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## **Exhibit 11**

### **Narrative**

This application seeks a minor modification to the construction permit issued July 24, 2006, for AM broadcast station KMUR, 1570 kHz, in BMJP 20050106AAZ. Currently, KMUR holds a license for 1 kW daytime and a construction permit to move to new a new site, install a directional antenna system and change the city of license to Catoosa, Oklahoma. This application utilizes conductivity measurements obtained during the proof of performance measurements for station KRVT which will share facilities with the proposed KMUR site. These measurements show that the directional antenna system specified in the above reference construction permit is not necessary. As a result, the purpose of this application is to specify non directional operation.

The exhibits included herein are numbered to correspond to the applicable portions of Section III-A of Form 301. The discussion below is responsive to items 7 through 11 in Section III-A.

**Broadcast Facility.** Details of the proposed daytime antenna system and the site are included in exhibits 11.1 through 11.3. Photographs of the site are included in Exhibit 11.4. Maps showing the proposed city grade contour and the 1.0 V/m blanket contour have been included as exhibits 11.5 and 11.6. Exhibit 11.7 shows the proposed daytime field strength contours. The proposed facility is in compliance with all applicable rules contained in 47 C.F.R. Part 73, Subpart A.

**Community Coverage.** The proposed daytime coverage is in compliance with the requirements of the Commission's rules. The proposed 5.0 mV/m contour covers all of the proposed city of license, Catoosa, Oklahoma. Compliance is demonstrated in Exhibit 11.5.

**Main Studio Location.** The main studio location will remain in compliance with the requirements of section 73.1125.

**Goundwave Interference.** A daytime allocation study was made utilizing measurements and FCC figure M-3. Existing and proposed contours for KMUR are shown in Exhibit 15.1. Co-channel, first and second adjacent channel compliance is demonstrated in Exhibits 15.2 through 15.4. A tabulation of the data employed in calculation of the daytime contours is included in Exhibit 15.5

In order to establish actual ground conductivity, measurements were taken on station KOKB and KRVT (BL 20061220ADU). These measurements were taken and analyzed by the undersigned, who is a broadcast engineer experienced with making and analyzing such measurements. The results of these measurements are reflected in both tabular and graph form in Exhibit 15.5. The measurements were made with a recently calibrated FIM-41 which is referenced in a separate declaration included in Exhibit 15.5.

This application also includes measured data previously accepted by the Commission for stations KYAL (formerly KXOJ) and KKUZ (formerly KKID) in file no. 870324AA (application of KXOJ for a construction permit to increase power.)

The daytime allocation study shows that the proposed KMUR facility will comply with all relevant allocation criteria.

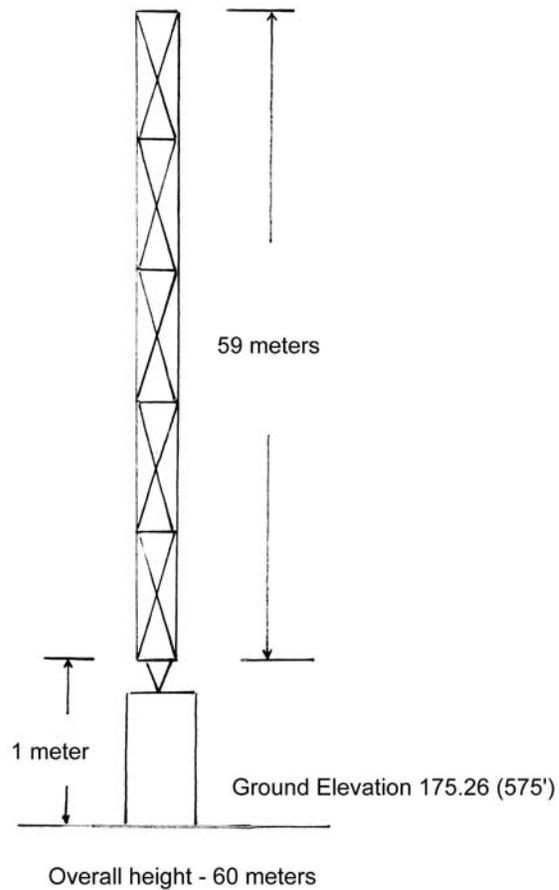
**Skywave Interference.** Not applicable.

**Critical Hours Interference.** The operation proposed by this application is not subject to the provisions of Section 73.187. No special considerations for critical hours operations are required.

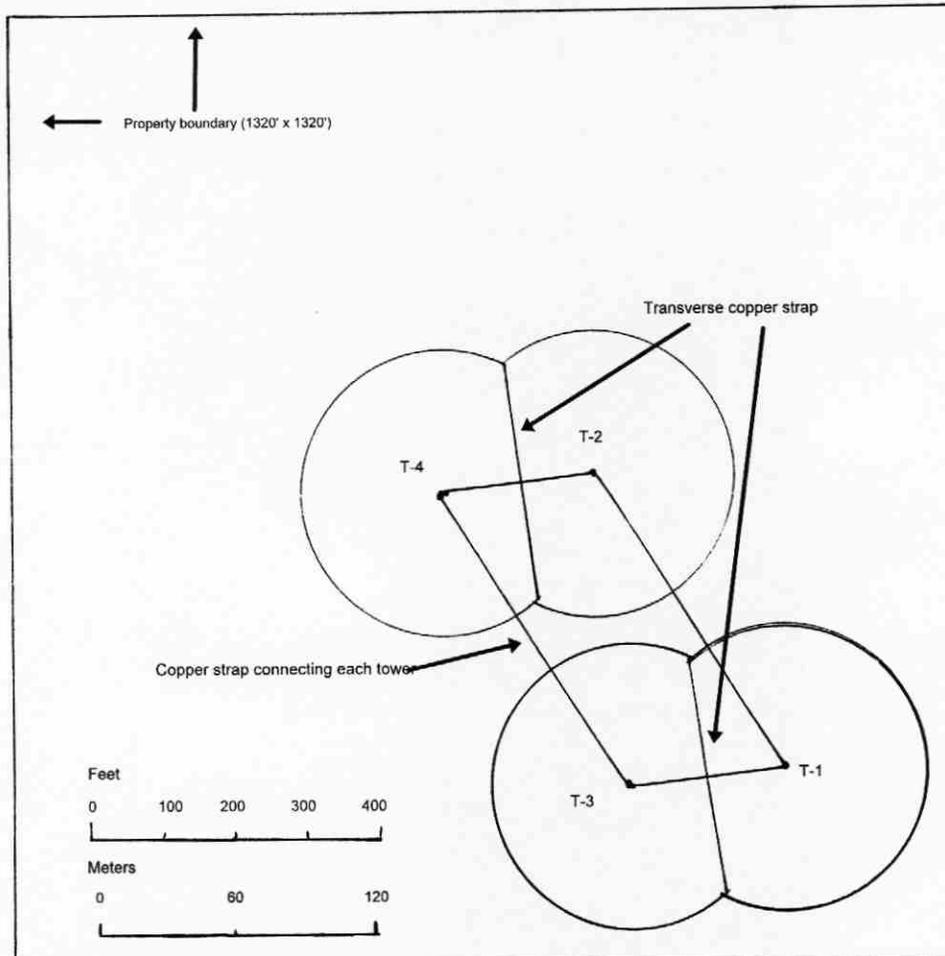
**Environmental Protection Act.** The proposed operation is in compliance with OET Bulletin No. 65. See Exhibit 18.

## Exhibit 11.1 Antenna System – Vertical Plan

The proposed daytime antenna system will utilize existing KRVT nighttime tower 1. The tower is a vertical, series fed, uniform cross section guyed towers, with an overall height of 60 meters. Neither antenna structure registration nor obstruction lighting are required.



**Exhibit 11.2**  
**Antenna System – Horizontal Plan**  
**KMUR 1570**



The proposed KMUR daytime array will utilize tower 1. Tower 1 will be shared with proposed daytime operation of KRVT 1270 (BP 20070322AEK). Towers 3 and 4 will float during daytime operation. Tower 2 will be adjusted to float at 1570 kHz during daytime operation.

The existing ground system is comprised of 120 ninety degree radials buried 10-20 cm deep per tower, except where shorted at the intersection with adjacent towers. The radials are #10 soft drawn copper wire. Each tower ground ring is interconnected with a 5 cm copper ground strap. All radials and interconnecting straps have been silver soldered to the ground ring at the base of each tower.

**Exhibit 11.3  
Topographic  
Map of  
Proposed  
Site**



**Proposed Site**

**X**

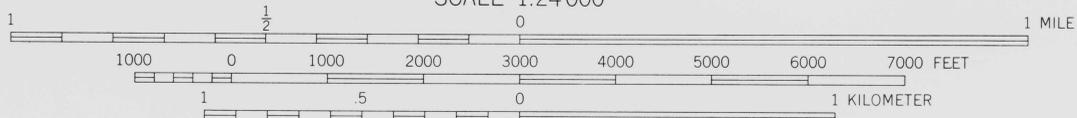
36.15' 52"  
95.42' 34"

SAGEEYAH, OKLA  
N3615-W9637 5/7.5  
1963  
PHOTOREVISED  
1980

36.15'  
42'30"

(CATOOSA)  
6856 II NW  
SCALE 1:24 000

CATOOSA 6 MI.  
TULSA (CIVIC CENTER) 21 MI.  
40' 8 MI. TO EAST TULSA  
OKLAHO



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



1980 MAGNETIC NORTH  
AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
AND BY THE OKLAHOMA GEOLOGICAL SURVEY, NORMAN, OKLAHOMA 73069  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

## Exhibit 11.4

### Photographs of Proposed Site

(Note: The following pictures were submitted in the original KMUR application. Since that time, the KRVT array has been constructed on this site.)



Looking North



Looking Northeast



Looking East



Looking Southeast



Looking South



Looking Southwest

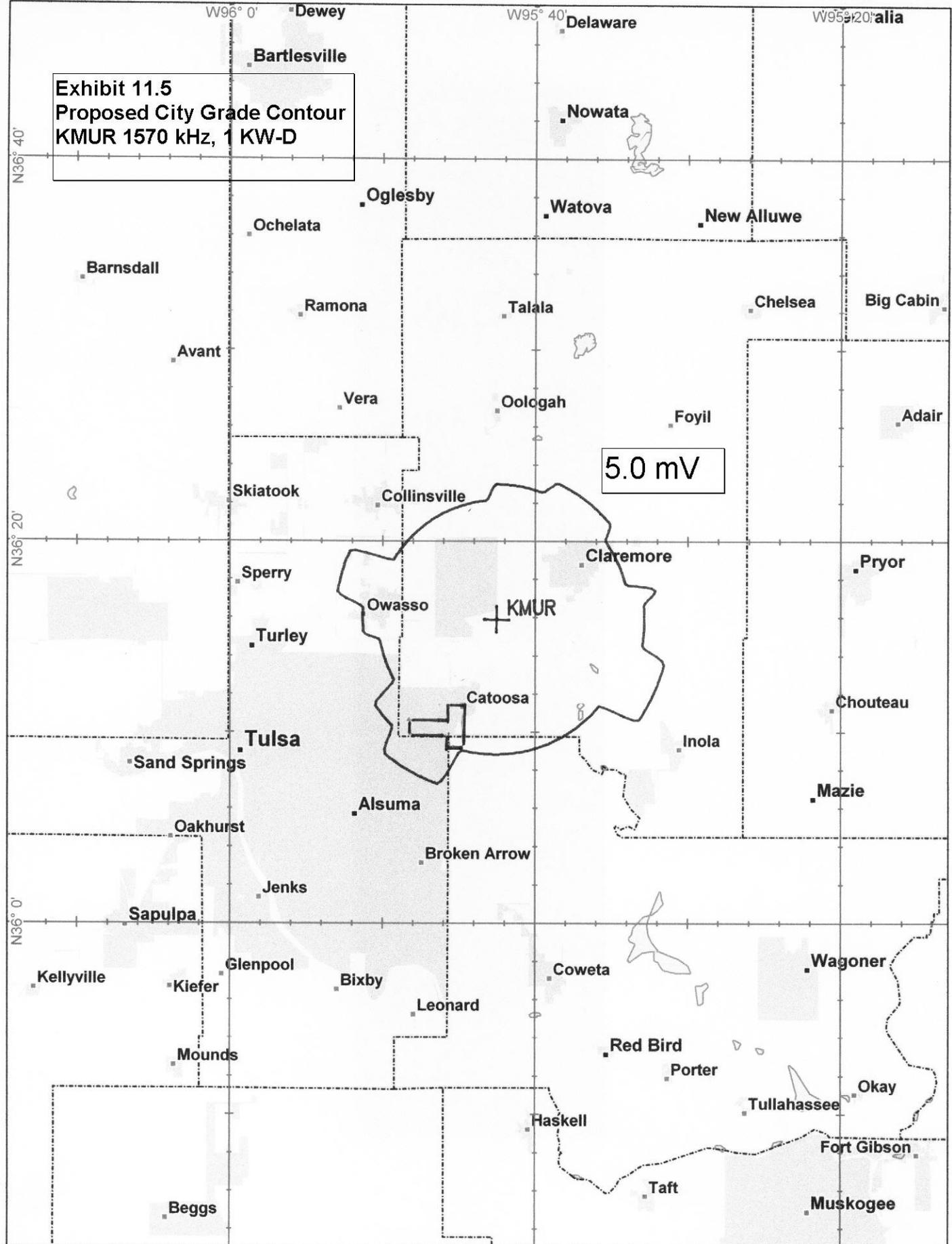


Looking West



Looking Northwest

Exhibit 11.5  
Proposed City Grade Contour  
KMUR 1570 kHz, 1 KW-D



5.0 mV

KMUR

Data use subject to license.

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Scale 1 : 500,000



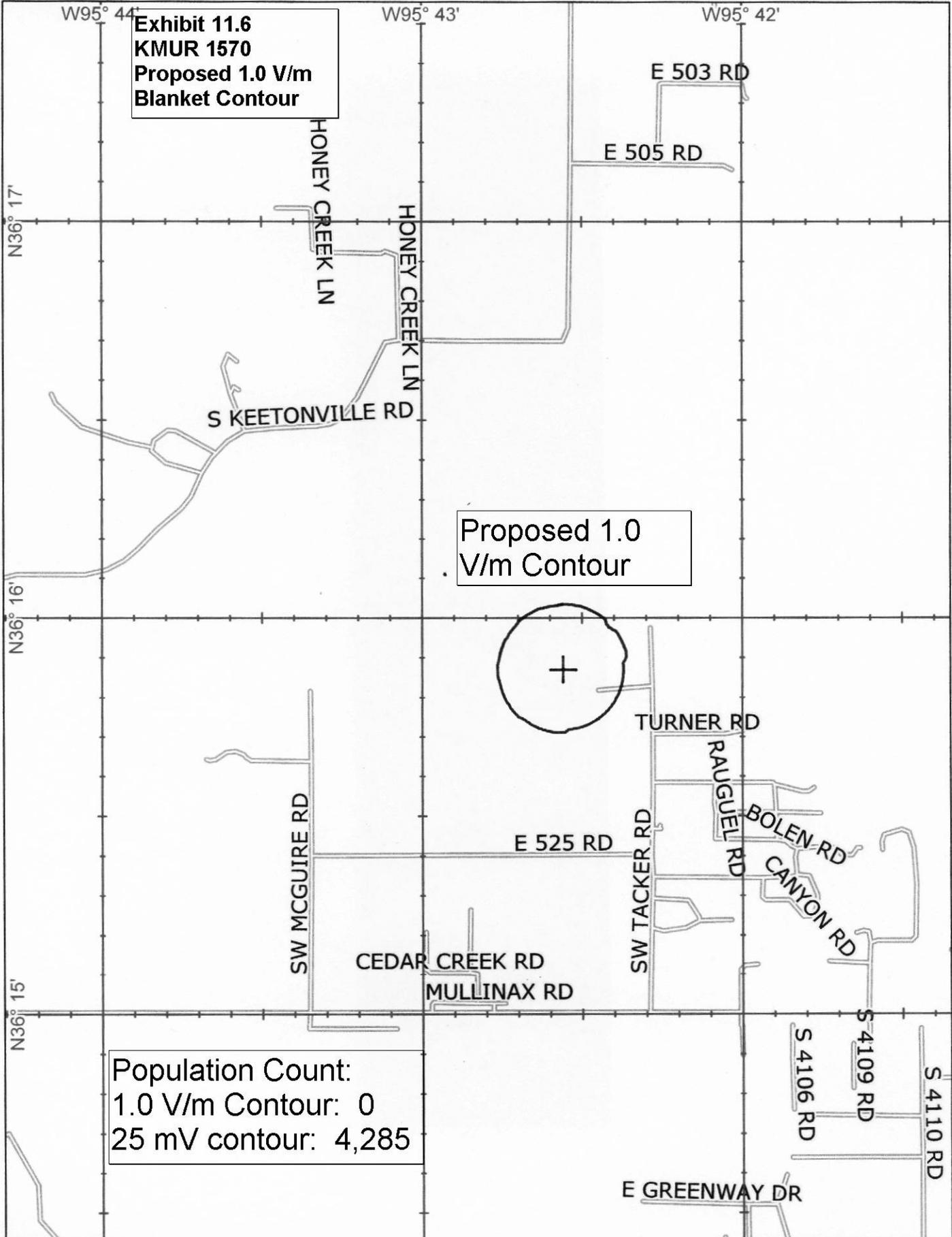
1" = 7.89 mi

Data Zoom 8-1

Exhibit 11.6  
KMUR 1570  
Proposed 1.0 V/m  
Blanket Contour

Proposed 1.0  
V/m Contour

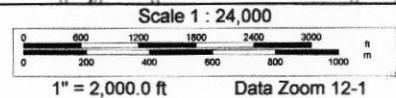
Population Count:  
1.0 V/m Contour: 0  
25 mV contour: 4,285



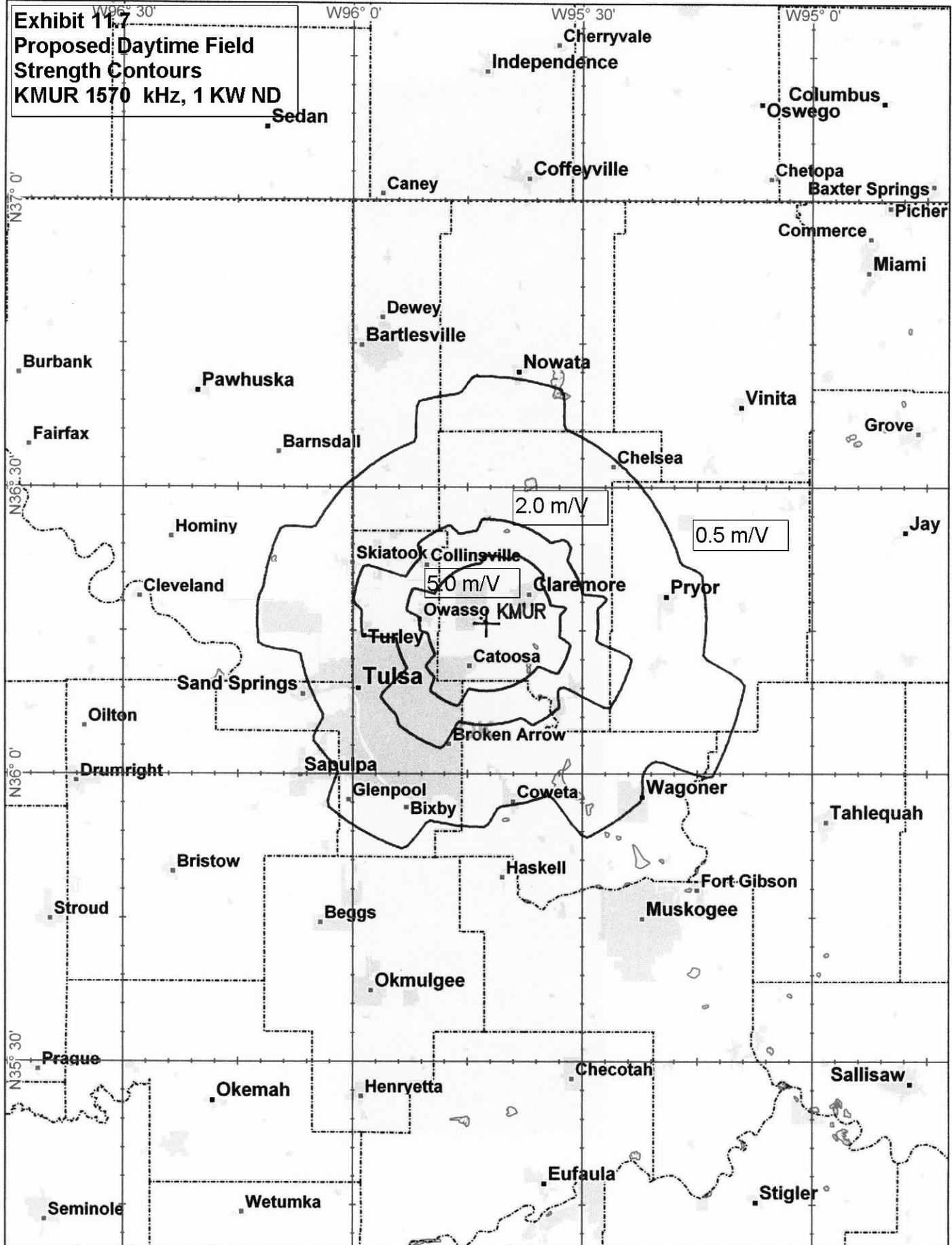
Data use subject to license.

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**Exhibit 11.7**  
**Proposed Daytime Field Strength Contours**  
**KMUR 1570 kHz, 1 KW ND**



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