

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of WUXP LICENSEE, LLC, licensee of full-power digital television station WUXP-TV, Channel 21 Nashville, Tennessee, in support of its request for Special Temporary Authority to operate the station with the ATSC 3.0 transmission standard and transfer its secondary ATSC 1.0 programming streams to stations WZTV(TV), Channel 20 in Nashville and WSMV-TV, Channel 10 in Nashville. It is important to note that the primary programming stream of WUXP-TV will be transmitted by WKRN-TV, Channel 27 in Nashville, and the engineering support for that proposal is contained in the WUXP-TV Application for Modification of License to convert to ATSC 3.0 operation.

Exhibit B is a map upon which the WZTV(TV) and WUXP-TV noise-limited service contours are plotted. As shown, the majority of the WUXP-TV service contour overlaps that of WZTV(TV). Indeed, the “loss area” population that will be created as a result of the transfer of WUXP-TV’s secondary ATSC 1.0 programming to WZTV(TV) is only 2.5% of the total service population of WUXP-TV, according to the 2018 U.S. Census Estimate database. In addition, the additional area served by WZTV(TV) that is presently not served by WUXP-TV contains 56,981 people.

It is also important to note that WZTV(TV) places a city-grade service contour over the entirety of the WUXP-TV city of license, Nashville, Tennessee, as shown in Exhibit C. This is not unexpected, since WZTV(TV) is also licensed to Nashville. Thus, the instant application meets the requirements of Section 73.3801(c) of the Commission’s Rules.

EXHIBIT A

Exhibit D is a map upon which the WUXP-TV and WSMV-TV noise-limited service contours are plotted. As shown, the majority of the WUXP-TV service contour overlaps that of WSMV-TV. As in the WZTV(TV) study, the “loss area” population that will be created as a result of the transfer of WUXP-TV’s secondary ATSC 1.0 programming to WSMV-TV is only 1.2% of the total service population of WUXP-TV. In addition, a significant amount of gain area, containing 150,957 people, will be created by a move of the ATSC 1.0 secondary streams to WSMV-TV.

WSMV-TV also places a 43 dBu city-grade service contour over the entirety of the WUXP-TV city of license, Nashville, Tennessee, as shown in Exhibit E. WSMV-TV is licensed to Nashville, just like WUXP-TV. Thus, the instant application meets the requirements of Section 73.3801(c) of the Commission’s Rules.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher". The signature is stylized with a large initial "K" and a long horizontal stroke at the end.

KEVIN T. FISHER

September 18, 2021

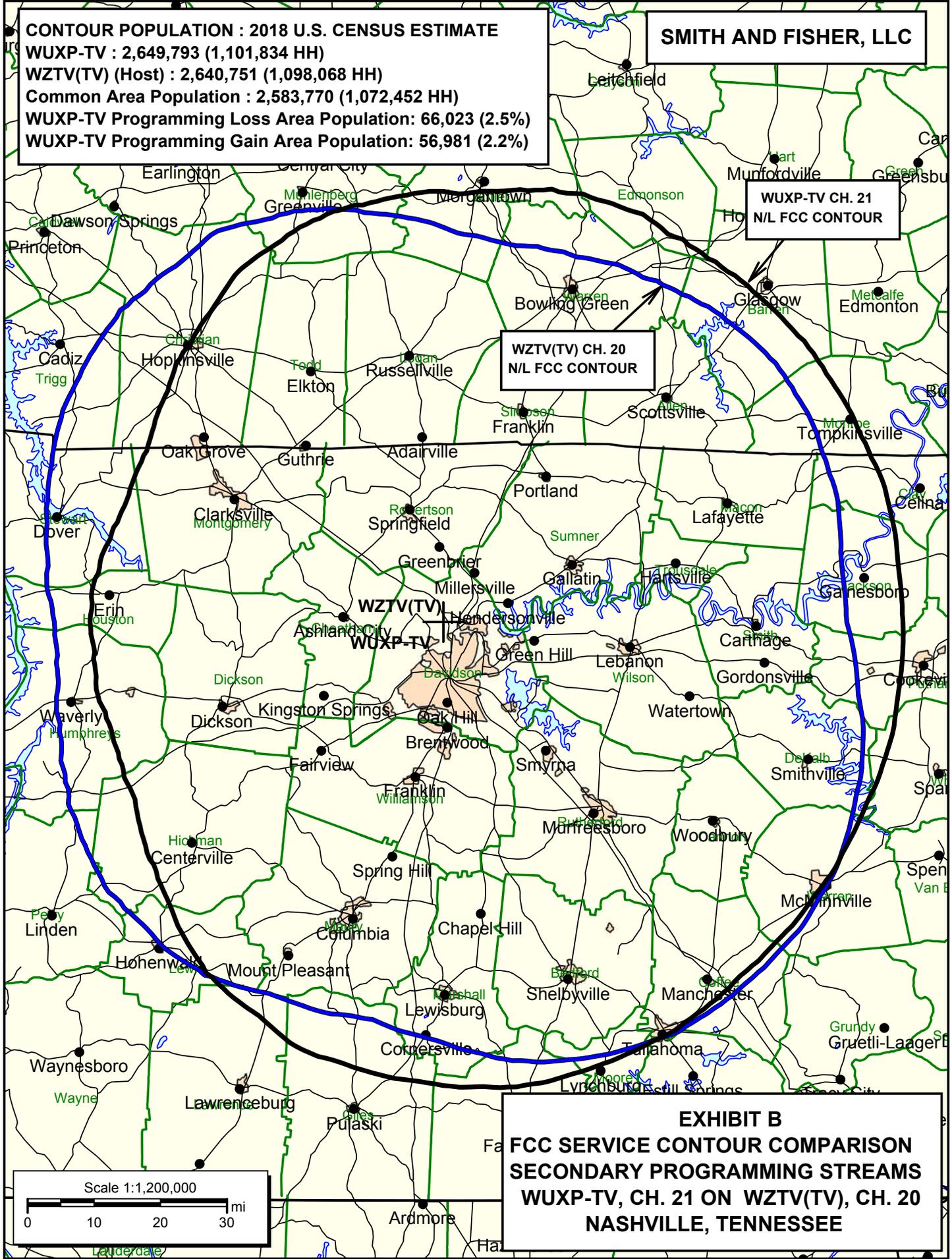
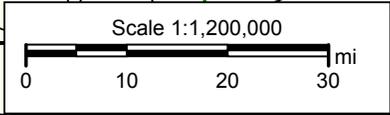
**CONTOUR POPULATION : 2018 U.S. CENSUS ESTIMATE**  
**WUXP-TV : 2,649,793 (1,101,834 HH)**  
**WZTV(TV) (Host) : 2,640,751 (1,098,068 HH)**  
**Common Area Population : 2,583,770 (1,072,452 HH)**  
**WUXP-TV Programming Loss Area Population: 66,023 (2.5%)**  
**WUXP-TV Programming Gain Area Population: 56,981 (2.2%)**

**SMITH AND FISHER, LLC**

**WUXP-TV CH. 21  
N/L FCC CONTOUR**

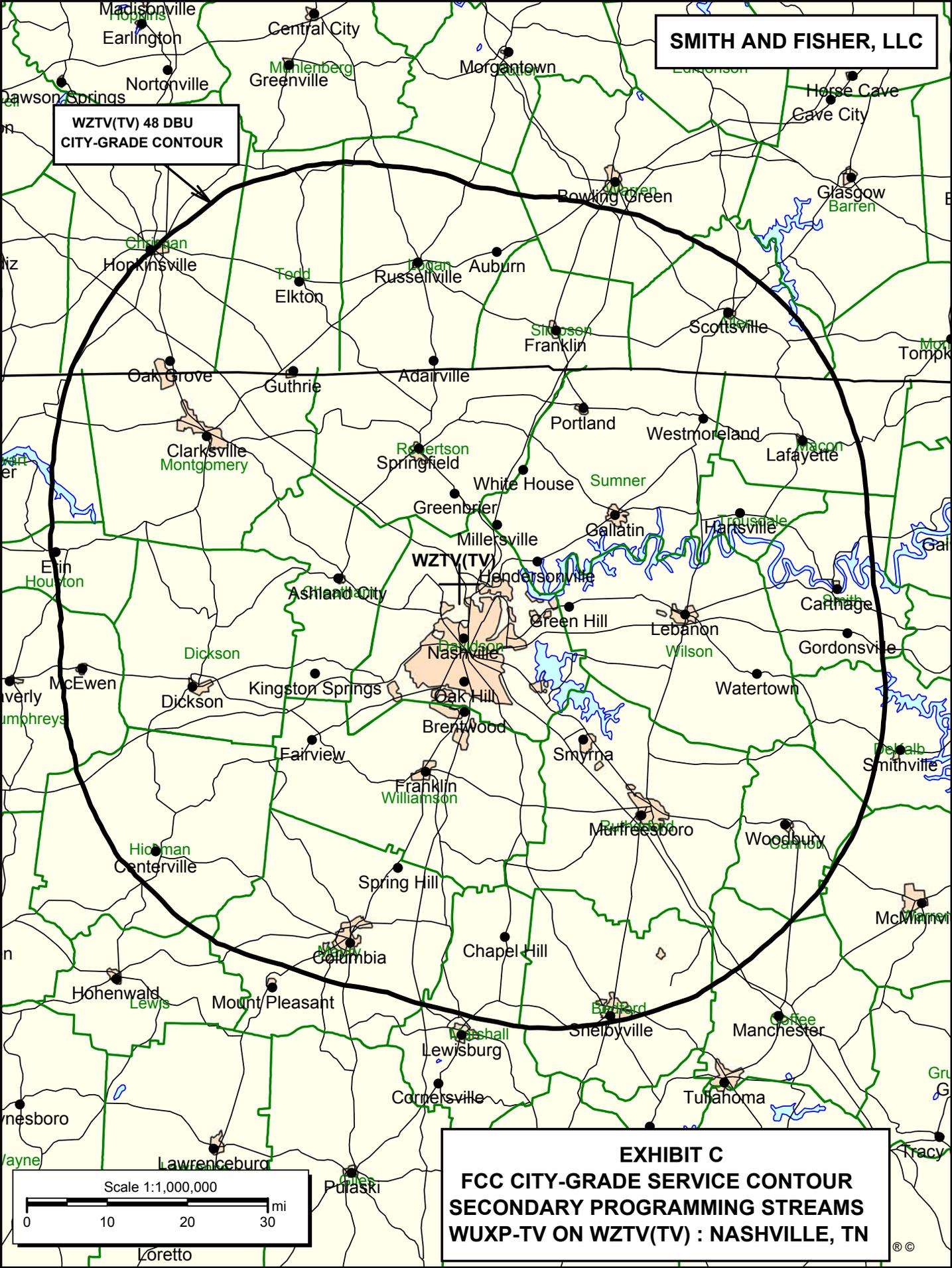
**WZTV(TV) CH. 20  
N/L FCC CONTOUR**

**EXHIBIT B**  
**FCC SERVICE CONTOUR COMPARISON**  
**SECONDARY PROGRAMMING STREAMS**  
**WUXP-TV, CH. 21 ON WZTV(TV), CH. 20**  
**NASHVILLE, TENNESSEE**



**SMITH AND FISHER, LLC**

**WZTV(TV) 48 DBU  
CITY-GRADE CONTOUR**



**EXHIBIT C  
FCC CITY-GRADE SERVICE CONTOUR  
SECONDARY PROGRAMMING STREAMS  
WUXP-TV ON WZTV(TV) : NASHVILLE, TN**

**CONTOUR POPULATION : 2018 U.S. CENSUS ESTIMATE**  
**WUXP-TV : 2,649,793 (1,101,834 HH)**  
**WSMV-TV (Host) : 2,769,857 (1,160,803 HH)**  
**Common Area Population : 2,618,900 (98.8% of WUXP-TV Service Pop.)**  
**WUXP-TV Programming Loss Area Population: 30,893 (1.2%)**  
**WUXP-TV Programming Gain Area Population: 150,957**

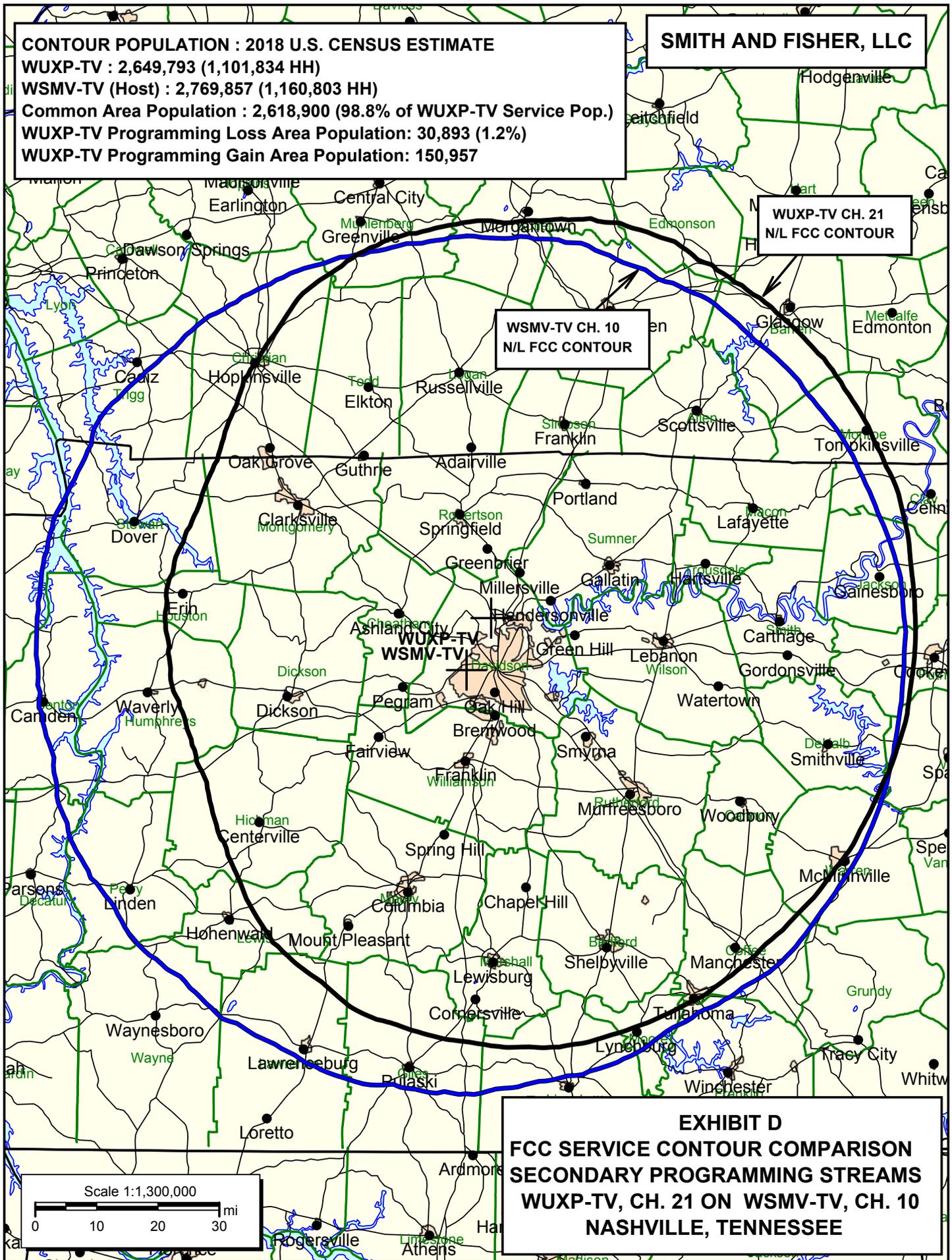
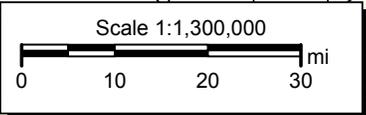
**SMITH AND FISHER, LLC**

**WUXP-TV CH. 21  
 N/L FCC CONTOUR**

**WSMV-TV CH. 10  
 N/L FCC CONTOUR**

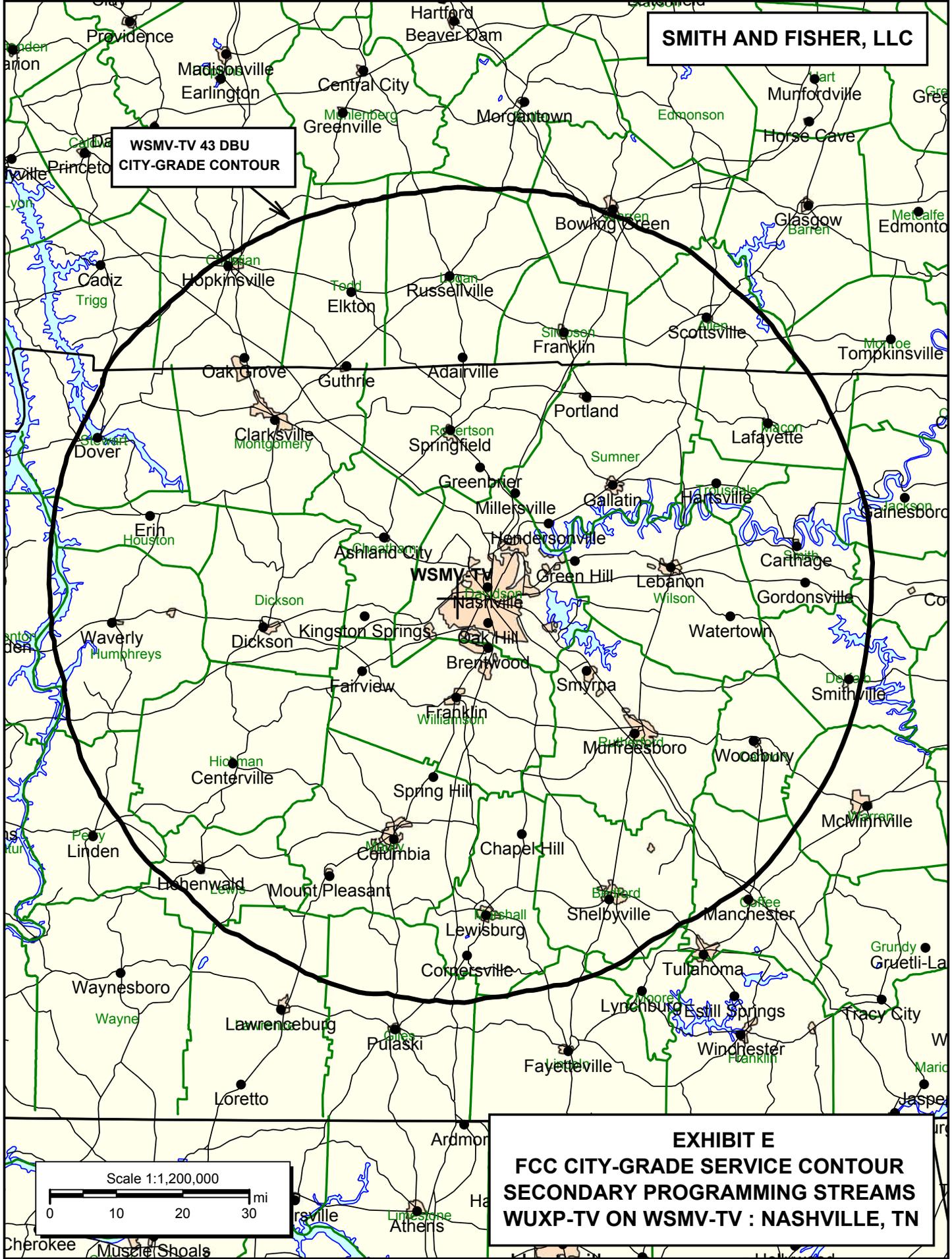
**WUXP-TV  
 WSMV-TV**

**EXHIBIT D**  
**FCC SERVICE CONTOUR COMPARISON**  
**SECONDARY PROGRAMMING STREAMS**  
**WUXP-TV, CH. 21 ON WSMV-TV, CH. 10**  
**NASHVILLE, TENNESSEE**



**SMITH AND FISHER, LLC**

**WSMV-TV 43 DBU  
CITY-GRADE CONTOUR**



**EXHIBIT E  
FCC CITY-GRADE SERVICE CONTOUR  
SECONDARY PROGRAMMING STREAMS  
WUXP-TV ON WSMV-TV : NASHVILLE, TN**