

FirstNet Wireless Project

5005 Loch Leven Dr.
Pollock Pines, CA



What is FirstNet?

- 9/11 - After Action Report
- 2012 - Middle-Class Tax Relief and Job Creation Act, law 112-96
 - National Public Safety Broadband Network (NPSBN): FirstNet
 - Band 14 for public safety
- 2017 - 25-year public-private partnership with AT&T
- 2018 - 56 US states and territories opt in – Network launched



FirstNet– Pollock Pines (El Dorado County)

- El Dorado County Sheriff
- El Dorado County Fire Department
- El Dorado County Medical Facilities & Hospitals
- Cal FIRE
- California Highway Patrol
- California Parks and Recreation Law Enforcement
- Placerville Police Department
- Pollock Pines Elementary Schools District
- El Dorado Union High School District
- U.S. Forest Service
- Various California Departments
- Various Federal Agencies



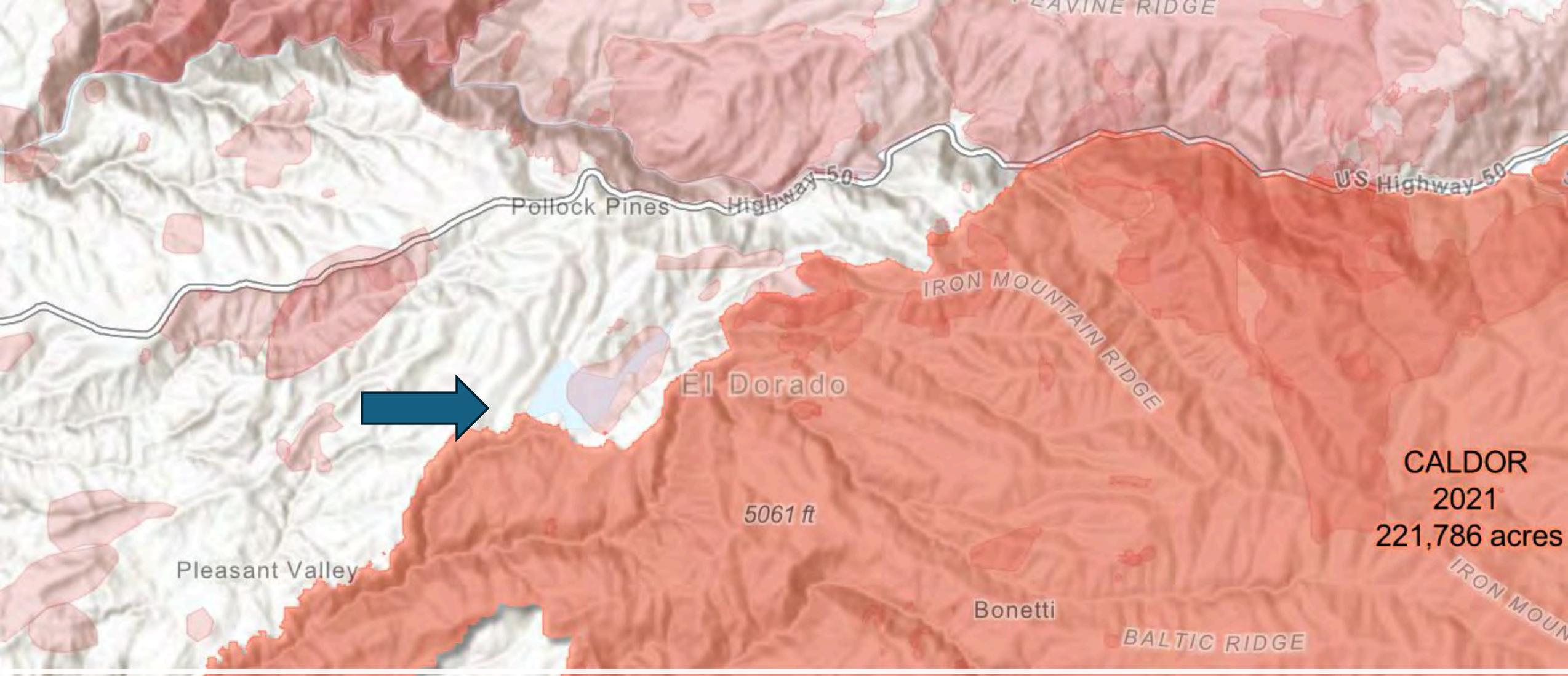
WIRELESS COVERAGE IS A PUBLIC SAFETY ISSUE

For the community, wireless coverage is more critical than ever as over 80% of 9-1-1 calls today are made via cell phones⁽¹⁾, and approximately 79% of homes are wireless only (no wired lines)⁽²⁾.

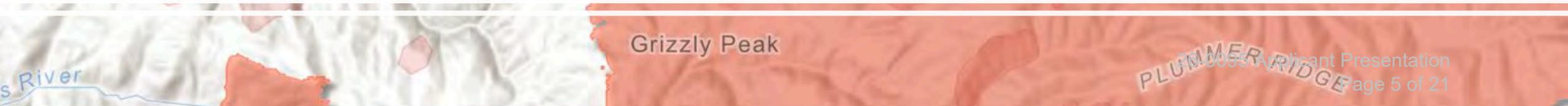


1. 9-1-1 Statistics (nena.org)

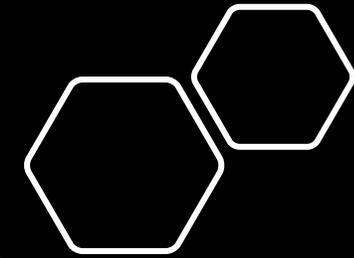
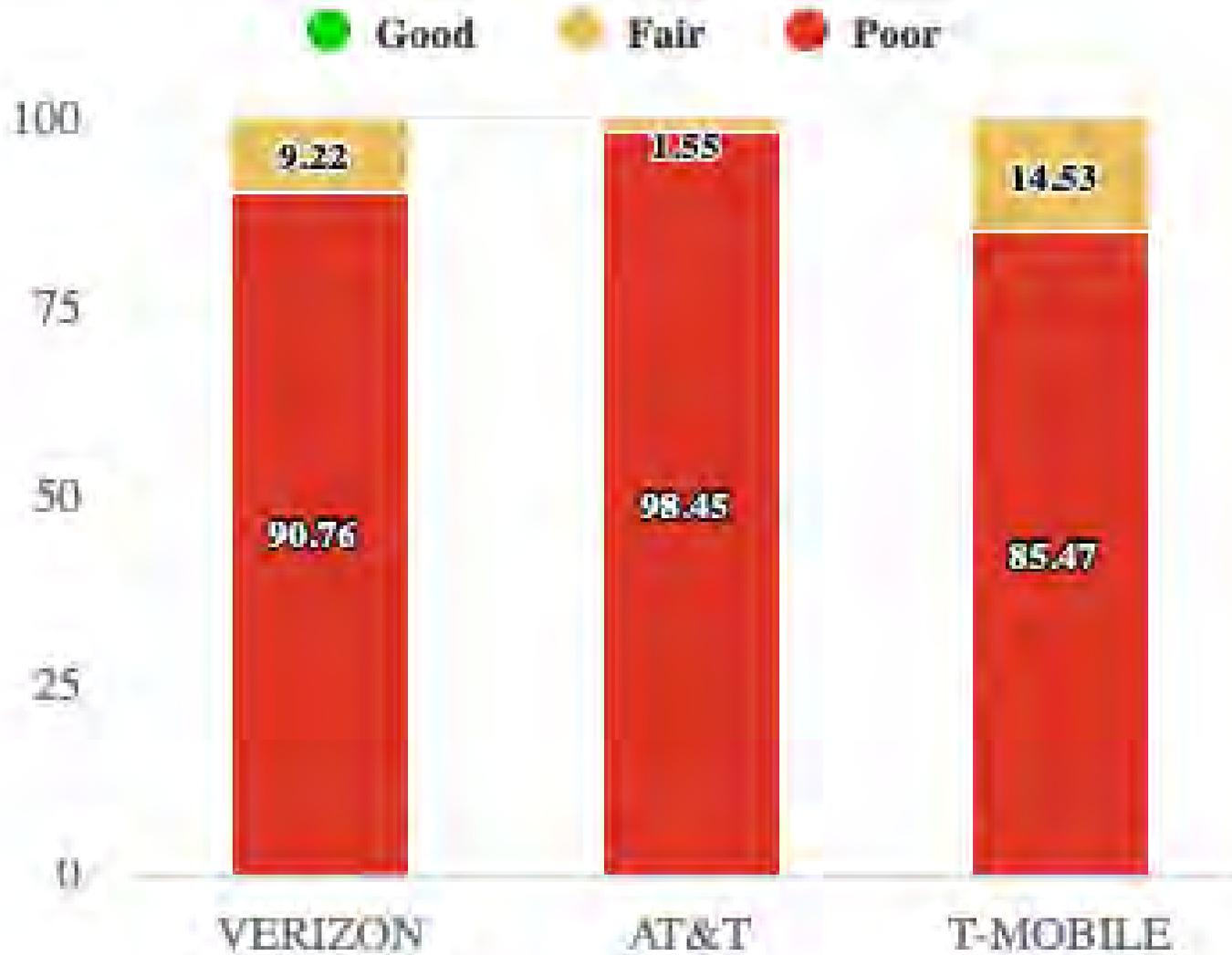
2. Wireless Substitution: Early Release of Estimates from the National Health Interview



Wildfire History



Situation in the area by carrier

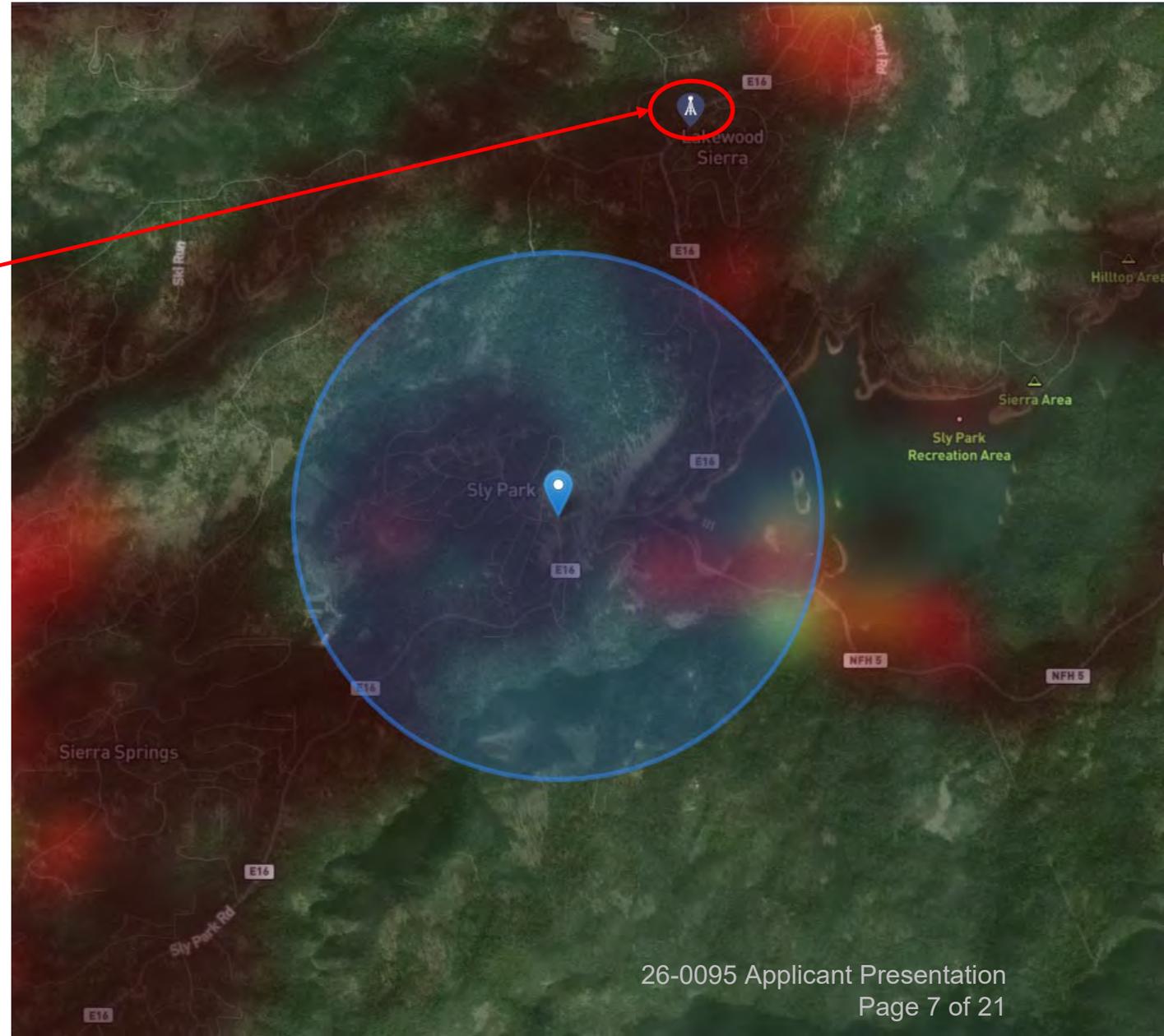
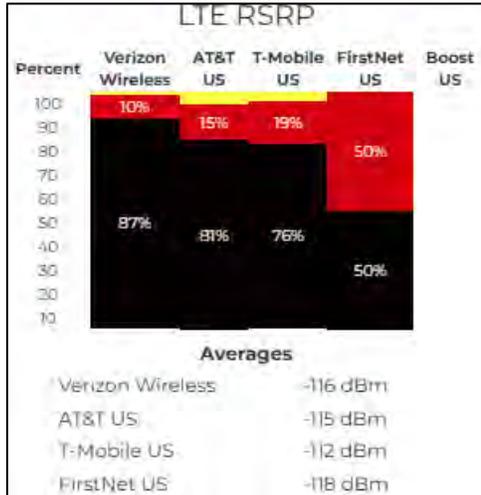


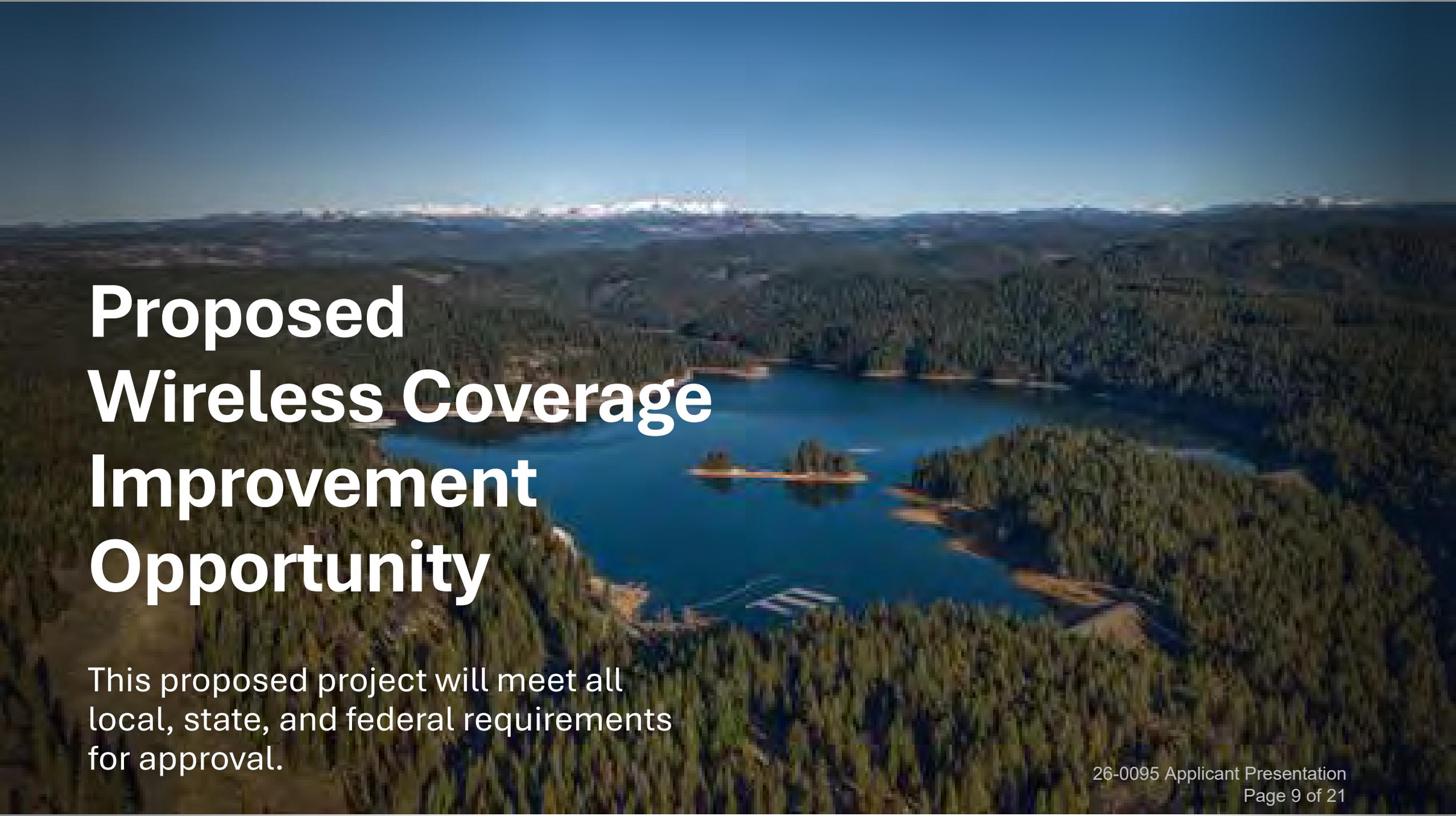
POLLP01 - 5005 Loch Leven Dr, Pollock Pines, CA 95726

AT&T Existing Coverage vs Competitive Towers Overview (1mi radius)

(1) SBA tower located approximately 1.5-miles from AT&T desired location and this SBA asset would not be a viable collocation candidate to achieve AT&T's coverage objective

SBA Tower Coordinates: 38.7422, -120.5714,
 SBA Tower Address: 4240 Sly Park Rd, Pollock Pines, CA
 95726

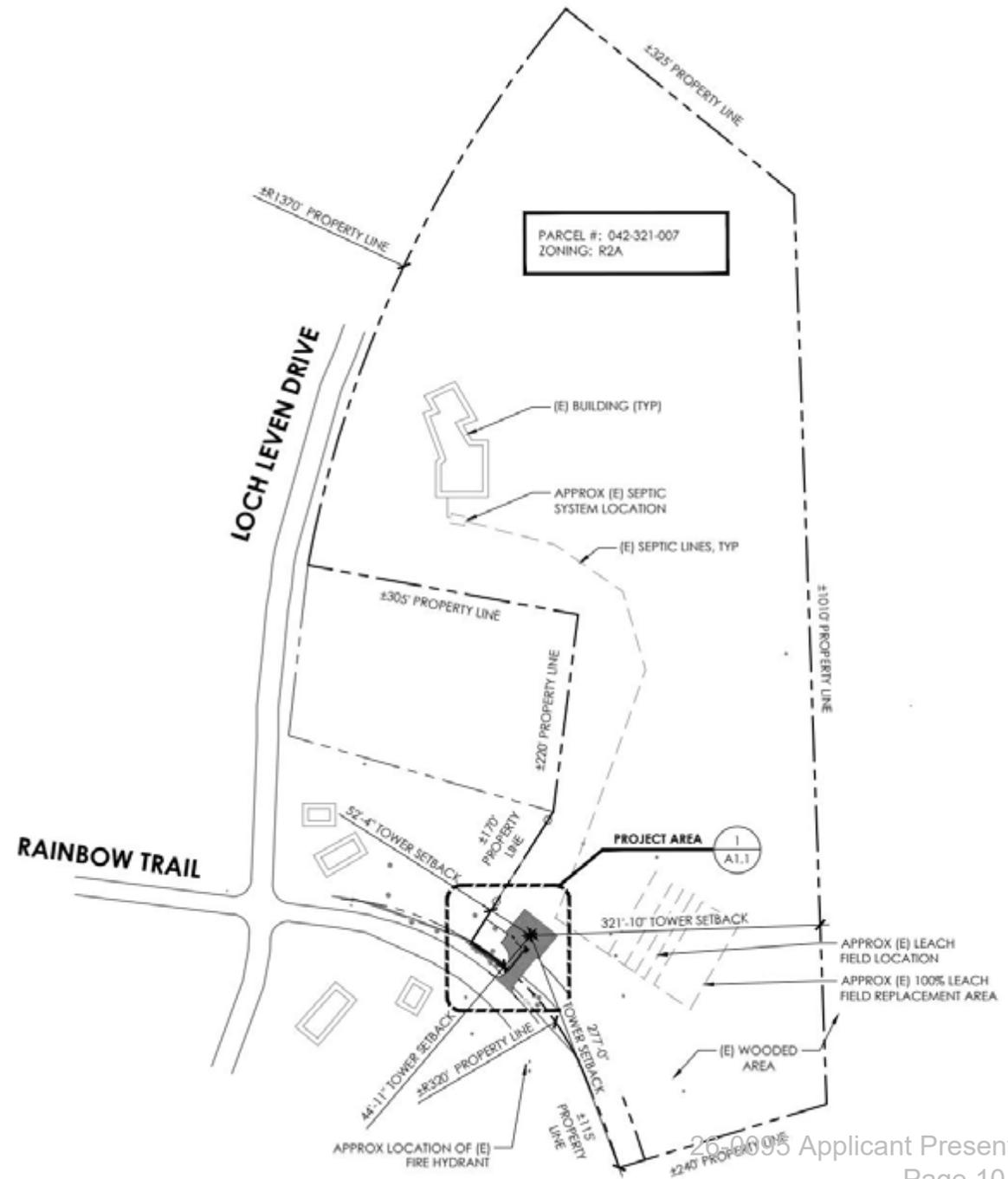




Proposed Wireless Coverage Improvement Opportunity

This proposed project will meet all local, state, and federal requirements for approval.

Initial Proposed Site Plan



Initial Site Selection

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- Achieve the FirstNet/AT&T coverage objective.
 - Maximize screening with existing conifer vegetation.
 - Complied with the existing EDCOC (2024) Section 130.40.130.D.2 for 30' Setbacks.
 - Avoided natural watershed
 - Avoided the EDC Environmental Health concern about proximity to the septic system and the septic system repair area (contingency area).

Site Characteristics Changed

In 2025, the existing vegetation along Rainbow Trail was removed for wildfire hardening within the utility easement.

This change, resulted in the proposed location to no longer have sufficient screening.

Staff Analysis Considerations

- Meets the setback requirements.
 - Contradicts the intent of EDCOC Section 130.40.130 – “minimize visual impacts”
 - Open field with no screening.
 - Permanent, fixed view for multiple residences.
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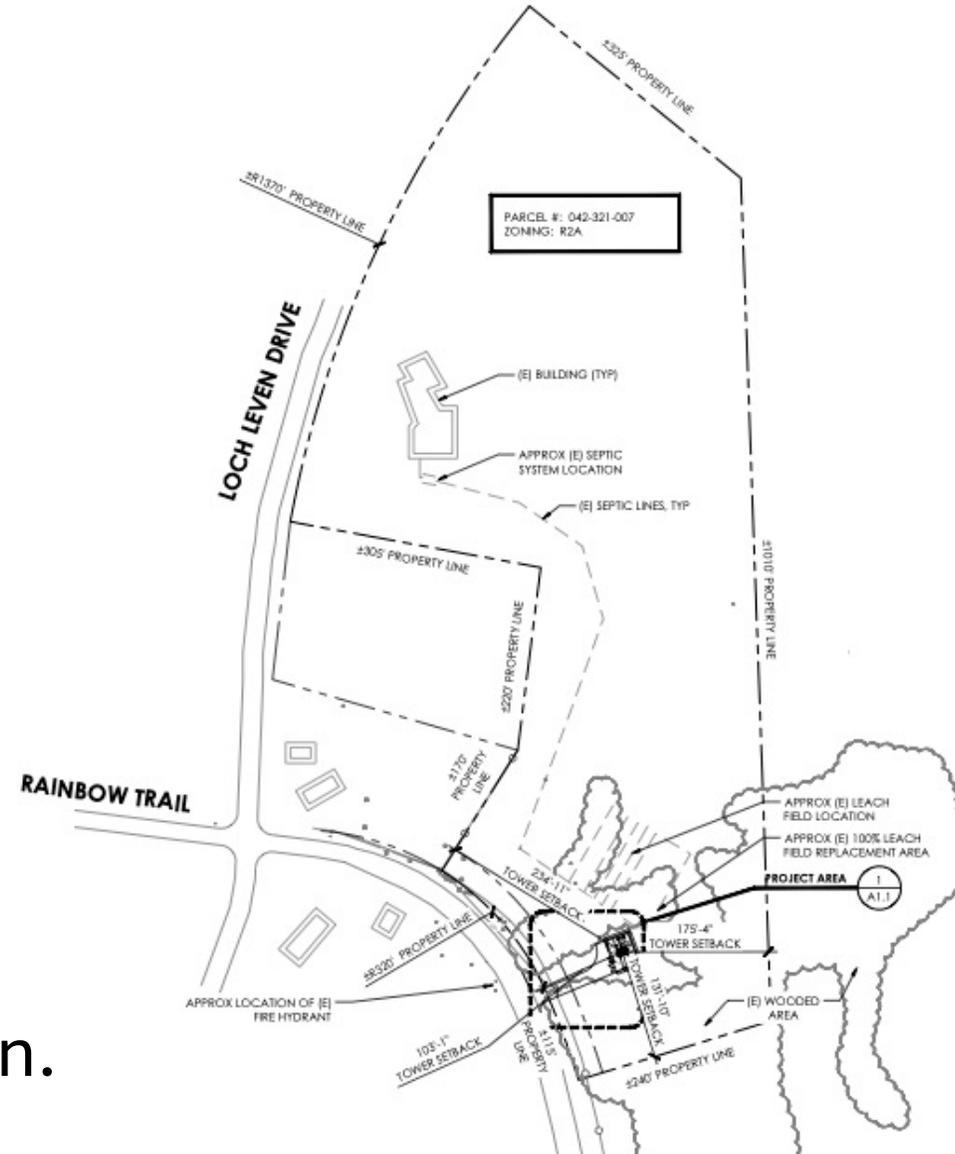
New Proposed Location

- ~200' SE from the original location
- Situated within existing conifer trees
- Greater setbacks from neighboring properties and Rainbow Trail
- Outside of view shed of all residences.

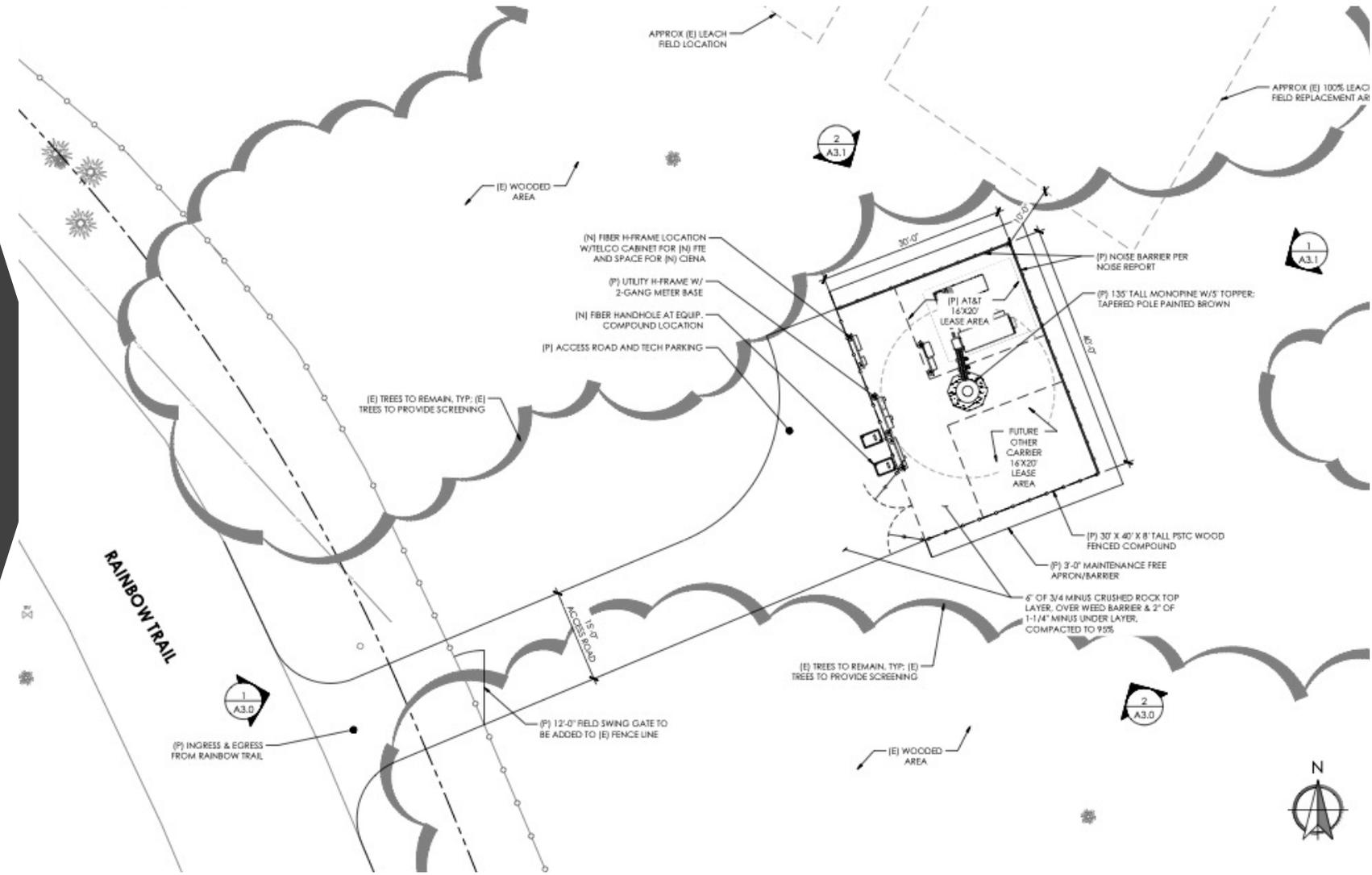


New Proposed Site Plan

NOTE: ~200' SE of original location.



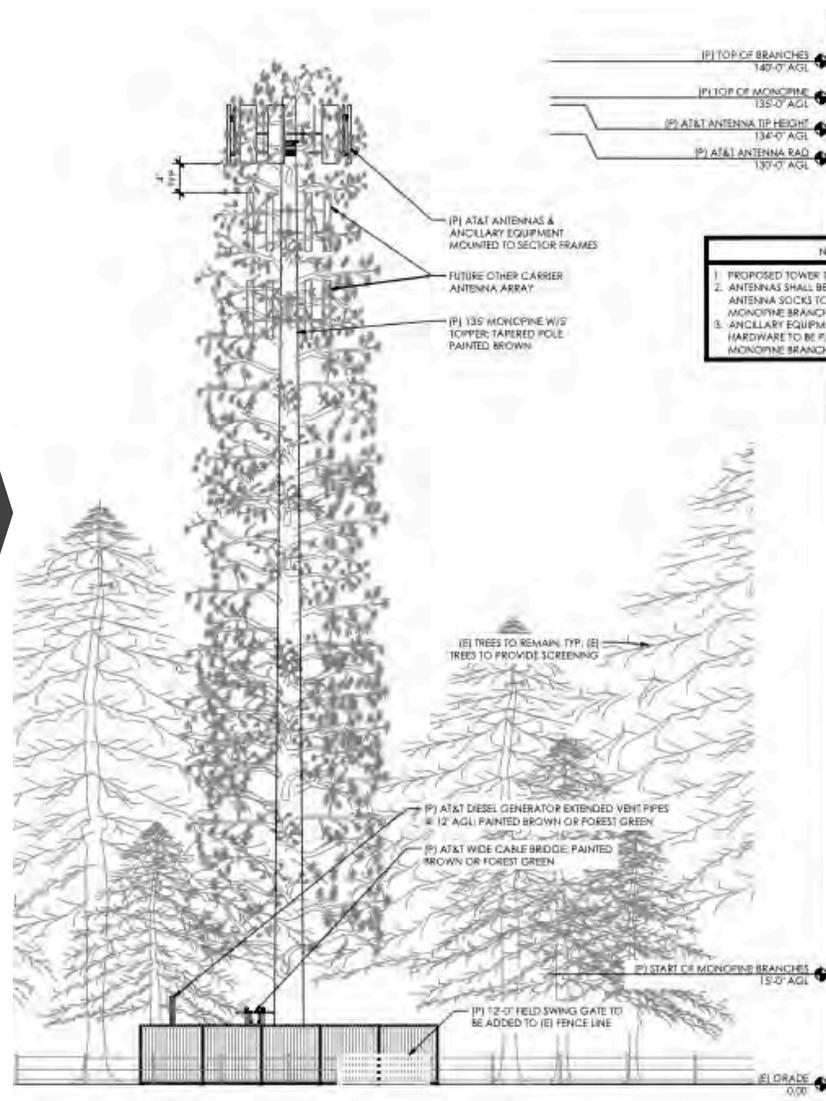
New Proposed Site Plan



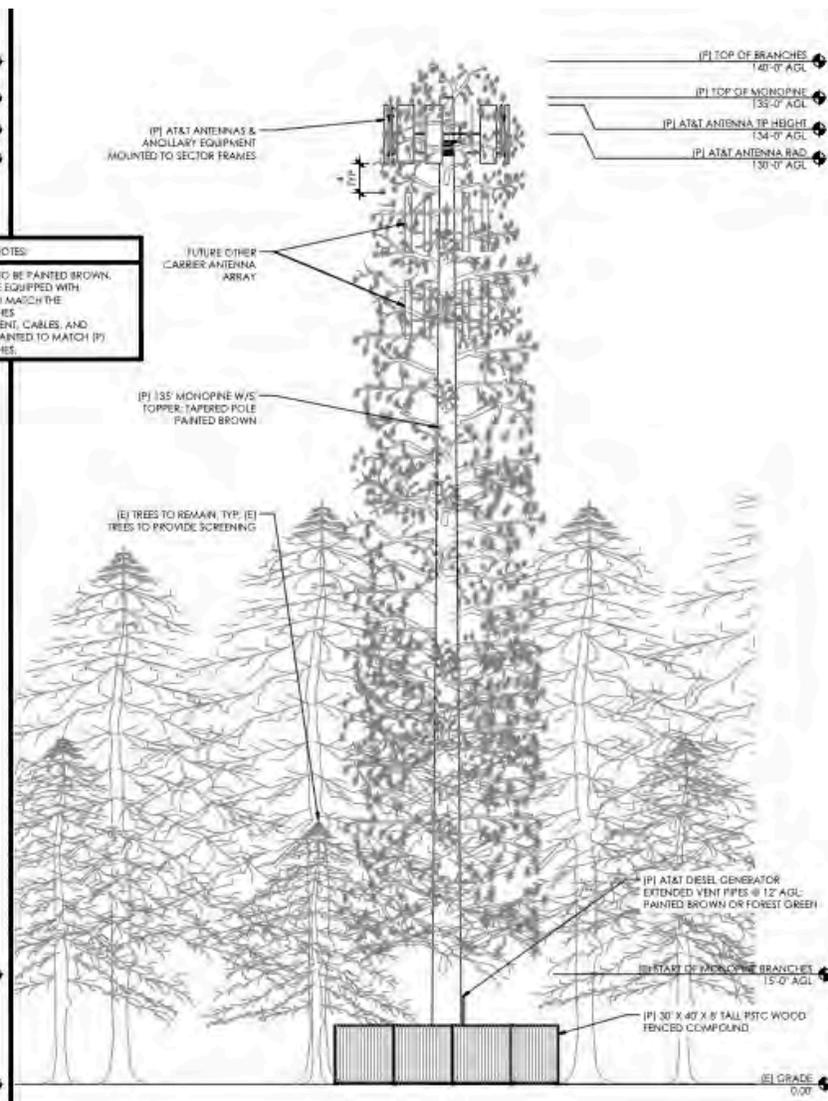
NOTE: The gate's aesthetics will align with the rural setting.

New Proposed Elevation

Top of Tower 140'



West Elevation

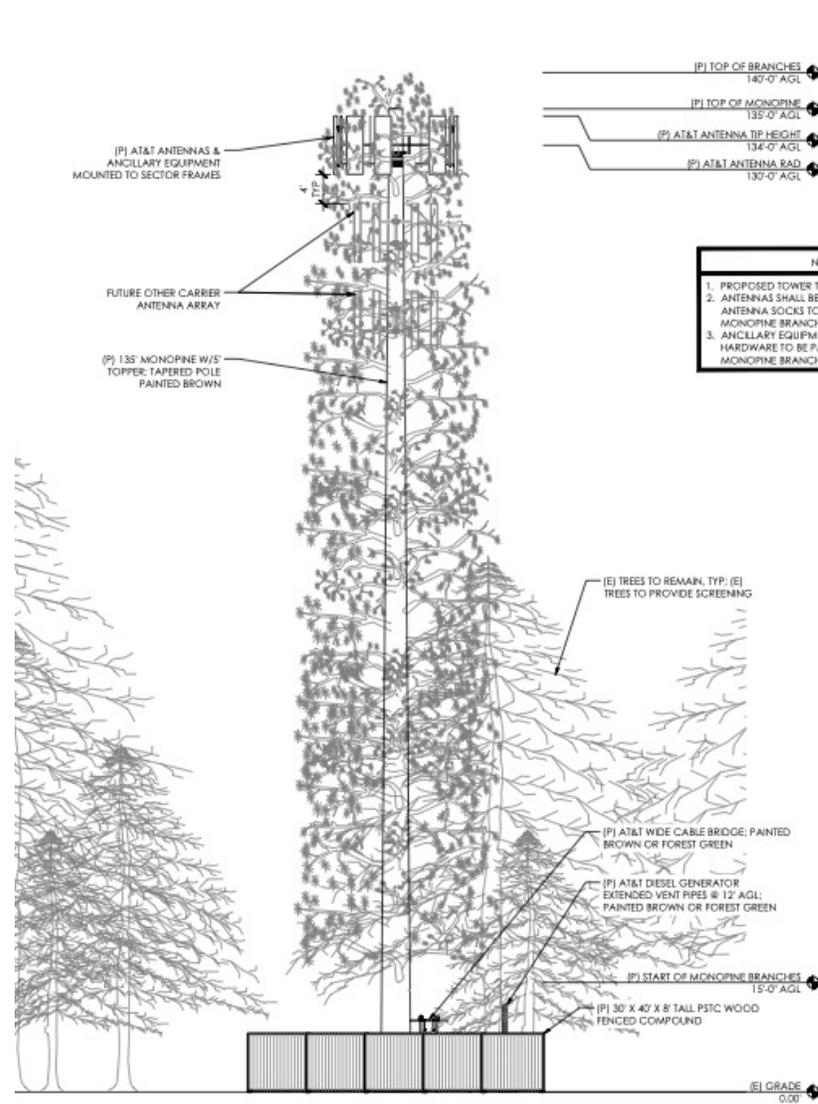


South Elevation

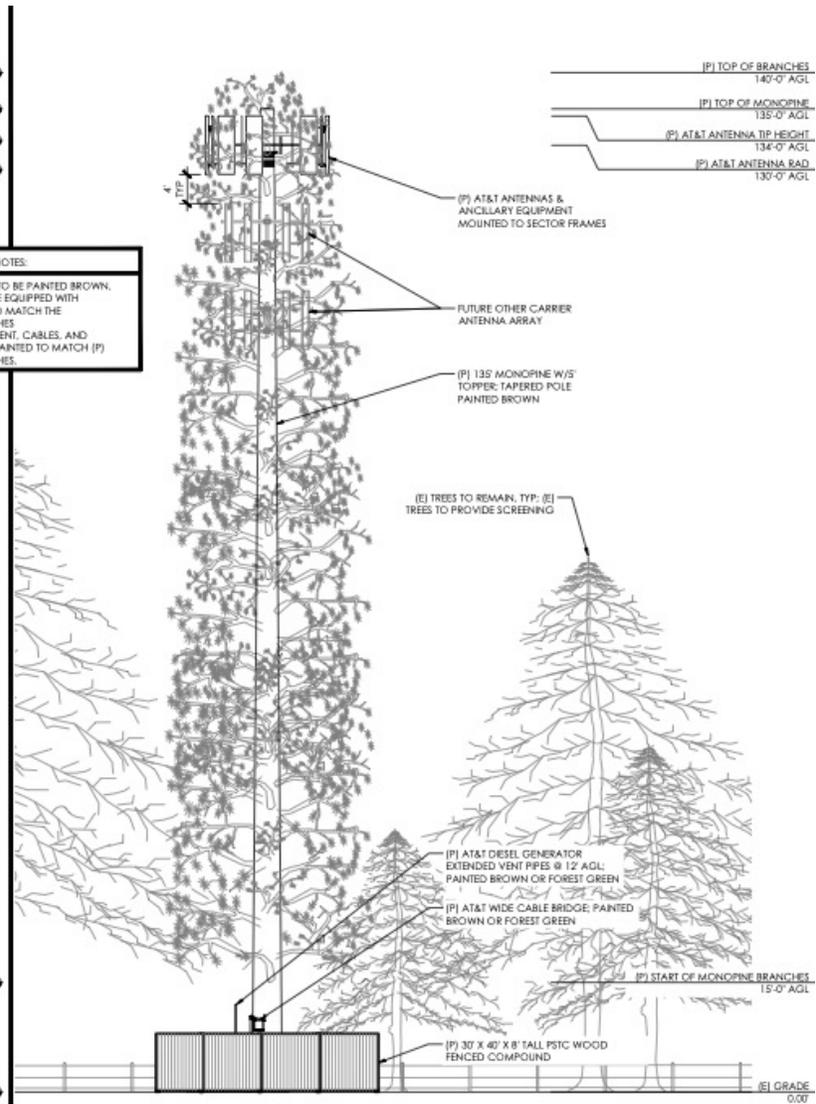
- NOTES:
1. PROPOSED TOWER TO BE PAINTED BROWN.
 2. ANTENNAS SHALL BE EQUIPPED WITH ANTENNA SOCKS TO MATCH THE MONOPOLE BRANCHES.
 3. ANCILLARY EQUIPMENT, CABLES, AND HARDWARE TO BE PAINTED TO MATCH (P) MONOPOLE BRANCHES.

New Proposed Elevation

Top of Tower 140'



East Elevation



North Elevation

NOTES:

1. PROPOSED TOWER TO BE PAINTED BROWN.
2. ANTENNAS SHALL BE EQUIPPED WITH ANTENNA SOCKS TO MATCH THE MONOPINE BRANCHES.
3. ANCILLARY EQUIPMENT, CABLES, AND HARDWARE TO BE PAINTED TO MATCH (P) MONOPINE BRANCHES.

Setbacks

-
1. As per EDCOC (2025), setbacks are 1.5 times the tower height.
 1. $140' \times 1.5 = 210'$
 2. Setbacks for the new proposed location are approximately
 1. ~235' from NW property line
 2. ~165' from E property line
 3. ~131' from SE property line
 4. ~103' from Rainbow Trail
 3. A Setback Waiver will be requested “to allow flexibility in landscape and siting the facility in a location that best reduces the visual impact on the surrounding area and roads.”

Wireless Telecommunications Tower Failures

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- Wireless telecommunications towers failures are extremely rare
 - 2003 to 2019 - 1-3 per decade in the United States
 - 2020 to present – less than 1 per decade (estimated based on trend)
 - Source: Wireless Estimator and ProPublica/PBS
 - Failures typically occur with lattice towers, not monopole towers
 - In the instances of failure, the towers did not fall like trees: They bent or broke into two or more pieces

Note: The proposed monopole (faux tree) tower can be equipped with break-away joints.

Summary

- **The project is in an ideal location.**
 - Unreliable wireless coverage in the area.
 - Wildland fire interface/intermix area – Caldor Fire
 - Significant recreational use area.
 - ~70% of households are wireless only
 - 87% of California 911 calls are from wireless devices
- **We accept all El Dorado County proposed conditions of approval.**
- **This proposed project will meet all local, state, and federal requirements.**
- **Request CUP24-0013 be continued to off calendar to allow the applicant and staff to mitigate the changed characteristics of the original location.**