

Engineering Statement in support of
FCC FORM 340
APPLICATION FOR CONSTRUCTION PERMIT FOR RESERVED CHANNEL
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION
(Minor Modification of construction permit)
BPED 19970807MY
KSSX 213A, Facility ID 87937

Introduction:

This is an application by Sister Sherry Lynn Foundation, Inc., (the Applicant) for a minor modification to a construction permit BPED 19970807MY, KSSX 213A (FIN-87937).

The applicant proposes the following changes:

- Move the transmitter facility to 34° 54' 33" North, 97° 57' 30" West (NAD-27).
- Change the class from A to C3.
- Increase Maximum ERP to 10kW.
- Specify parameters for a directional antenna.

The proposed changes are minor since there is no change in frequency and the proposed site is 11.6 km from the authorized site. The proposed location is mutually exclusive with the authorized site.

The current Construction Permit was not awarded based on preferences, therefore there is no holding period.

All calculations were performed using USGS 3-arc-second terrain data.

Section VII Engineering Data:

Tech Box Data:

1. Channel: 213
2. Class: C3
3. Antenna Location: 34° 54' 33"N 97° 57' 30"W See site map, Illustration 1.
4. Assignment Location: Not Applicable
5. ASR: Registration pending a Determination of No Hazard from the FAA.
6. Overall Tower Height: 92 meters AGL
7. Radiation Centerline: 466 meters (H) 466 meters (V) AMSL
8. Radiation Centerline: 85 meters (H) 85 meters (V) AGL
9. Radiation Centerline: 98 meters (H) 98 meters (V) HAAT (based on USGS-3 arc-sec data)
10. ERP: 10.0 kW (H) 10.0 kW (V)
11. Max ERP: Not Applicable
12. Directional Antenna: No Rotation, see Illustration 2 for relative field values.
13. Main Studio Location: Yes
14. Community Coverage: Yes, see Illustration 3.
15. Interference: Yes
 - a) 73.509 contour protection: Yes, see Illustrations 4 - 9.
 - b) 73.207 spacing: Yes.
 - c) 73.213 grandfathered short-spaced: Not Applicable.
 - d) 73.215 contour protection: Not applicable.
 - e) 73.525 TV-6 protection: Yes, see Illustration 10.
16. Reserved Channel above 220: Not Applicable.
17. International Border: Yes, the location is NOT within 320km of an international border.
18. NEPA
 - a) To the best knowledge of the Applicant:
 1. The proposed structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species.
 2. The site is not located in a flood plain and is not expected to require significant changes in surface features such as wetland fill, deforestation or water diversion.
 - b) The applicant is pursuing an archaeological study to demonstrate that the proposed facility will not affect districts, sites, buildings, structures or objects significant in American history, architecture, engineering or culture that are listed in the National Register of Historic Places, or eligible for listing.
 - c) Tower construction notification was made to Indian Tribes via the FCC WTB system.
 - d) Application for a hazard determination has been made with the FAA. The structure illumination requirements will be determined by the FAA. Tower registration will be made upon receipt of a Determination of No Hazard.
 - e) The Applicant will cooperate with all site users, managers and owners with regard to the cessation of operation or the reduction of operating power, whenever it is necessary to comply with the FCC Regulations and Guidelines on Human Exposure to Non-Ionizing RF Radiation.
 - f) Calculations performed using RF Worksheet #1 indicate that the percentage of FCC rf limit is 9.7% for this site. Therefore the proposed facility is in compliance with 47 C.R.R. Section 1.1306 with regards to radio-frequency electromagnetic exposure.
19. Community of License change: Not Applicable.

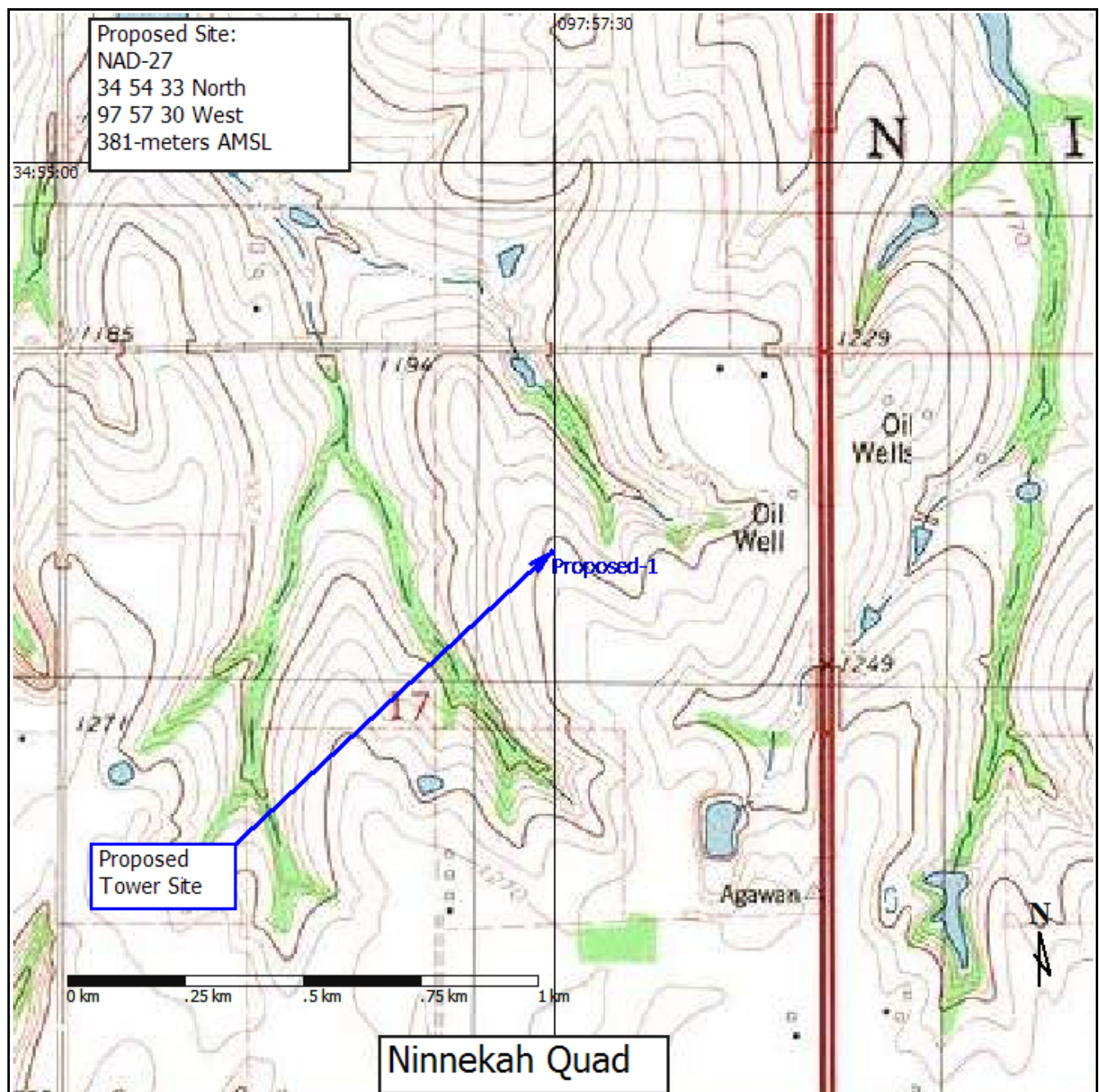


Illustration 1: Site Map.

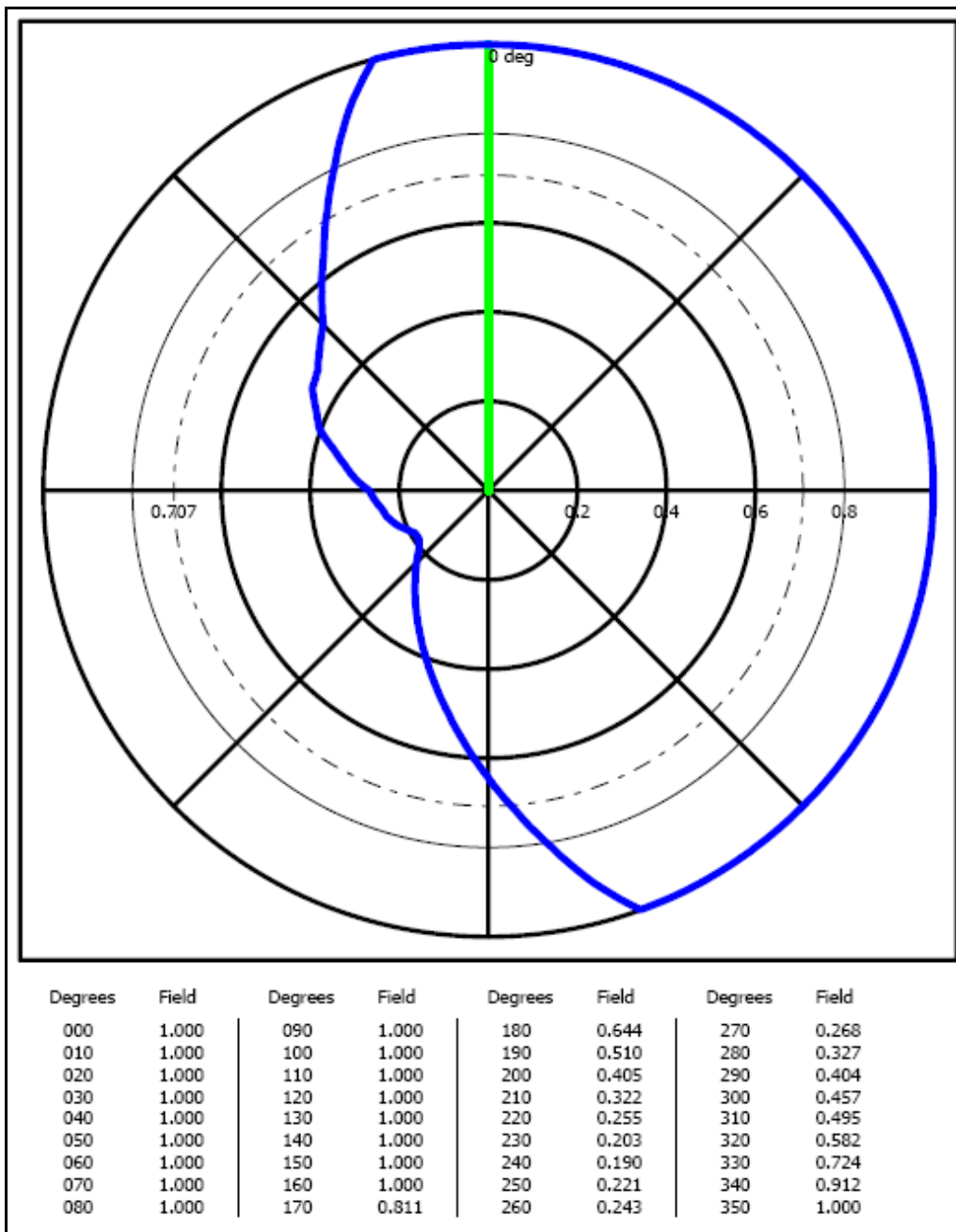


Illustration 2: Directional Antenna Pattern and Field Values.

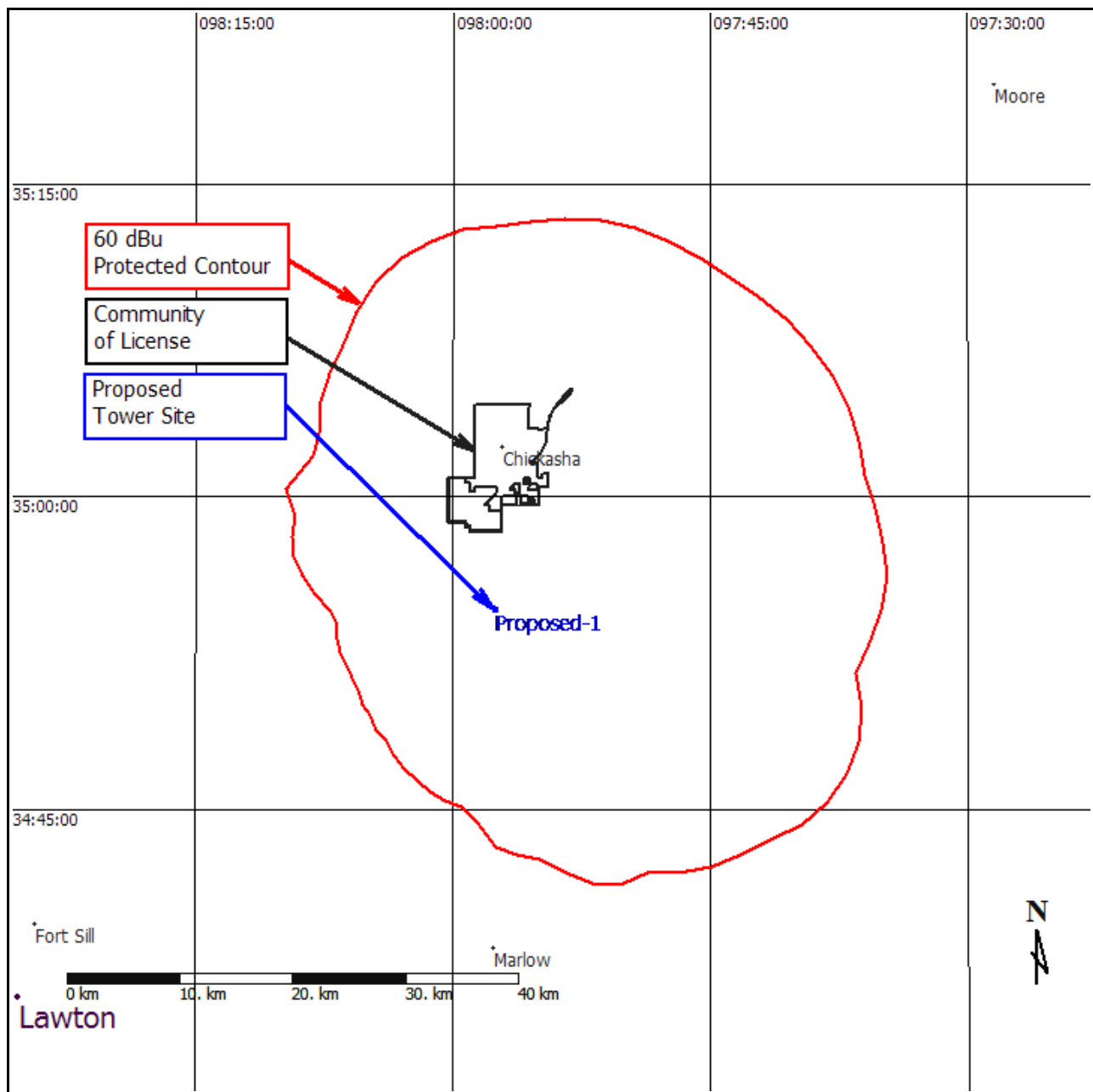


Illustration 3: Coverage of Community of License

Callsign	Adjacency	Bearing Degrees	Distance km	Channel	Horiz ERP kW	Vert ERP kW	HAAT meters	Class	City	State	Status	Owner	Latitude (NAD27)	Longitude (NAD27)
KAYM	Co-Chan	313	96.23	213 90.5 MHz	2.7	2.7	86	A	WEATHERFORD	OK	LIC	AMERICAN FAMILY ASSOCIATION	N35:29:47	W098:44:10
KZKL	Co-Chan	206	124.44	213 90.5 MHz	7	7	131	C3	WICHITA FALLS	TX	LIC	EDUCATIONAL MEDIA FOUNDATION	N33:53:50	W098:32:33
KVRS	1st Adj	246	36.06	212 90.3 MHz	0	13.5	96	C3	LAWTON	OK	CP	AMERICAN FAMILY ASSOCIATION	N34:46:34	W098:19:05
KVRS	1st Adj	239	60.96	212 90.3 MHz	0	1	57	A	LAWTON	OK	LIC	AMERICAN FAMILY ASSOCIATION	N34:37:32	W098:31:43
KFXT	1st Adj	114	98.43	214 90.7 MHz	7	7	91	C3	SULPHUR	OK	LIC	SISTER SHERRY LYNN FOUNDATION, INC.	N34:32:57	W096:58:34
KJRF	3rd Adj	212	28.81	216 91.1 MHz	10	10	126	C3	LAWTON	OK	LIC	THE CHRISTIAN CENTER INC	N34:41:22	W098:07:34

Illustration 4: Facilities Requiring Investigation.

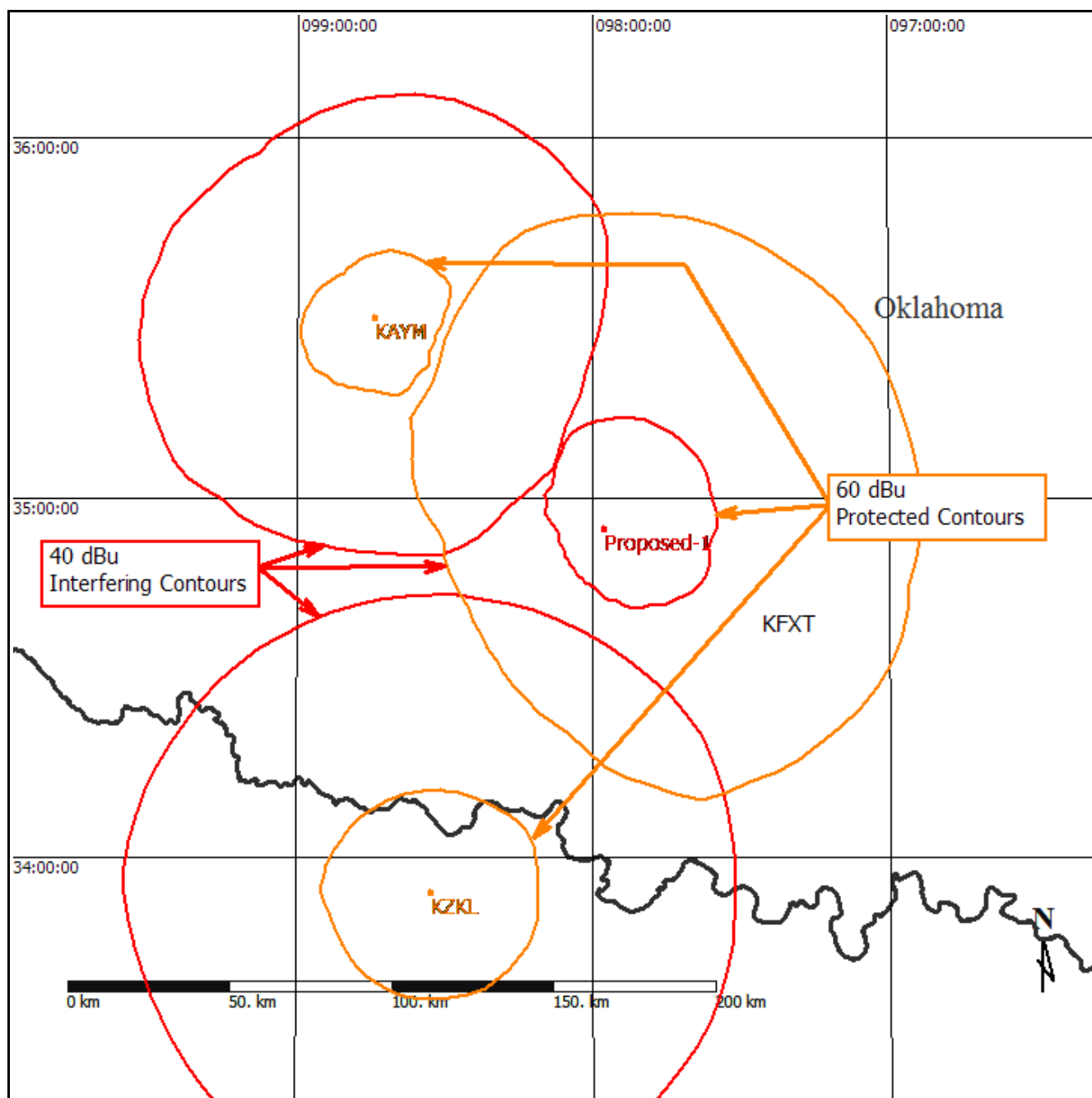


Illustration 5: CoChannel Contour Protection.

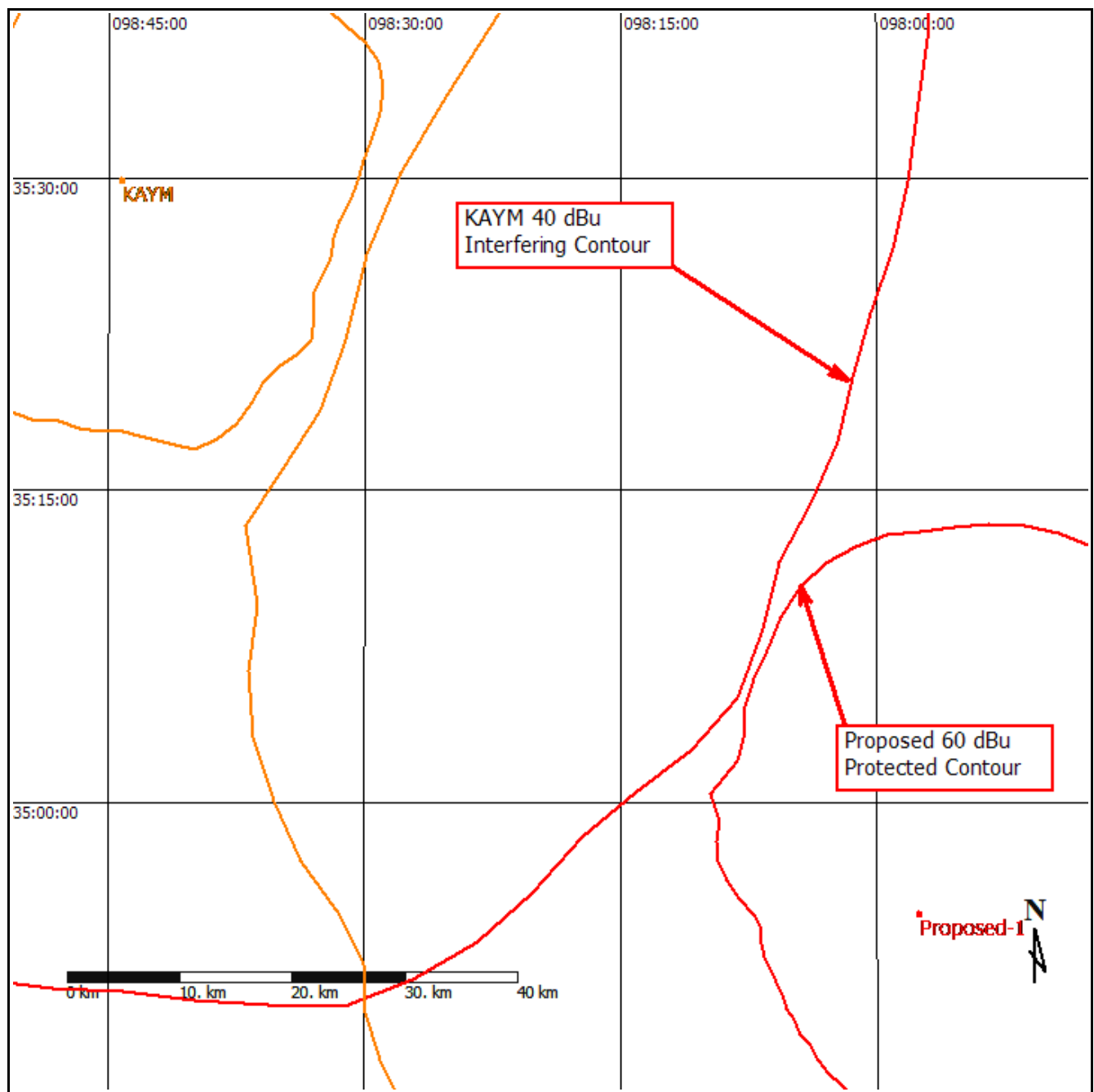


Illustration 6: Close-up, CoChannel Contour Protection.

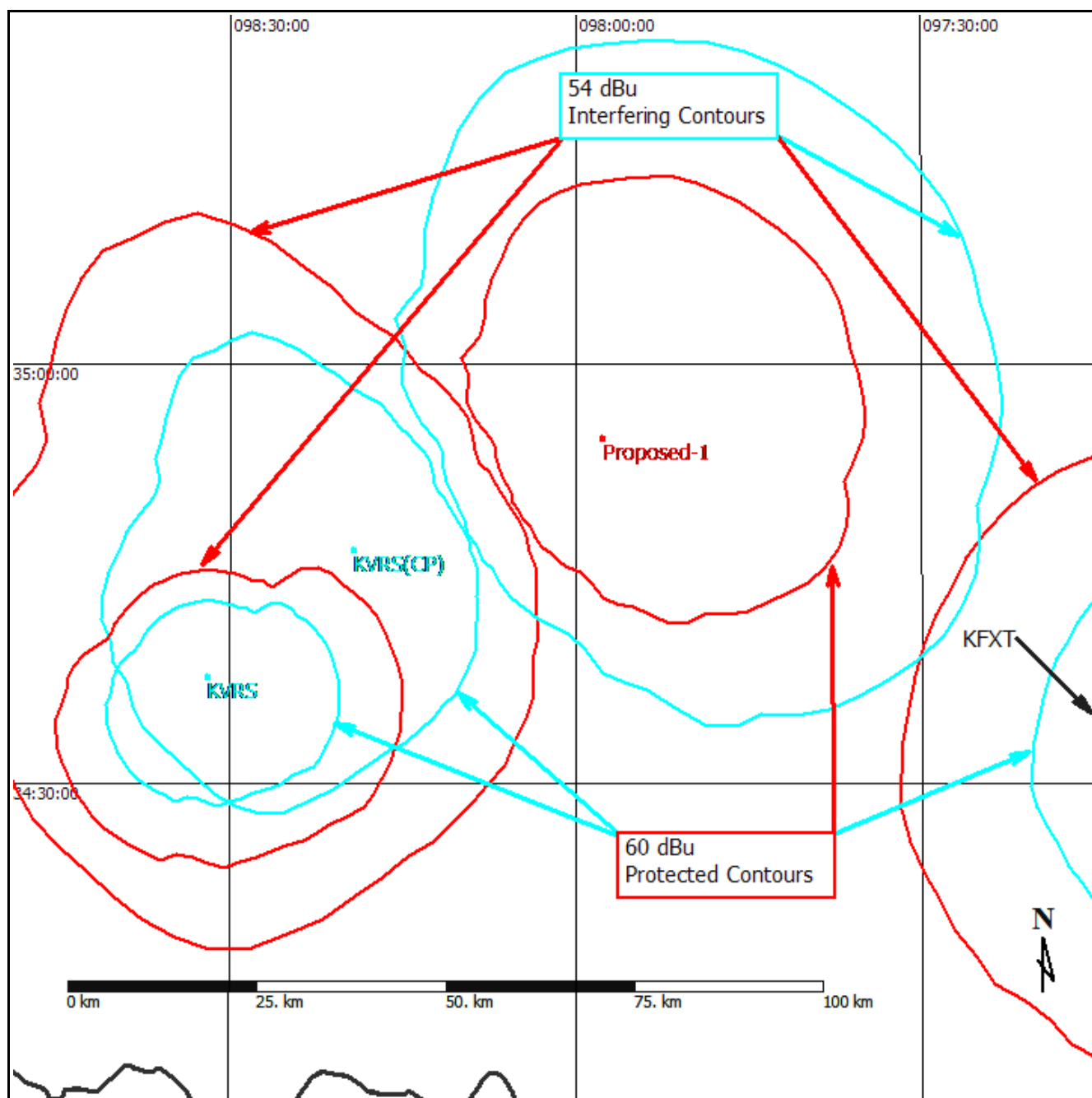


Illustration 7: First Adjacent Contour Protection.

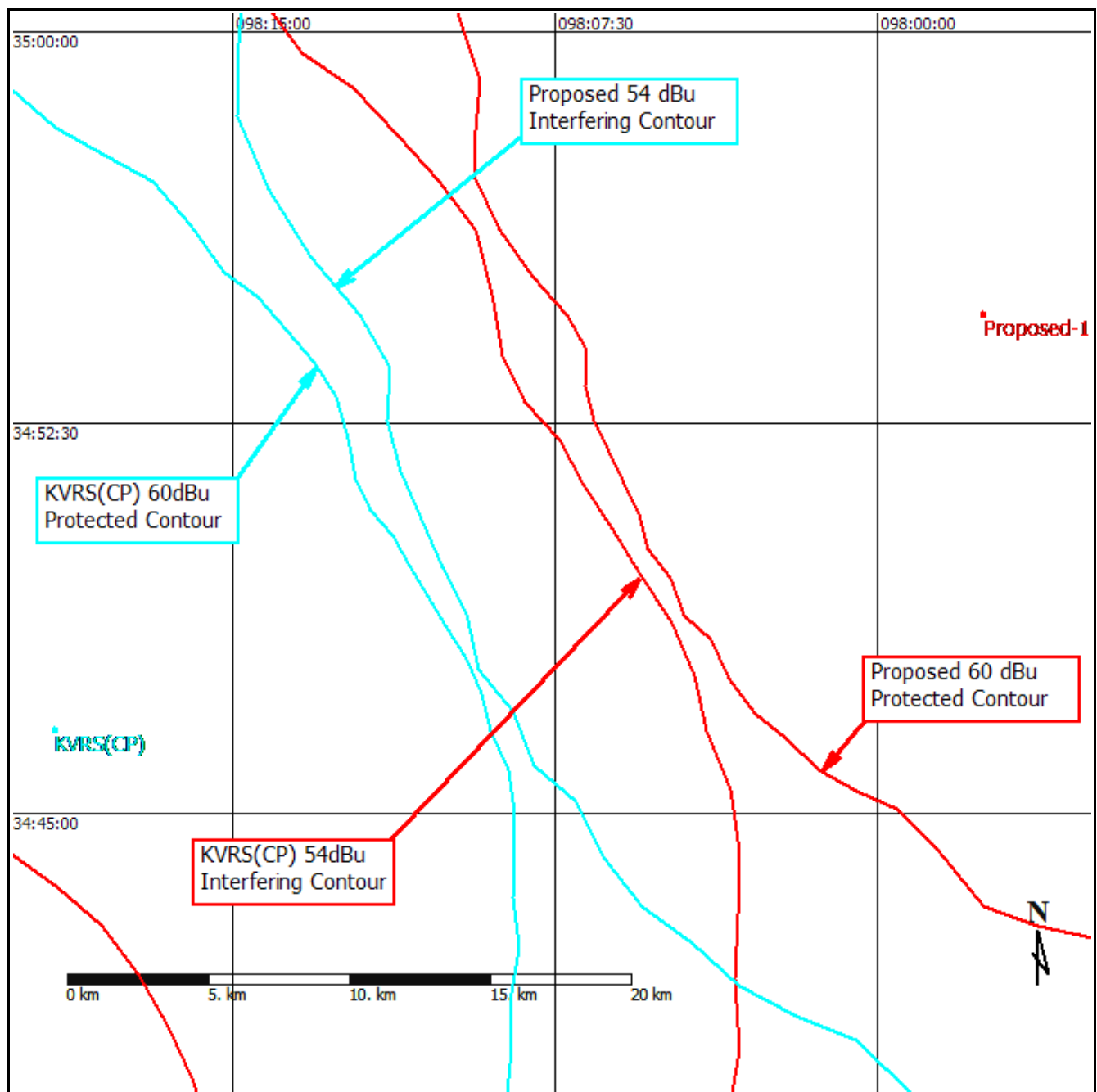


Illustration 8: Close-up, First Adjacent Contour Protection.

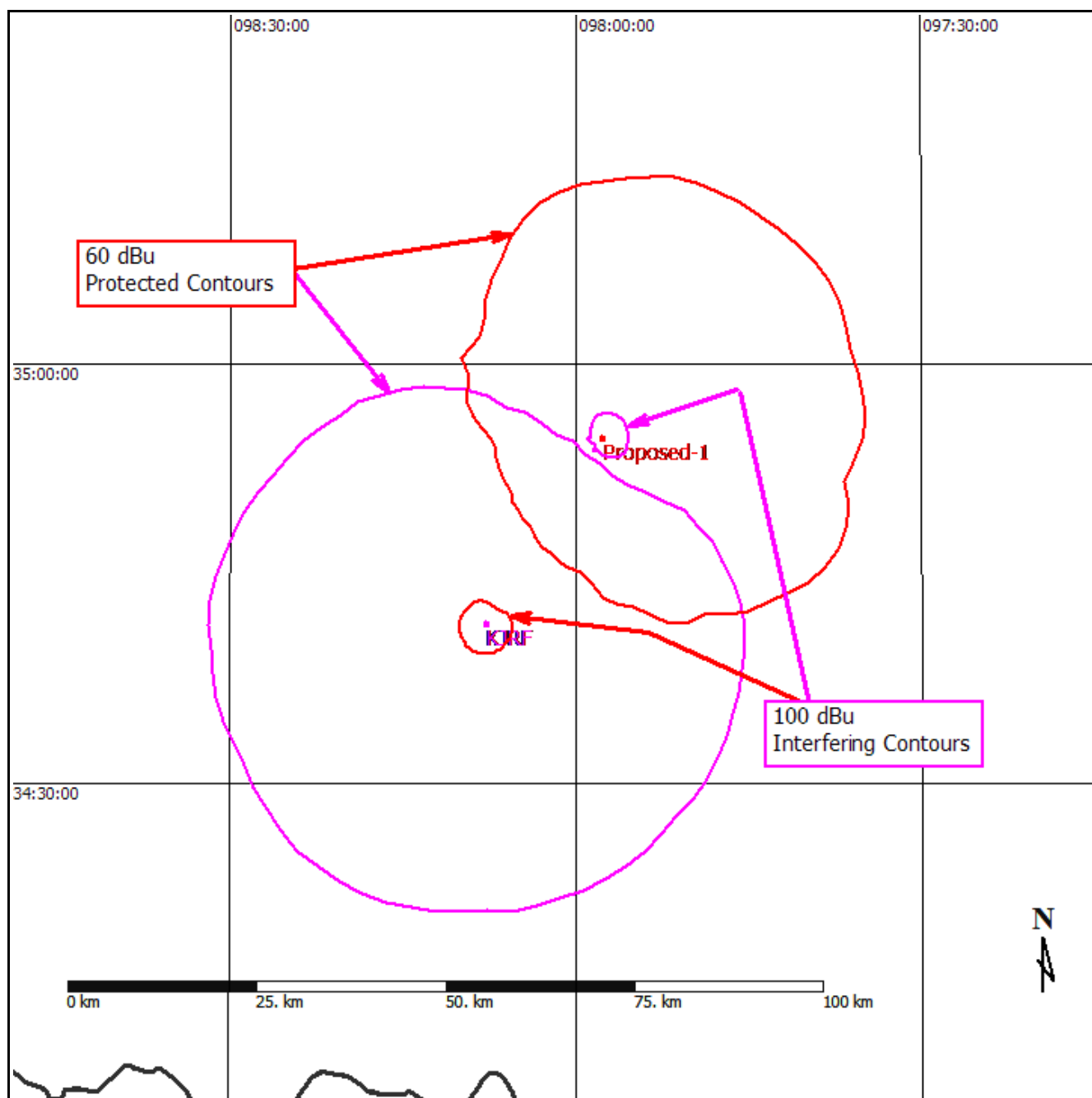


Illustration 9: Second/Third Adjacent Contour Protection.

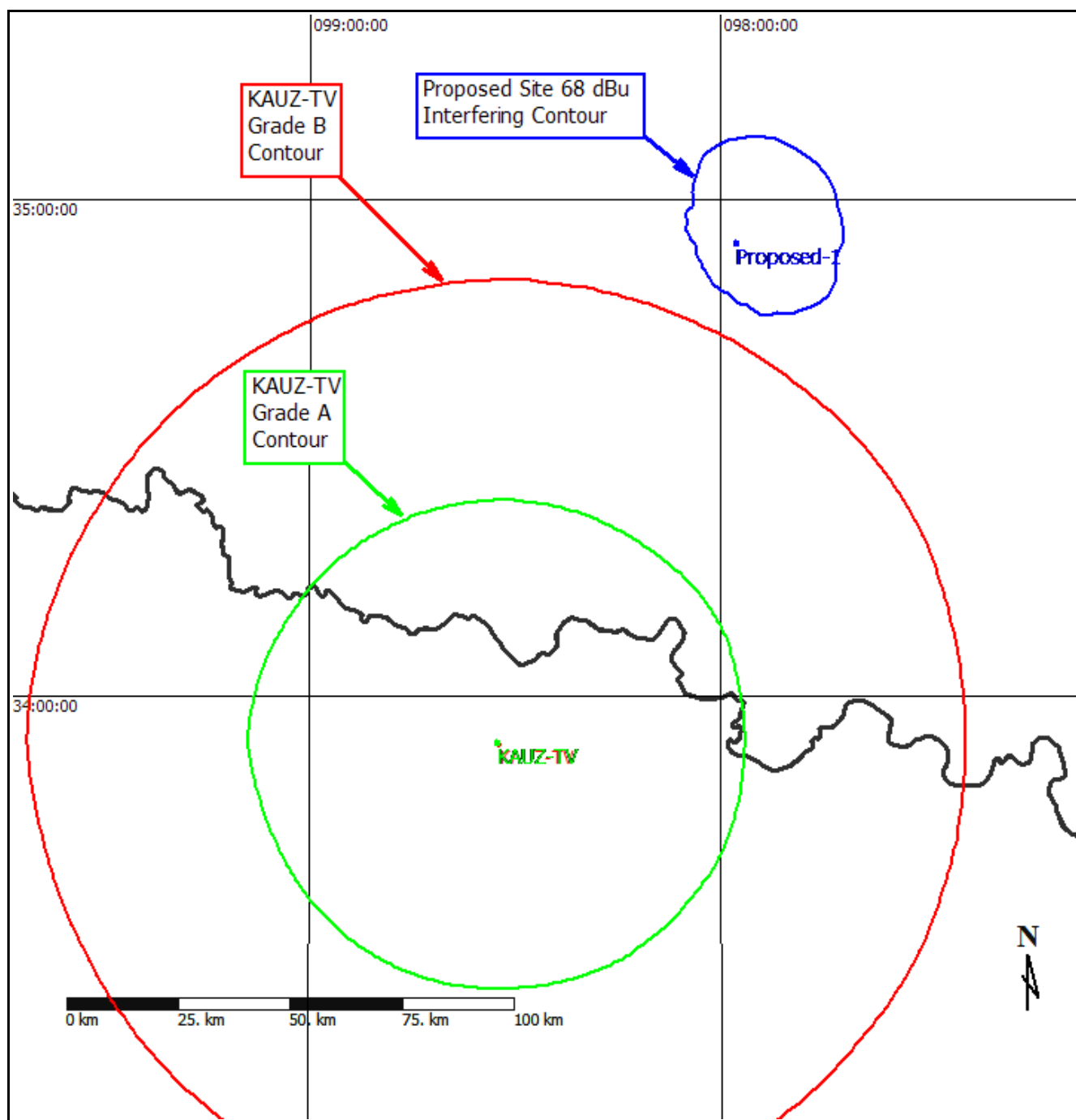


Illustration 10: TV-6 Analysis