| 70 | 100 | 610.7 | 92.336 | 198.54 |
| 71 | 100 | 613.45 | 92.426 | 198.72 |
| 72 | 100 | 617.41 | 92.555 | 198.96 |
| 73 | 100 | 622.9 | 92.735 | 199.3 |

AREAS, Sq. Km. : 26395 122850

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 599.85 (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 = 2.45 MILES, 3.94 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-2 - Figure 7
James K. Cornick
Marion, Virginia
Tabulation Of Contour Calculations
WIMZ Knoxville, TN

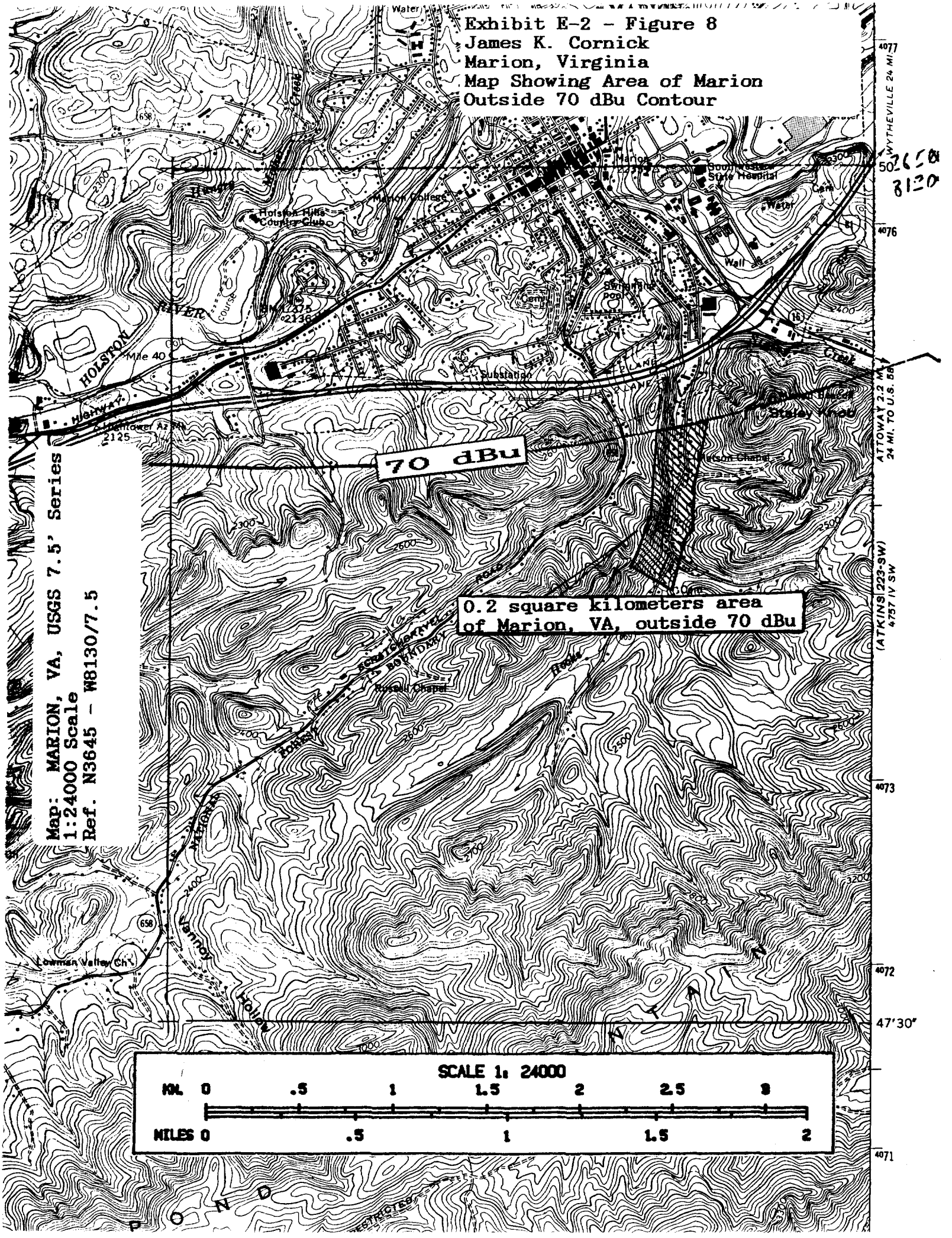
Exhibit E-2 - Figure 8
James K. Cornick
Marion, Virginia
Map Showing Area of Marion
Outside 70 dBu Contour
Map: MARION, VA, USGS 7.5' Series
1:24000 Scale
Ref. N3645 - W8130/7.5
70 dBu
0.2 square kilometers area
of Marion, VA, outside 70 dBu
SCALE 1: 24000
KM. 0 .5 1 1.5 2 2.5 3
MILES 0 .5 1 1.5 2
HOLSTON RIVER
Marion College
Holston Hills Country Club
Southwestern State Hospital
Substation
Staley Knob
Matson Chapel
Russell Chapel
Lowman Valley Ch
Vannoy Hollow
WYTHEVILLE 24 MI.
ATTOWAY 2.2 MI. 24 MI. TO U.S. 58
(ATKINS 223-SW) 4757 IV SW
47'30"

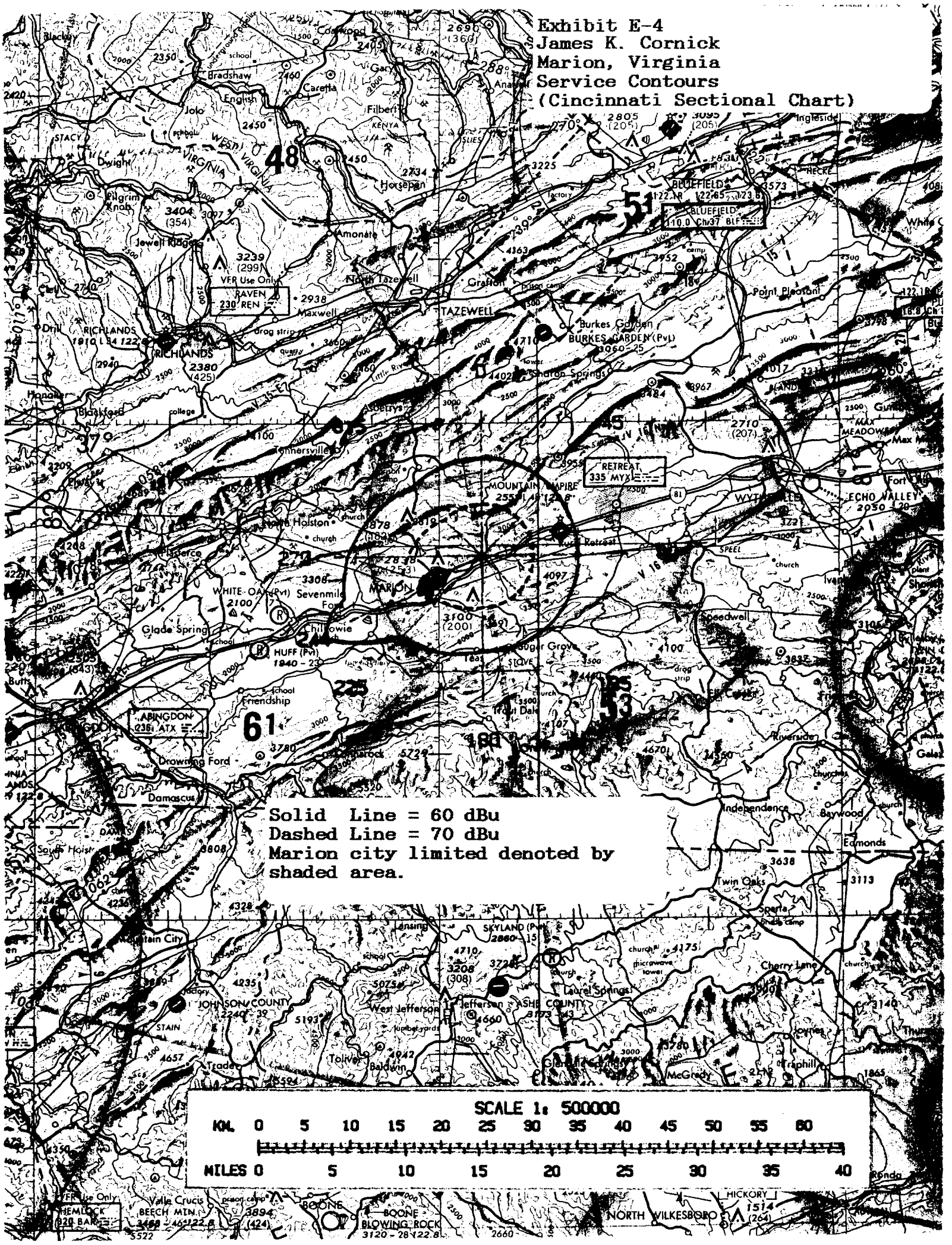
Exhibit E-4
James K. Cornick
Marion, Virginia
Service Contours
(Cincinnati Sectional Chart)
Solid Line = 60 dBu
Dashed Line = 70 dBu
Marion city limited denoted by shaded area.
SCALE 1: 500000
KM. 0 5 10 15 20 25 30 35 40 45 50 55 60
MILES 0 5 10 15 20 25 30 35 40
BLUEFIELD
RAVEN 230 REN
RETREAT 335 MYX
ABINGDON 236 ATX
MARION
TAZEWELL
RICHLANDS
BURKES GARDEN (Pvt)
WHITE OAK (Pvt)
HUFF (Pvt)
SKYLAND (Pvt)
JOHNSON COUNTY
ASHE COUNTY
BOONE
BLOWING ROCK
NORTH WILKESBORO
HICKORY

Exhibit E-5
James K. Cornick
Marion, Virginia
Tabulation Of Contour Calculations

NEW MARION VA ¦ ED-26 2040T 2040C2 ¦ 910703 ¦
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 278

| AZIMUTH | ERP, KW. | HAAT (M) | 70/50% | 60/50% | 40/10% |
|---|---|---|---|---|---|
| 0 | 1 | 15.24 | 5.7154 | 10.73 | 36.698 |
| 45 | 1 | -44.806 | 5.7154 | 10.73 | 36.698 |
| 90 | 1 | -7.3153 | 5.7154 | 10.73 | 36.698 |
| 135 | 1 | -127.71 | 5.7154 | 10.73 | 36.698 |
| 180 | 1 | -102.72 | 5.7154 | 10.73 | 36.698 |
| 225 | 1 | 44.501 | 6.6746 | 12.58 | 43.808 |
| 270 | 1 | 61.266 | 8.0668 | 14.772 | 51.316 |
| 315 | 1 | 20.117 | 5.7154 | 10.73 | 36.698 |
| 243 | 1 | 110.34 | 11.306 | 19.776 | 62.037 |
| *244 | 1 | 106.99 | 11.084 | 19.351 | 61.409 |
| 245 | 1 | 103.94 | 10.883 | 18.965 | 60.828 |
| 246 | 1 | 101.5 | 10.722 | 18.656 | 60.354 |
| 247 | 1 | 99.671 | 10.602 | 18.424 | 59.995 |
| 248 | 1 | 97.842 | 10.481 | 18.192 | 59.629 |
| 249 | 1 | 95.708 | 10.34 | 17.922 | 59.2 |
| 250 | 1 | 92.965 | 10.159 | 17.574 | 58.636 |
| 251 | 1 | 88.698 | 9.8773 | 17.033 | 57.742 |
| 252 | 1 | 83.821 | 9.5555 | 16.415 | 56.688 |
| 253 | 1 | 78.335 | 9.1934 | 15.899 | 55.458 |

AREAS, Sq. Km. : 120.02 419.13 4961

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = -17.678 (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 = .25 MILES, .39 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

*244 degrees: radial over Marion

Exhibit E-6
James K. Cornick
Marion, Virginia
Statement Why Environmental Assessment Is Not Required

The proposed construction does not require any action covered by Section 1.1307 of the Commission's Rules.

As further evidence that the antenna construction complies with "ANSI" standards regarding human exposure to non-ionizing radiation, the following is shown:

POWER DENSITY CALCULATION FOR

MARION, VIRGINIA

BASED ON "WORST CASE" VALUES FROM OST #65

The antenna center of radiation ("C/R") is 91 meters above ground level. A point that is 91 meters (300 feet) from the C/R of a 1,000 Watt array at a vertical radiation angle of 90 degrees is 8.069009E-03 milliwatts per centimeter squared. The maximum allowable ANSI/FCC limit is 1.0 mW/cm squared. The expected power density at 91 meters will be 0.8069009 percent of the maximum allowable under the restrictions mandated by ANSI C95.

The facility will be shut down when equipment maintenance would require workers to be exposed to levels of non-ionizing radiation in excess of 1.0 mW/cm squared. This would occur at a distance of less than 8 meters from the antenna radiation center, such as when workers must climb the tower in excess of 83 meters above ground level.

## SECTION VI – EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees? ☐ Yes ☐ No

   If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

## SECTION VII – CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580? ☐ Yes ☐ No

2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose? ☐ Yes ☐ No

   If No, attach as an Exhibit, a full explanation. Exhibit No.

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

   Name of Person Contacted _____

   Telephone No. *(include area code)* _____

   Person contacted: *(check one box below)*

   ☐ Owner ☐ Owner's Agent ☐ Other *(specify)*

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.**
**U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

| Name of Applicant | Signature |
|---|---|
| James Killinger Cornick | |
| **Date** | **Title** |
| July 25, 1991 | |

**FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT**

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 71 hours 45 minutes to 301 hours 30 minutes with an average of 118 hours 28 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

**THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(eX3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.**