

## Mail PO Box 5310 Stateline, NV 89449-5310

## Location 128 Market Street Stateline, NV 89449

Contact

Phone: 775-588-4547 Fax: 775-588-4527 www.trpa.gov

## STAFF REPORT

Date: September 7, 2023

To: TRPA Hearings Officer

From: Bridget K. Cornell, Associate Planner

Subject: Four Seasons Estates (Granlibakken) / AT&T Telecommunications Facility

725 Granlibakken Road, Tahoe City, Placer County, California

Assessor's Parcel Numbers (APNs): 095-510-049, 095-510-002 & 095-510-003

TRPA File No.: ERSP2021-1636

## **Proposed Action:**

Hearings Officer action on the proposed project and related findings based on this staff summary and the draft permit (Attachment A).

## Staff Recommendation:

Staff recommends the Hearings Officer make the required findings and approve the project subject to the special conditions in the draft permit.

## Project Description:

The proposed project involves the construction of a new telecommunications facility on the Four Seasons Estates (aka Granlibakken Tahoe) property. The proposed improvements include the construction of four cellular panel-antennas mounted on the roof of two existing structures on the Granlibakken Tahoe resort property. The antennas will be mounted on the structures known as the "Deerwander building," the "Bearpaw Building." Three antennas will be installed on the Deerwander Building, and one antenna will be installed on the Bearpaw Building. The Main Lodge building will house the associated equipment. No exterior changes are proposed for the Main Lodge building. No increase in the overall building height is proposed. Associated equipment will be housed within an existing utility/IT room.

The three parcels affected by this project have been issued Best Management Practices Certificates (095-510-049: Certificate #9354, November 30, 2007; 095-510-002: Certificate #9308, November 30, 2007; and 095-510-03: Certificate #9309, November 30, 2007). BMPs will be adjusted as necessary to accommodate the project, and maintenance of existing BMPs will be required.

Cellular signal maps indicate the proposed antennas will allow cellular providers to fill in cellular phone coverage gaps in the area.

## **Site Description:**

The antennas are proposed on the rooftops of existing structures within the Granlibakken Tahoe resort. The structures affected by this project are the "Deerwander Building," the "Bearpaw Building" and the "Main Lodge" building. No changes to height for any of the structures are proposed with this project. Land capability had not been verified for this property. All proposed changes are on the rooftop, and within the existing structures. No changes to land coverage are proposed.

The Granlibakken Tahoe resort is 74-acre property, comprised of a mix of tourist accommodation, recreation, and commercial facilities. The resort area is surrounded to the north, west and south by conservation areas, and to the east by residential development. The nearest residential development is approximately 800 feet from the closest proposed antenna.

## Issues:

The proposed project involves a special use determination and therefore requires Hearings Officer review in accordance with Chapter 2, Subsection 2.2.2.a of the TRPA Code. All other issues are discussed in the following staff analysis:

## Staff Analysis:

- A. <u>Environmental Documentation:</u> TRPA staff completed the Initial Environmental Checklist (IEC) and "Project Review Conformance Checklist and Article V(g) Findings" in accordance with Chapter 4, Subsection 4.3 of the TRPA Code of Ordinances. All responses contained on said checklists indicate compliance with the environmental threshold carrying capacities and TRPA staff recommends the Hearings Officer make a Finding of No Significant Effect. A copy of the completed checklists will be made available at the Hearings Officer hearing and at TRPA.
- B. <u>Plan Area:</u> The project is located within the Placer County Tahoe Basin Area Plan, Granlibakken Subdistrict, where transmission and receiving facilities require a "Conditional Use Permit (CUP), which is processed as a Special Use by the Taheo Regional Planning Agency.
- C. <u>Land Coverage</u>: The project will not result in any changes to land coverage. The affected parcels have combined 21,114 square feet of excess land coverage, which will be mitigated pursuant to the Excess Land Coverage Mitigation Program (TRPA Code of Ordinances Section 30.6).
- D. <u>Height</u>: The proposed antennas will be installed along the side of the roof and will only extend above the roof ridge by a few inches. The additional height has been evaluated as a "structure other than building," and can be permitted pursuant to Section 37.6.2 of the TRPA Code of Ordinances, subject to the Chapter 37 height findings below. The antennas will not make the existing structure more nonconforming.
- E. <u>Location</u>: The proposed antennas are intended to provide additional service coverage to the Granlibakken Tahoe Resort area. The geographic characteristics of the development isolate it from better coverage in the surrounding area. Unlike a large scale, macro project, where a single facility needs to cover a large area, the goal for a small wireless facility is extremely localized. The goal for this project is to cover Granlibakken Tahoe Resort. All buildings within the resort were investigated by an AT&T RF engineer. The proposed configuration is the best way to cover the resort given the large number of trees, the terrain, and the low heigh of other buildings on the property. The only other feasible alternative that would serve a similar purpose would be a much larger, more visible freestanding facility, which would create more ground disturbance. The proposed facility at the proposed location is the least intrusive means of filling the existing coverage gap.
- F. <u>Scenic Quality</u>: The proposed project is visible from within the Granlibakken Tahoe Resort ("Granlibakken," Recreation Area #17). The proposed antennas will be installed along the side of the existing roofs and will be painted to match the structures' existing earthtone colors. The scale, placement, design and colors will ensure the antennas are not visually obtrusive and blend with the surrounding environment to the greatest extent feasible. As a result, the facility will not result in an adverse impact to the applicable scenic quality threshold.

G. Radio Frequency Emissions: Congress gave the Federal Communications Commission ("FCC") "comprehensive powers" over radio communications, and the FCC has exercised "federal primacy" over the technical aspects of such communications. See Cohen v. Apple, Inc., 497 F.Supp.3d 769, 774 and 781 (N.D. Cal. 2020). Congress determined that "it is in the national interest that uniform, consistent requirements, with adequate safeguards of the public health and safety" be established, and it tasked the FCC with adopting regulations for radio frequency ("RF") emissions. Id. at 782; 47 C.F.R. §§ 1.1307(b), 1.1310, 2.1091, 2.1093. While Congress preserved traditional state and local zoning authority, it expressly prohibited states, or instrumentalities thereof, from regulating RF emissions based on health or environmental impacts:

No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions.

47 U.S.C. § 332(c)(7)(B)(iv). "Environmental effects" as used in this section includes both impacts on human health and the wider environment, including plants and wildlife. *See T-Mobile Northeast, LLC v. Town of Ramapo*, 701 F. Supp. 2d 446, 460 (S.D.N.Y. 2009) (includes human health concerns); *Jaeger v. Cellco Partnership*, 2010 WL 965730, \* 10 (D. Conn. 2010) ("The plain meaning of the term 'environmental effects' incorporates adverse effects on all biological organisms").

Thus, the proposed AT&T antennas are required to comply with the FCC limits on RF emissions, and any attempt under state law to impose other limits on RF emissions is preempted. This preemption applies to other federal and state claims as well. For example, the Federal District Court in the Northern District of California recently rejected claims that RF emissions violated the Americans with Disabilities Act, Federal Fair Housing Act, California Fair Employment and Housing Act, and associated tort claims, finding that the Telecommunications Act (TCA) and the FCC's regulations preempted a city's ability to regulate radio frequency emissions. *Wolf v. City of Millbrae*, 2021 WL 3727072 (N.D. Cal. Aug. 23, 2021).

As to TRPA, having been created by an interstate compact is a creature of federal law, the application of the TCA to its permitting process is not a matter of preemption. Rather, one must reconcile the intent of Congress in passing both the TCA and the Compact and give meaning to both statutes should there be any conflict in implementation. In furtherance of that standard, the agency position to date is this: TRPA will defer to the FCC regulations over general issues of human health and environmental impacts. However, TRPA could choose to regulate RF in the region should cellular facilities be proven to have a particular adverse effect on the unique environment of the Tahoe Region. TRPA has not received any such proof of adverse impacts of RF particular to Tahoe and therefore will not reexamine the determinations of the FCC.

## **Required Findings:**

The following is a list of the required findings as set forth in Chapters 4, 21, 37 and 50 of the TRPA Code of Ordinances. Following each finding, agency staff has summarized the evidence on which the finding can be made.

## Chapter 4 – Required Findings:

(a) The project is consistent with and will not adversely affect implementation of the Regional Plan, including all applicable Goals and Policies, Plan Area Statements and maps, the Code and other TRPA plans and programs.

The project is located within the Granlibakken Subdistrict of the Placer County Tahoe Basin Area Plan, where transmission and receiving facilities require a "Conditional Use Permit (CUP)," which is processed as a Special Use by TRPA. Policy PS-1.1 of the Regional Plan supports the upgrade and expansion of public service facilities consistent with the Land Use Element of the Regional Plan. There is no evidence showing the proposed project will have an adverse effect on the Land Use, Transportation, Conservation, Recreation, Scenic Quality, Public Service and Facilities, or Implementation sub-elements of the Regional Plan. The project, as conditioned, will not adversely affect the implementation of any applicable elements of the Regional Plan. The project is consistent with the Public Service and Facility Policies of the Placer County Tahoe Basin Area plan.

(b) The project will not cause the environmental threshold carrying capacities to be exceeded.

TRPA staff has completed the "Article V(g) Findings" in accordance with Section 4.4.2 of the TRPA Code of Ordinances and incorporates the checklist into this analysis. All responses contained in the project findings indicate compliance with the environmental threshold carrying capacities. In addition, the applicant has completed an IEC, which is hereby incorporated into this analysis. Staff has concluded that the project will not have a significant effect on the environment. A copy of the completed checklist and IEC will be made available on the TRPA website, and through the Parcel Tracker.

(c) Wherever federal, state, or local air and water quality standards applicable for the Region, whichever are strictest, must be attained and maintained pursuant to Article V(g) of the TPRA Compact, the project meets or exceeds such standards.

The project, as conditioned, will not have an adverse impact on applicable air and water quality standards for the Region. The project includes maintenance of the existing water quality best management practices and will not result in the generation of additional daily vehicle trip ends.

## 2. <u>Chapter 21 – Special Use Findings:</u>

(a) The project, to which the use pertains, is of such a nature, scale, density, intensity and type to be an appropriate use for the parcel on which, and surrounding area in which, it will be located.

The nature of the proposed project is consistent with the public service uses permissible within the Area Plan and will provide an important site for wireless technology providers to improve service in the area. The proposed antennas will be mounted along existing roofs and will be painted to match the earthtone colors of the existing structures.

(b) The project to which the use pertains, will not be injurious or disturbing to the health, safety, enjoyment of property, or general welfare of persons or property in the neighborhood, or general welfare of the region, and the applicant has taken reasonable steps to protect against any such injury and to protect the

<u>land</u>, <u>water</u>, <u>and air resources of both</u> <u>the applicant's property and that of</u> surrounding property owners.

The antennas will not contain lights or generate noise that could be visible or heard outside the immediate vicinity of the facility. The equipment will be housed within existing utility rooms.

At ground/street level, the proposed project will generate a power density that is approximately 0.35 percent of the Federal Communication Commissions (FCC's) general public limit.

Visual simulations were prepared for the project which demonstrate the telecommunication facilities will be partially visible within the Granlibakken Tahoe Resort. The antennas will be painted to match the existing earthone colors of the existing structures. The project will provide important wireless communication service in emergencies to protect public health, safety, and welfare.

The antennas will help improve public safety by increasing cellular reception for first responders in the area.

(c) The project, to which the use pertains, will not change the character of the neighborhood or detrimentally affect or alter the purpose of the applicable planning area statement, community plan and specific or master plan, as the case may be.

The communication facility will improve wireless service in the area and will not change the character of the neighborhood. The proposed design will blend with the existing structures. The project is located within Granlibakken Subdistrict of the Placer County Tahoe Basin Area plan, where transmission and receiving facilities require a "Conditional Use Permit (CUP), which are processed by TRPA as a special use. Policy PS-1.1 of the Regional Plan supports the upgrade and expansion of public service facilities consistent with the Land Use Element of the Regional Plan.

## 3. <u>Chapter 37 - Additional Height Findings:</u>

(a) The function of the structure requires greater maximum height than otherwise provided for in this chapter.

The proposed antennas will be located on the rooftop of two existing structures within the Granlibakken Tahoe Resort. Antennas require unobstructed locations to ensure they will be functional. The height and location of the proposed antennas ensure they will be functional.

(b) The additional height is the minimum necessary to feasibly implement the project and there are no feasible alternatives requiring less additional height.

The height of the proposed antennas is the minimum necessary to enable proper function of the antennae by allowing the signals to be transmitted and received over the tops of surrounding structures and tree canopy, providing for adequate cellular service.

## 4. <u>Chapter 50 – Additional Public Service Facility Findings:</u>

(a) There is a need for the project.

Cellular coverage maps show service gaps in the area and existing facilities are not meeting service needs associated with increased wireless data needs. This project will provide additional facilities to meet service needs in the area. The additional facilities will provide improved wireless communication service in emergencies to help protect public health, safety, and welfare.

(b) The project with the Goals and Policies, applicable plan area statements, and Code.

See rationale in Chapter 4 findings, above.

(c) The project is consistent with the TRPA Environmental Improvement Program.

The project will not affect implementation of the EIP and will not cause TRPA's environmental thresholds to be exceeded. The design of the proposed project will blend with the existing building, which will ensure there are no significant impacts to applicable scenic resource thresholds.

(d) The project meets the findings adopted pursuant to Article V (g) of the Compact as set forth in Chapter 4: Required Findings, as they are applicable to the project's service capacity.

The project's service capacity is shown on wireless propagation maps submitted with the application and shows the areas to be served by the project.

Required Actions: Staff recommends that the Hearings Officer take the following actions:

- I. Approve the findings contained in this staff summary, and a finding of no significant environmental effect.
- II. Approve the project, based on the staff summary, and record evidence, subject to the conditions contained in the attached Draft TRPA Permit (Attachment A).

<u>Contact Information:</u> For questions regarding this project please contact Bridget Cornell, TRPA Permitting & Compliance Department, by telephone at (775) 589-5218 or via email to <a href="mailto:bcornell@trpa.gov">bcornell@trpa.gov</a>.

## Attachments:

- A. Draft Permit
- B. Project Plans and Scenic Simulations

# Attachment A Draft Permit

# Draft CONDITIONAL PERMIT

## APN 095-510-049, 095-510-002 & 095-510-003 FILE NO. ERSP2021-1636

D = : -I

D = = = ! = + N =

C.... C.... NAILIER C. (4). A......

TRPA Executive Director/Designee		Da	te	
as of this date and is eligible for a c	ounty building pe	ermit:		
TRPA ACKNOWLEDGEMENT: The p			ore-construction condition	ns of approval
Required plans determined to be in	conformance w	ith approval: D	ate:	
<ul><li>(1) See Special Condition 3.C.,</li><li>(2) See Special Condition 3.D.,</li></ul>	below.			
Notes:				
Security Administrative Fee (2):	Amount \$	Paid	Receipt No	
Security Posted (2): Amount <u>\$ 5,00</u>	0.00 Type:	Paid	Receipt No	
Excess Coverage Mitigation Fee (1):	<u> </u>			

## SPECIAL CONDITIONS

1. This project authorizes the construction of a small wireless telecommunications facility affecting three parcels at the Granlibakken Tahoe resort. The affected parcels include APN 095-510-049 ("Deerwander Building"), APN 095-510-003 ("Bearpaw Building"), and APN 095-510-002 ("Main Lodge"). The project will consist of four small, roof-mounted antennas affixed to existing rooftops within the resort compound. No exterior changes are proposed for the Main Lodge building. All antennas will be mounted on the side edge of the roofs, painted to blend with the structures' existing earthtone colors. Supporting equipment will be placed indoors within existing utility/IT rooms. All utilities will be run within existing conduits. No changes to land coverage or ground disturbance are proposed with this project. No trees are proposed for removal.

The three parcels affected by this project have been issued Best Management Practices Certificates (095-510-049: Certificate #9354, November 30, 2007; 095-510-002: Certificate #9308, November 30, 2007; and 095-510-03: Certificate #9309, November 30, 2007). BMPs will be adjusted as necessary to accommodate the project, and maintenance of existing BMPs will be required (see Special Condition 4, below).

Land Capability has not been verified for this property. Existing land coverage has been verified for the entire development (TRPA File #20020843STD). No changes to land coverage are proposed as a part of this project. Approval of this project does not verify land capability. Any future changes to land coverage will require the verification of land capability.

- 2. The Standard Conditions of Approval listed in Attachment Q shall apply to this permit.
- 3. Prior to permit acknowledgement, the following conditions of approval must be satisfied.

- A. Please provide an overall site plan of the entire Granlibakken development, identifying the three parcels affected by this project.
- B. Page A1 (Overall Site Plan):
  - (1) Please include a land coverage table, summarizing the amount of existing land coverage on the property, and identifying the size of the affected parcels.
  - (2) Please include a note stating that the land capability will not be verified as a part of this project. No changes to land coverage are permitted with this project.
  - (3) Please identify a construction staging area with appropriate temporary Best Management Practices (BMPs).
- C. Pages A4.1 through A5.2 (Elevations):
  - (1) Please show roof pitches of each roof plane for each affected structure.
  - (2) Identify the slope across each building site.
  - (3) Please show the allowed and proposed height calculation for each structure. Note: additional height resulting from the antennas will not be considered additional height for the structure.
  - (4) Please correctly label the structure's existing and proposed height. The height of a structure is measured to the highest point of the roof. Appurtenances that meet the criteria of TRPA Code Section 37.4.3.A do not count towards a structure's height. The proposed antenna is considered a "structure other than building," and will not count towards the structure's height.
  - (5) The permittee shall submit final proposed color samples for all visible project components for approval by TRPA staff.
- D. The affected property previously has approximately 21,114 square feet of unmitigated excess land coverage. The permittee shall mitigate a portion or all of the excess land coverage on this property by removing coverage within Hydrologic Transfer Area 8 Tahoe City, or by submitting an excess coverage mitigation fee.

To calculate the amount of excess coverage to be removed, use the following formula:

Estimated project construction cost multiplied by the fee percentage of 3.00% (as identified in Table 30.6.1-2 of Subsection 30.6.1.C.3. of the TRPA Code of Ordinances) divided by the mitigation factor of 8. If you choose this option, please revise your final site plans and land coverage calculations to account for the permanent coverage removal.

An excess land coverage mitigation fee may be paid in lieu of permanently retiring land coverage. The excess coverage mitigation fee shall be calculated as follows:

Coverage reduction square footage (as determined by formula above) multiplied by the coverage mitigation cost fee of \$8.50 per square foot for projects within Hydrologic Transfer Area 9 – Tahoe City. If you choose this option, please provide a construction cost estimate by your licensed contractor, architect, or engineer. In no case shall the mitigation fee be less than \$200.00

- E. The Security required under Standard Condition I.2 of Attachment Q shall be \$5,000.00. Security shall be released upon completion of the project, installation of permanent BMPs and satisfaction of all permit conditions. Please see Attachment J, Security Procedures, for appropriate methods of posting the security and the applicable security administration fee.
- F. The permittee shall submit final plans to TRPA electronically, incorporating the changes outlined above.
- 4. Prior to security return, the applicant shall work with the property owner to demonstrate that existing BMPs are being maintained. This shall be documented in a BMP Maintenance Log (<a href="https://www.tahoebmp.org/Documents/BMPHandbook/Maintenance Log interactive form.pdf">https://www.tahoebmp.org/Documents/BMPHandbook/Maintenance Log interactive form.pdf</a>). TRPA staff is available to assist the property owner with this reporting requirement.
- 5. All BMP details and specifications shall be consistent with the TRPA Handbook of Best Management Practices. All BMP handbook details and information sheets can be viewed and downloaded at <a href="http://www.tahoebmp.org/BMPHandbookCh4.aspx">http://www.tahoebmp.org/BMPHandbookCh4.aspx</a>. If sub-surface infiltration facilities are proposed, it will be necessary to submit photo documentation of sub-surface infiltration systems prior to issuance of a BMP Certificate of Completion. The photographs shall clearly show that the infiltration systems have been installed as specified on TRPA approved plans.
- 6. Prior to security release photos shall be provided to TRPA taken during the construction of any subsurface BMP's or of any trenching and backfilling with gravel.
- 7. Temporary and permanent BMPs may be field fit by the Environmental Compliance Inspector where appropriate.
- 8. All Best Management Practices shall be maintained in perpetuity to ensure effectiveness which may require BMPs to be periodically reinstalled or replaced.
- 9. Existing natural features outside of the building site shall be retained and incorporated into the site design to the greatest extent feasible. The site shall be designed to avoid disturbance to rock outcrops and to minimize vegetation removal and maintain the natural slope of the project site.
- 10. TRPA reserves the right to amend any portion of this permit or construction operation while in progress if it is determined that the project construction is causing significant adverse effects.
- 11. To the maximum extent allowable by law, the Permittee agrees to indemnify, defend, and hold harmless TRPA, its Governing Board (including individual members), its Planning Commission (including individual members), its agents, and its employees (collectively, TRPA) from and against any and all suits, losses, damages, injuries, liabilities, and claims by any person (a) for any injury (including death) or damage to person or property or (b) to set aside, attack, void, modify, amend, or annul any actions of TRPA. The foregoing indemnity obligation applies, without limitation, to any and all suits, losses, damages, injuries, liabilities, and claims by any person from any cause whatsoever arising out of or in connection with either directly or indirectly, and in whole or in part

(1) the processing, conditioning, issuance, administrative appeal, or implementation of this permit; (2) any failure to comply with all applicable laws and regulations; or (3) the design, installation, or operation of any improvements, regardless of whether the actions or omissions are alleged to be caused by TRPA or Permittee.

Included within the Permittee's indemnity obligation set forth herein, the Permittee agrees to pay all fees of TRPA's attorneys and all other costs and expenses of defenses as they are incurred, including reimbursement of TRPA as necessary for any and all costs and/or fees incurred by TRPA for actions arising directly or indirectly from issuance or implementation of this permit. TRPA will have the sole and exclusive control (including the right to be represented by attorneys of TRPA's choosing) over the defense of any claims against TRPA and over their settlement, compromise or other disposition. Permittee shall also pay all costs, including attorneys' fees, incurred by TRPA to enforce this indemnification agreement. If any judgment is rendered against TRPA in any action subject to this indemnification, the Permittee shall, at its expense, satisfy and discharge the same.

**END OF PERMIT** 

# Attachment B Project Plans and Scenic Simulations



# **GRANLIBAKKEN TAHOE**

725 GRANLIBAKKEN RD. **TAHOE CITY, CA 95482** 

## PROJECT REFERENCE NUMBERS

SITE I.D.: US I.D.:

FA NO : 15332991 **ORACLE NO.:** 3701A0W6KC PACE NO.: MRSFR073062

A4.2

A5.2

PROGRAM:

## APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTORS' WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE

2019 CA ADMINISTRATIVE CODE

- 2019 CA BUILDING CODE
- 2019 CA ELECTRICAL CODE 2019 CA MECHANICAL CODE
- 2019 CA PLUMBING CODE 2019 CA FIRE CODE

2019 ENERGY CODE

SUBCONTRACTORS' WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES AND

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS EXEMPT BASED ON ADA STANDARDS 203.5 AND CBC 11B-203.5 "MACHINERY

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

## **VICINITY MAP**



at&t

2700 WATT AVENUE, 3473-34

## **PROJECT TEAM**

## AT&T MOBILITY 2700 WATT AVENUE, 3473-34

**APPLICANT/LESSEE:** 

SACRAMENTO, CA 95821 CONTACT: CAROL MCCLOSKEY PHONE: (916) 952-1466

## OWNER:

TBD

## SAQ/ZONING/PERMITTING:

COMPLETE WIRELESS CONSULTING

DESTINATION WILL BE ON THE RIGHT.

2009 V STREET SACRAMENTO, CA 95818 CONTACT: KEVIN GALLAGHER **PHONE:** (916) 764-2632

## ARCHITECT:

DELTA GROUPS ENGINEERING 6800 KOLL CENTER PARKWAY, SUITE 225

PLEASANTON, CA 94566 **PHONE:** (925) 468-0115

### STRUCTURAL:

DELTA GROUPS ENGINEERING 6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566

**PHONE:** (925) 468-0115

## **CONSTRUCTION:**

TOTAL ENVIRONMENTAL & POWER SYSTEMS, INC. 2500 BISSO LN. SUITE 500

CONCORD, CA 94520 CONTACT: TONY PACHAO PHONE: (925) 681-2238

## RF ENGINEER:

SITE DIRECTIONS

FROM AT&T MOBILITY OFFICES LOCATED AT 2700 WATT AVENUE IN SACRAMENTO,

HEAD WEST TOWARD KINGS WAY. HEAD WEST TOWARD KINGS WAY. TURN LEFT TOWARD KINGS WAY. TURN RIGHT ONTO KINGS WAY. TURN RIGHT AT THE 1ST

CROSS STREET ONTO WATT AVE. USE THE RIGHT LANE TO TAKE THE I-80 RAMP

TO RENO.MERGE ONTO I-80BL. USE THE LEFT 3 LANES TO MERGE ONTO I-80 E TOWARD RENO. TAKE EXIT 185 FOR CA-89 S TOWARD LAKE TAHOE. AT THE

TRAFFIC CIRCLE, TAKE THE 1ST EXIT ONTO CA-89 S. AT THE TRAFFIC CIRCLE,

TAKE THE 1ST EXIT ONTO CA-89/LAKE BLVD. AT THE TRAFFIC CIRCLE, TAKE THE 1ST EXIT ONTO W LAKE BLVD. TURN RIGHT ONTO GRANLIBAKKEN RD.

AT&T MOBILITY
2700 WATT AVENUE, 3473-34 SACRAMENTO, CA 95821 CONTACT: BRETT LAWLESS PHONE: (916) 716-9276

PROJECT DESCRIPTION

THIS IS AN APPLICATION FOR A NEW, UNMANNED AT&T MOBILITY SERVICES FACILITY

THE INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT WITHIN EXISTING

WALL-MOUNTED EQUIPMENT RACK INSIDE EXISTING BUILDING & (1) GPS

REMOTE RADIO UNIT - MOUNTED AT ROOFTOP OF EXISTING BUILDING

THE INSTALLATION OF TWO (1) OUTDOOR DIRECTIONAL ANTENNAS W/ (1)

THE INSTALLATION OF TWO (3) OUTDOOR DIRECTIONAL ANTENNAS W/ (1) REMOTE RADIO UNIT — MOUNTED AT ROOFTOP OF EXISTING BUILDING

(DEARWANDER BUILDING).
THE INSTALLATION OF ASSOCIATED COMMUNICATIONS AND UTILITIES WIRING AS

## SITE ADDRESS:

725 GRANLIBAKKEN RD. TAHOE CITY, CA 95482

ANTENNA (MAIN LODGE).

(BEARPAW BUILDING).

TBD

LATITUDE (NAD83): SECTOR 1 & 2: 39° 9' 25.02"N SECTOR 3: 39° 9' 23.92"N SECTOR 4: 39° 9' 22.85"N

SECTOR 1 & 2: 120° 9' 16.45"W SECTOR 3: 120° 9' 16.89"W SECTOR 4: 120° 9' 18.26"W

**ELEVATION:** 

095-510-049-000, 095-510-002-000 095-510-003-000

TBD

OCCUPANCY TYPE:

**DRAWING INDEX** 

TITLE SHEET
GENERAL NOTES, LEGEND, & ABBREVIATIONS

OVERALL SITE PLAN

ENLARGED SITE PLAN, & ANTENNA LAYOUTS (DEARWANDER & BEARPAW

BUILDINGS)

EQUIPMENT PLAN (MAIN LODGE)

NORTH & EAST ELEVATIONS (DEARWANDER BUILDING)
SOUTH & WEST ELEVATION (DEARWANDER BUILDING) EAST & SOUTH ELEVATIONS (BEARPAW BUILDING)

WEST ELEVATION (BEARPAW BUILDING)

GENERAL STRUCTURAL NOTES,& DETAILS

SIGNAGE, & ANTENNA EQUIPMENT SPECIFICATIONS

ANTENNA EQUIPMENT SPECIFICATIONS

FLECTRICAL & TELEPHONE SPECIFICATIONS & UTILITIES NOTES

EQUIPMENT & ANTENNA GROUNDING PLANS
GENERAL GROUNDING NOTES, & GROUNDING DETAILS

## PROJECT INFORMATION

PROPERTY OWNER:

## JURISDICTION: TBD

## ZONE:

## TYPE OF CONSTRUCTION:

**GRANLIBAKKEN TAHOE** FA NO. 15332991

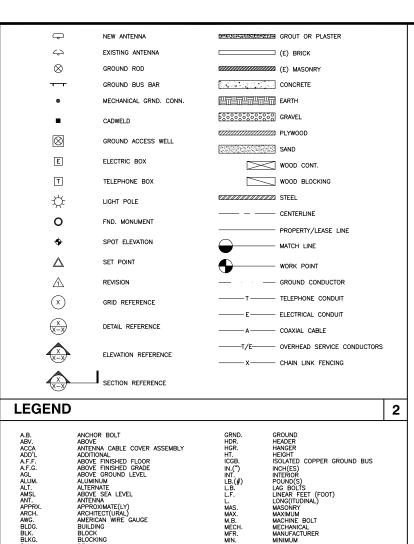
DELTA GROUPS ENGINEERING, INC. CONSULTING ENGINEERS 6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925)

FAX: (925) 468-0355

TITLE SHEET P21AT003 AGENDA ITEM NOOLIBAYKEIATAHOE

TAHOE CITY, CA 96145

725 GRANLIBAKKEN RD.



ABOVE ANTENNA CABLE COVER ASSEMBLY ADDITIONAL ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ABOVE GROUND LEVEL HEIGHT ISOLATED COPPER GROUND BUS ICGB. INTERIOR
POUND(S)
LAC BOLTS
LINEAR FEET (FOOT)
LONG(ITUDINAL)
MASONRY
MAXIMUM
MACHINE BOLT
MECHANICAL
MANUFACTURER
MINIMIM LB.(#) L.B. L.F. ALTERNATE ABOVE SEA LEVEL ANTENNA APPROXIMATE(LY) ARCHITECT(URAL) AMERICAN WIRE GAUGE BUILDING BLOCK BLOCKING MINIMUM MISCELLANEOUS BEAM BOUNDARY NAILING BACK-UP CABINET CABINET CABINET
BARE TINNED COPPER WIRE
BOTTOM OF FOOTING
CANTILEVER(ED)
CAST IN PLACE
CEILING
CLEAR

DRAWING(S)
DOWEL(S)
EACH
ELEVATION
ELECTRICAL
ELEVATOR
ELECTRICAL
METALLIC TUBING

NUMBER
NOT TO SCALE
ON CENTER
OPENING
PRECAST CONCRETE
PERSONAL COMMUNICATION SERVICES
PLYWOOD
POWER PROTECTION CABINET
PRIMARY FLEXENT CABINET
PRIMARY FLEXENT CABINET PWR.
QTY.
(R)
REF.
RAD.(R)
REF.
REG'D.
RGS.
SCH.
SHT.
SPEC.
SCS.
STD.
STLUC.
TEMP.
TIN.
T.O.C.
T.O.F.
T.O.F.
T.O.S.
T.O.F.
T.O.F.
T.O.F.
T.O.S.
T.O.F.
T.O.F POWER (CABINET)
QUANTITY RADIUS REFERENCE REINFORCEMENT(ING) REQUIRED RIGID GALVANIZED STEEL SCHEDULE STAINLESS STEEL STANDARD SIRUCTURAL
TEMPORARY
THICK(NESS)
TOE NAIL
TOP OF ANTENNA
TOP OF CURB
TOP OF FOUNDATION
TOP OF PLATE (PARAPET)
TOP OF STEEL
TOP OF WALL
TYPICAL UNDER GROUND UNDERWRITERS LABORATORY
UNLESS NOTED OTHERWISE
VERIFY IN FIELD WIDE(WIDTH)

> WOOD WEATHERPROOF WEIGHT CENTERLINE

## **DRAWING SPECIFICATIONS**

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.

2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3. THE DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS HAVE PRECEDENCE OVER THE DRAWING SCALE. DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF THE DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD

DIMENSIONS.

A ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THERE EXACT MEANING, THE PROLECT MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

5. THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

6. REPRESENTATIONS OF THE TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FALLURE TO NOTIFY THE ARCHITECT/ENGINEER.

77. THESE CONSTRUCTION DRAWING DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.

8 THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE, AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.

10. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.
11. GENERAL ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

## CONTRACTOR SPECIFICATIONS

1. PRIOR TO THE SUBMISSION OF BIDS, THE PARTICIPATING CONTRACTORS SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS, AND CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO SUBMISSION OF BIDS AND CONSTRUCTION, SHOULD ANY ERRORS, OMISSIONS, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER, IN WRITING, IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNICES SPECIFICALLY DIRECTED OTHERWISE. IF A BISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT/ENGINEER ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

2. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE FLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER, SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

3. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE 3. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER IF ANY OF THE DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOFED, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.

5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS. 6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES, REGULATIONS, AND ORDINANCES, AS WELL AS, STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) RECHIREMENTS

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 16, SECTION 1613 OF THE CBC REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CELING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST E IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

8. THE WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

NATIONAL ROOFING CONTRACTORS ASSOCIATION
O'HARE INTERNATIONAL CENTER
10255 WEST HIGGINS ROAD, SUITE 600 ROSEMONT, IL 60018

SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
NATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE CHATTILY, VA 22021-1209

INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 TRANSFER ROAD ST. PAUL, MN 55114-1406

ADHESIVE MANUFACTURERS ASSOCIATION
401 NORTH MICHIGAN AVENUE, SUITE 2400

CHICAGO, IL 60611

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

10. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH LOCAL ELECTRICAL COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK.

12. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL SOLELY BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

13. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, PROJECT MANAGER AND THE CARRIER'S PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, EQUIPMENT, ETC., SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROJECT

IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER, OR THE OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP, OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY DELTA GROUPS ENGINEERING, INC. UNDER THIS CONTRACT

16. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. THE CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE—SPECIFIC CONDITIONS FROM THE ARCHITECT/ENGINEER, IF NECESSARY, BEFORE PROCEEDING.

18. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

19. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RECUIREMENTS.

REQUIREMENTS.

20. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

22. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY.

23. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION, AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. IN ADDITION, STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY THE PROJECT MANAGER.

26. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY THE WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR MUST ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

27. THE CONTRACTOR SHALL PROVIDE A CLOSE-OUT PACKAGE TO THE PROJECT MANAGER, WHICH WILL INCLUDE:

BUILDING PERMITS/ELECTRICAL PERMITS

FINAL INSPECTION CARD STAMPED BUILDING PERMIT PLANS GROUNDING TEST SWEEP TEST CONCRETE TEST

SPECIAL INSPECTION REPORTS WARRANTIES, MANUAL, EQUIPMENT SPECIFICATIONS SUBCONTRACTOR CONTACT LIST

REDLINED AS-BUILTS

REDUINED AS-BOXING
CONSTRUCTION PROCESS PHOTOS
SITE COMPLETION PHOTOS
A WRITTER REPORT ON ANTENNA SERIAL NUMBER FOR EACH SECTOR
MANUFACTURER'S PERFORMANCE REPORT FOR EACH ANTENNA

## **ENGINEERING REQUIREMENTS**

1. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.

2. SEAL ALL PENETRATIONS THROUGH FIRE—RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.

3. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS, AT WALL AND ROOF PENETRATIONS, SHALL BE CAULKED OR SEALED TO LIMIT INFILITATION OF AIR AND MOISTURES.

THE ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES IO AND 810.

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE DRAWINGS TO THE PROJECT MANAGER FOR APPROVAL. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT MANAGER.

6. THE CONTRACTOR SHALL SUBMIT THREE COPIES OF EACH REQUEST FOR SUBSTITUTIONS. IN EACH REQUEST, IDENTIFY THE PRODUCT, FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.

7. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE PROJECT MANAGER, SUBMIT ACTUAL SAMPLES TO DELTA GROUPS ENGINEERING, INC. FOR APPROVAL, IN LIEU OF CUT SHEETS.

8. CHANGE ORDERS MAY BE INITIATED BY THE PROJECT MANAGER AND/OR THE 8. CHANGE RUBLESS MAY BE INITIALED BY THE PROJECT MANAGERS MAYOUTH HE PROJECT MANAGER, MAYOUN THE CONTRACTOR, UPON VERBAL REQUEST FROM THE PROJECT MANAGER, SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT IT TO THE PROJECT MANAGER WITHIN SEVENTY-TWO HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE PROJECT MANAGER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

## **GENERAL REQUIREMENTS**

1. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT CONSTRUCTION AREA.

2 THE CONTRACTOR SHALL AT THEIR OWN EXPENSE CARRY AND MAINTAIN FOR 2. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT, ALL INSURANCE AS REQUIRED AND LISTED. THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE, STATING ALL COVERAGE, TO THE CELLULAR CARRIER. THE CELLULAR CARRIER SHALL BE NAMED AS AN ADDITIONAL COMPANY INSURED ON ALL POLICIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWNINGS. ANY SUCH DISCREPANCY IN DIMENSIONS, WHICH MAY BE FOUND, SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.

4. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.

5. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

6. BEFORE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT THE PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE CELLULAR CARRIER'S PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY WORDY.

VORTE CONTRACTOR SHALL SUBBIT A BAR TYPE PROCRESS CHART NOT MORE THAN THREE DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE. IT SHALL INDICATE A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERTY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.

. THE CONTRACTOR SHALL PROVIDE WRITTEN DAILY UPDATES ON SITE ROGRESS TO THE PROJECT MANAGER.

9. A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

10. NOTIFY THE PROJECT MANAGER IN WRITING NO LESS THAN FORTY-EIGHT HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

11. THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL MOT BE SUPPLIED BY THE CELLULAR CARRIER, NOR WILL WIRELESS SERVICE BE ARRANGED.

12. DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL SAFETY REQUIREMENTS IN THEIR AGREEMEN.

**ABBREVIATIONS** 

GLB.(GLU-LAM) GPS

BM.
B.N.
B/U
CAB.
BTCW.
B.O.F.
CANT.
C.I.P.
CLG.
CCNC.
CONC.
CONC.
CONST

ELEC.
ELEC.
ELEV.
EMT.
E.N.
ENG.
EQ.
EXST.(E)
EXT.(F)
FAB.
F.F.
F.O.C.
F.O.C.
F.O.S.
F.O.S.
FT.(')
FTG.

CONCRETE CONNECTION(OR) CONSTRUCTION CONTINUOUS PENNY (NAILS)

DOUGLAS FIR DIAMETER DIAGONAL DIMENSION DRAWING(S)

EDGE NAIL ENGINEER

EQUAL EXPANSION

FINISH(ED)

EXISTING EXTERIOR FABRICATION(OR) FINISH FLOOR FINISH GRADE

FINISH(ED)
FLOOR
FOUNDATION
FACE OF CONCRETE
FACE OF MASONRY
FACE OF STUD
FACE OF WALL
FINISH SURFACE
FOOT(FEET)
FOOTING

FOOTING GROWTH (CABINET)

GROUND FAULT CIRCUIT INTERRUPTER
GLUE LAMINATED BEAM
GLOBAL POSITIONING SYSTEM

**GENERAL NOTES** 3

> **GRANLIBAKKEN TAHOE** FA NO. 15332991

> > 725 GRANLIBAKKEN RD. TAHOE CITY, CA 96145



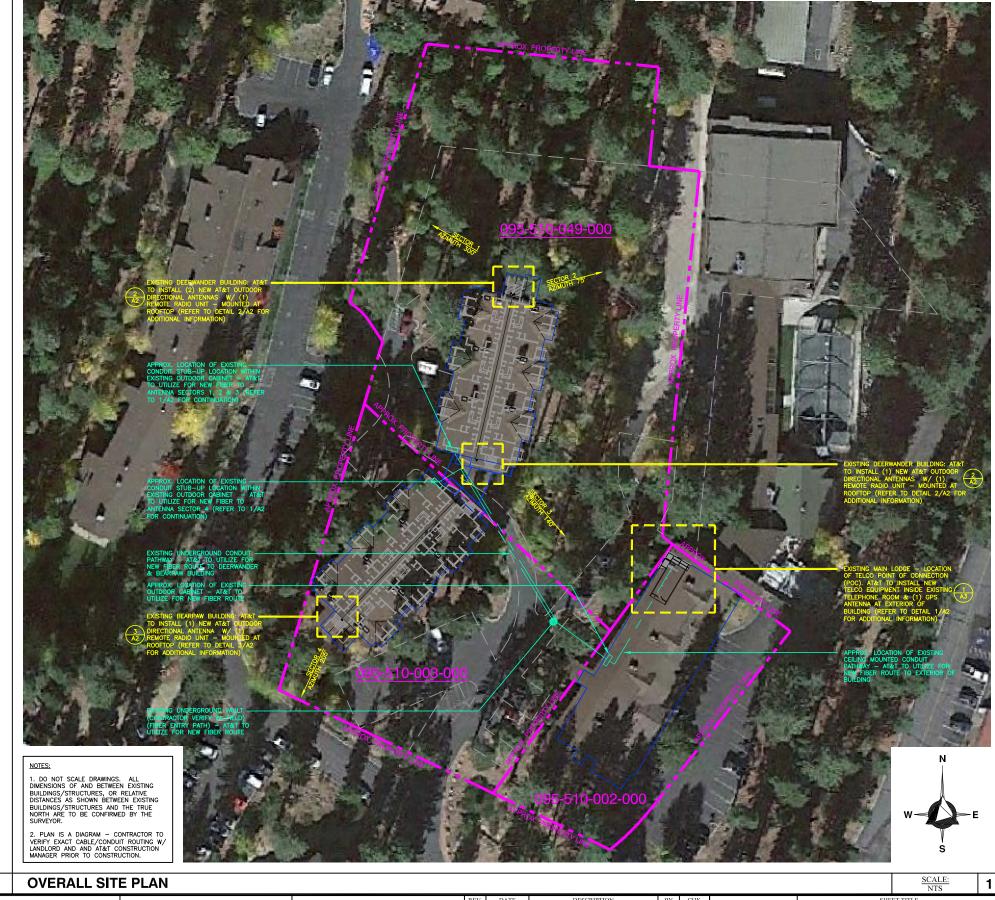
6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON. CA 94566 TEL: (925) 468-0115 FAX: (925) 468-0355

SHEET TITLE GENERAL NOTES, LEGEND, AND ABBREVIATIONS P21AT003 AGENDA ITEM NOLIBAKEATAHOE

at&t

2700 WATT AVENUE, 3473-34

SACRAMENTO, CA 95821



UNUSED



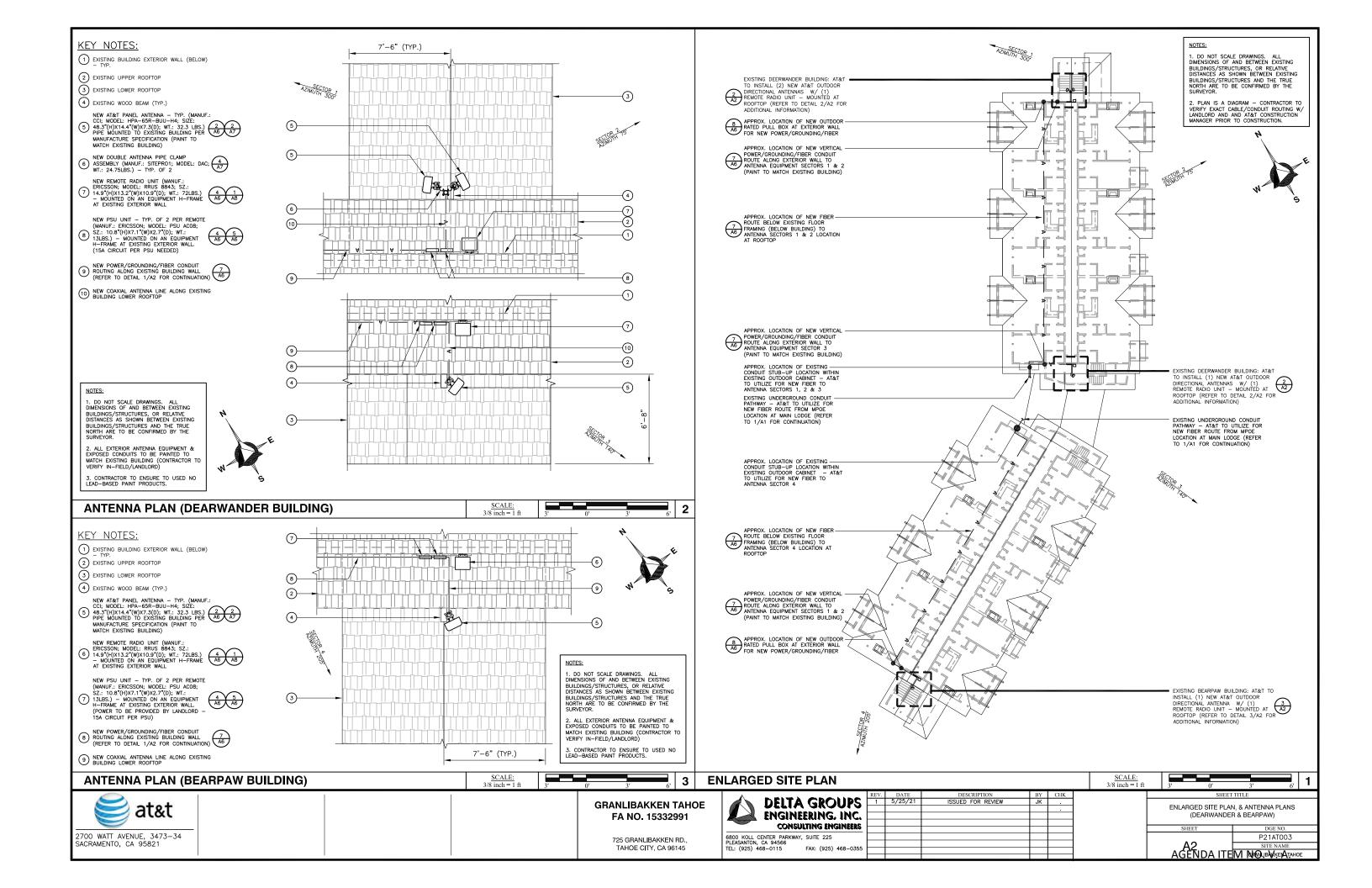
GRANLIBAKKEN TAHOE FA NO. 15332991

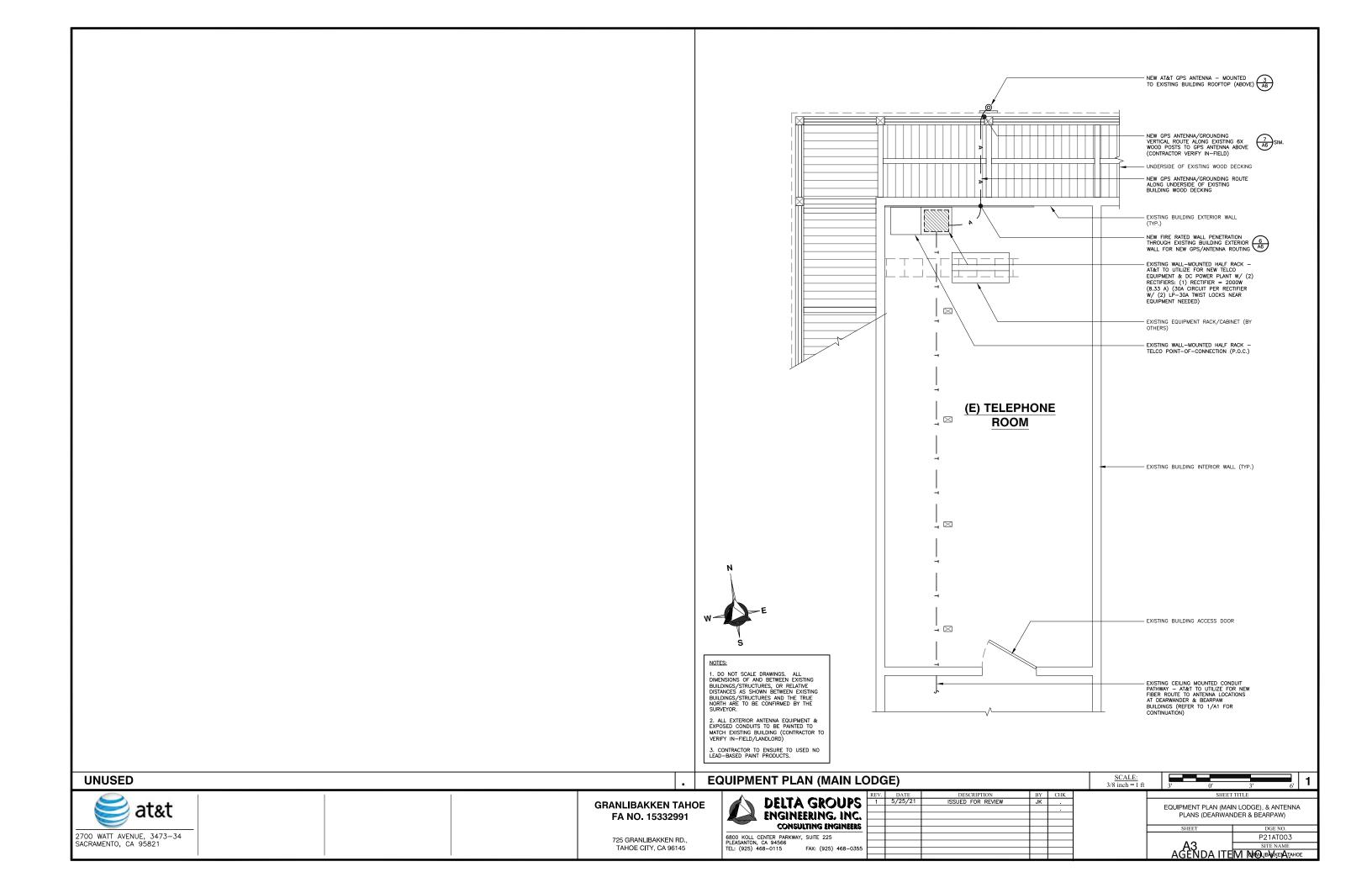
725 GRANLIBAKKEN RD., TAHOE CITY, CA 96145

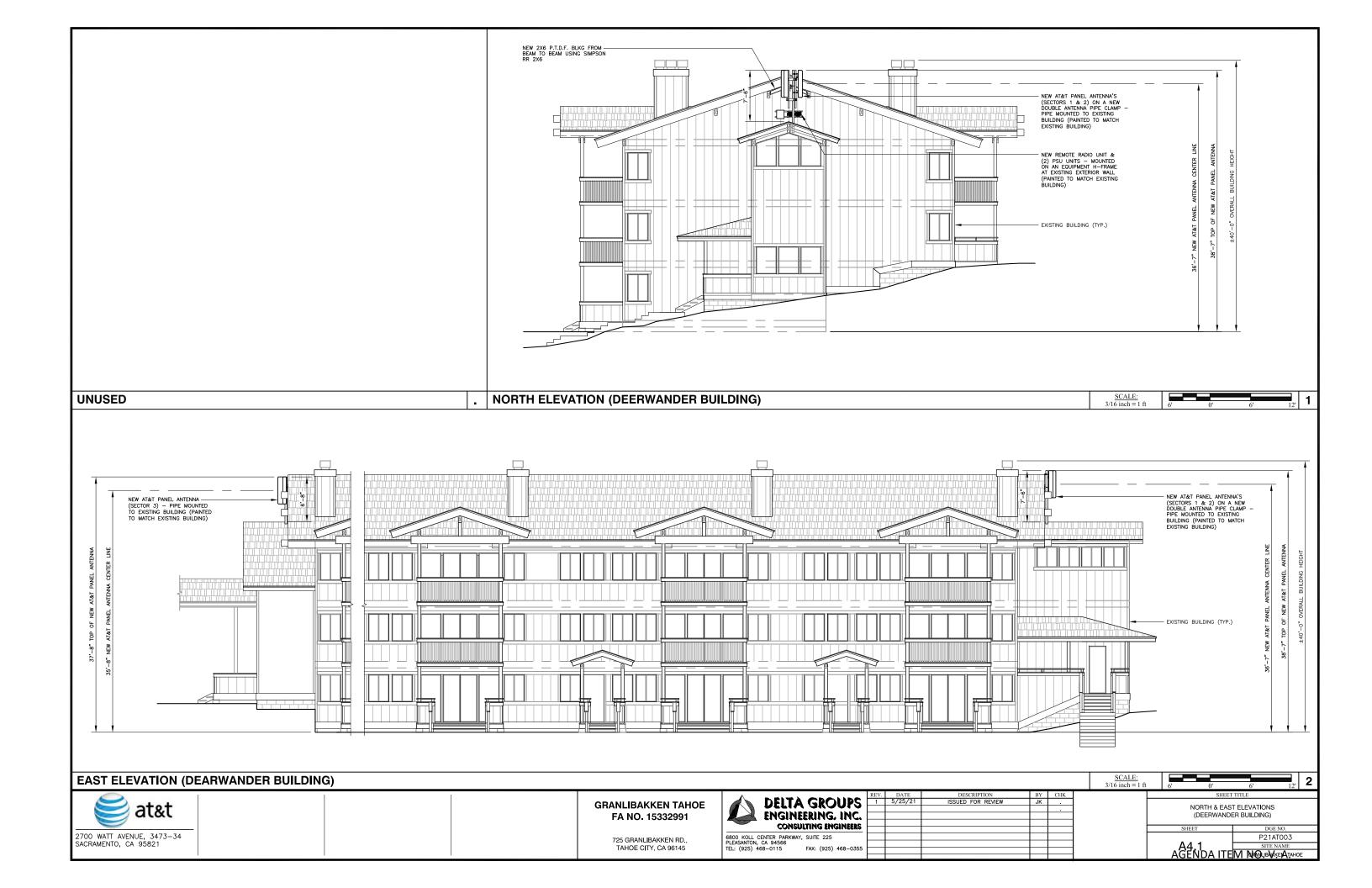
DELTA GI		REV.	
ENGINEERIN CONSULTING			
6800 KOLL CENTER PARKWAY, SUITE	225		
PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (	925) 468-0355		L
TEL. (925) 400-0115	923) 400-0333 [		

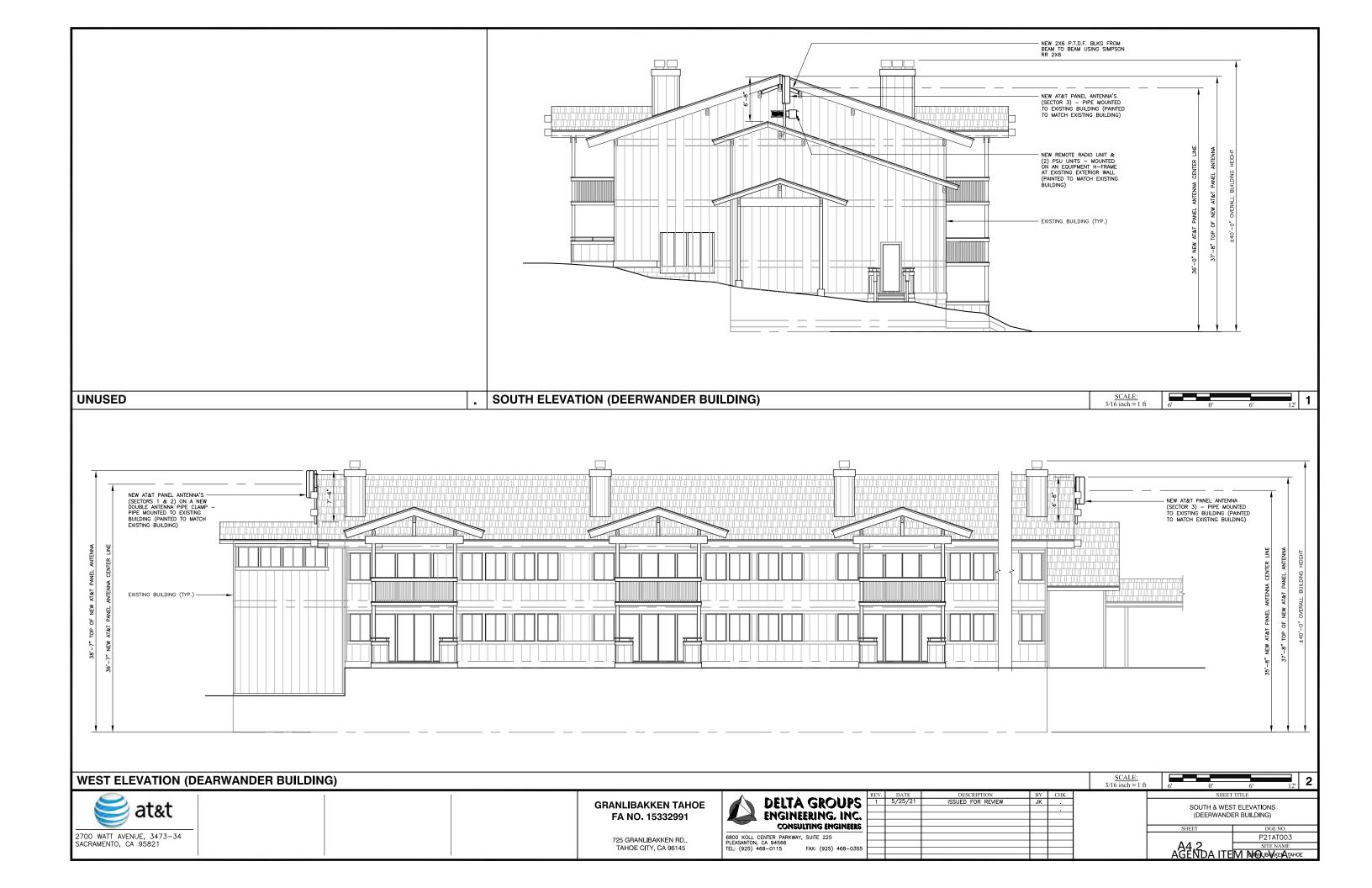
	REV.	DATE	DESCRIPTION	BY	CHK	Г
S	1	5/25/21	ISSUED FOR REVIEW	JK		
-						
เร						l
_						ļ
						l
55						l
						1

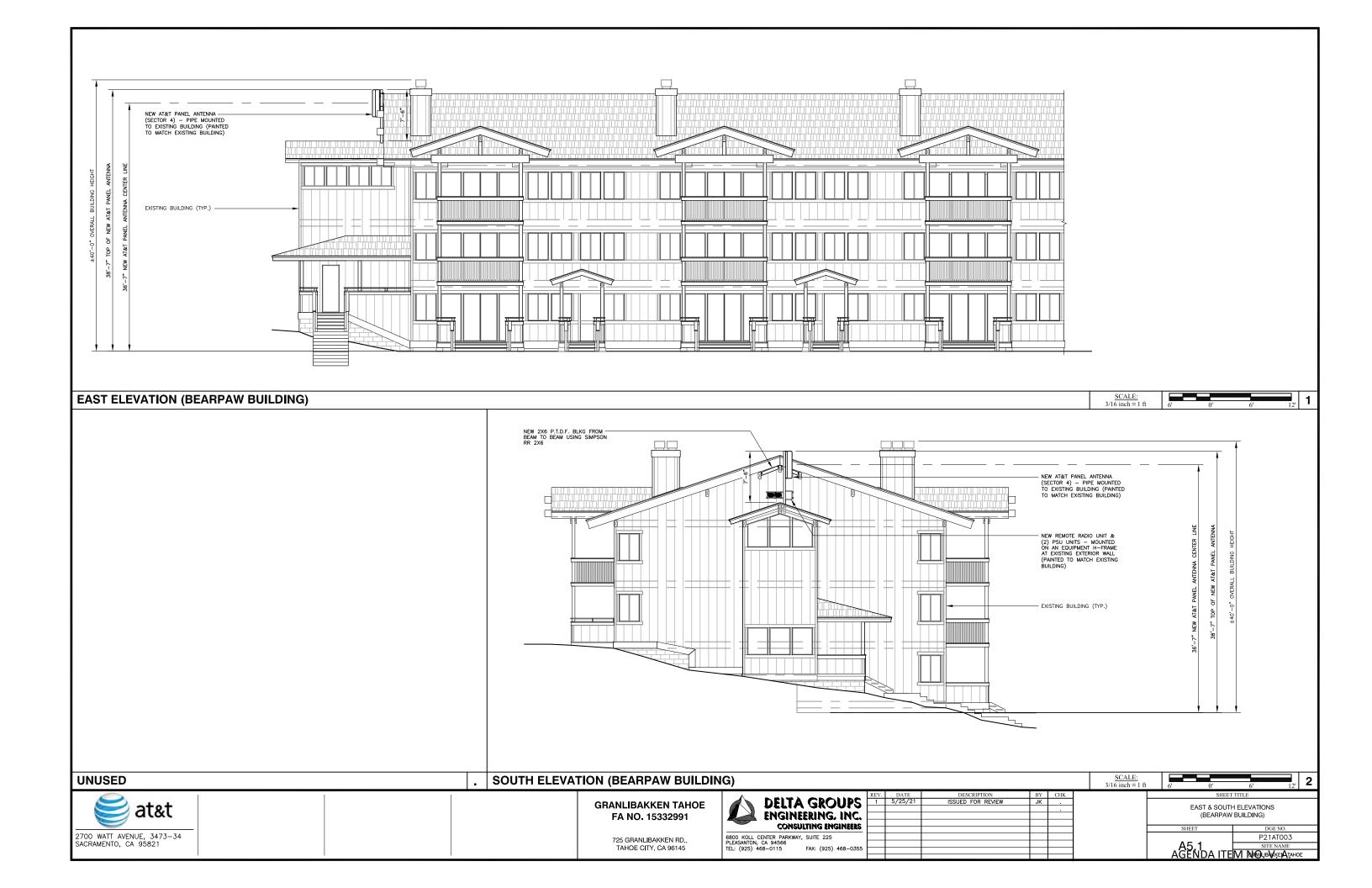
SHEET TITLE			
OVERALL SITE PLAN			
SHEET	DGE NO.		
	P21AT003		
l A1	SITE NAME		
AĞENDA ITE	<b>M løk®ribyN</b> kiel∕ <b>∀</b> åvhoe		

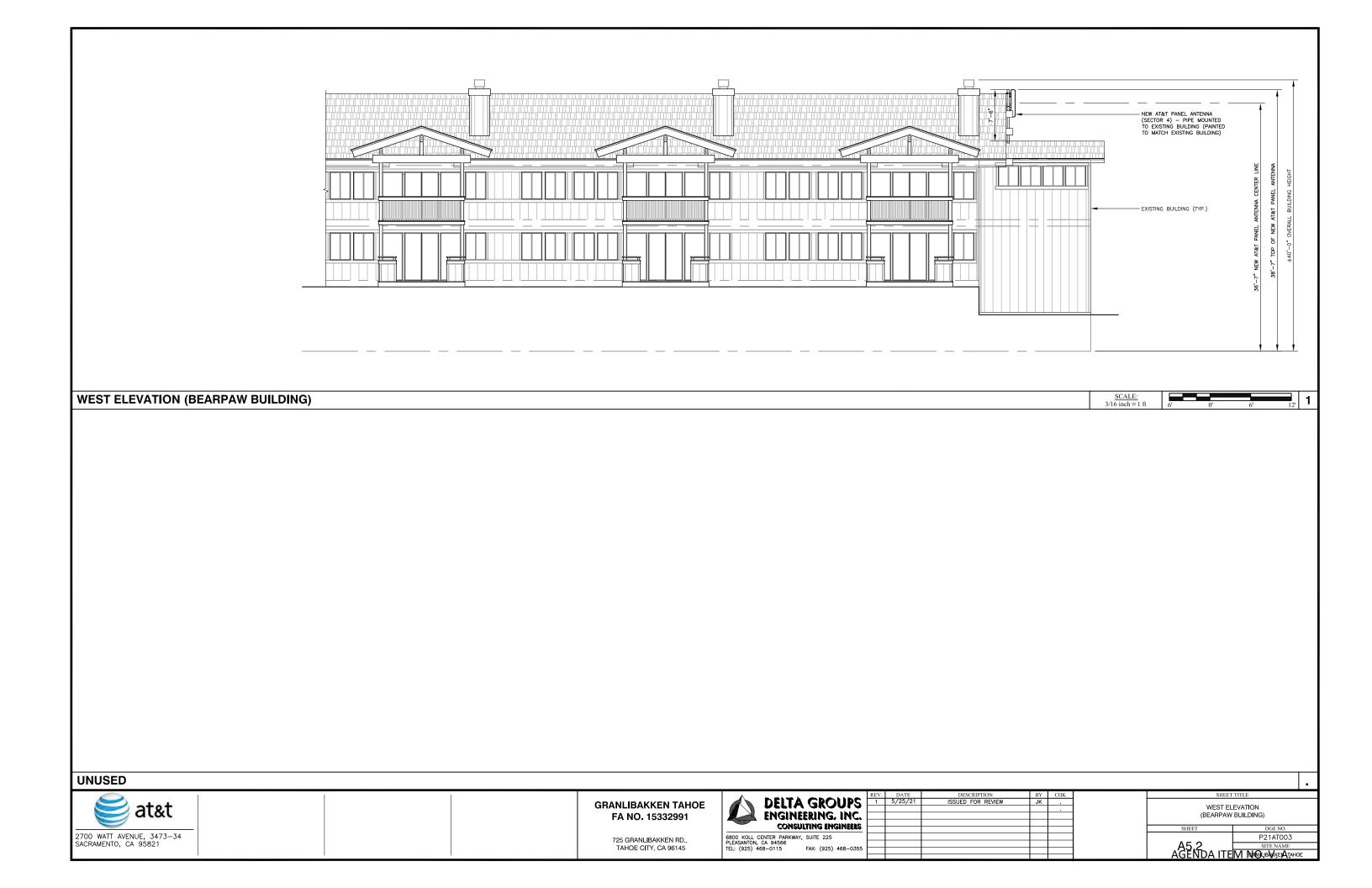


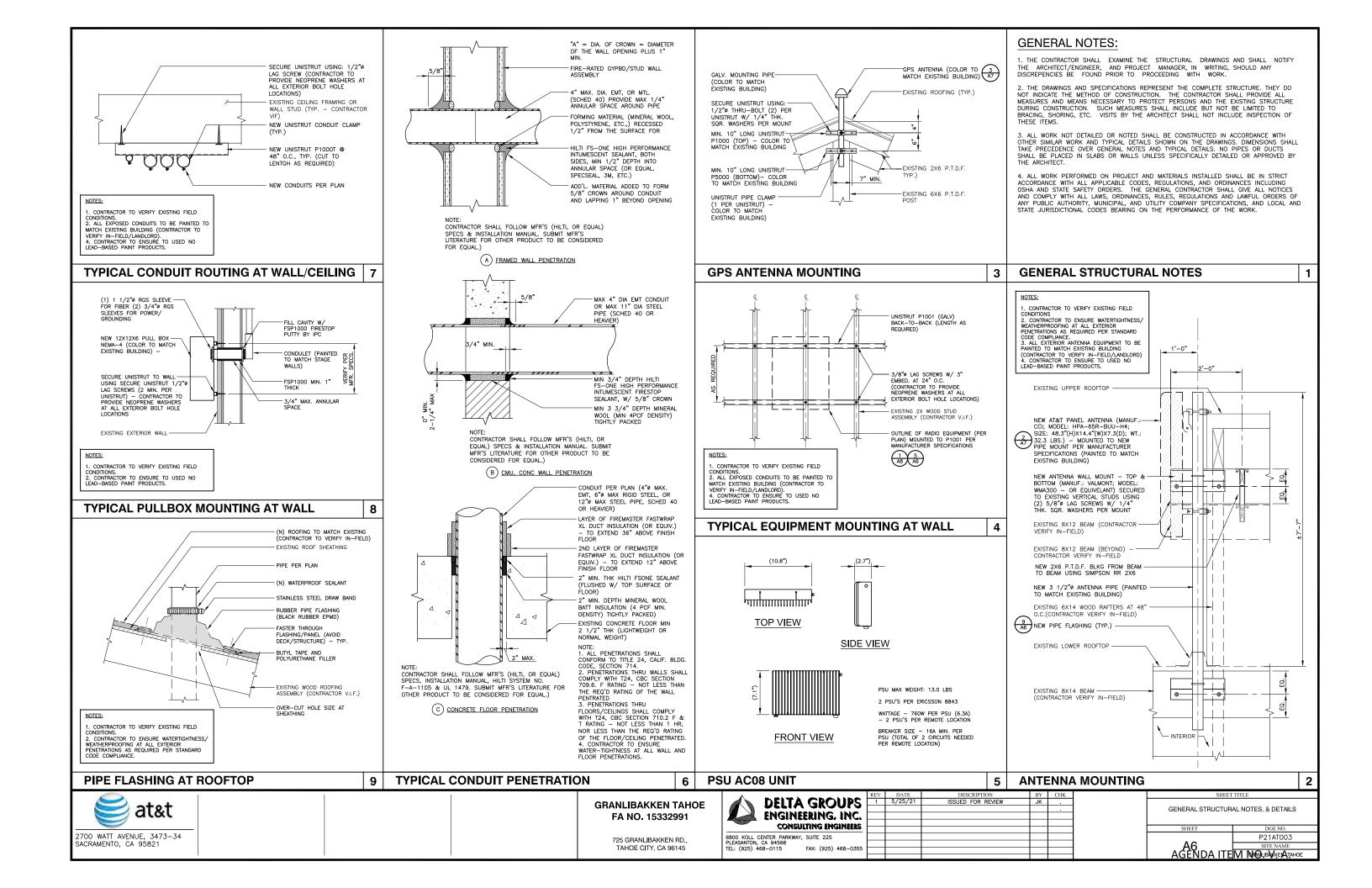


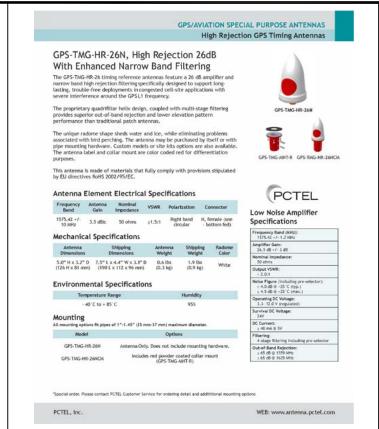




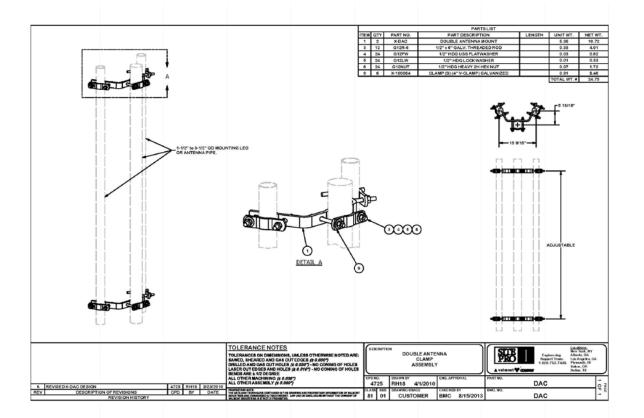








**UNUSED GPS ANTENNA SPEC SHEETS** 











## On this tower:

Radio frequency (RF) fields near some antennas may exceed the FCC Occupational Exposure Limits.

Contact AT&T at 800-638-2822, option 9 and 3, and follow their instructions prior to performing maintenance or repairs beyond this point.

Personnel climbing this tower should be trained for working in RF environments and use a personal RF monitor if working near active antennas.

Caution Sign #CAOTT-AL-057 This is AT&T site

THE CUSTODIAN OF THIS STATION'S LICENSE IS:

## AT&T

ATTENTION TO: FCC GROUP 208 S. AKARD STREET, RM 1016

DALLAS, TX 75202 855-699-7073 FCCMW@att.com



S AT&T

**DOUBLE ANTENNA PIPE CLAMP** 



**GRANLIBAKKEN TAHOE** 

725 GRANLIBAKKEN RD., TAHOE CITY, CA 96145

FA NO. 15332991

ENGINEERING, INC.

6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925) FAX: (925) 468-0355

**DELTA GROUPS** CONSULTING ENGINEERS

**OMNI DIRECTIONAL ANTENNA SPEC SHEETS** 

SIGNAGE

SIGNAGE, & ANTENNA EQUIPMENT SPECIFICATIONS P21AT003 A7 SITE NAME
AGENDA ITEM NO LIBN/KENATAHOE

# RRUS 8843 B2, B66A

- B2 TX=1930 1990 MHz, B66A TX=2110 2180 MHz
- B2 RX = 1850 1910 MHz. B66A RX = 1710-1780 MHz
- > CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFP7s and connect 2 fiber pair to the RRUS 8843 during initial install. 2nd CPRI is reserved for 5G NR deployment later. Do not connect SFP7 to DUL20.
- Only use Ericsson supplied and approved SFP7s RDH10265/25.
  - Install 2 SFP RDH 10265/3 for CPRI length 1.4 km 10 km Install SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 (bi-directional SFP7 for CPRI length > 10 km
- 2 external alarm inputs
- Max wind load @ 50m/sec = 260 N
- > Breaker size = 2x30A, DC Power Consumption = 1520 W (for dimensioning). Both DC power connections must be connected and operational for the radio to operate. Each DC Feed must support 1100W individually for cable size, vollage drop engineering. A single DC trunk cable that can handle 1520W and #10AWG Y DC splitter cable from the surge suppressor to the 2 DC power connections can be used with a single 40A breaker.
- > 40 mm horizontal separation required between radios mounted side by side
- > 200mm separation required from antenna backplane to radio
- > 400mm vertical outdoor/indoor separation required between 2 radios
- > 500mm vertical separation below antenna
- > 200mm horizontal separation between radio and side edge of antenna
- Min, Max DC cable size from squid to racio = 10,8 AWG
  - Adapter is required for 2-wire connection
- Shielded DC cable is required
- Ground cable size = 2AWG
- > Dimensions (incl. handles, feet and sunshield, w/o fan unit)
  - Height: 14.9" (380 mm)
- Width: 13.2" (335 mm)
- Depth: 10.9" (277 mm)
- Weight, excl. mounting hardware = 72 lbs (32.6 kg)

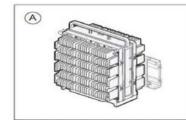
RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 2

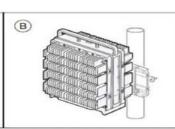


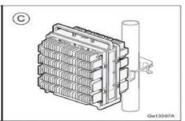


## RRUS 8843 MOUNTING OPTIONS





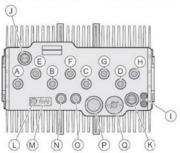




Installation Method	Description
A	Wall installation
В	Pole installation
С	Pole installation with single pole clamp

RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 4

## RRUS 8843 B2, B66A CONNECTION INTERFACES



4 TX/ 4RX Mode Configured Band RF Ports E,F,G,H Band 66A (AWS)

RF Ports A,D Band 2 (PCS) RF Ports E,H Band 66A (AWS)

Position	Description	Marking	Connector Types	Cable Types
A	Antenna A <sup>(1)</sup>	Aă≠	4.3-10 Plus	ah ah
B	Antenna B	BX2		BB
c	Antenna C	că≠		(a) (a)
О	Antenna D	DX≠		3330.0
E	Antenna E <sup>(1)</sup>	EXZ		
E	Antenna F	Fă≠		
G	Antenna G	Gă≄		
н	Antennu H	Hã≄		
ı	Crounding	-	2 x MS bolt	13
Position	Description	Marking	Connector Types	Cable Types
3	-48 V DC power supply	~4.0 V	Power connector	
к	-48 V DC power supply	-48 V		TOTAL
L	Maintenance button		-	-
M Pi	Optical indicators  External alarm and fan unit power supply and control	***	Mini Dth connector, 14 pin	
U	ALU (used for a His I unit for example)	ALU	LO (On BETT) WITH SWEPPER FOR FURNACIO	
2"	Optical sable 1	9-1		
a	Optical catile 2	⊕- <u>з</u>		A DE

CPRI, RET/AISG port, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 3



## **REMOTE RADIO UNIT SPEC SHEETS**



**GRANLIBAKKEN TAHOE** FA NO. 15332991

> 725 GRANLIBAKKEN RD., TAHOE CITY, CA 96145

		A GRO		NC. 🗀
		ULTING EN		
6800 KOLL C	ENTER PARKWA	Y, SUITE 225		
PLEASANTON,		()		
TEL: (925) 46	88-0115	FAX: (925)	468-0355	

REV.	DATE	DESCRIPTION	BY	CHK	
1	5/25/21	ISSUED FOR REVIEW	JK		
					ı
					ı
					ı
					ı

SHEET TITLE ANTENNA EQUIPMENT SPECIFICATIONS P21AT003 A8 SITE NAME
AGENDA ITEM NO LIBN/KENATAHOE

- 1. ALL WORK AND MATERIAL SHALL BE IN COMPLETE COMPLIANCE WITH THE LATEST EDITION OF THE N.E.C. AND ALL REGULATIONS, LAWS, SAFETY ORDERS, ORDINANCES OR CODES. IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL
- 2. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS AND WIREWAYS SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE, CHAPTER 23 AND "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS," PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUT-SEISMIC RESTRAINTS SYSTEM, OR THE KIN-LINE SEISMIC RESTRAINT SYSTEM.
- 3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING, AUTHORITY WHERE (UL) DOES NOT HAVE LISTING, CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURE ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND REGULATIONS:

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
AMERICAN STANDARD ASSOCIATION (ASA)
NATIONAL FIRE PROTECTION AGENCY (NPPA)
AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
NATIONAL ELECTRICAL CODE (NEC)
INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
ALL LOCAL CODES HAVING JURISDICTION

- 4. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, AND SHALL THOROUGHLY FAMILLARIZE HIMSELF WITH THE EXISTING CONDITIONS AS WELL AS THE ELECTRICAL AND GROUNDING REQUIREMENTS OF THIS PROJECT. BY SUBMITTING A BID, HE ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
- 5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST EDITION OF ANY DESIGN SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES, FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIQUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A BID. ANY SUCH CONFLICTS NOT CLARIFED PRIOR TO BID SHALL SUBJECT TO THE INTERPRETATION OF THE PROJECT MANAGER AT NO ADDITIONAL COST.
- 7. THE CONTRACTOR SHALL OBTAIN AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE PROJECT MANAGER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON BY THE CONTRACTOR WITH RED INK IN A NEAT, LEGIBLE, UNIDERSTANDABLE AND PROFESSIONAL MANNER.
- 8. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE PROJECT MANAGER AND THE PROPERTY OWNER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE PROJECT MANAGER AND THE BUILDING OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
- 9. SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS INDICATED ON PLANS. SHOP DRAWINGS SHALL INCLUDE ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURE'S BROCHURES.
- 10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT MANAGER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF THOSE REPRESENTATIVES. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE PROJECT MANAGER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- 11. THE CONTRACTOR SHALL FURNISH ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 12. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REVIEW THE DRAWINGS OF OTHER TRADES AND LOCATION OF EQUIPMENT.
- 13. EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS, SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR, OR CFILING
- 14. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY
- 15. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS:
- LIQUID—TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS AND IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.

PROVIDE A SEPARATE INSULATED GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

- 16. ROUTE EXPOSED AND CONCEALED CONDUIT PARALLEL AND PERPENDICULAR TO WALL AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTING AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL PROPERTY OWNERS, UTILITIES, AND APPROPRIATE "DIG ALERT" UNDERGROUND MARKING ASCRICES AND COMPANIES. THE CONTRACTOR SHALL ALWAYS USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL ALWAYS USE EXTREME CAUTION WHEN TRENCHING FOR REPAIR OF ANY AND ALL DAMAGES CAUSED DURING THE COURSE OF HIS WORK.

- 18. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE PROJECT MANAGER AND THE ARCHITECT/FERGINEER.
- 19. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT WEATHER PROOF PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR PER THE LATEST EDITION OF THE DESIGN SPECIFICATIONS, WHICHEVER IS MOST RESTRICTIVE. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- 20. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- 21. IDENTIFICATION NAME PLATES SHALL BE MICARTA 1/B INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCH BOARDS OR PANAL BOARDS, DISCONNECTING SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
- 22. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE PLANS AND DETAILS, PRIOR TO INSTALLATION.
- 23. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- 24. RIGID CALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT THREADED TYPE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT MECHANICAL DAMAGE. DIRECT BURIED PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE AND SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS. PROVIDE CONDUIT SUPPORTS NOT TO EXCEED 8'-0'. PROVIDE 3-PC CONNECTORS FOR SECONDARY GROWTH PATH OF SURFACE MOUNTED EMT.
- 25. RIGID STEEL CONDUIT FITTINGS INCLUDING COUPLINGS, LOCKOUTS, NIPPLES, ETC. SHALL BE THREADED AND THOROUGHLY GALVANIZED EXCEPT WHERE AN ADAPTER IS NEEDED TO CONNECT TO PVC. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTED TYPES ARE NOT ACCEPTABLE. SET SCREW TYPE IS NOT ACCEPTABLE.
- 26. ALL TELCO CONDUIT INSTALLATIONS AND OTHER EMPTY CONDUIT RUNS AND STUBS SHALL INCLUDE A YELLOW 3/8" POLYPROPYLENE PULL STRING.
- 27. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. UNLESS SPECIFICALLY NOTED TO THE CONTRARY. ALL WIRE CONNECTORS SHALL BE CRIMP COMPRESSION TYPE BY "THOMAS AND BETI" OR APPROVED EQUIVALENT, INSTALLED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRE ENDS SHALL BE MARKED FOR EASY IDENTIFICATION AND TRACING.
- 28. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE—PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETS, NON—FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.
- 29. ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.
- 30. ALL EQUIPMENT, MONOPOLE, FRAME, CABLE TRAY AND ANTENNA GROUND WIRE CONNECTIONS TO GROUND BUSSES SHALL BE MADE WITH CRIMP TYPE COMPRESSION CONNECTORS (MINIMUM 2 HOLE LUGS WITH FULL BOLTING). BUSS SHALL BE PRE-DRILLED TO ACCOMMODATE ALL CONNECTORS.
- 31. ALL GROUNDING SHALL BE PER N.E.C. SECTION 250 AND 810 AND THE GROUNDING REQUIREMENTS OF THESE DRAWINGS.
- 32. ALL GROUND WIRE CONNECTIONS BETWEEN GROUND BUSSES AND OTHER GROUND BUSSES AND GROUND RODS SHALL BE CADWELD.
- 33. ALL METALLIC GROUND WIRE CONDUIT SHALL BE GROUNDED TO THE GROUND WIRE USING SET SCREW CONNECTIONS AT CONDUIT END CAPS AND CRIMP CONNECTIONS AT WIRE.
- 34. COAT ALL BOLTED LUG & BUSS GROUND CONTACT SURFACES WITH KIPR-SHIELD, NO-OX, OR EQUAL PRIOR TO ATTACHMENT.
- 35. MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING A.I.C.
- 36. ALL EQUIPMENT SHALL BE U.L. LISTED.
- 37. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY COMPANY.
- 38. ALL CORING CLEARANCES SHALL BE FIELD VERIFIED AND ALL CONDUIT ROUTING SHALL BE COORDINATED WITH PROPERTY OWNERS REPRESENTATIVE.
- 39. ALL CONNECTIONS TO EXISTING MAIN SWITCHGEAR INCLUDING "BUS-TAPS" AND/OR "HOT-TAPS" REQUIRE CERTIFICATION AND APPROVAL. FABRICATION AND CERTIFICATION SHALL BE FURNISHED BY A CONTRACTOR APPROVED BY THE APPLICABLE UTILITY.
- 40. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES FOR FINAL AND EXACT WORK AND MATERIAL REQUIREMENTS, CONSTRUCT TO UTILITY COMPANIES ENGINEERING PLANS AND SPECIFICATIONS ONLY.

- 41. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE PROJECT MANAGER AT THE COMPLETION OF WORK.
- 42. SWITCHES AND RECEPTACLES AS SPECIFIED ON FLOOR PLANS.

- 1. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE POINT OF CONNECTION, CONDUIT ROUTE, INSTALLATION DETAILS AND SPECIFIC PROJECT PARAMETERS WITH THE LOCAL TELEPHONE COMPANY SINGLE POINT OF CONTACT (SPOC) PRIOR TO BEGINNING ANY WORK IN THE FIELD.
- 2. THE PROJECT ADDRESS AND ANY SPECIFIC UNIT NUMBER MUST BE PROVIDED TO THE LOCAL TELEPHONE COMPANY SPOC MINIMUM 1 WEEK PRIOR TO FINAL INSPECTION TO AVOID DELAY IN INSTALLATION OF SERVICE.
- 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND FACILITIES AS SHOWN AND DETAILED ON THE PLANS AS REQUIRED FOR T1 SERVICE AND A SINGLE POTS LINE TO THE BTS FACILITY.
- 4. THE TELEPHONE TERMINAL BACKBOARD SHALL BE 30"x8"-0"x5/8" THICK FIRE RATED PLYWOOD SANDED AND PAINTED WITH FIRE RATED PAINT. MOUNT BACKBOARD BOTTOM AT 6" A.F.F. PROVIDE MINIMUM 12" CLEARANCE FROM POWER ON THE SAME WALL AND 42" MINIMUM CLEARANCE FROM ADJOINING OR OPPOSITE WALLS. VERIFY WIDTH.
- 5. CONDUIT SPECIFICATIONS SHALL BE AS FOLLOWS:
- G. GENERAL: ALL TELEPHONE SERVICE CONDUIT SHALL RUN FROM POLE, VAULT, PULL—BOX, MANHOLE OR OTHER POINT OF CONNECTION ESTABLISHED BY THE LOCAL TELEPHONE COMPANY SPOC AND SHALL RUN CONTINUOUS TO AN EDGE OF THE TELEPHONE TERMINAL BACKBOARD.
- b. Underground conduit and bens shall be minimum 4" diameter schedule 40 pvc. Trench depth shall provide for minimum 24" cover over conduit. Conduit run shall be no more than 200 feet in length or have no more than (2) 90" bends (or equivalent) between pull boxes.
- c. ABOVE GROUND CONDUIT AND CONDUIT INSIDE BUILDINGS SHALL BE EMT WITH FITTINGS AS NOTED IN ELECTRICAL NOTES. PROVIDE A UL APPROVED 18" HIGH  $\times$  10" DEEP WEATHER RESISTANT NEMA 3R RATED PULL BOX ON ALL ABOVE GRADE CONDUIT RUNS AT INTERVALS NOT TO EXCEED 100 FEET OR (2) 90" BENDS (OR EQUIVALENT).
- d. OVERHEAD EXTERIOR FEEDS SHALL BE 4" DIAMETER RIGID GALVANIZED CONDUIT WITH A WEATHERHEAD OF A TYPE AND AT A HEIGHT APPROVED BY LOCAL TELEPHONE COMPANY SPOC (MINIMUM 20 FEET ABOVE FINISHED GRADE).
- 6. A 1-1/4" DIAMETER ORANGE INTER-DUCT SHALL BE PROVIDED IN ALL TELEPHONE SERVICE CONDUIT.
- 7. A MINIMUM 3/8" YELLOW POLYPROPYLENE PULL ROPE SHALL BE INCLUDED IN EVERY INTER-DUCT WITH A SEPARATE 3/8" YELLOW POLYPROPYLENE PULL ROPE INSIDE THE CONDUIT, NOT INSIDE THE INTER-DUCT.
- 8. THE ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABILITY OR SHALL PROVIDE A NEW 120V POWER SOURCE MINIMUM 12" FROM TELEPHONE TERMINAL BACKBOARD.
- 9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 SOLID INSULATED COPPER GROUND WIRE FROM A GROUND SOURCE APPROVED BY THE LOCAL TELEPHONE COMPANY SPOC MINIMUM STANDARD SOURCE SHALL BE A 5/8" DIAMETER × 8"-0" LONG COPPER CLAD STEEL GROUND ROD.
- 10. ALL WIRING SHALL BE DONE BY THE LOCAL TELEPHONE COMPANY UNLESS OTHERWISE NOTED.
- 11. ALL TELEPHONE CONDUIT SHALL BE LABELED AT DESIGNATED TELEPHONE COMPAN

## TELEPHONE SPECIFICATIONS

- UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- 2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BOKKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
- 3. UTILITY CONTACTS FOR THIS PROJECT SHALL BE AS FOLLOWS:

 POWER:
 TELEPHONE:

 TBD
 TBD

 :
 :

 CONTACT NAME
 CONTACT NAME

CONTACT NUMBER CONTACT NUMBER

**UTILITIES NOTES** 

## **ELECTRICAL SPECIFICATIONS**



SACRAMENTO, CA 95821

GRANLIBAKKEN TAHOE FA NO. 15332991

> 725 GRANLIBAKKEN RD., TAHOE CITY, CA 96145



6800 KOLL CENTER PARKWAY, SUITE 225
PLEASANTON, CA 94566
TEL: (925) 468–0115 FAX: (925) 468–0355

REV. DATE DESCRIPTION BY CHK

1 5/25/21 ISSUED FOR REVIEW JK

...

3

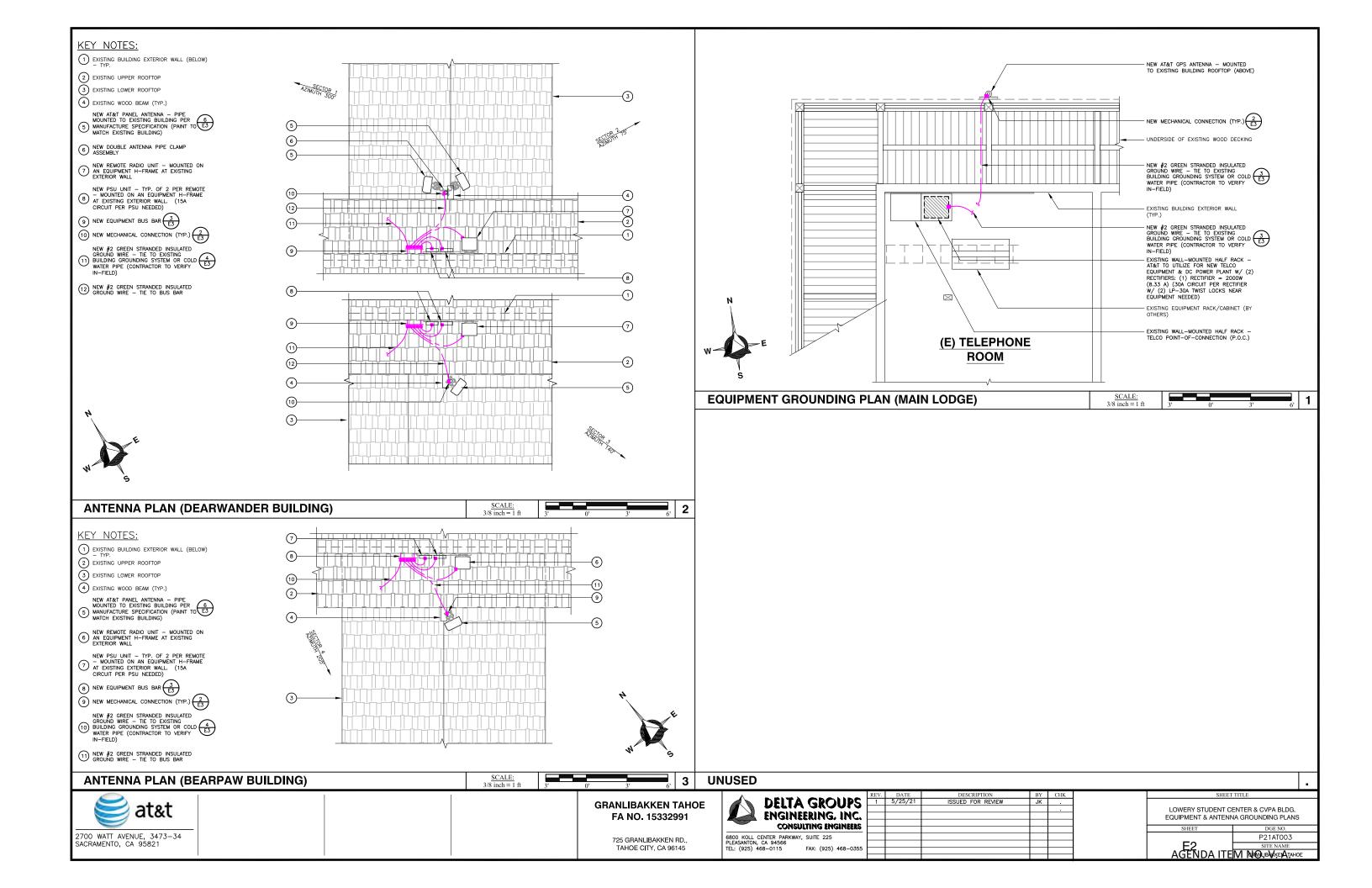
SHEET TITLE

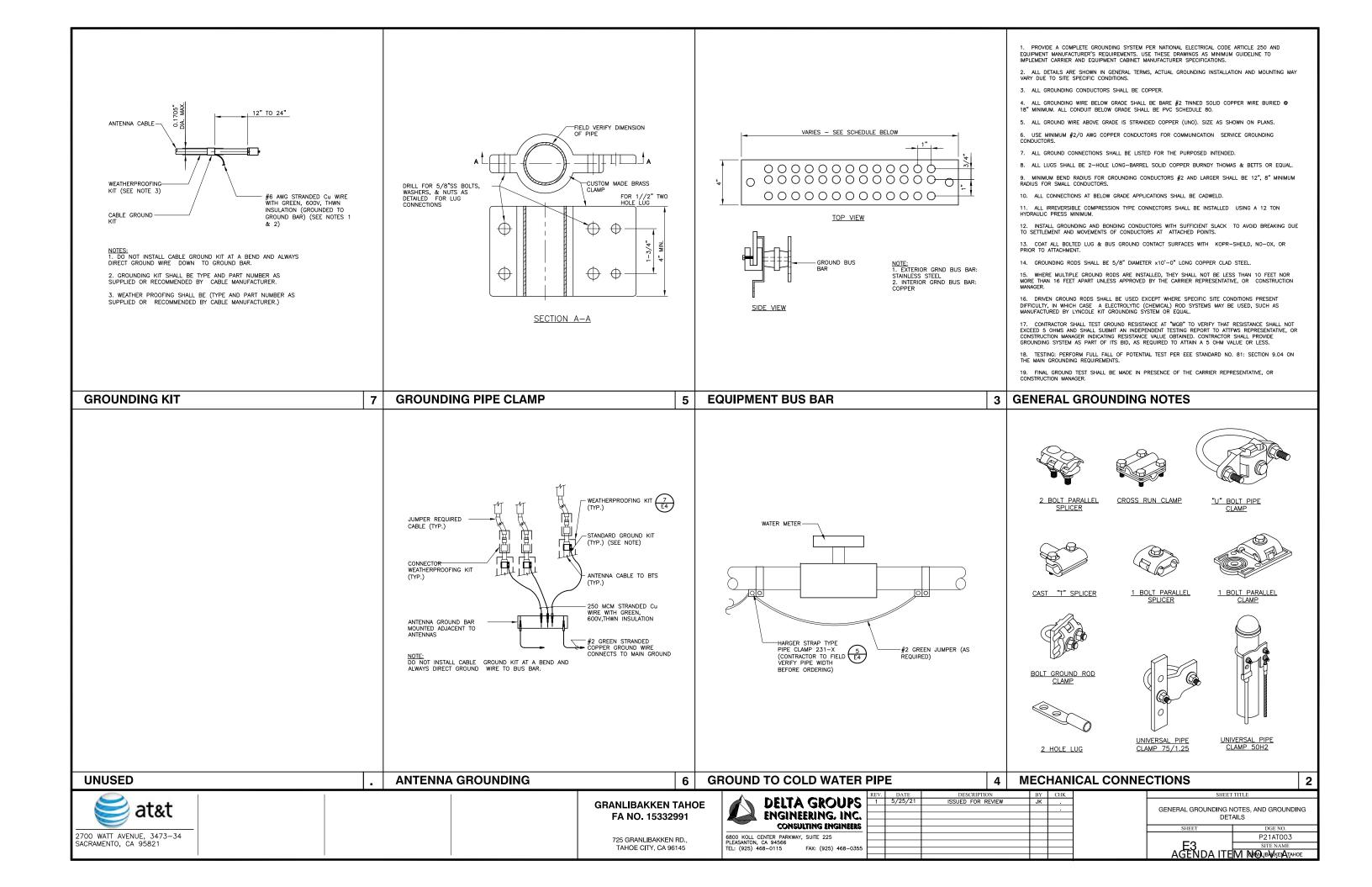
ELECTRICAL & TELEPHONE SPECIFICATIONS & UTILITIES NOTES

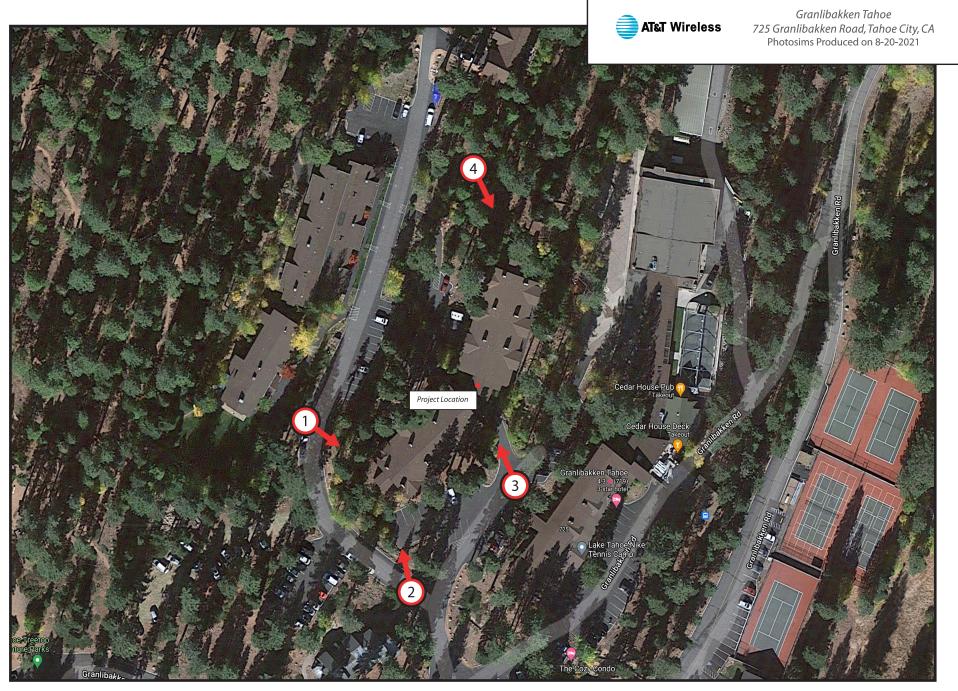
SHEET DGE NO.
P21AT003
SITE NAME

AGENDA ITEM NORWEATAHOE

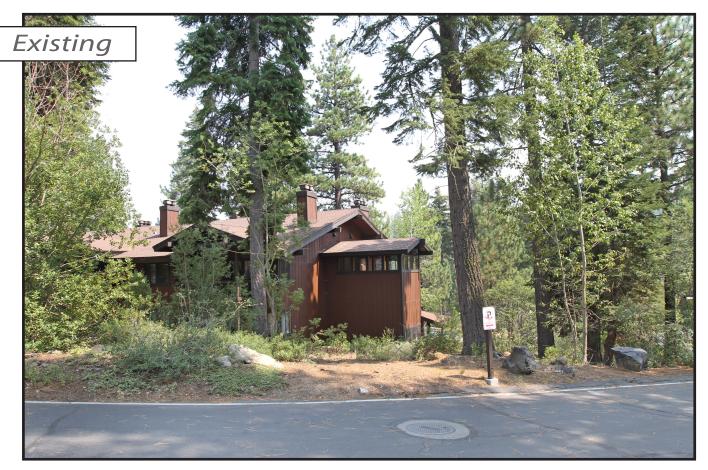
2

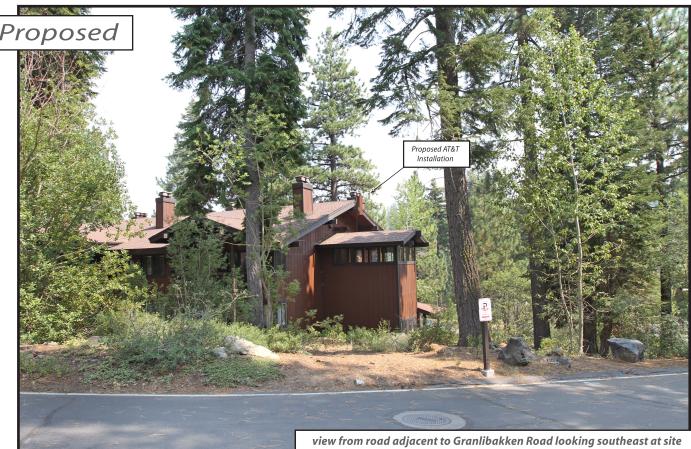














Granlibakken Tahoe 725 Granlibakken Road, Tahoe City, CA Photos**AGENDAe∤TŒN∮AN**QQ**ZV.A.** 

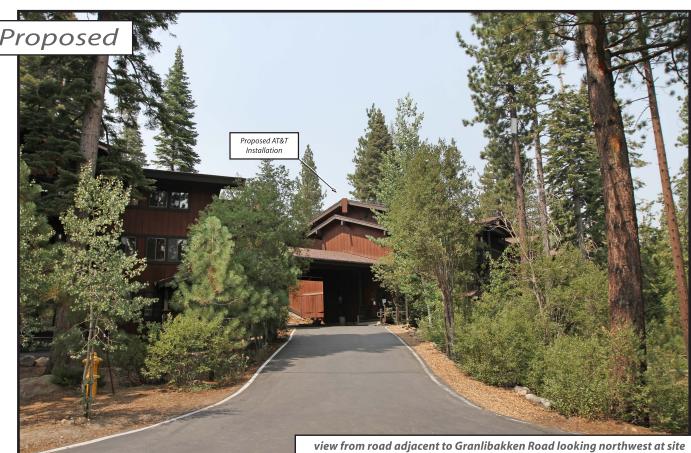






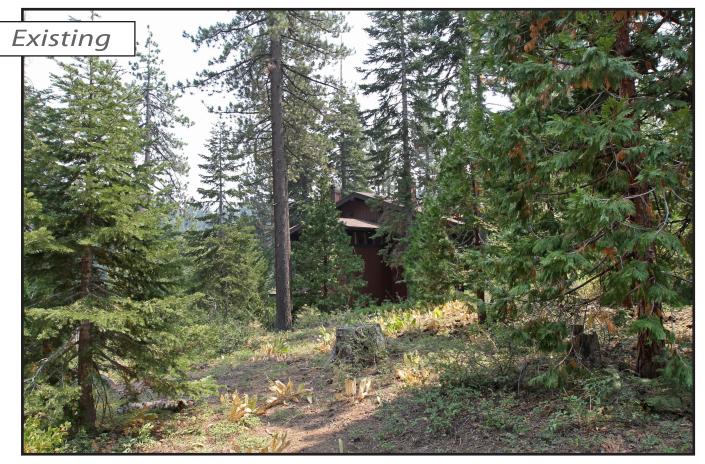
Granlibakken Tahoe 725 Granlibakken Road, Tahoe City, CA Photos**AGENDAeITŒNIAN** (22**V. A.** 







Granlibakken Tahoe 725 Granlibakken Road, Tahoe City, CA Photos**AGENDAeITŒNIAN** (22**V. A.** 







Granlibakken Tahoe 725 Granlibakken Road, Tahoe City, CA Photos**AGENDAeITŒNIAN** (22**V. A.**