COUNTY OF SAN MATEO
PLANNING AND BUILDING DEPARTMENT

DATE: March 17, 2022

TO: Zoning Hearing Officer

FROM: Planning Staff

SUBJECT: Consideration of a Use Permit Renewal and Amendment, pursuant to Sections 6405, 6500, and 6512.6 of the San Mateo County Zoning Regulations, to allow the continued operation of an existing cellular facility, and to modify the facility to include the following scope of work: Remove and replace four (4) existing antennas, install one (1) new collar mount, install two (2) new antennas on new collar mount, remove two (2) existing remote radio units from the equipment area, install four (4) new remote radio units, install two (2) new diplexers, install one (1) new surge arrestor, install two (2) new power cables and one (1) new fiber cable, at the cellular communication facility located at 201 Polhemus Road in the unincorporated San Mateo area of San Mateo County.

County File Number: PLN 2008-00153 (AT&T Mobility/Odyssey School)

PROPOSAL

The applicant, proposes to continue the operation of an existing AT&T cellular communication facility located at 201 Polhemus Road, and modify the facility with the replacement of; four (4) existing antennas, two (2) per sector, the installation of one (1) new collar mount at 55'8 RAD center, the removal of two (2) existing RRUS-11 from the equipment area, the installation of two (2) RRUS 4449 at 64' RAD center, one (1) per sector, two (2) RRUS 4478 at 64' RAD center; one (1) per sector, the installation of two (2) twin diplexers at 64' RAD center, one (1) per sector, the installation of one (1) new DC6 surge arrestor at 55'8 RAD center, the installation of two (2) No.6 AWG power cables and one (1) 1/4 fiber cable to surge arrestor at antennas, the installation of new power trunks to fully load existing DC 12 at the equipment area, and, the installation of antenna socks.

RECOMMENDATION

That the Zoning Hearing Officer approve the Use Permit Renewal, County File Number PLN 2008-00153, by making the required findings and adopting the conditions of approval listed in Attachment A.

BACKGROUND

Report Prepared By: Tiare Peña, Project Planner; Tpena@smcgov.org, Telephone 650/363-1850

Applicant: AT&T Mobility

Owner: Odyssey School

Location: 201 Polhemus Road, San Mateo

APN(s): 038-131-020

Size: 3.182 acres

Existing Zoning: RM (Resource Management)

General Plan Designation: General Open Space

Existing Land Use: Private School

Flood Zone: FEMA Flood Insurance Rate Map designation indicates the parcel as Zone X, (area of minimal flooding); Community Panel No. 06081 C0165E effective date October 16, 2012.

Environmental Evaluation: The project is categorically exempt pursuant Section 15301, Class 1 of the California Environmental Quality Act (CEQA) Guidelines for the continued operation of existing public or private facilities involving no physical changes or expansion of use.

Setting: The project site is located on the eastern side of Polhemus Road directly opposite the intersection with Crystal Springs Road. The adjacent land uses consist of single-family dwellings and open space. The subject parcel is a gently to steeply sloping, irregularly shaped parcel located near the bottom of a steep canyon hillside. The site is developed with a single-story 3,756 sq. ft. building, which is currently used for the operation of a private middle school. An asphalt driveway provides access into the parcel and to a small parking area uphill and to the south of the school building.

Chronology:

Date		Action
May 8, 2008	-	Application received for a Resource Management Permit and Use Permit to allow the installation of a 73-foot monopine with associated equipment cabinets at the existing private middle school.
August 22, 2008	-	Notice of a public workshop to review issues and take comments was mailed to property owners within a 300-foot radius of subject property.
December 19, 2008	-	Zoning Hearing Officer (ZHO) approves the Use Permit subject to conditions of approval.
January 5, 2009		Staff receives appeal to reverse the ZHO approval.
April 22, 2009		Planning Commission approved the project and upheld the ZHO decision to approve the Resource Management Permit and Use Permit.
June 26, 2013		Minor modification approved for the removal of a third arm and to allow the extension of 2 arms and adding a new antenna to each sector and the installation of 2 new cabinets within the existing fenced area.
October 18, 2022		Received application for Use Permit renewal and Amendment, PLN2008-00153.
March 17, 2022		Zoning Hearing Officer hearing for AT&T Use Permit Renewal and Amendment, PLN2008-00153.

DISCUSSION

A. KEY ISSUES

1. Conformance with the General Plan

The project continues to conform with the applicable General Plan policies for Soil Resources and Visual Quality as no major physical changes to the existing permitted facility are proposed. Conditions of approval requiring maintenance of the monopine and the equipment cabinets housed below the monopine and within the 7-foot redwood fenced area remain in place.

2. Conformance with Zoning Regulations

Under the provisions of Section 6500 (Use Permits) wireless communication facilities are permitted within the Resource Management District (RM) Zoning District with the issuance a Use Permit. This facility seeks to continue operating with minor physical changes proposed to the lease area or equipment.

The facility continues to comply to the Resource Management Zoning District Development Standards. Subject to securing a Use Permit, Section 6405 of the Zoning Regulations allow towers to be built and used to a greater height than the limit established for the district in which the building or structure is located provided the tower does not account for 15% of lot coverage, or a base area greater than 1,600 sq. ft. Further, the tower does not exceed the maximum height of 150 feet. The monopine accounts for 1.4 percent lot coverage with the base area of 291 sq. ft. with the monopine at a height of 73 feet. No changes are proposed.

Development Standard	Required	Constructed
Front Yard Setback	50 feet	50 feet
Side Yard Setback	20 feet	20 feet
Rear Yard Setback	20 feet	320 feet
Maximum Building Height	36 feet	73 feet*
**As allowed by Use Permit Provisions in Section 6405 of the San Mateo County Zoning Regulations discussed above.*		

3. Conformance with Wireless Telecommunication Facilities Ordinance

Staff has determined that the project complies with the applicable standards of the Wireless Telecommunication Facilities (WTF) Ordinance, as discussed below.

a. *Development and Design Standards*

Section 6512.2.E – G seeks to minimize and mitigate visual impacts from public views by designing facilities to blend in with the surrounding environment. When first proposed, the facility was designed to minimize such impacts by designing the monopine to blend with the existing vegetation. The radio antennas were installed at a height of 63 feet and masked by a membrane material to mimic pine needle like foliage.

Section 6512.2.H and I, require facilities to comply with all requirements of the underlying zoning district; except for the allowance that towers can exceed the height limit for the zoning district provided

in no case shall any tower exceed 150 feet. In this case, the tower is 73 feet in height.

No major physical changes are proposed to the existing permitted facility, excepting the removal and replacement of the existing antennas, no changes are proposed to the monopine or the equipment cabinets.

b. *Performance Standards*

The project meets the required performance standards of Section 6512.3 for lighting, licensing, provision of permanent power source, timely removal of the facilities, and visual resource protection. No major changes to the facility are proposed, the facility operates under licenses issued from both the Federal Communications Commission (FCC) and the California Public Utilities Commission (CPUC). Conditions of approval require continued maintenance of and removal of the facility when it is no longer in operation.

c. *Application Materials*

Section 6512.5.B (10) requires projects that are capable of accommodating additional facilities provide a ten-year buildout plan.

When the project was originally approved, a finding was made that co-location at this site would be problematic as each facility would require additional cabinets in the immediate vicinity of the utility pole. This would require placement within the right-of-way making them directly viewable.

d. *Use Permit Term, Renewal and Expiration*

Section 6512.6 allows an applicant to file for a renewal of the Use Permit and pay the applicable renewal application fees 6 months prior to expiration with the County Planning and Building Department.

The applicant is renewing the Use Permit – Planning case number PLN 2008-00153 (AT&T) with minor physical changes proposed.

B. FINDINGS

Conformance with Use Permit Findings

1. Under the provisions of Section 6500 (*Use Permits*), wireless communications facilities are permitted in the RM (Resource Management) District after issuance of a Use Permit. In order for the Zoning Hearing

Officer to approve the use permit and amendment, the following findings must be made:

a. **That the establishment, maintenance and/or conducting of the use will not, under the circumstances of the particular case, result in significant adverse impact to coastal resources or be detrimental to the public welfare or injurious to property or improvements in said neighborhood.**

The project is not located in the Coastal Zone, therefore, there are no impacts to coastal resources. The Radio Frequency Emissions Compliance Report prepared by Waterford Consulting (Attachment F) for AT&T concluded that the proposed modifications will be compliant with Radio Frequency Radiation Exposure Limits at 6.54 percent of the Federal Communications Commission Population limits, therefore, it will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings. Further, planning staff has reviewed the project file, and previous conditions of approval and finds no records concerning non-compliance with Planning Department conditions of approval or issues from neighboring parcels in the vicinity. Therefore, this finding can be made.

b. **That the proposed project is necessary for the public health, safety, convenience or welfare of the community.**

The Federal Communications Commission (FCC) has established that radio telecommunications and mobile and wireless telephone facilities directly serve national interests and indirectly benefit the public. The amendment of this Use Permit as proposed, will replace outdated 4G LTE technology to 5G service. This system provides private and public users the benefit of facilitating communication between mobile units and the existing wire-developed telephone system, as well as processing a greater quantity of calls more efficiently. The project use continues to qualify as serving the public interest and is considered necessary for public health, safety, convenience, and welfare. Therefore, this finding can be made.

2. <u>Conformance with Conditions of the Last Approval</u>

This Use Permit was approved by the San Mateo County Planning Commission on April 22, 2009, at which time, fifteen (15) conditions of approval were placed on the project. These conditions are assessed below with regard to compliance and whether they should be retained, modified or are no longer applicable.

Planning Division

1. **This approval applies only to the proposal, documents and plans described in this report and submitted for approval by the Planning Commission on April 22, 2009. Minor revisions or modifications to the project may be approved by the Planning Director if they are consistent with the intent of and in substantial conformance with this approval.**

   Compliance with condition? Yes.

   Recommend to retain condition? Yes, but the condition should be modified as follows. This approval applies only to the proposal, documents and plans described in this report and submitted to the Zoning Hearing Officer on March 17, 2022.

2. **The Use Permit shall be valid for a period of ten years following the date of final approval. The applicant shall apply for renewal of the use permit and pay applicable renewal fees six months prior to expiration.**

   Compliance with condition ? Yes.

   *Recommend to retain Condition? Y*es, however, modified as follows: The Use Permit shall be valid for a period of ten years and will expire on March 17, 2033. The applicant shall apply for renewal of the use permit and pay applicable renewal fees six months prior to expiration.

3. **Any change in use shall require an amendment to the Use Permit. Amendment to this use permit requires an application for amendment, payment of applicable fees, and consideration at a public hearing.**

   Compliance with condition? Yes.

   Recommend to retain condition? Yes.

4. **The applicant shall receive and maintain approval from the Federal Communications Commission (FCC) and California Public Utility Commission (CPUC) concerning the operation of the project at this site. Upon receipt of each of these approvals, the applicant shall supply the Planning Department with proof of approval. If these approvals are revoked, the applicant shall inform the Planning Department of the revocation.**

   Compliance with condition? Yes.

Recommend to retain condition? Yes.

5. **Any changes in use or intensity of use shall require an amendment to the Use Permit. Amendment to this Use Permit shall require compliance with all application, fee payment, and public hearing requirements.**

   Compliance with condition? Yes.

   Recommend to retain condition? Yes.

6. **This installation shall be removed in its entirety at that time when this technology or this facility is no longer needed. Applicant shall notify the Current Planning Section within 30 days if it ceases to use the facility.**

   Compliance with condition? Yes

   Recommend to retain condition? Yes

7. **The applicant shall apply for and be issued a building permit prior to the start of construction and develop in accordance with the approved plans as well as install all structures to current building codes.**

   Compliance with condition? Yes.

   Recommend to retain condition? Yes.

8. **Noise sources associated with demolition, construction, repair, remodeling, or grading of any real property shall be limited to the hours from 7:00 a.m. to 6:00 p.m. weekdays and 9:00 a.m. to 5:00 p.m. Saturdays. Said activities are prohibited on Sundays, Thanksgiving and Christmas (San Mateo County Ordinance Code Section 4.88.360).**

   Compliance with condition? Yes.

   Recommend to retain condition? Yes.

9. **Prior to the issuance of a building permit, the applicant shall submit to the Planning Department for review and approval a stormwater management plan, which shows how transport and discharge of pollutants from the project site will be minimized. The goal is to prevent soil sediment and other pollutants from entering local drainage systems and water bodies, and to protect**

all exposed earth surfaces from erosive forces. Said plan shall adhere to the San Mateo Countywide Stormwater Pollution Prevention Program "General Construction and Site Supervision Guidelines."

Compliance with condition? Yes.

Recommend to retain condition? Yes.

10. **All new utility lines to the proposed project shall be installed underground. Prior to the issuance of a building permit, the applicant shall submit a plan, for review and approval by the Community Development Director, which shows the location for all new underground utility lines from the nearest existing pole to the new antennas and equipment.**

    Compliance with condition? Yes.

    Recommend to retain condition? Yes.

11. **The applicant shall submit color samples for all the equipment. The panel antennas shall be a silver-grey color to blend with the existing PG&E tower. The chain link fence around the equipment area shall be black vinyl coated with dark green slats. All equipment that is possible to be painted shall be painted a dark green to match the landscaping. The Planning Division shall confirm that all project elements have been painted the approved colors prior to final building inspection.**

    Compliance with condition? Yes.

    Recommend to retain condition? Yes.

12. **A building inspector will check the approved colors in the field prior to a final on the building permit.**

    Compliance with condition? Yes.

    Recommend to retain condition? Yes.

13. **The applicant shall submit a landscape plan in accordance with the San Mateo County Guidelines, which demonstrates how the visual impacts from the proposed cellular facility will be reduced. The plan shall indicate the type, location and size of all proposed landscaping as well as the method for irrigation. No trees shall be removed without the issuance of a tree removal permit.**

Compliance with condition? Yes.

Recommend to retain condition? No, this condition is no longer applicable.

14. **The approved landscaping shall be installed and confirmed by the Planning Department prior the final building inspection.**

    Recommend to retain condition? No, as the landscaping has been installed, this condition is no longer applicable.

15. **The landscape screening shall be maintained by the applicant. All landscaping that does not survive shall be replaced per the approved landscape plan.**

    Compliance with condition? Yes.

    Recommend to retain condition? Yes

16. **A building permit will be required for the installation of the cellular facility.**

    Compliance with condition? Yes.

    Recommend to retain condition? Yes, but modified as follows, a building permit will be required for the modifications as proposed.

17. **The installation of a Knox Lock or Box for fire department access is required.**

    Compliance with condition? Yes

    Recommend to retain condition? Yes

C. ENVIRONMENTAL REVIEW

This project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15301, Class 1, relating to existing facilities

D. REVIEWING AGENCIES

Reviewing Agency	Approve	Conditions of Approval
Building Inspection Section	Yes	Yes
Department of Public Works	Yes	None
County Fire	Yes	Yes

ATTACHMENTS

A. Recommended Findings and Conditions of Approval
B. Location/Parcel Map
C. Plans
D. Photo Simulations
E. RF Report

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Attachment A

County of San Mateo
Planning and Building Department

RECOMMENDED FINDINGS AND CONDITIONS OF APPROVAL

Permit or Project File Number: PLN 2008-00153 Hearing Date: March 17, 2022

Prepared By: Tiare Peña, Project Planner For Adoption By: Zoning Hearing

RECOMMENDED FINDINGS

For the Environmental Review, Find:

1. That this project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15301, Class 1, relating to existing facilities.

Regarding the Use Permit Renewal and Amendment, Find:

2. That the establishment, maintenance and/or conducting of the use will not, under the circumstances of the particular case, result in significant adverse impact to coastal resources or be detrimental to the public welfare or injurious to property or improvements in said neighborhood because the facility as confirmed by the RF report submitted by Waterford Consultants. LLC meets current Federal Communication Commission (FCC) standards and has been conditioned to maintain valid FCC and California Public Utilities Commission (CPUC) licenses. The facility has been in operation since 2000 with no records of non-compliance or neighbor complaints.

3. That the granting of the use permit renewal to allow the continued operation of this telecommunications facility is necessary for public health, safety, convenience, or welfare. This facility contributes to enhance the wireless network for increased clarity, range, and system capacity; and therefore, is a benefit to both public and private users.

RECOMMENDED CONDITIONS OF APPROVAL

Current Planning Section

1. This approval applies only to the proposal, documents and plans described in this report and submitted for approval by the Zoning Hearing Officer on March 17, 2022. Minor revisions or modifications to the project may be approved by the

Community Development Director if they are consistent with the intent of and in substantial conformance with this approval.

2. The Use Permit shall be valid for a period of ten years and will expire on March 17, 2033. The applicant shall apply for renewal of the use permit and pay applicable renewal fees six months prior to expiration.

3. Significant changes in use or intensity shall require an amendment to the Use Permit. Amendment to this Use Permit requires an application for amendment, payment of applicable fees, and consideration at a public hearing.

4. This approved installation is to be dismantled and removed in its entirety from the property at that time when this technology becomes obsolete or this facility is no longer needed.

5. The landscape screening shall be maintained by the applicant. Any landscaping that does not survive shall be replaced per the approved landscape plan.

6. The applicant shall apply for and be issued a building permit prior to the start of construction and develop in accordance with the approved plans as well as install all structures to current building codes.

7. The applicant shall not enter into a contract with the landowner or lessee which reserves for one company exclusive use of the tower structure or the site for telecommunication facilities.

8. If a less visually obtrusive/reduced antenna technology becomes available for use during the life of this project, the applicant shall present a redesign incorporating this technology into the project for review by the Community Development Director and any parties that have expressed an interest.

9. This facility and all equipment associated with it shall be removed in its entirety by the applicant within ninety (90) days if the FCC license and registration are revoked or if the facility is abandoned or no longer needed. The owner and/or operator of the facility shall notify the Planning Department upon abandonment of the facility.

10. There shall be no external lighting associated with this use, Wireless telecommunication facilities shall not be lighted or marked unless required by the FCC or Federal Aviation Administration (FAA).

11. Noise sources associated with demolition, construction, repair, remodeling, or grading of any real property shall be limited to the hours from 7:00 a.m. to 6:00 p.m. weekdays and 9:00 a.m. to 5:00 p.m. Saturdays. Said activities are prohibited on Sundays, Thanksgiving and Christmas (San Mateo County Ordinance Code Section 4.88.360.

County Fire

12. The applicant shall provide an appropriate Knox Box for access.

Building Inspection Section

13. A building permit is required for all construction.

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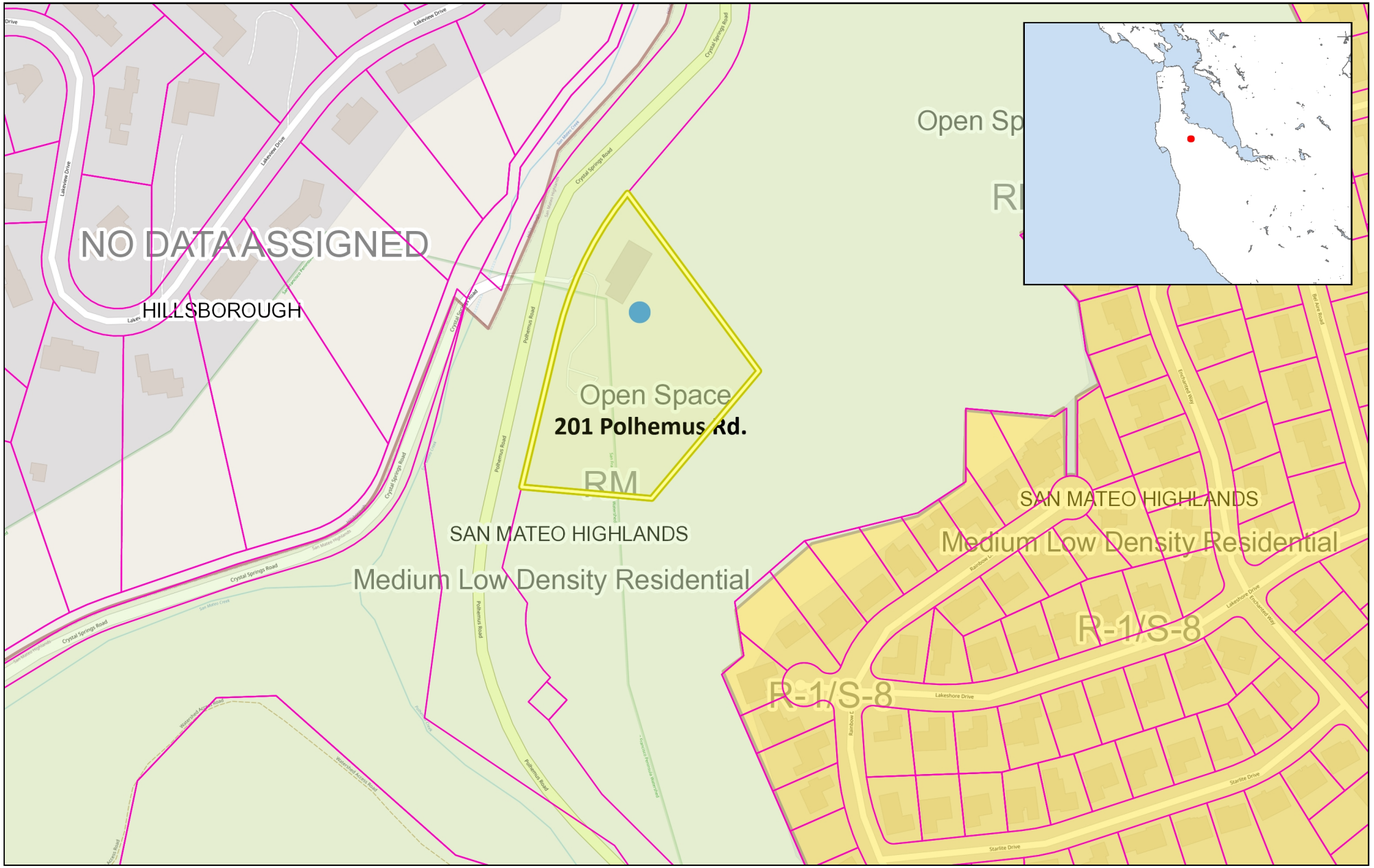
COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

ATTACHMENT B

San Mateo County

Odyssey School - AT&T Mobility



0.12 0 0.06 0.12 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

1: 3,647

COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

ATTACHMENT C

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA BUILDING STANDARDS CODE: 2019 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2020.
   PART 1 - CALIFORNIA ADMINISTRATIVE CODE
   PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE
   PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE
   PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE
   PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE
   PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE
   PART 6 - CALIFORNIA ENERGY CODE
   PART 7 - VACANT
   PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
   PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
   PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
   PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
   PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
2. ANSI/TIA-222 (REV H)
3. 2018 NFPA 101, LIFE SAFETY CODE
4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
5. 2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

PROJECT TEAM

APPLICANT / LESSEE:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
CONTACT: ROSALIND T. DUNCAN
South Bay Project Manager
EMAIL: rr6459@att.com
PH: (925) 968-8179

PROJECT MANAGER, LEASING & ZONING:

J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONTACT: CHARLES OTIS
EMAIL: cotis@j5ip.com
PH: (805) 680-5453

CONSTRUCTION MANAGER:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
CONTACT: PHUNG NGUYEN
Sr. Specialist-Tech
Vendor Management
Technology Operations
EMAIL: phung.nguyen@att.com
PH: (925) 277-6480
CELL: (408) 391-0786

A&E MANAGER:

J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
contact: JASON OFFINEER
email: joffineer@j5ip.com
ph: (619) 370-4859

RF ENGINEER:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
CONTACT: TARUN SETHI
RAN ENGINEER
EMAIL: ts458v@att.com
PH: (925) 457-5088

SITE INFORMATION

PROPERTY OWNER:
KAY McGOUGH
THE ODYSSEY SCHOOL
201 POLHEMUS ROAD
SAN MATEO, CA 94403

JURISDICTION:	SAN MATEO COUNTY
A.P.N.:	038-131-020
CURRENT ZONING:	RM
EXISTING USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
LATITUDE (NAD 83):	37.534386° 37° 32' 03.78" N
LONGITUDE (NAD 83):	-122.3492750° 122° 20' 57.39" W

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CBC2019, SECTION 11B-203.4 (LIMITED ACCESS SPACE)

POWER AGENCY:
PG&E

TELEPHONE AGENCY:
AT&T

RFDS VERSION: 1.00
DATE: 05/25/21

AT&T

USID: 110238
FA#: 10122806
5G NR 1SR CBAND
PTN#: 3701A0YPJ0
PACE#: MRSFR079532
4TXRX ANTENNA RETROFIT
PTN#: 3701A0YP42
PACE#: MRSFR079593
5G NR 1DR-2
PTN#: 3701A0YPJE
PACE#: MRSFR079596
LTE 4C
PTN#: 3701A0YNXA
PACE#: MRSFR079600

SITE NUMBER: CCL05678
SITE NAME: HILLSBOROUGH - ODESSEY SCHOOL
SITE TYPE: MONOPINE / OUTDOOR EQUIPMENT
ADDRESS: 201 POLHEMUS RD SAN MATEO, CA 94402

VICINITY MAP

LOCAL MAP

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES AND MODIFICATIONS.

DISCIPLINE:	SIGNATURE	DATE
RF ENGINEER:		
AT&T PM:		
CIVIL:		
A&E:		
SAQ PM:		
PROPERTY OWNER:		

PROJECT DESCRIPTION

MODIFICATION TO AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

- REMOVE AND REPLACE (4) EXISTING ANTENNAS (TYP. 2 PER SECTOR)
- INSTALL (1) NEW COLLAR MOUNT AT 55'-8" RAD
- INSTALL (2) NEW AIR6449 ANTENNAS ON NEW COLLAR MOUNT (TYP. 1 PER SECTOR)
- REMOVE (2) EXISTING RRUS-11 FROM EQUIPMENT AREA
- INSTALL (2) RRU 4449 AT 64' RAD CENTER, 1 PER SECTOR
- INSTALL (2) RRU 4478 AT 64' RAD CENTER, 1 PER SECTOR
- INSTALL (2) TWIN DIPLEXER AT 64' RAD CENTER, 1 PER SECTOR
- INSTALL (1) NEW DC6 SURGE ARRESTOR AT 55'-8" RAD CENTER
- INSTALL (2) #6 AWG POWER CABLES AND (1) 1/4" FIBER CABLES TO SURGE ARRESTOR AT ANTENNAS.
- INSTALL NEW POWER TRUNKS TO FULLY LOAD EXISTING DC12 AT EQUIPMENT AREA
- INSTALL (3) ANTENNA SOCKS AS NEEDED BY JX

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE: 5001 EXECUTIVE PKWY, SAN RAMON CA 94583

1. TURN RIGHT ONTO SUNSET DR,
2. TURN RIGHT ONTO BOLLINGER CANYON RD
3. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE
4. MERGE ONTO I-680 S
5. TAKE EXIT 30B TO MERGE ONTO I-580 W TOWARD DUBLIN/OAKLAND
6. TAKE EXIT 36A FOR REDWOOD ROAD TOWARD CASTRO VALLEY
7. TURN LEFT ONTO REDWOOD RD
8. CONTINUE ONTO A ST
9. STAY ON A ST
10. TURN LEFT ONTO MISSION BLVD
11. TURN SLIGHTLY RIGHT ONTO CA-92 W/JACKSON ST
12. TAKE EXIT 9B FOR DE ANZA BLVD TOWARD POLHEMUS RD
13. TURN RIGHT ONTO DE ANZA BLVD
14. TURN RIGHT ONTO POLHEMUS RD
15. TURN RIGHT ONTO CRYSTAL SPRINGS RD
16. DESTINATION WILL BE ON THE RIGHT

DIGALERT
800-227-2600
Call 2 Full Working Days In Advance

SHEET INDEX

PREPARED FOR
AT&T
5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:
J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
P-055019

AT&T Site ID:
CCL05678

REV	DATE	DESCRIPTION	INT.
2	06/04/21	EME REVISION	ES
1	05/25/21	REVISED RFDS	JF
0	05/10/21	100% CD	KV
A	05/03/21	90% CD	PS/MM

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CCL05678
HILLSBOROUGH - ODESSEY SCHOOL
201 POLHEMUS RD
SAN MATEO, CA 94402

Sheet Title:
TITLE SHEET

Sheet Number:
T-1

GENERAL CONSTRUCTION NOTES:

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. 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.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK 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 ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
13. 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) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

1. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
   - 3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - 3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, FIFTEENTH EDITION
   - 3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
   - 3.4. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
   - 3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
   - 3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
   - 3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
   - 3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
   - 3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
   - 3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
   - 3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
   - 3.12. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	FDN.	FOUNDATION	RGS.	RIGID GALVANIZED STEEL
ABV.	ABOVE	F.O.C.	FACE OF CONCRETE	SCH.	SCHEDULE
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.O.M.	FACE OF MASONRY	SHT.	SHEET
ADD'L	ADDITIONAL	F.O.S.	FACE OF STUD	SIM.	SIMILAR
A.F.F.	ABOVE FINISHED FLOOR	F.O.W.	FACE OF WALL	SPEC.	SPECIFICATIONS
A.F.G.	ABOVE FINISHED GRADE	F.S.	FINISH SURFACE	SQ.	SQUARE
ALUM.	ALUMINUM	FT.(')	FOOT (FEET)	S.S.	STAINLESS STEEL
ALT.	ALTERNATE	FTG.	FOOTING	STD.	STANDARD
ANT.	ANTENNA	G.	GROWTH (CABINET)	STL.	STEEL
APPRX.	APPROXIMATE(LY)	GA.	GAUGE	STRUC.	STRUCTURAL
ARCH.	ARCHITECT(URAL)	GI.	GALVANIZE(D)	TEMP.	TEMPORARY
AWG.	AMERICAN WIRE GAUGE	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	THK.	THICK(NESS)
BLDG.	BUILDING	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	T.N.	TOE NAIL
BLK.	BLOCK	GPS	GLOBAL POSITIONING SYSTEM	T.O.A.	TOP OF ANTENNA
BLKG.	BLOCKING	GRND.	GROUND	T.O.C.	TOP OF CURB
BM.	BEAM	HDR.	HEADER	T.O.F.	TOP OF FOUNDATION
B.N.	BOUNDARY NAILING	HGR.	HANGER	T.O.P.	TOP OF PLATE (PARAPET)
BTCW.	BARE TINNED COPPER WIRE	HT.	HEIGHT	T.O.S.	TOP OF STEEL
B.O.F.	BOTTOM OF FOOTING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.W.	TOP OF WALL
B/U	BACK-UP CABINET	IN. (")	INCH(ES)	TYP.	TYPICAL
CAB.	CABINET	INT.	INTERIOR	U.G.	UNDER GROUND
CANT.	CANTILEVER(ED)	LB.(#)	POUND(S)	U.L.	UNDERWRITERS LABORATORY
C.I.P.	CAST IN PLACE	L.B.	LAG BOLTS	U.N.O.	UNLESS NOTED OTHERWISE
CLG.	CEILING	L.F.	LINEAR FEET (FOOT)	V.I.F.	VERIFY IN FIELD
CLR.	CLEAR	L.	LONG(ITUDINAL)	W	WIDE (WIDTH)
COL.	COLUMN	MAS.	MASONRY	w/	WITH
CONC.	CONCRETE	MAX.	MAXIMUM	WD.	WOOD
CONN.	CONNECTION(OR)	M.B.	MACHINE BOLT	W.P.	WEATHERPROOF
CONST.	CONSTRUCTION	MECH.	MECHANICAL	WT.	WEIGHT
CONT.	CONTINUOUS	MFR.	MANUFACTURER	℄	CENTERLINE
d	PENNY (NAILS)	MIN.	MINIMUM	P.L.	PLATE, PROPERTY LINE
DBL.	DOUBLE	MISC.	MISCELLANEOUS		
DEPT.	DEPARTMENT	MTL.	METAL		
D.F.	DOUGLAS FIR	(N)	NEW		
DIA.	DIAMETER	NO.(#)	NUMBER		
DIAG.	DIAGONAL	N.T.S.	NOT TO SCALE		
DIM.	DIMENSION	O.C.	ON CENTER		
DWG.	DRAWING(S)	OPNG.	OPENING		
DWL.	DOWEL(S)	P	PROPOSED		
EA.	EACH	P/C	PRECAST CONCRETE		
EL.	ELEVATION	PCS	PERSONAL COMMUNICATION SERVICES		
ELEC.	ELECTRICAL	PLY.	PLYWOOD		
ELEV.	ELEVATOR	PPC	POWER PROTECTION CABINET		
EMT.	ELECTRICAL METALLIC TUBING	PRC	PRIMARY RADIO CABINET		
E.N.	EDGE NAIL	P.S.F.	POUNDS PER SQUARE FOOT		
ENG.	ENGINEER	P.S.I.	POUNDS PER SQUARE INCH		
EQ.	EQUAL	P.T.	PRESSURE TREATED		
EXP.	EXPANSION	PWR.	POWER (CABINET)		
EXST.(E)	EXISTING	QTY.	QUANTITY		
EXT.	EXTERIOR	RAD.(R)	RADIUS		
FAB.	FABRICATION(OR)	REF.	REFERENCE		
F.F.	FINISH FLOOR	REINF.	REINFORCEMENT(ING)		
F.G.	FINISH GRADE	REQ'D/	REQUIRED		
FIN.	FINISH(ED)				
FLR.	FLOOR				

SYMBOLS LEGEND:

BLDG. SECTION

WALL SECTION

DETAIL

ELEVATION

DOOR SYMBOL

WINDOW SYMBOL

TILT-UP PANEL MARK

PROPERTY LINE

CENTERLINE

ELEVATION DATUM

GRID/COLUMN LINE

KEYNOTE, DIMENSION ITEM

KEYNOTE, CONSTRUCTION ITEM

WALL TYPE MARK

ROOM NAME
ROOM NUMBER

GROUT OR PLASTER

(E) BRICK

(E) MASONRY

CONCRETE

EARTH

GRAVEL

PLYWOOD

SAND

PLYWOOD

SAND

(E) STEEL

MATCH LINE

GROUND CONDUCTOR

OVERHEAD SERVICE CONDUCTORS

TELEPHONE CONDUIT

POWER CONDUIT

COAXIAL CABLE

CHAIN LINK FENCE

WOOD FENCE

(P) ANTENNA

(P) RRU

(P) DC SURGE SUPPRESSION

(F) ANTENNA

(F) RRU

(E) EQUIPMENT

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

P-055019

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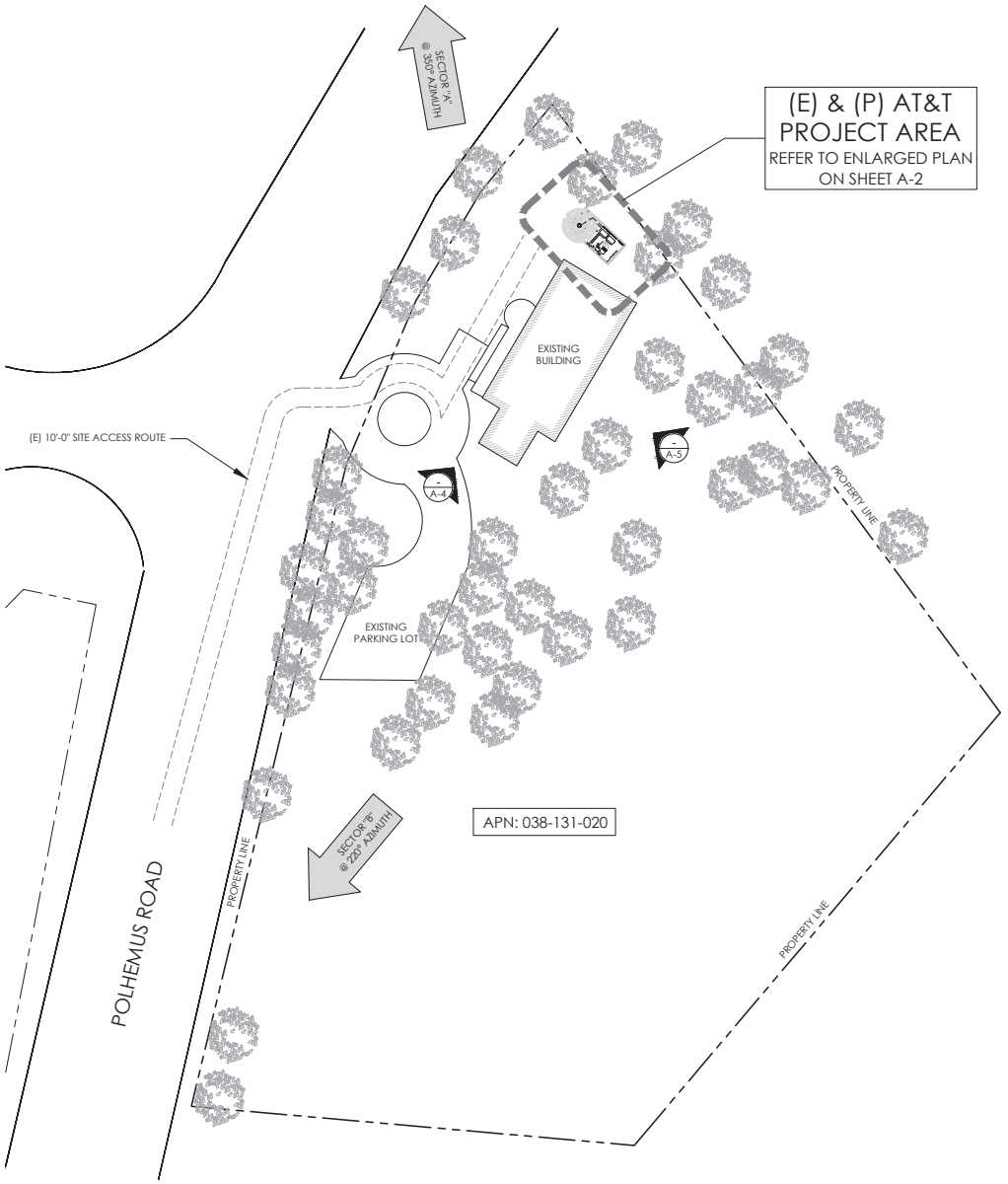
GENERAL NOTES

Sheet Number:

GN-1

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



1 OVERALL SITE PLAN

24"x36" SCALE: 1" = 30'-0"
11"x17" SCALE: 1" = 60'-0"

30' 15' 0" 30'

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It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

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OVERALL SITE PLAN

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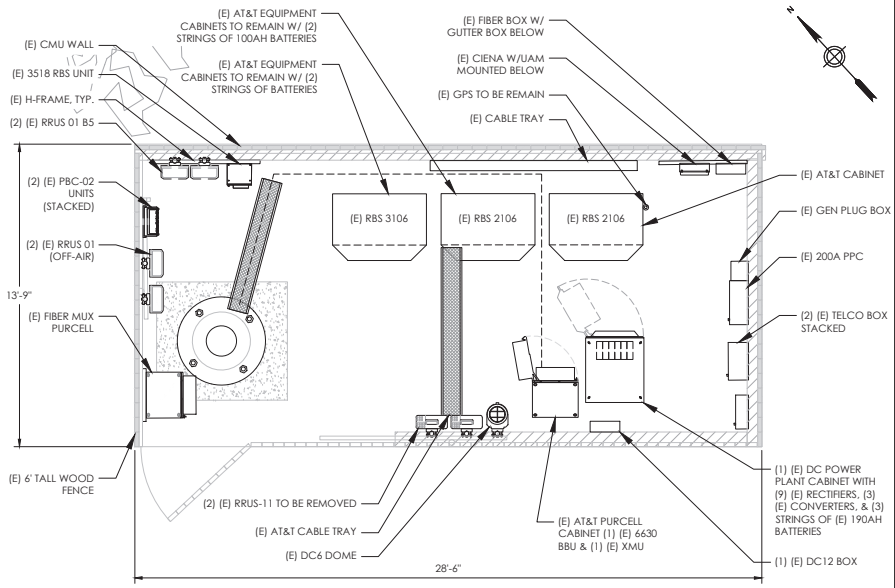
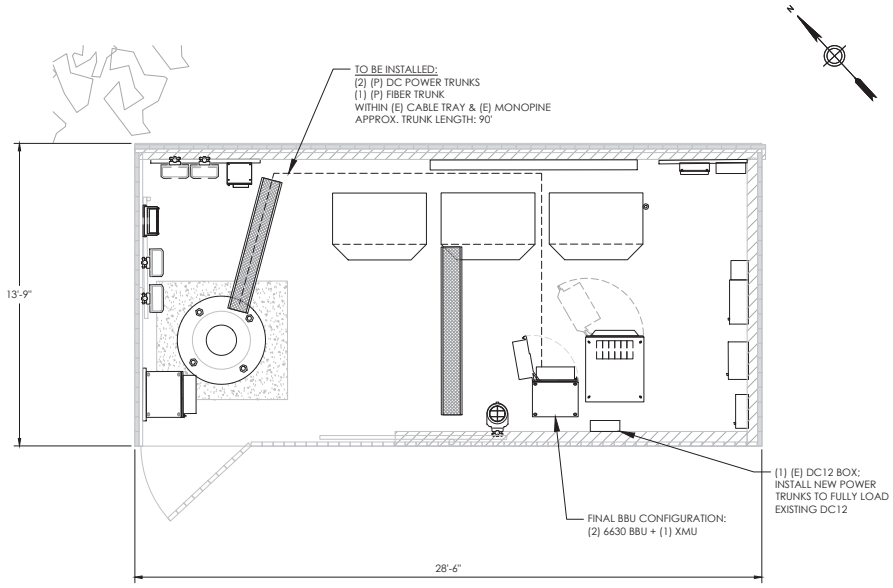
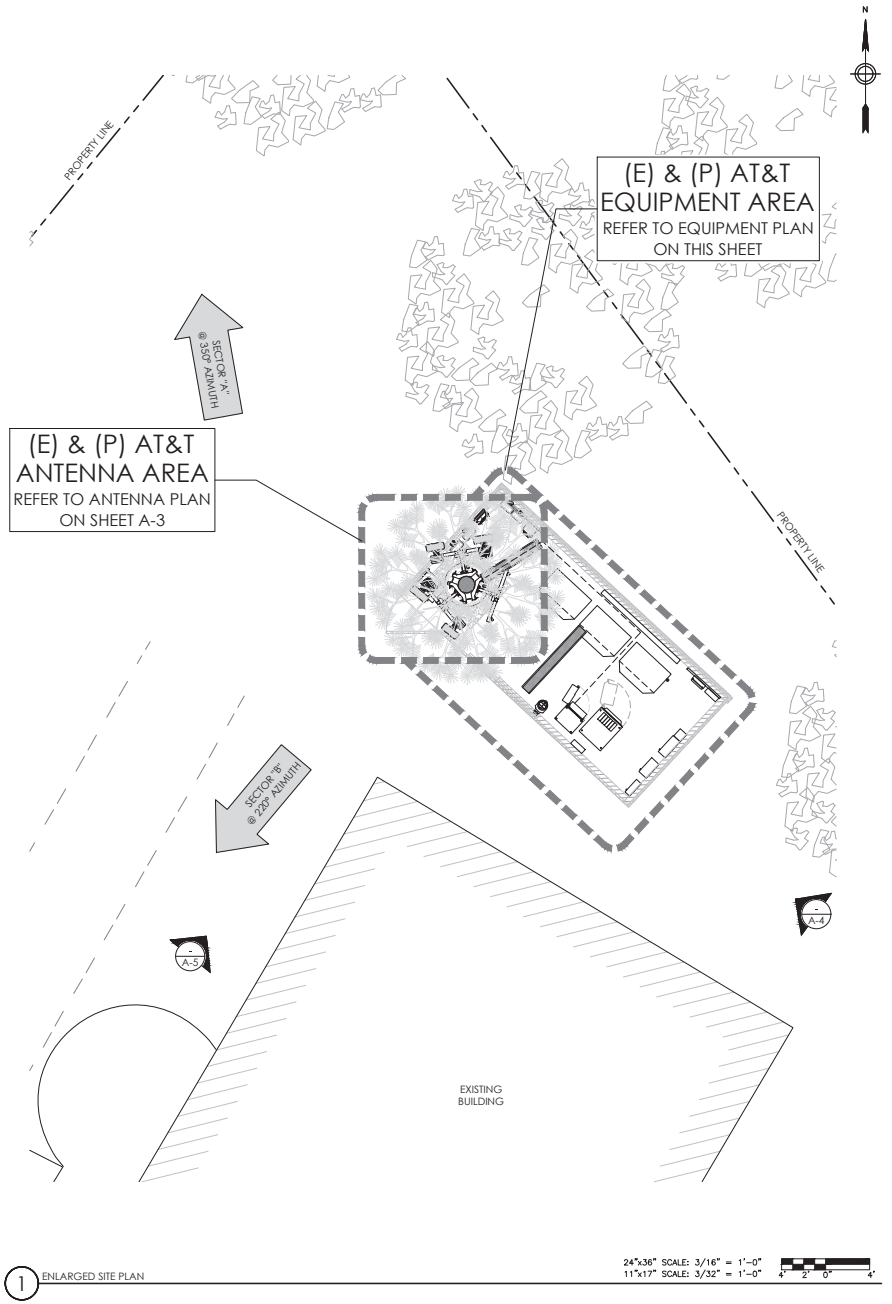
A-1



2 EXISTING EQUIPMENT PLAN



3 PROPOSED EQUIPMENT PLAN



1 ENLARGED SITE PLAN

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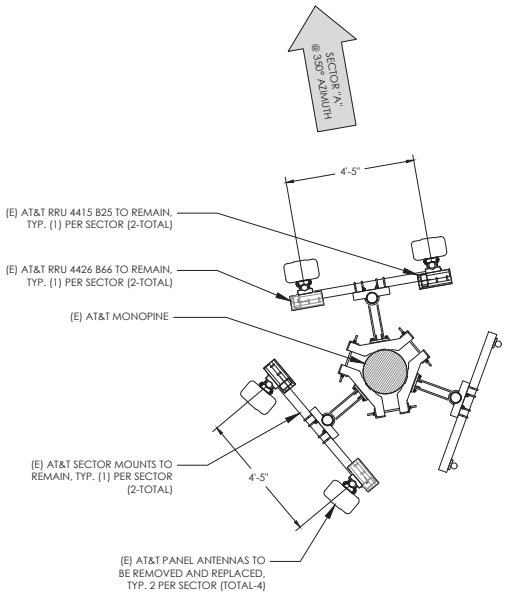
Sheet Title:

ENLARGED SITE PLAN & EQUIPMENT PLANS

Sheet Number:

A-2

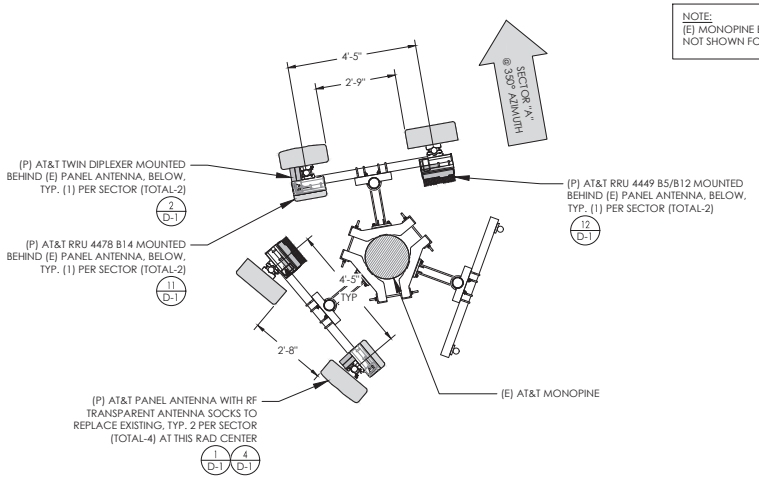


(E) ANTENNA RAD CENTER @ 64'-0"

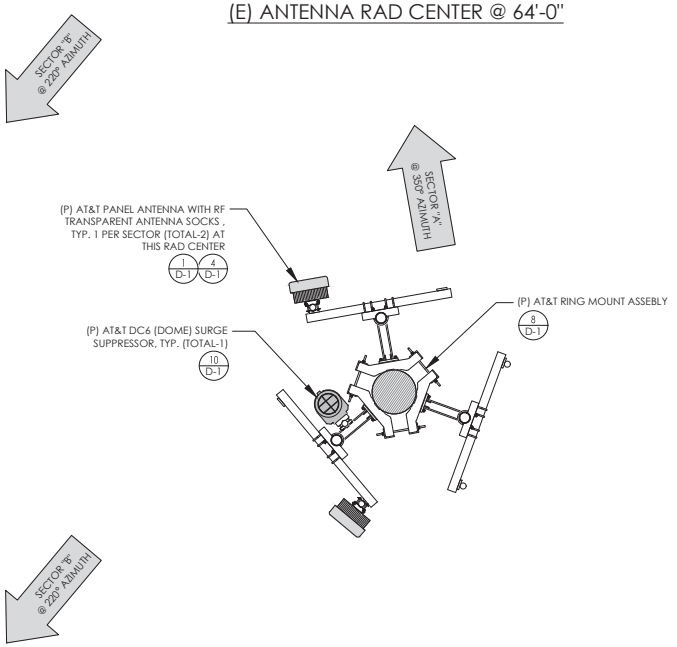
1 EXISTING ANTENNA PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"
2' 1' 0" 2'

NOTE:
(E) MONOPINE BRANCHES NOT SHOWN FOR CLARITY.



(E) ANTENNA RAD CENTER @ 64'-0"



(P) ANTENNA RAD CENTER @ 55'-8"

2 PROPOSED ANTENNA PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"
2' 1' 0" 2'

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Sheet Title:

EXISTING & PROPOSED ANTENNA PLANS

Sheet Number:

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NOTE:
(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

NOTES TO CONTRACTOR:
1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
3. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

Position	Antenna					RRU, TMA, Diplexer, Etc.				Additional Antenna Information				Line Information			
	Use Existing/ Swap/New	Type		Technology		Existing		Proposed		Azimuth		RAD Center		Coax Cables		Power/Fiber	
		Existing	Final	Existing	Final	Type	Location	Type	Location	Existing	Final	Existing	Final	Existing	Final	Existing	Final
ALPHA																	
1	SWAP	COMMSCOPE JAHH-65C-R3B-V3	CCI DMP65R-BU8DA-K	LTE 700 BC LTE 1900	LTE 700 BC, 5G 850 LTE 1900	RRUS 11 B12 RRU 4415 B25	BOTTOM TOP	RRU 4449 B5/B12 RRU 4415 B25	TOP TOP	350	350	64	64	(8) 7/8"	(8) 7/8"	(2) #8 AWG POWER TRUNK CABLES + (1) 1/4" DIA FIBER TRUNK CABLES	(2) #8 & (2) #6 AWG POWER TRUNK CABLES + (2) 1/4" DIA FIBER TRUNK CABLES
2	SWAP	COMMSCOPE JAHH-65C-R3B-V3	COMMSCOPE NNHH-65C-R4	UMTS 850 LTE AWS	LTE 700 FNET UMTS 850 LTE AWS	RRUS-01 B5 RRU 4426 B66	BOTTOM TOP	RRU 4478 B14 RRUS-01 B5 RRU 4426 B66	TOP BOTTOM TOP	350	350	64	64				
3	NEW	(NONE)	ERICSSON AIR 6449 N77	(NONE)	C-BAND 5G	(NONE)	N/A	(AIR 6449 N77)	(TOP)	N/A	350	N/A	55.7				
BETA																	
1	SWAP	COMMSCOPE JAHH-65C-R3B-V3	CCI DMP65R-BU8DA-K	LTE 700 BC LTE 1900	LTE 700 BC, 5G 850 LTE 1900	RRUS 11 B12 RRU 4415 B25	BOTTOM TOP	RRU 4449 B5/B12 RRU 4415 B25	TOP TOP	220	220	64	64	(8) 7/8"	(8) 7/8"		
2	SWAP	COMMSCOPE JAHH-65C-R3B-V3	COMMSCOPE NNHH-65C-R4	UMTS 850 LTE AWS	LTE 700 FNET UMTS 850 LTE AWS	RRUS-01 B5 RRU 4426 B66	BOTTOM TOP	RRU 4478 B14 RRUS-01 B5 RRU 4426 B66	TOP BOTTOM TOP	220	220	64	64				
3	NEW	(NONE)	ERICSSON AIR 6449 N77	(NONE)	C-BAND 5G	(NONE)	N/A	(AIR 6449 N77)	(TOP)	N/A	220	N/A	55.7				

1 PROPOSED RF SCHEDULE
N.T.S.

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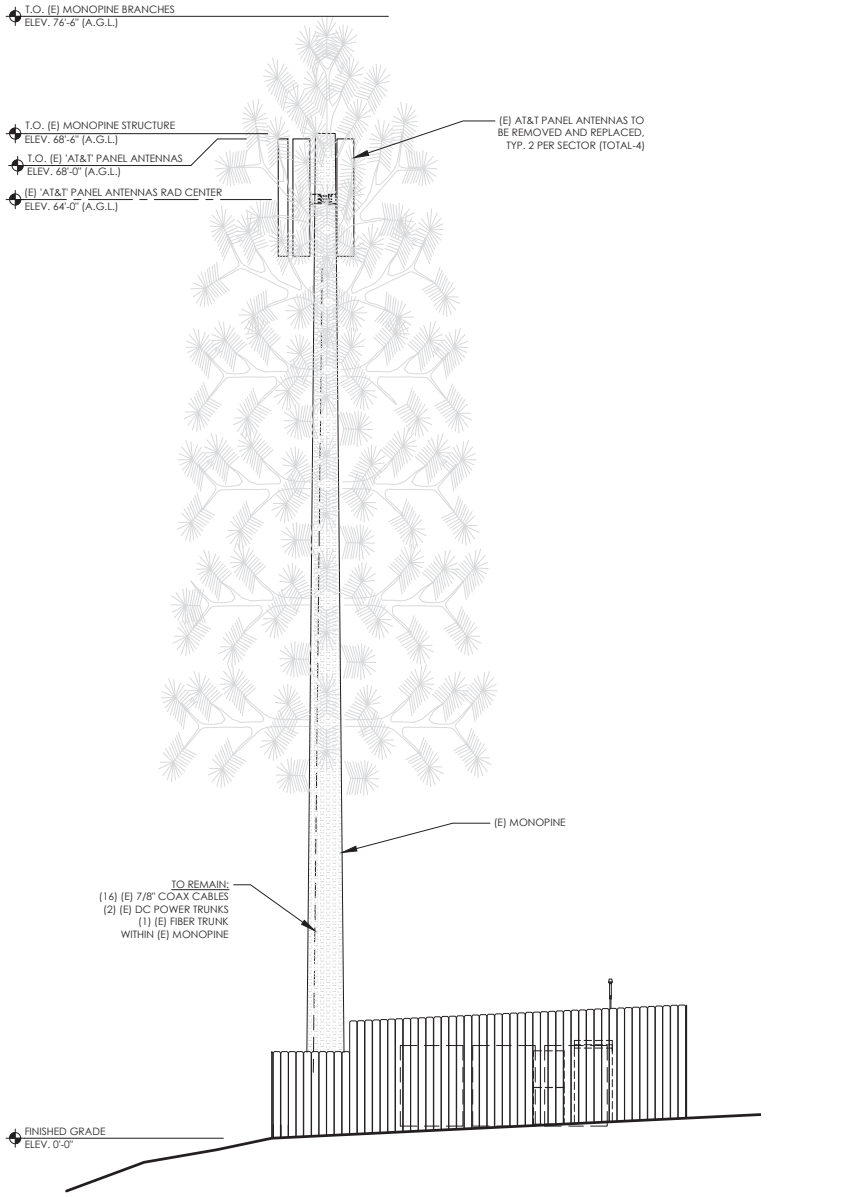
PROPOSED RF SCHEDULE

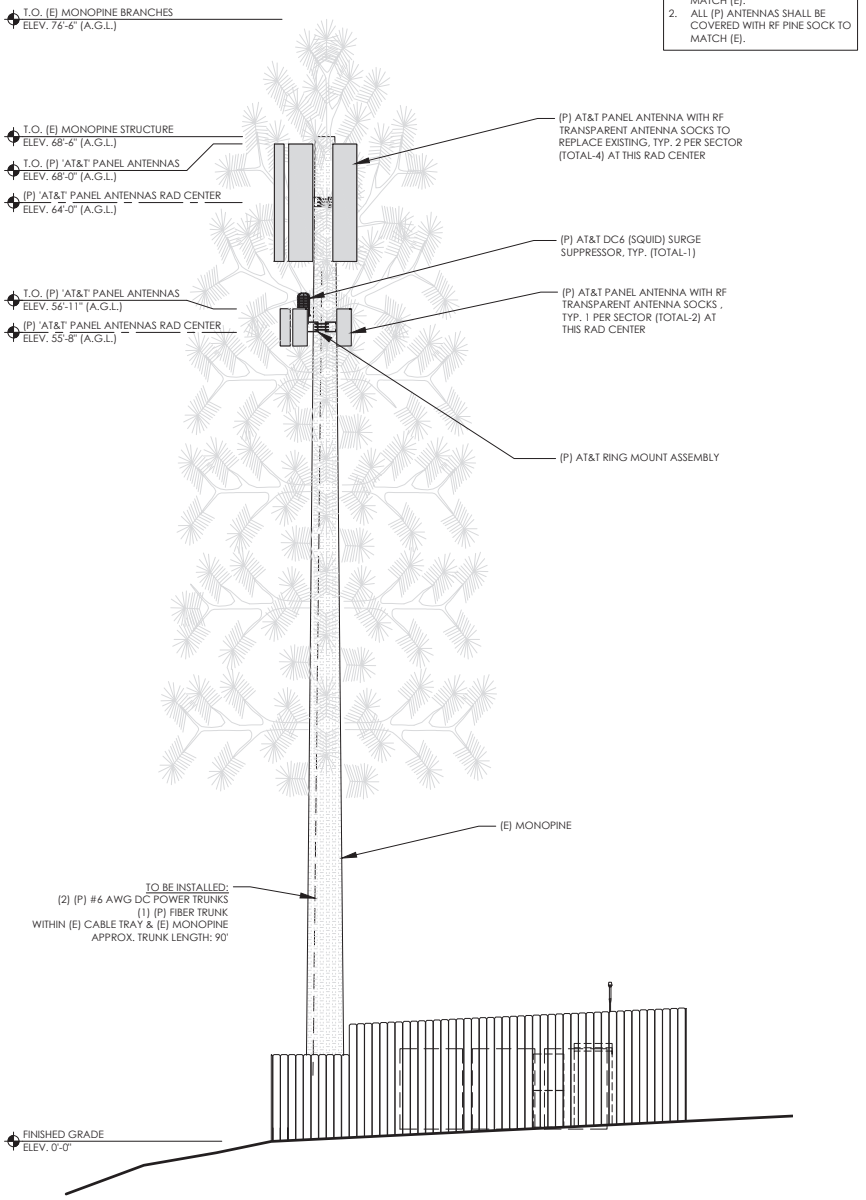
Sheet Number:

A-3.1



1 EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"



2 PROPOSED SOUTHWEST ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"

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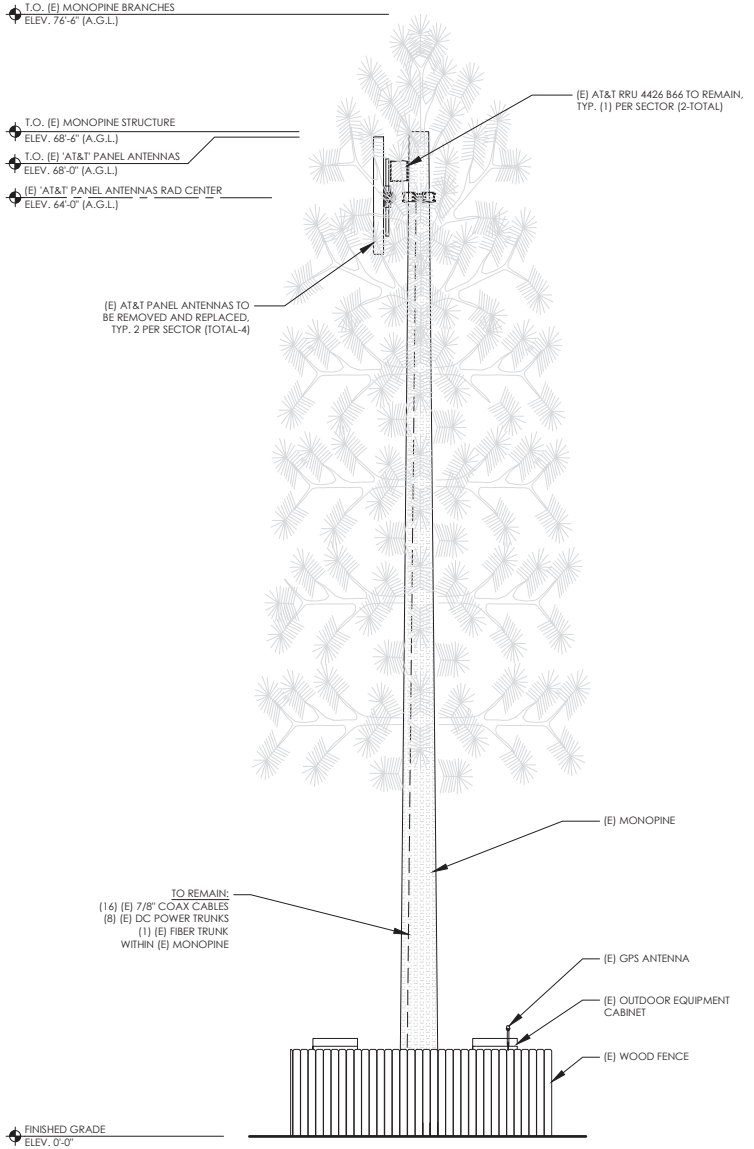
Sheet Title:

SOUTHWEST ELEVATIONS

Sheet Number:

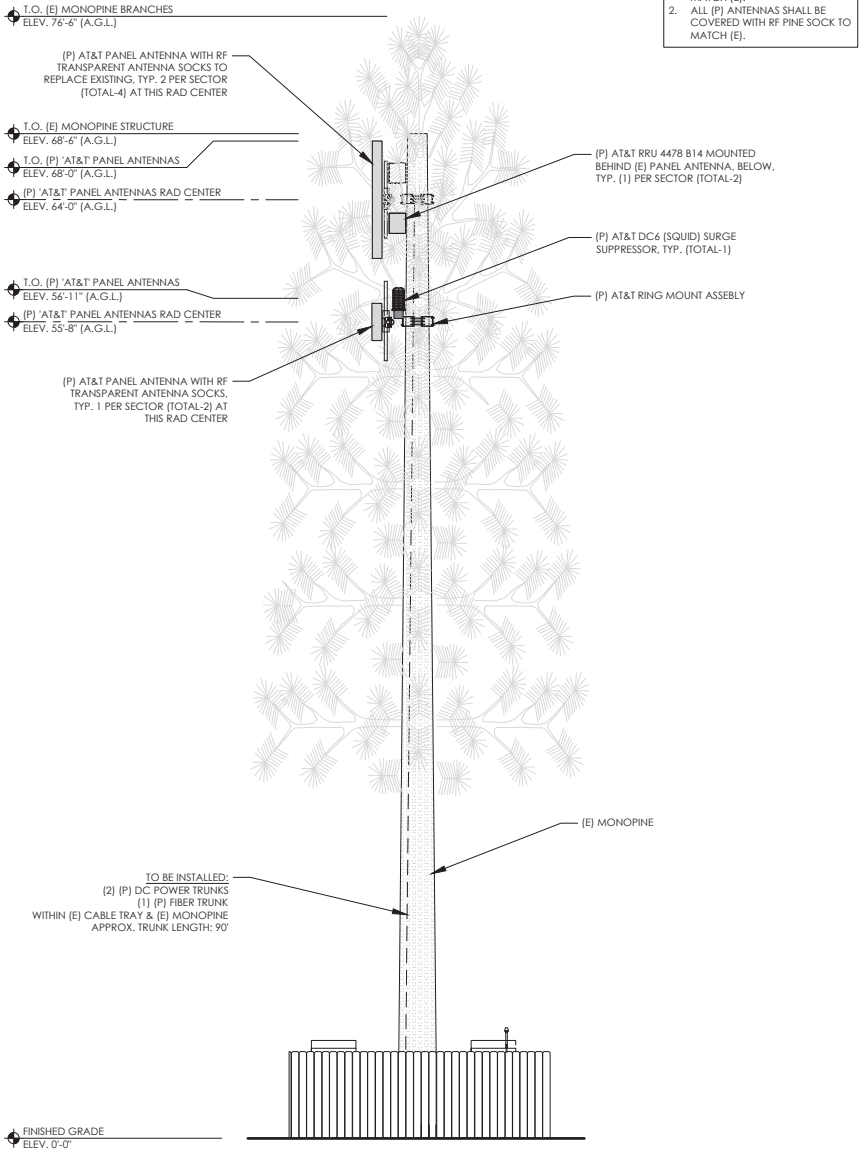
A-4



2 EXISTING SOUTH ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

NOTE:
1. ALL (P) ANTENNAS AND EQUIPMENT MOUNTED TO THE (E) POLE SHALL BE PAINTED TO MATCH (E).
2. ALL (P) ANTENNAS SHALL BE COVERED WITH RF PINE SOCK TO MATCH (E).



1 PROPOSED SOUTH ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

P-055019

AT&T Site ID:

CCL05678

REV	DATE	DESCRIPTION	INT.
2	06/04/21	EME REVISION	ES
1	05/25/21	REVISED RFDS	JF
0	05/10/21	100% CD	KV
A	05/03/21	90% CD	PS/MM

Licensor:

SIGNED: 2021/06/04
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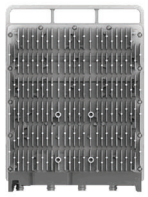
Sheet Title:

SOUTHEAST ELEVATIONS

Sheet Number:

A-5



FRONT

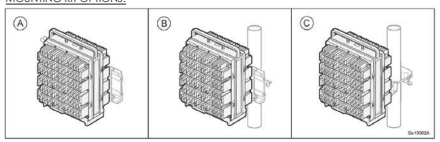
SIDE

SPECIFICATIONS

MFG: ERICSSON
MODEL: RRUS 4449 B5/B12
HEIGHT: 14.96 IN
WIDTH: 13.19 IN
DEPTH: 10.43 IN

WEIGHT: 73 LBS

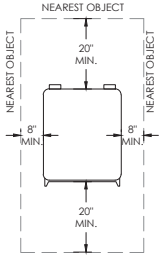
MOUNTING KIT OPTIONS:



12 RRUS 4449 SPECIFICATION
N.T.S.

TOP

*KEEP 40" CLEAR FROM FRONT OF RRU

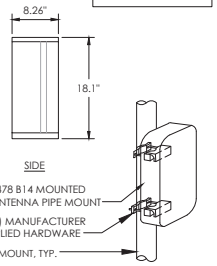


FRONT

SPECIFICATIONS

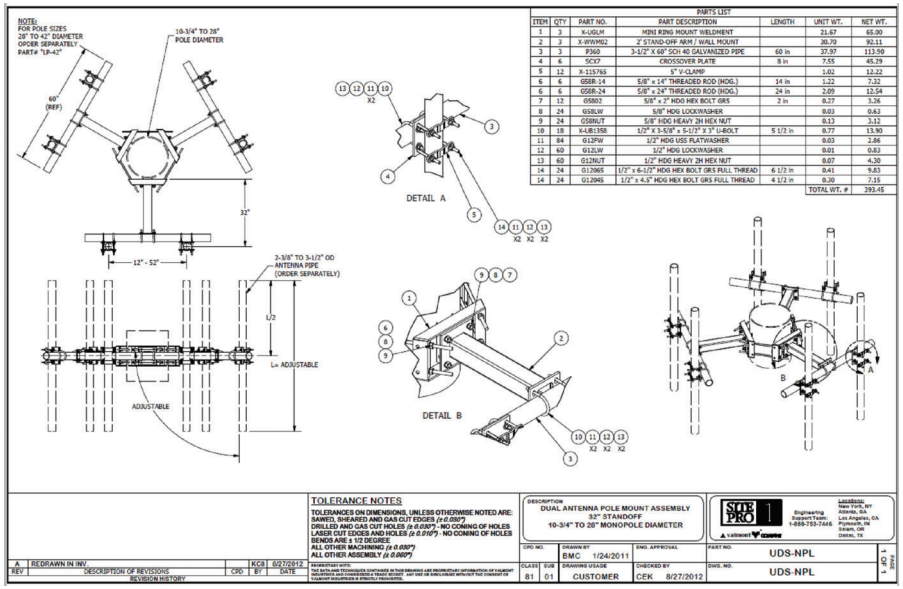
MFG: ERICSSON
MODEL: 4478 B14
HEIGHT: 18.1 IN
WIDTH: 13.4 IN
DEPTH: 8.26 IN

WEIGHT: 59.4 LBS



SIDE

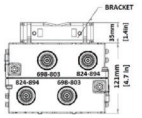
11 RRUS 4478 B14 SPECIFICATIONS
N.T.S.

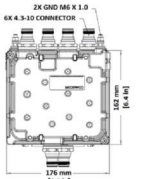


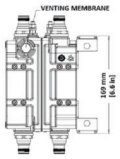
8 DUAL ANTENNA POLE MOUNT ASSEMBLY SITPRO1 #UDS-NPL
N.T.S

3

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.





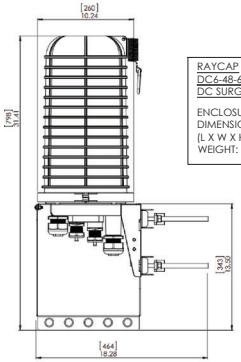


SPECIFICATIONS

MFG: COMMSCOPE
MODEL: CBC78T-DS-43
HEIGHT: 6.4 IN
WIDTH: 6.9 IN
DEPTH: 4.8 IN

WEIGHT: 11.5 LBS

2 TWIN DIPLEXER SPECIFICATIONS
N.T.S.



RAYCAP
DC6-48-60-0-8C-EV
DC SURGE PROTECTION SOLUTIONS

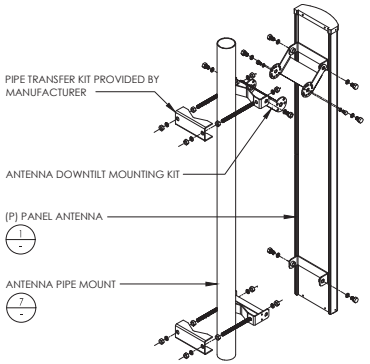
ENCLOSURE DIMENSIONS (L X W X H): 18.28" X 10.24" X 31.4
WEIGHT: 26.2 LBS.

POLE MOUNT - USING PRE-INSTALLED EXISTING HARDWARE, MOUNT BRACKET TO 2" TO 4" DIAMETER POLE

MONOPOLE MOUNT - USE 1" STAINLESS STEEL BRACKETS (NOT SUPPLIED) THROUGH SLOTS ON BRACKET TO MOUNT TO MONOPOLE

UNISTRUT MOUNT - USING HARDWARE FROM MOUNTING BRACKET MOUNT TO UNISTRUT

10 DC-6 - DC SURGE PROTECTION SOULTIONS
N.T.S.



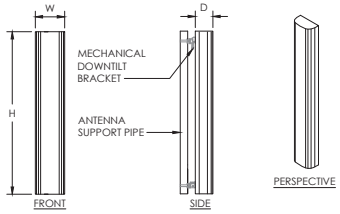
4 ANTENNA MOUNTING DETAIL
N.T.S.

SPECIFICATIONS:

MFG / MODEL / PORT: ERICSSON / AIR 6449 N77
DIMENSIONS: 31.50" H X 15.90" W X 8.70" D
WEIGHT: 82.00 LBS (W/O MOUNTING KIT)

MFG / MODEL / PORT: COMMSCOPE / NNHH-65C-R4 / OCTO
DIMENSIONS: 96" H X 19.6" W X 7.8" D
WEIGHT: 99.2 LBS (W/O MOUNTING KIT)

MFG / MODEL / PORT: CCI / DMP65R-BU8DA-K / 8-PORT
DIMENSIONS: 96" H X 20.70" W X 7.7" D
WEIGHT: 119 LBS (W/O MOUNTING KIT)



FRONT SIDE PERSPECTIVE

1 ANTENNA SPECIFICATIONS
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

P-055019

AT&T Site ID:

CCL05678

REV	DATE	DESCRIPTION	INT.
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1	05/25/21	REVISED RFDS	JF
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A	05/03/21	90% CD	PS/MM

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HILLSBOROUGH - ODESSEY SCHOOL
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SAN MATEO, CA 94402

Sheet Title:

DETAILS

Sheet Number:

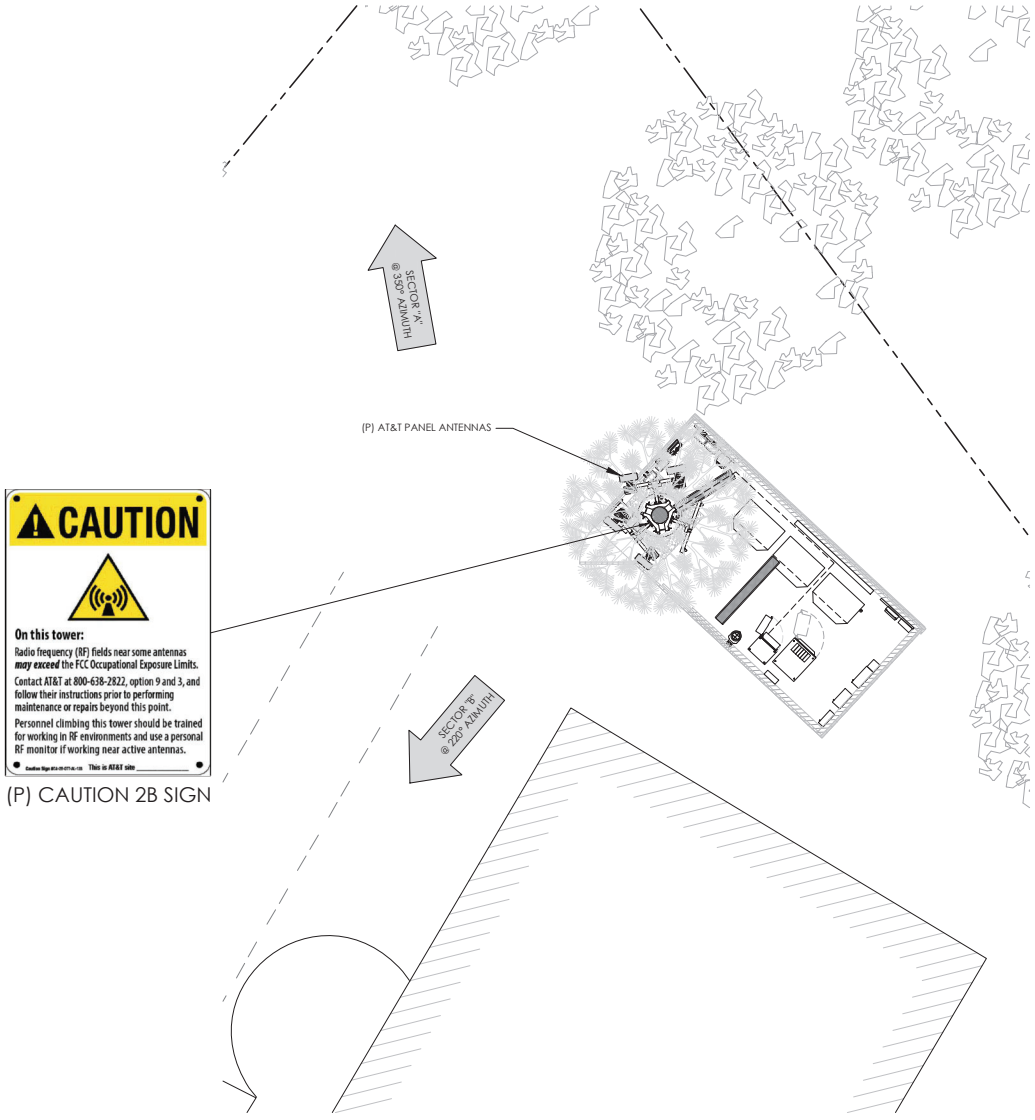
D-1

RECOMMENDATIONS:

AT&T MOBILITY ACCESS LOCATION:
CAUTION 2B SIGN REQUIRED ON BASE OF THE MONOPOLE AT ACCESS LOCATION.

MATERIALS:
(1) CAUTION 2B SIGN

NOTE:
1. RF SAFETY MEASURES COMPLETED PER EME REPORT COMPLETED ON 05/25/2021, BY "WATERFORD CONSULTANTS, LLC"
2. ANY OTHER RF REPORT IS FOR REFERENCE ONLY.



(P) CAUTION 2B SIGN

3 EME SIGNAGE LOCATION PLAN
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

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IRVINE, CA 92614

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SAN MATEO, CA 94402

Sheet Title:

EME SIGNAGE LOCATION PLAN

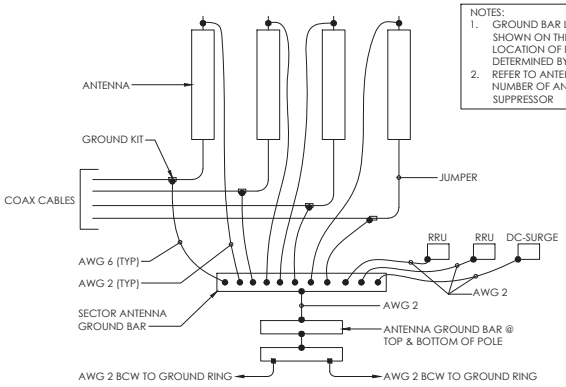
Sheet Number:

EME-1

GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
   A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
21. IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
22. EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
23. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
24. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
25. PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
27. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

4 GROUNDING NOTES
N.T.S.



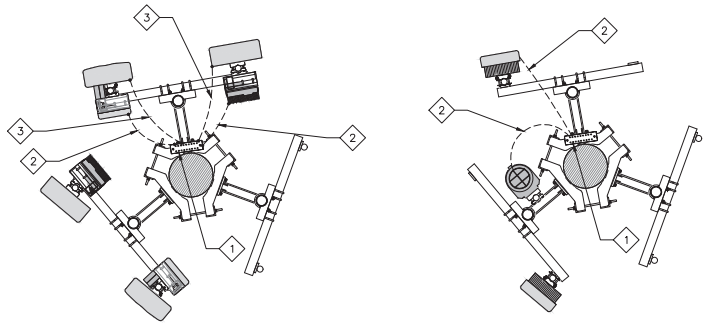
NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

3 TYP. ANTENNA GROUNDING DIAGRAM
N.T.S.

KEY NOTES:

1. (E) ANTENNA GROUND BAR TO BE VERIFIED @ FIELD
2. AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRUS AND DC6 TO (E) ANTENNA GROUND BAR
3. AWG 6 INSULATED COPPER GROUND WIRE FROM NEW ANTENNA GROUND KIT TO (E) ANTENNA GROUND BAR

NOTES:
1. REFER TO TYP. ANTENNA GROUNDING DIAGRAM
2. (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY



2 ANTENNA GROUNDING PLAN, TYP PER SECTOR
N.T.S

1 NOT USED
N.T.S

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SAN RAMON CA 94583

Vendor:

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SAN MATEO, CA 94402

Sheet Title:

GROUNDING PLANS & NOTES

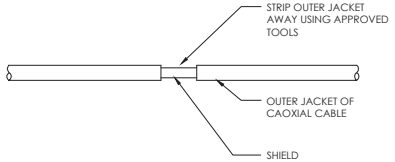
Sheet Number:

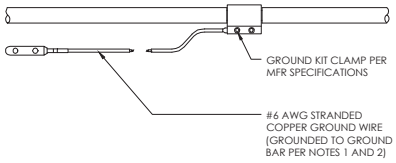
G-1

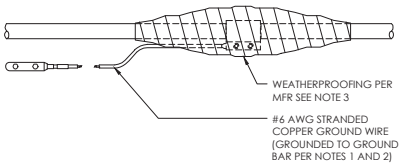
10

NOTES:

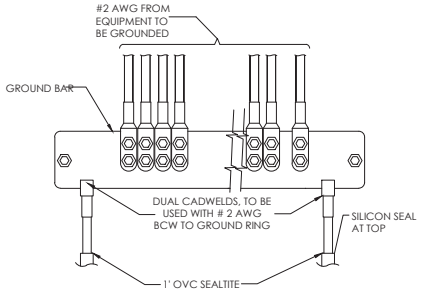
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR







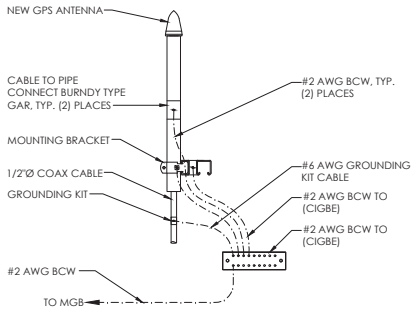
7 GROUND KIT
N.T.S.



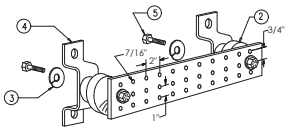
NOTE:
1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

5 GROUND BAR CONNECTION
N.T.S.

3



9 GPS ANTENNA GROUNDING
N.T.S.



LEGEND

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL

3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL

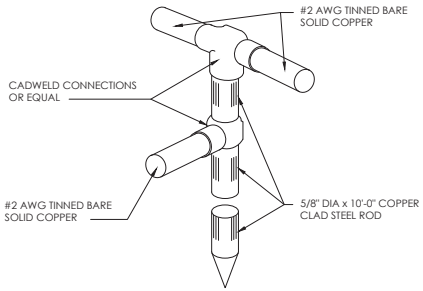
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL

5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL

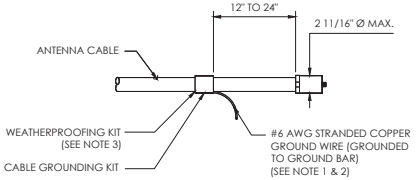
6- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

4 GROUND BAR DETAIL
N.T.S.



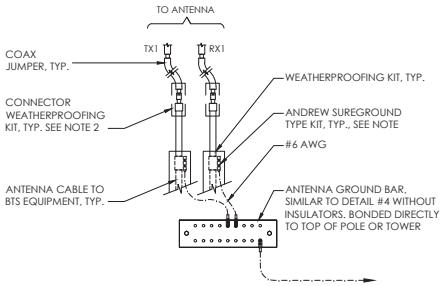
2 GROUND ROD DETAIL
N.T.S.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

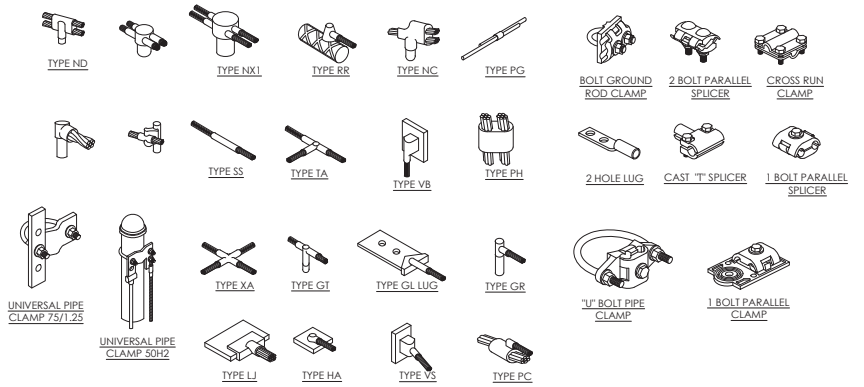
8 CONNECTION OF GROUND KIT TO ANTENNA CABLE
N.T.S.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED

6 GROUND CONNECTION TO GROUND BAR
N.T.S.



1 TYPICAL MECHANICAL CONNECTIONS
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

P-055019

AT&T Site ID:

CCL05678

REV	DATE	DESCRIPTION	INT.
2	06/04/21	EME REVISION	ES
1	05/25/21	REVISED RFDS	JF
0	05/10/21	100% CD	KV
A	05/03/21	90% CD	PS/MM

Licensor:

SIGNED: 2021/06/04
EXPIRES: 2021/09/30

Issued For:

CCL05678

HILLSBOROUGH - ODESSEY SCHOOL
201 POLHEMUS RD
SAN MATEO, CA 94402

Sheet Title:

GROUNDING DETAILS

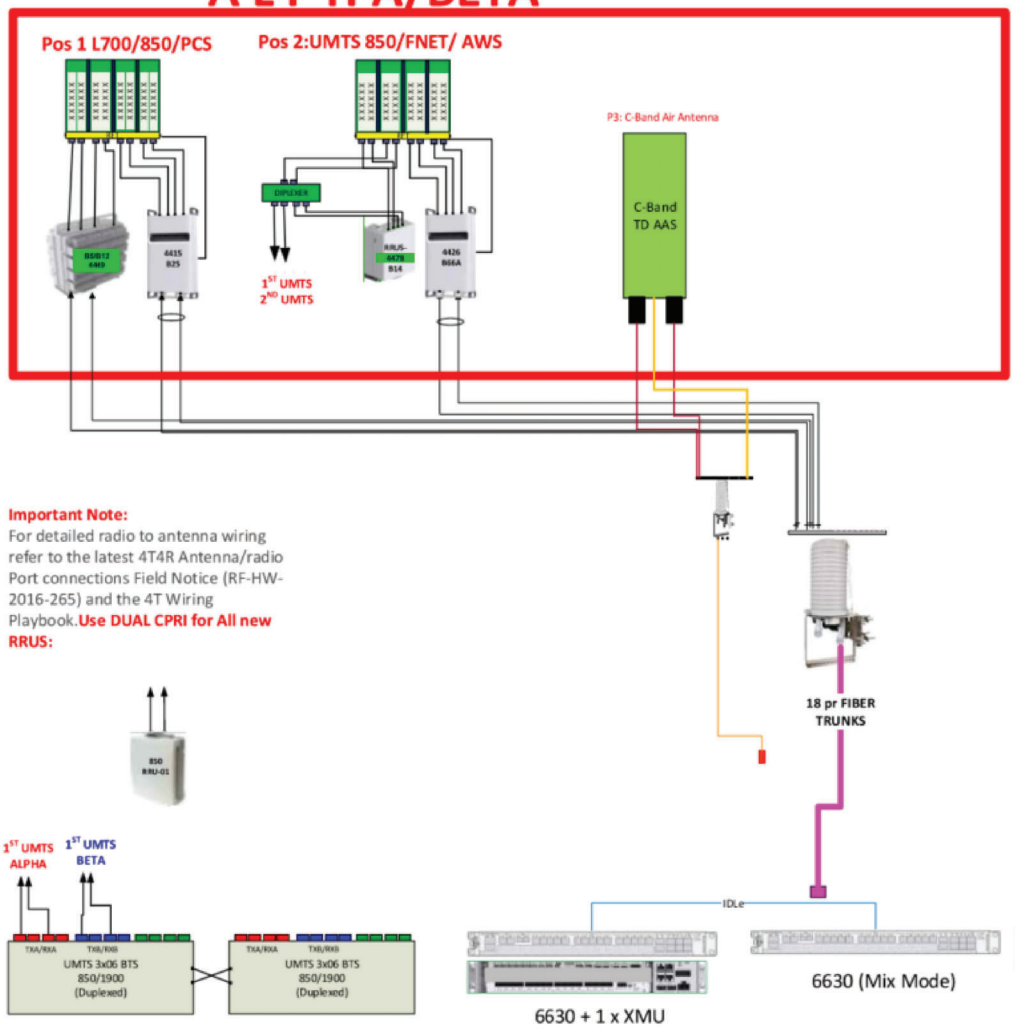
Sheet Number:

G-2

NOTES TO CONTRACTOR:
1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.

Diagram - Sector	A	Diagram File Name - CCL05678_FN_700_850_CB_PD_V2.vsd					
Atoll Site Name -	CNU5678	Location Name -	HILLSBOROUGH - ODESSEY SCHOOL	Market -	SAN FRANCISCO	Market Cluster -	SAN FRANCISCO/SACRAMENTO
Comments:							

ALPHA/BETA



1 PLUMBING DIAGRAM
N.T.S.

PREPARED FOR
AT&T
5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:
JS INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
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AT&T Site ID:
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Licensor:
SIGNED: 2021/06/04
EXPIRES: 2021/09/30

Issued For:
CCL05678
HILLSBOROUGH - ODESSEY SCHOOL
201 POLHEMUS RD
SAN MATEO, CA 94402

Sheet Title:
PLUMBING DIAGRAM

Sheet Number:
RF-1

This Site Operated by:

AT&T MOBILITY

5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
TO DEACTIVATE ANTENNAS CALL THE
FOLLOWING NUMBER:
For 24 Hour Emergency Contact and Access Please Call:
(800)832-6662

Reference Site#: CCL05678

Site Address: 201 POLHEMUS RD SAN MATEO, CA 94402

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO TRESPASSING

9 FENCED COMPOUND SIGNAGE
N.T.S.

INFORMATION

Federal Communications Communication
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with federal Communications Commission rules and antenna tower registration 47CFR 17.4(g).

8" x 12"

6 FCC ASR SIGNAGE
N.T.S.

NOTICE

AUTHORIZED PERSONNEL ONLY

8 DOOR / EQUIPMENT SIGN
N.T.S.

Property of AT&T

Authorized Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

5 GATE SIGNAGE
N.T.S.

2 0 0 W

DANGER

DIESEL FUEL
NO SMOKING
NO OPEN FLAMES

0 3 2 W

DANGER

LEAD ACID BATTERIES
CORROSIVE LIQUIDS (ELECTROLYTE)
ENERGIZED ELECTRICAL CIRCUITS
NO SMOKING

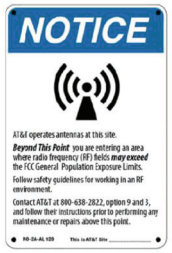
7 NFPA HAZARD SIGN - TYPICAL
N.T.S.

Property of AT&T

Authorized Personnel Only

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

4 SHELTER / CABINET DOORS SIGNAGE
N.T.S.



Notice Sign 2
(8" x 12")

Caution Sign 2
(8" x 12")

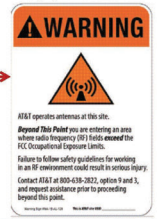
Trilingual Notice Sign

Caution Sign 2A
(8" x 12")
Use only if instructed by RF Safety

Caution Sign 2B Tower
(8" x 12")
Use for Towers only

Caution Sign 2C Parapet
(5" x 7")

Warning Sign #WA-**1B**-AL-128



Warning Sign #WA-**2A**-AL-128

Note: Both signs have the same 8" x 12" dimensions

Shall be used when barriers are present or will be deployed around AT&T antennas – **Warning 1B**

Shall be used in lieu of barriers along with striping when barriers are not allowed– **Warning 2A**

REQUIRE HQ / MRFSE APPROVAL

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:

*SIGN 1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) ¼ INCH MOUNTING HOLES. ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO BE WHITE FRONT & BACK w/ BLACK LETTERING.

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND w. 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING w/0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN ⅛ INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

ALL PAINT WILL BE BAKED w/ENAMEL w/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

*SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL w/ AN ADHESIVE BACKING, THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK w/ ¼ INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK w ¼ INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

2 ALERTING & INFORMATION SIGNAGE
N.T.S.

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
2. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
3. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR AND THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
4. PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTOR'S CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION.
5. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE UPON CONSTRUCTION COMPLETION.

1 GENERAL NOTES
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE PARTNERS

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

P-055019

AT&T Site ID:

CCL05678

REV	DATE	DESCRIPTION	INT.
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A	05/03/21	90% CD	PS/MM

Licensor:

SIGNED: 2021/06/04
EXPIRES: 2021/09/30

Issued For:

CCL05678

HILLSBOROUGH - ODESSEY SCHOOL
201 POLHEMUS RD
SAN MATEO, CA 94402

Sheet Title:

SITE SIGNAGE

Sheet Number:

SS-1

COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

ATTACHMENT D

Shot Map

05.21.2021

CCL05678 Hillsborough - Odessey School
201 Polhemus Road, San Mateo, CA 94402

Existing

05.21.2021

existing AT&T antennas
to be removed/replaced

at&t

CCL05678 Hillsborough - Odessey School
201 Polhemus Road, San Mateo, CA 94402

Proposed

proposed new AT&T antennas

Your Project. Visualized.
www.photosims.com

VIEW 1: *Photo simulation as seen looking northeast from Polhemus Road*

at&t

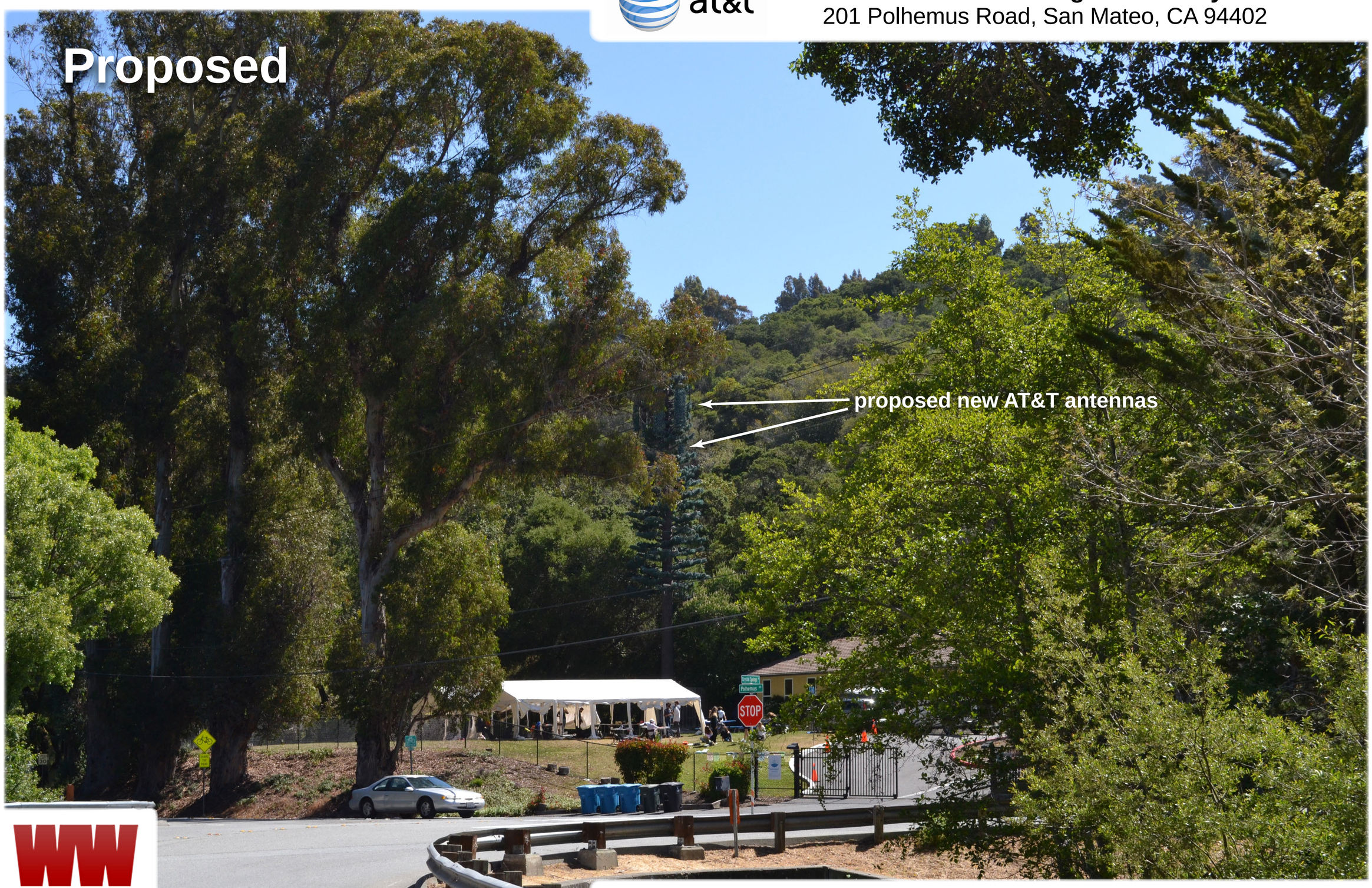
CCL05678 Hillsborough - Odessey School
201 Polhemus Road, San Mateo, CA 94402

Your Project. Visualized.
www.photosims.com

VIEW 2: *Photo simulation as seen looking south from Polhemus Road*

at&t

CCL05678 Hillsborough - Odessey School
201 Polhemus Road, San Mateo, CA 94402



Your Project. Visualized.
www.photosims.com

VIEW 3: *Photo simulation as seen looking northeast from Crystal Springs Road*

COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

ATTACHMENT E

Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:	**Hillsborough-Odessey School**	**Site Structure Type:**	**Monopine**
Address:	**201 Polhemus Road**	**Latitude:**	**37.5343861**
	San Mateo, CA 94402	**Longitude:**	**-122.349275**
Report Date:	**May 25, 2021**	**Project:**	**Modification**

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the Hillsborough-Odessey School installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopine and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, David C. Cotton, Jr., am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Table 1: FCC Limits

Frequency (MHz)	*Limits for General Population/ Uncontrolled Exposure*		*Limits for Occupational/ Controlled Exposure*	
	Power Density (mW/cm^2)	**Averaging Time (minutes)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \ (\mathrm{mW/cm^2})$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \ (\mathrm{mW/cm^2})$$

where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

7430 New Technology Way, Suite 150 Frederick, Maryland 21703 (703) 596-1022 Phone www.waterfordconsultants.com

Analysis

AT&T Mobility proposes the following installation at this location:

- REMOVE AND REPLACE (4) EXISTING ANTENNAS (TYP. 2 PER SECTOR)
- INSTALL (2) NEW AIR6449 ANTENNAS ON NEW COLLAR MOUNT (TYP. 1 PER SECTOR)
- REMOVE (2) EXISTING RRUS-11 FROM EQUIPMENT AREA
- INSTALL (2) RRU 4449 AT 64' RAD CENTER, 1 PER SECTOR

The antennas will be mounted on a 68.5-foot Monopine with centerlines 64 & 55.66 feet above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.

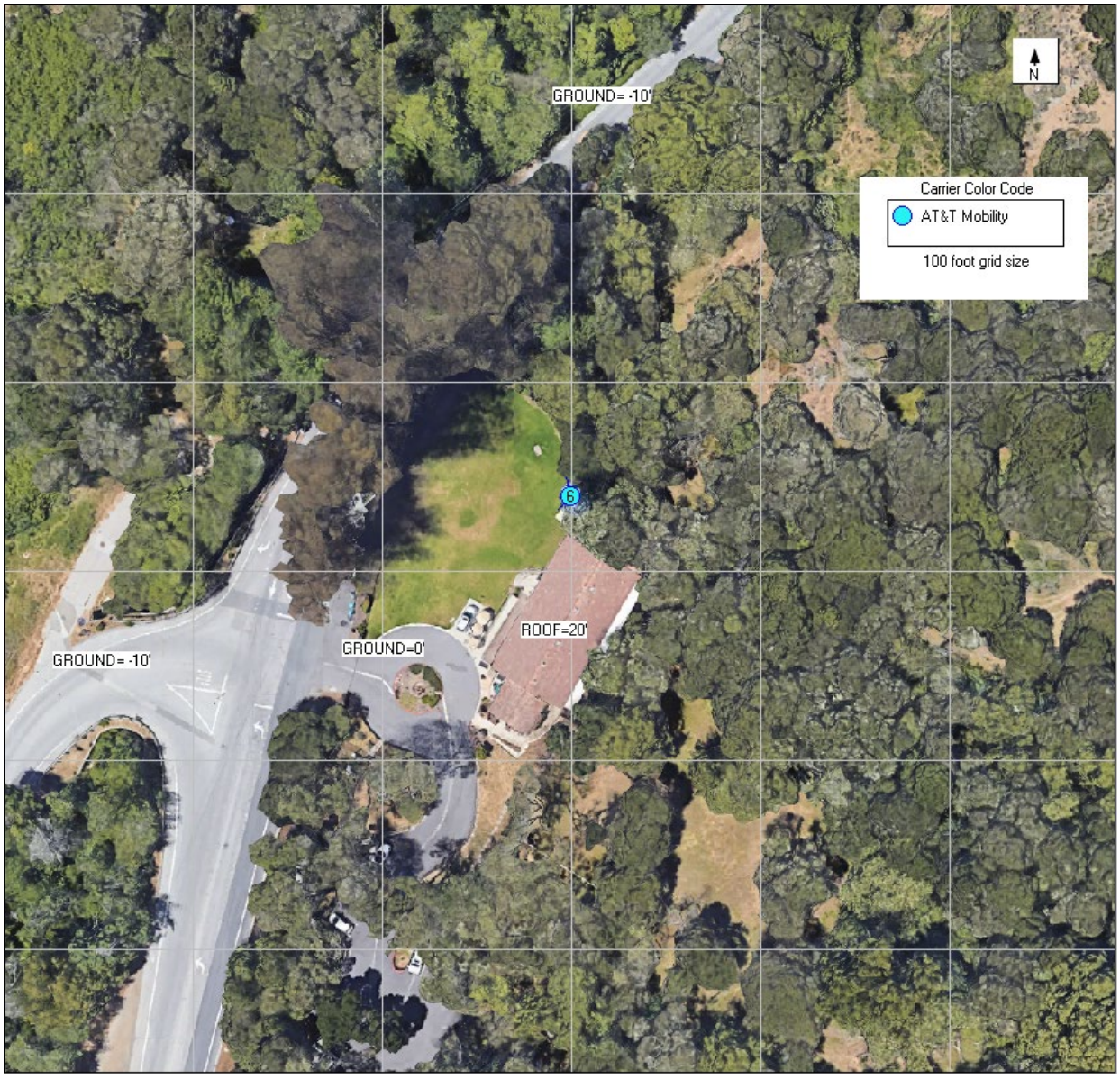


Figure 1: Antenna Locations

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Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 6.54% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 6.4759% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopine to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

Compliance Requirement Diagram (Access Location)

Recommendations

AT&T Mobility Access Location
Caution 2B sign required on base of the Monopine at access location.

Materials –
1 Caution 2B Sign

Figure 2: Mitigation Recommendations

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Appendix A: Operating Parameters Considered in this Analysis

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	AT&T	CCI	DMP65R-BU8D 02DT	700	350	0	71	8	40	4	0	12.25	2686	4407	64
1	AT&T	CCI	DMP65R-BU8D 02DT	850	350	0	71	8	40	4	0	12.55	2878	4722	64
1	AT&T	CCI	DMP65R-BU8D 00DT	1900	350	0	67	8	40	4	0	14.15	4160	6825	64
2	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	700	350	0	73	8	40	4	0	12.82	3063	5025	64
2	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	850	350	0	71	8	40	2	0	13.47	1779	2918	64
2	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	2100	350	0	61	8	60	4	0	16.42	10525	17267	64
3	AT&T	ERICSSON	SON_AIR6449 NR MACRO 3700 AT&T	3700	350	0	63	2.8	320	1	0	16.65	14796	24274	55.66
4	AT&T	CCI	DMP65R-BU8D 02DT	700	220	0	71	8	40	4	0	12.25	2686	4407	64
4	AT&T	CCI	DMP65R-BU8D 02DT	850	220	0	71	8	40	4	0	12.55	2878	4722	64
4	AT&T	CCI	DMP65R-BU8D 00DT	1900	220	0	67	8	40	4	0	14.15	4160	6825	64
5	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	700	220	0	73	8	40	4	0	12.82	3063	5025	64
5	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	850	220	0	71	8	40	2	0	13.47	1779	2918	64
5	AT&T	COMMSCOPE	NNHH-65C-R4 02DT	2100	220	0	61	8	60	4	0	16.42	10525	17267	64
6	AT&T	ERICSSON	SON_AIR6449 NR MACRO 3700 AT&T	3700	220	0	63	2.8	320	1	0	16.65	14796	24274	55.66

Notes: Table depicts recommended operating parameters for AT&T Mobility proposed operations.