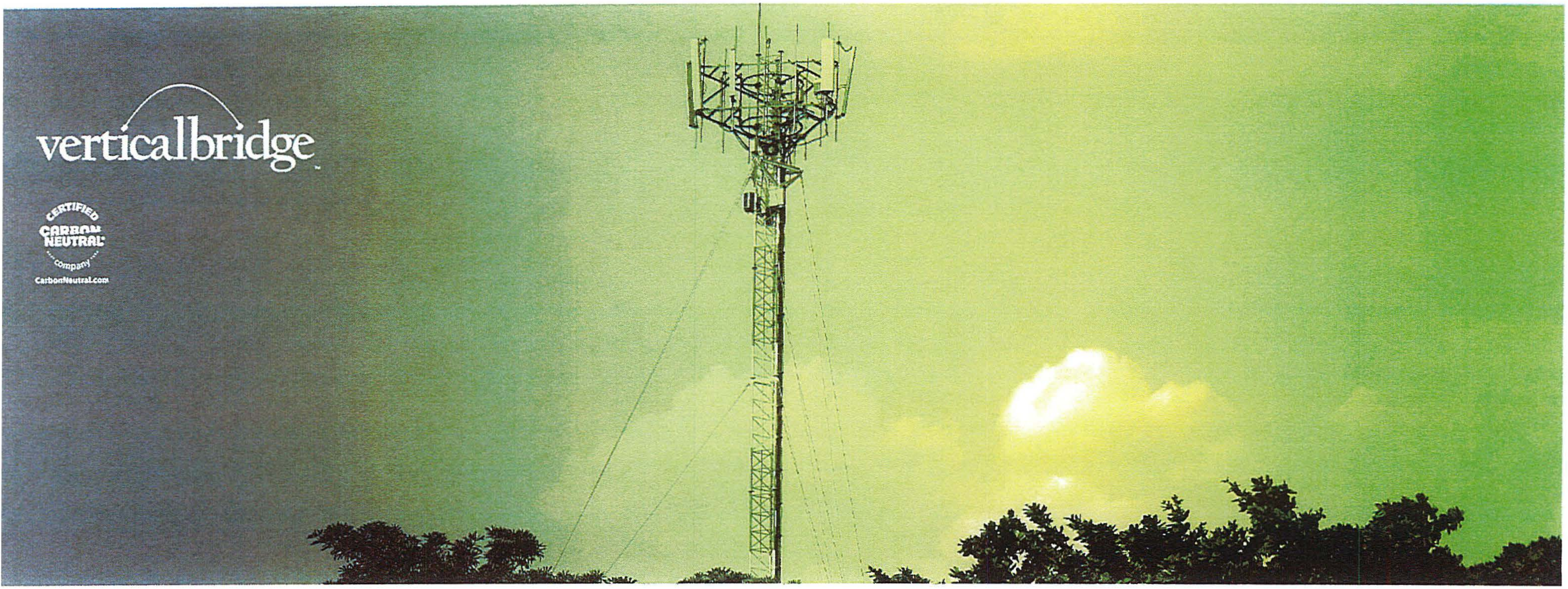


Wireless Telecommunication Tower Presentation

Agenda

verticalbridge

Section	Index
1	Benefits to the Community
2	Proposed Wireless Telecommunications Tower Location
3	Health and Safety
4	Questions?

Benefits to the Community

- Increases Broadband Coverage in the Area.
  - The increased Broadband will benefit the area
- Enhances Public Safety
  - Increased coverage will allow residents of the community and their guests to have better access to emergency services.
  - Improved E-911 triangulation to determine where emergency services are needed if the caller is unable to relay their location.
- Expands Wireless Coverage
  - The site will improve the overall coverage for any collocated carriers in the immediate area and bridge the zero-coverage area
- Tower Available For Additional Carriers
  - The tower will be available to Regional and National Wireless Telecommunication Carriers, Broadband Carriers, Backhaul Providers, and Emergency Service Providers

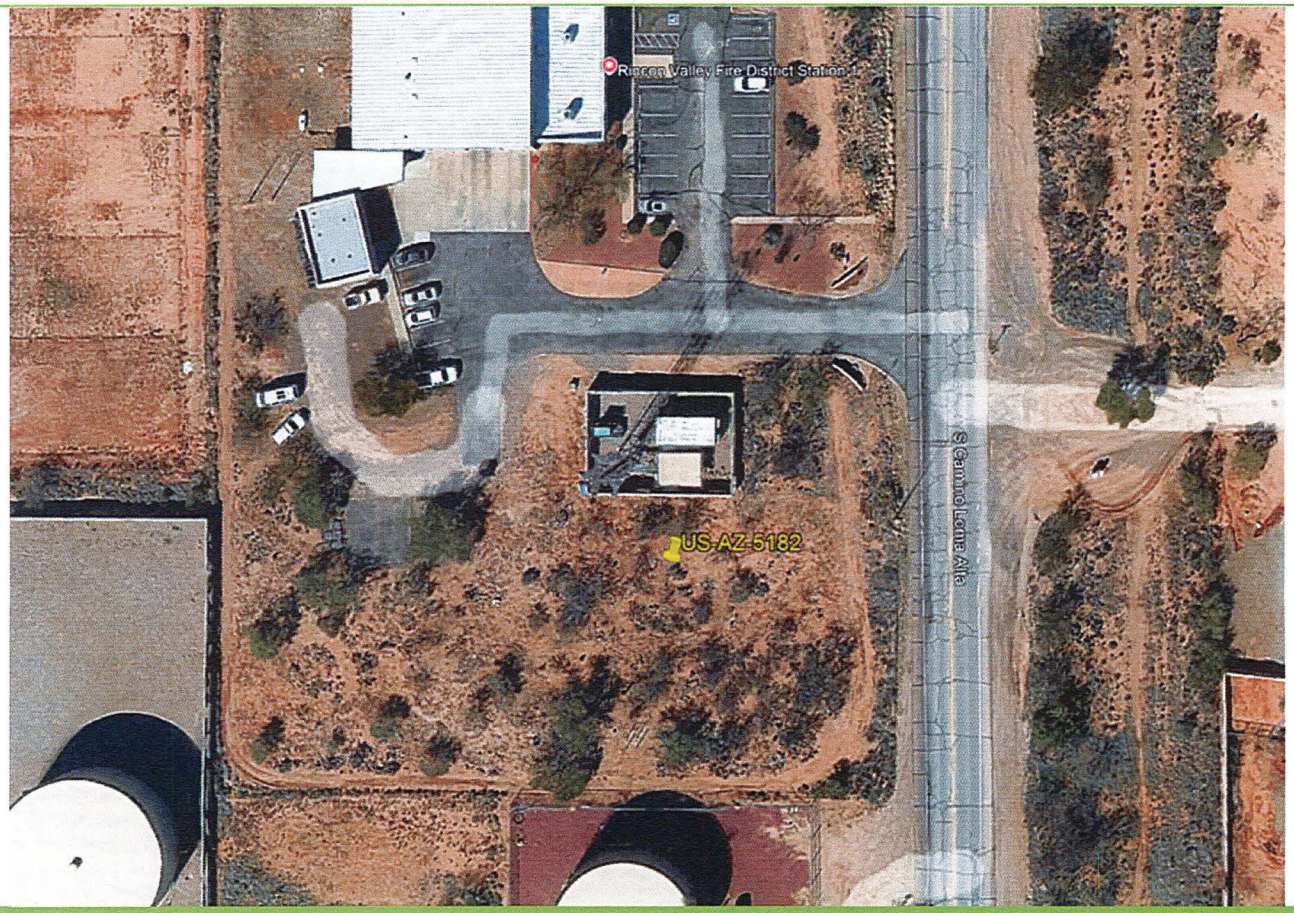
Proposed Wireless Telecommunications Tower Location

US-AZ-5182
(CAMINO DORORTEA)

Lat: 32.090444
Long: -110.687944

8850 S CAMINO LOMA ALTA
TUCSON, AZ 85641

CR-1 (Single Residence Zone)

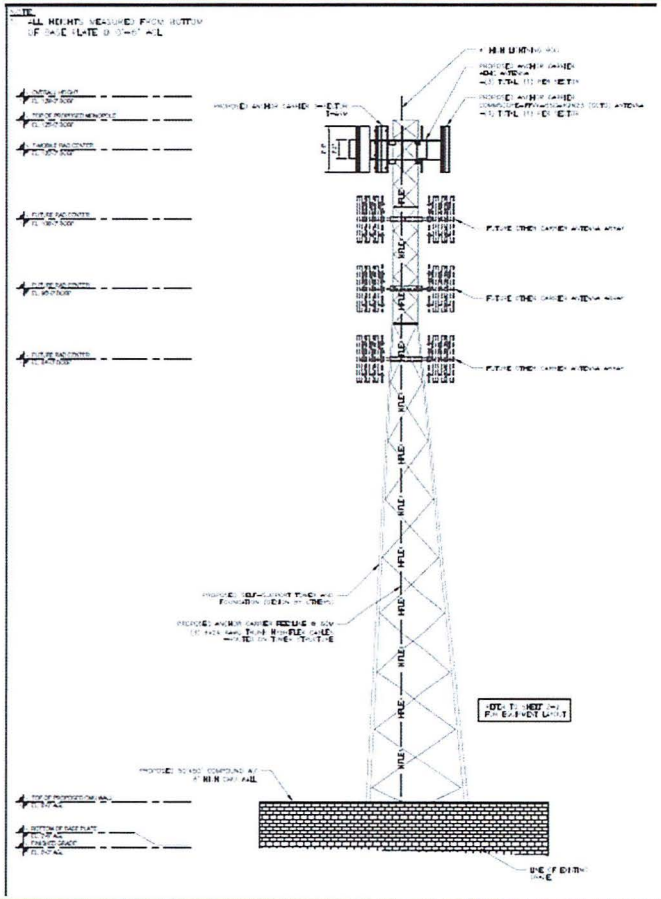


Proposed Tower Design

- **Proposed Design** – Self Support Tower

- **Colocation** - The tower will be designed to be suitable for multiple carriers (1) anchor and (3) others
  - This will help to limit the number of towers required in the area

- **Proposed Tower Height** – 125′ with a 4′ lightening rod



Proposed Compound Layout

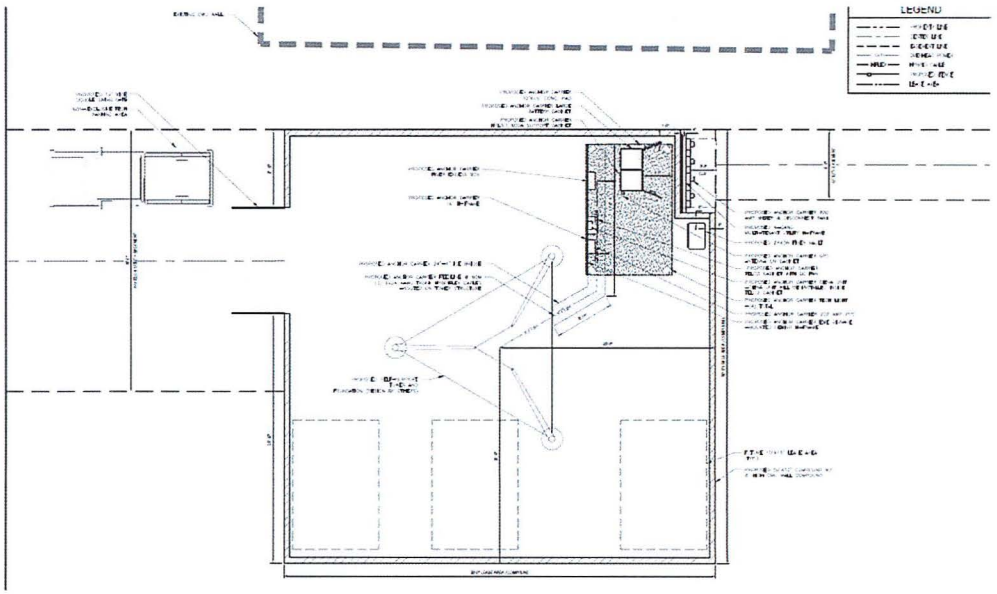
Proposed Lease Area – 50′ x 50′

Fenced Area: 50′ x 50′

Access & Utilities - 30′ wide Non-Exclusive Access and Utility Easement to the main ROW along S Camino Loma Alta

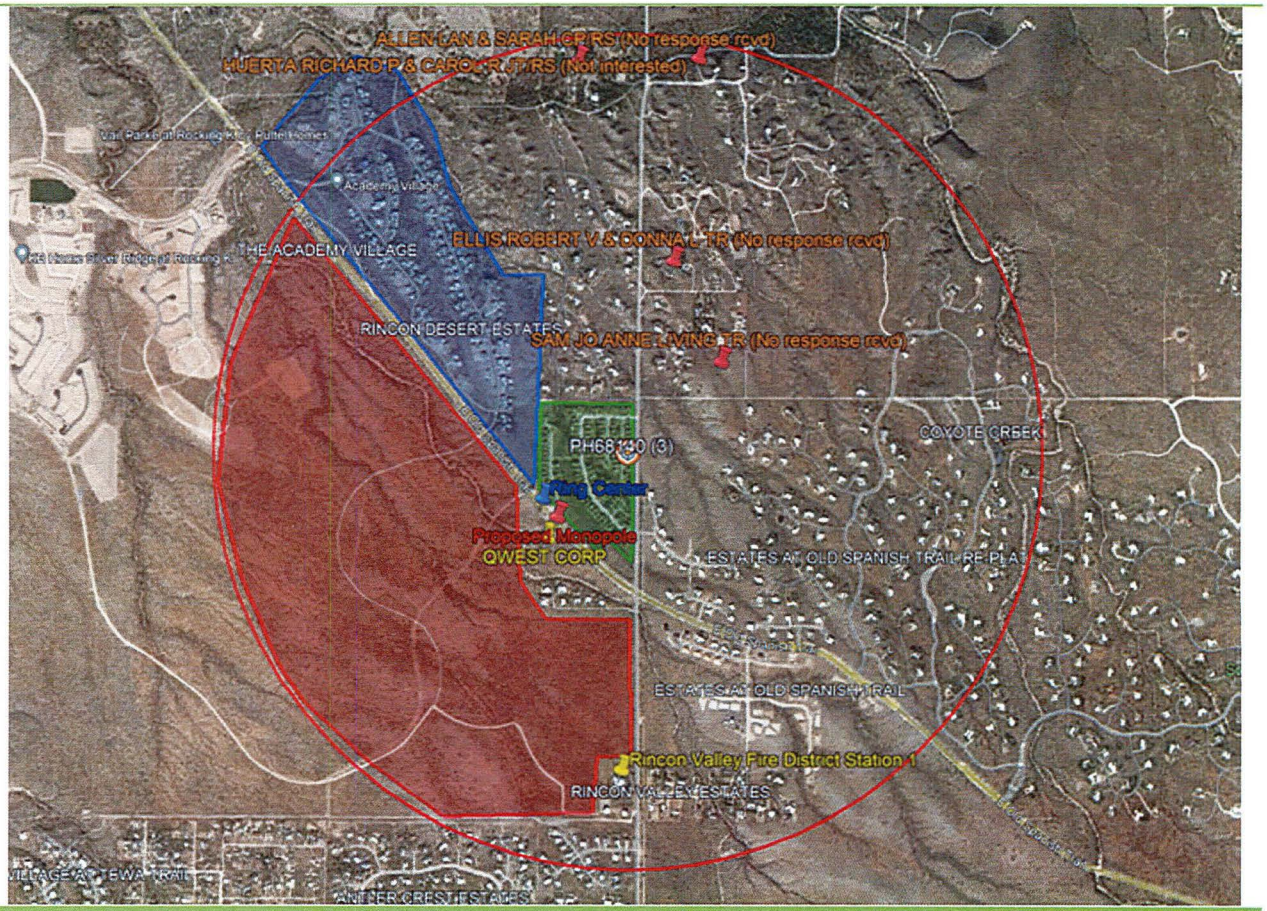
Compound Security – 8′ High CMU Wall

Minimum setback requirements are being met



Collocation and Alternative Location Efforts

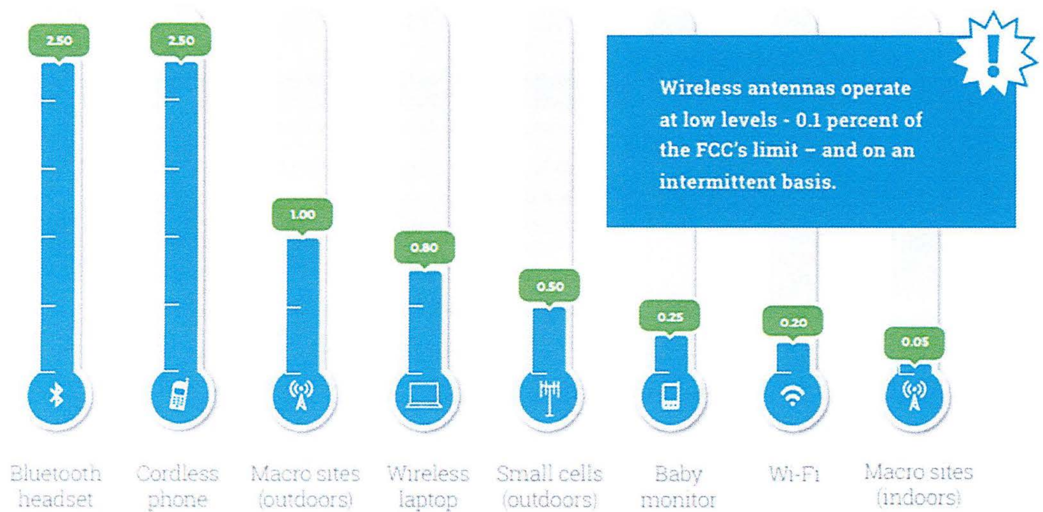
- Colocation on existing tower on same parcel was denied
- There are no other existing registered communication towers within a 2-mile radius of the proposed site.
- Residential, Commercial, and County-owned sites parcels were explored
- P&Z recommending approval



Health and Safety

Radio frequency is everywhere. It enables mobile phones to send texts, routers to power Wi-Fi connections and baby monitors to operate. To protect the welfare of the public, the Federal Communications Commission (FCC) sets maximum permissible radio frequency exposure levels. See how different devices measure up.

COMMON DEVICES AND THEIR RADIO FREQUENCY EMISSIONS



*(μW/CM²) = MICROWATTS PER CENTIMETER SQUARED

Source: Andrew H. Thatcher, Board Certified Health Physicist

Health and Safety (continued)

Telecommunications Act of 1996 & Section 704

- Local zoning authorities cannot deny an application for a wireless facility based on the potential health effects of RF emissions if the facility complies with Federal Communications Commission (FCC) guidelines regarding RF exposure.

- Telecom Act keeps local authorities from making decisions based solely on health effects of electromagnetic fields (EMFs) or radiofrequency (RF) radiation.

But don't just take our word for it. Here's what leading health organizations have to say

AMERICAN CANCER SOCIETY

"Some people have expressed concern that living, working, or going to school near a cell phone tower might increase the risk of cancer or other health problems. At this time, there is very little evidence to support this idea."

WORLD HEALTH ORGANIZATION

"Studies to date provide no indication that environmental exposure to RF fields, such as from base stations, increases the risk of cancer or any other disease."

NATIONAL CANCER INSTITUTE AT THE U.S. NATIONAL INSTITUTES OF HEALTH

"Radio frequency energy, unlike ionizing radiation, does not cause DNA damage that can lead to cancer."

Questions?