

**Engineering Statement
In Support of an**

Amendment to a Pending Application

KVRW(FM), Channel 297C2, Lawton, Oklahoma

KVRW Channel Spacing Study

34 38 13 N.				Class C2				Search Date
98 30 28 W.				Current rules spacings				02-15-01
----- Channel 297 -107.3 MHz -----								
Call	Ch#	City		State	Bear'	Dist'	R'qrd	Margin

Community of Lawton				OK	106.2	11.27		
Reference Coordinates:								
North Latitude: 34-36-31								
West Longitude: 98-23-23								
KVRW	297C2	Lawton		OK	98.7	21.70	190.0	-168.30 *
KVRW.A	297C2	Lawton		OK	135.4	30.57	190.0	-159.43 *
Of no concern:								
Facility in instant application								
KYNZ.A	296C3	Lone Grove		OK	106.8	130.01	117.0	13.01
KRXO	299C	Oklahoma City		OK	42.6	137.44	105.0	32.44
KEYB	300C2	Altus		OK	278.9	95.63	58.0	37.63
AVAC	298C3	Wellington		TX	277.3	160.08	117.0	43.08
KWKQ	296C3	Graham		TX	182.7	167.67	117.0	50.67
KXGM.C	294C	Muenster		TX	144.6	163.22	105.0	58.22
AVAC	294C	Muenster		TX	144.6	163.22	105.0	58.22
KTUZFM	294C2	Okarche		OK	28.1	122.88	58.0	64.88
KTUZFM	294C2	Okarche		OK	28.1	122.88	58.0	64.88
KYNZ	294A	Lone Grove		OK	111.0	124.16	55.0	69.16

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KVRW Contour/Terrain Averaging Study

Reference Coordinates:

North Latitude: 34-38-13

West Longitude: 98-30-28

Azimuth °T.	ERP = 50.0 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height		F(50-50) Distance to 60 dBu Contour	F(50-50) Distance to 70 dBu Contour
	Meters AMSL	Meters AAT	ERP (dBk)	km	km
*0.0	423.2	107.6	16.990	46.1	28.1
5.0	417.4	113.4	16.990	47.0	28.8
10.0	419.5	111.3	16.990	46.7	28.5
15.0	412.8	118.0	16.990	47.7	29.3
20.0	402.5	128.3	16.990	49.2	30.3
25.0	397.6	133.2	16.990	49.9	30.8
30.0	392.4	138.4	16.990	50.6	31.3
35.0	382.8	148.0	16.990	51.9	32.4
40.0	372.7	158.1	16.990	53.2	33.5
*45.0	365.2	165.6	16.990	54.1	34.3
50.0	362.8	168.0	16.990	54.4	34.5
55.0	362.2	168.6	16.990	54.5	34.6
60.0	359.2	171.6	16.990	54.8	34.9
65.0	356.7	174.1	16.990	55.0	35.2
70.0	355.3	175.5	16.990	55.2	35.3
75.0	353.1	177.7	16.990	55.4	35.5
80.0	350.3	180.5	16.990	55.6	35.7
85.0	348.6	182.2	16.990	55.8	35.9
*90.0	345.8	185.0	16.990	56.0	36.1
95.0	344.2	186.6	15.993	56.2	36.3
100.0	342.1	188.7	14.997	56.4	36.4
105.0	340.8	190.0	14.096	56.5	36.5
110.0	339.2	191.6	13.194	56.6	36.7
115.0	337.6	193.2	13.194	56.8	36.8
120.0	336.0	194.8	13.194	56.9	36.9
125.0	334.0	196.8	13.194	57.1	37.1
130.0	333.7	197.1	13.194	57.1	37.1
*135.0	333.1	197.7	14.096	57.1	37.2
140.0	334.0	196.8	14.997	57.1	37.1
145.0	339.4	191.4	15.993	56.6	36.7
150.0	341.7	189.1	16.990	56.4	36.5
155.0	344.6	186.2	16.990	56.1	36.2

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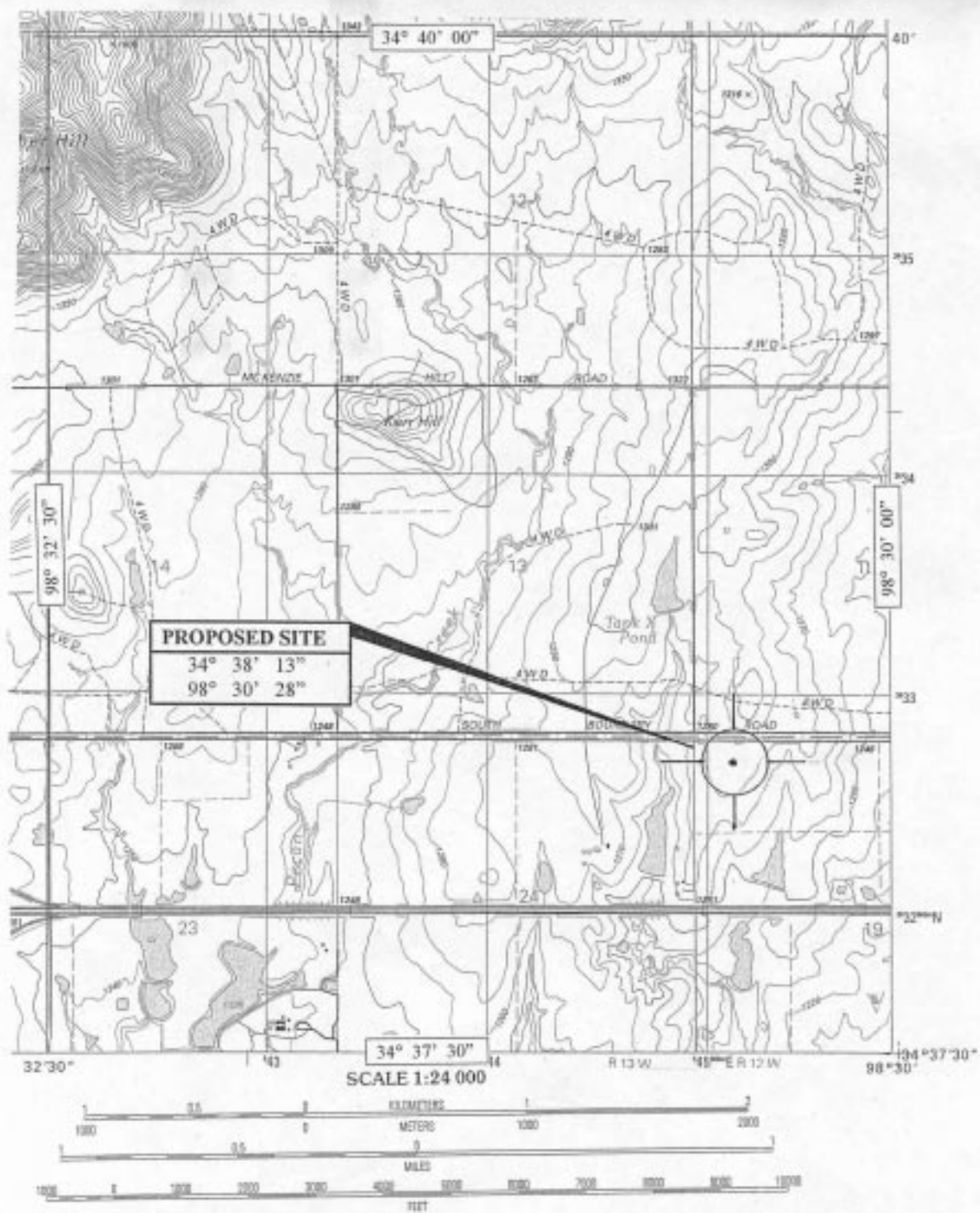
Exhibit E, Figure 2

ERP = 50.0 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Ave. Elev.		Effective		Distance to	Distance to
Azimuth	3 to 16 km	Antenna Height	ERP	60 dBu Contour	70 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
160.0	348.5	182.3	16.990	55.8	35.9
165.0	350.7	180.1	16.990	55.6	35.7
170.0	351.6	179.2	16.990	55.5	35.6
175.0	352.7	178.1	16.990	55.4	35.5
*180.0	350.7	180.1	16.990	55.6	35.7
185.0	350.6	180.2	16.990	55.6	35.7
190.0	355.3	175.5	16.990	55.2	35.3
195.0	359.3	171.5	16.990	54.8	34.9
200.0	354.3	176.5	16.990	55.3	35.4
205.0	355.0	175.8	16.990	55.2	35.3
210.0	355.6	175.2	16.990	55.1	35.3
215.0	356.6	174.2	16.990	55.0	35.2
220.0	357.0	173.8	16.990	55.0	35.1
*225.0	359.3	171.5	16.990	54.8	34.9
230.0	360.6	170.2	16.990	54.6	34.8
235.0	364.5	166.3	16.990	54.2	34.4
240.0	461.2	69.6	16.990	53.8	34.0
245.0	370.4	160.4	16.990	53.5	33.7
250.0	373.9	156.9	16.990	53.1	33.4
255.0	378.0	152.8	16.990	52.6	32.9
260.0	381.5	149.3	16.990	52.1	32.5
265.0	383.8	147.0	16.990	51.8	32.3
*270.0	386.0	144.8	16.990	51.5	32.0
275.0	389.7	141.1	16.990	51.0	31.6
280.0	395.7	135.1	16.990	50.1	31.0
285.0	402.4	128.4	16.990	49.2	30.3
290.0	415.2	115.6	16.990	47.3	29.0
295.0	437.4	93.4	16.990	43.6	26.3
300.0	460.6	70.2	16.990	38.8	23.0
305.0	466.4	64.4	16.990	37.5	22.2
310.0	477.3	53.5	16.990	34.7	20.4
*315.0	483.2	47.6	16.990	32.7	19.2
320.0	467.5	63.3	16.990	37.3	22.0
325.0	465.5	65.3	16.990	37.7	22.3
330.0	472.7	58.1	16.990	36.0	21.2
335.0	460.9	69.9	16.990	38.8	23.0
340.0	461.2	69.6	16.990	38.7	22.9
345.0	465.5	65.3	16.990	37.7	22.3
350.0	457.9	72.9	16.990	39.4	23.4
355.0	431.7	99.1	16.990	44.6	27.0

Avg. of 8 = 380.8 M 150.0 M

Antenna Radiation Center AMSL = 530.8 M

* Only eight cardinal radials used in terrain averaging



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 TO CONVERT FROM FEET TO METERS, MULTIPLY BY 0.3048

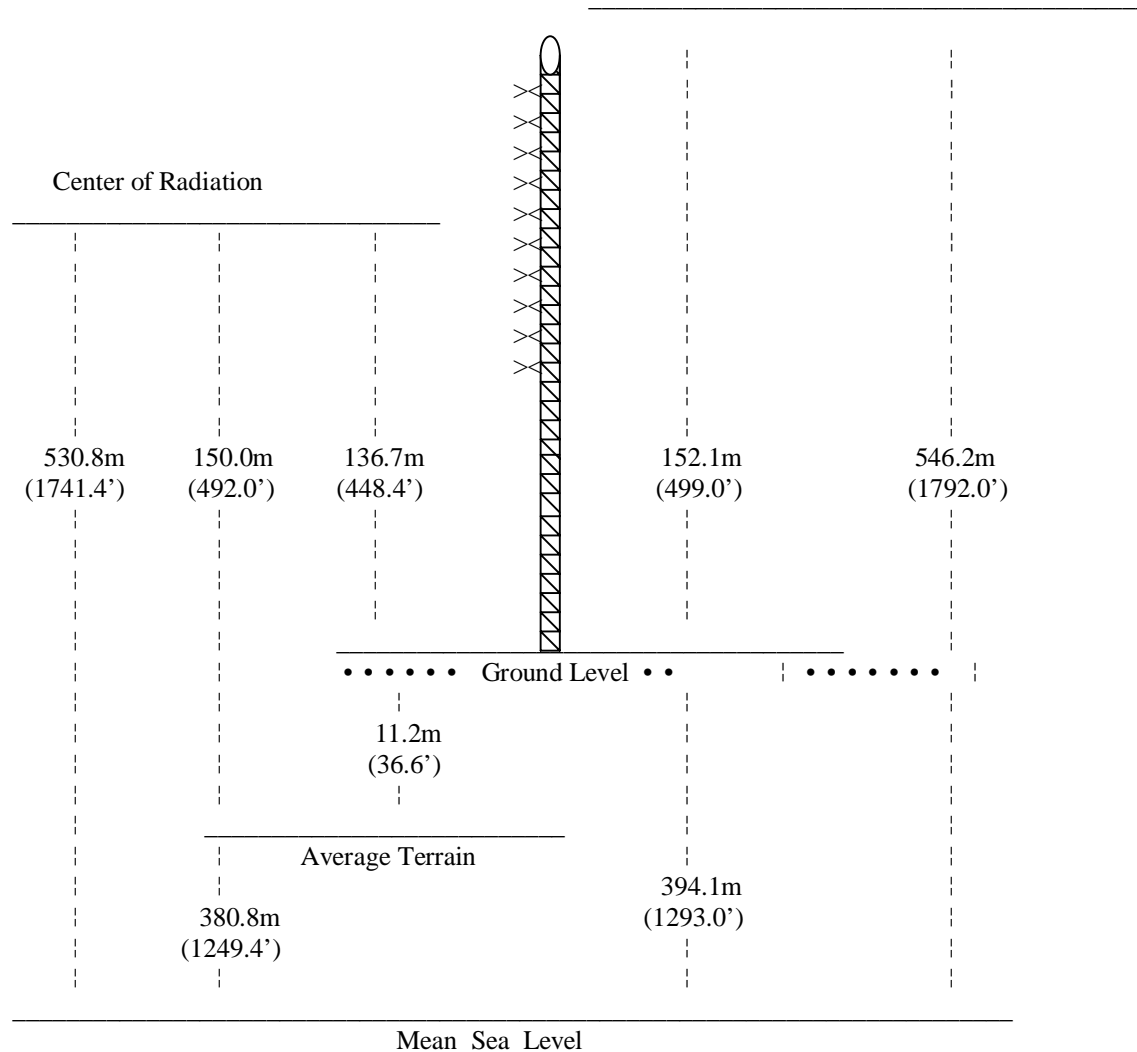


MOUNT SCOTT, OK
 1997

NIMA 4252 II NZ-SERIES V883

Exhibit E, Figure 3
Proposed
Site Map

"Pat-Tower"
 KVRW (FM)
 Lawton, Oklahoma
 Channel 297C2 - 107.3 MHz
 February, 2001



Proposed Location - 34° 38' 13" N. Lat. 98° 30' 28" W. Long. [NAD 27]

NOT DRAWN TO SCALE

Proposed antenna - 10 element.

Exhibit E, Figure 5 Vertical Sketch of Supporting Structure
"Pat-Tower" KVRW (FM) Lawton, Oklahoma Channel 297C2 – 107.3 mHz. February, 2001

