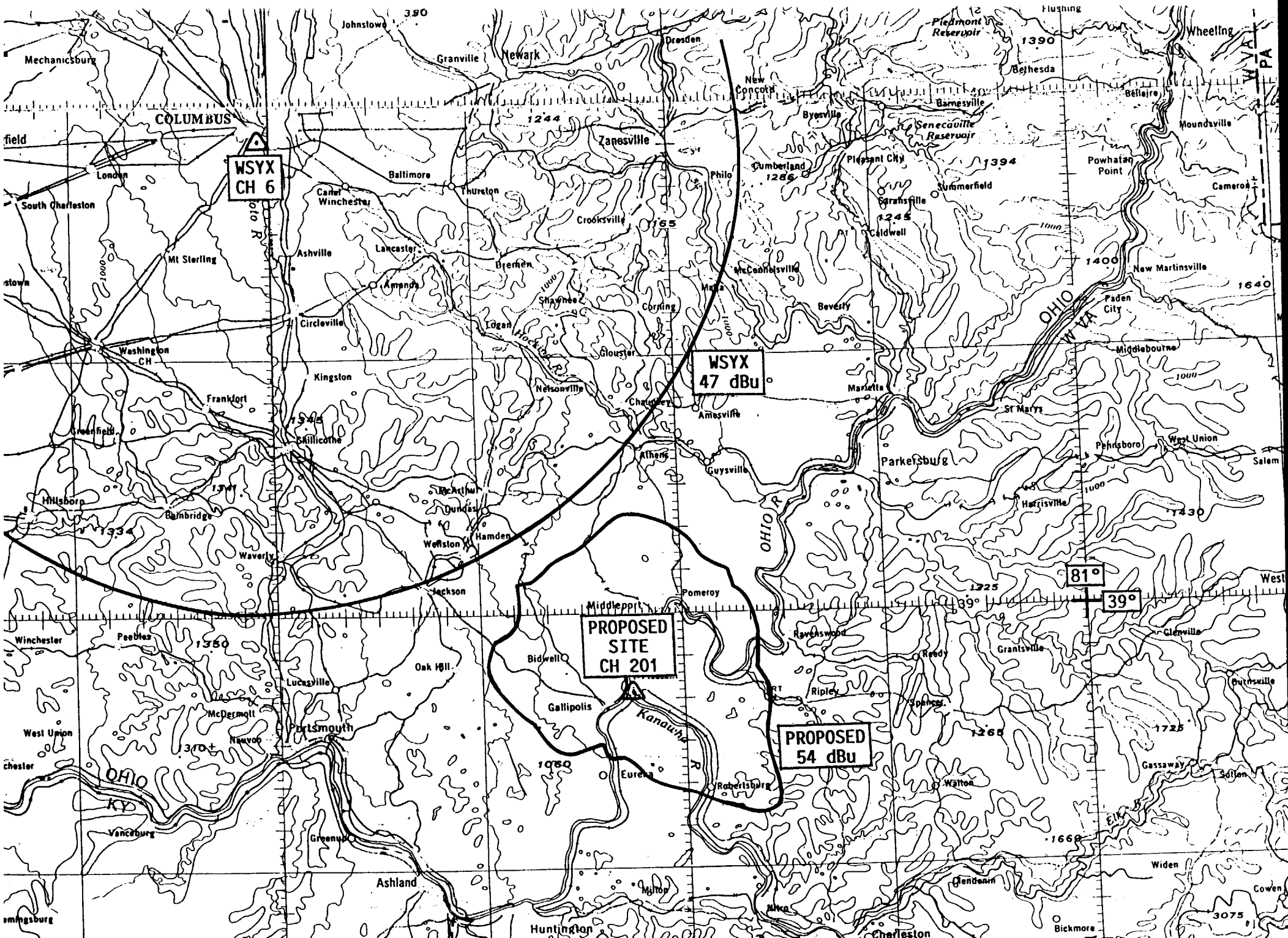
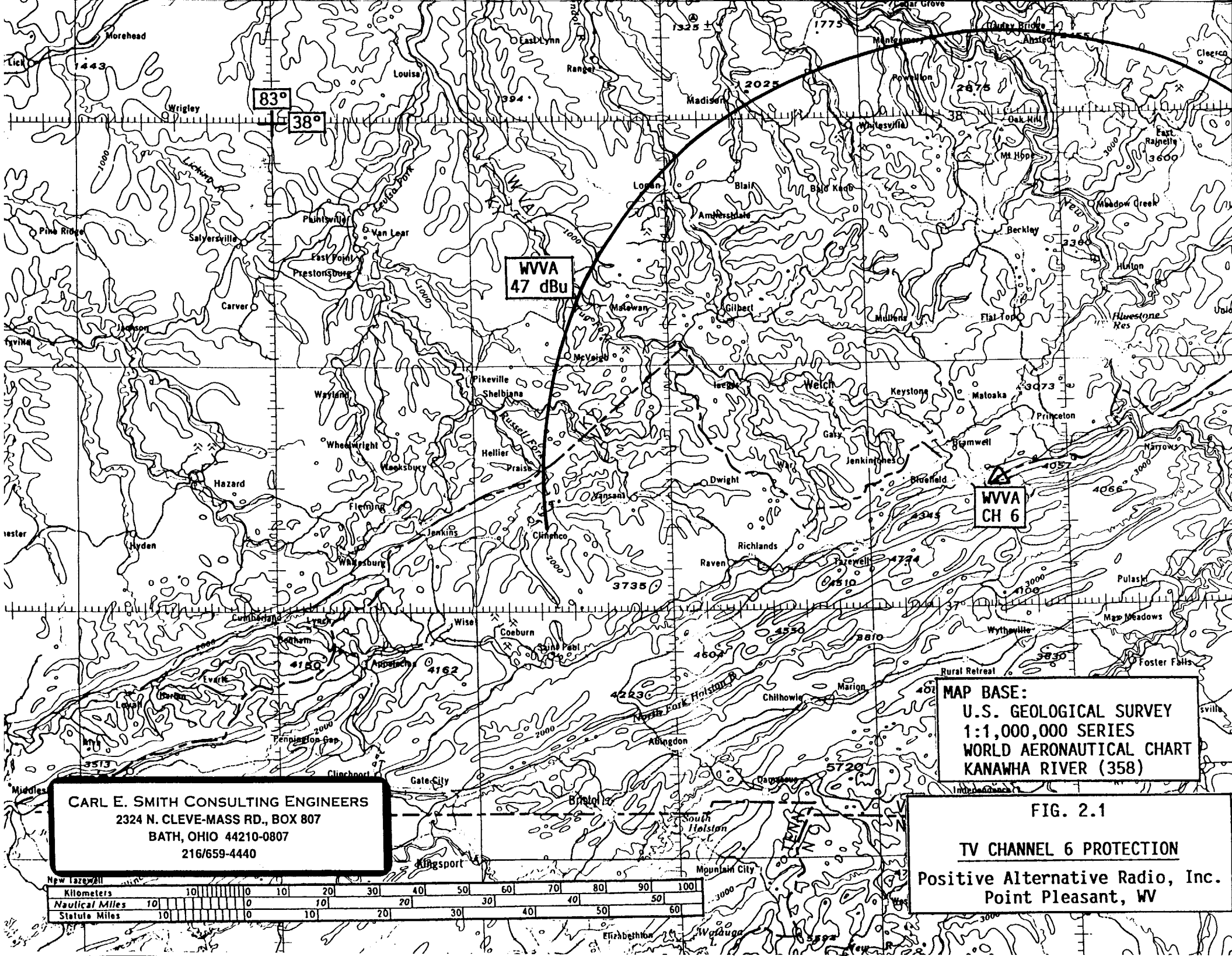

WSYX
CH 6
WSYX
47 dBu
PROPOSED
SITE
CH 201
PROPOSED
54 dBu
81°
39°
COLUMBUS
Zanesville
Newark
Wheeling
Parkersburg
Portsmouth
Huntington
Ashland
Chillicothe
Athens
Marietta
Gallipolis
Pomeroy
Ripley
Kanawha R
OHIO R
OHIO
KY
WVA
PA



MAP BASE:
U.S. GEOLOGICAL SURVEY
1:1,000,000 SERIES
WORLD AERONAUTICAL CHART
KANAWHA RIVER (358)

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BATH, OHIO 44210-0807
216/659-4440

FIG. 2.1

TV CHANNEL 6 PROTECTION

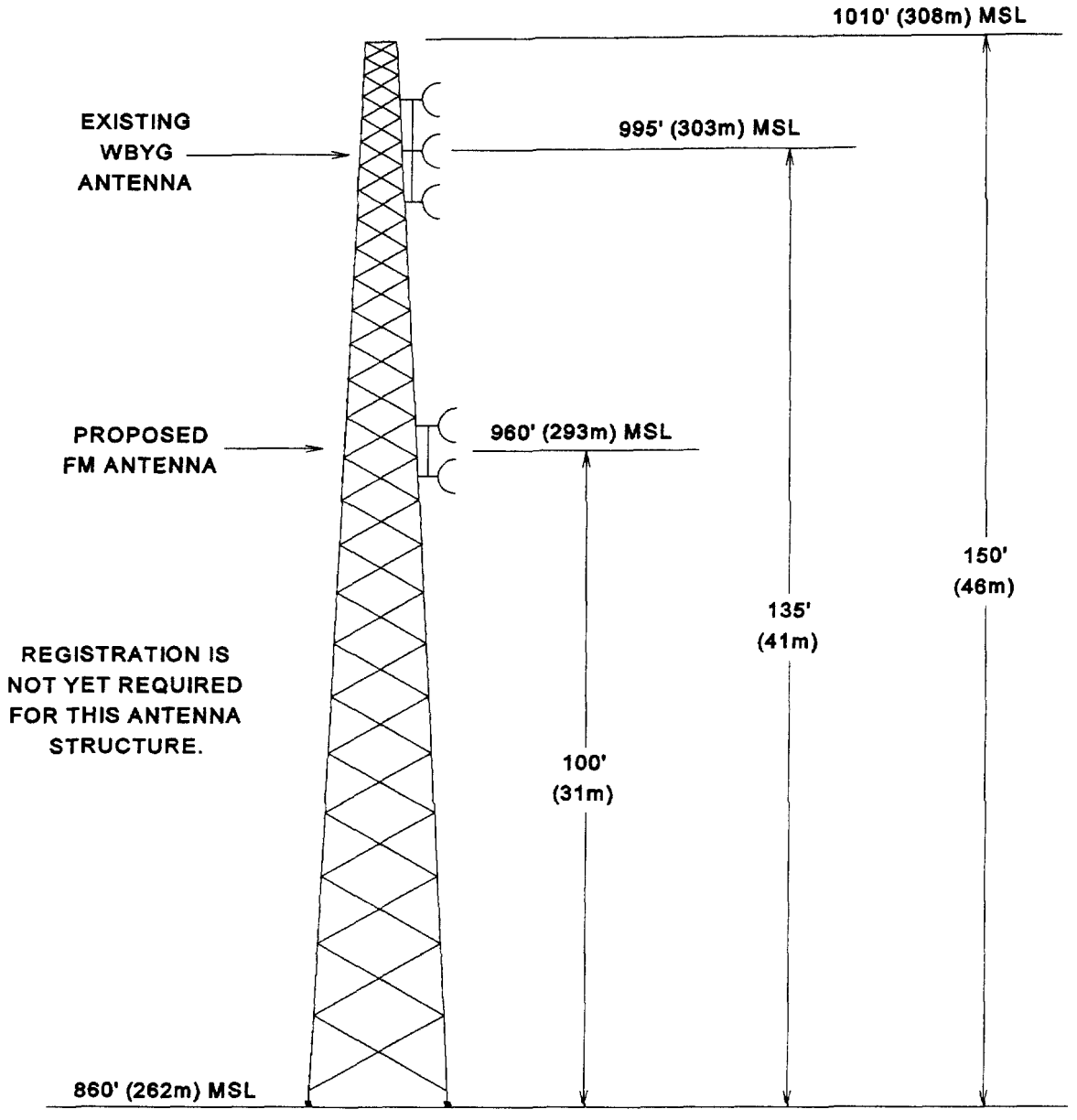
Positive Alternative Radio, Inc.
Point Pleasant, WV

3.0 PROPOSED ANTENNA SYSTEM

The proposed antenna will be a Jampro JSCP-2(DA) two bay circularly polarized directional antenna that will be mounted at the 31 meter level on an existing 46 meter tower that presently supports the antenna for WBYG(FM). Figure 3.0 is a vertical plan view of the proposed installation. It should be noted that registration of this antenna structure is not required by the FCC until November of 1997.

Table 3.1 presents a tabulation of the proposed directional pattern. This pattern is shown in polar form by Figure 3.1. Finally Table 3.2 and Figure 3.2 present the vertical radiation pattern for this antenna. It should be noted that the directional pattern shown herein is a composite envelope, or idealized pattern. When final patten modeling is completed by the antenna manufacturer, both the horizontally polarized and vertically polarized directional patterns will be totally encompassed within this envelope. No other antennas will be mounted within or in close proximity to the aperture of this antenna. Furthermore, there will be no platform or other similar structure mounted at the top of this tower which could possibly distort the directional pattern of this antenna. The maximum effective radiated power in both the horizontal and vertical polarizations will be 3 kilowatts. The maximum pattern suppression does not exceed the 15 dB value permitted by Section 73.316 of the FCC Rules. Furthermore, the slope does not exceed 2 dB/10 degrees at any point on this pattern.

PARIVP11 7/11/97



REGISTRATION IS NOT YET REQUIRED FOR THIS ANTENNA STRUCTURE.

NOT TO SCALE

NL - 38° 50' 49"

WL - 82° 07' 50"

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(216) 659-4440

FIG. 3.0

VERTICAL PLAN VIEW

POSITEIVE ALTERNATIVE RADIO, INC.
POINT PLEASANT, WV

TABLE 3.1

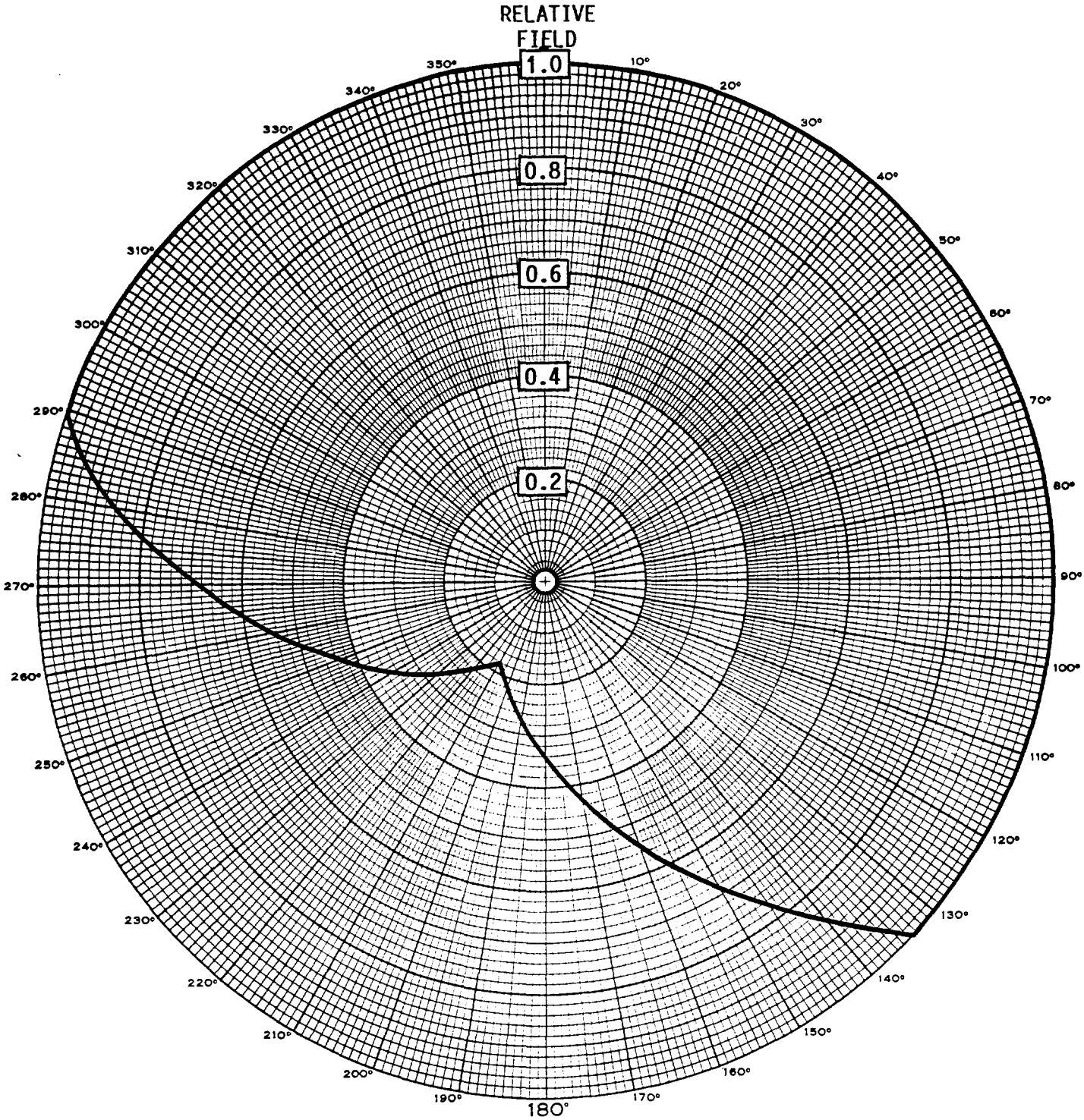
PROPOSED DIRECTIONAL PATTERN
Positive Alternative Radio, Inc.
Point Pleasant, WV

Azimuth (Degrees)	Relative Field	ERP (dBk)	ERP (kW)
0	1.000	4.77	3.00
10	1.000	4.77	3.00
20	1.000	4.77	3.00
30	1.000	4.77	3.00
40	1.000	4.77	3.00
45	1.000	4.77	3.00
50	1.000	4.77	3.00
60	1.000	4.77	3.00
70	1.000	4.77	3.00
80	1.000	4.77	3.00
90	1.000	4.77	3.00
100	1.000	4.77	3.00
110	1.000	4.77	3.00
120	1.000	4.77	3.00
130	1.000	4.77	3.00
135	0.970	4.51	2.82
140	0.865	3.51	2.24
150	0.690	1.55	1.43
160	0.550	-0.42	0.91
170	0.440	-2.36	0.58
180	0.350	-4.35	0.37
190	0.280	-6.29	0.24
200	0.223	-8.26	0.15

TABLE 3.1 (cont'd)

Azimuth (Degrees)	Relative Field	ERP (dBk)	ERP (kW)
210	0.178	-10.22	0.10
220	0.223	-8.26	0.15
225	0.250	-7.27	0.19
230	0.280	-6.29	0.24
240	0.350	-4.35	0.37
250	0.440	-2.36	0.58
260	0.550	-0.42	0.91
270	0.690	1.55	1.43
280	0.865	3.51	2.24
290	1.000	4.77	3.00
300	1.000	4.77	3.00
310	1.000	4.77	3.00
315	1.000	4.77	3.00
320	1.000	4.77	3.00
330	1.000	4.77	3.00
340	1.000	4.77	3.00
350	1.000	4.77	3.00

Maximum ERP=3.00 kilowatts=4.77 dBk



MAXIMUM ERP = 3 kW

FIG. 3.1

PROPOSED DIRECTIONAL PATTERN

Positive Alternative Radio, Inc.
Point Pleasant, WV

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216/659-4440

TABLE OF FIELD STRENGTH FOR : JSCP2.ELV

INCREMENTAL DEGREES

		0	1	2	3	4	5	6	7	8	9
	+	1.000	.998	.994	.977	.966	.953	.937	.909	.888	.864
	-	1.000	.998	.994	.977	.966	.953	.937	.909	.888	.864
D	-10	.838	.801	.762	.730	.689	.646	.609	.565	.525	.479
E	-20	.433	.387	.345	.300	.254	.212	.167	.124	.082	.041
G	-30	.000	.039	.076	.112	.146	.176	.207	.236	.259	.285
R	-40	.308	.330	.350	.363	.379	.394	.407	.419	.429	.438
E	-50	.445	.444	.448	.444	.446	.438	.438	.428	.426	.414
E	-60	.411	.397	.392	.386	.380	.364	.356	.349	.331	.323
S	-70	.314	.296	.287	.267	.258	.249	.229	.219	.210	.190
	-80	.180	.170	.160	.150	.150	.140	.130	.120	.120	.110
	-90	.100									

TABLE 3.2

VERTICAL RADIATION PATTERN

Positive Alternative Radio, Inc.
Point Pleasant, WV

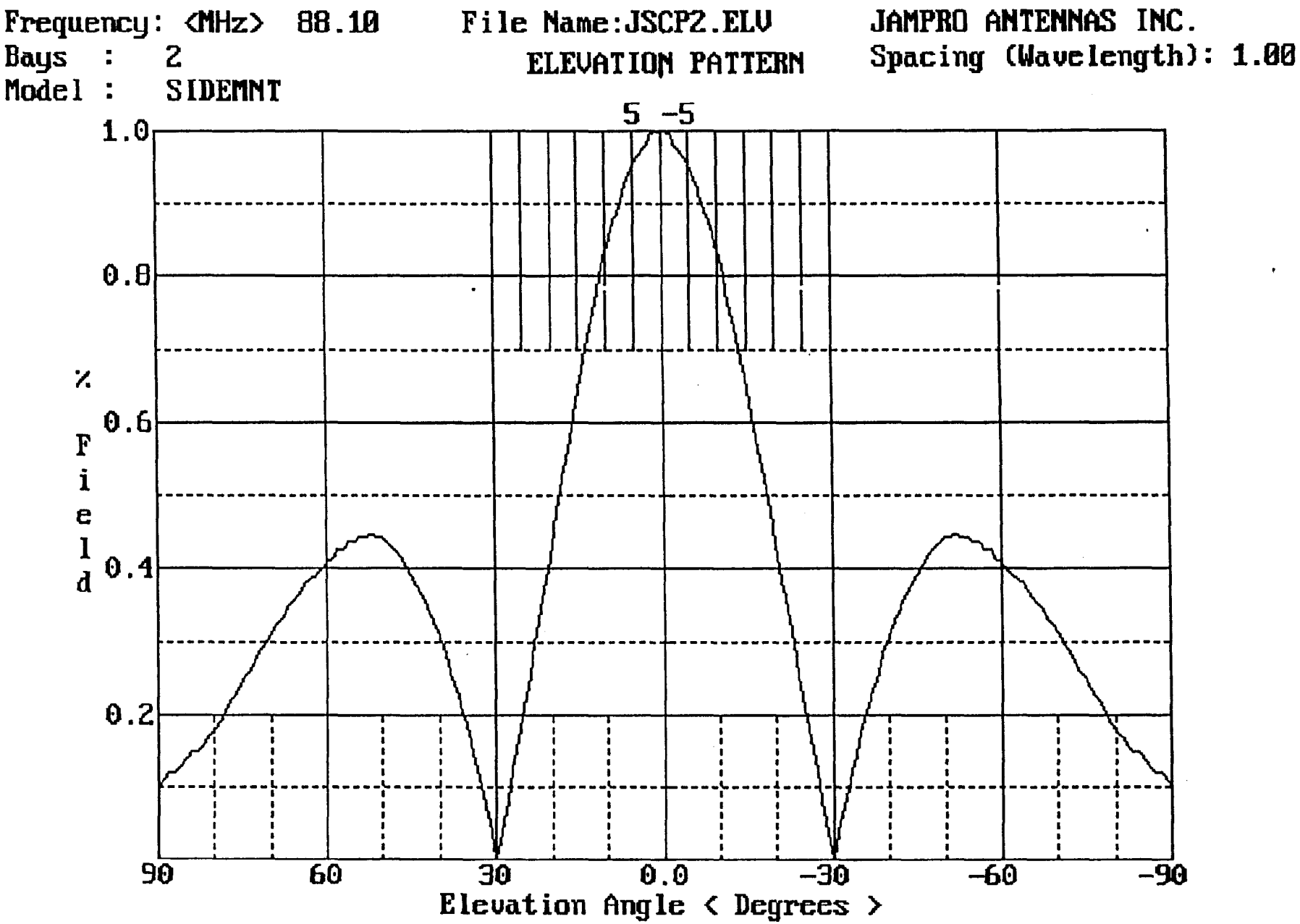


FIG. 3.2

VERTICAL RADIATION PATTERN

Positive Alternative Radio, Inc.
Point Pleasant, WV

4.0 PROPOSED 1 mV/m CONTOUR

The proposed 1 mV/m contour is listed in Table 4.0. Because a directional antenna is involved, this contour was projected at azimuth intervals of no more than ten degrees to insure sufficient detail. The average elevation of each radial was extracted from the NGDC 30 second terrain database. Only the eight cardinal radials, however, were used in calculating the overall height above average terrain. Using these average elevations, the proposed contour was computed as specified by Section 73.313 of the FCC Rules. Figure 4.0 shows this contour on an appropriate map base in relation to the Point Pleasant city limits and the 1 mV/m contour for the facilities originally proposed in this application.

The population within the proposed 1 mV/m contour was determined from the 1990 U.S. Census and West Virginia and Ohio minor civil division maps using proportional parts of the civil divisions covered. The land area within the proposed 1 mV/m contour was measured with a polar planimeter. These values are listed in Paragraph 15 of FCC Form 340, Section V-B.

POINT PLEASANT CH201A
60.0 dBu CONTOUR
(F(50,50) Curves Utilized)

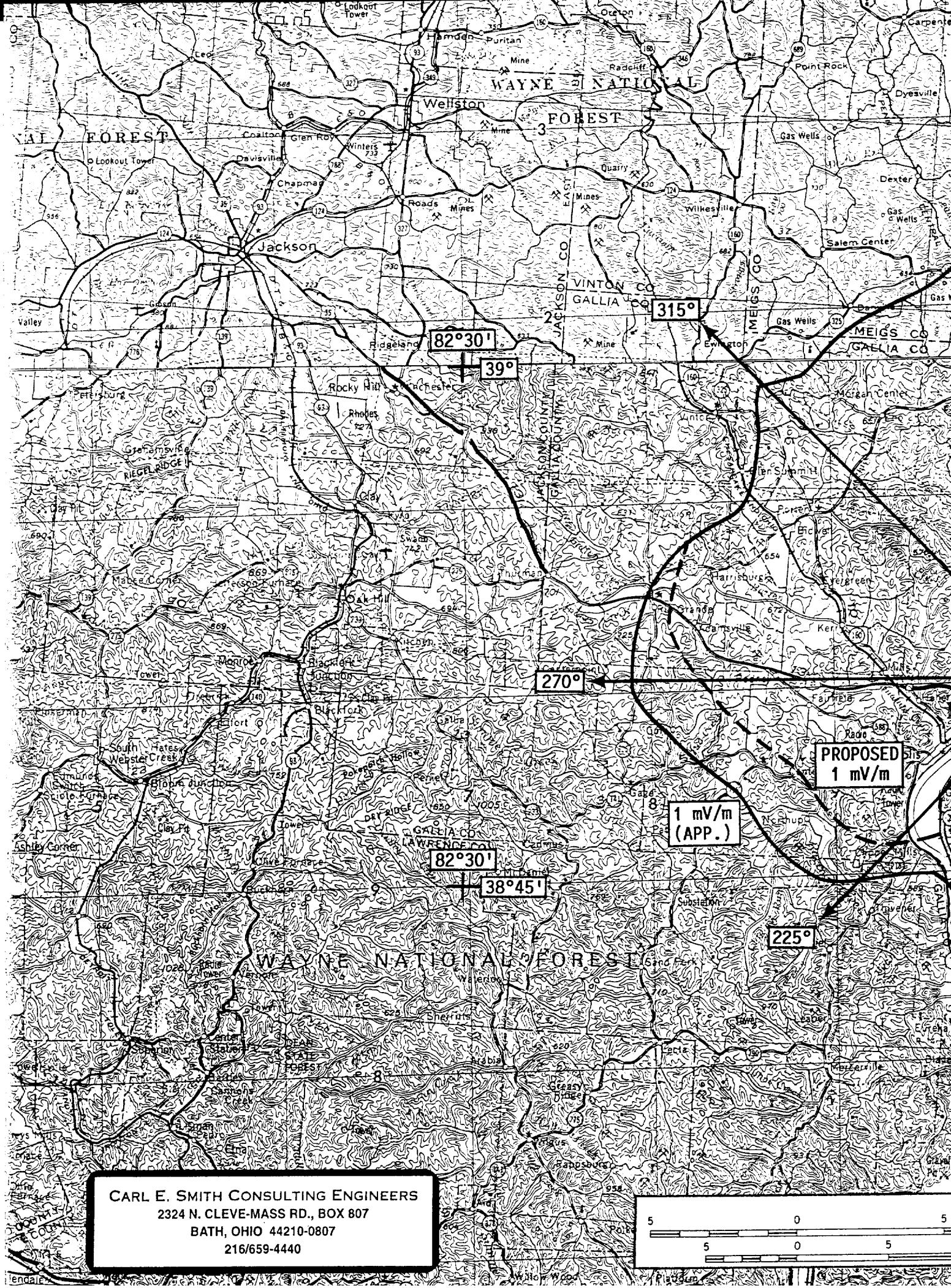
BEARING (Degrees)	AVERAGE TERRAIN ELEVATION (meters)	ANTENNA HAAT (meters)	----- HORIZONTAL ------ RELATIVE FIELD	ERP (dBk)	(kW)	DISTANCE TO CONTOUR (km)
0.0 *	180.3	112.3	1.000	4.77	3.000	25.6
10.0	184.2	108.4	1.000	4.77	3.000	25.2
20.0	193.3	99.3	1.000	4.77	3.000	24.1
30.0	209.3	83.3	1.000	4.77	3.000	22.2
40.0	206.7	85.9	1.000	4.77	3.000	22.5
45.0 *	214.3	78.3	1.000	4.77	3.000	21.5
50.0	212.9	79.7	1.000	4.77	3.000	21.7
60.0	216.9	75.7	1.000	4.77	3.000	21.2
70.0	228.3	64.3	1.000	4.77	3.000	19.6
80.0	235.6	57.0	1.000	4.77	3.000	18.5
90.0 *	225.4	67.2	1.000	4.77	3.000	20.0
100.0	225.7	66.9	1.000	4.77	3.000	20.0
110.0	221.4	71.2	1.000	4.77	3.000	20.5
120.0	203.0	89.6	1.000	4.77	3.000	23.0
130.0	176.6	116.0	1.000	4.77	3.000	25.9
135.0 *	183.4	109.2	0.970	4.51	2.823	24.9
140.0	198.8	93.8	0.865	3.51	2.245	22.0
150.0	218.8	73.8	0.690	1.55	1.428	17.3
160.0	223.1	69.5	0.550	-0.42	0.908	14.8
170.0	225.0	67.6	0.440	-2.36	0.581	13.1
180.0 *	234.6	58.0	0.350	-4.35	0.367	11.0
190.0	228.4	64.2	0.280	-6.29	0.235	10.3
200.0	202.8	89.8	0.223	-8.26	0.149	10.8
210.0	209.7	82.9	0.178	-10.22	0.095	9.3
220.0	196.6	96.0	0.223	-8.26	0.149	11.1
225.0 *	184.3	108.3	0.250	-7.27	0.188	12.5
230.0	180.9	111.7	0.280	-6.29	0.235	13.4
240.0	192.8	99.8	0.350	-4.35	0.367	14.1
250.0	207.9	84.7	0.440	-2.36	0.581	14.6
260.0	206.5	86.1	0.550	-0.42	0.908	16.6
270.0 *	204.4	88.2	0.690	1.55	1.428	19.0
280.0	205.6	87.0	0.865	3.51	2.245	21.1
290.0	216.9	75.7	1.000	4.77	3.000	21.2
300.0	230.1	62.5	1.000	4.77	3.000	19.3
310.0	219.1	73.5	1.000	4.77	3.000	20.9
315.0 *	206.5	86.1	1.000	4.77	3.000	22.5
320.0	214.9	77.7	1.000	4.77	3.000	21.4
330.0	211.2	81.4	1.000	4.77	3.000	21.9
340.0	210.4	82.2	1.000	4.77	3.000	22.0
350.0	199.0	93.6	1.000	4.77	3.000	23.5

AVERAGE(*) = 204.2 meters

TABLE 4.0

PROPOSED 1 mV/m CONTOUR

Positive Alternative Radio, Inc.
Point Pleasant, WV



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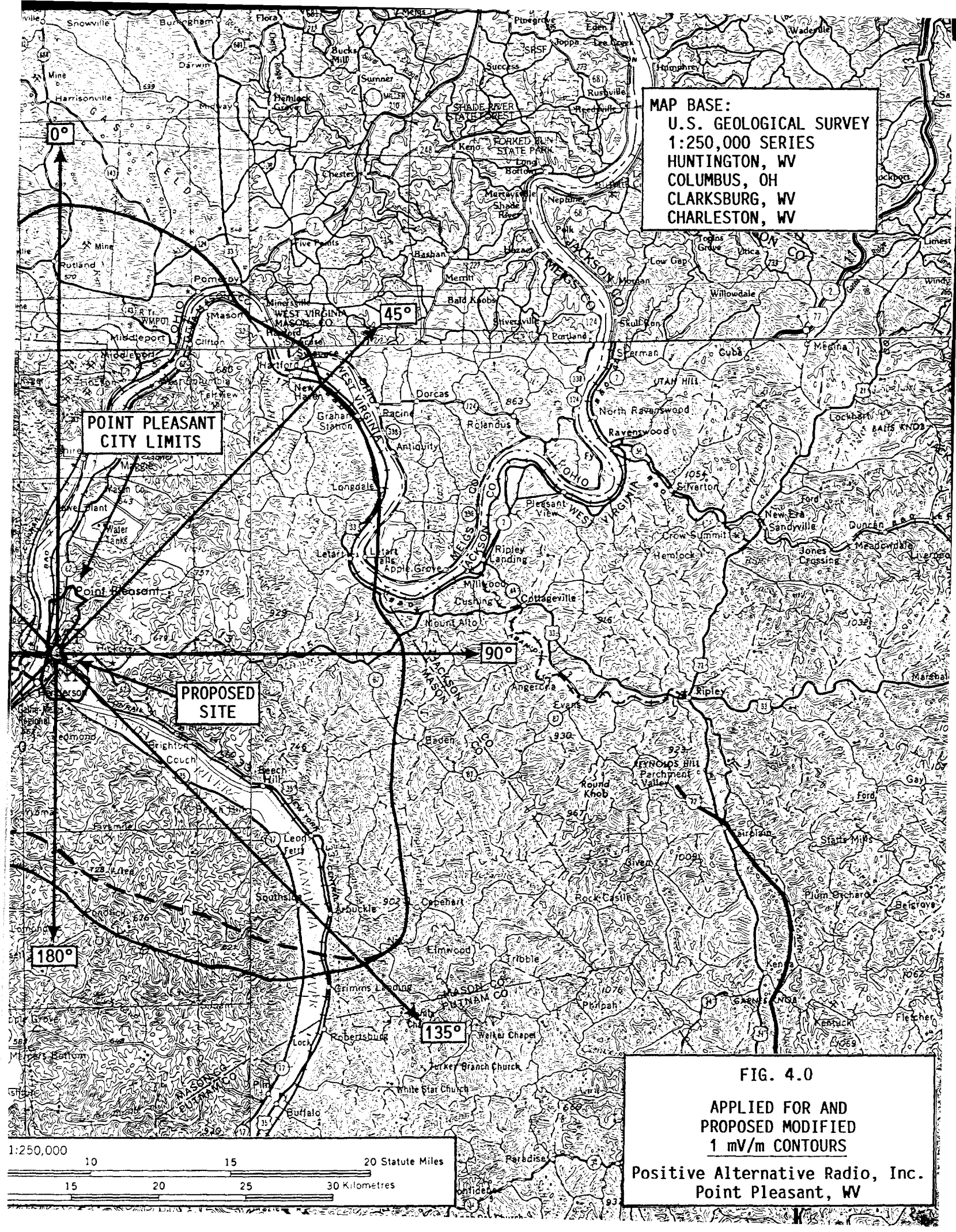

FIG. 4.0

APPLIED FOR AND
PROPOSED MODIFIED
1 mV/m CONTOURS

Positive Alternative Radio, Inc.
Point Pleasant, WV

5.0 PROPOSED TRANSMITTER SITE

The proposed transmitter site is located 670 meters northeast of the intersection of State Route 2 and State Route 62 in Point Pleasant, Mason County, West Virginia. This site is also the licensed transmitter site for WBYG(FM) - Point Pleasant, West Virginia. Figure 5.0 is a topographic map showing the location of this site.

There are no AM broadcast stations located within 3 kilometers of this site. With the exception of colocated WBYG, there are no FM, TV, or nonbroadcast radio facilities located within the immediate vicinity of this site which could be impacted by the construction and operation of the facilities proposed in the attached application. Because of the frequency separation between the proposed facility and WBYG, it is felt that the possibility of intermodulation or other such problems occurring between these two stations will be unlikely. Should any such problems be encountered, however, the applicant will take the appropriate steps, including the installation of any required filtering circuitry to eliminate them.

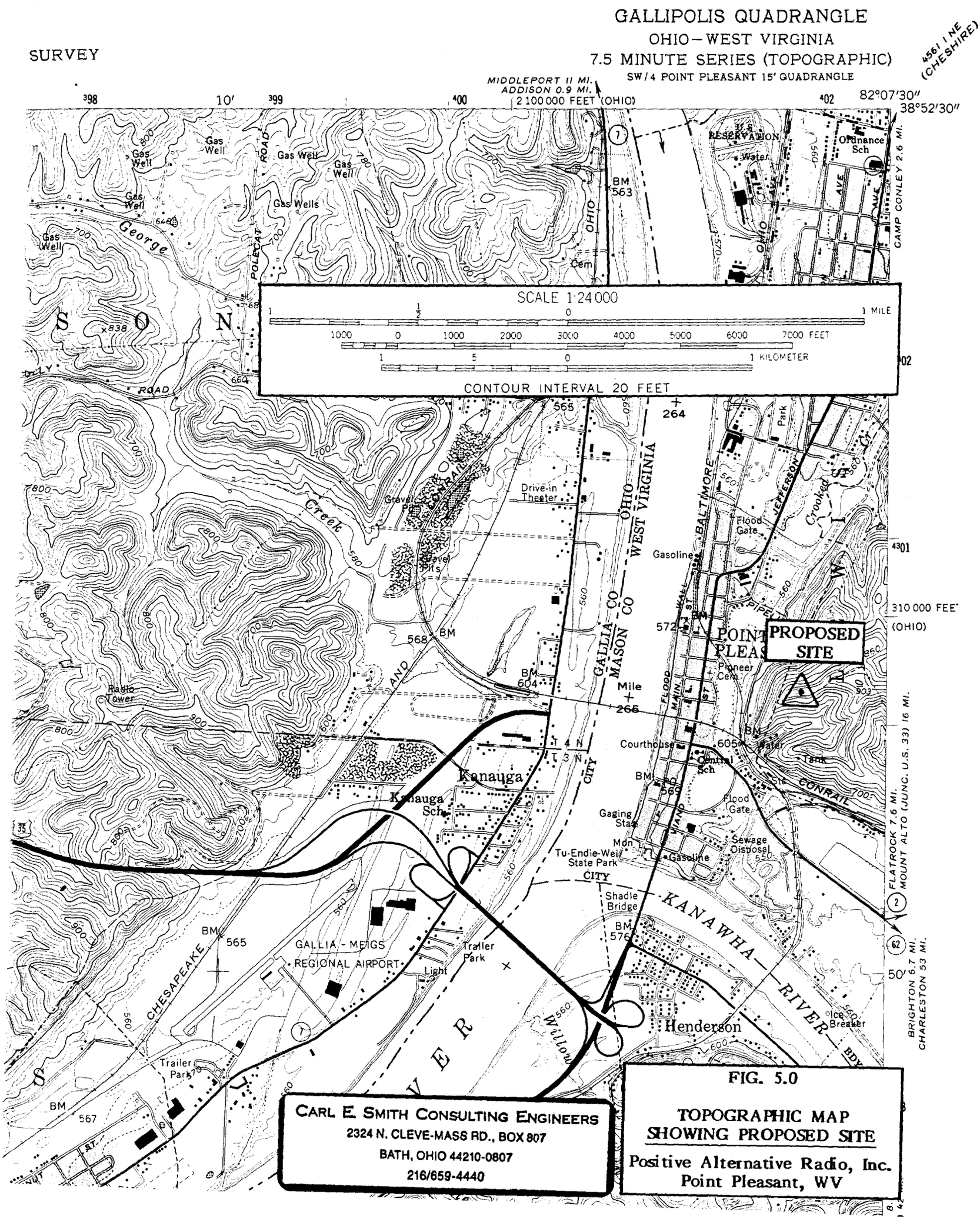

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FIG. 5.0

TOPOGRAPHIC MAP SHOWING PROPOSED SITE

Positive Alternative Radio, Inc.
Point Pleasant, WV