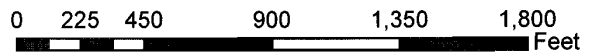


**File No. S14-0009**  
**Location Map**

AT&T Cell Tower Skyline Drive



**EXHIBIT A**

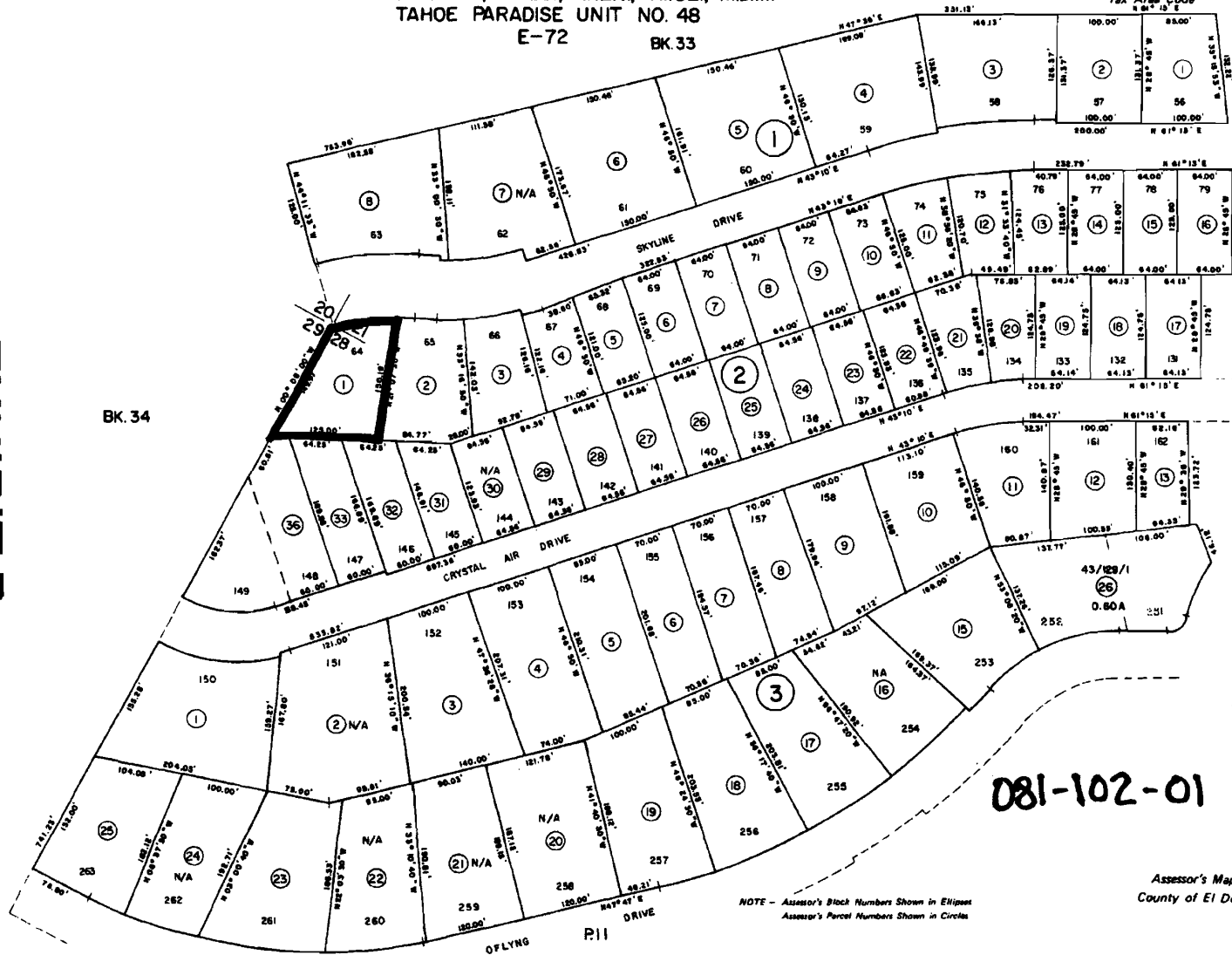
POR. SECS. 20, 21 & 28, T.12N., R.18E., M.D.M.  
 TAHOE PARADISE UNIT NO. 48  
 E-72 BK 33

Tax Area Code  
 N 84° 15' E

81:10

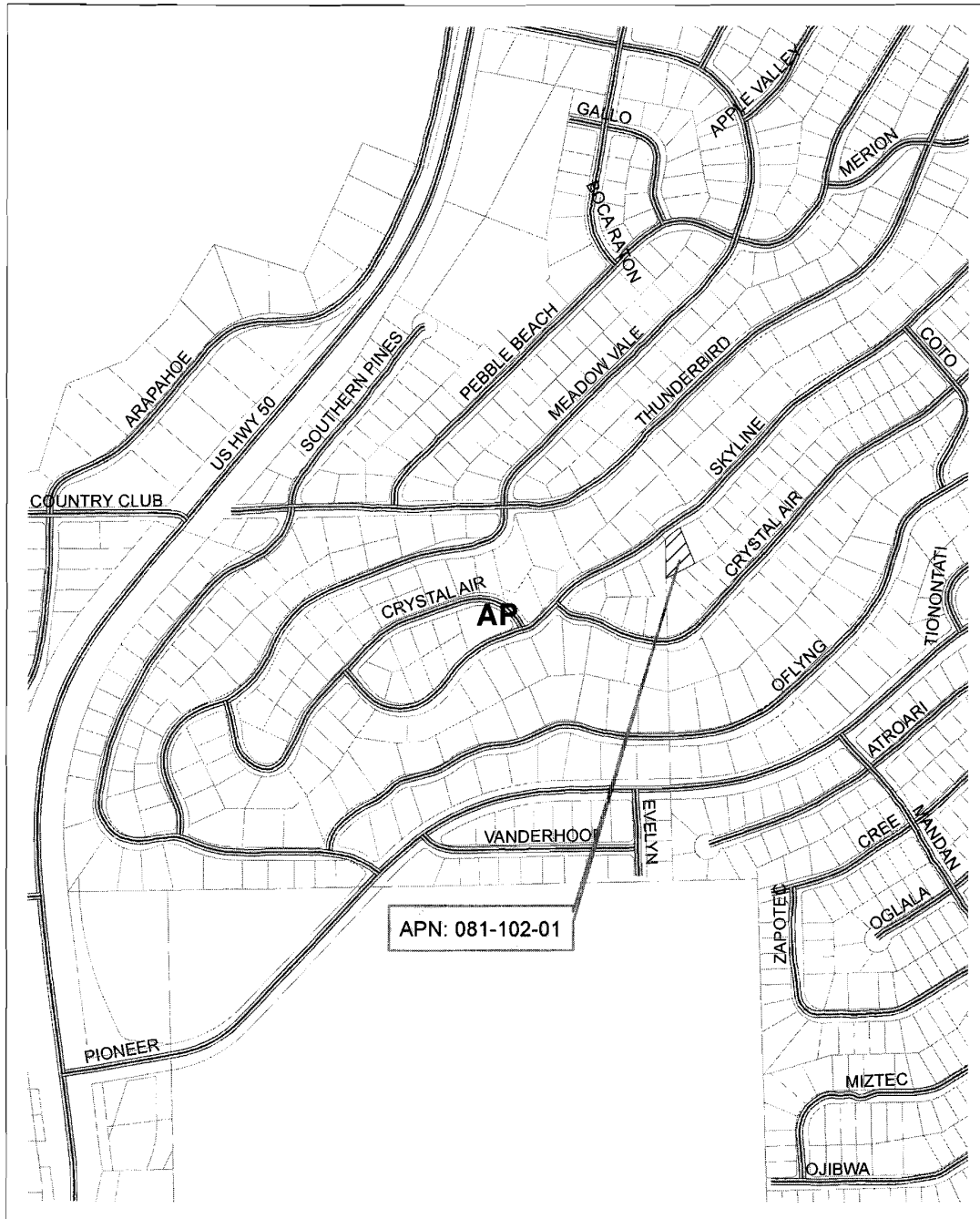


EXHIBIT B

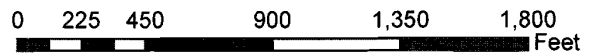


NOTE - Assessor's Block Numbers Shown in Ellipses  
 Assessor's Parcel Numbers Shown in Circles

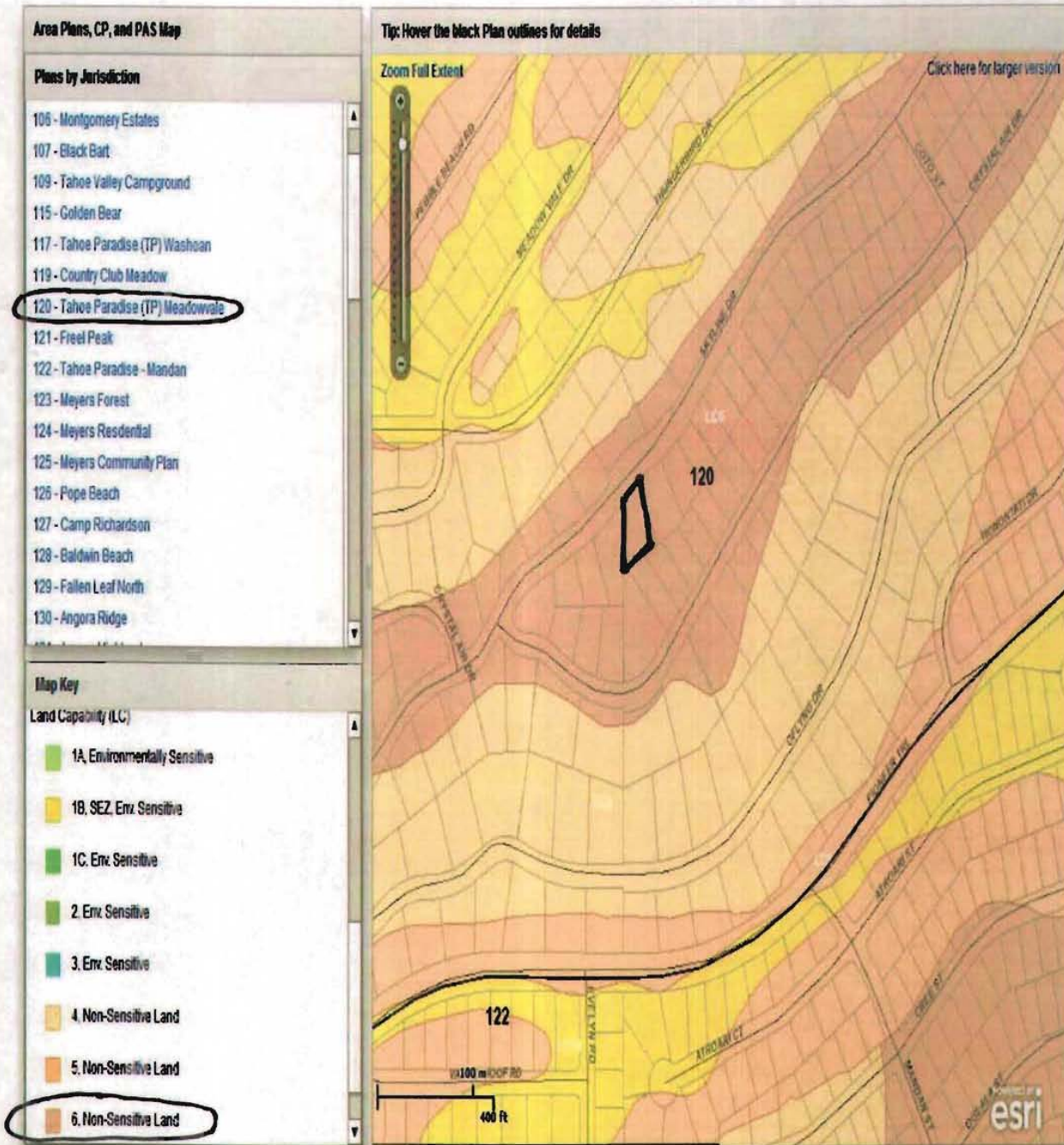
Assessor's Map Bk. 81 - Pg. 10  
 County of El Dorado, California



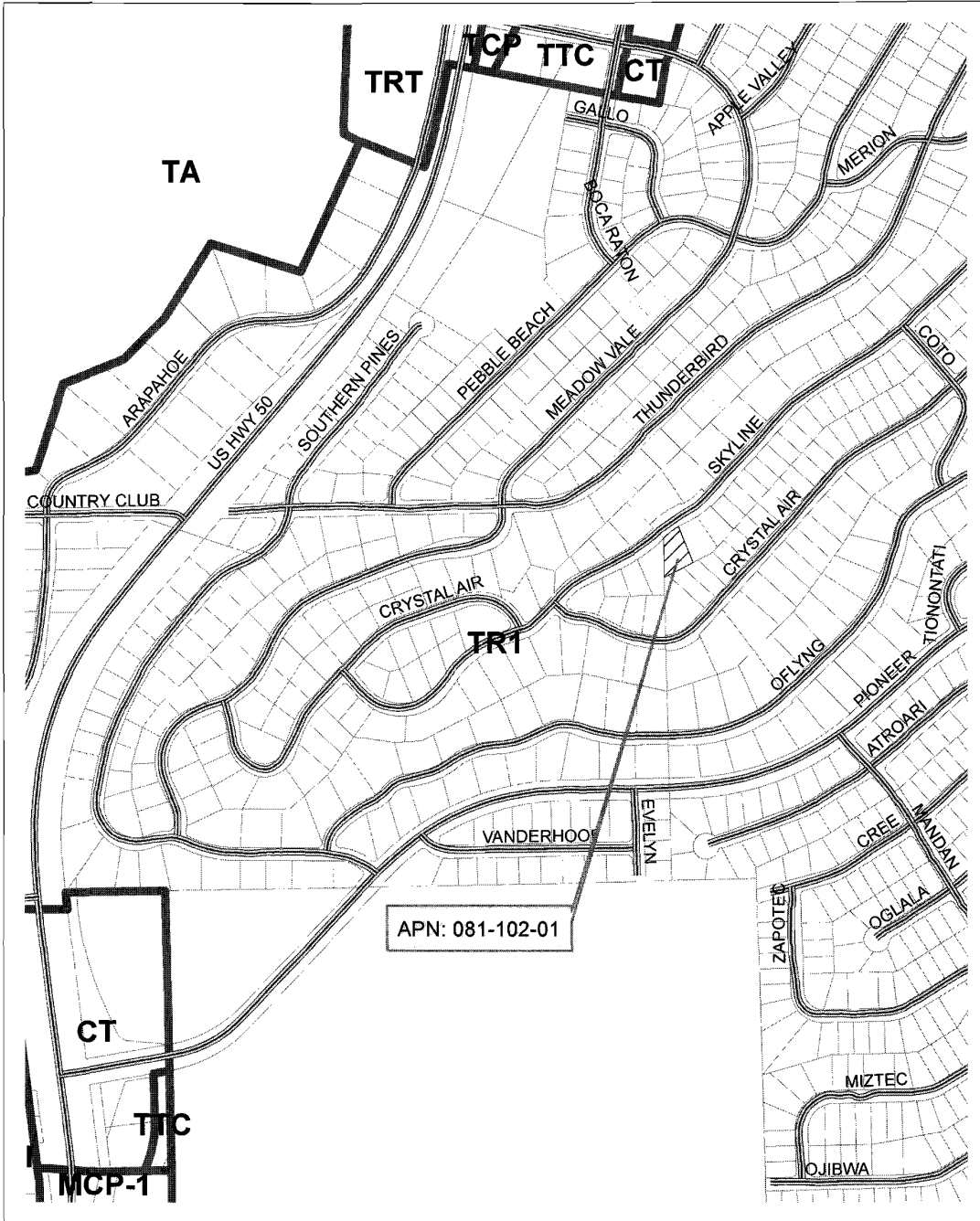
**File No. S14-0009**  
**General Plan Map**  
 AT&T Cell Tower Skyline Drive



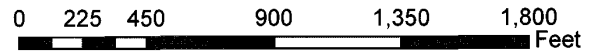
**EXHIBIT C**



# EXHIBIT C-1



**File No. S14-0009**  
**Zoning Map**  
 AT&T Cell Tower Skyline Drive



**EXHIBIT D**

EXHIBIT E-1

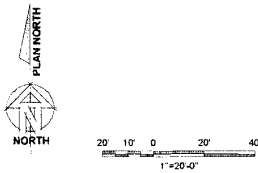
**ABBREVIATIONS**

AAC	ARC CENTERING	MS	MOUNTAINS
ADD	ADJUSTED	MAK	MARSH
AD	ADJACENT	MCN	CONCRETE
AF	ADJUSTED	MCI	MARSH
AG	ADJUSTED	MCL	MARSH
AL	ADJUSTED	MCM	MARSH
AM	ADJUSTED	MCS	MARSH
AN	ADJUSTED	MDC	MARSH
AO	ADJUSTED	ME	MARSH
AQ	ADJUSTED	MFS	MARSH
AR	ADJUSTED	MGR	MARSH
AS	ADJUSTED	MHC	MARSH
AT	ADJUSTED	MID	MARSH
AV	ADJUSTED	MIR	MARSH
AW	ADJUSTED	MIS	MARSH
AX	ADJUSTED	MJA	MARSH
AY	ADJUSTED	MKB	MARSH
AZ	ADJUSTED	MKC	MARSH
B	BENCH MARK	MND	MARSH
B1	BENCH MARK	MNE	MARSH
B2	BENCH MARK	MNF	MARSH
B3	BENCH MARK	MNG	MARSH
B4	BENCH MARK	MNH	MARSH
B5	BENCH MARK	MNI	MARSH
B6	BENCH MARK	MNJ	MARSH
B7	BENCH MARK	MNK	MARSH
B8	BENCH MARK	MNL	MARSH
B9	BENCH MARK	MNM	MARSH
B10	BENCH MARK	MNP	MARSH
B11	BENCH MARK	MNQ	MARSH
B12	BENCH MARK	MNR	MARSH
B13	BENCH MARK	MNS	MARSH
B14	BENCH MARK	MNT	MARSH
B15	BENCH MARK	MNU	MARSH
B16	BENCH MARK	MNV	MARSH
B17	BENCH MARK	MNW	MARSH
B18	BENCH MARK	MNX	MARSH
B19	BENCH MARK	MNY	MARSH
B20	BENCH MARK	MNZ	MARSH

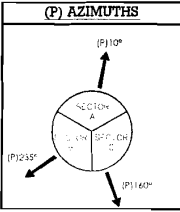
**LEGEND**

- SUBJECT BOUNDARY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- OVERHEAD POWER LINE
- UNDERGROUND POWER LINE
- BURIED GAS LINE
- OVERHEAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE

△	TRANSFORMER	◇	FIRE HYDRANT
⊙	LIGHT STANDARD	×	GATE VALVE
□	POWER VAULT	■	WATER METER
⊞	UTILITY BOX	▣	CATCH BASIN, TYPE I
⊞	UTILITY POLE	▣	CATCH BASIN, TYPE II
○	POLE GUY WIRE	+	SIGN
○	GAS VALVE	+	BOLLARD
○	GAS METER	+	MAIL BOX
○	TELEPHONE VAULT	⊙	SPOT ELEVATION
○	TELEPHONE PEDESTAL		



OVERALL SITE PLAN  
SCALE: 1/4" = 1'-0"



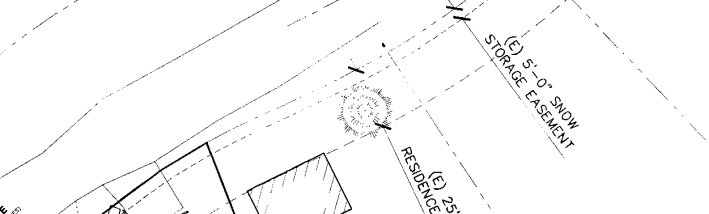
(E) UTILITY POLE BE UTILIZED AS TELCO AND POWER SOURCE. VERIFY LOCATION WITH UTILITY COMPANIES

PLACE RISER TO POLE FOR POWER WITH WEATHERHEAD TO (E) N-36 BOX NEAR BASE OF POLE. PLACE 3" UNDERGROUND ELECTRICAL CONDUIT FROM (E) N-36 BOX TO (P) 200AMP METER ON SHELTER (APPROX. 160')

(P) 8'-0" ACCESS & UTILITY EASEMENT

16'-8" TO PL

NOTE: REFERENCE SURVEY BY QUIET RIVER DATED DECEMBER 16, 2014 FOR ALL EASEMENT & LEASE DESCRIPTIONS



NOTE: REFERENCE SURVEY BY QUIET RIVER DATED DECEMBER 16, 2014 FOR ALL EASEMENT & LEASE DESCRIPTIONS. ALL EXISTING TREES WITHIN NEW AT&T COMPOUND TO REMAIN UNTOUCHED. PLACE TRAFFIC RATED 30"x48" 11kV PULL BOXES EVERY 300' AND/OR AFTER 2 BENDS.

Prepared For  
**CNU6214**  
SKYLINE DR. & CRYSTAL AIR DR.  
1697 SKYLINE DR.  
SOUTH LAKE TAHOE,  
CA 96150

PREPARED FOR  
**at&t**  
2440 Camino Ramon, #4050 N  
San Ramon, California 94583

**Shore 2 Shore Wireless**  
124 AMANDA COURT  
FREMONT, CA 94529  
PHONE: 424-2934  
FAX: 424-2923

AT&T REF ID: CNU6214  
PROJECT NO: 7168498  
DRAWN BY: ASG  
CHECKED BY: RJG

REVISIONS

NO.	DATE	DESCRIPTION
1		ISSUED FOR PERMITS

CLIENT

DATE	
DRAWN BY	
CHECKED BY	

**W-T**  
W-T COMMUNICATION  
DESIGN GROUP, LLC  
2010 PULFORD AVENUE  
SUITE 200, SAN RAMON, CALIF  
94583  
PH: 925.392.0303 FAX: 925.392.0884  
WWW.WTDESIGNGROUP.COM

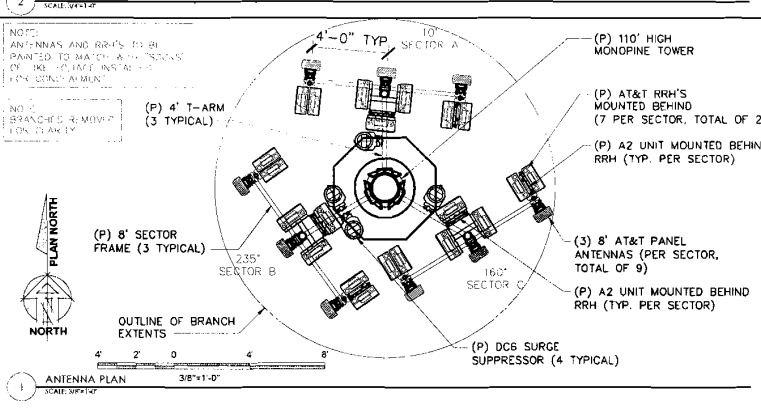
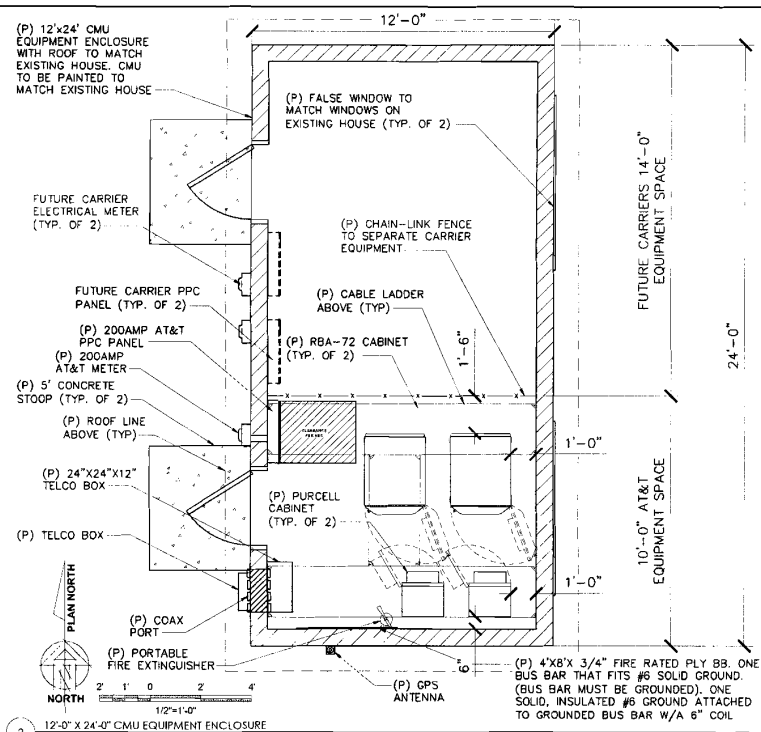
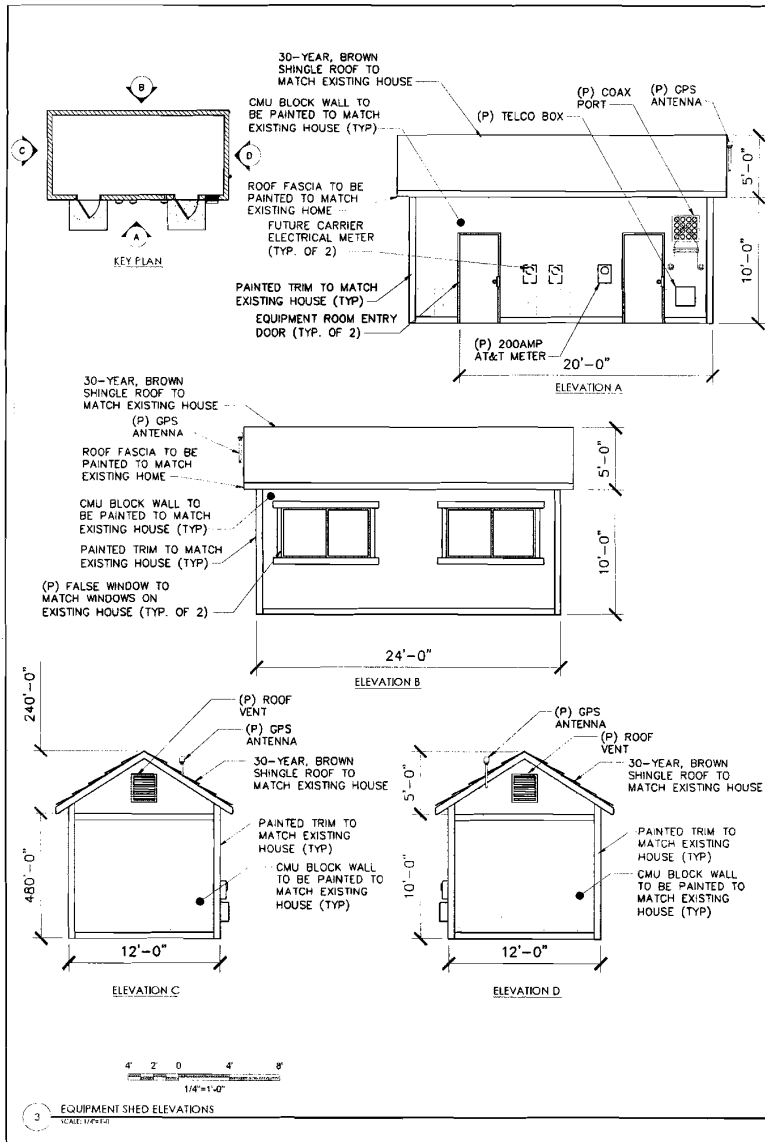
SHEET TITLE  
**OVERALL SITE PLAN**  
SHEET NUMBER  
**A1**







# EXHIBIT E-4



Issued For:  
**CNU6214**  
**SKYLINE DR. & CRYSTAL AIR DR.**  
 1697 SKYLINE DR.  
 SOUTH LAKE TAHOE,  
 CA 96150

PREPARED FOR:  
  
 1400 California Parkway, #4000  
 San Ramon, California 94583

12740 MARKET STREET  
 FORTUNA, CA 94502  
 (925) 766-5555

DATE: 08/14/08  
 PROJECT NO: E140498  
 DRAWN BY: ASG  
 CHECKED BY: FJC

SCALE: 1/4"=1'-0"

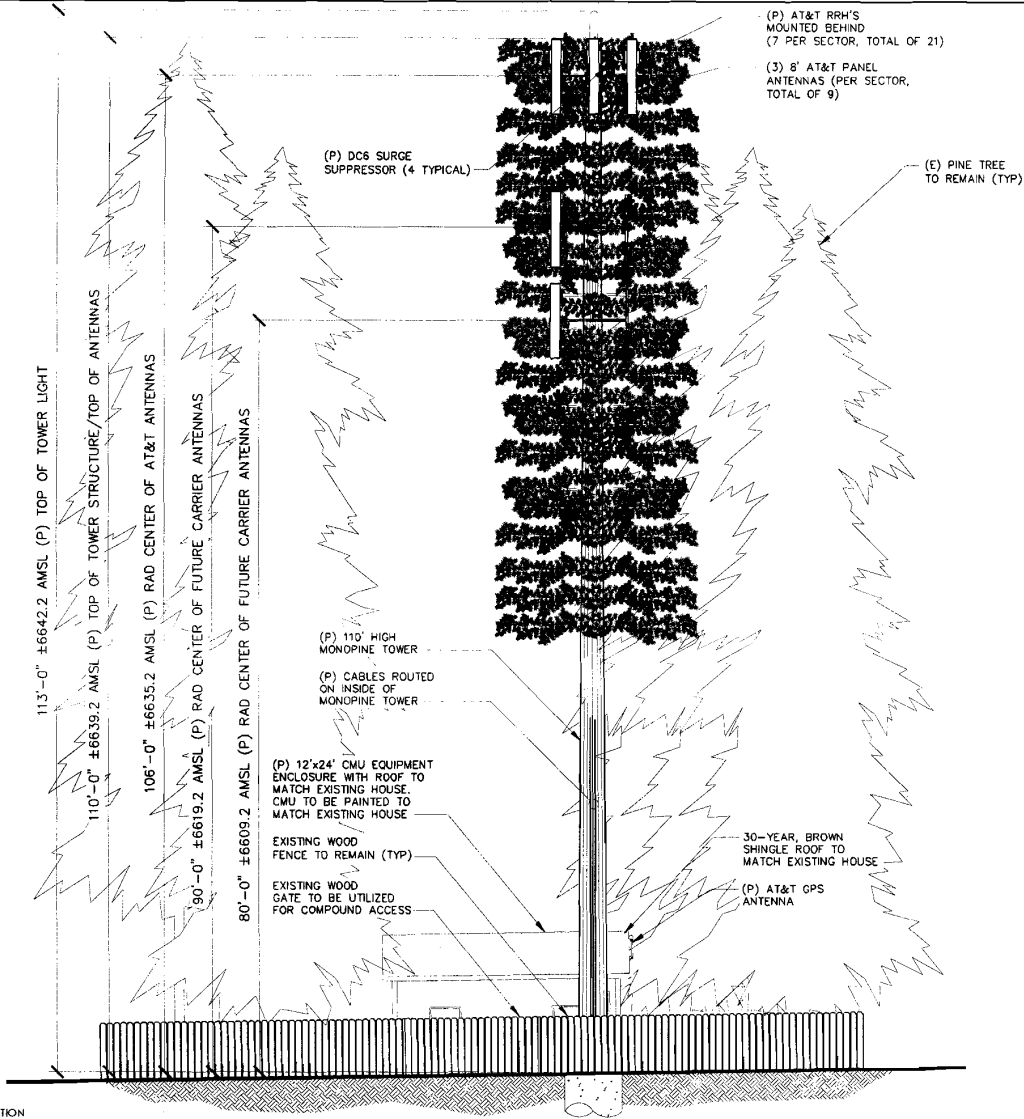
SCALE: 3/8"=1'-0"

**W-T COMMUNICATION DESIGN GROUP, LLC.**  
 3015 PINEHURST AVENUE  
 SUITE 100  
 FORTUNA, CA 94502  
 PH: (925) 926-8833 FAX: (925) 926-8444  
 WWW.WTDESIGN.COM

SHEET TITLE:  
 EQUIPMENT ENCLOSURE  
 PLAN, ELEVATIONS  
 & ANTENNA PLAN

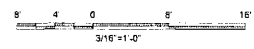
SHEET NUMBER:  
**A3**

# EXHIBIT E-5



NOTE

- ANTENNAS AND RRH'S TO HAVE "SOLIDS" OF LEAF FOLIAGE INSTALLED FOR CONCEALMENT
- BRANCHES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY, NOT TO SCALE
- ADDITIONAL RAD CENTERS AVAILABLE FOR FUTURE GROWTH AND TRANSFER OF EQUIPMENT FROM EXISTING NEIGHBORING TOWER
- SIGNAL LIGHT TO HAVE INTERNAL REFLECTORS TO FOCUS THE SIGNAL LIGHT IN A 180 ARC ABOVE THE TOWER



1 PROPOSED WEST ELEVATION  
SCALE: 3/16"=1'-0"

Prepared For  
**CNU6214**  
 SKYLINE DR. & CRYSTAL AIR DR.  
 1697 SKYLINE DR.  
 SOUTH LAKE TAHOE,  
 CA 96150

PREPARED FOR  
  
 2400 Cypress Canyon, 49350 N  
 San Antonio, California 78248

Shore 2 Shore Wireless  
 17120 N. LAKE BLVD  
 SUITE 100  
 SHERIDAN, IDAHO 83401  
 (208) 794-5753

AT&T REF ID: CNU6214  
 PROJECT NO: T140498  
 DRAWN BY: ASG  
 CHECKED BY: PJC

NO.	DATE	DESCRIPTION
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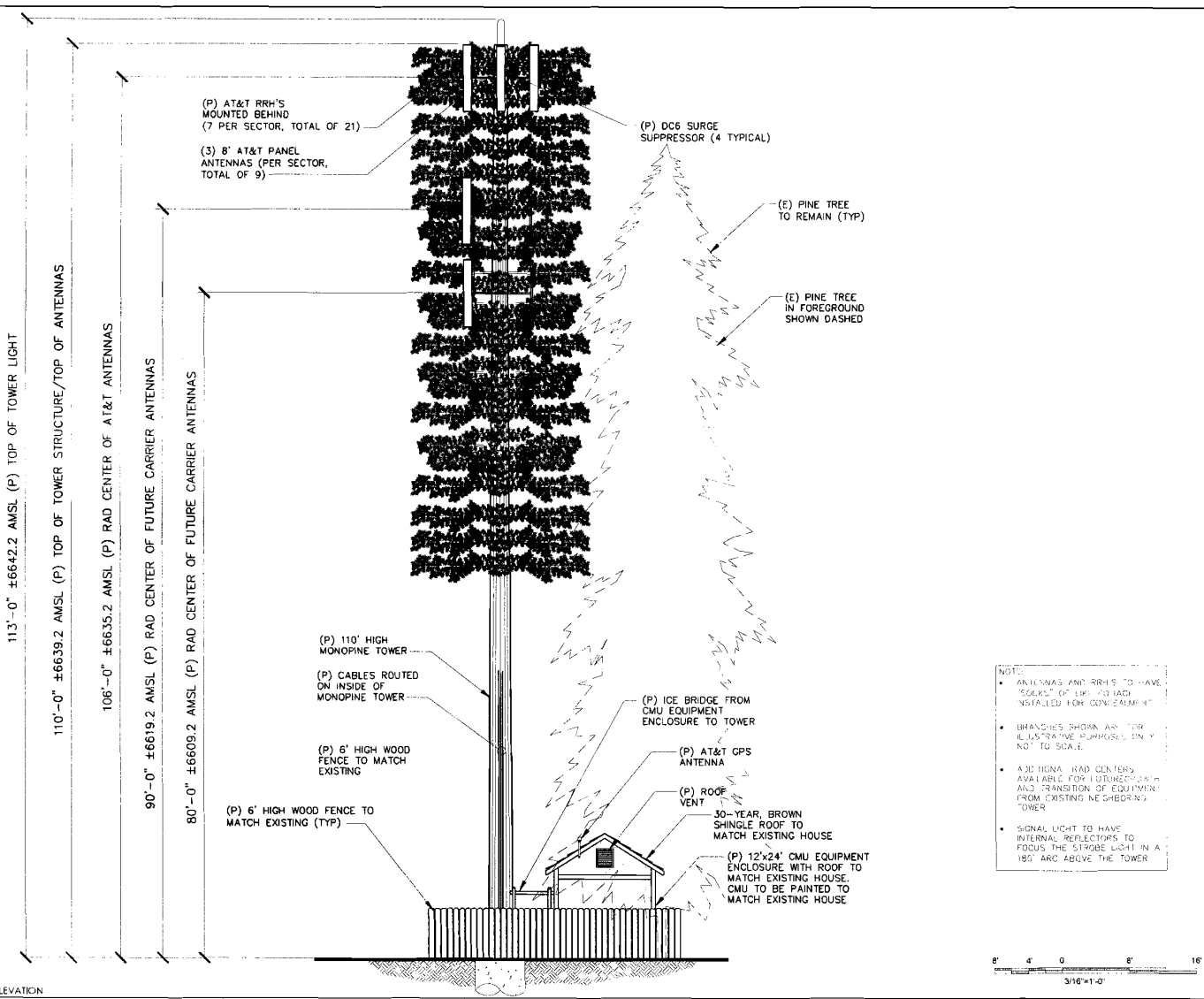
Licensee

**WT**  
 W-T COMMUNICATION DESIGN GROUP, LLC  
 WIRELESS INFRASTRUCTURE  
 2875 PRAIRIE AVENUE  
 SUITE 100  
 WEST LAKE, CALIFORNIA 91381  
 PH (818) 254-1111 FAX (818) 254-1111  
 WWW.WTDESIGN.COM

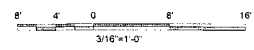
SHEET TITLE  
 WEST ELEVATION

SHEET NUMBER  
**A4**

# EXHIBIT E-6



NOTE:  
 1. ANTENNAS AND RRH'S TO HAVE "SOCKET" OF LINE TO EACH INSTALLED FOR CONFORMANCE  
 2. BRANCHES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY NOT TO SCALE  
 3. ALL HIGH RAD CENTERS AVAILABLE FOR FUTURE GROWTH AND TRANSITION OF EQUIPMENT FROM EXISTING NEIGHBORING TOWER  
 4. SIGNAL LIGHT TO HAVE INTERNAL REFLECTORS TO FOCUS THE STROBE LIGHT IN A 180° ARC ABOVE THE TOWER



1 PROPOSED SOUTH ELEVATION  
SCALE: 1/8\"/>

Served For  
**CNU6214**  
 SKYLINE DR. &  
 CRYSTAL AIR DR.  
 1697 SKYLINE DR.  
 SOUTH LAKE TAHOE,  
 CA 96150

PREPARED FOR  
  
 2405 Contra Ramon, #403011  
 San Ramon, California 94583

**Shore 2 Shore Wireless**  
 158 AMANDA DRIVE  
 FOLSOM, CALIFORNIA 95630  
 916-933-8888  
 916-933-2225

AT&T PRJ NO: CNU6214  
 PROJECT NO: 1140499  
 DRAWN BY: ASG  
 CHECKED BY: LJS

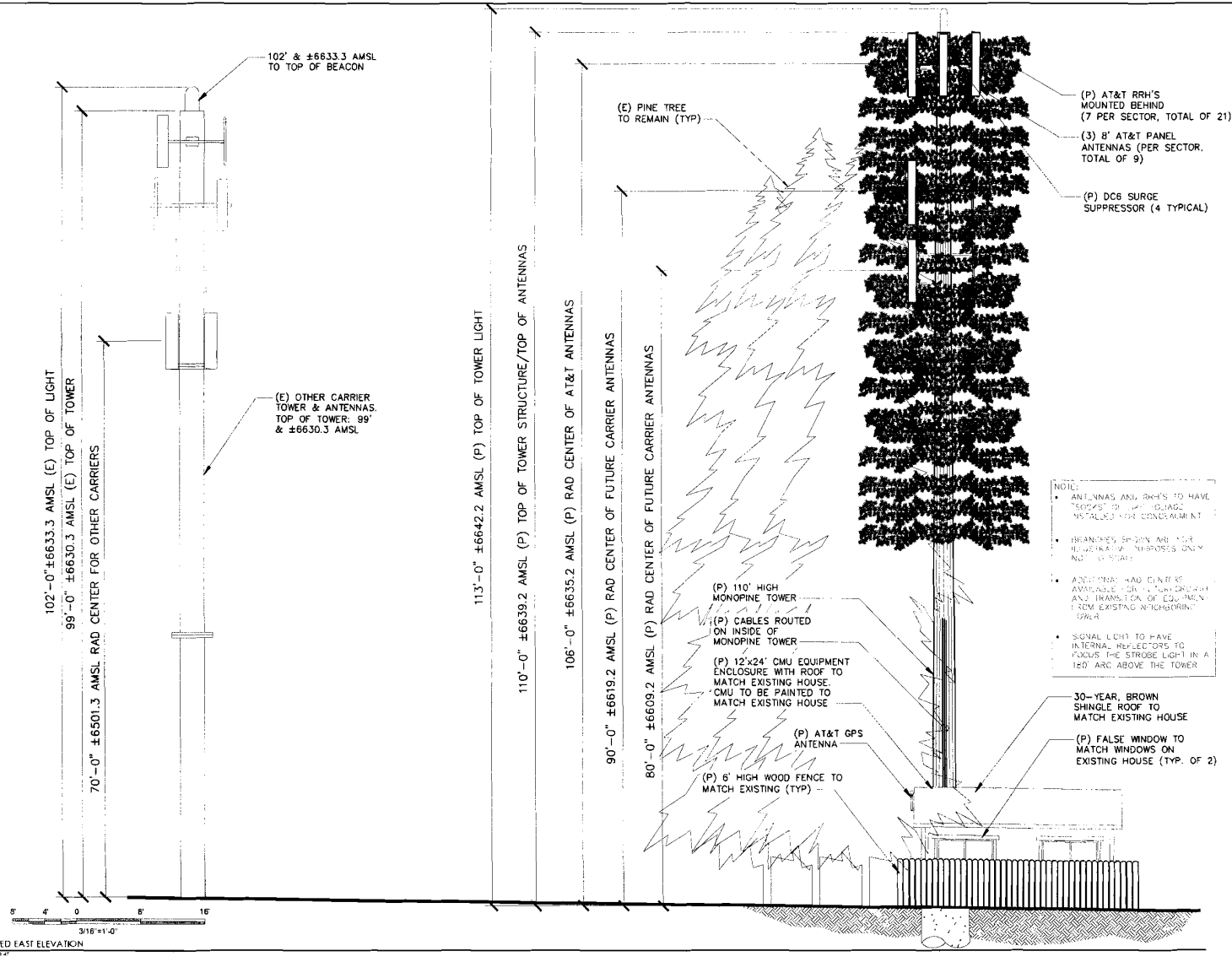
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2	12/15/14	REVISED FOR CONSTRUCTION
3	12/15/14	REVISED FOR CONSTRUCTION
4	12/15/14	REVISED FOR CONSTRUCTION
5	12/15/14	REVISED FOR CONSTRUCTION
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9	12/15/14	REVISED FOR CONSTRUCTION
10	12/15/14	REVISED FOR CONSTRUCTION

LICENSE:  
 W-T COMMUNICATION DESIGN GROUP, LLC  
 2015 PRAIRIE AVENUE  
 SUITE 100  
 FOLSOM, CALIFORNIA 95630  
 PH: (916) 933-8888 FAX: (916) 933-2225  
 WWW.WTCDGROUP.COM

**W-T**  
**COMMUNICATION**  
**DESIGN GROUP, LLC.**  
 2015 PRAIRIE AVENUE  
 SUITE 100  
 FOLSOM, CALIFORNIA 95630  
 PH: (916) 933-8888 FAX: (916) 933-2225  
 WWW.WTCDGROUP.COM


SHEET TITLE:  
 SOUTH  
 ELEVATION  
 SHEET NUMBER:  
**A5**


# EXHIBIT E-7



PROPOSED EAST ELEVATION  
SCALE: 1/8"=1'-0"


Prepared For  
**CNU6214**  
 SKYLINE DR. &  
 CRYSTAL AIR DR.  
 1497 SKYLINE DR.  
 SOUTH LAKE TAHOE,  
 CA 96150

PREPARED FOR  
  
 2600 Camino Ramon, #465011  
 San Ramon, California 94583

  
 170 AMERICA DRIVE  
 RICHMOND, CALIFORNIA  
 94804-5400  
 (916) 796-2271

AT&T REF. NO.	CNU6214
PROJECT NO.	T160498
DRAWN BY:	ASEG
CHECKED BY:	R/JG

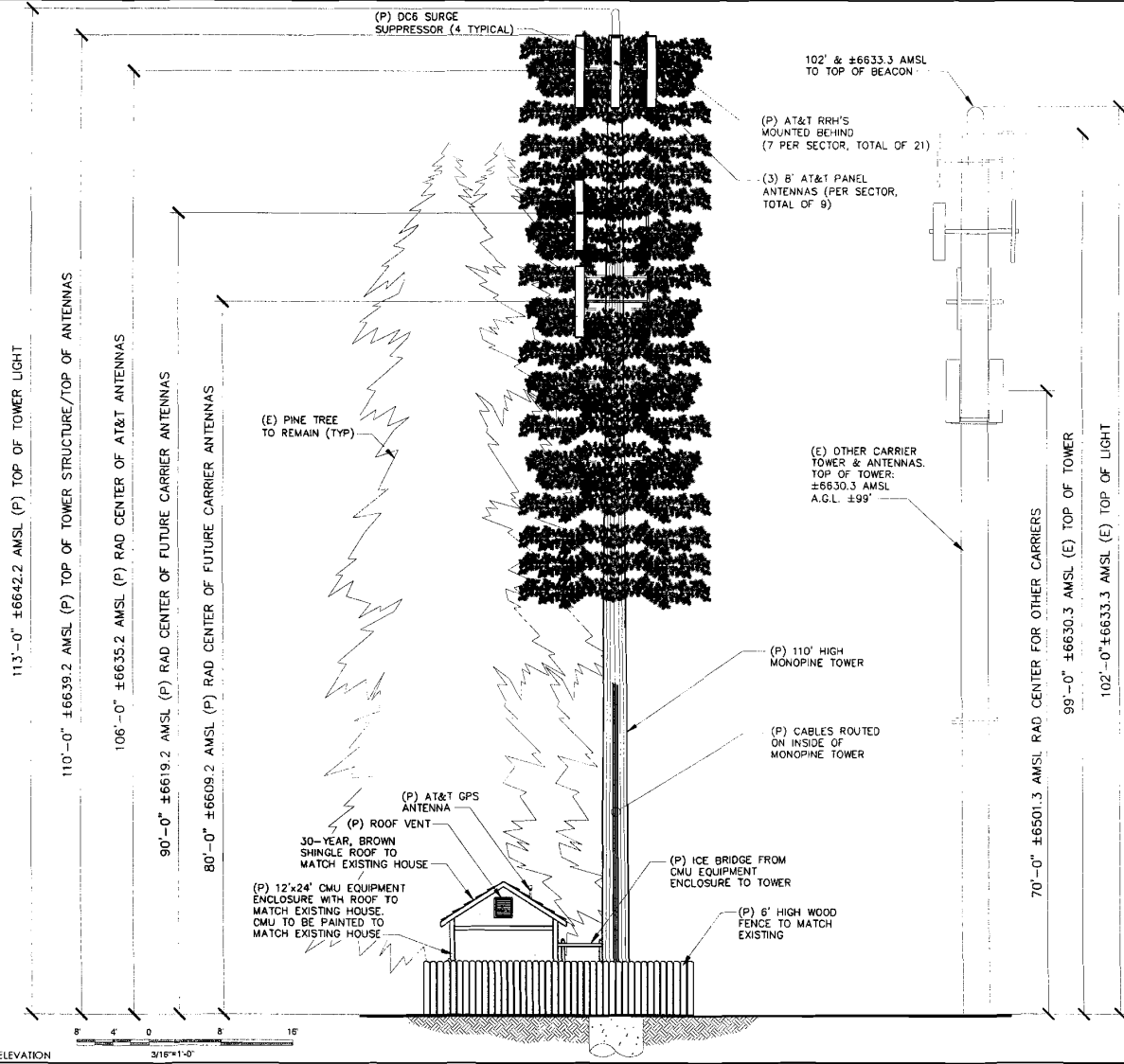
Location:  
 1497 SKYLINE DR. SOUTH LAKE TAHOE, CA 96150  
 (916) 796-2271

  
**W-T COMMUNICATION  
 DESIGN GROUP, LLC.**  
 COMMERCIAL ARCHITECTURE  
 3675 PRATT AVENUE  
 SUITE 200, TAYLORVILLE, IL 62586  
 PH (217) 825-5474 FAX (217) 825-6666  
 www.wtgroup.com

SHEET TITLE:  
**EAST  
 ELEVATION**

SHEET NUMBER:  
**A6**

# EXHIBIT E-8



PROPOSED NORTH ELEVATION  
SCALE: 3/16"=1'-0"

- NOTES:
- ALL MATERIALS AND METHODS TO BE USED SHALL BE APPROVED BY THE LOCAL HEALTH DEPARTMENT.
  - MATERIALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.
  - ADDITIONAL RAD CENTERS AVAILABLE FOR FUTURE GROWTH AND TRANSFER OF EQUIPMENT FROM EXISTING NEIGHBORING TOWER.
  - SIGNAL LIGHT TO HAVE INTERNAL REFLECTORS TO FOCUS THE STROBE LIGHT IN A 180° ARC ABOVE THE TOWER.

Issued For:  
**CNU6214**  
SKYLINE DR. & CRYSTAL AIR DR.

1697 SKYLINE DR.  
SOUTH LAKE TAHOE,  
CA 96150



AT&T SITE NO: C#114214  
PROJECT NO: 114049E  
DRAWN BY: ASG  
CHECKED BY: RJG

NO.	REVISION	DATE
1	ISSUED FOR PERMITS	08/20/14
2	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14
3	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14
4	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14
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27	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14
28	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14
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50	REVISED TO REFLECT COMMENTS FROM THE HEALTH DEPARTMENT	09/02/14

License:

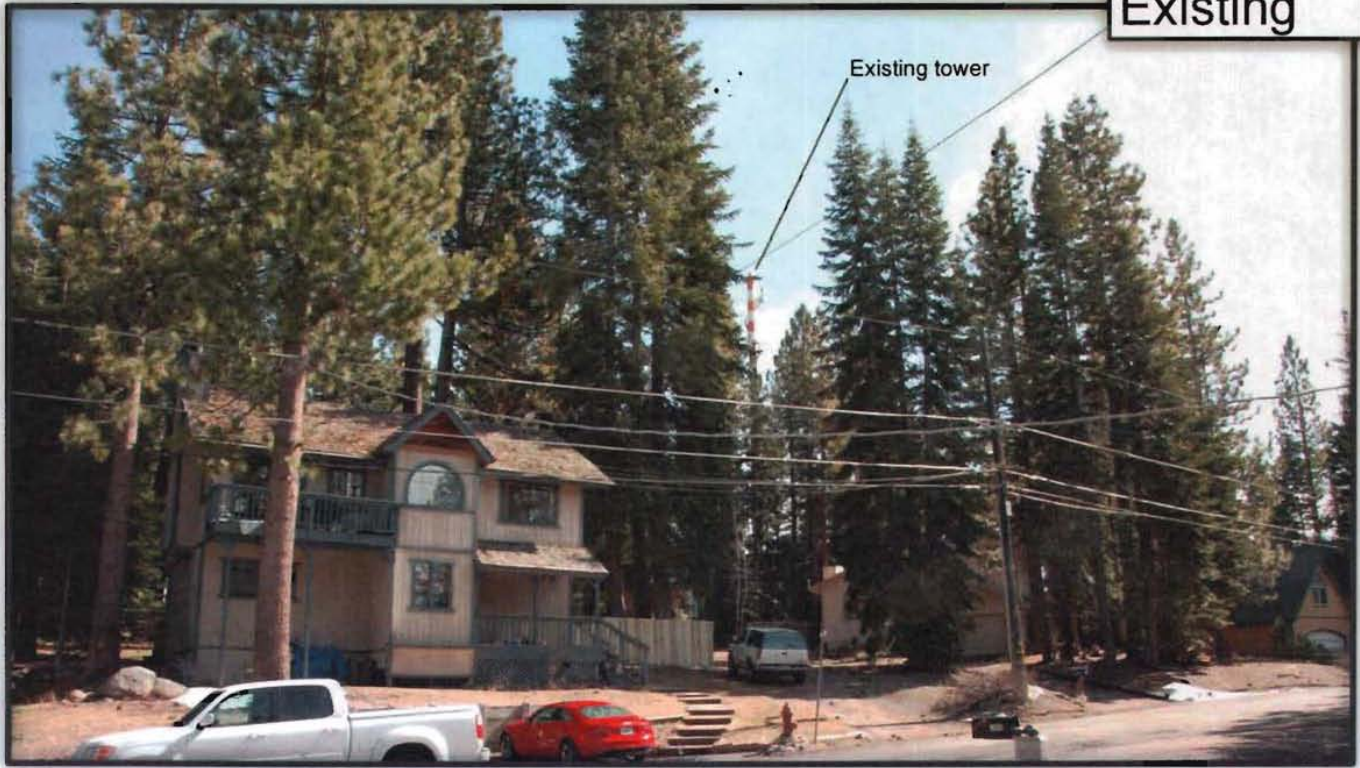
NO. 114049E  
PROJECT NO. 114049E  
DRAWN BY: ASG  
CHECKED BY: RJG



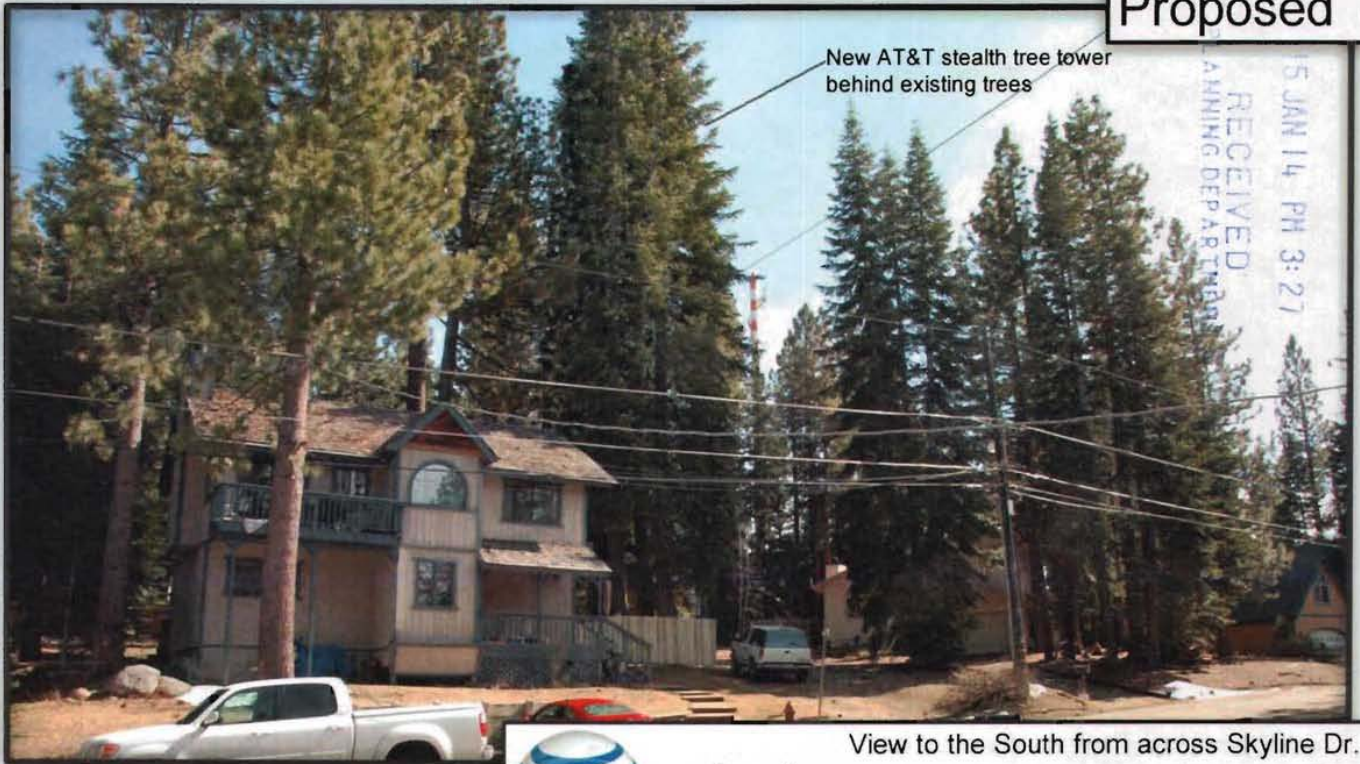
SHEET TITLE:  
**NORTH ELEVATION**

SHEET NUMBER:  
**A7**

Existing



Proposed



New AT&T stealth tree tower behind existing trees

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PLANNING DEPARTMENT  
JAN 14 PM 3:27

View to the South from across Skyline Dr.

1697 Skyline Dr.

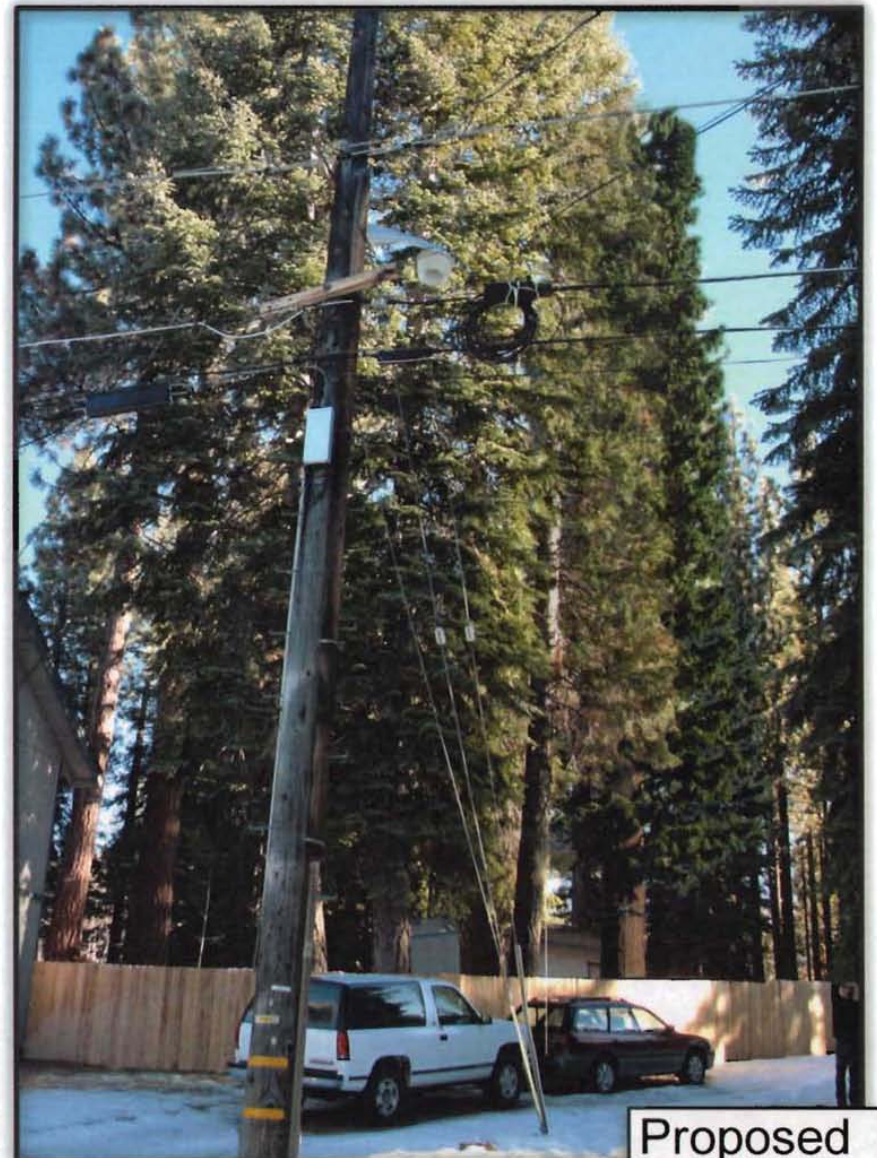
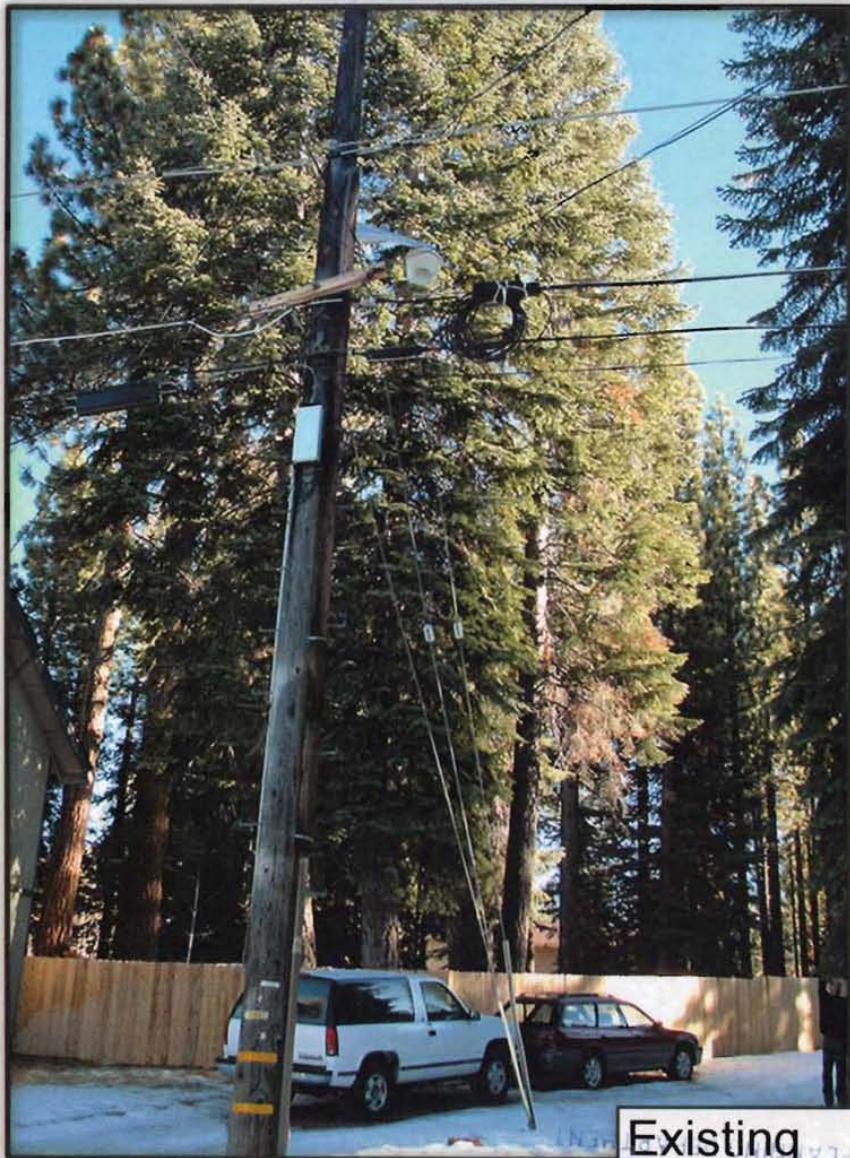
South Lake Tahoe, CA 96150



at&t



EXHIBIT F



15 JAN 14 PM 3:21



at&t

View to the South East from across Skyline Dr.  
1697 Skyline Dr.  
South Lake Tahoe, CA 96150

# Analysis

16 AUG -1 AM 9:17

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PLANNING DEPARTMENT

Skyline Drive and Crown Colo are located on a small hill with 360 degrees views at elev. (6540ft).

The site located at Skyline Drive would cover the houses on Skyline Drive as well N Upper Truckee Rd and Lake Tahoe Blvd elev. (6550ft) and the valley below. This site will also provide congestion relief for existing site CNU6295B.

EXHIBIT G

The site located at Crown Colo would cover the houses on Skyline Drive but fail to provide indoor coverage to N Upper Truckee Rd and Lake Tahoe Blvd elev. (6550ft) because of losses cause by the trees. This issue is shown on slide 3. Because of the losses it would limit congestion relief for existing site CNU6295B.

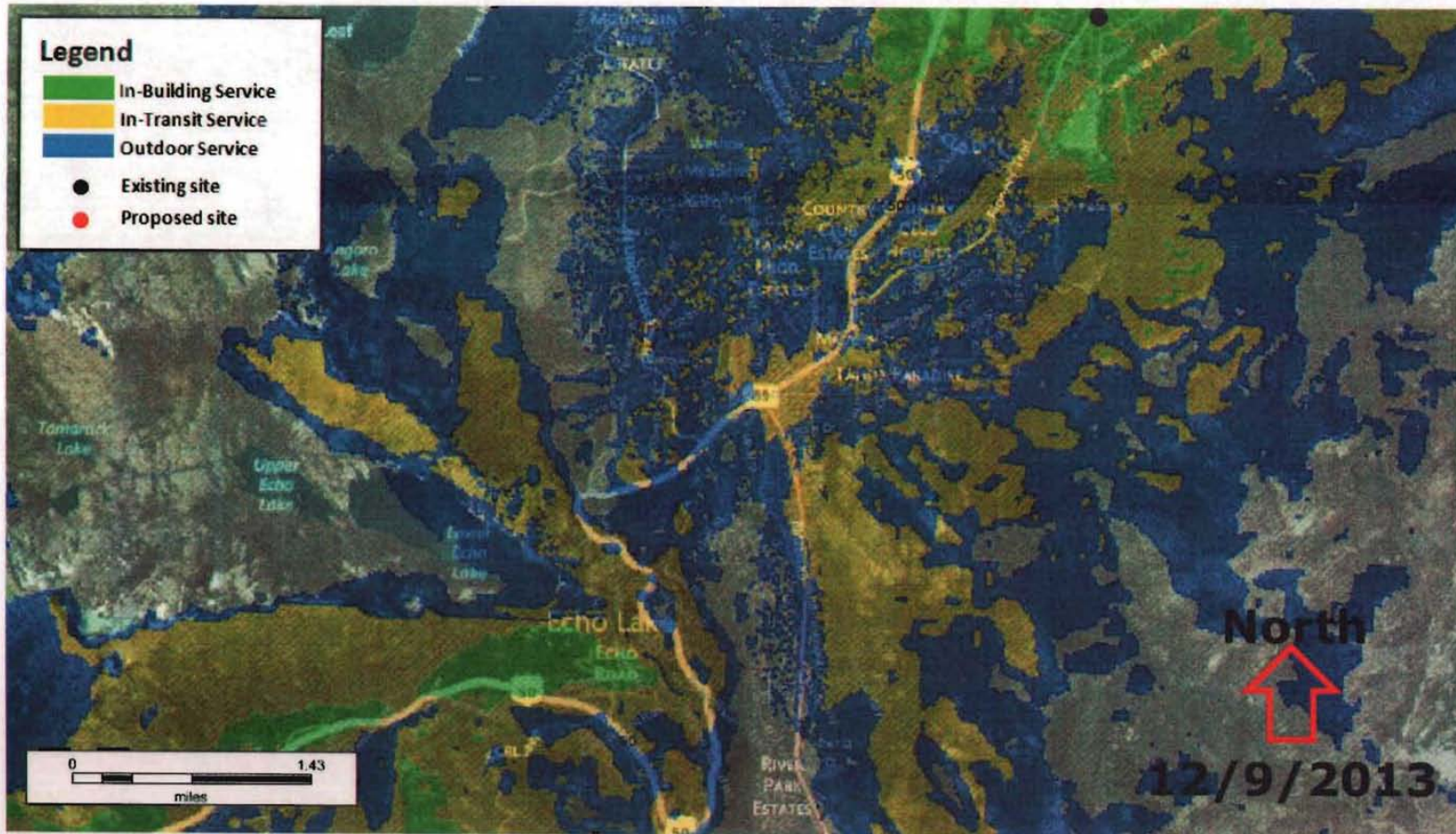
The Fire Station elev. (6368ft) which is 182ft below the options Skyline Drive and Crown Colo and would provide worst coverage. And would fail to cover the housing on N Upper Truckee Rd and Lake Tahoe Blvd (6550ft). It would also provide limited relief to CNU6295B.

Because of the limitation of the other two options the preferred option would be at Skyline Drive.

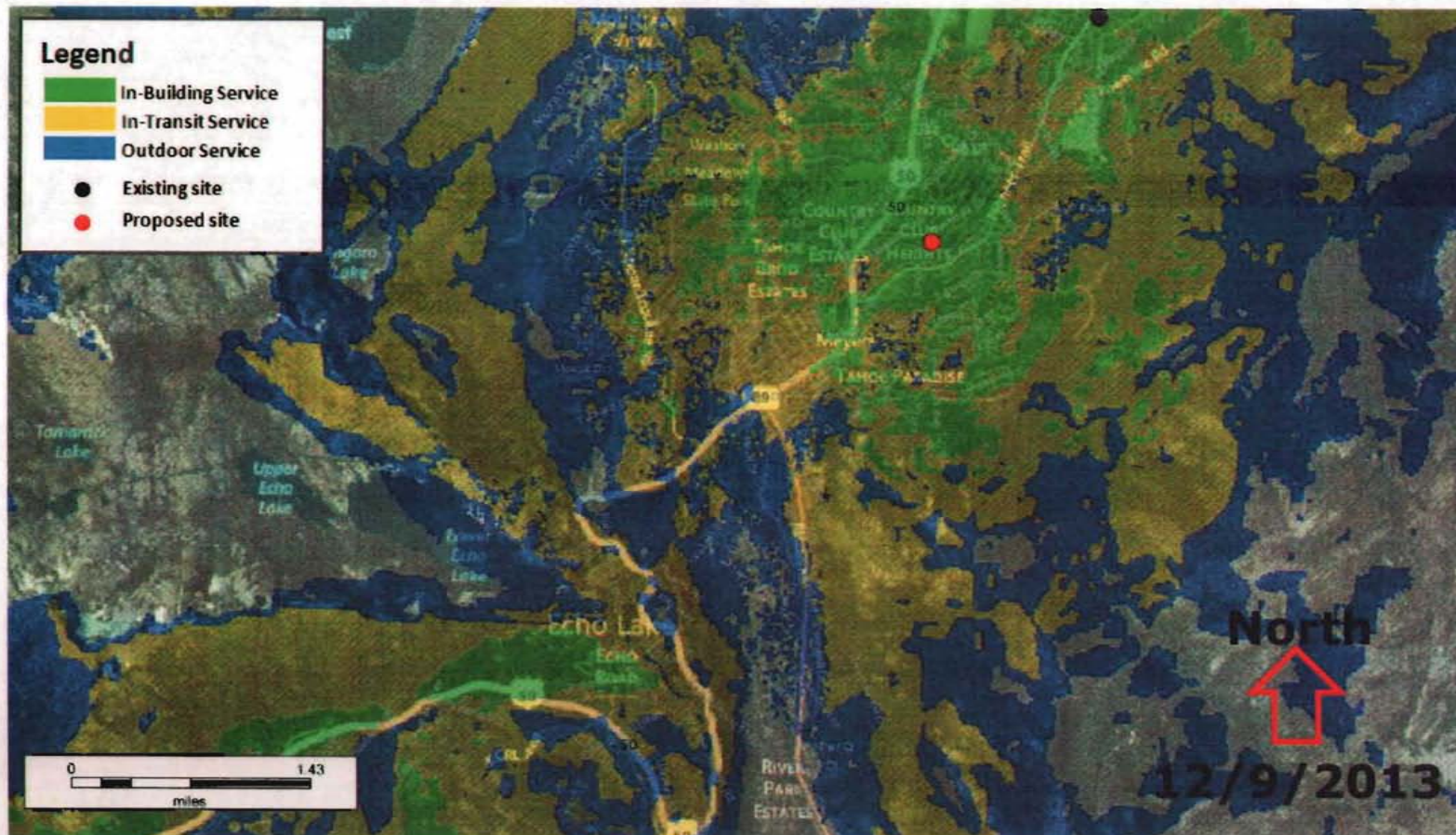


# Baseline Signal Level

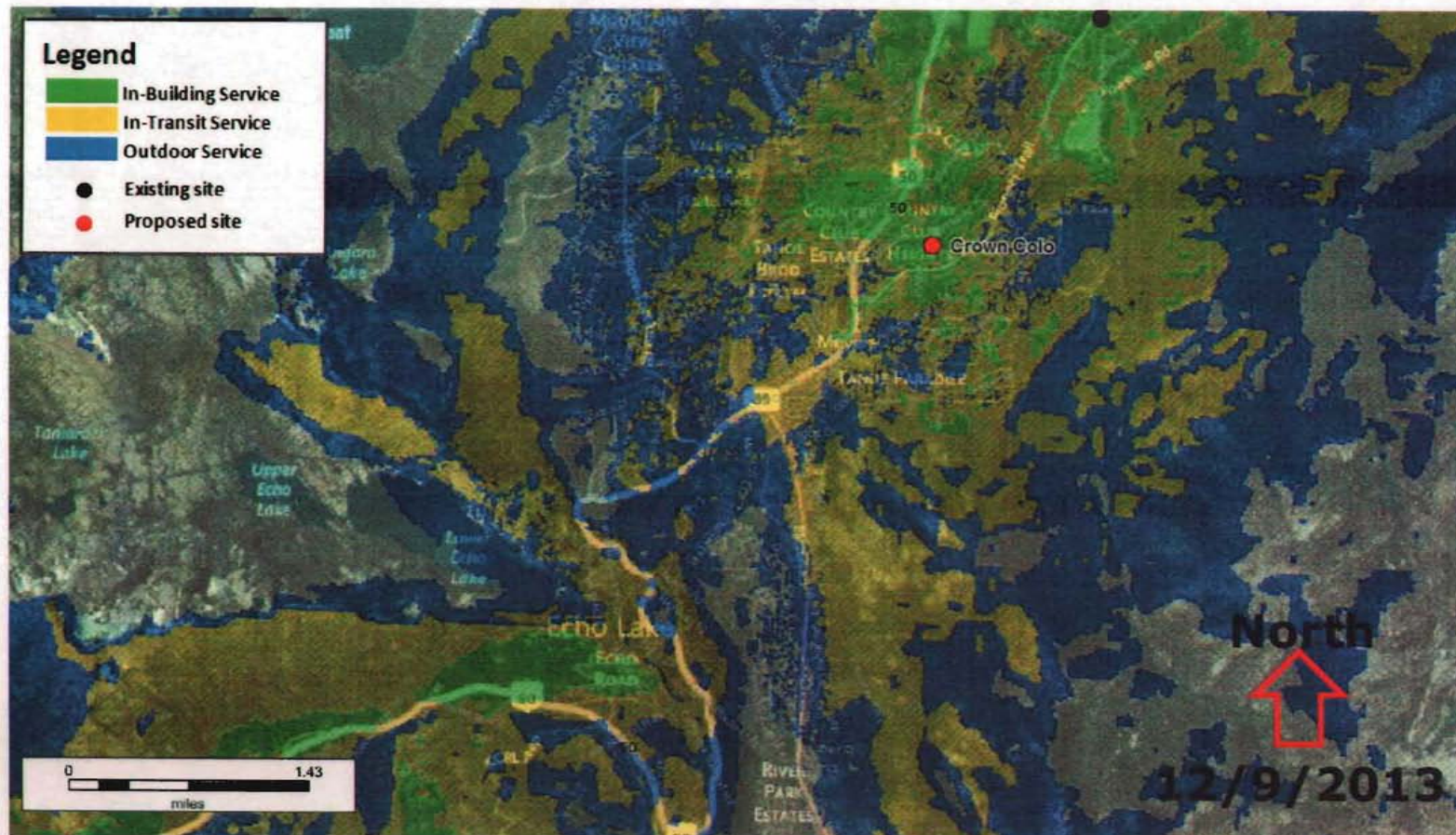
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# Signal Level Skyline Drive @ 80ft



# Signal Level Crown Colo @ 58ft



Rethink Possible®



15 FEB -5 PM 4:41

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EXHIBIT G-1

**CNU6214 – Skyline Dr. & Crystal Air Dr.  
1697 Skyline Dr. South Lake Tahoe, CA 96150**

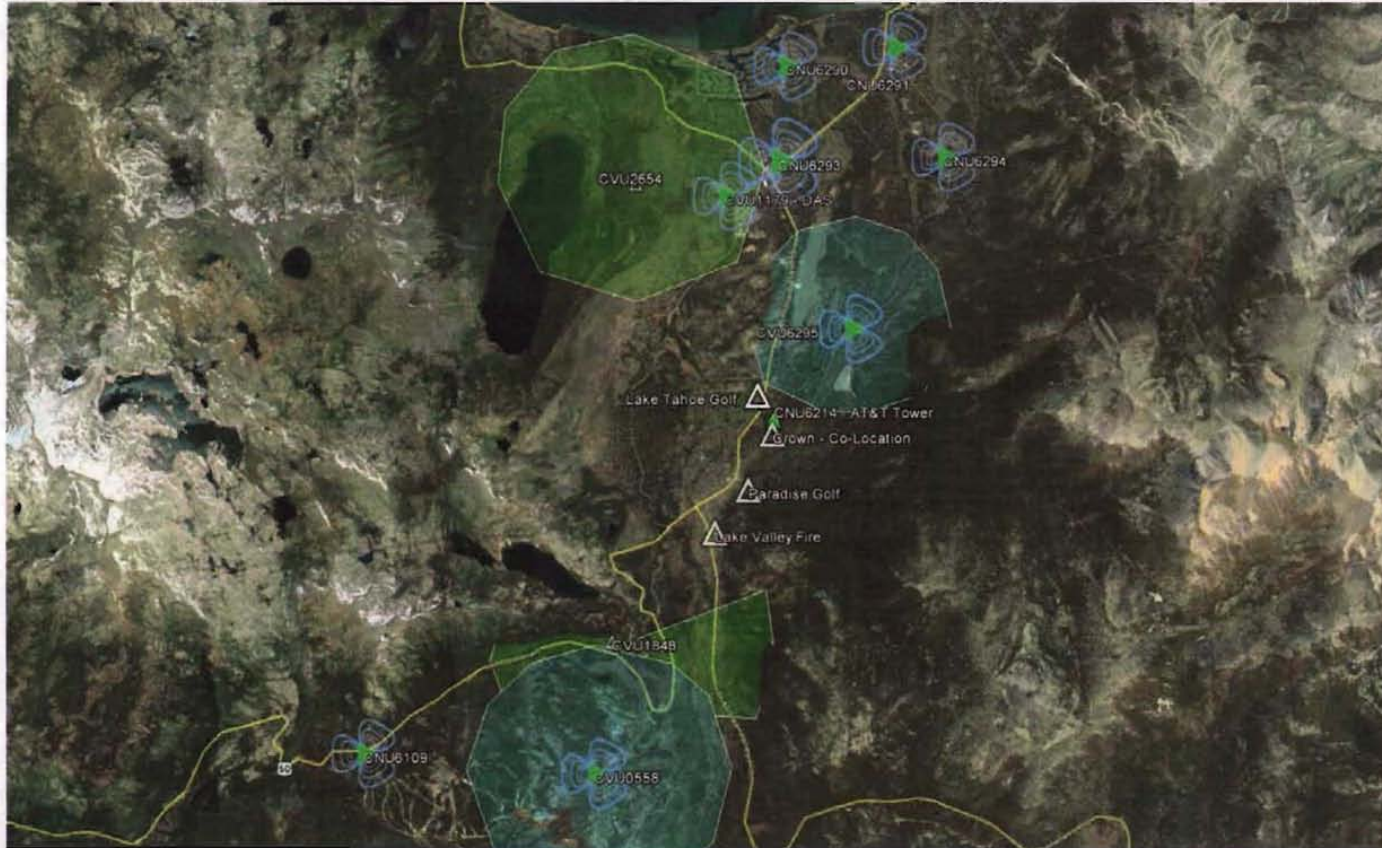
# **Supplemental Alternative Site Analysis**

As approved by AT&T RF Engineer James Temple  
[jt789y@att.com](mailto:jt789y@att.com) – (916) 486-3008

AT&T RESTRICTED CONFIDENTIAL AND PRIVILEGED ATTORNEY CLIENT COMMUNICATION

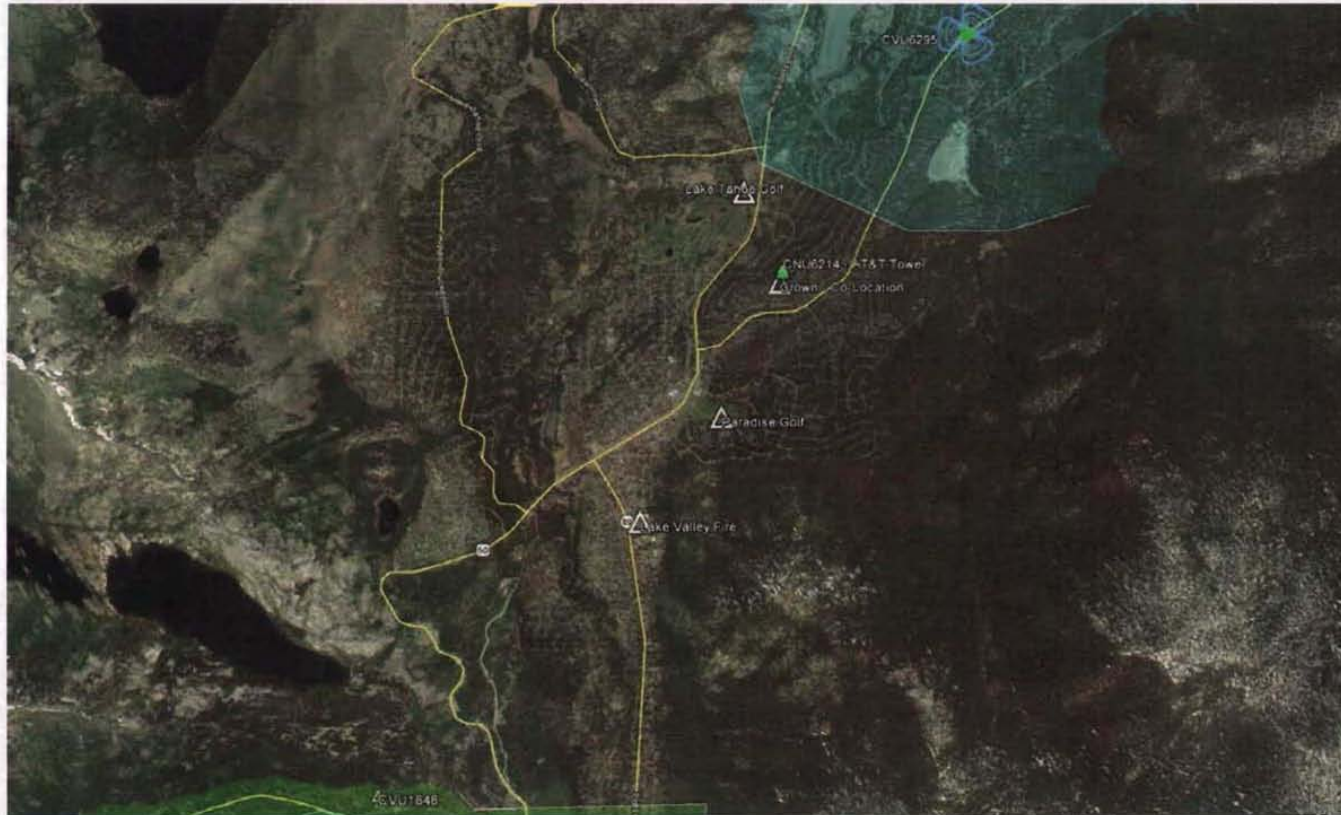
Rev.3 - 02-05-15 - Page 1

# CNU6214 – Overview Map



On the map above, the Primary site location located at 1697 Skyline Dr. is marked with a green tree. 4 alternative sites that AT&T analyzed are marked with triangle pins. Existing sites are marked with green triangles and existing primary coverage is marked with blue shading. Other AT&T projects and coverage are marked with green shading.

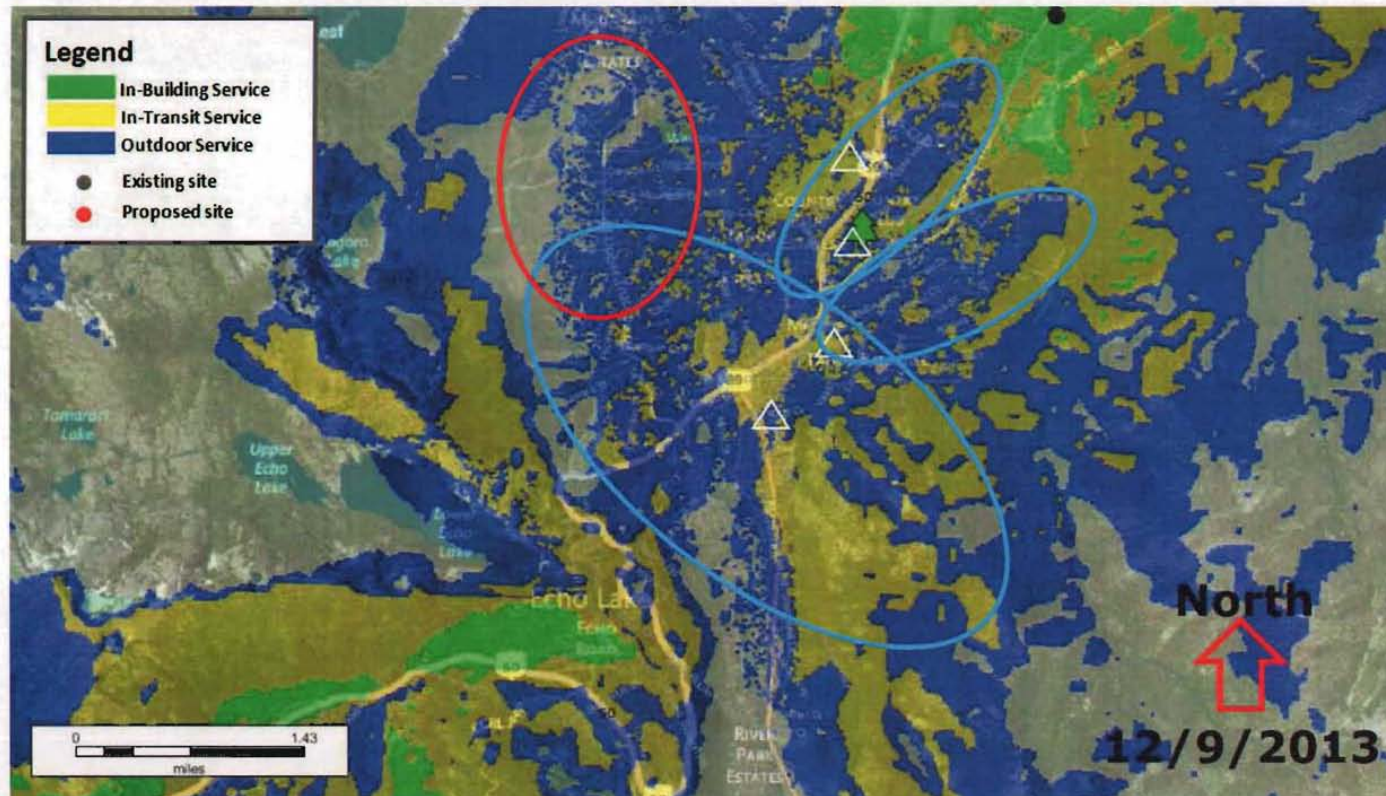
# CNU6214 – Area Map



## Locations Analyzed:

1. CVU6214 - Proposed New 110' Stealth Pine Tree Tower
2. Crown Co-Location: Proposed Co-Location at 58' on Existing Crown Castle FAA Tower
3. Lake Valley Fire: Proposed New 110' Stealth Pine Tree Tower
4. Paradise Golf: Proposed New 110' Stealth Pine Tree Tower
5. Lake Tahoe Golf: Proposed New 110' Stealth Pine Tree Tower

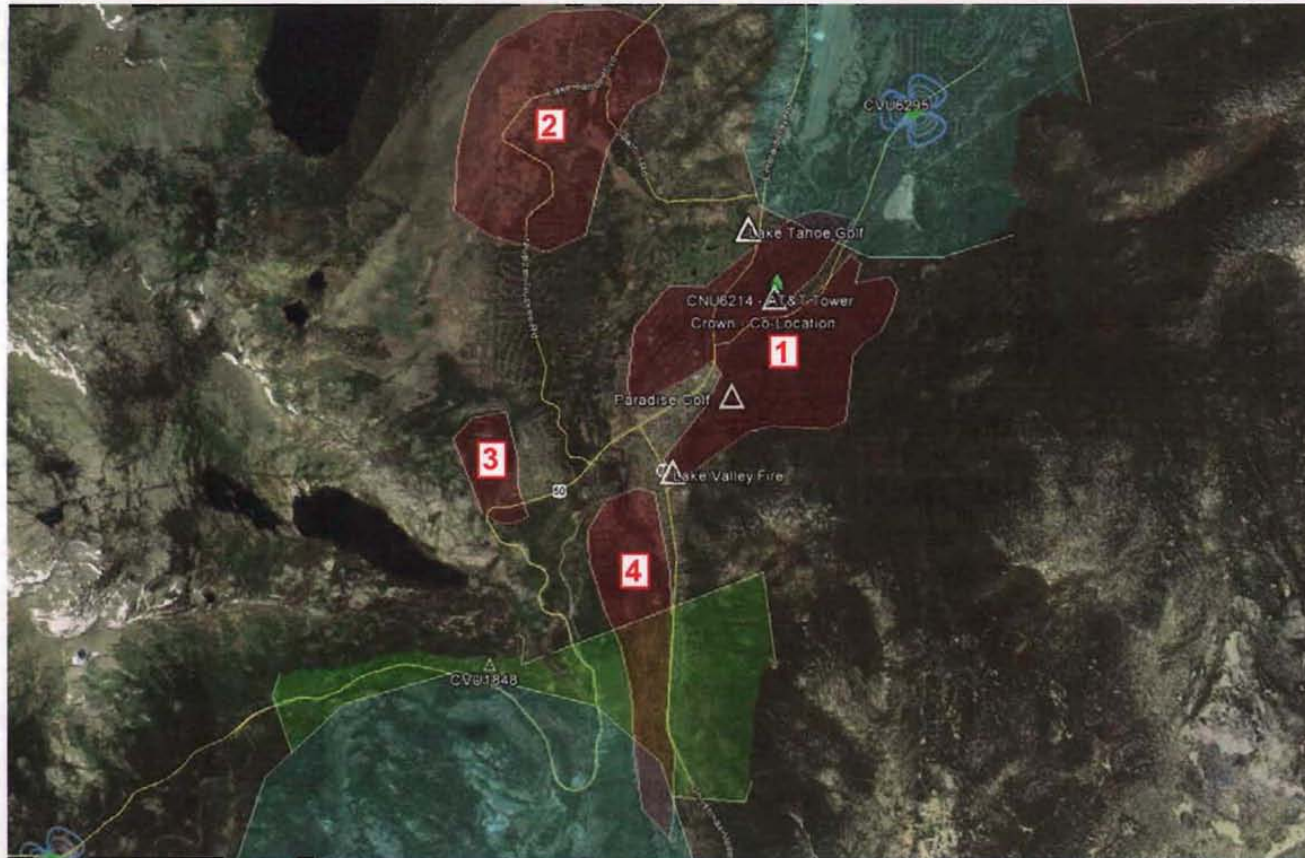
# CNU6214 – Existing Coverage Map



Existing AT&T coverage in the area surrounding the intersections of Hwy-50 & Hwy-89 is shown in the image above. Areas represented in Green have good indoor coverage. Areas of yellow represent gaps in the in-building service, and areas of blue tend to only support calls while outside away from obstructions. Areas with no color represent gaps where AT&T service does not exist in the area.

Areas within the red oval represents an area with no, or severely limited AT&T wireless service, the area within the blue ovals have congested service, which represents a lack of or limitation of service during peak usage hours. All of which are specific objectives of the proposed AT&T wireless installation presented.

# CNU6214 – Existing Coverage Map



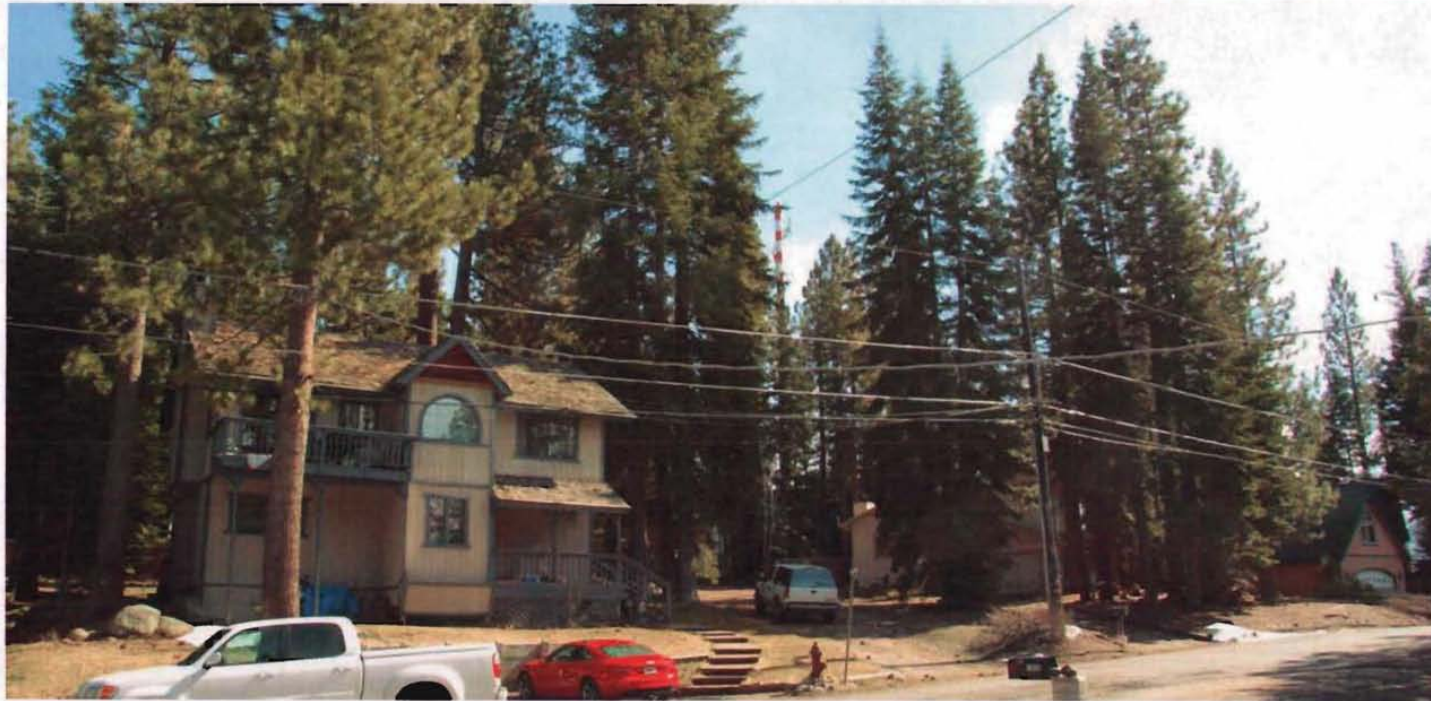
Areas of significant gaps in proposed and existing AT&T coverage are highlighted on the above map in red. Existing effective coverage from AT&T sites surrounding the area are shown in blue, and proposed coverage from new AT&T facilities in the area currently approved or in the permitting process with the California Forest Service and or El Dorado County are shown in green.

The gaps in coverage that exist are comprised of areas where coverage is either absent, or subject to significant congestion during peak usage hours. Congestion of service results in a lack of voice and data coverage where a users phone appears to be receiving a signal or “bars of service” but is unable to use the service.

**Note:** Topography in the area limits the coverage of AT&T site CVU1848 in the south.

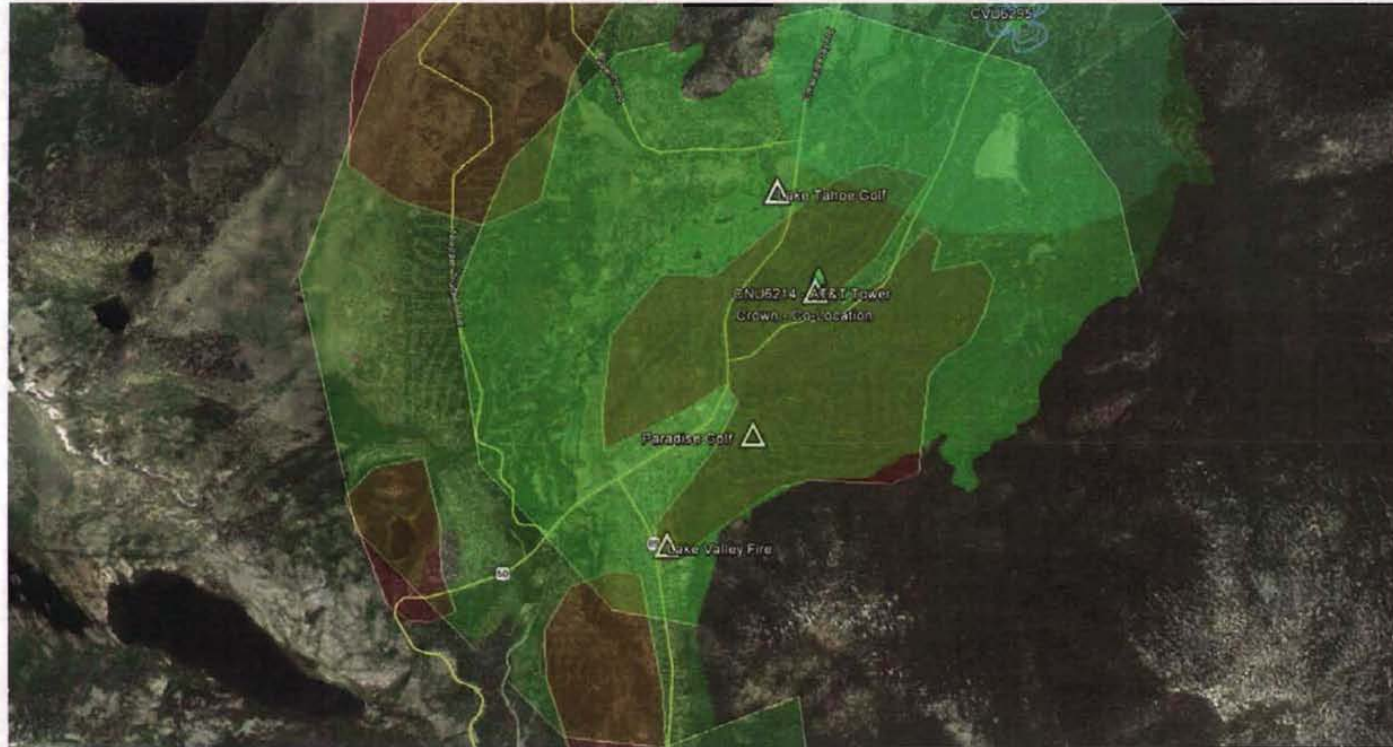


## CNU6214 – Primary Site Location



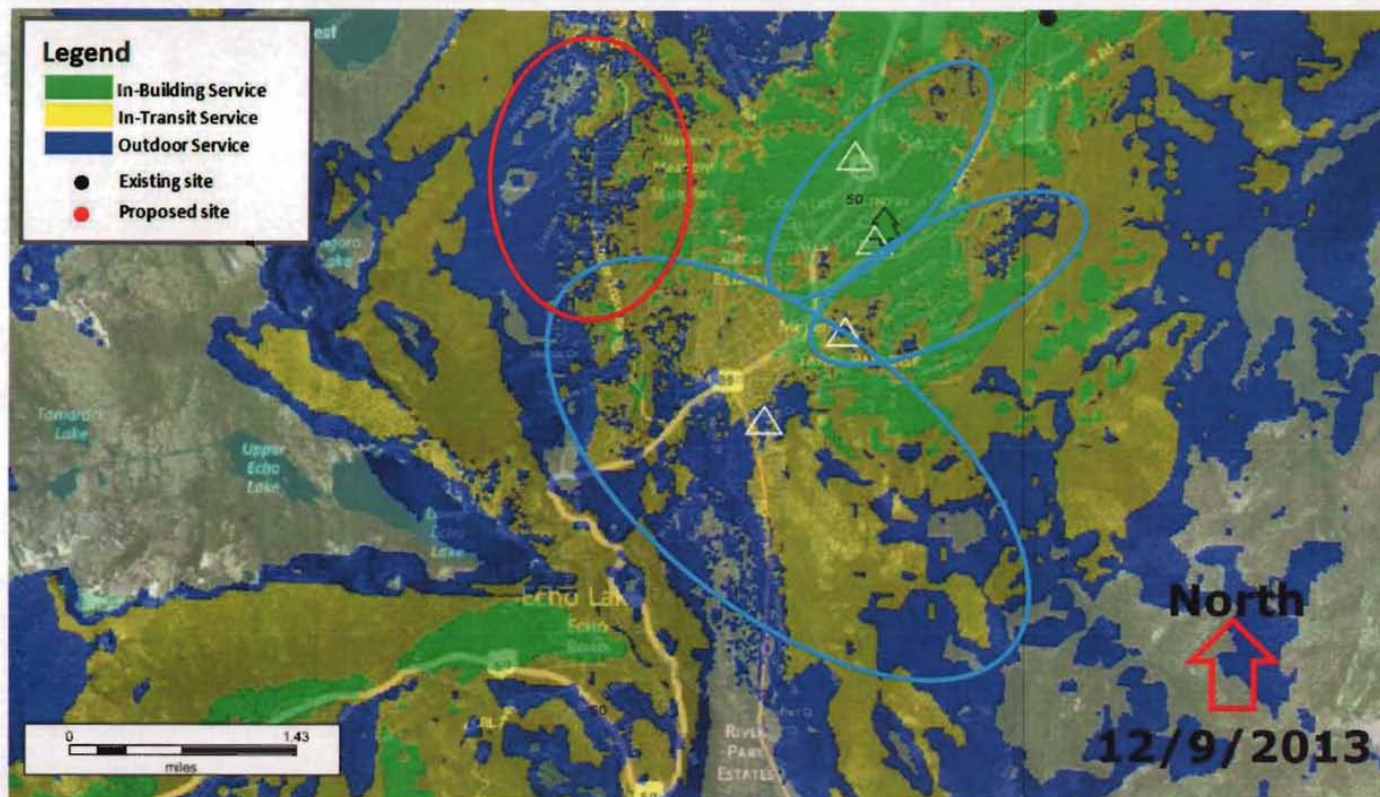
- The Primary site is located at 1697 Skyline Dr. South Lake Tahoe
- The photo above is a view taken of the front of the property.
- AT&T evaluated this site and nearby alternatives in order to evaluate whether it is the least intrusive means to close AT&T's significant service coverage gap in the area. AT&T's analysis considered the county and TRPA codes, input from county staff, planning council, and the concerns of the residents who live nearby. As a result of this analysis below, this location is the least intrusive means to fill AT&T's coverage gaps.

# CNU6214 – Primary Site Location



- The proposed 110' tower at 1697 Skyline Dr. would be located off of an existing water department access road on the rear of the parcel adjacent to and concealed by existing 100' pine trees.
- The elevation above the existing trees and surrounding topography makes this location unique in the area and well suited for wireless coverage of the immediate and surrounding community. Thus the reason for the existing wireless installations on the neighboring residential property.
- The primary coverage area is represented above with the 1.8 mile central green ring, referencing the RF coverage map below it can be confirmed that the primary coverage area fills the significant gaps in In-building, and in-transit coverage in the immediate area.
- The secondary coverage area is represented above with a 2.5 mile outer green ring, and can be confirmed to fill significant gaps in AT&T coverage in the 3 surrounding areas with no, or limited AT&T coverage.

# CNU6214 – Proposed Coverage from Primary Site Location



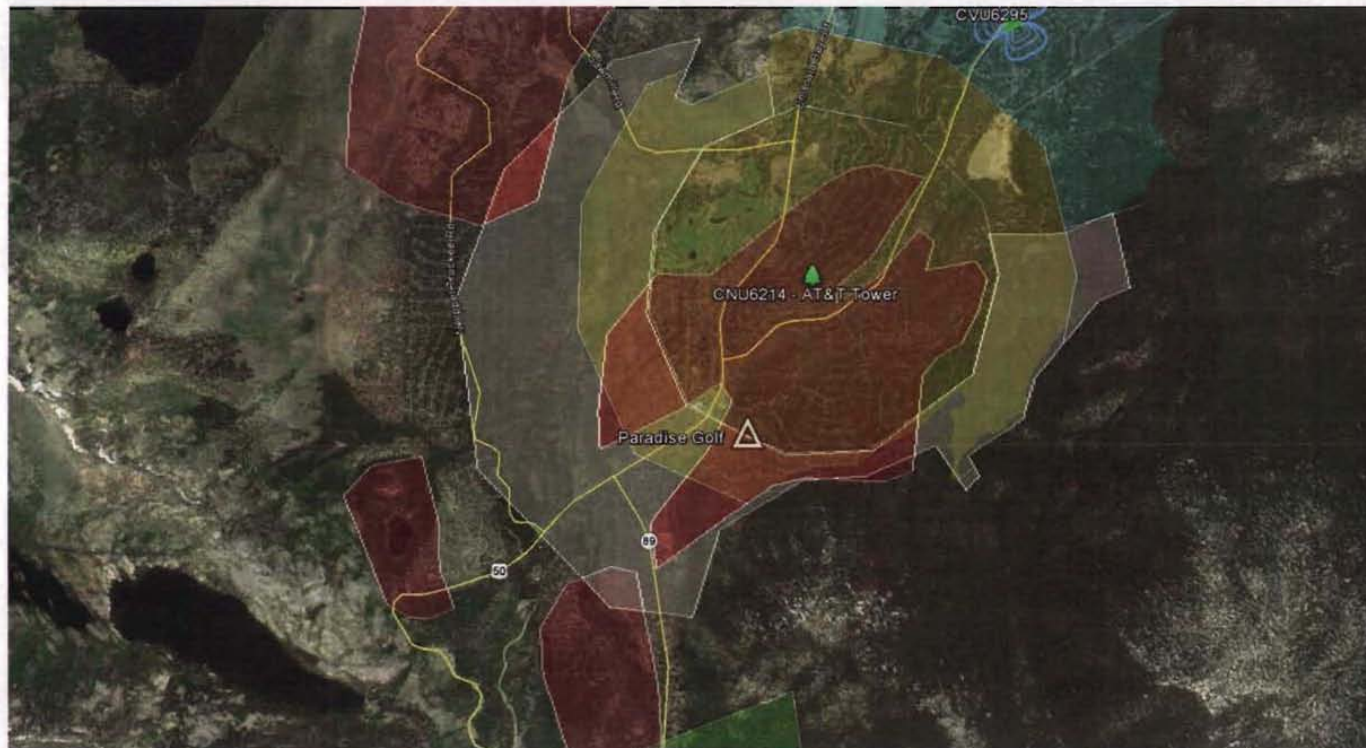
RF modeling of the proposed installation of a 110' stealth tree tower at 1697 Skyline Dr. provides a significant coverage increase in the immediate and surrounding community, including the intersections of Hwy-50 & Hwy-89, and the area in red above where a significant gap in coverage currently exists.

## Alternative 1 – Crown Co-Location Site Location



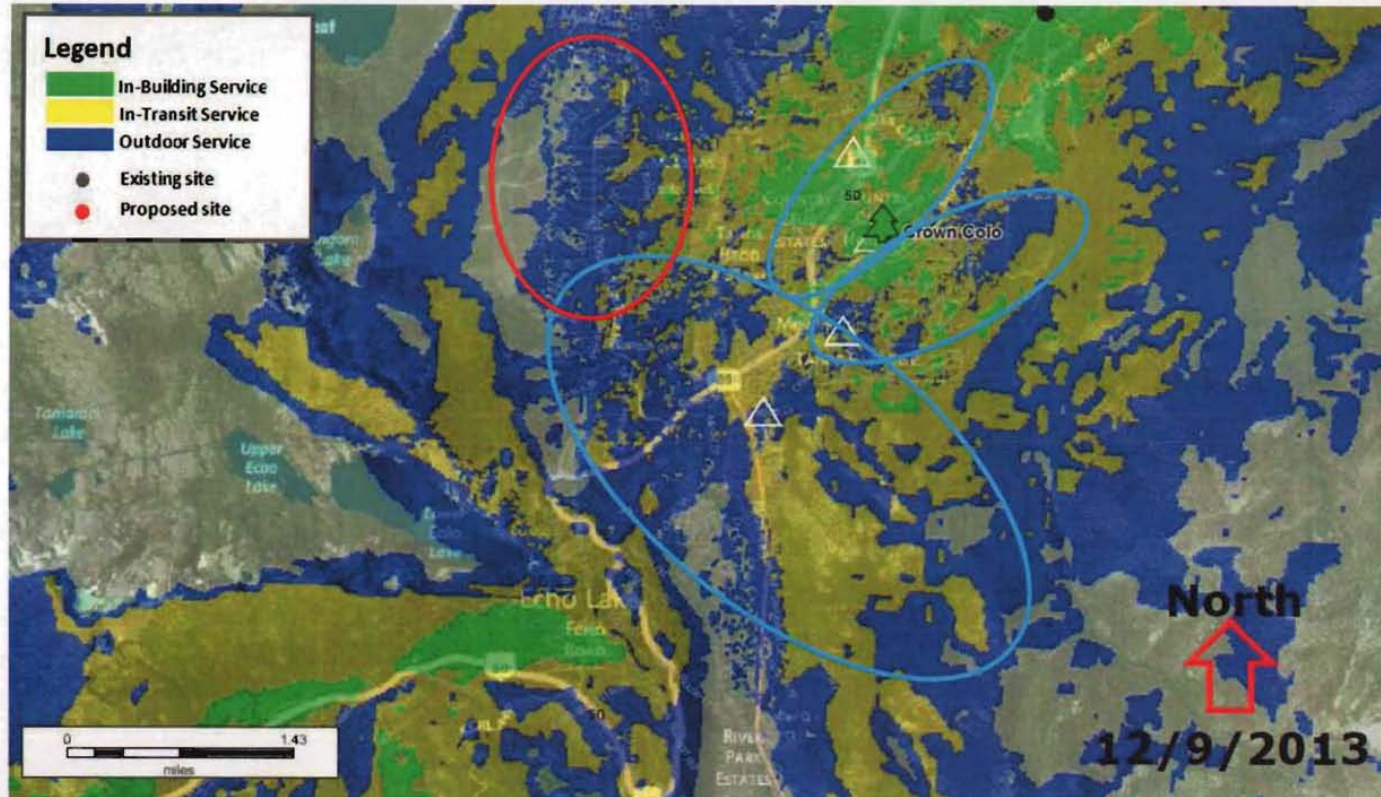
- **Alternative 1 is located at 1705 Skyline Dr. South Lake Tahoe, directly adjacent to the primary proposed location.**
- **The photo above is a view taken of the front of the property.**
- **AT&T evaluated this alternative in order to evaluate whether it is the least intrusive means to close AT&T's significant service coverage gap in the area. AT&T's analysis considered the tower owner and landlord's wishes and space availability. As a result of this analysis below, this location was determined to be incapable of filling the significant gaps in coverage that exist in the area, and structurally inviable.**

## Alternative 1 – Crown Co-Location Site Location



- The proposed co-location on the existing FAA tower at 1705 Skyline Dr. would be located off of an existing water department access road on the rear of the parcel adjacent to and concealed by existing 100' pine trees.
- The available 58' elevation is well below the existing trees which makes this location incompatible with optimal wireless coverage during winter months. Snow load in the trees reflects and obscures wireless signals which would reduce signal strength below the levels represented below. During normal operation the proximity to the trees and low elevation will limit coverage of the immediate and surrounding community.
- The primary coverage area is represented above with the 1 mile central yellow ring (due to reduction in signal propagation), and referencing the RF coverage map below, the secondary coverage area is represented above with a 1.2 mile outer yellow ring, which represents the severely diminished coverage from this elevation and location.
- The gray ring represents the overall reduction in primary coverage between the proposed AT&T facility and this alternative.

## Alternative 1 – Crown Co-Location Site Location



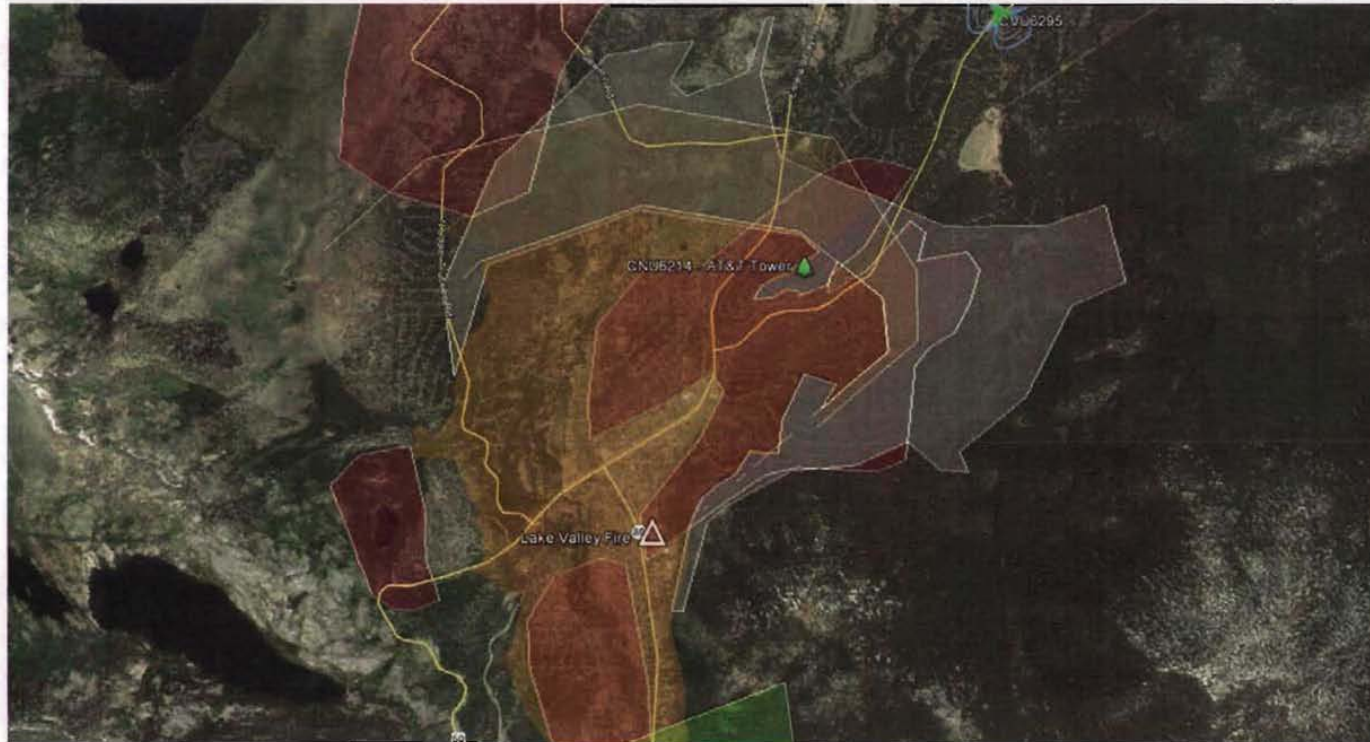
RF modeling of the proposed installation of antennas at 65' on an existing Crown Castle owned tower at 1705 Skyline Dr. provides a coverage increase in the immediate area, but none in the surrounding community or at the intersections of Hwy-50 & Hwy-89, and the area in red above where a significant gap in coverage currently exists.

## Alternative 2 — Lake Valley Fire District Location



- **Alternative 2 is located at the end of Keetak St. in South Lake Tahoe, at the Lake Valley Fire District vehicle yard.**
- **The photo above is a view taken of the front of the property.**
- **AT&T evaluated this alternative in order to evaluate whether it is the least intrusive means to close AT&T's significant service coverage gap in the area. AT&T's analysis considered the landlord and California Forest Service's wishes and space availability. As a result of this analysis below, this location was determined to be incapable of filling the significant gaps in coverage that exist in the area due to the lower elevation at this location and the surrounding elevated topography.**

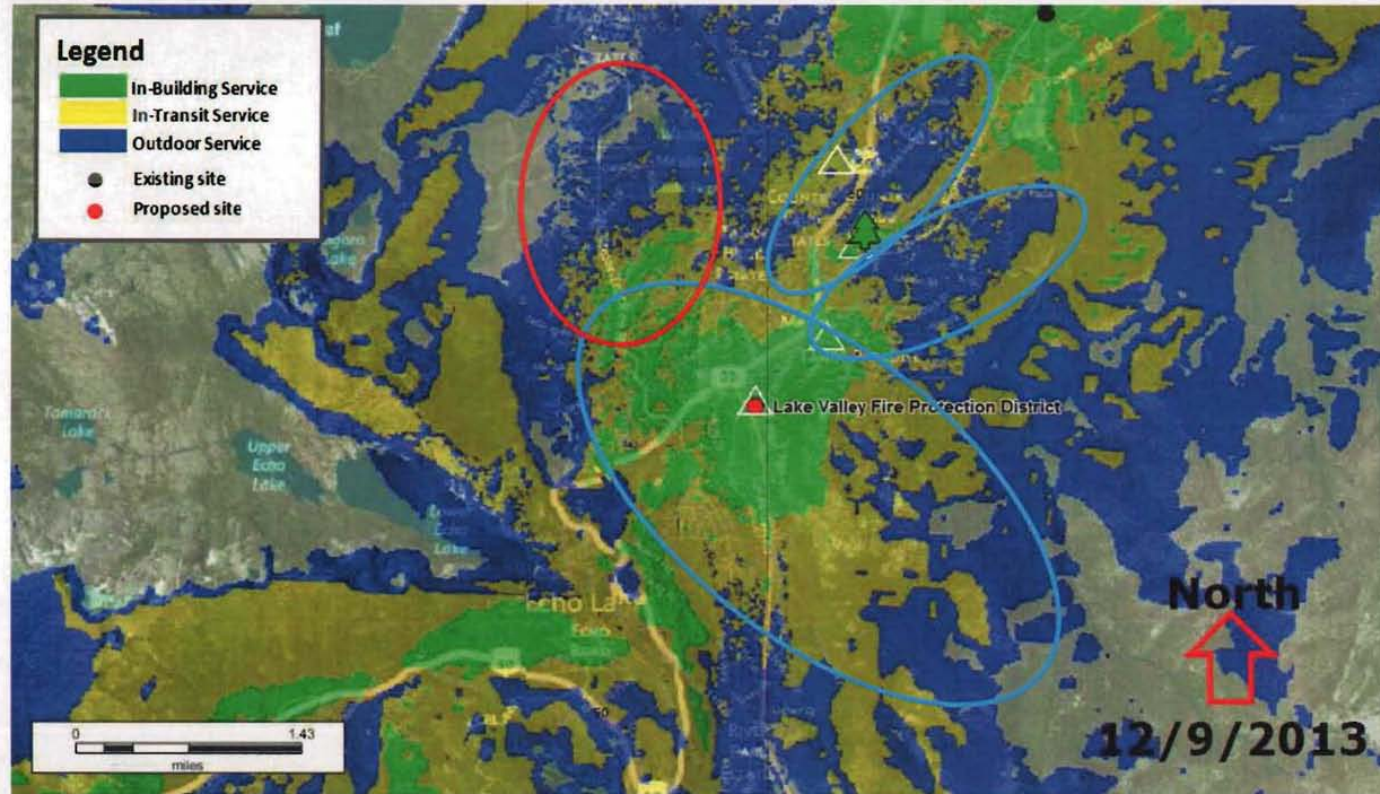
## Alternative 2 – Lake Valley Fire District Location



- The proposed 110' tower at the Lake Valley Fire District property would be located behind existing service buildings and concealed by existing 100' pine trees.
- The available elevation above the surrounding trees allows the site to perform well and fill some portions of the gaps that exist, but the proximity to the existing mountainside makes this location incompatible with optimal wireless coverage as half the site is blocked by the nearby mountain. Low elevation at the project location also works to limit the overall coverage of the surrounding community.
- The primary coverage area is represented above with the 1.8 mile central orange ring, and referencing the RF coverage map below, the secondary coverage area is represented above with a 2.5 mile outer orange ring, which represents the severely diminished coverage from this elevation and location.
- The gray ring represents the overall reduction in primary coverage between the proposed AT&T facility and this alternative.



## Alternative 2 – Lake Valley Fire District Location



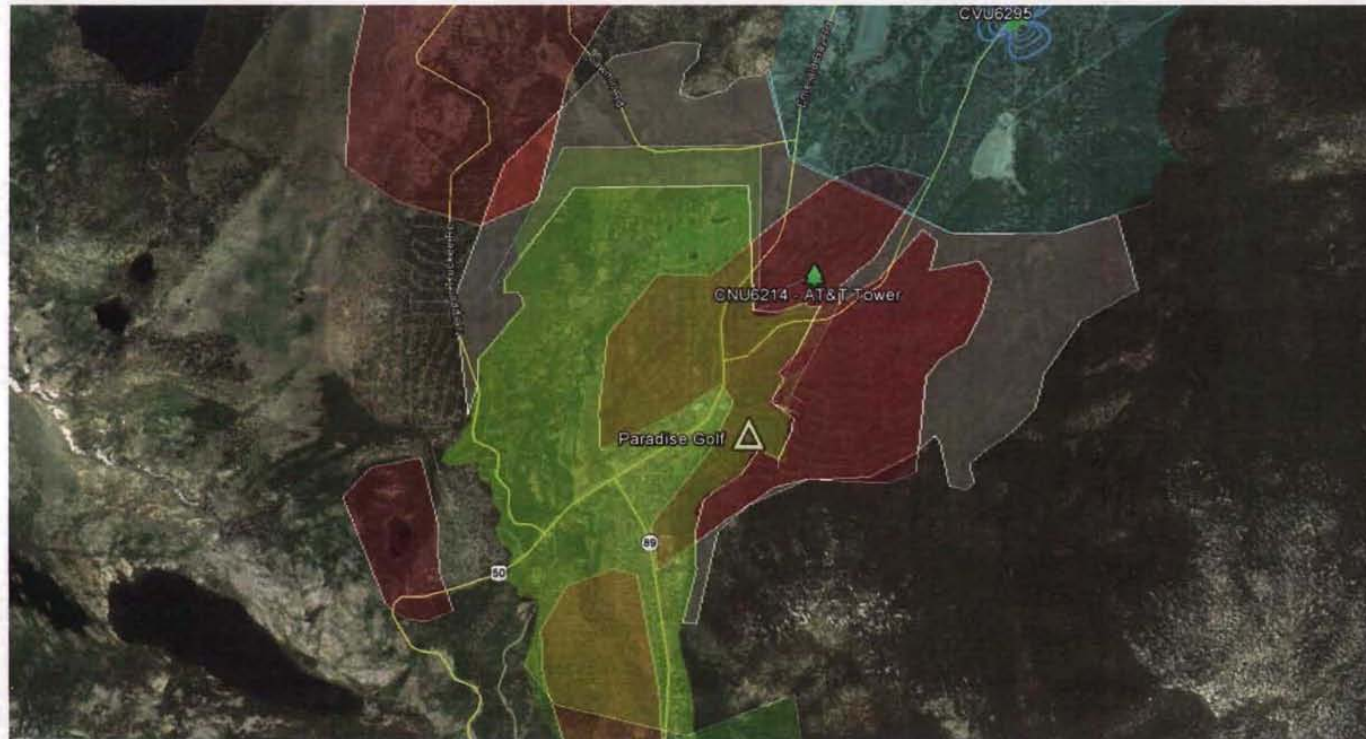
RF modeling of the proposed installation of a 110' stealth tree tower at the Lake Valley Fire District yard provides a coverage increase in the immediate area, but leaves the areas to the North and South of Skyline Blvd. with no improvement in the existing congested service, and is limited in or ineffective in increasing coverage in the surrounding community and the North and West areas In red above where a significant gap in coverage currently exists.

## Alternative 3 — Tahoe Paradise Golf



- **Alternative 3 is located at 3021 Hwy-50 in South Lake Tahoe, at the Tahoe Paradise Golf Course.**
- **The photo above is a view taken of the front of the property.**
- **AT&T evaluated this alternative in order to evaluate whether it is the least intrusive means to close AT&T's significant service coverage gap in the area. . AT&T's analysis considered the county and TRPA codes and space availability. As a result of this analysis below, this location was determined to be incapable of filling the significant gaps in coverage that exist in the area due to the lower elevation at this location and the surrounding elevated topography.**

## Alternative 3 — Tahoe Paradise Golf



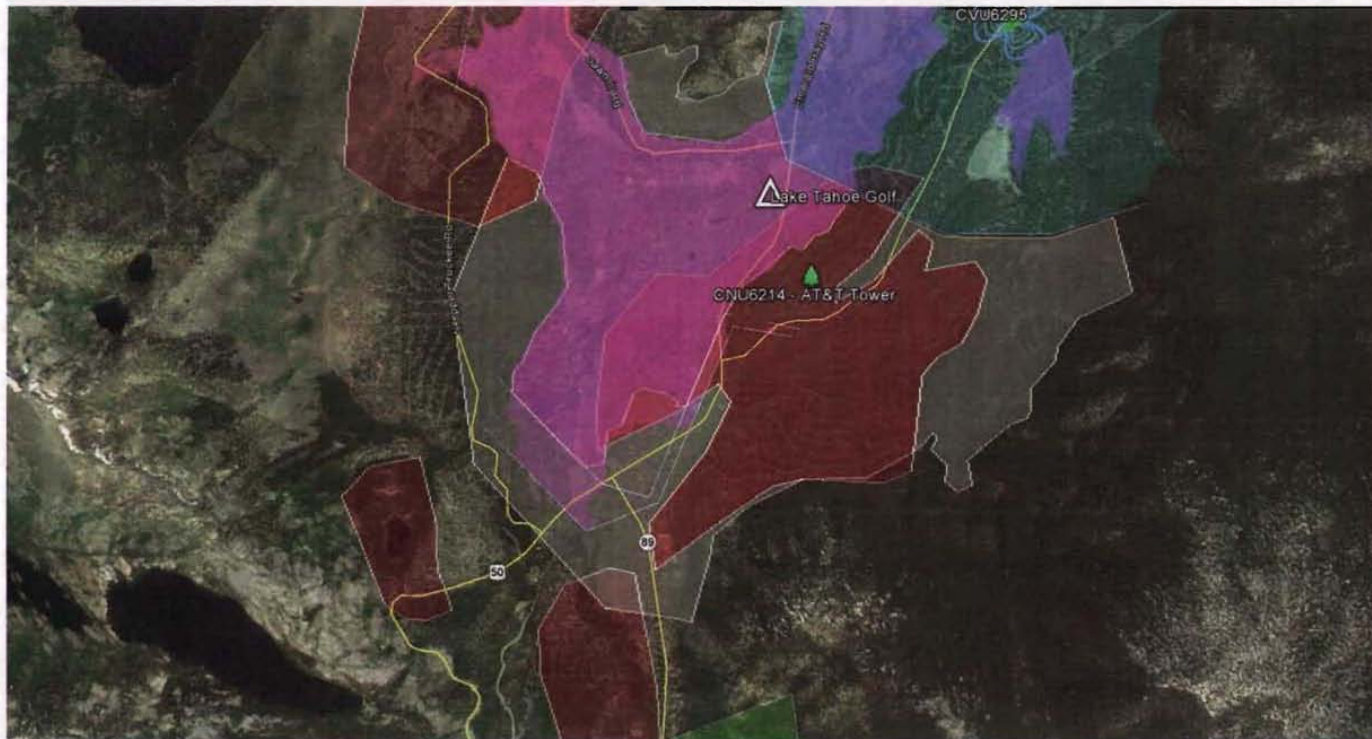
- The proposed 110' tower at the Tahoe Paradise golf course would be located behind existing service buildings and concealed by existing 100' pine trees.
- The available elevation above the surrounding trees allows the site to perform well and fill some portions of the gaps that exist, but the proximity to the existing mountainside makes this location incompatible with optimal wireless coverage as half the site is blocked by the nearby mountain. low elevation at the project location also works to limit the overall coverage of the surrounding community.
- The primary coverage area is represented above with the 1.8 mile central yellow ring, and referencing the RF coverage map below, the secondary coverage area is represented above with a 2.5 mile outer yellow ring, which represents the severely diminished coverage from this elevation and location.
- The gray ring represents the overall reduction in primary coverage between the proposed AT&T facility and this alternative.

## Alternative 4 — Lake Tahoe Golf



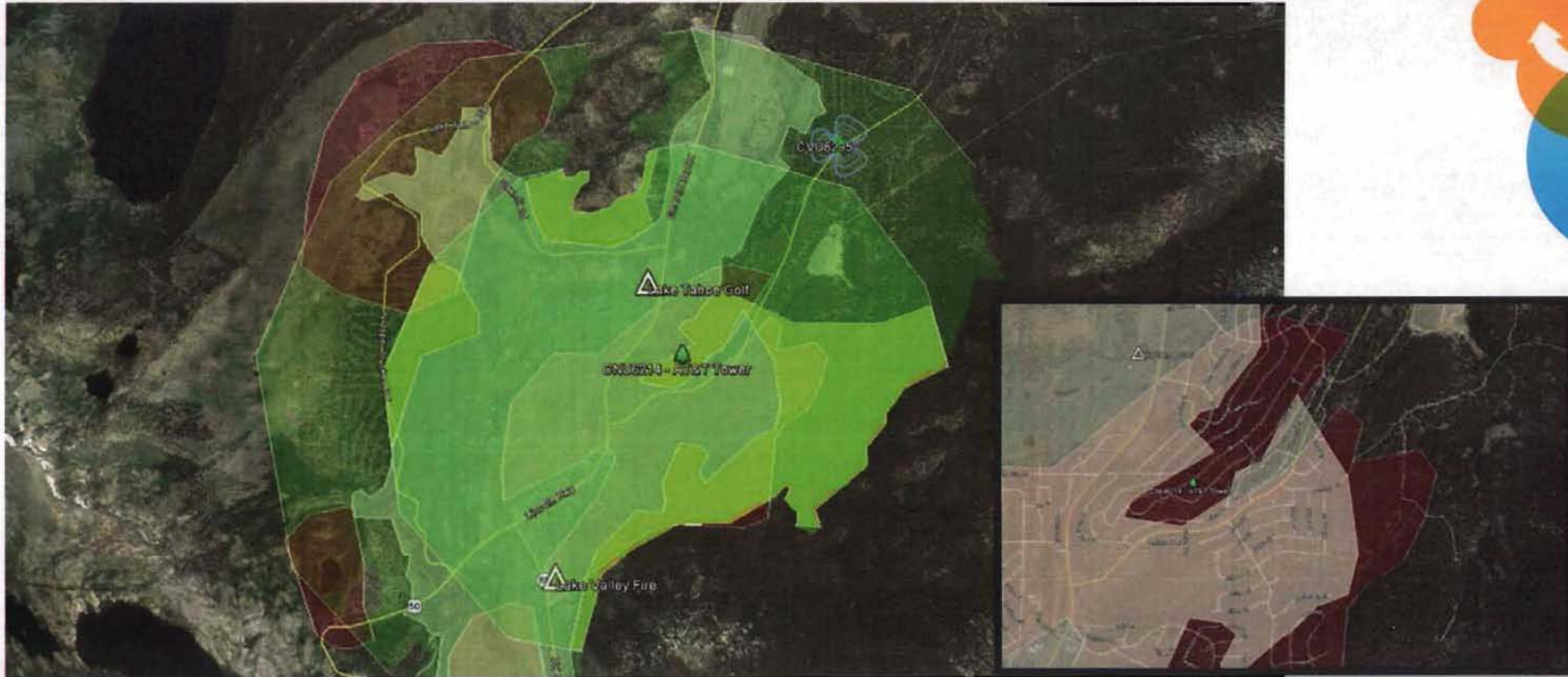
- **Alternative 3 is located at 3021 Hwy-50 in South Lake Tahoe, at the Tahoe Paradise Golf Course.**
- **The photo above is a view taken of the front of the property.**
- **AT&T evaluated this alternative in order to evaluate whether it is the least intrusive means to close AT&T's significant service coverage gap in the area. . AT&T's analysis considered the county and TRPA codes and space availability. As a result of this analysis below, this location was determined to be incapable of filling the significant gaps in coverage that exist in the area due to the lower elevation at this location and the surrounding elevated topography.**

## Alternative 4 — Lake Tahoe Golf



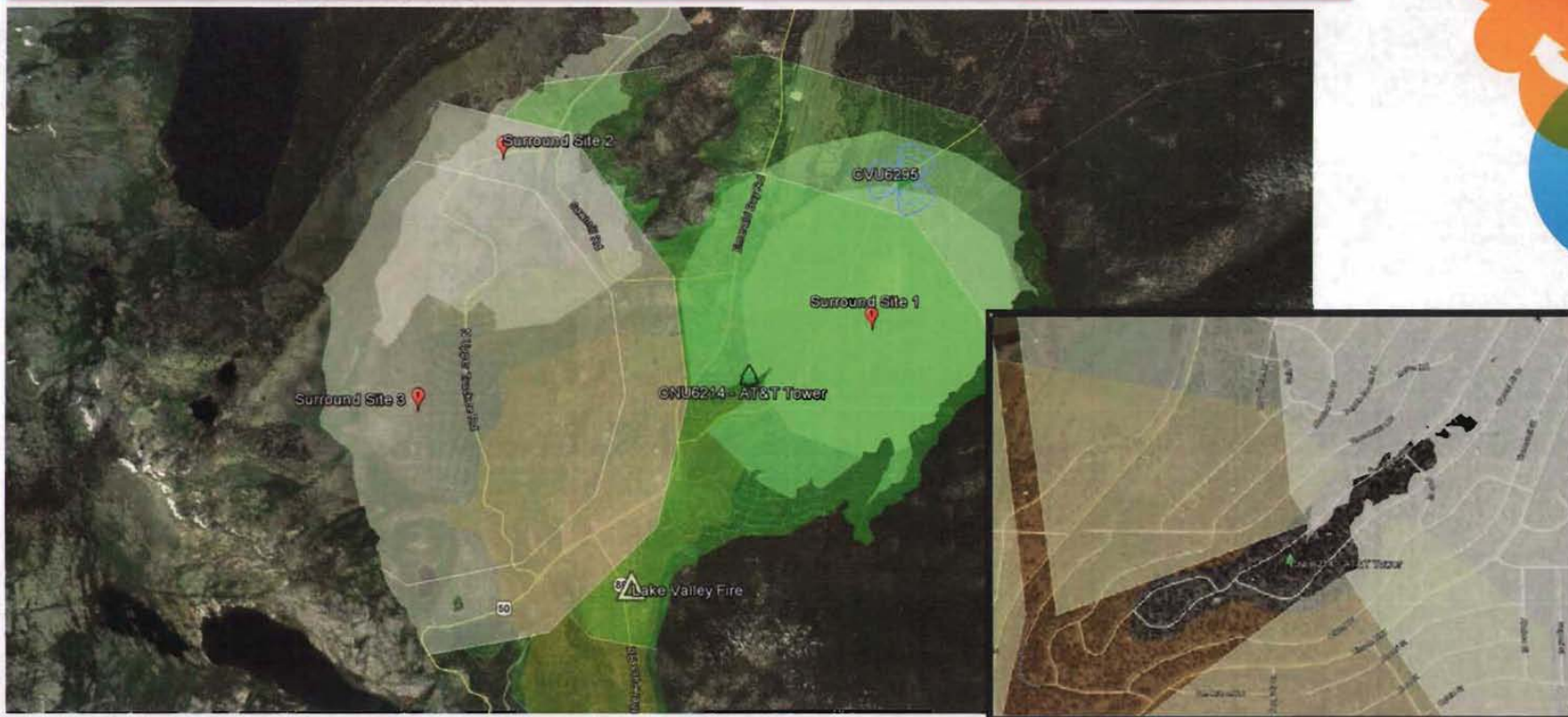
- The proposed 110' tower at the Lake Tahoe golf course would be located behind existing service buildings and concealed by existing 100' pine trees.
- The available elevation above the surrounding trees allows the site to perform well and fill some portions of the gaps that exist, but the low elevation in the valley makes this location incompatible with optimal wireless coverage as the site coverage is constrained by the surrounding mountains which works to limit the overall coverage of the surrounding community.
- The primary coverage area is represented above with the 1.8 mile central violet ring, and referencing the RF coverage map below, the secondary coverage area is represented above with a 2.0 mile outer violet ring, which represents the severely diminished coverage from this elevation and location.
- The gray ring represents the overall reduction in primary coverage between the proposed AT&T facility and this alternative.

## Multi Site Alternative 1 — 70% Coverage Match



- As requested by the Planning Department of El Dorado County, AT&T has reviewed alternatives to a single new tower at Skyline Dr., and has created a coverage map showing (2) alternative locations, The first at Lake Valley Fire (Alt site 2), the second at Lake Tahoe Golf (Alt site 4). With our best approximation of available build locations and elevations at these locations, we were able to emulate the coverage they would provide (white) overlaid on the primary (inner green ring) and secondary (outer green ring) coverage provided by the proposed tower at Skyline Dr.
- The (2) proposed towers provide only 60% coverage within the primary coverage area of the proposed tower at Skyline Dr., with gaps in the coverage shown in yellow. Further gaps in coverage extend into the secondary coverage capacity of the proposed tower at Skyline Dr. and would further reduce the performance of these (2) alternative locations below 50%.
- Referencing the inset photo on the right, the unique topography of the Skyline Dr. property provides little to no coverage to the Skyline property from these (2) alternative locations. Moving any of the towers from the locations provided decreases the overall coverage dramatically.

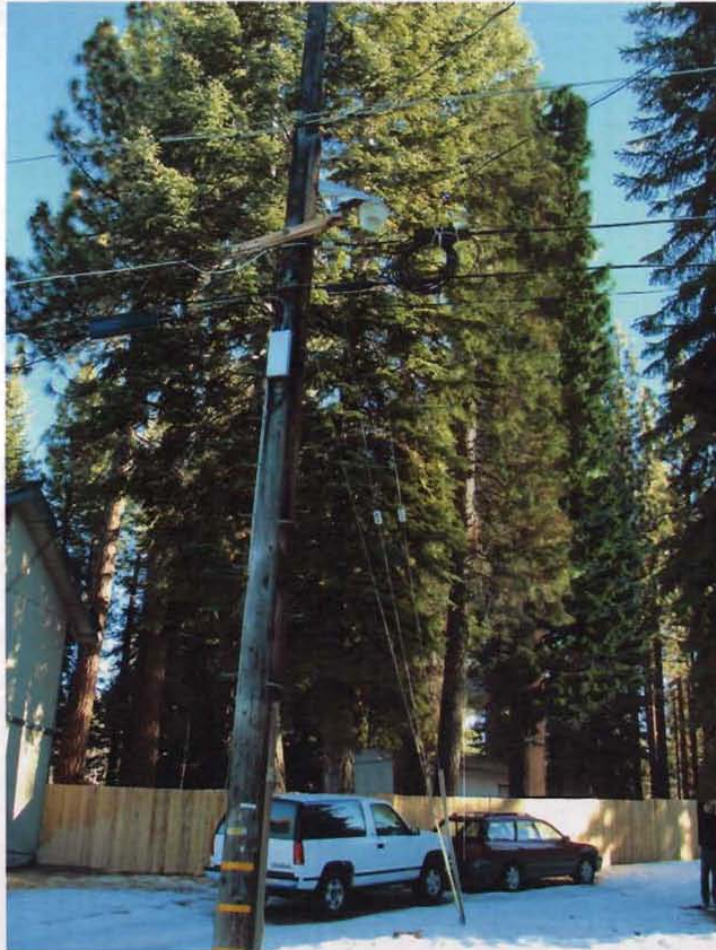
## Multi Site Alternative 2 — 80% Coverage Match



- In order to match the gap coverage offered by the proposed AT&T tower at Skyline Dr., AT&T would require (4) New towers in the surrounding community. With our best approximation of available build locations and elevations in the surrounding community (red pins), and were able to emulate the coverage they would provide (white) overlaid on the coverage provided by the proposed tower at Skyline Dr. (green).
- The (4) proposed towers would ideally be located at Lake Valley Fire (Alt Site 2), US Forest Land off of Fountain Place Rd., another US Forest Service Property at the end of Winton Dr., and Lake Valley Fire Station #5 on Boulder Mountain Ct.
- These (4) proposed towers would supply 80% of the coverage that would be otherwise be supplied by the single AT&T tower on Skyline Dr., This is 20% less coverage, with 400% more cell towers. Thus verifying the project proposed as the least intrusive means to supply coverage to the area.
- Referencing the inset photo on the right, the unique topography of the Skyline Dr. property provides little to no coverage to the Skyline property from these (4) tower locations. Moving any of the towers from the locations provided decreases the overall coverage dramatically.

# Conclusion

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**Based on AT&T's supplemental analysis of alternative sites, AT&T confirms that the Primary site location at 1697 Skyline Dr. South Lake Tahoe remains the least intrusive means to close AT&T's significant service coverage gap in the area.**





# Supplemental

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**CVU6293**

**Existing AT&T facility located at 2082 Eloise Ave. in South Lake Tahoe**



**CVU6295**

**Existing AT&T facility located at 1857 Hekpa Dr. in South Lake Tahoe**



# About this Statement

## RF Engineer - James Temple

I have a Bachelors of Science in Electrical and Electronic Engineering from California State University, Sacramento and I have 23 years of experience in Telecom with the last 16 years in Wireless. I received my degree in January of 1999 which can be verified with the CSUS Registrar's office.

NP&E-RAN Design & RF Engineering  
916-486-3008 Office


## RF Tools

- **ATOLL**

The ALT Sites Analysis is compiled using a wireless coverage prediction tool from Forsk called ATOLL. The tool has several GIS layers as inputs such as ground clutter data and average ground elevation height. The tool also knows about our antennas that we use for the cell sites and the transmit powers and everything in the link budget. This tool simulates what a customer will receive as a signal power. This tool is used to compare future site choices so that the optimal coverage can be attained.

- **Google Earth Pro**

A powerful GIS tool which is used to overlay the ATOLL prediction and drive test data. With this data and the topography models in this program, further analysis of data and graphic displays of coverage areas can be generated for reference.

Experience	
<b>RF Design Engineer</b> AT&T September 2011 – Present (3 years 6 months)   Sacramento, California	
<b>System Performance / Traffic Engineer</b> Verizon Wireless May 2009 – September 2011 (2 years 5 months)	
<b>Sr. RF Engineer</b> SureWest Communications March 2005 – May 2009 (4 years 3 months)	
<b>Sr. RF Engineer</b> SureWest 1999 – 2009 (10 years)	
<b>Traffic Engineer</b> SureWest Communications 1999 – 2008 (9 years)	