

**SUPPLEMENTAL INFORMATION
NUMBER:**

For Planning Commission Agenda of:

Consent Agenda Item	Item Number:
Continued Hearing Item	Item Number:
Public Hearing Item	Item Number:
Department Report	Item Number:
Old Business	Item Number:

Re:

Record Number:

Assessor's Parcel Number (APN):

Area:

Attached for the Planning Commission's record and review is the following supplementary information:

**PROJECT SUPPORT STATEMENT
ALTERNATIVE SITE ANALYSIS
Summary of Site Evaluations and Technical Evidence
Conducted by Epic Wireless Group, LLC**

AT&T TELECOMMUNICATIONS FACILITY "ARCATA"

AT&T SITE NUMBER: CCL02143

AUTHORIZED AGENT:

EPIC WIRELESS GROUP, LLC

ZONING MANAGER:

Ashley Smith; (916) 936-5430; Ashley.Smith@epicwireless.net

PROPERTY OWNER:

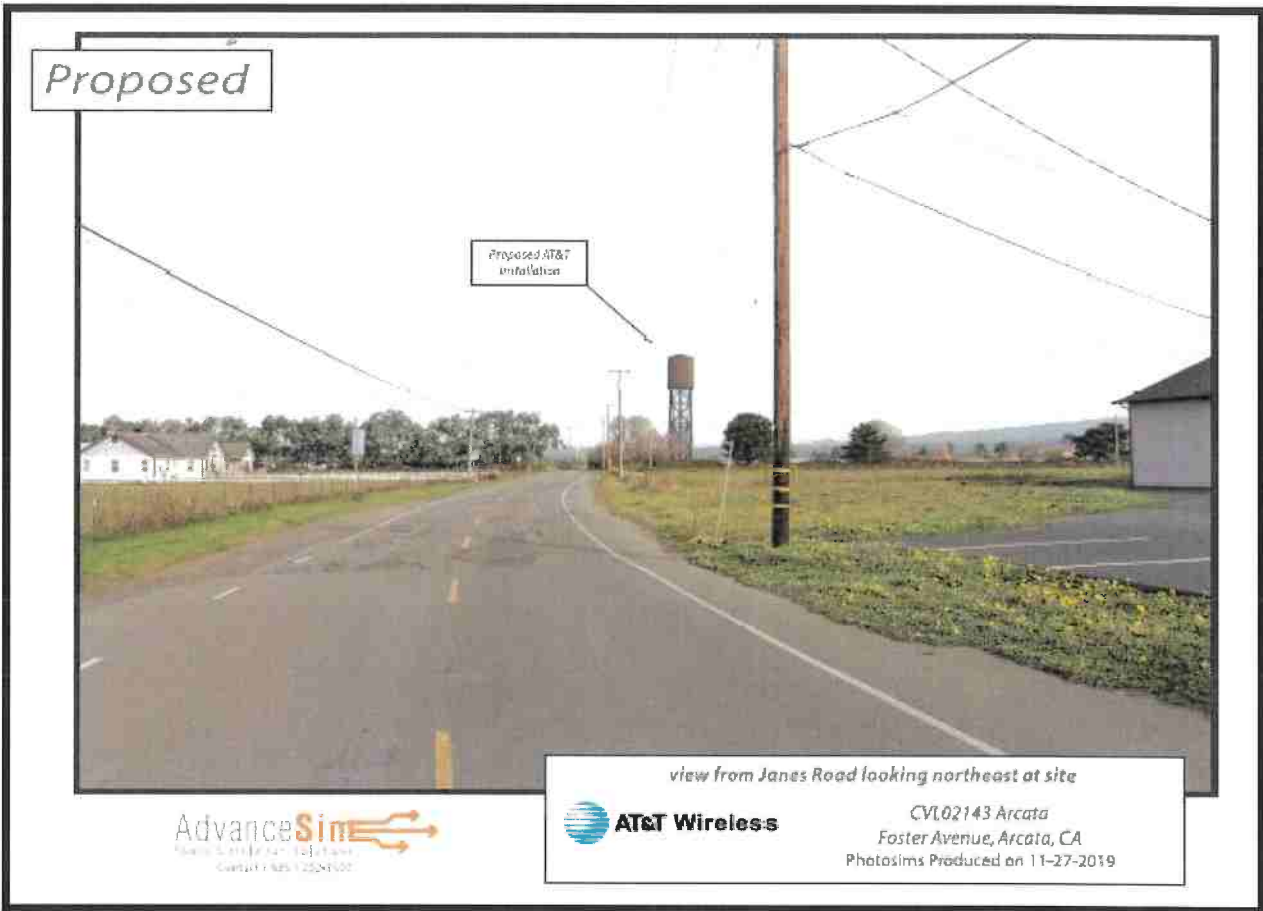
SHIRLEY BUTLER TRUST

APN: 505-151-006

FOSTER AVE, ARCATA CA 95521

- **PROJECT'S BACKGROUND AND OBJECTIVES**
 - **SEARCH RING'S DESCRIPTION**
 - **POTENTIAL CO-LOCATIONS**
 - **ALTERNATIVE SITE ANALYSIS**
 - **EXISTING TOWERS**
- **SUBJECT PARCEL AND SITE DETAILS**
- **DISTANCE TO NEARBY RESIDENCES**
- **OPERATIONAL STATEMENT**





I. INTRODUCTION

New Cingular Wireless PCS, LLC d/b/a AT&T Mobility ("AT&T") has a significant gap in its service coverage in Arcata. AT&T proposes to install a new wireless communications facility ("WCF") disguised as a 100-foot Faux Water Tank on the grounds of a vacant portion of land ("Proposed Facility")¹ as a means to fill this gap in coverage. The Proposed Facility consists of twelve panel antennas (four sets of three antennas) mounted on a pole and camouflaged as a water tank, with the related equipment to be housed entirely within an enclosure screened by an 6-foot tall high chain link fence with vinyl slats. The Proposed Facility is designed to minimize visual impacts, blend within the existing environment, and obscure the antennas. The Proposed Facility is the least intrusive means to fill the significant gap of the alternatives investigated by AT&T as explained below.

¹ The application for the Proposed Facility requests permission to place a 120' Monopine Tree Telecommunications facility.



II. Coverage Objective

AT&T Mobility has identified a significant gap in its service coverage in Arcata, in an area from Route 225 North to 27th Street. It will also provide user capacity to the east side towards Humboldt State University.

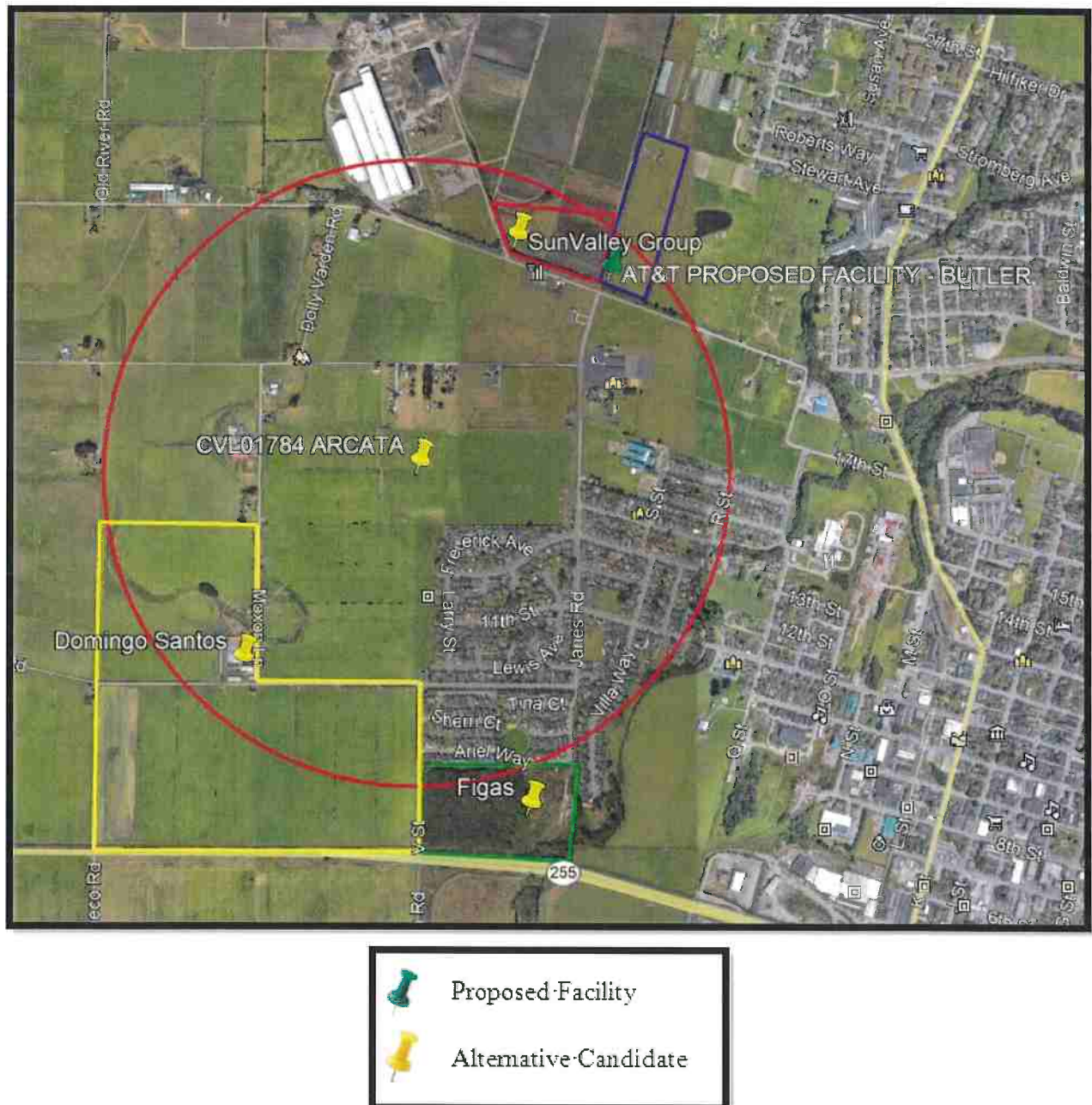
III. Methodology

The location of a WCF to fill a significant gap in coverage is dependent upon topography, zoning, existing structures, collocation opportunities, available utilities, access and a willing landlord. Wireless communication is line-of-sight technology that requires WCFs to be in relatively close proximity to the wireless handsets to be served.

AT&T seeks to fill a significant gap in service coverage using the least intrusive means under the values expressed in the Humboldt County Municipal Code ("Code").

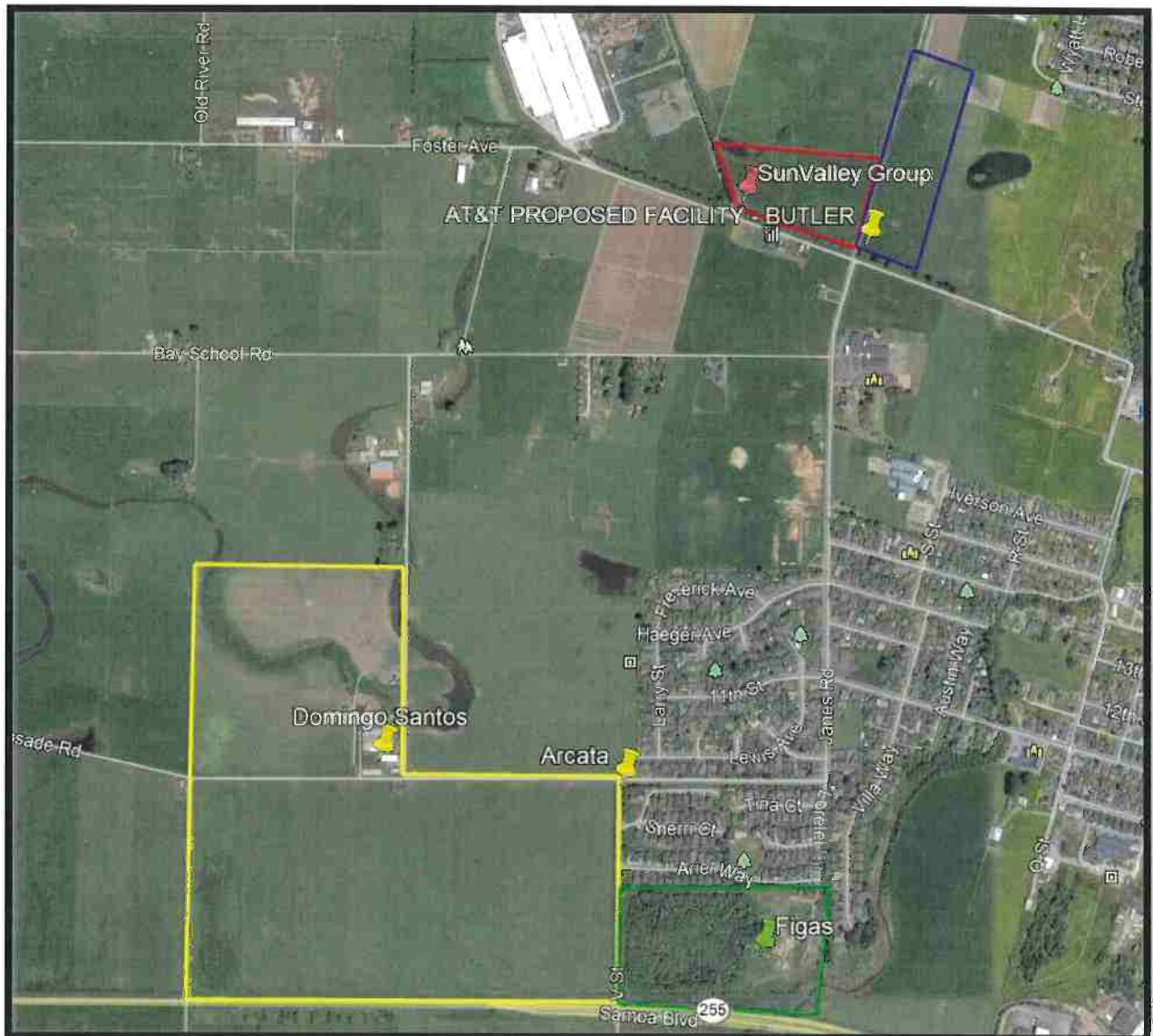
IV. ANALYSIS:

AT&T investigated potential alternative sites for facilities to fill the identified coverage gap in this portion of Redding. AT&T searched for, but did not find, feasible collocation opportunities in and around the coverage objective. The following map shows the locations of the Proposed Facility and the alternative sites that AT&T investigated. The alternatives are discussed in the analysis which follows.



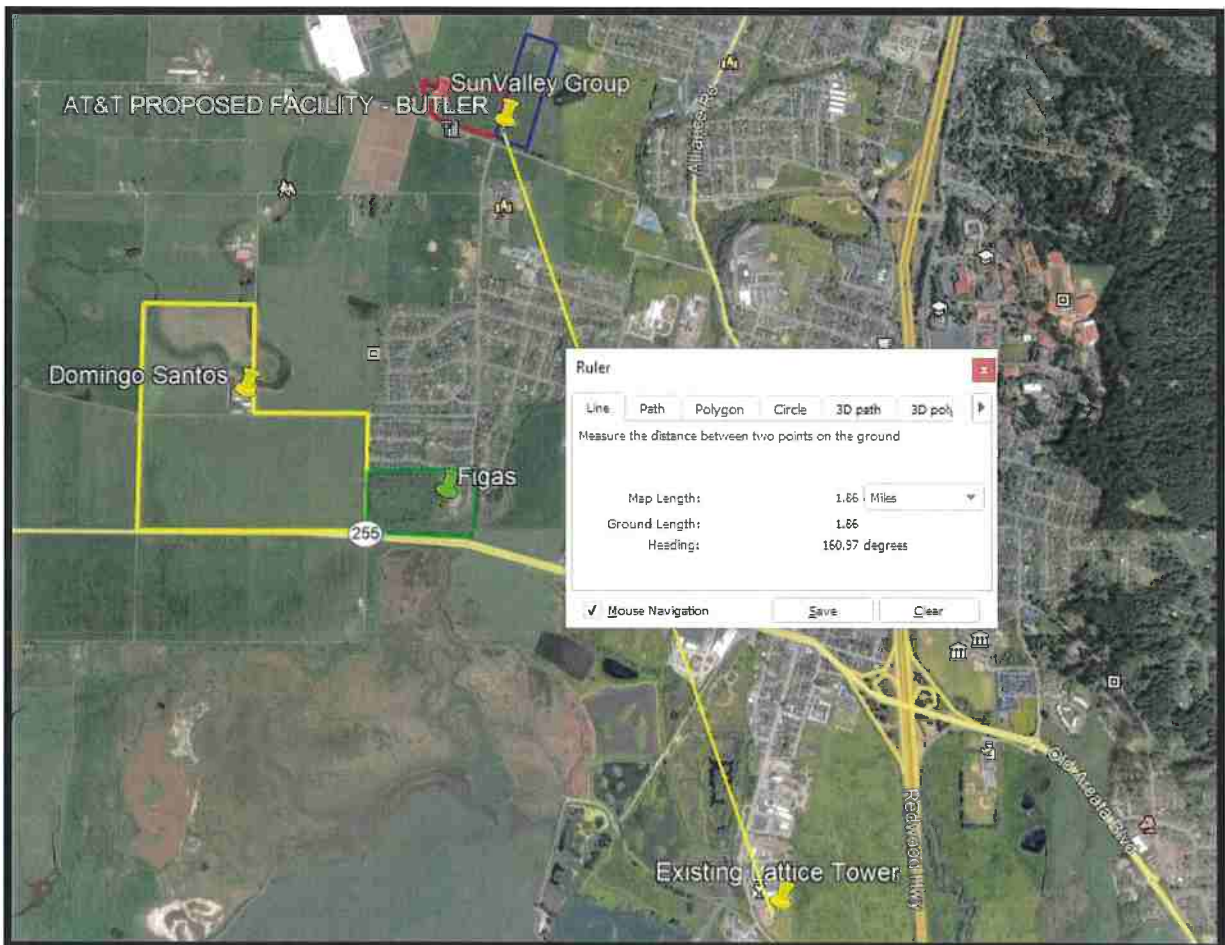
V. ALTERNATIVE SITE ANALYSIS

In total there were three (3) alternative candidates in which Epic Wireless contacted for feasibility purposes to meet the goals intended for this search ring.



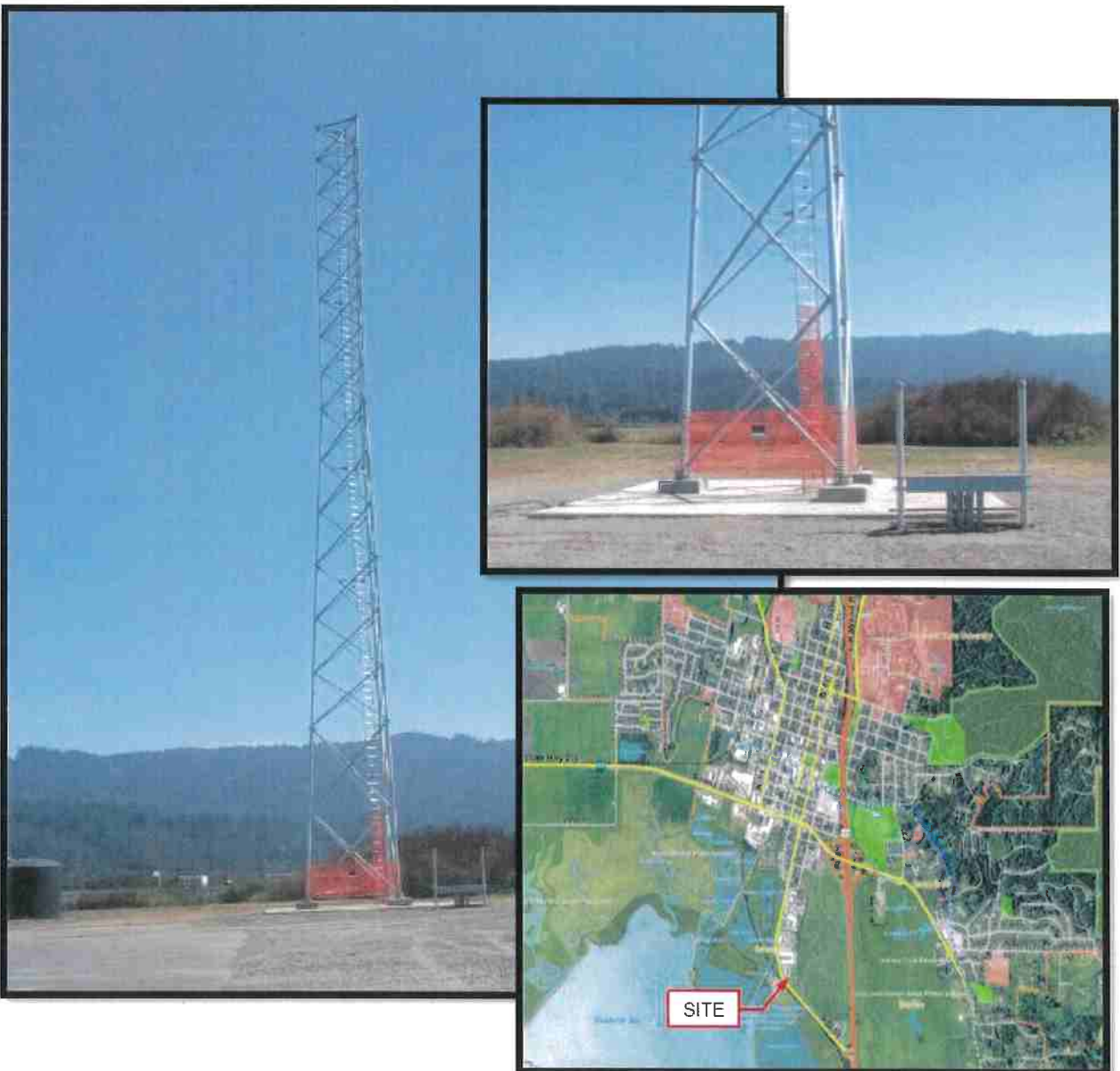
VI. EXISTING TELECOMMUNICATION FACILITIES

Before finding a location in the designated search ring issued by AT&T, Epic wireless first looks to see if there are any feasible existing telecommunications facilities in the area. According to the data found on Tower sites as well as during the walk on the property, there is one (1) existing facility in Arcata within a 2-mile radius.



i. **EXISTING FACILITIES**

Due to the existing telecommunication facility being approximately 1.86 miles away from the desired area by AT&T, this existing facility will not be feasible for AT&T's goals for this area. According to AT&T's Radio Frequency Engineers, the new proposed wireless communication facility is needed to improve the customer experience and coverage in Arcata from Route 225 North to 27th Street. It will also provide user capacity to the east side towards Humboldt State University. The existing tower location is far to the south (~1.8m away from AT&T proposed tower) and does not target the specific location that is in need of AT&T Services. The build priority is high with a coverage objective to fill the existing gap in coverage.



VII. **ALTERNATIVE SITE A:**
APN: 506-131-014-000

i. **ACTUAL VIEW OF PROPOSED LOCATION B:**



ii. **REASONING WHY LOCATION IS INFEASIBLE:**

A WCF here would be more visible than at the Proposed Facility, especially from the dense residential buildings on the property. The Proposed Facility is less intrusive than a WCF on this residential use for this property.

VIII. **ALTERNATIVE SITE B:**
APN: 506-151-007-000

i. **ACTUAL VIEW OF PROPOSED LOCATION B:**

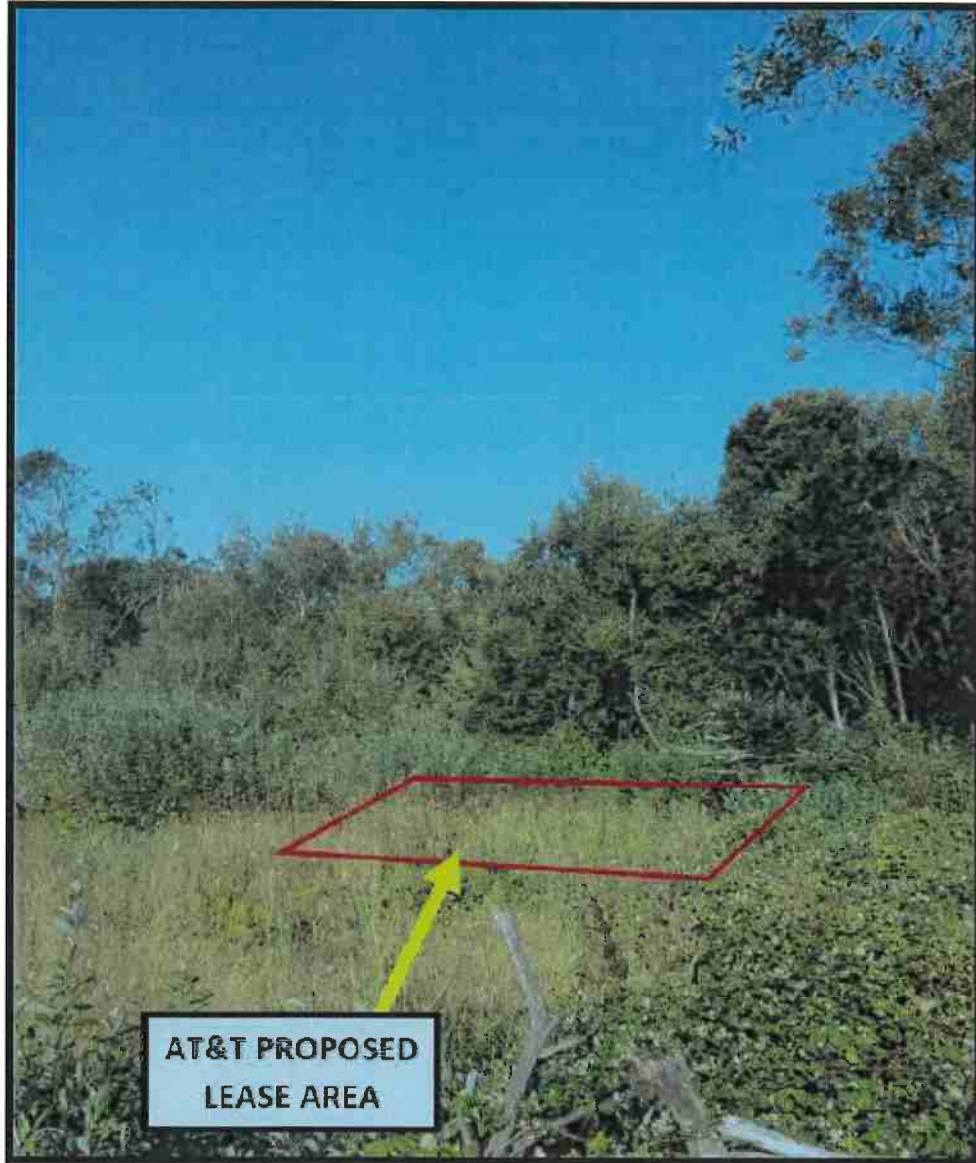


ii. **REASONING WHY LOCATION IS INFEASIBLE:**

A WCF here would be more visible than at the Proposed Facility, especially from the dense residential buildings on the property. The Proposed Facility is less intrusive than a WCF on this residential use for this property.

IX. ALTERNATIVE SITE C:
APN: 505-192-004-000

i. ACTUAL VIEW OF PROPOSED LOCATION C:



ii. REASONING WHY LOCATION IS INFEASIBLE:

This vacant lot is in a residential zoning district and is surrounded by residential properties to the North. As there are no structures on this property, a WCF here would more visible than at the Proposed Facility. The Proposed Facility is less intrusive than a WCF on this vacant lot.

- X. **PROPOSED FACILITY:** SHIRLEY BUTLER TRUST
Foster Ave, Arcata, CA 95521
APN: 505-151-006

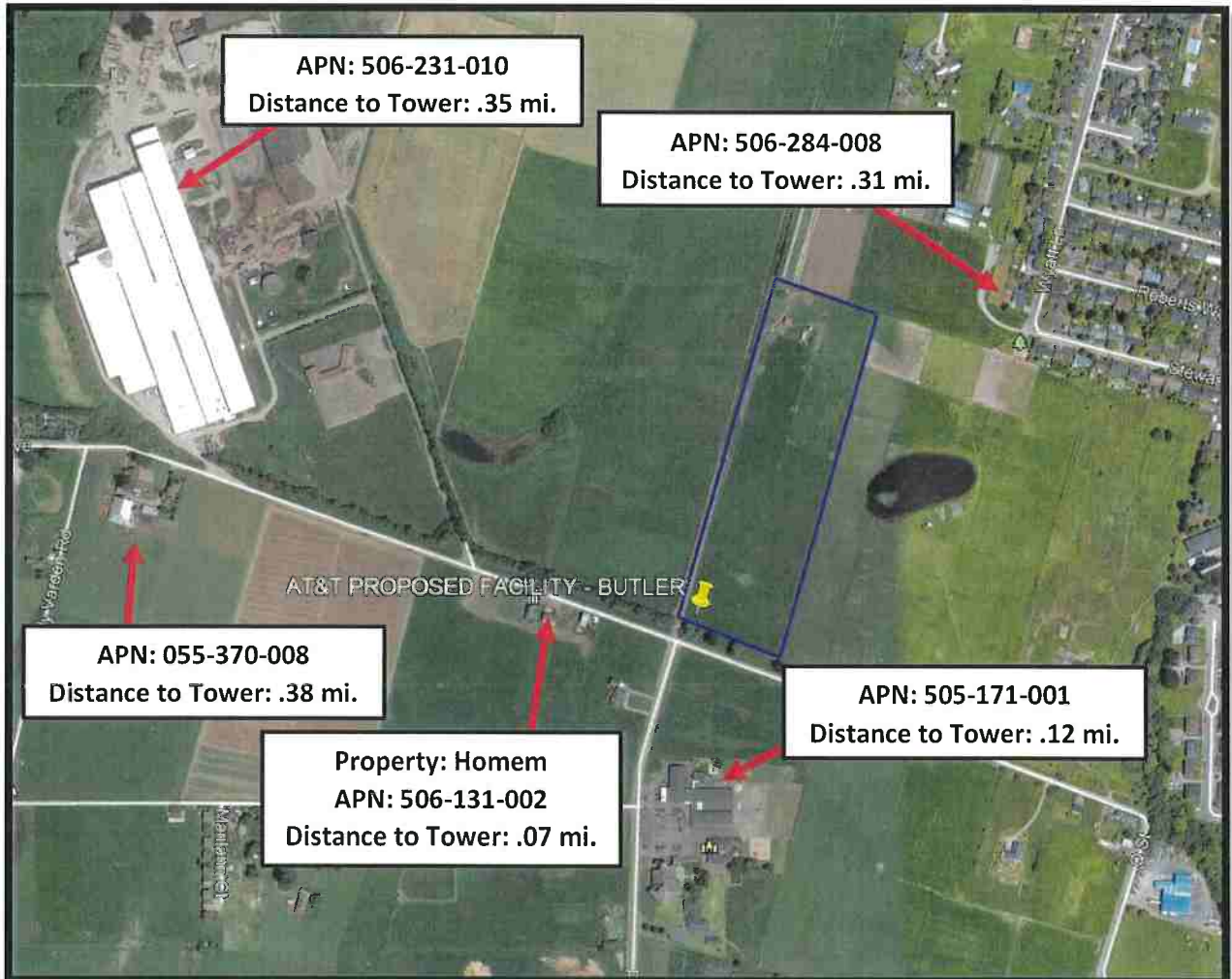
i. **Photo Simulation of the Proposed Facility:**



The proposed property is located near the intersection of Foster Ave and Janes Road, on a vacant property. AT&T is proposing of a 100' new site build Water Tank Telecommunications Facility. The Proposed Facility is designed to minimize visual impacts, and all antennas will be obscured by the faux water tank design. This proposed facility will also be collocatable for future carriers. According to AT&T's Radio Frequency Engineers, the new proposed wireless communication facility is needed to improve the customer experience and coverage in Arcata from Route 225 North to 27th Street. It will also provide user capacity to the east side towards Humboldt State University. The Proposed Facility is the least intrusive means to fill the significant gap of the alternatives investigated by AT&T.

ii. **OVERHEAD VIEW OF LEASE AREA AND DISTANCES TO NEARBY RESIDENCES:**

While looking over the map provided below, you will find that the closest neighbor to the proposed site is that of approximately 358 ft. to the southwest. Majority of the surrounding residences are an average of .29 miles away from the proposed facility.



XII. OPERATIONAL STATEMENT

This project is an AT&T Mobility unmanned Telecommunications Wireless Facility. It will consist of the following:

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. BRING POWER / TELCO / FIBER TO SITE LOCATION.
2. INSTALL AT&T APPROVED PREMANUFACTURED WALK-IN CABINET AND ASSOCIATED INTERIOR EQUIPMENT.
3. ADD STANDBY GENERATOR WITH FUEL TANK.
4. PROPOSED AT&T FAUX WATER TOWER WITH ANTENNAS & ASSOCIATED TOWER-MOUNTED EQUIPMENT.
5. PROPOSED AT&T GPS ANTENNA.

The facility will operate 24 hours a day 7 days a week. Maintenance workers will visit the site approximately once a month or once a quarter. There will be minimal noise from the standby generator, turning on once a month for 10 minutes for maintenance purposes limited to Monday through Friday between 8am and 5pm and during emergency power outages. The tower will be built to provide co-location opportunities for future carriers or public safety entities.

XIII. Conclusion

The identified site location and design of the proposed facility represents a thorough and responsible investigation of alternative site locations. AT&T, with the help of Epic Wireless and AT&T Wireless RF Engineers, has determined the proposed site to be the least intrusive means to service this area of Redding. This facility is believed to have the least impacts to the community.

Based upon location, a willing landlord and the superior coverage as shown in the proposed coverage map included in AT&T's Radio Frequency Statement, the Proposed Facility is the least intrusive means for AT&T to meet its service coverage objective.