



## WIRELESS CONSULTANTS

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Email: [danielle.goldman@mtelecominc.com](mailto:danielle.goldman@mtelecominc.com)**Alternative Site Analysis**

When searching for a site for AT&T "Viejas" search ring, the original goal was to address the coverage objective utilizing the fewest number of installations possible. The site search first attempted to identify preferred zones and land uses, as required by the Municipal Code.

- *Preferred Zones: Industrial and Commercial*  
Within and around the project search ring there are no industrial or commercial zones. The surrounding area is solidly agricultural/residential zoning and land use character of the project area. There are no industrial or commercial sites within the search ring area.
- Preferred Locations:
  - *Public Right of Way / Utility Poles*  
Public right-of-way solutions were sometimes relied upon with earlier generation wireless facilities when the requirements for data capacities were less and quick voice only coverage solutions were acceptable. The current generation AT&T broadband installation requires a minimum of 200 SF of base station area and the capacity to carry 12 panel antennas. No public right-of-way location was identified that could accommodate the AT&T facility required to provide adequate coverage and service level to the target area.
  - *Water Tanks*  
Water tank sites are preferred solutions for wireless sites since they represent a non-residential land use, frequently located within residential communities and located on desirable high ground. Unfortunately, there were no viable water tank facilities in the AT&T Viejas search ring.
  - *Non-Residential Land Uses*  
Opportunities for any non-residential land uses were examined. Our search for non-residential land uses included commercial sites, parks, fire stations, schools, churches, community centers and open space areas. The existing facility is located on agricultural land that is developed with non-residential uses.

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O *Co-location Opportunities*

The existing facility located adjacent to several other carriers, including Verizon, Sprint, and Cricket. Therefore, the property is collocated with multiple carriers, in accordance with the site design preference of the County Municipal Code.

For the proposed modifications, of course alternative sites were not considered; AT&T's existing facility needs to be upgraded rather than install a completely new cell site somewhere in the area. Although the subject facility is located in a non-preferred zone (A70), the existing use by multiple carriers is a preferred location. Furthermore, the antenna location within foliage as a screening mechanism helps to buffer views of the facility from offsite and blend the facility with natural treescape.

Because this is an existing facility, alternative sites were not examined. However, it is important to note that the subject facility serves a vital service in the hand-off of coverage between two other facilities, SD0639 and SD0650, as shown below. The topography increases significantly in elevation, from about 1560' at SD0639 to about 3460' at SD0650. The subject facility sites right in between the two sites, ensuring uninterrupted coverage along the highway.

