



**Orange County for a New
Stealth
Telecommunications Facility**

Project Information and Justification

AT&T is requesting approval of an application for a new, unmanned, stealth and screened wireless facility. The proposed Wireless Telecommunications Facility is for the operation and construction of an unmanned, stealth, wireless telecommunications facility and presents the following project information for your consideration.

Project Name: CLL04972

Project Location

Address: 7431 ½ Santiago
Canyon Rd, Silverado,
CA. 92676
APN: 576-013-02
Land Use: **A-1**
Site Coordinates: 33.748225°, -117.670777°

Authorized Project Representative

David Elliott, Eukon Group
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Irvine, CA 92618
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Property owner

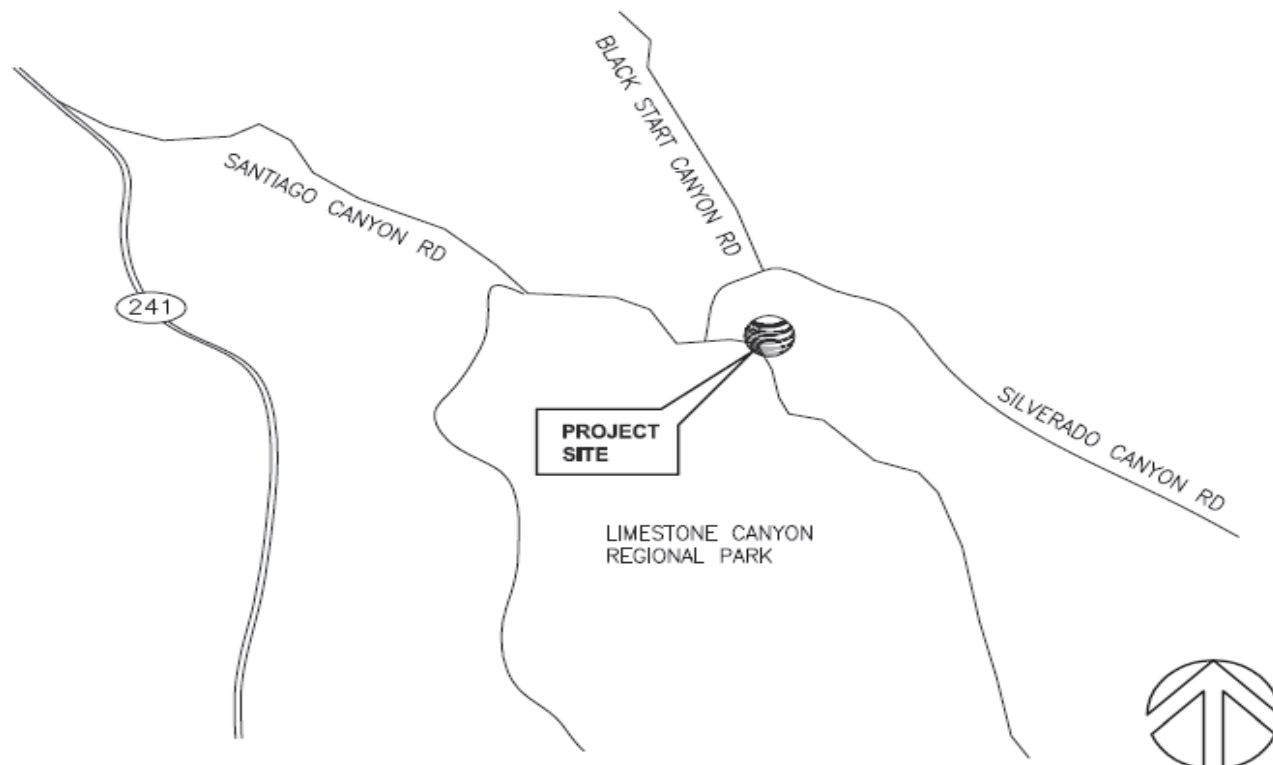
Irvine Ranch Water
District
3512 Michelson Dr.
Irvine, CA. 92612

EukonGroup

Corporate Offices:
65 Post, Irvine, CA 92618
949-55-EUKON Office

Project Description

VICINITY MAP

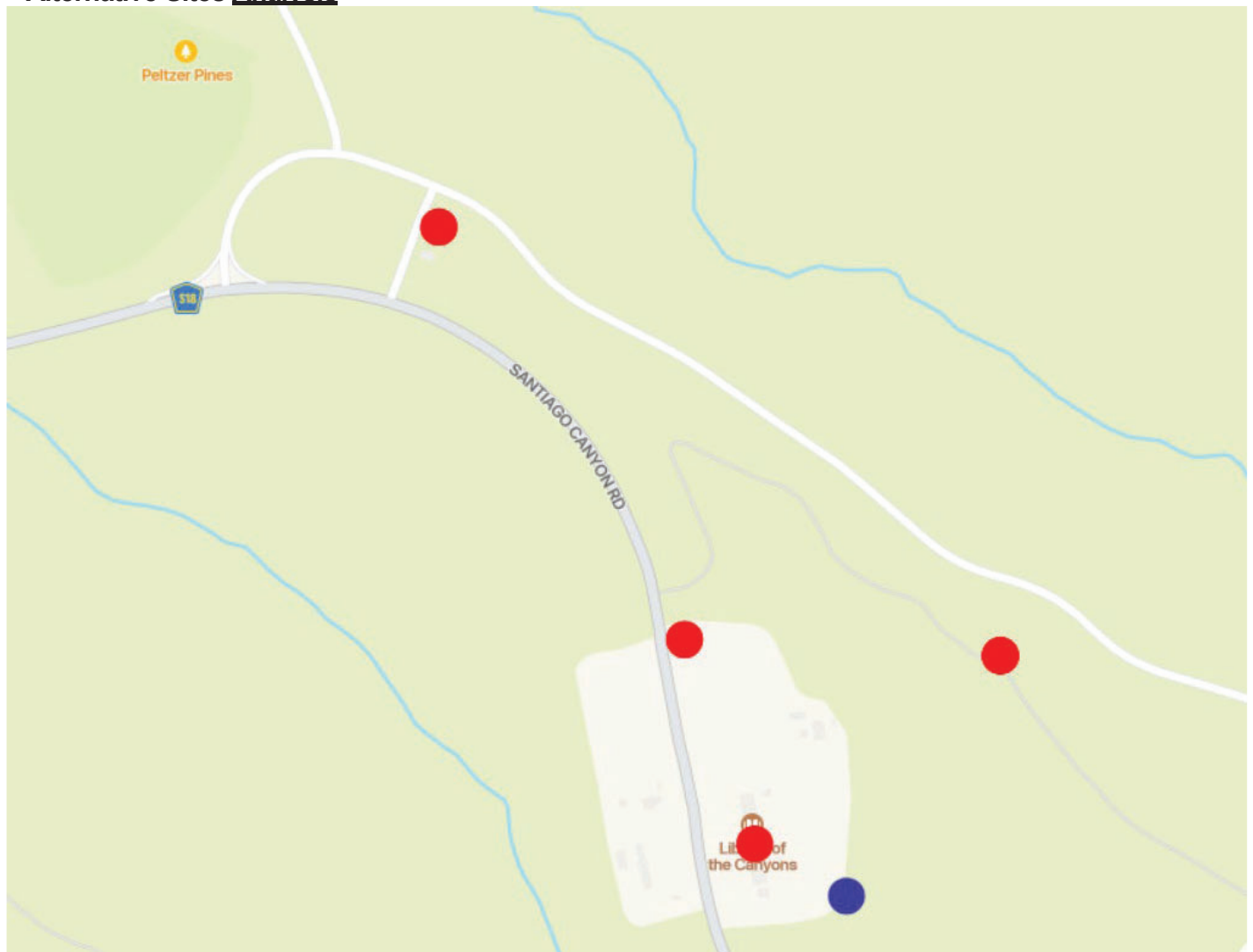


The proposed unmanned, wireless telecommunications facility is in the Irvine Water District's property, next to their water tanks. This employs the least intrusive means of providing much needed signal and coverage to the AT&T network, in this area of the Silverado Canyon. Locating on a stealth monotree tower at grade, from an aesthetic standpoint, with additional landscaping provided by the water district. Additionally, monotrees limit the amount of equipment that carriers and RF engineers can install on the tower, which are needed to get the best coverage and signal possible, and work with the existing wireless facilities in the network and surrounding area- so that signal and calls can be handed off to one another seamlessly, without dropping. The height of the fence has been increased to prevent recorded vandalism in the area, and to completely cover the equipment from view. The standard height of 6' was increased to 8' to capture protection and screening.

The facility location was chosen to fill a specific coverage gap in AT&T's wireless network in Orange County. RF Engineers are trying to improve the existing poor signal and coverage in this rural area of the area proposed. Silverado Canyon Rd. is high traffic location, and it serves as a main route between Limestone Canyon National park, Santiago Canyon and Williams Canyon. Installation of the site will drastically improve coverage in-vehicle and pedestrian level coverage levels, to the north, south, east and west. Coverage maps from RF Engineering department have been submitted for the City's reference, which show the existing conditions, coverage to be

provided by the proposed site, and how deployment of this site would work with the AT&T's network in this part of the County, by receiving and handing off calls and signal between other AT&T sites.

Alternative Sites Analysis



There is only the Irvine Ranch Water District communication within a half mile radius. The other sites are not colocatable, and are located at the OC Library of the Canyons Branch to the south. Therefore, there are no other viable colocatable sites.

Project Objectives

To close a Significant Gap in this area, any combination of the following reasons may apply:

- Coverage: No Service, or insufficient Service in the area (Good, Average, or Marginal) and can apply specifically to the type of service provided (Voice or Data - GSM, 3G, 4G). Specifically, this proposed location addresses the following needs:
 - o Upgrading LTE coverage from predominantly Marginal levels to Good signal levels.
 - o Reducing the incidence of poor call quality or dropped calls when moving from an outdoor setting to an indoor setting.
- Capacity: Existing service is insufficient to meet existing demand by customers in and traversing through the area. Existing facilities servicing the area are overloaded preventing service, dropped calls or complete denial of service during peak usage hours.
- Quality: Service exists but strength of signal is weak, scarce or inadequate for use.

All the points above establish a Significant Gap in the coverage of service provided by AT&T. In this specific case, this location was selected because AT&T Radio Frequency (RF) engineers have identified a capacity gap in the area around the Silverado Canyon Rd. and Santiago Canyon Rd. RF engineers seek to provide coverage to the surrounding area. The proposed site seeks to reduce network stress on the existing AT&T network. As a high-traffic road, this area is experiencing an unusually high demand for service, as shown on the RF Coverage Maps. Currently there is lack of consistent Good and Average levels of coverage, which means the user experience is poor and/or spotty in the area. This new wireless telecom facility is the least intrusive option that will give relief to surrounding facilities and improve overall service in the area for both Data and Phone service. Because of the centrality of the coverage gap, and the specific distance requirements needed to prevent signal interference, AT&T selected the present site as the least-intrusive means of addressing the capacity gap.

The current existing levels of coverage in this area of the county are at poor and marginal levels. With the deployment of the proposed cell site, coverage and signal will be dramatically improved, such that strong coverage and signal is achieved at all levels of service. A strong signal will be provided to pedestrians outdoors, drivers in their vehicles, and individuals indoors in their houses, offices or other buildings. Coverage maps showing the existing signal and coverage, compared with levels that will be provided after installation of the wireless facility have been submitted as part of this application.

CUW Qualification and Findings Permitting the Project:

CUW Qualifications

1. The project will close a significant gap in coverage providing a telecommunications and data public utility that is vital to the function, safety, and service for the local community and city.
2. The site is of adequate size, shape, topography, location and access to utilities to accommodate the proposed wireless facility. The facility will be a nominal addition to the existing WTF's without adversely affecting adjacent properties, the surrounding neighborhood or the public health, welfare, and safety.
3. The proposed project meets all requirements of the WTF standards in a manner that is efficient and within the height limits of the zone. The siting of the facility will best compliment the surrounding built environment and directly benefits the public with improved service to the area.

Safety - RF Radio

The FCC regulates RF emissions to ensure public safety. Standards have been set based on peer-reviewed scientific studies and recommendations from a variety of oversight organizations, including the National Council on Radiation Protection and Measurements (NCRP), American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE), Environmental Protection Agency (EPA), Federal Drug Administration (FDA), Occupational Safety and Health Administration (OSHA), and National Institute for Occupational Safety and Health (NIOSH).

Although the purview of the public safety of RF emissions by the FCC was established by the Telecommunications Act of 1996, these standards remain under constant scrutiny. All AT&T cell sites operate well below these standards, and the typical urban cell site operates hundreds or even thousands of times below the FCC's limits for safe exposure. AT&T has submitted an RF Certification Letter confirming the proposed project site will be compliant with the FCC guidelines and standards regarding all health and safety regulations.

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