

Town of Red Cliff
400 Pine Street
PO Box 40
Red Cliff, CO 81649



February 11, 2015

Re: REQUEST FOR QUOTATION

RESPONSES DUE: March 5, 2015 3 PM MT

The Town of Red Cliff, Colorado is issuing this Request for Quotation for Communications Site Engineering Services. The development of a new communications site is intended to support the deployment of broadband internet and other advanced communications services to the citizens of the Town of Red Cliff.

Overview

The town is working with High Country Internet (HCI) to provide middle mile and last mile broadband services to the Town of Red Cliff. The town would like to own and operate a relay site for broadband as well as have an adequate tower structure and power capacity to support additional internet, cellular, or emergency services to the town.

Scope

The Town of Red Cliff has worked with HCI and has identified a parcel of land that is ideal as a relay site for a wireless broadband backhaul link between this site and an HCI site at Ski Cooper. The Town owns an existing tower on the cliff in the middle of town that is a former TV translator site. It is envisioned that this tower will be used for last-mile broadband delivery and continue to serve as the communications site for the Town water system's SCADA. This tower will need to be dropped and another tower installed to utilize this location. Evaluation and specification of proper electrical code grounding compliance for both tower sites is required. Additional tower height and backup power capacity is desired to support additional broadband providers, public safety communications or cellular phone services usage.

Relay Tower Site

Location: N 39° 31' 1.8" W 106° 22' 6.4"

Power: Projected to be a commercially powered site with backup batteries and a generator. Commercial power to the site is available by constructing a new 1300 foot power line to connect with existing Xcel infrastructure at the lower edge of the property.

Proposed Equipment: 2 Ubiquity airFiber5 units, 1 Ubiquity airFiber24 unit, 2 airMAX rocket M Basestations, 2 airMAX Sector Basestation 120 degree Sector Antennas (5 GHz).

Shelter: A small shelter will need to be constructed under the tower to house telecommunications equipment.

Access: The site is located on a steep slope above the town. Best access is via a privately owned and operated dirt road and single track through trees. Summer access is by 4WD vehicle; Winter access is by snowcat or snowmobile.

Existing Tower Site

Location: N 39° 30' 38.9", W 106° 22' 11.6"

Power: Commercial power is currently used at the site.

Proposed Equipment: 1 Ubiquity airFiber24 unit, up to 6 airMAX rocket M Basestations, up to 6 airMAX Sector Basestations 120 degree Sector Antennas (5GHz). Existing SCADA equipment will also need to be retained.

Shelter: An existing shelter building is located at the base of the tower.

Access: Paved and dirt public roads, accessible by vehicle in Summer and by foot/snowmachine in the Winter.

Backup Power: The site currently operates on commercial A/C power only. The Town of Red Cliff desired to have a backup power solution at this location.

Services Requested

1. Relay site design to support wind and weight loading of infrastructure, while accommodating for potential growth with the addition of WISP or cellular services providers' micro-cell or relay system installations or public safety communications equipment.
2. Specifications for a power solution at the relay site.
3. Specifications for relay site ground shelter.
4. Evaluation and estimate of costs to drop and replace the existing damaged Rohn 45 foot tower with an 80 foot tower.
5. Evaluation and specification of proper electrical code grounding compliance at both sites.
6. Estimate all costs for both site designs including: the new relay tower, power solutions, installations and/or repairs, additional building materials for construction, and site updating for regulatory compliance.
7. Specify total estimated construction costs broken out by site.
8. Estimate and specify 15-year maintenance items and costs.

Please submit all proposals electronically to the TRCBOT@AOL.com, with a copy to Nate Walowitz at nwalowitz@nwccog.org. See above for response date and time.