

EXHIBIT 18  
(Page1 of 3)

CONTOUR OVERLAP STUDY  
Positive Alternative Radio, INC.  
Fredericksburg, VA

The attached application proposes to modify the construction permit (BMPED-20130401ACW) to improve WJYJ's operating facilities by specifying nondirectional operation, which eliminates the pattern suppression that was required to protect the facilities authorized by the construction permit (BNPED-20071015ADL) for a new station on Channel 212 in California, Maryland. This modification was made possible by the June 3 expiration of the California construction permit, which is not protected by the proposed modified facilities.

Figure 18.0 shows the service and interference contours for the proposed modified WJYJ facilities in relation to those of all other stations, both operating and proposed, authorized to operate on Channels 210 through 216 that require protection consideration. All contours were projected using the notified facilities for each station from the FCC's Consolidated Database System ("CDBS") and terrain data extracted from the USGS 3 second terrain database. As shown in this figure, the proposed WJYJ facilities will not cause or receive any prohibited contour overlap with any other station that requires protection consideration, with the exception of received overlap from:

WDCE - Richmond, VA - Channel 211A  
WHCE - Highland Springs, VA - Channel 216A

This received overlap is the result of a waiver of Section 73.509 of the FCC Rules that was granted as part of the underlying WJYJ construction permit (BPED-20120424ABP) and is not impacted by the proposed modifications since they involve no changes in the radiated fields over the arc of azimuths toward these areas of prohibited overlap.

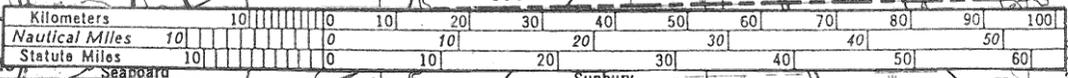
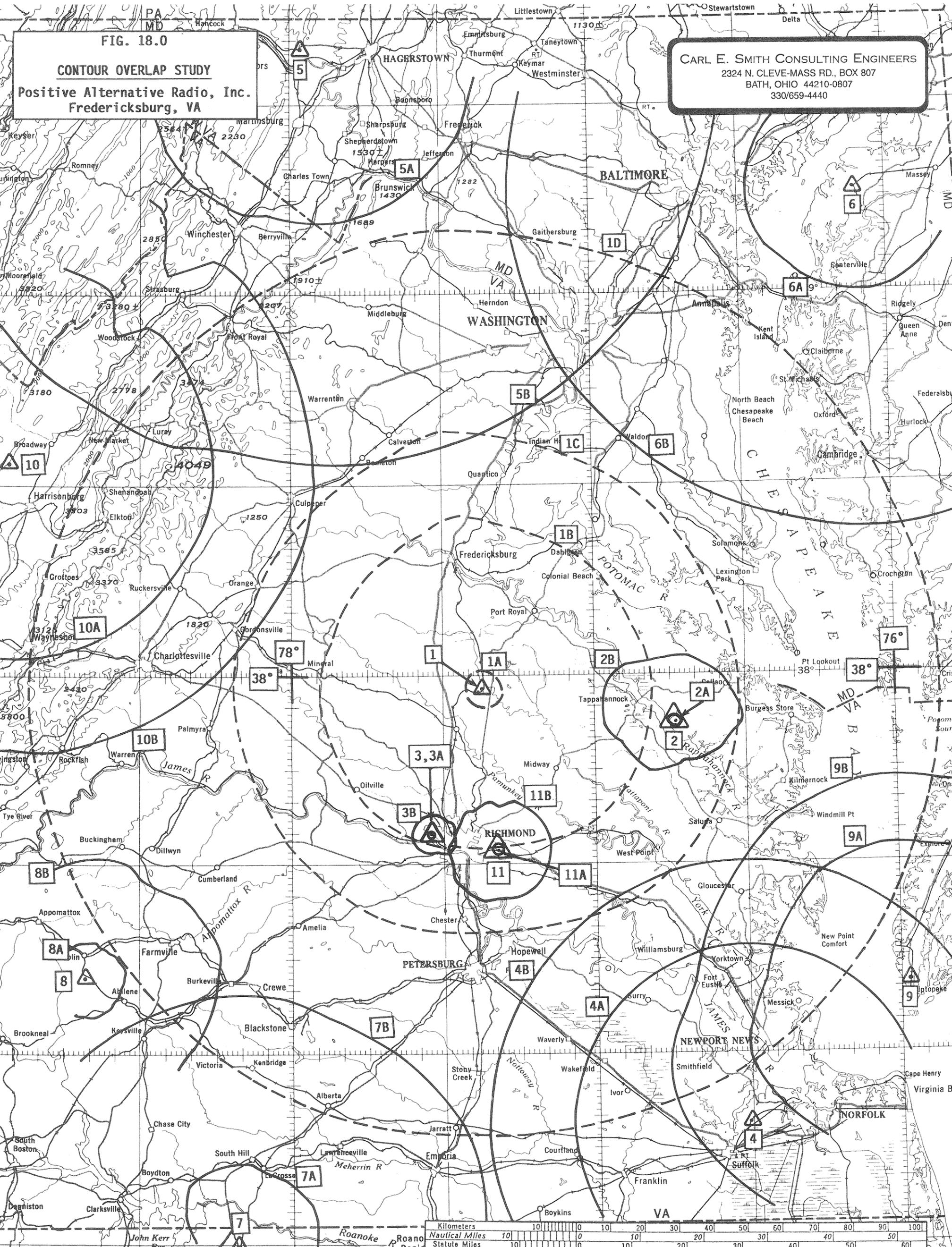
Table 18.0 shows the actual and required separations between the proposed WJYJ facilities and all stations and allotments operating on Channels 266 and 267. As shown in this table, the proposed WJYJ facilities fully comply with all applicable spacing requirements.

FIG. 18.0

CONTOUR OVERLAP STUDY

Positive Alternative Radio, Inc.  
Fredericksburg, VA

CARL E. SMITH CONSULTING ENGINEERS  
2324 N. CLEVE-MASS RD., BOX 807  
BATH, OHIO 44210-0807  
330/659-4440



LEGEND:

1 - PROPOSED WJYJ - FREDERICKSBURG, VA (213B)	4 - WHRO-FM - NORFOLK, VA (212B)	8 - WEQP - PAMPLIN CITY, VA (213A)
1A - WJYJ PROPOSED 100 dBu	4A - WHRO-FM 60 dBu	8A - WEQP 60 dBu
1B - WJYJ PROPOSED 60 dBu	4B - WHRO-FM 54 dBu	8B - WEQP 40 dBu
1C - WJYJ PROPOSED 54 dBu	5 - WCRH - WILLIAMSPORT, MD (213B)	9 - WZLV - CAPE CHARLES, VA (214B)
1D - WJYJ PROPOSED 40 dBu	5A - WCRH 60 dBu	9A - WZLV 60 dBu
2 - WXTR - TAPPAHONNOCK, VA (210A)	5B - WCRH 40 dBu	9B - WZLV 54 dBu
2A - WXTR 100 dBu	6 - WKHS - WORTON, MD (213B1)	10 - WMRA - HARRISONBURG, VA (214B)
2B - WXTR 60dBu	6A - WKHS 60 dBu	10A - WMRA 60 dBu
3 - WDCE - RICHMOND, VA (211A)	6B - WKSH 40 dBu	10B - WMRA 54 dBu
3A - WDCE 100 dBu	7 - WZRN - NORLINA, NC (213A)	11 - WHCE - HIGHLAND SPRINGS, VA (216A)
3B - WDCE 60 dBu	7A - WZRN 60 dBu	11A - WHCE 100 dBu
	7B - WZRN 40 dBu	11B - WHCE 60 dBu

TABLE 18.0

FM ALLOCATION STUDY - CHANNEL 213B (90.5 MHz) - FREDERICKSBURG, VA

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 POSITIVE ALTERNATIVE RADIO, INC.  
 FREDERICKSBURG, VA

STUDY COORDINATES: 37/57/56 77/22/19

STATION	LOCATION	CHANNEL	CLASS	SPACING (km)	REQUIRED SPACING*	NOTES
ALLOTMENT WWDC	CHESTER, VA	266	A	64.87	15.0	12
	WASHINGTON, DC	266	B	118.03	20.0	
WXJK	FARMVILLE, VA	267	A	114.69	15.0	

\* Required Spacing Per Section 73.207 of The FCC Rules

## Notes:

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|--------------------------------------|----------------------------------|
| 1 - Applied For Under Section 73.215 | 7 - Pending Application          |
| 2 - Construction Permit              | 8 - Petition For Reconsideration |
| 3 - Channel Deletion Proposed        | 9 - Proposed Rulemaking          |
| 4 - Move From This Channel Ordered   | 10 - Rulemaking Petition         |
| 5 - Move to This Channel Ordered     | 11 - Short-Spaced                |
| 6 - One Step Reference Site          | 12 - Vacant Allotment            |