

Table 1 - 73.207 Channel Study
KHCU CONCAN, TX - HOUSTON CHRISTIAN BROADCASTERS, INC.
MINOR MODIFICATION February 2024 (Ch.226C3 proposed)

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Req. Dist. (km)	Clearance (km)	
223	C2	KRPT	FM	L-L2C	DEVINE	TX	US	IHM LICENSES, LLC	136.1	89.0	56	33.0	
225	C1	KROM	FM	L-L2C	SAN ANTONIO	TX	US	TICHENOR LICENSE CORPORATION	100.2	140.0	144	-4.0	(See Table 2)
226	C3	KHCU	FM	L-L2C	CONCAN	TX	US	HOUSTON CHRISTIAN BROADCASTERS, INC.	297.6	6.7	153	-146.3	
227	A	KSAG	FM	C-MOD	PEARSALL	TX	US		138.2	88.4	89	-0.6	(See Table 2)
227	C	KGSR	FM	L-MOD	CEDAR PARK	TX	US	WATERLOO MEDIA GROUP, L.P.	49.7	212.0	176	36.0	

Distance separations determined per §73.208(c)

Distance to Mexican border: 107 km.

Table 2 - 73.215(e) Channel Study
KHCU CONCAN, TX - HOUSTON CHRISTIAN BROADCASTERS, INC.
MINOR MODIFICATION February 2024 (Ch.226C3 proposed)

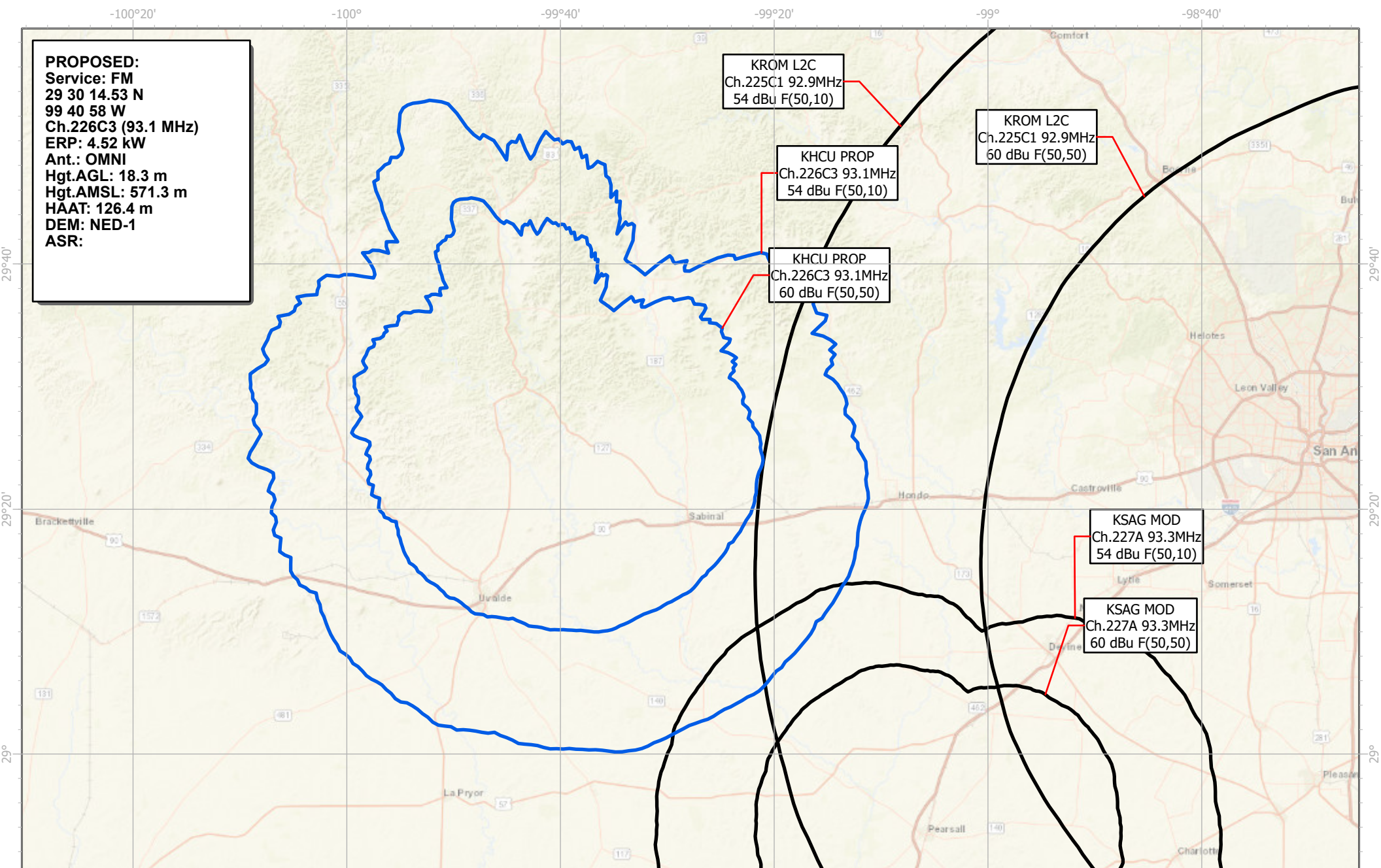
Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Req. Dist. (km)	Clearance (km)
225	C1	KROM	FM	L-L2C	SAN ANTONIO	TX	US	TICHENOR LICENSE CO	100.2	140.0	133	7.0
227	A	KSAG	FM	C-MOD	PEARSALL	TX	US		138.2	88.4	72	16.4

Distance separations determined per §73.208(c)

Distance to Mexican border: 107 km.

Table 3 - Distance separation requirements with respect to Mexican facilities**KHCU CONCAN, TX - HOUSTON CHRISTIAN BROADCASTERS, INC.****MINOR MODIFICATION February 2024 (Ch.226C3 proposed)**

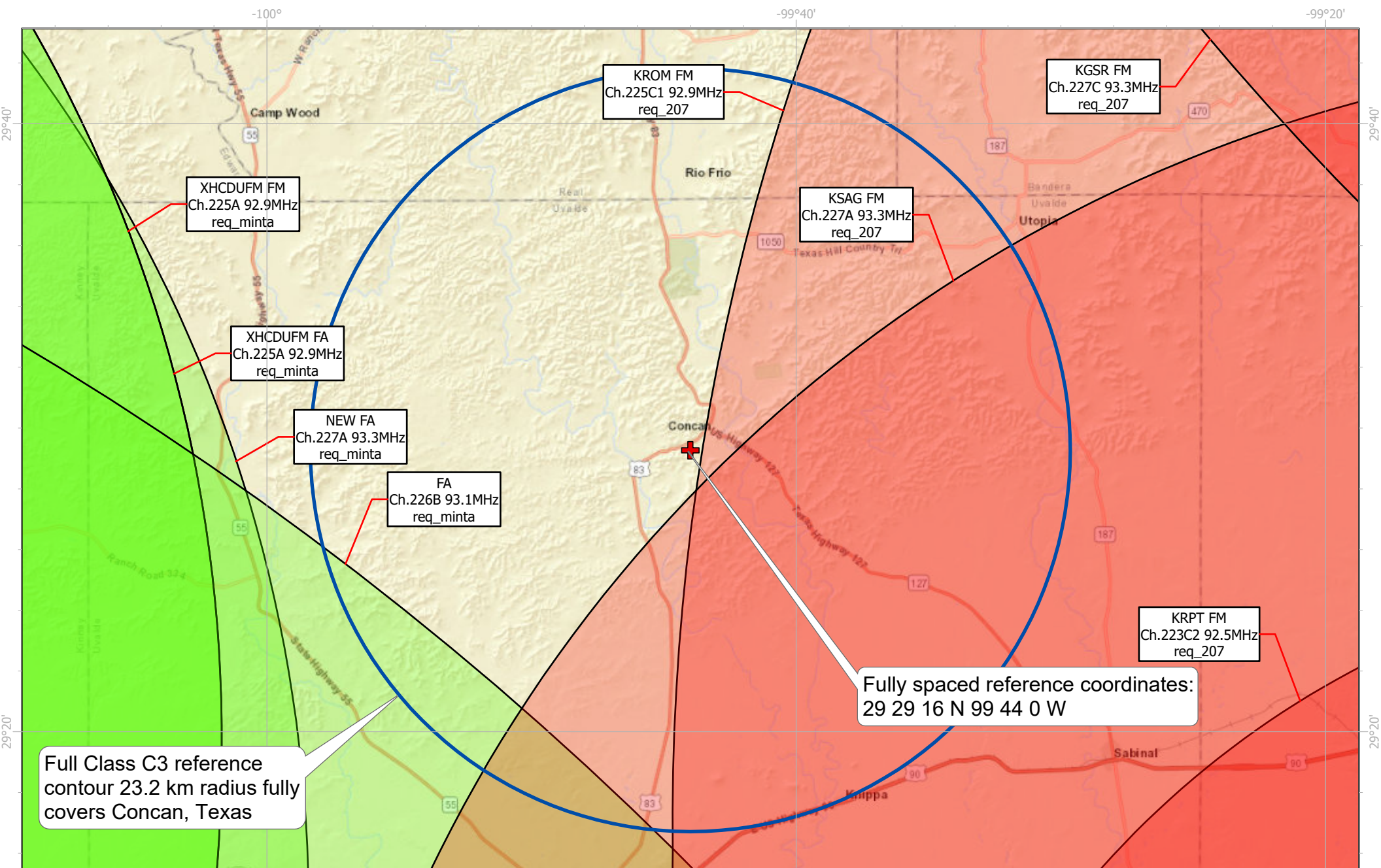
Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Intl. Ag. Req (km)	Clearance (km)
223	A		FA	C-ALLOT	SAN IGNACIO	TA	MX		175.2	274.0	48	226.0
224	A	NEW	FA	C-ALLOT	MELCHOR MUZQUIZ	CI	MX		224.7	253.9	48	205.9
225	A	XHCDUFM	FA	C-ALLOT	CIUDAD ACUNA	CI	MX		261.0	122.8	88	34.8
225	A	XHCDUFM	FM	C-L2C	CIUDAD ACUNA	CI	MX		261.0	122.8	88	34.8
225	A	NEW	FA	C-ALLOT	SAN JOSE	CI	MX		274.1	258.0	88	170.0
225	A	NEW	FA	C-ALLOT	LAMPAZOS	NL	MX		196.5	286.5	88	198.5
226	B		FA	C-ALLOT	NUEVA ROSITA	CI	MX		221.3	233.5	211	22.5
227	A	NEW	FA	C-ALLOT	EL VENADITO	CI	MX		255.7	119.7	88	31.7
229	A		FA	C-ALLOT	FUENTE	CI	MX		222.0	129.2	48	81.2
229	A		FA	C-ALLOT	COLOMBIA	NL	MX		182.1	199.8	48	151.8
229	A	NEW	FA	C-ALLOT	SAN JOSE	CI	MX		274.1	258.0	48	210.0
229	A	NEW	FA	C-ALLOT	LAMPAZOS	NL	MX		196.5	286.5	48	238.5
279	A	NEW	FA	C-ALLOT	PIEDRAS NEGRAS	CI	MX		223.4	122.0	11	111.0
280	C		FA	C-ALLOT	CIUDAD ACUNA	CI	MX		261.0	122.8	31	91.8



KRCU CONCAN, TX Proposed Channel 226C3 (93.1 MHz)
HOUSTON CHRISTIAN BROADCASTERS, INC. - MINOR MODIFICATION

73.215(a) contour protection with respect to KROM and KSAG. Proposed KRCU facility meets protection to full station class reference for both facilities.

Robert J. Robbins, Ph.D.
www.radiodataservices.com
radiodataservices@radiodataservices.com
(305) 234-9309



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0 3.75 7.5 15 Kilometers

Figure 2.1

Demonstration of fully-spaced hypothetical location meeting 73.207 required spacings (RED) and required minimum spacing with respect to Mexican facilities (GREEN). Full Class C3 reference contour (BLUE) would fully cover community of license Concan, Texas.

Robert J. Robbins, Ph.D.
www.radiodataservices.com
radiodataservices@radiodataservices.com
(305) 234-9309



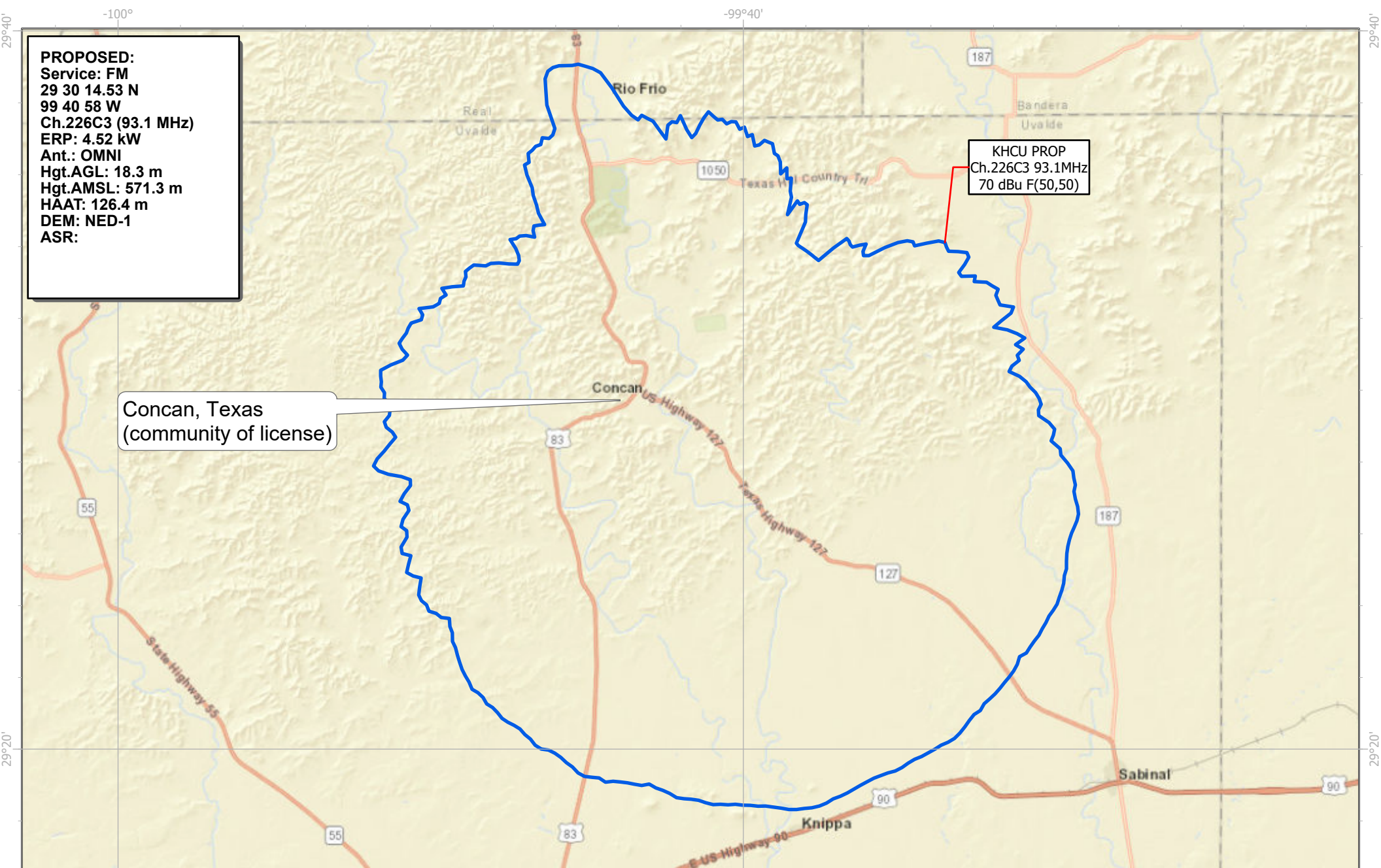
KHCU CONCAN, TX Proposed Channel 226C3 (93.1 MHz)
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Fully-spaced hypothetical location.

0 0.17 0.35 0.7 Kilometers

Figure 2.2

Robert J. Robbins, Ph.D.
www.radiodataservices.com
radiodataservices@radiodataservices.com
(305) 234-9309



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Community of license showing.

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Figure 3

Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)
KHCU (Proposed)	18.3	ERI LPX-4 (EPA Type 3)	4	4.52	4.52	99.8	9.98%	99.8	49.9%	6.4
						99.8	9.98%	99.8	49.9%	6.4

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FMModel (Revised version)