

Geographic Coordinate System (WGS84)

## Exhibit 13.2

### Vertical Plan of Antenna System

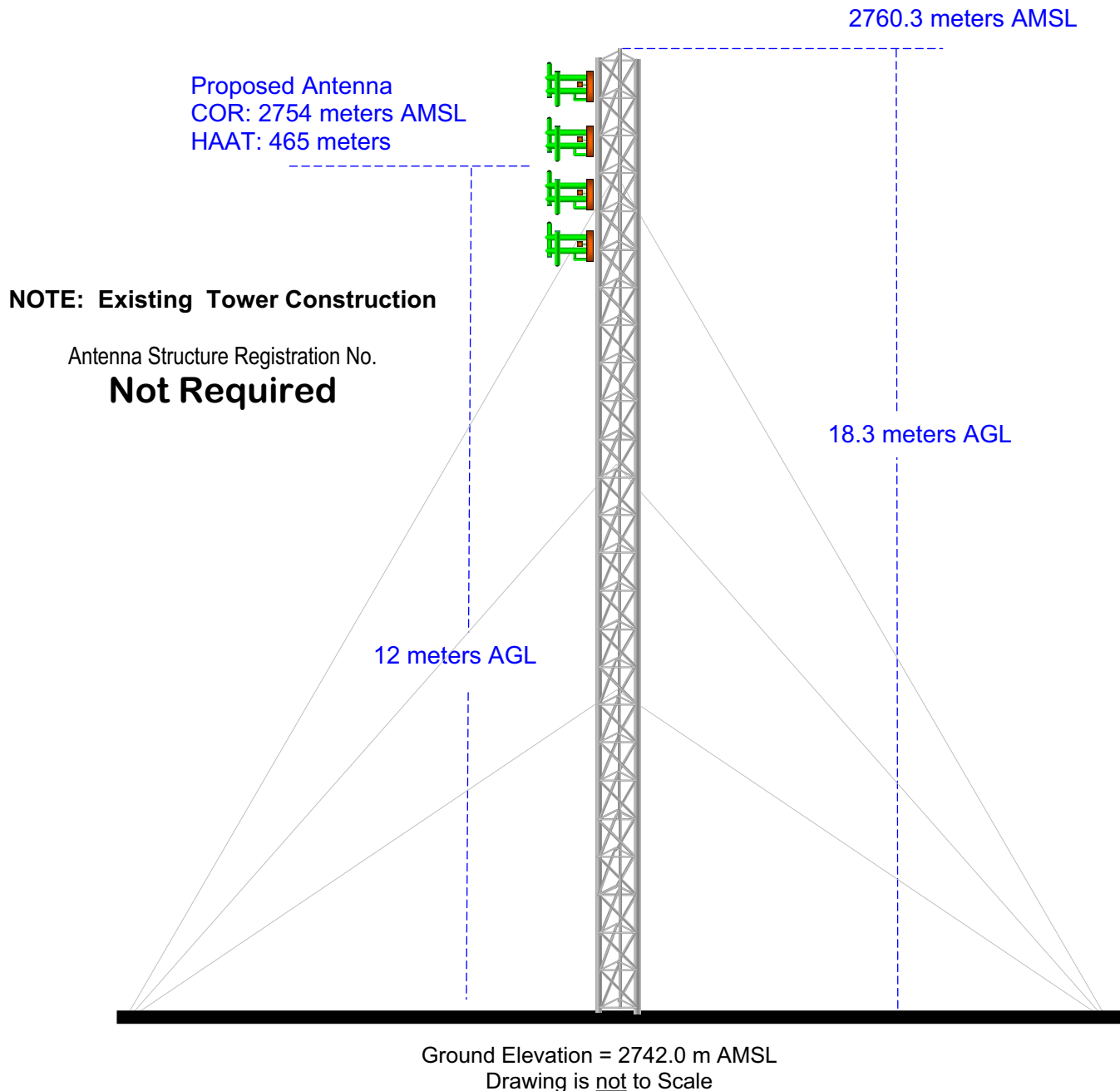
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The site is located at:  
NE1QUARTER, SE1QUARTERSEC18, TWSHP32, RANGE1WEST,  
the city of Dulce, Rio Arriba County, New Mexico.

Site Location (NAD 27)

NL: 36° 59' 00"

WL: 106° 58' 12"



**MUNN-REESE, INC.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## EXHIBIT 13.3

### PROPOSED FM OPERATING SPECIFICATIONS

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**Applicant:** Jicarilla Apache Tribe

**Call:** KCIE(FM)

**City of License:** Dulce, NM

**Frequency:** 90.5 MHz    **Channel:** 213C1    **ERP:** 10.0 kW    **HAAT:** 465 m

**Transmitter Location:** NE1QUARTER, SE1QUARTERSEC18, TWNSHP32, RANGE1WEST,

**City:** Dulce

**County:** Rio Arriba

**State:** New Mexico

**Site Coordinates:** NL 36° 59' 00" / WL 106° 58' 12" (NAD 1927)

**Tower Registration Number:** not required

**Proposed Operation:** Class C1

**Effective Radiated Power:** 10.0 kW (H)    10.0 kW (V)

**Height of Antenna Radiation Center Above:**

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Ground</u>
<b>Horizontal</b>	465 meters	2754 meters	12 meters
<b>Vertical</b>	465 meters	2754 meters	12 meters

**Elevation of Tower Site** : 2742.0 Meters AMSL

**Overall Height of Structure Above Ground** : 18.3 Meters AGL

**Overall Height of Structure Above Mean Sea Level:** 2760.3 Meters AMSL



KCIE.P  
Proposed Operation  
Latitude: 36-59-00 N  
Longitude: 106-58-12 W  
ERP: 10.00 kW  
HAAT: 465 m  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 2754.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

60 dBu Contour  
Total Population: 19,891  
Total Area: 11794.14 sq. km

KCIE.L  
BLED19901001KA  
Latitude: 36-59-00 N  
Longitude: 106-58-12 W  
ERP: 0.10 kW  
HAAT: 468.0 m  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 2757.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

60 dBu Contour  
Total Population: 3,078  
Total Area: 1129.42 sq. km

## Exhibit 13.4 Present & Proposed Service Contour Study

Terrain  
1579 4258 m

Proposed 60 dBu Contour

Present 60 dBu Contour

KCIE.P  
KCIE.L

Dulce

Chama

Pagosa Springs

Archuleta

Conejos

Antonito

Bayfield

Ignacio

Monte

64

Bloomfield

28

Rio Arriba

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Scale 1:750,000

0 10 20 30 km

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