San Francisco Planning

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EXECUTIVE SUMMARY
CONDITIONAL USE AUTHORIZATION

HEARING DATE: DECEMBER 10, 2020

Record No.:	**2018-009545CUA**
Project Address:	Caltrans PROW – Intersection of Alanna Way & Executive Park Boulevard
Zoning:	P,C-2 (PUBLIC,COMMUNITY BUSINESS Zoning District OS Height and Bulk District Executive Park Special Use District
Block/Lot:	4991 / 066
Project Sponsor:	Misako Hill 5001 Executive Parkway San Francisco, CA
Property Owner:	CA Department of Transportation PO Box 23660 Oakland, CA 94623
Staff Contact:	Ashley Lindsay – (628) 652-7360 Ashley Lindsay@sfgov.org

Recommendation: Approval with Conditions

Project Description

The Project includes installation of a new AT&T Mobility macro wireless telecommunications facility on a new 70' tall faux-eucalyptus tree consisting of nine (9) panel antennas, and ancillary equipment as part of the AT&T Mobility telecommunications network. Ancillary equipment will be screened within FRP paneling enclosure with faux CMU finish at ground level. Three new trees are to be planted around the proposed facility for additional screening.

Required Commission Action

In order for the Project to proceed, the Commission must grant a Conditional Use Authorization, pursuant to Planning Code Sections 210.1, 211.2, and 303 to allow a wireless telecommunications facility within the P and C-2 Zoning District.

Issues and Other Considerations

- **Public Comment & Outreach.**
    - A public outreach meeting was held on Monday, June 18, 2018 from 6:00 PM to 7:00PM at the Korean First Presbyterian Church of San Francisco, 333 Tunnel Avenue, San Francisco, CA 94134. 2 Community members were present. The Department has received correspondence from 8 people regarding the proposed project. This correspondence has primarily expressed opposition to the project. Much of the opposition expressed concerns over RF exposure, safety standards and measurements.

Environmental Review

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 1 categorical exemption.

Basis for Recommendation

The Department finds that the Project is, on balance, consistent with the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines and the Objectives and Policies of the General Plan. The Project will enhance the ability of the City to protect both life and property from the effects of a fire or natural disaster by providing communication services. The Department also finds the project to be necessary, desirable, and compatible with the surrounding neighborhood, and not to be detrimental to persons or adjacent properties in the vicinity.

Attachments:

Draft Motion – Conditional Use Authorization with Conditions of Approval
Exhibit B – Plans and Renderings
Exhibit C – Environmental Determination
Exhibit D – Land Use Data
Exhibit E – Maps and Context Photos
Exhibit G - Project Sponsor Brief
Exhibit H – Radio Frequency Report and DPH Approval Letter
Exhibit I – Coverage Maps
Exhibit J – Independent Evaluation

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PLANNING COMMISSION DRAFT MOTION

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Zoning:	P,C-2 (PUBLIC,COMMUNITY BUSINESS Zoning District OS Height and Bulk District Executive Park Special Use District
Block/Lot:	4991 / 066
Project Sponsor:	Misako Hill 5001 Executive Parkway San Ramon, CA 94583
Property Owner:	CA Department of Transportation PO Box 23660 Oakland, CA 94623
Staff Contact:	Ashley Lindsay – (628) 652-7360 Ashley.Lindsay@sfgov.org

ADOPTING FINDINGS RELATING TO A CONDITIONAL USE AUTHORIZATION PURSUANT TO PLANNING CODE SECTION 303(c), 210.1 AND 211.2, TO INSTALL A NEW AT&T MOBILITY MACRO WIRELESS TELECOMMUNICATIONS FACILITY ON A NEW 70' TALL FAUX-EUCALYPTUS TREE CONSISTING OF NINE (9) PANEL ANTENNAS, AND ANCILLARY EQUIPMENT AS PART OF THE AT&T MOBILITY TELECOMMUNICATIONS NETWORK. ANCILLARY EQUIPMENT WILL BE SCREENED WITHIN FRP PANELING ENCLOSURE WITH FAUX CMU FINISH AT GROUND LEVEL. THREE NEW TREES ARE TO BE PLANTED AROUND THE PROPOSED FACILITY FOR ADDITIONAL SCREENING LOCATED IN THE PROW, LOT 066 IN ASSESSOR'S BLOCK 4991, WITHIN THE C-2 (COMMUNITY BUSINESS), P (PUBLIC), EXECUTIVE PARK SUD (SPECIAL USE DISTRICT), AND THE OS HEIGHT AND BULK DISTRICT, AND ADOPTING FINDINGS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT.

PREAMBLE

On July 11, 2018, Misako Hill of J5 Infrastructure on behalf of AT&T Mobility (hereinafter "Project Sponsor") filed Application No. 2018-009545CUA (hereinafter "Application") with the Planning Department (hereinafter "Department") for a Conditional Use Authorization to construct a new wireless telecommunications facility (hereinafter "Project") in Caltrans Public Right-of-Way, Block 4991 and Lot 066, (hereinafter "Project Site").

On November 16, 2020 the Project was determined to be exempt from the California Environmental Quality Act ("CEQA") as a Class 1 Categorical Exemption under CEQA as described in the determination contained in the Planning Department files for this Project.

On December 10, 2020, the San Francisco Planning Commission (hereinafter "Commission") conducted a duly noticed public hearing at a regularly scheduled meeting on Conditional Use Authorization Application No. 2018-009545CUA.

The Planning Department Commission Secretary is the custodian of records; the File for Record No. 2018-009545CUA is located at 49 South Van Ness Avenue, Suite 1400, San Francisco, California.

The Commission has heard and considered the testimony presented to it at the public hearing and has further considered written materials and oral testimony presented on behalf of the applicant, Department staff, and other interested parties.

MOVED, that the Commission hereby authorizes the Conditional Use Authorization as requested in Application No. 2018-009545CUA, subject to the conditions contained in "EXHIBIT A" of this motion, based on the following findings:

FINDINGS

Having reviewed the materials identified in the preamble above, and having heard all testimony and arguments, this Commission finds, concludes, and determines as follows:

1. **The above recitals are accurate and constitute findings of this Commission.**

2. **Project Description.** The Project includes installation of a new AT&T Mobility macro wireless telecommunications facility on a new 70' tall faux-eucalyptus tree consisting of nine (9) panel antennas, and ancillary equipment as part of the AT&T Mobility telecommunications network. Ancillary equipment will be screened within FRP paneling enclosure with faux CMU finish at ground level. Three (3) new trees are to be planted around the proposed facility for additional screening.

3. **Site Description and Present Use.** The Project is located on Caltrans public right-of-way, northwest of the Executive Park Blvd and Alanna Way intersection. The Project Site is undeveloped and contains no buildings

4. **Surrounding Properties and Neighborhood.** The Project Site is located within the P and C-2 Zoning Districts in the Bayview Hunters Plan. The immediate context is mixed in character with convenience goods and services to nearby Residential uses. The immediate neighborhood includes a four story business park to the northeast, a parking lot to the south east, and bounded by the 101 freeway to the west. Other zoning districts in the vicinity of the project site include: RC-3 (Neighborhood Commercial-Moderate Scale), and PDR-2 (Pdr Production, Distribution, And Repair) Zoning District.

5. **Public Outreach and Comments.** A public outreach meeting was held on Monday, June 18, 2018 from 6:00 PM to 7:00PM at the Korean First Presbyterian Church of San Francisco, 333 Tunnel Avenue, San Francisco, CA 94134. 2 Community members were present. The Department has received correspondence from 8 people regarding the proposed project. This correspondence has primarily expressed opposition to the project. Much of the opposition expressed concerns over RF exposure, safety standards and measurements.

6. Past History and Actions. The Planning Commission adopted the *Wireless Telecommunications Services (WTS) Facilities Siting Guidelines* ("Guidelines") for the installation of wireless telecommunications facilities in 1996. These Guidelines set forth the land use policies and practices that guide the installation and approval of wireless facilities throughout San Francisco. A large portion of the Guidelines was dedicated to establishing location preferences for these installations. The Board of Supervisors, in Resolution No. 635-96, provided input as to where wireless facilities should be located within San Francisco. The Guidelines were updated by the Commission in 2003 and again in 2012, requiring community outreach, notification, and detailed information about the facilities to be installed.

   Section 8.1 of the Guidelines outlines Location Preferences for wireless facilities. There are five primary areas were the installation of wireless facilities should be located:

1. Publicly-used Structures: such facilities as fire stations, utility structures, community facilities, and other public structures;
2. Co-Location Site: encourages installation of facilities on buildings that already have wireless installations;
3. Industrial or Commercial Structures: buildings such as warehouses, factories, garages, service stations;
4. Industrial or Commercial Structures: buildings such as supermarkets, retail stores, banks; and
5. Mixed-Use Buildings in High Density Districts: buildings such as housing above commercial or other non-residential space.

Section 8.1 of the WTS Siting Guidelines further stipulates that the Planning Commission will not approve WTS applications for Preference 5 or below Location Sites unless the application describes (a) what publicly-used building, co-location site or other Preferred Location Sites are located within the geographic service area; (b) what good faith efforts and measures were taken to secure these more Preferred Locations, (c) explains why such efforts were unsuccessful; and (d) demonstrates that the location for the site is essential to meet demands in the geographic service area and the Applicant's citywide networks.

Before the Planning Commission can review an application to install a wireless facility, the Project Sponsor must submit a five-year facilities plan, which must be updated biannually, an emissions report and approval by the Department of Public Health, Section 106 Declaration of Intent, an independent evaluation verifying coverage and capacity, a submittal checklist and details about the facilities to be installed.

Under Section 704(B)(iv) of the 1996 Federal Telecommunications Act, local jurisdictions cannot deny wireless facilities based on Radio Frequency (RF) radiation emissions so long as such facilities comply with the FCC's regulations concerning such emissions.

7. Location Preference. The *WTS Facilities Siting Guidelines* identify different types of zoning districts and building uses for the siting of wireless telecommunications facilities. Based on the zoning and land use, the proposed WTS facility aligns with the Location Preference 1 and 3 Sites (Public Facilities and Commercial Structures) according to the WTS Facilities Siting Guidelines, making it a desired location.

8. Radio Waves Range. The Project Sponsor has stated that the proposed wireless network is designed to address coverage and capacity needs in the area. The network will operate at 3,210 watts for WCS, 5,280 watts for AWS, 4,620 watts for PCS, 1,800 watts for cellular, and 3,960 watts for 700 MHz service, which are regulated by the Federal Communications Commission (FCC) and must comply with the FCC-adopted health and safety standards for electromagnetic radiation and radio frequency radiation.

9. Radiofrequency (RF) Emissions: The Project Sponsor retained Hammett & Edison, Inc., Consulting Engineers, a radio engineering consulting firm, to prepare a report describing the expected RF emissions from the proposed facility. Pursuant to the Guidelines, the Department of Public Health reviewed the report and determined that the proposed facility complies with the standards set forth in the Guidelines.

10. Department of Public Health Review and Approval. The Project was referred to the Department of Public Health (DPH) for emissions exposure analysis. Radio-Frequency (RF) levels from the proposed AT&T Mobility transmitters at any nearby publicly accessible building or area would be 98% of the FCC public exposure limit.

    There are no existing antennas on the rooftop of the subject building. Existing RF levels at ground were presumed to be well below the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. AT&T Mobility proposes to install ten (10) new antennas. The height to the top of the antennas is approximately 45 feet above the ground. The estimated RF field from the proposed AT&T Mobility transmitters at ground level is calculated to be 0.18 mW/sq cm., which is 23% of the FCC public exposure limit. The three-dimensional perimeter of RF levels equal to the public exposure limit extends 90 feet, and the three-dimensional perimeter of RF level equal to the occupational exclusion limit extends 39 feet; both limits do not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Workers should not have access to within 39 feet of the front of the antennas while they are in operation.

11. Coverage and Capacity Verification. The maps, data, and conclusion provided by AT&T Mobility to demonstrate the need for outdoor and indoor coverage and capacity have been determined by Hammett & Edison, Inc., Consulting Engineers, an engineering consultant and independent third party, to accurately represent the carrier's present and post-installation conclusions.

12. Maintenance Schedule. The facility would operate without on-site staff but with a maintenance crew visiting the property to service and monitor the facility.

7. **Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the Planning Code in the following manner:

    A. Per Planning Code Section 210.1 and 211.2, a Conditional Use Authorization is required for a macro WTS facility (Utility and Infrastructure Use).

8. **Conditional Use Findings.** Planning Code Section 303 establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use authorization. On balance, the project complies with said criteria in that:

The proposed new uses and building, at the size and intensity contemplated and at the proposed location, will provide a development that is necessary or desirable, and compatible with, the neighborhood or the community.

The Project on Caltrans PROW at 4991/066 is generally desirable and compatible with the surrounding neighborhood because the Project will not conflict with the existing use of the PROW and will be designed to be compatible with the surrounding neighborhood. The overall location, setback from public streets, height and design of the proposed facility, including visible screening elements is situated so as to avoid intrusion into public vistas, and to insure harmony with the existing neighborhood character and promote public safety.

The Project is necessary in order to achieve sufficient mobile phone coverage and data capacity. Recent drive tests in the subject area conducted by the AT&T Mobility Radio Frequency Engineering Team provide that the Project Site is a preferable location, based on factors including quality of coverage and aesthetics.

A. The proposed project will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity. There are no features of the project that could be detrimental to the health, safety or convenience of those residing or working the area, in that:

(1) Nature of proposed site, including its size and shape, and the proposed size, shape and arrangement of structures;

The Project will not significantly alter the existing appearance or character of the project vicinity.

(2) The accessibility and traffic patterns for persons and vehicles, the type and volume of such traffic, and the adequacy of proposed off-street parking and loading;

The Planning Code does not require parking or loading for a telecommunication wireless facility. The proposed use is designed to meet the needs of the immediate neighborhood and should not generate significant amounts of vehicular trips from the immediate neighborhood or citywide.

(3) The safeguards afforded to prevent noxious or offensive emissions such as noise, glare, dust and odor;

While some noise and dust may result from the installation of the antennas and transceiver equipment, noise or noxious emissions from continued use are not likely to be significantly greater than ambient conditions due to the operation of the wireless communication network.

(4) Treatment given, as appropriate, to such aspects as landscaping, screening, open spaces, parking and loading areas, service areas, lighting and signs;

The facility will not affect landscaping, open space, required parking, lighting or signage at the Project Site or surrounding area.

B. That the use as proposed will comply with the applicable provisions of the Planning Code and will not adversely affect the General Plan.

The Project complies with all relevant requirements and standards of the Planning Code and is consistent with objectives and policies of the General Plan as detailed below.

9. **General Plan Compliance.** The Project is, on balance, consistent with the following Objectives and Policies of the General Plan:

HOUSING ELEMENT

Objectives and Policies

OBJECTIVE 12
BALANCE HOUSING GROWTH WITH ADEQUATE INFRASTRUCTURE THAT SERVES THE CITY'S GROWING POPULATION.

Policy 12.2
Consider the proximity of quality of life elements such as open space, child care, and neighborhood services, when developing new housing units.

The Project will improve AT&T Mobility's coverage and capacity within the Bayview/Visitacion Valley neighborhood.

COMMERCE AND INDUSTRY ELEMENT

Objectives and Policies

OBJECTIVE 1
MANAGE ECONOMIC GROWTH AND CHANGE TO ENSURE ENHANCEMENT OF THE TOTAL CITY LIVING AND WORKING ENVIRONMENT.

Policy 1.1:
Encourage development, which provides substantial net benefits and minimizes undesirable consequences. Discourage development, which has substantial undesirable consequences that cannot be mitigated.

Policy 1.2:
Assure that all commercial and industrial uses meet minimum, reasonable performance standards.

OBJECTIVE 2
MAINTAIN AND ENHANCE A SOUND AND DIVERSE ECONOMIC BASE AND FISCAL STRUCTURE FOR THE CITY.

Policy 2.1:
Seek to retain existing commercial and industrial activity and to attract new such activity to the city.

Policy 2.3:
Maintain a favorable social and cultural climate in the city in order to enhance its attractiveness as a firm location.

OBJECTIVE 4
IMPROVE THE VIABILITY OF EXISTING INDUSTRY IN THE CITY AND THE ATTRACTIVENESS OF THE CITY AS A LOCATION FOR NEW INDUSTRY.

Policy 4.1:
Maintain and enhance a favorable business climate in the City.

Policy 4.2:
Promote and attract those economic activities with potential benefit to the City.

OBJECTIVE 8
ENHANCE SAN FRANCISCO'S POSITION AS A NATIONAL CENTER FOR CONVENTIONS AND VISITOR TRADE.

Policy 8.3:
Assure that areas of particular visitor attraction are provided with adequate public services for both residents and visitors.

The Project will enhance the total city living and working environment by providing communication services for residents and workers within the City. Additionally, the Project would comply with Federal, State and Local performance standards. The Site will be an integral part of a new wireless communications network that will enhance the City's diverse economic base. The Project will benefit the City by enhancing the business climate through improved communication services for residents and workers. The Project will ensure that residents and visitors have adequate public service in the form of AT&T Mobility telecommunications.

COMMUNITY SAFETY ELEMENT

Objectives and Policies

OBJECTIVE 3
ESTABLISH STRATEGIES TO ADDRESS THE IMMEDIATE EFFECTS OF A DISASTER.

Policy 1.20:
Increase communication capabilities in preparation for all phases of a disaster and ensure communication abilities extend to hard-to-reach areas and special populations.

Policy 2.4:
Bolster the Department of Emergency Management's role as the City's provider of emergency planning and communication, and prioritize its actions to meet the needs of San Francisco.

Policy 2.15
Utilize advancing technology to enhance communication capabilities in preparation for all phases of a disaster, particularly in the high-contact period immediately following a disaster.

Policy 3.7:
Develop a system to convey personalized information during and immediately after a disaster.

10. **Planning Code Section 101.1(b)** establishes eight priority-planning policies and requires review of permits for consistency with said policies. On balance, the project complies with said policies in that:

    A. That existing neighborhood-serving retail uses be preserved and enhanced and future opportunities for resident employment in and ownership of such businesses be enhanced.

    The wireless communications network will enhance personal communication services for businesses and customers in the surrounding area.

    B. That existing housing and neighborhood character be conserved and protected in order to preserve the cultural and economic diversity of our neighborhoods.

    No residential uses will be displaced or altered in any way by the granting of this Authorization.

    C. That the City's supply of affordable housing be preserved and enhanced,

    The Project will have no adverse effect on housing in the vicinity.

    D. That commuter traffic not impede MUNI transit service or overburden our streets or neighborhood parking.

    Due to the nature of the Project and minimal maintenance or repair, municipal transit service will not be significantly impeded and neighborhood parking will not be overburdened.

    E. That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for resident employment and ownership in these sectors be enhanced.

    The Project will not cause any displacement of industrial and service sector activity.

    F. That the City achieve the greatest possible preparedness to protect against injury and loss of life in an earthquake.

The Project will be designed and will be constructed to conform to the structural and seismic safety requirements of the Building Code. This proposal will not impact the property's ability to withstand an earthquake.

G. That landmarks and historic buildings be preserved.

Currently, the Project Site does not contain any City Landmarks or historic buildings.

H. That our parks and open space and their access to sunlight and vistas be protected from development.

The Project will not adversely affect parks or open space, nor their access to sunlight or public vistas.

11. The Project is consistent with and would promote the general and specific purposes of the Code provided under Section 101.1(b) in that, as designed, the Project would contribute to the character and stability of the neighborhood and would constitute a beneficial development.

12. The Commission hereby finds that approval of the Conditional Use Authorization would promote the health, safety and welfare of the City.

DECISION

That based upon the Record, the submissions by the Applicant, the staff of the Department and other interested parties, the oral testimony presented to this Commission at the public hearings, and all other written materials submitted by all parties, the Commission hereby **APPROVES Conditional Use Authorization Application No. 2018-009545CUA** subject to the following conditions attached hereto as "EXHIBIT A" in general conformance with plans on file, dated September 14, 2020, and stamped "EXHIBIT B", which is incorporated herein by reference as though fully set forth.

APPEAL AND EFFECTIVE DATE OF MOTION: Any aggrieved person may appeal this Conditional Use Authorization to the Board of Supervisors within thirty (30) days after the date of this Motion. The effective date of this Motion shall be the date of this Motion if not appealed (after the 30-day period has expired) OR the date of the decision of the Board of Supervisors if appealed to the Board of Supervisors. For further information, please contact the Board of Supervisors at (415) 554-5184, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

Protest of Fee or Exaction: You may protest any fee or exaction subject to Government Code Section 66000 that is imposed as a condition of approval by following the procedures set forth in Government Code Section 66020. The protest must satisfy the requirements of Government Code Section 66020(a) and must be filed within 90 days of the date of the first approval or conditional approval of the development referencing the challenged fee or exaction. For purposes of Government Code Section 66020, the date of imposition of the fee shall be the date of the earliest discretionary approval by the City of the subject development.

If the City has not previously given Notice of an earlier discretionary approval of the project, the Planning Commission's adoption of this Motion, Resolution, Discretionary Review Action or the Zoning Administrator's Variance Decision Letter constitutes the approval or conditional approval of the development and the City hereby gives NOTICE that the 90-day protest period under Government Code Section 66020 has begun. If the City has already given Notice that the 90-day approval period has begun for the subject development, then this document does not re-commence the 90-day approval period.

I hereby certify that the Planning Commission ADOPTED the foregoing Motion on December 10, 2020.

Jonas P. Ionin
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: December 10, 2020

EXHIBIT A

Authorization

This authorization is for a conditional use to allow a wireless telecommunications facility (d.b.a. AT&T Mobility) located at [Caltrans PROW, Block 4991, and Lot 066] pursuant to Planning Code Section(s) 303(c), 210.1 and 211.2 within the P and C-2 District and a OS Height and Bulk District; in general conformance with plans, dated September 14, 2020, and stamped "EXHIBIT B" included in the docket for Record No. 2018-009545CUA and subject to conditions of approval reviewed and approved by the Commission on December 10, 2020 under Motion No XXXXXX. This authorization and the conditions contained herein run with the property and not with a particular Project Sponsor, business, or operator.

Recordation of Conditions Of Approval

Prior to the issuance of the building permit or commencement of use for the Project the Zoning Administrator shall approve and order the recordation of a Notice in the Official Records of the Recorder of the City and County of San Francisco for the subject property. This Notice shall state that the project is subject to the conditions of approval contained herein and reviewed and approved by the Planning Commission on December 10, 2020 under Motion No XXXXXX.

Printing of Conditions of Approval on Plans

The conditions of approval under the 'Exhibit A' of this Planning Commission Motion No. XXXXXX shall be reproduced on the Index Sheet of construction plans submitted with the site or building permit application for the Project. The Index Sheet of the construction plans shall reference to the Conditional Use authorization and any subsequent amendments or modifications.

Severability

The Project shall comply with all applicable City codes and requirements. If any clause, sentence, section or any part of these conditions of approval is for any reason held to be invalid, such invalidity shall not affect or impair other remaining clauses, sentences, or sections of these conditions. This decision conveys no right to construct, or to receive a building permit. "Project Sponsor" shall include any subsequent responsible party.

Changes and Modifications

Changes to the approved plans may be approved administratively by the Zoning Administrator. Significant changes and modifications of conditions shall require Planning Commission approval of a new Conditional Use authorization.

CONDITIONS OF APPROVAL, COMPLIANCE, MONITORING, AND REPORTING

Performance

1. **Validity.** The authorization and right vested by virtue of this action is valid for three (3) years from the effective date of the Motion. The Department of Building Inspection shall have issued a Building Permit or Site Permit to construct the project and/or commence the approved use within this three-year period.

   For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

2. **Expiration and Renewal.** Should a Building or Site Permit be sought after the three (3) year period has lapsed, the project sponsor must seek a renewal of this Authorization by filing an application for an amendment to the original Authorization or a new application for Authorization. Should the project sponsor decline to so file, and decline to withdraw the permit application, the Commission shall conduct a public hearing in order to consider the revocation of the Authorization. Should the Commission not revoke the Authorization following the closure of the public hearing, the Commission shall determine the extension of time for the continued validity of the Authorization.

   For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

3. **Diligent Pursuit.** Once a site or Building Permit has been issued, construction must commence within the timeframe required by the Department of Building Inspection and be continued diligently to completion. Failure to do so shall be grounds for the Commission to consider revoking the approval if more than three (3) years have passed since this Authorization was approved.

   For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

4. **Extension.** All time limits in the preceding three paragraphs may be extended at the discretion of the Zoning Administrator where implementation of the project is delayed by a public agency, an appeal or a legal challenge and only by the length of time for which such public agency, appeal or challenge has caused delay.

   For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

5. **Conformity with Current Law.** No application for Building Permit, Site Permit, or other entitlement shall be approved unless it complies with all applicable provisions of City Codes in effect at the time of such approval.

For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

Design – Compliance at Plan Stage

6. **Final Materials.** The Project Sponsor shall continue to work with Planning Department on the building design. Final materials, glazing, color, texture, landscaping, and detailing shall be subject to Department staff review and approval. The architectural addenda shall be reviewed and approved by the Planning Department prior to issuance.

   For information about compliance, contact the Case Planner, Planning Department at 628.652.7360, www.sfplanning.org

7. **Plan Drawings - WTS.** Prior to the issuance of any building or electrical permits for the installation of the facilities, the Project Sponsor shall submit final scaled drawings for review and approval by the Planning Department ("Plan Drawings"). The Plan Drawings shall describe:

   A. Structure and Siting. Identify all facility related support and protection measures to be installed. This includes, but is not limited to, the location(s) and method(s) of placement, support, protection, screening, paint and/or other treatments of the antennas and other appurtenances to insure public safety, insure compatibility with urban design, architectural and historic preservation principles, and harmony with neighborhood character.

   B. For the Project Site, regardless of the ownership of the existing facilities. Identify the location of all existing antennas and facilities; and identify the location of all approved (but not installed) antennas and facilities.

   C. Emissions. Provide a report, subject to approval of the Zoning Administrator, that operation of the facilities in addition to ambient RF emission levels will not exceed adopted FCC standards with regard to human exposure in uncontrolled areas.

   For information about compliance, contact the Case Planner, Planning Department at 628.652.7360, www.sfplanning.org

8. **Screening - WTS.** To the extent necessary to ensure compliance with adopted FCC regulations regarding human exposure to RF emissions, and upon the recommendation of the Zoning Administrator, the Project Sponsor shall:

   A. Modify the placement of the facilities;

   B. Install fencing, barriers or other appropriate structures or devices to restrict access to the facilities;

   C. Install multi-lingual signage, including the RF radiation hazard warning symbol identified in ANSI C95.2 1982, to notify persons that the facility could cause exposure to RF emissions;

D. Implement any other practice reasonably necessary to ensure that the facility is operated in compliance with adopted FCC RF emission standards.

E. To the extent necessary to minimize visual obtrusion and clutter, installations shall conform to the following standards:

F. Antennas and back up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual effects;

G. Rooftop installations shall be setback such that back up facilities are not viewed from the street;

H. Antennae attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and

I. Although co location of various companies' facilities may be desirable, a maximum number of antennas and back up facilities on the Project Site shall be established, on a case by case basis, such that "antennae farms" or similar visual intrusions for the site and area is not created.

J. Install the Wireless Telecommunications Facility, per Exhibit B (plans), such that the antennas are proposed in Caltrans PROW, setback approximately 50' from the property line adjacent Executive Park Blvd, and 203.7 feet away from the closest commercial building to the north east. Nine (9) Panel antennas will be attached to and screened within a monoeucalyptus. The monoeucalyptus shall be approximately 30 feet in diameter, with branches starting at 15 feet AGL, and branches separated approximately 3 feet -4 inches apart. Ancillary equipment shall be in a 30 foot by 12 foot area, screened within a 9 foot – 4 inch tall FRP paneling enclosure with faux CMU finish at ground level. Three (3) new trees are to be planted around the proposed facility for additional screening.

For information a bout compliance, contact the Case Planner, Planning Department at 628.652.7360, www.sfplanning.org

Monitoring - After Entitlement

9. **Enforcement.** Violation of any of the Planning Department conditions of approval contained in this Motion or of any other provisions of Planning Code applicable to this Project shall be subject to the enforcement procedures and administrative penalties set forth under Planning Code Section 176 or Section 176.1. The Planning Department may also refer the violation complaints to other city departments and agencies for appropriate enforcement action under their jurisdiction.

   For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

10. **Revocation due to Violation of Conditions.** Should implementation of this Project result in complaints from interested property owners, residents, or commercial lessees which are not resolved by the Project Sponsor and found to be in violation of the Planning Code and/or the specific conditions of approval for the Project as set forth in Exhibit A of this Motion, the Zoning Administrator shall refer such complaints to the

Commission, after which it may hold a public hearing on the matter to consider revocation of this authorization.

For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

11. **Implementation Costs - WTS.** The Project Sponsor, on an equitable basis with other WTS providers, shall pay the cost of preparing and adopting appropriate General Plan policies related to the placement of WTS facilities. Should future legislation be enacted to provide for cost recovery for planning, the Project Sponsor shall be bound by such legislation.

    The Project Sponsor or its successors shall be responsible for the payment of all reasonable costs associated with implementation of the conditions of approval contained in this authorization, including costs incurred by this Department, the Department of Public Health, the Department of Technology, Office of the City Attorney, or any other appropriate City Department or agency. The Planning Department shall collect such costs on behalf of the City.

    The Project Sponsor shall be responsible for the payment of all fees associated with the installation of the subject facility, which are assessed by the City pursuant to all applicable law.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

12. **Implementation and Monitoring - WTS.** In the event that the Project implementation report includes a finding that RF emissions for the site exceed FCC Standards in any uncontrolled location, the Zoning Administrator may require the Applicant to immediately cease and desist operation of the facility until such time that the violation is corrected to the satisfaction of the Zoning Administrator.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

13. **Project Implementation Report - WTS.** The Project Sponsor shall prepare and submit to the Zoning Administrator a Project Implementation Report. The Project Implementation Report shall:

    A. Identify the three dimensional perimeter closest to the facility at which adopted FCC standards for human exposure to RF emissions in uncontrolled areas are satisfied;

    B. Document testing that demonstrates that the facility will not cause any potential exposure to RF emissions that exceed adopted FCC emission standards for human exposure in uncontrolled areas.

    C. The Project Implementation Report shall compare test results for each test point with applicable FCC standards. Testing shall be conducted in compliance with FCC regulations governing the measurement of RF emissions and shall be conducted during normal business hours on a non-holiday weekday with the subject equipment measured while operating at maximum power.

    D. Testing, Monitoring, and Preparation. The Project Implementation Report shall be prepared by a

certified professional engineer or other technical expert approved by the Department. At the sole option of the Department, the Department (or its agents) may monitor the performance of testing required for preparation of the Project Implementation Report. The cost of such monitoring shall be borne by the Project Sponsor pursuant to the condition related to the payment of the City's reasonable costs.

E. Notification and Testing. The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 2 and 4.

F. Approval. The Zoning Administrator shall request that the Certification of Final Completion for operation of the facility not be issued by the Department of Building Inspection until such time that the Project Implementation Report is approved by the Department for compliance with these conditions.

For information about compliance, contact the Environmental Health Section, Department of Public Health at 415.252.3800, www.sfdph.org

14. **Coverage and Capacity Verification.** Use is authorized as long as an independent evaluator, selected by the Planning Department, determines that the information and conclusions submitted by the wireless service provider in support of its request for conditional use are accurate. The wireless service provider shall fully cooperate with the evaluator and shall provide any and all data requested by the evaluator to allow the evaluator to verify that the maps, data, and conclusions about service coverage and capacity submitted are accurate. The wireless service provider shall bear all costs of said evaluation. The independent evaluator, upon request by the wireless service provider shall keep the submitted data confidential and shall sign a confidentiality agreement acceptable to the wireless service provider. The independent evaluator shall be a professional engineer licensed by the State of California.

    For information about compliance, contact the Case Planner, Planning Department at 628.652.7360, www.sfplanning.org

15. **Notification prior to Project Implementation Report - WTS.** The Project Sponsor shall undertake to inform and perform appropriate tests for residents of any dwelling units located within 25 feet of the transmitting antenna at the time of testing for the Project Implementation Report.

    A. At least twenty calendar days prior to conducting the testing required for preparation of the Project Implementation Report, the Project Sponsor shall mail notice to the Department, as well as to the resident of any legal dwelling unit within 25 feet of a transmitting antenna of the date on which testing will be conducted. The Applicant will submit a written affidavit attesting to this mail notice along with the mailing list.

    B. When requested in advance by a resident notified of testing pursuant to subsection (a), the Project Sponsor shall conduct testing of total power density of RF emissions within the residence of that resident on the date on which the testing is conducted for the Project Implementation Report.

16. *For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org*

17. **Installation - WTS.** Within 10 days of the installation and operation of the facilities, the Project Sponsor shall confirm in writing to the Zoning Administrator that the facilities are being maintained and operated in compliance with applicable Building, Electrical and other Code requirements, as well as applicable FCC emissions standards.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

    Periodic Safety Monitoring - WTS. The Project Sponsor shall submit to the Zoning Administrator 10 days after installation of the facilities, and every two years thereafter, a certification attested to by a licensed engineer expert in the field of EMR/RF emissions, that the facilities are and have been operated within the then current applicable FCC standards for RF/EMF emissions.

    For information about compliance, contact the Environmental Health Section, Department of Public Health at 415.252.3800, www.sfdph.org

Operation

18. **Community Liaison.** Prior to issuance of a building permit to construct the project and implement the approved use, the Project Sponsor shall appoint a community liaison officer to deal with the issues of concern to owners and occupants of nearby properties. The Project Sponsor shall provide the Zoning Administrator and all registered neighborhood groups for the area with written notice of the name, business address, and telephone number of the community liaison. Should the contact information change, the Zoning Administrator and registered neighborhood groups shall be made aware of such change. The community liaison shall report to the Zoning Administrator what issues, if any, are of concern to the community and what issues have not been resolved by the Project Sponsor.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

19. **Out of Service – WTS.** The Project Sponsor or Property Owner shall remove antennae and equipment that has been out of service or otherwise abandoned for a continuous period of six months.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

20. **Emissions Conditions – WTS.** It is a continuing condition of this authorization that the facilities be operated in such a manner so as not to contribute to ambient RF/EMF emissions in excess of then current FCC adopted RF/EMF emission standards; violation of this condition shall be grounds for revocation.

    For information about compliance, contact the Environmental Health Section, Department of Public Health at 415.252.3800, www.sfdph.org

21. **Noise and Heat – WTS.** The WTS facility, including power source and cooling facility, shall be operated at all times within the limits of the San Francisco Noise Control Ordinance. The WTS facility, including power source and any heating/cooling facility, shall not be operated so as to cause the generation of heat that

adversely affects a building occupant.

For information about compliance, contact the Environmental Health Section, Department of Public Health at 415.252.3800, www.sfdph.org

22. **Transfer of Operation – WTS.** Any carrier/provider authorized by the Zoning Administrator or by the Planning Commission to operate a specific WTS installation may assign the operation of the facility to another carrier licensed by the FCC for that radio frequency provided that such transfer is made known to the Zoning Administrator in advance of such operation, and all conditions of approval for the subject installation are carried out by the new carrier/provider.

    For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, www.sfplanning.org

23. **Compatibility with City Emergency Services – WTS.** The facility shall not be operated or caused to transmit on or adjacent to any radio frequencies licensed to the City for emergency telecommunication services such that the City's emergency telecommunications system experiences interference, unless prior approval for such has been granted in writing by the City.

    For information about compliance, contact the Department of Technology, 415.581.4000, http://sfgov3.org/index.aspx?page=1421

SITE NUMBER: CCL04382
SITE NAME: RSFR NSB
CCL04382 CANDLESTICK RELO
SEARCH RING: HWY101 NORTH - CAL TRANS

INTERSECTION OF ALANNA WAY & EXECUTIVE PARK BLVD.

SAN FRANCISCO, CA 94134
JURISDICTION: CITY OF SAN FRANCISCO

SITE TYPE: MONOEUCALYPTUS / WIC

PROJECT DESCRIPTION

CONSTRUCTION OF AN UNMANNED TELECOMMUNICATIONS FACILITY.

1. INSTALL AT&T 80" X 80" STEEL W.I.C. SHELTER ON RAISED STEEL PLATFORM
2. INSTALL AT&T MONOEUCALYPTUS (70'-0")
3. INSTALL (9) PANEL ANTENNAS (3) PER SECTOR ON MONOEUCALYPTUS
4. INSTALL (15) NEW RRH, TOTAL OF (5) PER SECTOR
5. INSTALL (3) NEW SURGE SUPPRESSION UNITS
6. INSTALL (1) GPS ANTENNA
7. INSTALL (3) 23" RACKS (HYBRID RACK, LTE RACK, & DC POWER PLANT)
8. INSTALL 15KW POLAR DC GENERATOR W/ 54 GALLON TANK
9. INSTALL 1PH 25KVA STEP DOWN TRANS AT RAISED PLATFORM
10. INSTALL F.R.P. PANELING ENCLOSURE WITH CMU TYP. FINISH, ON (P) RAISED STEEL PLATFORM
11. INSTALL CHAIN LINK FENCE ACCESS GATE
12. PLANT (3) (P) 24" BOX TREES, LOCATION AND SPECIES T.B.D.

PROJECT INFORMATION

PROPERTY INFORMATION:
SITE NAME: RSFR NSB CCL04382 CANDLESTICK RELO

SITE NUMBER: CCL04382

SEARCH RING: HWY101 NORTH - CAL TRANS

FA#: 13397984

SITE ADDRESS:
INTERSECTION OF Alanna Way
& EXECUTIVE PARK BLVD.
San Francisco, CA 94134

A.P.N. NUMBER: 4991-066

CURRENT ZONING:
P - Public, C-2 - Community Buisness

PROPOSED USE: U

JURISDICTION: City of San Francisco

LATITUDE: N 37° 42' 34.98"
LONGITUDE: W 122° 23' 41.47"
GROUND ELEVATION: 33.5' AMSL

Property Owner:
CAL-TRANS DISTRICT IV
111 GRAND AVENUE
OAKLAND, CA 94612

POWER AGENCY:
PG&E CORPORATION
1 MARKET STREET, SPEAR TOWER
SAN FRANCISCO, CA 94105-1126
ph: (800) 743-5000

Telephone Agency:
AT&T CALIFORNIA
525 MARKET STREET
SAN FRANCISCO, CA 94105
ph: (800) 310-2355

PROJECT TEAM

Applicant/ Lessee:
AT&T MOBILITY
5001 EXECUTIVE PARKWAY, 4W5501
SAN RAMON, CA 94583
Contact: ALYSSA FERRIS
email: ab7224@att.com
ph: (530) 699-2612
fax:

Design Professional:
BORGES ARCHITECTURAL GROUP, INC.
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE, CA 95661
contact: DAVID GOMEZ
email: david@borgesarch.com
email: telecomgroup@borgesarch.com
ph: (916) 782-7200
fax: (916) 773-3037

Site Acquisition:
J5 INFRASTRUCTURE PARTNERS
contact: MICHAEL GUIGLOTTO
email: mguiglotto@J5ip.com
cell: (415) 225-6667

Structural Engineer:
PZSE STRUCTURAL ENGINEERS
1478 STONE POINT DR. SUITE 190
ROSEVILLE, CA 95661
contact: PAUL ZACHER
email: paul@pzse.com
ph: (916) 961-3960

ZONING MANAGER - NSB:
J5 INFRASTRUCTURE PARTNERS
contact: MISAKO HILL
email: mhill@J5ip.com
cell: (415) 533-2540

RF Engineer:
NP&E-RAN DESIGN & RF ENGINEERING
contact: ALEXANDER KERRIGAN
email: ea5477@att.com
ph: (909) 997-9917

CONSTRUCTION MANAGER:
BECHTEL
contact: ROSS GOMPERTZ
email: rlgomper@bechtel.com
cell: (714) 396-4820

SHEET INDEX

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) 2016 CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 10, PART 1, TITLE 24 CODE OF REGULATIONS
2) 2016 CALIFORNIA BUILDING CODE (CBC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2012 IBC (PART 2, VOL 1-2)
3) 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN) (PART 11) (AFFECTED ENERGY PROVISIONS ONLY
4) 2016 CALIFORNIA FIRE CODE (CFC), BASED ON THE 2012 IFC, WITH CALIFORNIA AMENDMENTS (PART 9)
5) 2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2012 UMC (PART 4)
6) 2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2012 UPC (PART 5)
7) 2016 CALIFORNIA ELECTRICAL CODE (CEC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2011 NEC (PART 3)
8) 2016 CALIFORNIA ENERGY CODE (CEC)
9) ANSI / EIA-TIA-222-H
10) 2016 NFPA 101, LIFE SAFETY CODE
11) 2016 NFPA 72, NATIONAL FIRE ALARM CODE
12) 2016 NFPA 13, FIRE SPRINKLER CODE

VICINITY MAP

DIRECTIONS FROM AT&T

DIRECTIONS FROM AT&T's OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA

1. TURN RIGHT ONTO CAMINO RAMON
2. TURN RIGHT ONTO BOLLINGER CANYON RD
3. TAKE RAMP RIGHT FOR I-680 NORTH TOWARD SACRAMENTO
4. TAKE RAMP RIGHT FOR CA-24 TOWARD OAKLAND / LAFAYETTE
5. TAKE RAMP RIGHT FOR I-580 WEST TOWARD SACRAMENTO / SAN FRANCISCO
6. TAKE RAMP LEFT FOR I-80 WEST TOWARD SAN FRANCISCO
   TOLL ROAD
7. KEEP STRAIGHT ONTO US-101 S
8. AT EXIT429A, TAKE RAMP RIGHT TOWARD CANDLESTICK PARK / TUNNEL AVE
9. TURN RIGHT ONTO ALANNA RD
10. TURN LEFT ONTO EXECUTIVE PARK BLVD DESTINATION WILL BE ON THERIGHT

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY : U (UNMANNED)

CONSTRUCTION TYPE: V-B

DISABLED ACCESS REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5

SPECIAL INSPECTIONS

APPROVALS

APPROVED BY:	INITIALS:	DATE:
AT&T:		
VENDOR:		
R.F.:		
LEASING / LANDLORD:		
ZONING:		
CONSTRUCTION:		
POWER / TELCO:		
PG&E:		

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE 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.

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

AT&T Site ID: **CCL04382**

Consultant:
J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR
at&t
5001 Executive Parkway
San Ramon, California 94583

Architect:
Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
DRAWN BY:	JVM
CHECKED BY:	JES

REV	DATE	DESCRIPTION
H	09/14/20	PHOTO SIM REVS
G	09/02/20	100% ZD ELEC REV
F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

Licensor:

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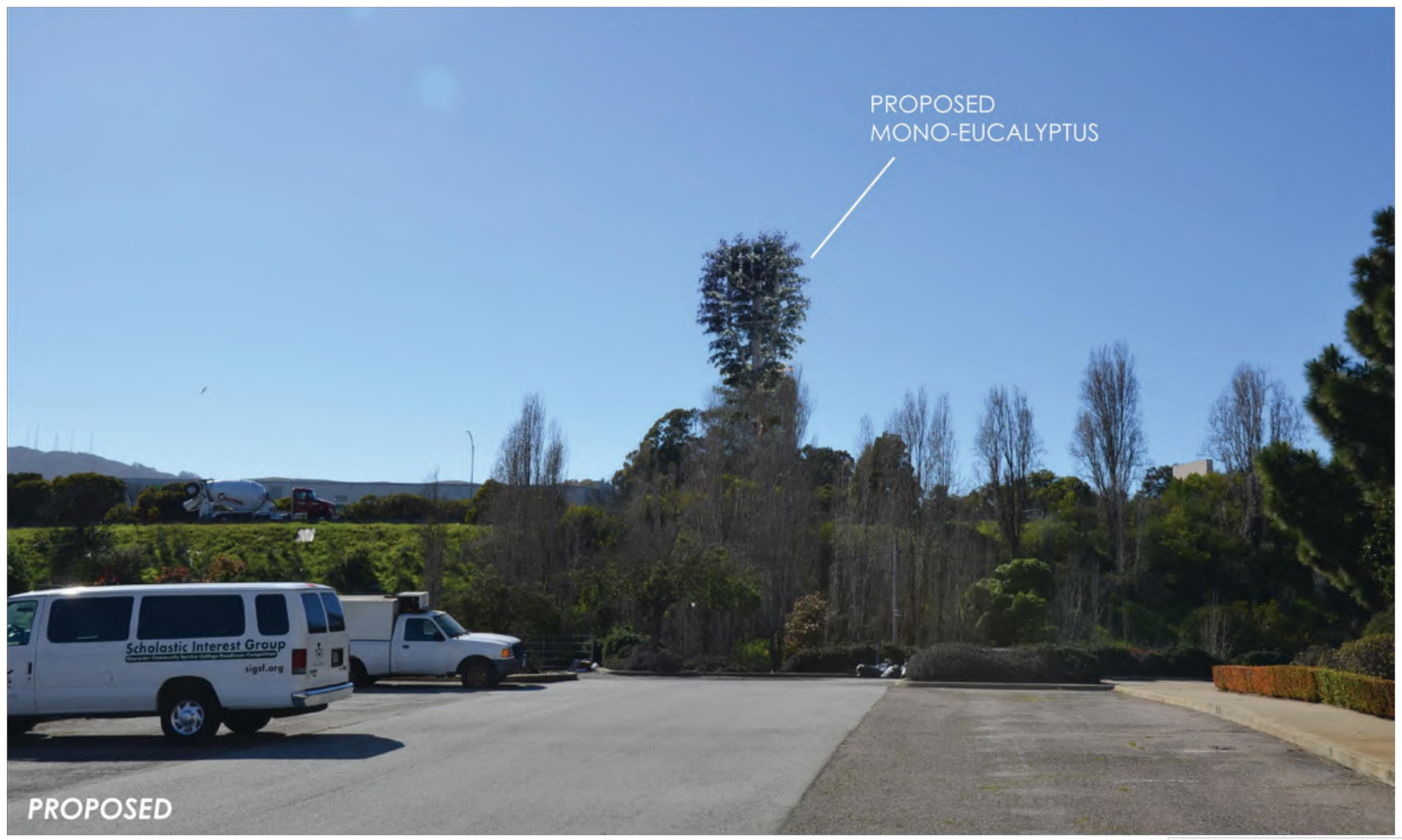
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

Plot Date:9/15/2020 10:19:33 AM File NameT:\2018\T-18510_J5_ATT_NSB\CCL04382-01\Candlestick Relo\Sheets\Building A\A-001 Title Sheet.dwg Plotted By:John McDonnell



PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 2**

PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 1**

AT&T Site ID:

CCL04382

Consultant:

J5
INFRASTRUCTURE
PARTNERS
1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR

at&t

5001 Executive Parkway
San Ramon, California 94583

Architect:

ARCHITECTURAL GROUP Borges

borgesarch.com

1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661

916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
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SHEET TITLE:

PHOTO SIMS

SHEET NUMBER:

PS-1.1

PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 3**

at&t

AT&T Site ID:

CCL04382

Consultant:

J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD. #259
ALAMEDA, CA 94501

PREPARED FOR

at&t

5001 Executive Parkway
San Ramon, California 94583

Architect:

Borges ARCHITECTURAL GROUP

borgesarch.com

1478 STONE POINT DRIVE, SUITE 350
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SHEET TITLE:

PHOTO SIMS

SHEET NUMBER:

PS-1.2

PHOTOSIMULATION

CCL04382 | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEWS**

at&t

AT&T Site ID:
CCL04382

Consultant:
J5
INFRASTRUCTURE
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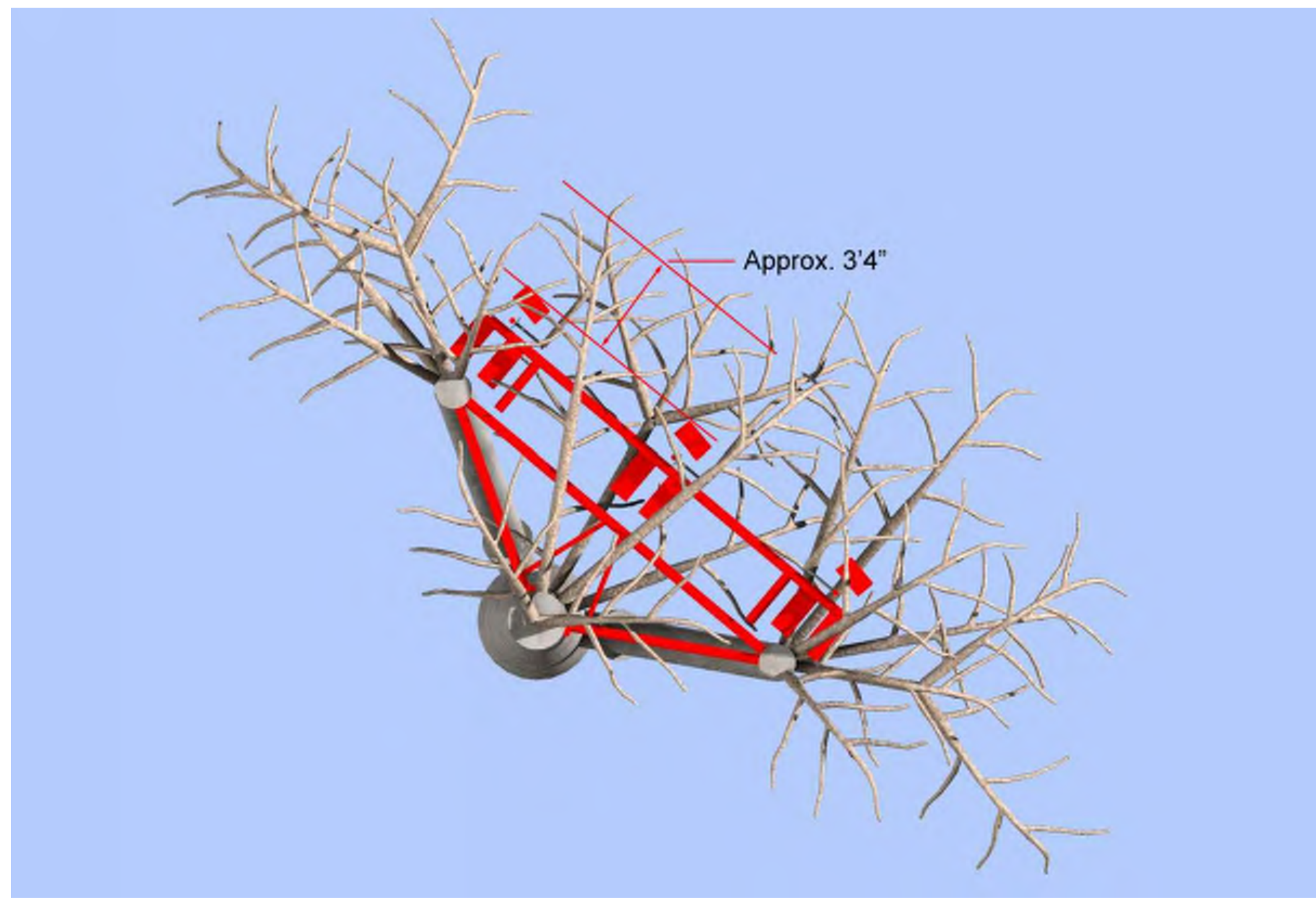
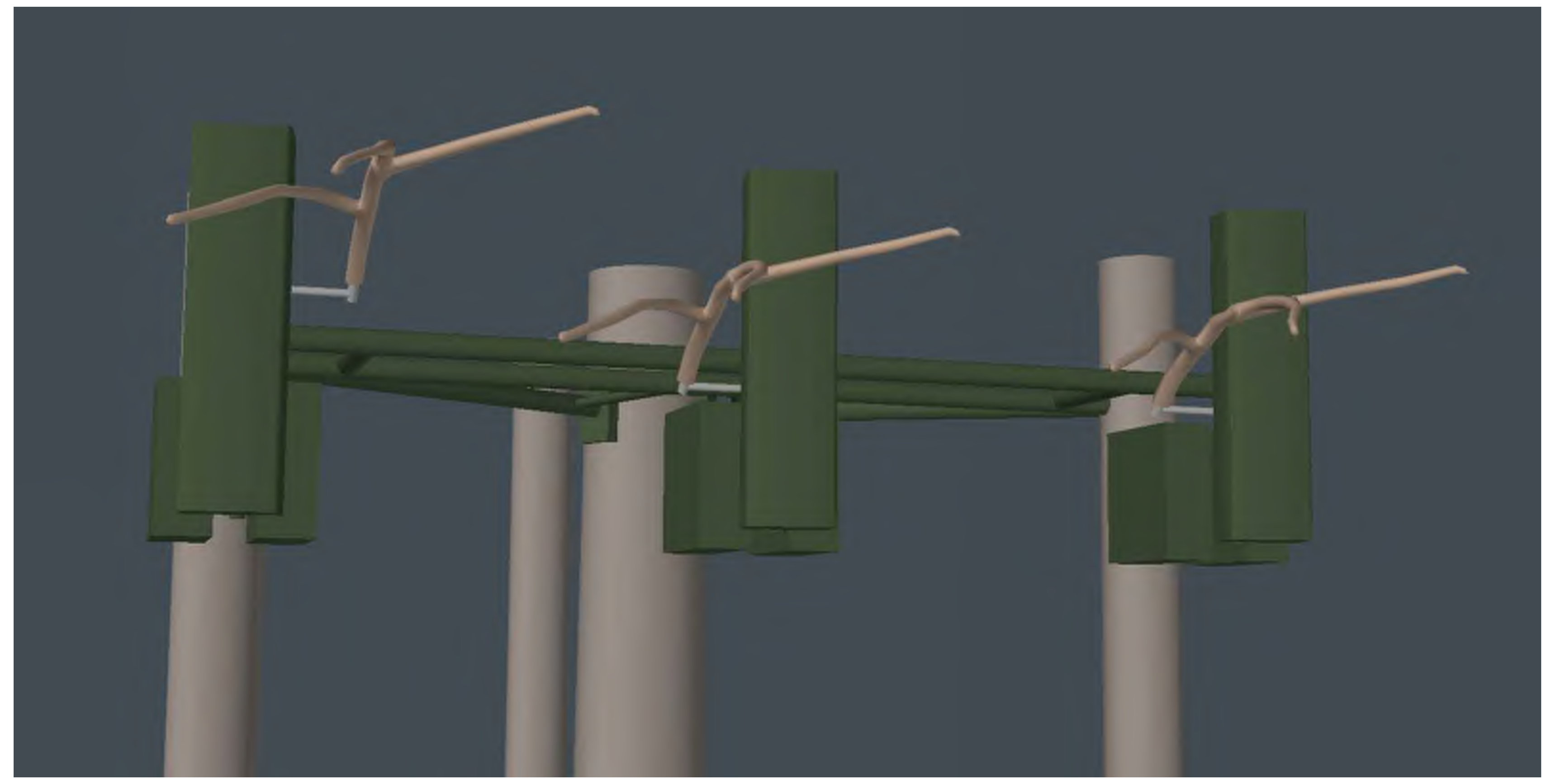
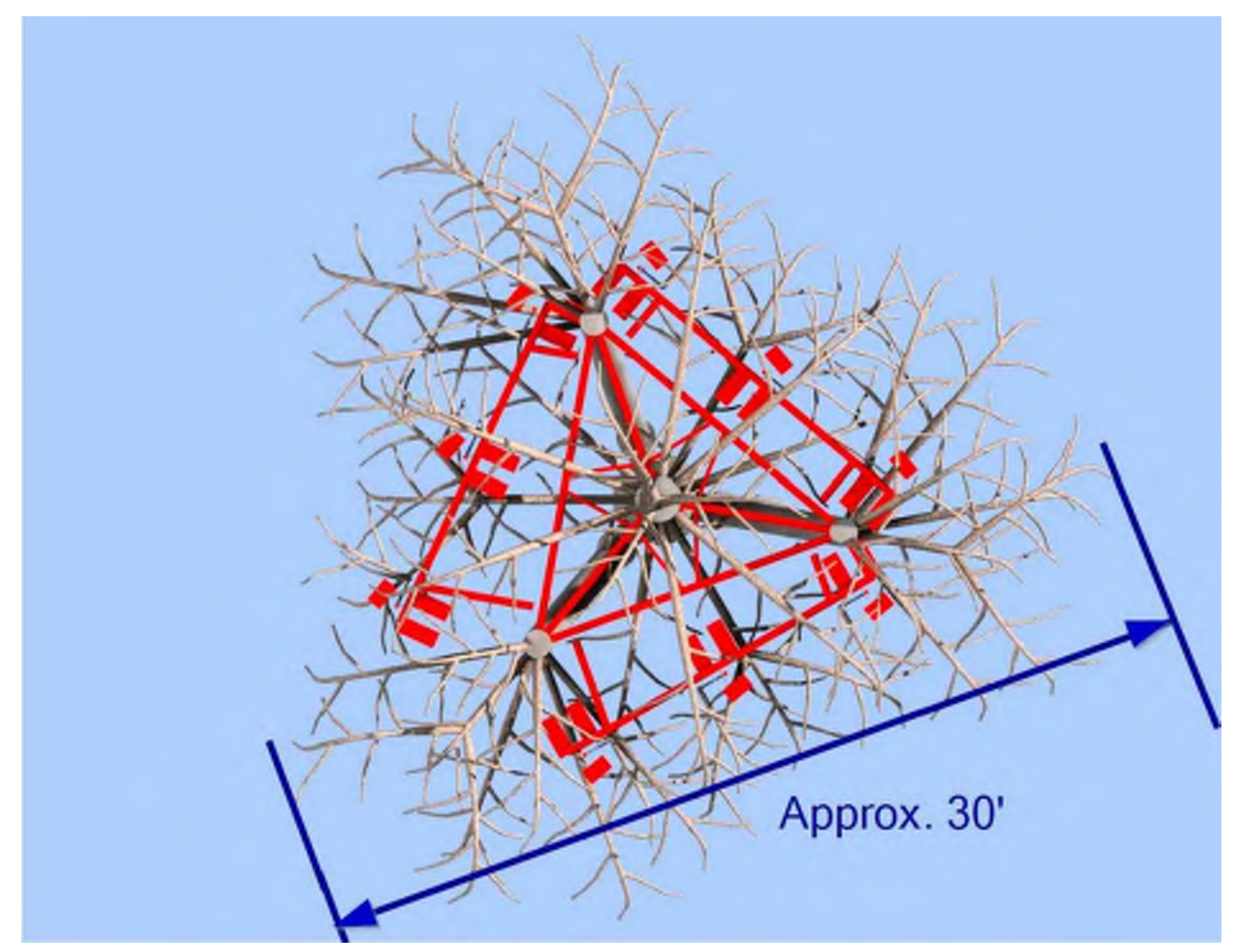
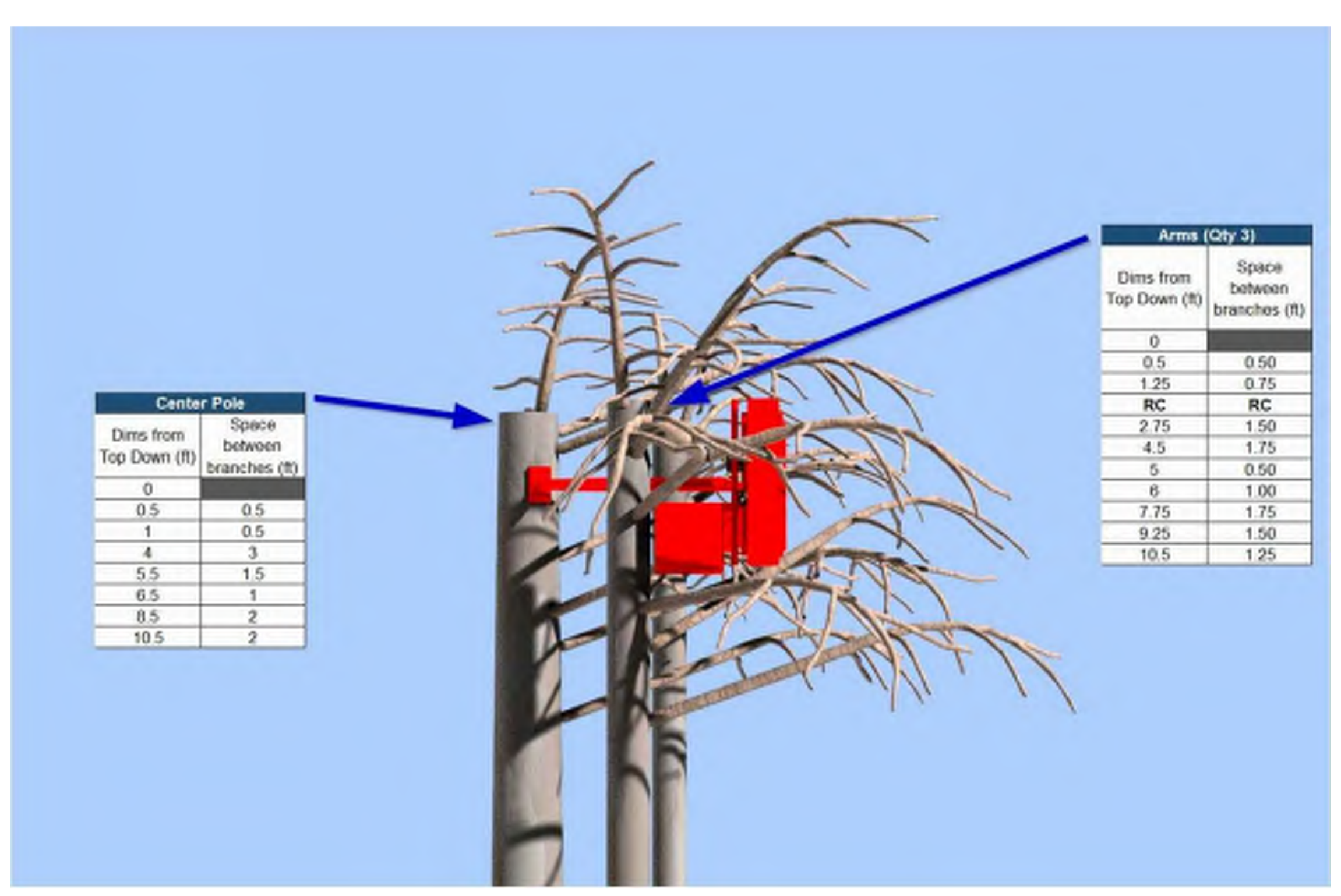
PHOTOS SIMS

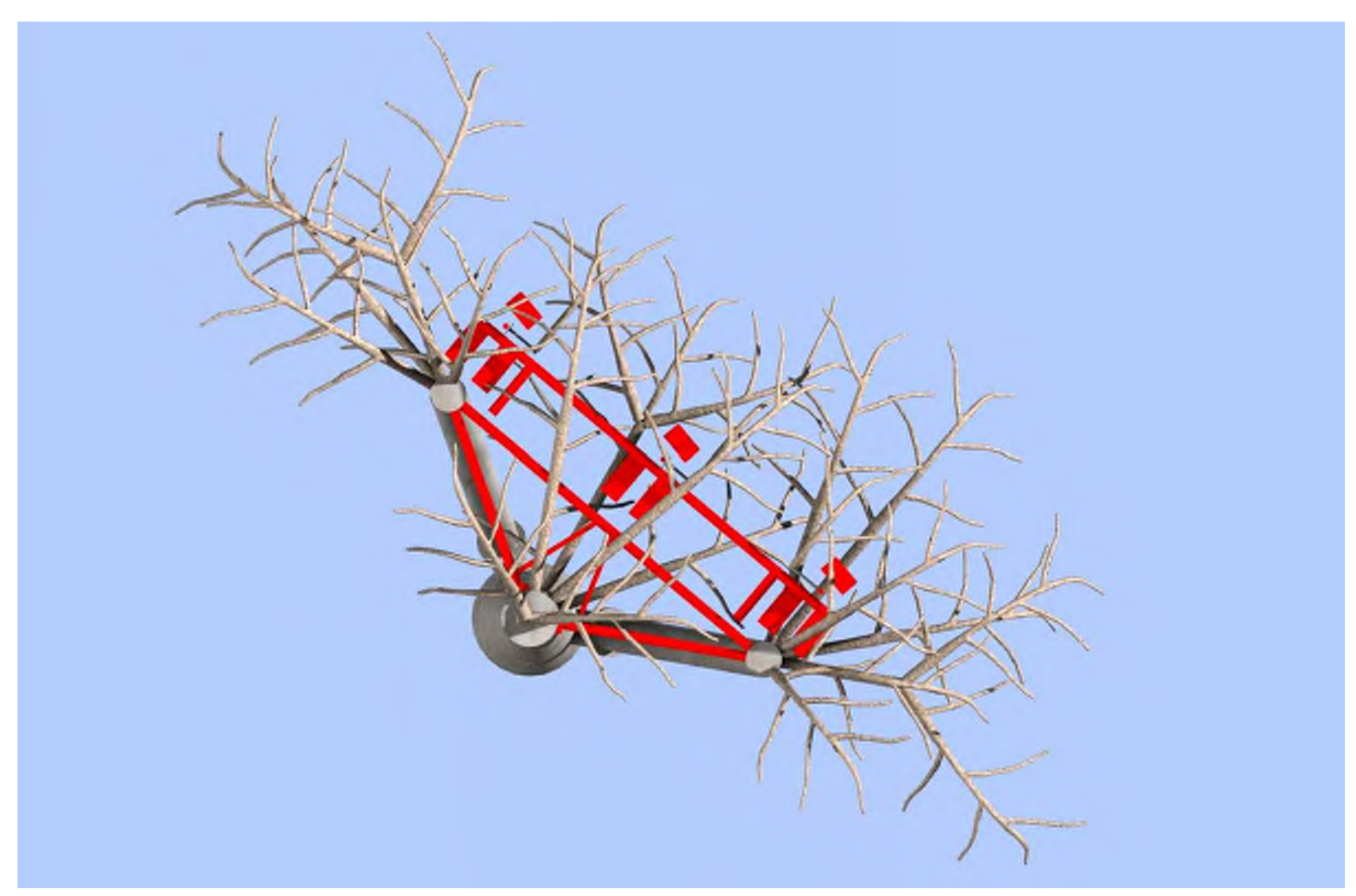
SHEET NUMBER:
PS-1.3











17 3D IMAGES
N.T.S.

Plot Date 9/15/2020 10:08:33 AM File NameT:\2018\T-18510_J5_ATT_NSB\CCL04382-01\Candlestick Relo\Sheets\Building A\PS-1.4 3D Images.dwg Plotted By:John McDonnell

AT&T Site ID:
CCL04382

Consultant:
J5 INFRASTRUCTURE PARTNERS
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SHEET TITLE:
3D IMAGES

SHEET NUMBER:
PS-1.4

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate the base station (Site No. CCL04382) proposed to be located near the intersection of Alanna Way and Executive Park Blvd in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted an 11-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such facilities with prevailing safety standards. The acceptable limits set by the FCC for exposures of unlimited duration are:

Wireless Service Band	Transmit Frequency	"Uncontrolled" Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm^2	5.0 mW/cm^2
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

Checklist

Reference has been made to information provided by AT&T, including zoning drawings by Borges Architectural Group, Inc., dated May 10, 2019. It should be noted that the calculation results in this Statement include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operations.

1. *The location, identity, and total number of all operational radiating antennas installed at this site.*

There are reported no wireless base stations installed at the site.

2. *List all radiating antennas located within 100 feet of the site that could contribute to the cumulative radio frequency energy at this location.*

There are reported no other WTS facilities within 100 feet of the site, although antennas for use by Sprint are located above the roof of the office building at 5 Thomas Mellon Circle, about 200 feet to the northeast.

3. *Provide a narrative description of the proposed work for this project.*

AT&T proposes to install nine antennas. This is consistent with the scope of work described in the drawings for transmitting elements.

4. *Provide an inventory of the make and model of antennas or transmitting equipment being installed or removed.*

AT&T proposes to install nine Quintel Model QS4458-5 directional panel antennas on a new pole, configured to resemble a tall tree, to be sited about 300 feet northwest of the intersection of Alanna Way and Executive Park Blvd, adjacent to Highway 101. The nine antennas would employ up to 16° downtilt, would be mounted at an effective height of about 68 feet above ground, and would be oriented in groups of three toward 50°T, 220°T, and 320°T.

5. *Describe the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level. This description may be based on field measurements or calculations.*

Because there are no antennas at the site presently, existing RF levels at ground and at buildings near the site are presumed to be well below the applicable public exposure limit.

6. *Provide the maximum effective radiated power per sector for the proposed installation. The power should be reported in watts and reported both as a total and broken down by frequency band.*

The maximum effective radiated power proposed by AT&T in any direction is 16,750 watts, representing simultaneous operation at 3,360 watts for WCS, 4,820 watts for AWS, 3,840 watts for PCS, 1,370 watts for cellular, and 3,360 watts for 700 MHz service.

7. *Describe the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area.*

The maximum calculated level at any nearby building from the proposed AT&T operation is 19% of the public exposure limit; this occurs at the office building at 5 Thomas Mellon Circle. Cumulative levels on the roof of that building may exceed the FCC limits, due to the Sprint operation; the AT&T proposal would not affect that condition.

8. *Report the estimated cumulative radio frequency fields for the proposed site at ground level.*

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.16 mW/cm^2, which is 25% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be well below the applicable public limit.

9. *Provide the maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas.*

The three-dimensional perimeters of RF levels equal to the public and occupational exposure limits are calculated to extend up to 86 and 36 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this does not reach any publicly accessible areas.

10. *Provide a description of whether or not the public has access to the antennas. Describe any existing or proposed warning signs, barricades, barriers, rooftop striping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards.*

Due to their mounting location and height, the AT&T antennas would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that AT&T will, as an FCC licensee, take adequate steps to ensure that its employees or contractors receive appropriate training and comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

11. *Statement of authorship and qualification.*

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2021. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by AT&T Mobility near the intersection of Alana Way and Executive Park Blvd in San Francisco, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations.

REGISTERED PROFESSIONAL ENGINEER • WILLIAM F. HAMMETT • E-13026 • M-20676 • Exp. 6-30-2021 • ELECTRICAL • MECHANICAL • STATE OF CALIFORNIA

William F. Hammett, P.E.
707/996-5200

June 11, 2019

San Francisco City and County
Department of Public Health
Environmental Health Branch

London Breed, *Mayor*
Grant Colfax, MD, *Director of Health*
Stephanie K.J. Cushing, MSPH, CHMM, REHS
Director of Environmental Health

Review of Cellular Antenna Site Proposals

Project Sponsor : *AT&T Wireless* **Planner:** *Ashley Lindsay*

RF Engineer Consultant: *Hammett & Edison* **Phone Number:** (707) 996-5200

Project Address/Location: *Intersection of Alanna Way & Executive Park Blvd.*

Site ID: 3365 **SiteNo.:** CCL04382 **Report Dated:** 6/11/2019

The following information is required to be provided before approval of this project can be made. These information requirements are established in the San Francisco Planning Department Wireless Telecommunications Services Facility Sitting Guidelines dated August 1996.

In order to facilitate quicker approval of this project, it is recommended that the project sponsor review this document before submitting the proposal to ensure that all requirements are included.

X 1. The location, identity and total number of all operational radiating antennas installed at this site was provided. (WTS-FSG, Section 10.4.1, Section 11, 2b)

Number of Existing Antennas: **0**

X 2. A list of all radiating antennas located within 100 feet of the site which could contribute to the cumulative radio frequency energy at this location was provided. (WTS-FSG, Section 10.5.2)

◉ **Yes** ○ **No**

X 3. A narrative description of the proposed work for this project was provided. The description should be consistent with scope of work for the final installation drawings. (WTS-FSG, Section 10)

◉ **Yes** ○ **No**

X 4. An inventory of the make and model of antennas or transmitting equipment being installed or removed was provided. The antenna inventory included the proposed installation height above the nearest walking/working surface, the height above ground level and the orientations of the antennas. (WTS-FSG, Section 10.5.2)

◉ **Yes** ○ **No**

X 5. A description of the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level was provided. A description of any assumptions made when doing the calculations was also provided. (WTS-FSG, Section 10.4.1a, Section 10.4.1c, Section 10.5)

◉ **Yes** ○ **No**

X 6. The maximum effective radiated power per sector for the proposed installation was provided along with the frequency bands used by the antennas. (WTS-FSG, Section 10.1.2, Section 10.5.1)

Maximum Effective Radiated Power: **16750** Watts

X 7. Based on the antenna orientation, the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area was provided. (WTS-FSG, Section 10.4, Section 10.5.1)

Maximum percent of applicable FCC public standard at the nearest building or structure: **19** %
Distance to this nearby building or structure: **203** feet

X 8. The estimated maximum cumulative radio frequency fields for the proposed site at ground level. (WTS-FSG, Section 10.5)

Maximum RF Exposure: **0.16** mW/cm^2 Maximum RF Exposure Percent: **25** %

X 9. The maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas was provided. Any potential walking/working surfaces exceeding regulatory standards were identified. (WTS-FSG, Section 10.9.2)

☑ Public Exclusion Area — Public Exclusion In Feet: **86**
☑ Occupational Exclusion Area — Occupational Exclusion In Feet: **36**

X 10. A description of whether or not the public has access to the antennas was provided. A description was also provided of any existing or proposed warning signs, barricades, barriers, rooftop stripping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. All signs will be provided in English, Spanish and Chinese. (WTS-FSG, Section 9.5, Section 10.9.2)

◉ **Yes** ○ **No**

X 11. Statement regarding the engineer who produced the report and their qualifications was provided. The engineer is licensed in the State of California. (WTS-FSG, Section 11,8)

◉ **Yes** ○ **No**

X **Approved**. Based on the information provided the following staff believes that the project proposal will comply with the current Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC standard CFR47 1.1310 **Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.**

Comments:
There are 0 antennas existing operated by AT&T Wireless installed on the roof top of the building at 5 Thomas Mellon Cir. Existing RF levels at ground level were around 1% of the FCC public exposure limit. No other antennas were observed within 100 feet of this site. AT&T Wireless proposes to install 9 new antennas. The antennas are mounted at a height of 68 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.16 mW/sq cm., which is 25 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 86 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Workers should not have access to within 36 feet of the front of the antennas while they are in operation. Due to their mounting location and height, the AT&T antennas would not be accessible to unauthorized persons.

____ **Not Approved**, additional information required.

____ **Not Approved**, does not comply with Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC Standard

1 Hours spent reviewing

Charges to Project Sponsor (in addition to previous charges, to be received at time of receipt by Sponsor)

Dated: 6/28/2019

Signed:

Arthur Duque
Environmental Health Management Section
San Francisco Dept. of Public Health
1390 Market St., Suite 210,
San Francisco, CA. 94102
(415) 252-3966

AT&T Site ID:
CCL04382

Consultant:
J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR
at&t
5001 Executive Parkway
San Ramon, California 94583

Architect:
Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
DRAWN BY:	JVM
CHECKED BY:	JES

REV	DATE	DESCRIPTION
H	09/14/20	PHOTO SIM REVS
G	09/02/20	100% ZD ELEC REV
F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

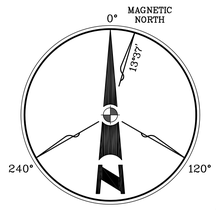
Licensor:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Issued For:
09/14/20
100% ZD Photo Sim Revs

SHEET TITLE:
EME REPORT & HEALTH SAFETY CHECKLIST

SHEET NUMBER:
EME-1

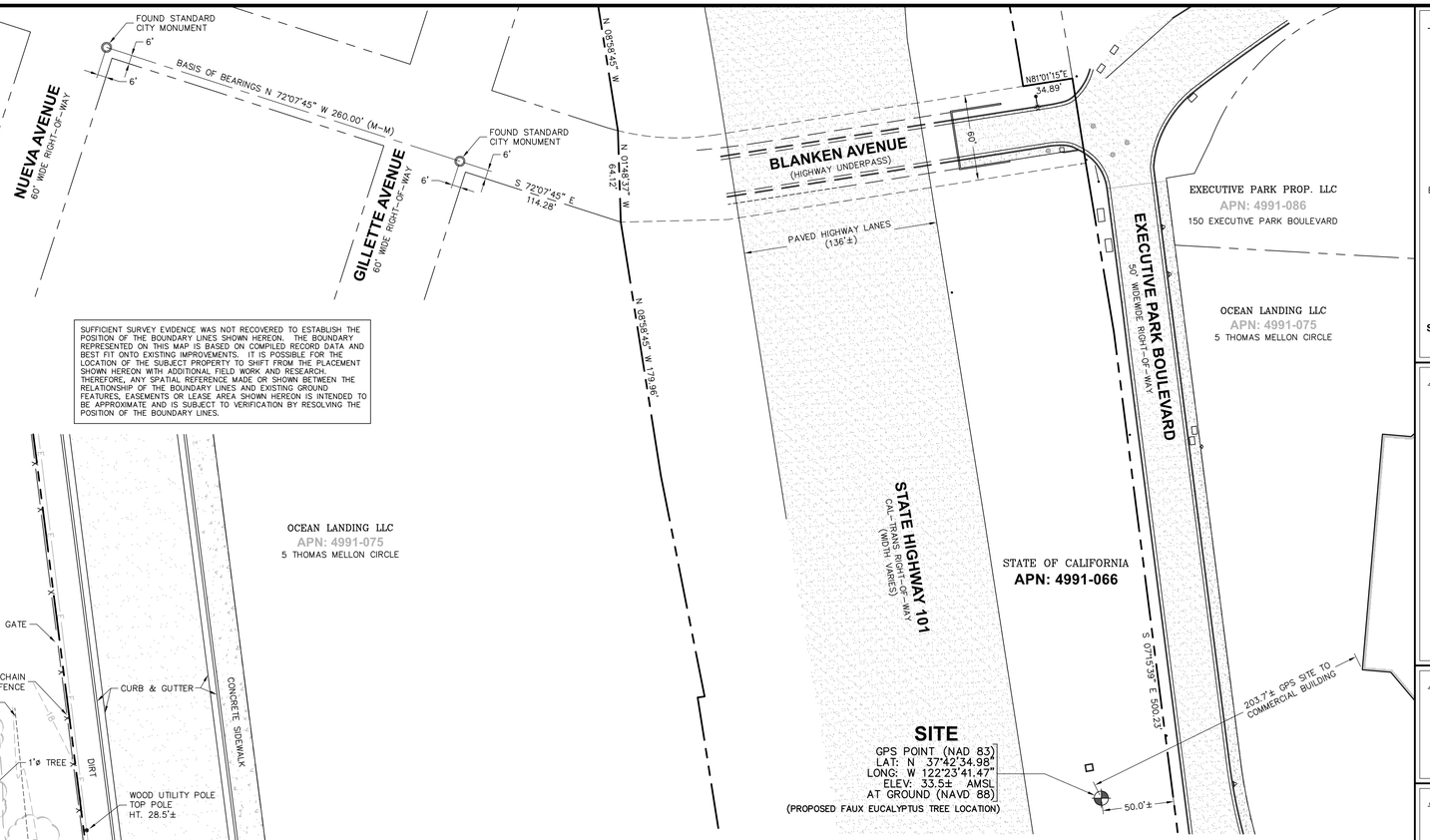


QUIET RIVER
Land Services Inc.

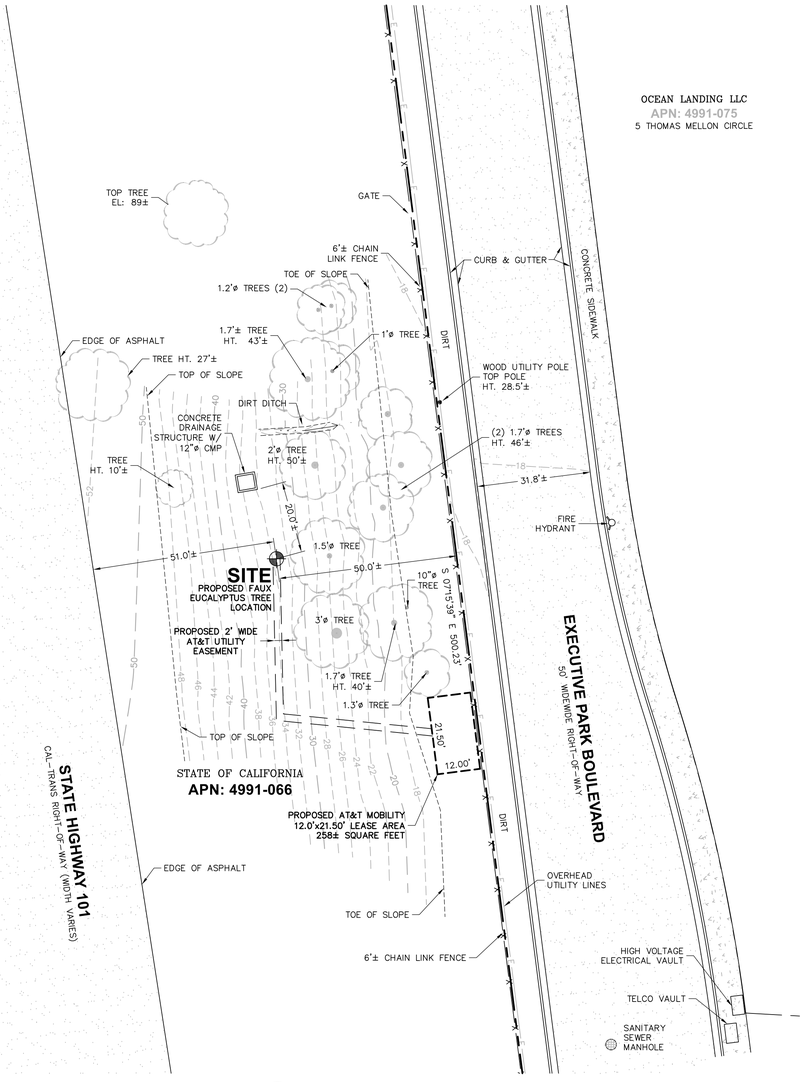
1 1/2 0 1
SCALE IN INCHES

MAGNETIC DECLINATION = 13°37'
PER NOAA-NGDC

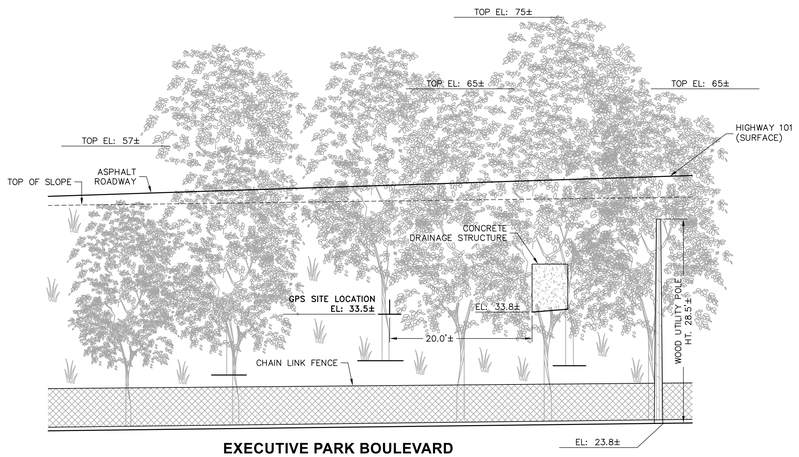
SUFFICIENT SURVEY EVIDENCE WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE, ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA SHOWN HEREON IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.



1 / C1 SITE PLAN
SCALE: 1" = 50'



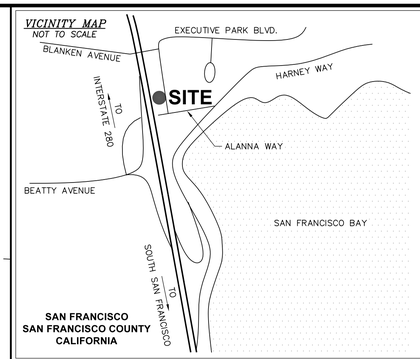
2 / C1 ENLARGED SITE PLAN
SCALE: 1" = 20'



3 / C1 ELEVATION
SCALE: 1" = 10'

P:_2018 TO BE ARCHIVED\J5IP1807\dwg\J5IP1807.dwg Apr. 17, 2019 - 11:30am Ryan

VICINITY MAP
NOT TO SCALE



SAN FRANCISCO
SAN FRANCISCO COUNTY
CALIFORNIA

PROPERTY INFORMATION

Owner: STATE PROPERTY/DEPARTMENT OF GENERAL SERVICES
Address: 707 3RD STREET
WEST SACRAMENTO, CA 95605

Site: CCL04382 / RSFR NSB CCL04382 CANDLESTICK RELO
Address: EXECUTIVE PARK BOULEVARD & ALANNA WAY
SAN FRANCISCO, CA 94134

Assessor's Parcel Number: 4991-066

Height of Building/Tower: N/A

Title Report:
NO TITLE REPORT FURNISHED. EXCEPTIONS TO THE TITLE AND RESERVATIONS THEREFROM COULD NOT BE DETERMINED. BOUNDARY INFORMATION SHOWN IS COMPILED FROM AVAILABLE RECORD DATA.

Legal Description:
PROPERTY SITUATED IN THE CITY OF SAN FRANCISCO, COUNTY OF SAN FRANCISCO, STATE OF CALIFORNIA WITHIN THE CAL-TRANS RIGHT-OF-WAY AS GENERALLY SHOWN UPON THIS MAP.

FEMA FLOOD ZONE DESIGNATION — *National Flood Insurance Program*

County: SAN FRANCISCO

San Francisco does not participate in the FEMA program.

SURVEY DATA

NAD 83 Datum:
Lat: N 37°42'34.98" Long: W 122°23'41.47"
Datum Base: NAD 83 Equipment Used: Topcon Hiperlite Receiver (See Note 2)
Site Ground Elevation: 33.5± AMSL (NAVD88) AT SITE LOCATION
Basis of Elevations:
GLOBAL POSITIONING SYSTEM (GPS)
(SEE NOTE 2)

Basis of Bearings:
CALIFORNIA COORDINATES ZONE III, AND TWO FOUND STANDARD CITY MONUMENTS TAKEN AS NORTH 72°07'45" WEST, AS SHOWN.

Date of Field Survey: DECEMBER 9, 2018

1.) This is not a boundary survey. This is a specialized topographic map with property lines and easements being a graphic depiction of various information gathered from preliminary title reports, back-up documents of record, maps and available monuments found during the field survey. No property monuments were set. No title research was performed by Quiet River Land Services, Inc.

2.) The latitude, longitude and elevation shown hereon were derived from post-processed L-1/L-2 data collected using Navstar Global Positioning System (GPS) and a CHCX90D-OPUS Receiver. CHC Navigation specifications report decimeter level accuracy (horizontally) when data is properly collected and processed. (Elevation = ±3.0 feet.)

3.) Unless otherwise noted, no underground utility locating service company was contacted prior to this map being prepared; therefore, there may be non-visible or obscure utilities existing on the property not shown on this map - so CALL BEFORE YOU DIG.

4.) Any electronic digital media provided by Quiet River Land Services, Inc. to our client is a courtesy and is not to be reproduced, distributed, sold, altered, revised, edited or amended without the express written consent of an Officer of Quiet River Land Services, Inc. Further, only the final stamped, signed and dated original "hard copy" version of our survey or map is considered to be our legally recognized product.

SURVEYOR'S STATEMENT

I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California do hereby state that the information, measurements, easements, record boundary lines, bearings and distances as shown hereon are based upon a field survey as dated above and upon items of public record and data contained in a title report, as referenced. Furthermore, the Latitude and Longitude coordinates are reported in NAD 83 Datum and are accurate to within ±15 feet horizontally, and the ground elevation, reported in NAVD 1988 Datum, is within ±3 feet vertically. The coordinate values and elevations are within the 1-A Accuracy Code designation as listed in the A.S.A.C. Information Sheet 91:003 and are accurate to the best of my knowledge and belief.

SIGNATURE 4/16/19 DATE

LEGEND

APN:	ASSESSOR'S PARCEL NUMBER		ASPHALT
CP	CONTROL POINT		CONCRETE
EL.	ELEVATION	△	CONTROL POINT
FH	FIRE HYDRANT	○	FOUND MONUMENT
FND.	FOUND	⊕	GPS POINT
HT.	HEIGHT	P 15.3 / R 12.3	PARAPET/ROOF ELEVATIONS
MON.	MONUMENT	× 12.3	SPOT ELEVATION
(M-M)	MONUMENT TO MONUMENT	■	TEMPORARY BENCHMARK
P.O.B.	POINT OF BEGINNING		
P.O.C.	POINT OF COMMENCEMENT		
PP	POWER POLE		
(TYP.)	TYPICAL		

DATE: APRIL 16, 2019
DRAWN BY: MAS
FILE NO.: J5IP1807

REVISIONS

DATE	DESCRIPTION	INITIAL
12/11/18	90% ISSUE	MAS
4/12/19	100% ISSUE	RO
4/16/19	REVISE SITE ADDRESS	RO

at&t
AT&T MOBILITY
5001 Executive Parkway
San Ramon, CA 94583

QUIET RIVER
Land Services Inc.
6747 Sierra Court, Suite K
Dublin, CA 94568
(925) 734-6788 Phone

EXISTING SITE CONDITIONS

LICENSED LAND SURVEYOR
KEVIN M. McGUIRE
Exp. 12-31-20
No. 6437
STATE OF CALIFORNIA

CCL04382
CANDLESTICK RELO
EXECUTIVE PARK BOULEVARD
& ALANNA WAY
SAN FRANCISCO, CA 94134

C1
OF 1 SHEET

GENERAL CONSTRUCTION NOTES:

1. PLANS ARE INTENDED TO BE DIAGRAMATIC 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 RECOOMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC 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. REPRESENTAIONS 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 DESCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THW 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 COMMENCMENT 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 RESPONSIBILE 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 SHEDULES 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 INTERRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DESCREPANCY 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 CONTRUCTION 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 ACCORDINACE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

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.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- 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.
-IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

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

SYMBOLS LEGEND

1 A-300 / 1 A-300	BLDG. SECTION		GROUT OR PLASTER
A5 A-310	WALL SECTION		(E) BRICK
D5 A-500	DETAIL		(E) MASONRY
C1 A-113 / A4 A-113 / C4 A-113 / A1 A-113	ELEVATION		CONCRETE
			EARTH
			GRAVEL
			PLYWOOD
			SAND
			PLYWOOD
			SAND
			(E) STEEL
001	DOOR SYMBOL		MATCH LINE
10	WINDOW SYMBOL		GROUND CONDUCTOR
3	TILT-UP PANEL MARK	OH	OVERHEAD SERVICE CONDUCTORS
	PROPERTY LINE	Tel	TELEPHONE CONDUIT
	CENTERLINE	Pwr	POWER CONDUIT
±0"	ELEVATION DATUM	Coax	COAXIAL CABLE
A	GRID/COLUMN LINE		CHAIN LINK FENCE
3	KEYNOTE, DIMENSION ITEM		WOOD FENCE
2	KEYNOTE, CONSTRUCTION ITEM		(P) ANTENNA
W- 3	WALL TYPE MARK		(P) RRU
OFFICE 101	ROOM NAME ROOM NUMBER		(P) DC SURGE SUPPRESSION
			(E) ANTENNA TO BE REMOVED
			(E) RRU TO BE REMOVED
			(E) EQUIPMENT

AT&T Site ID:

CCL04382

Consultant:

J5 INFRASTRUCTURE PARTNERS

1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR

at&t

5001 Executive Parkway
San Ramon, California 94583

Architect:

ARCHITECTURAL GROUP Borges

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916 773 3037 FAX

AT&T SITE NO:	CCL04382
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DRAWN BY:	JVM
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F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

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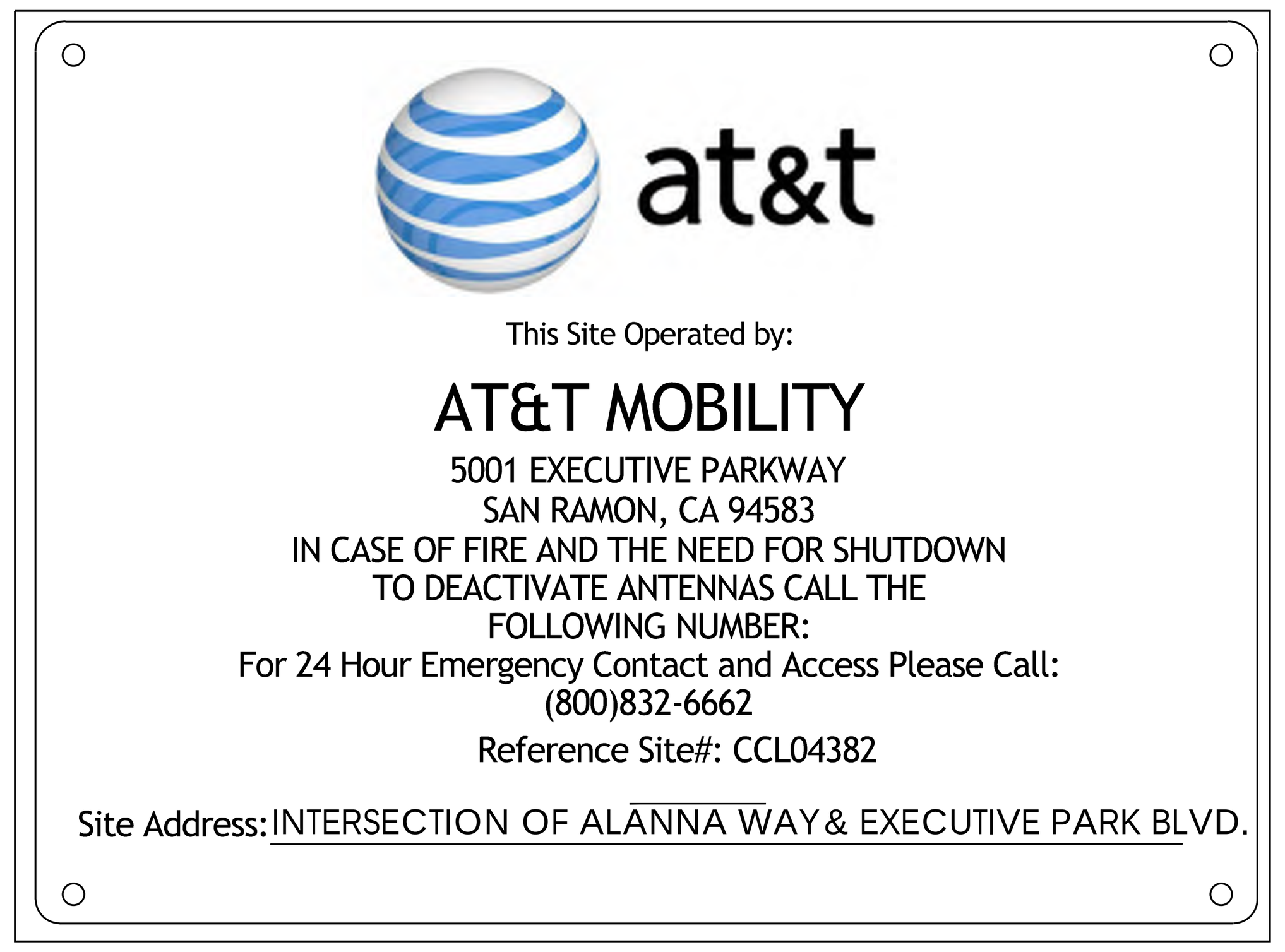
SHEET TITLE:

GENERAL NOTES - LEGENDS & ABBREVIATIONS

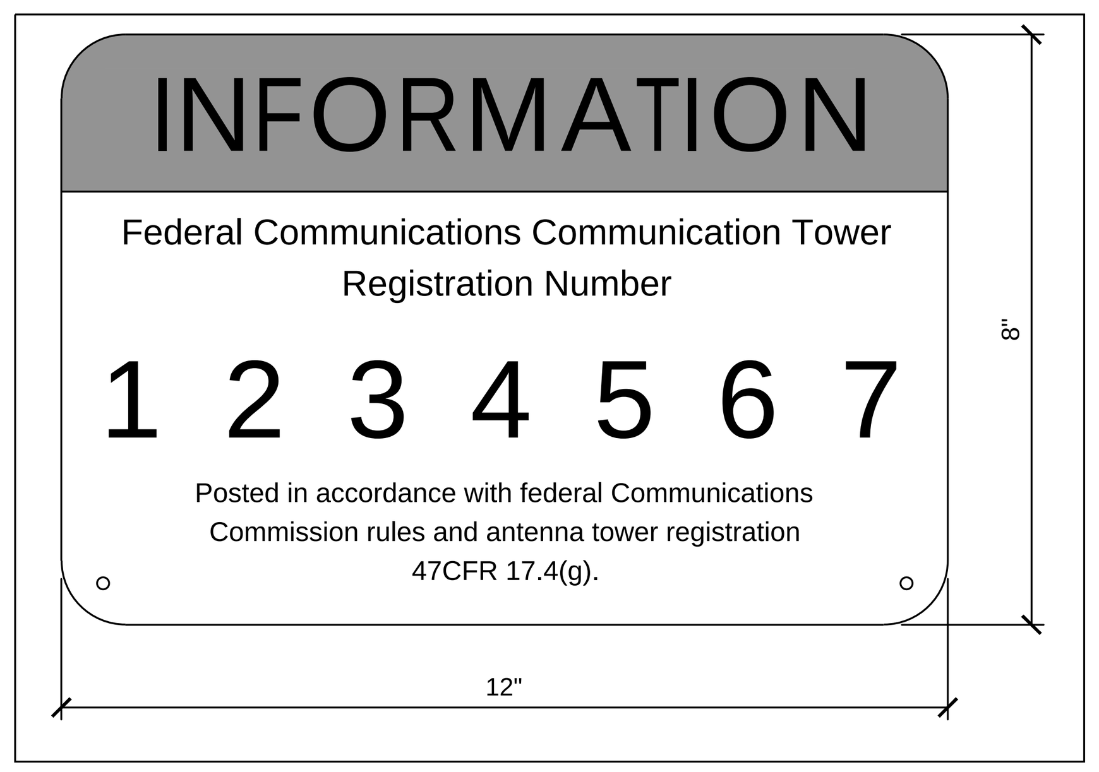
SHEET NUMBER:

GN-1



20 FENCED COMPOUND SIGNAGE
N.T.S.

19 FENCED COMPOUND SIGNAGE
N.T.S.



15 FCC ASR SIGNAGE
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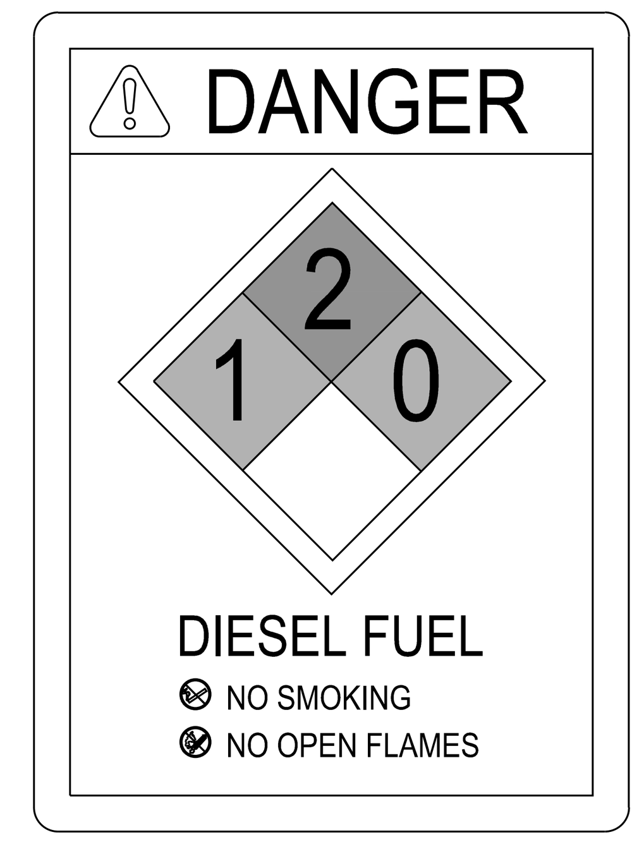


7 NFPA 704 DIESEL FUEL PLACARD
1" = 1'-0"

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. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mWcm*2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mWcm*2
3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
4. 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 FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
5. 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 PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
6. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y 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.
7. PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS 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. 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.

3 GENERAL NOTES
N.T.S. rename me to this view "dwg" name

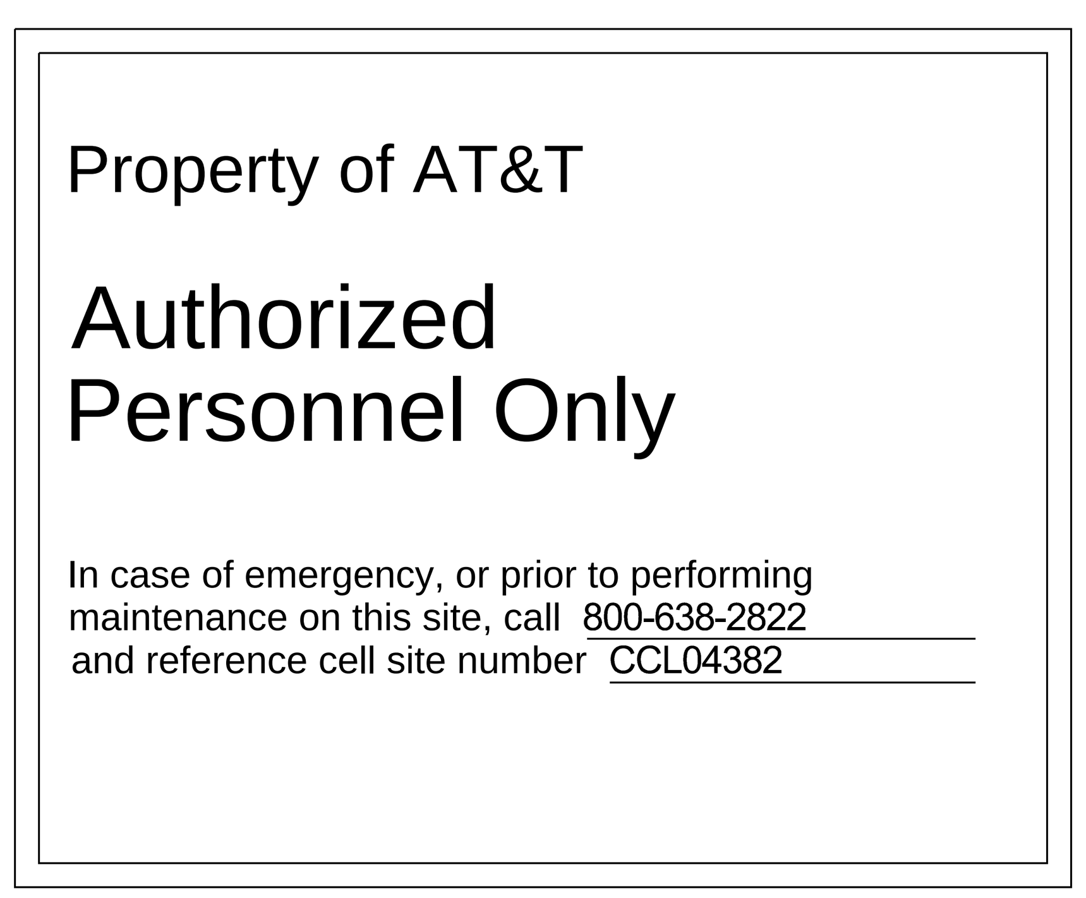
18 DOOR / EQUIPMENT SIGN
N.T.S.

14 GATE SIGNAGE
N.T.S.

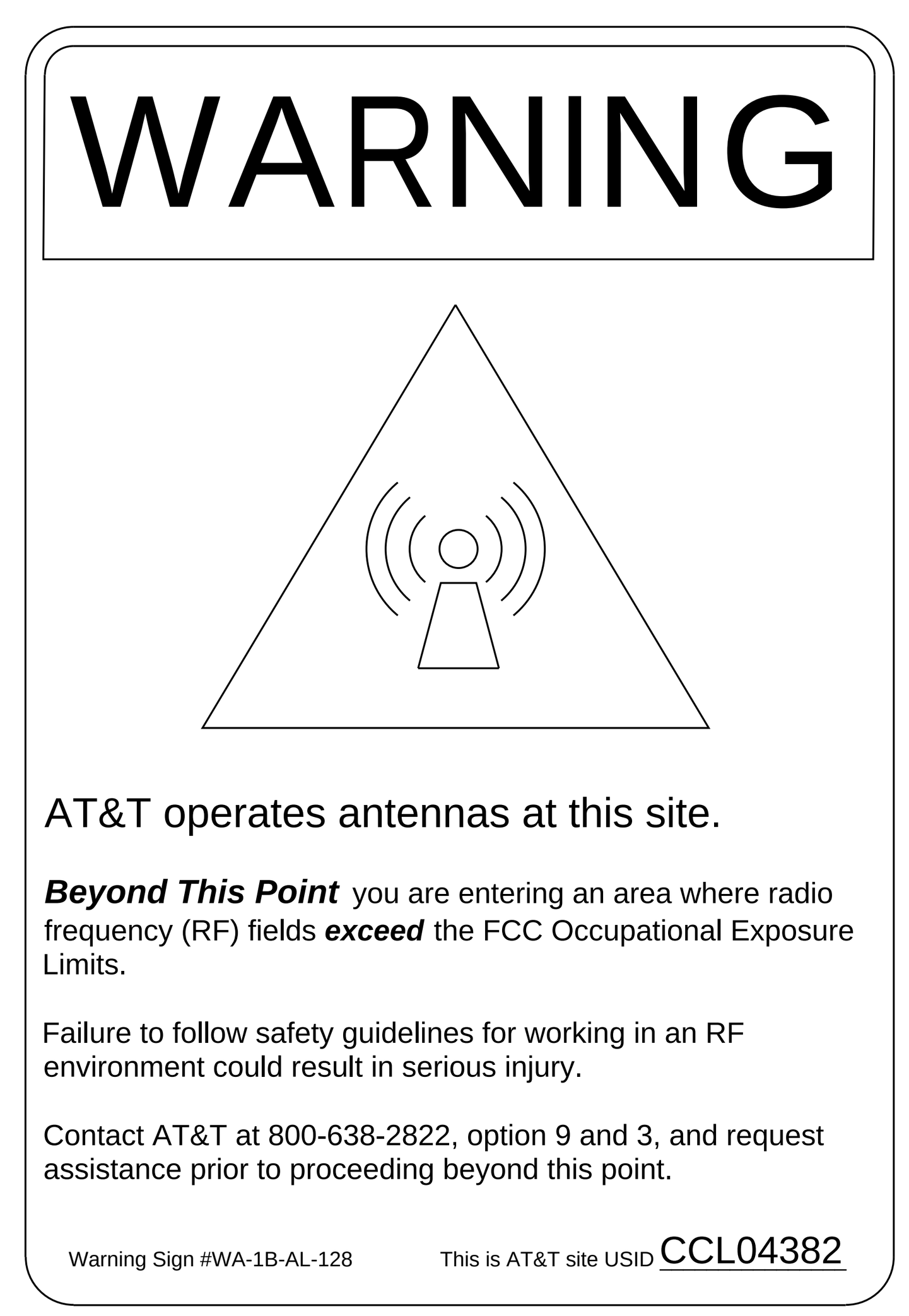
NOTE:
1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

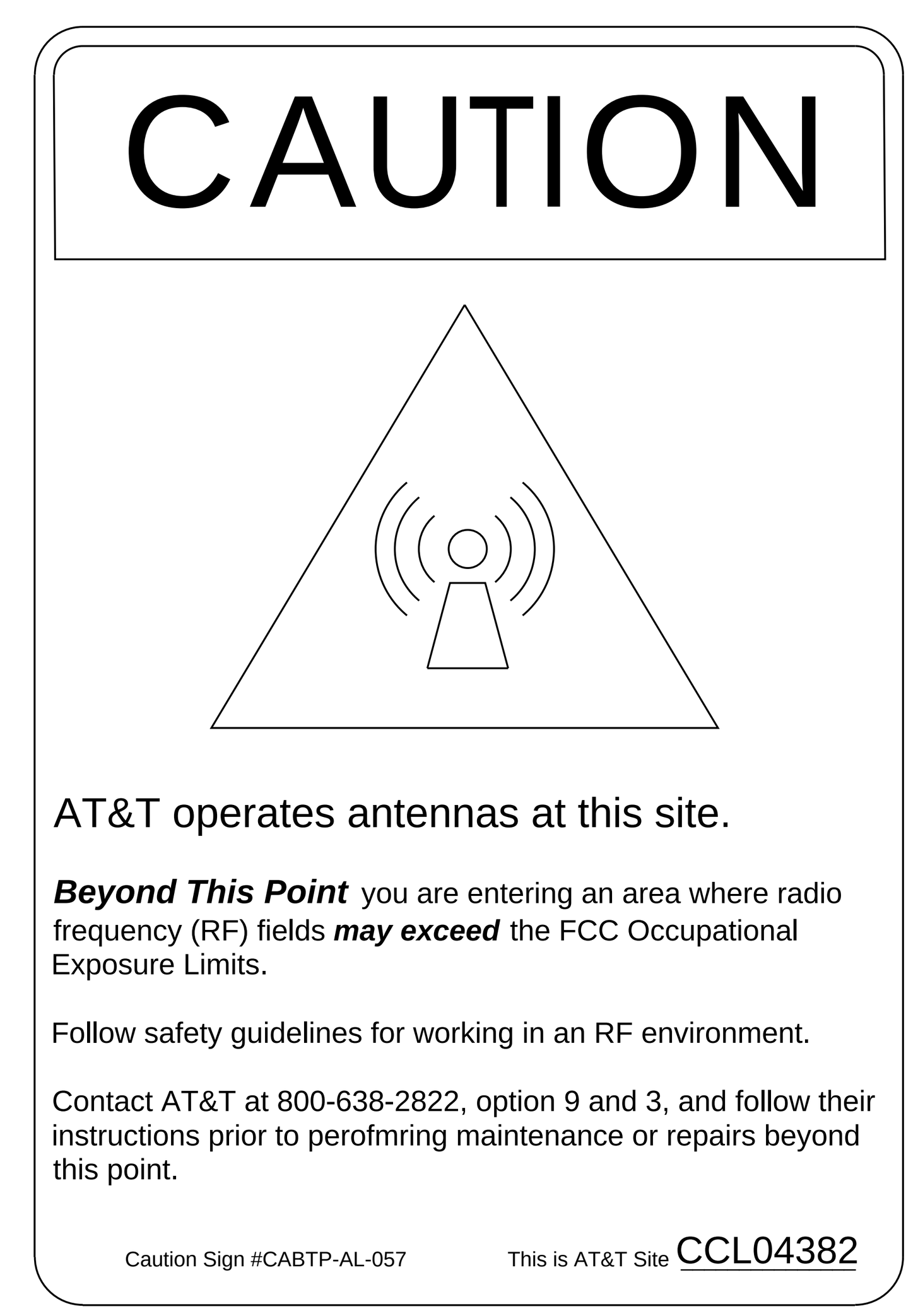
2. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE

17 NFPA HAZARD SIGN
N.T.S.

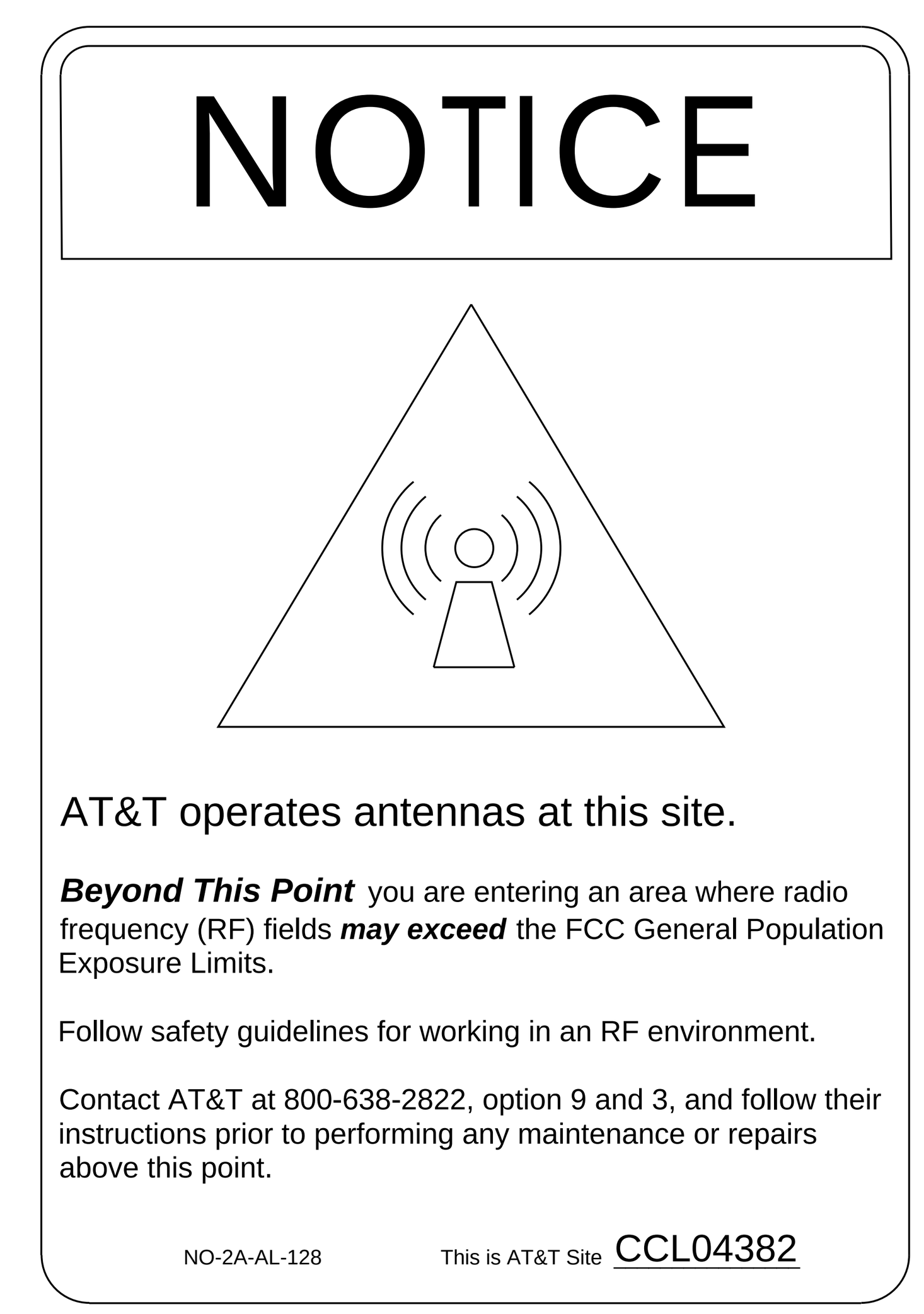


13 SHELTER / CABINET DOORS SIGNAGE
N.T.S.





9 CAUTION AND WARNING SIGN
N.T.S. rename me to this view "dwg" name



1 NOTICE SIGN
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AT&T Site ID:
CCL04382

Consultant:
J5
INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
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Architect:
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SHEET TITLE:
SITE SIGNAGE

SHEET NUMBER:
GN-2

EXIDE TECHNOLOGIES

GHS SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

II. HAZARD IDENTIFICATION

Z99-SDS-MARSPR 2013-09 Page 1 of 7

III. COMPOSITION/INFORMATION ON INGREDIENTS

IV. FIRST AID MEASURES

V. FIRE FIGHTING MEASURES

VI. ACCIDENTAL RELEASE MEASURES

VII. HANDLING AND STORAGE

Z99-SDS-MARSPR 2013-09 Page 2 of 7

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

IX. PHYSICAL AND CHEMICAL DATA - ELECTROLYTE

Z99-SDS-MARSPR 2013-09 Page 3 of 7

X. STABILITY & REACTIVITY DATA

XI. TOXICOLOGICAL DATA

Z99-SDS-MARSPR 2013-09 Page 4 of 7

XII. ECOLOGICAL INFORMATION

XIII. DISPOSAL INFORMATION

XIV. TRANSPORT INFORMATION

XV. REGULATORY INFORMATION

Z99-SDS-MARSPR 2013-09 Page 5 of 7

Z99-SDS-MARSPR 2013-09 Page 6 of 7

XVI. OTHER INFORMATION

Z99-SDS-MARSPR 2013-09 Page 7 of 7

MARATHON

From the World Leader in VRLA Battery Technology

Designed for durability in Telecommunications and Electric Utility applications, the GNB® Industrial Power **Front Terminal MARATHON®** series provides high performance and reliability in long duration discharge applications. The location of the terminals on the front (vs. the top) of the battery greatly facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a standard relay rack tray. The **MARATHON®** Front Terminal battery series highlights another example of GNB's extensive experience and worldwide leadership in VRLA technology.

"Designed-in" Quality Manufacturing

Quality manufacturing processes for the **MARATHON®** series batteries incorporate the industry's most advanced technologies including: an automated helium leak detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

High Performance MARATHON® Features

- Patented "Diamond Side-Wall" Design maintains structural integrity in higher operating temperatures
- Durable Flame Retardant Polypropylene Container and Cover complies with UL94 V-0; 28% L.O.I.
- Carry Handles facilitate ease of installation
- High-Compression Absorbent Glass Mat (AGM) Technology ensures greater than 99% recombination efficiency
- Integrated Flash Arrestor ultrasonically welded into cover for secure and safe protection
- 10 Year Design Life in float applications @ 25°C (77°F); 12 year @ 20°C (68°F)
- Superior Lead-Tin-Calcium Positive Alloy helps to resist corrosion
- Higher Vent Opening Pressure minimizes unnecessary gassing; one-way self resealing device
- Front Accessible Copper Alloy, 6 mm, Female Terminals ensures low resistance, high integrity connections
- "Easy On\Easy Off" Terminal Post Protector provides added safety
- Post Design accomodates voltage/diagnostic probes
- Footprint Ready fits in all standard 23" Relay Rack Applications
- Compliance: Designed in accordance with IEC 60896-21/-22
- No Transport Restrictions: Complies with IATA/ICAO Special Provision A67; DOT-CFR Title 49; IMDG Amendment 34-08

Applications

MARATHON® Batteries incorporate GNB's advanced VRLA technology designed for long life and high performance in:

Telecommunications
- Distributed Power
- PCS
- Cellular
- Broadband

Electric Utility
- Switchgear Control Power
- Communications

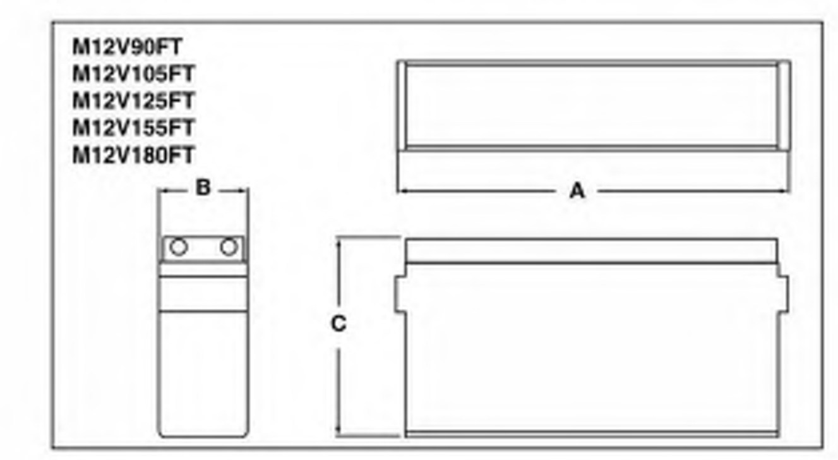
UPS
- Industrial Long Duration

UL Recognized Component

MARATHON

MARATHON® Front Terminal Specifications

Model Number	Voltage	Capacity (AH) 8hr To 1.75 VPC @ 25°C	Capacity (AH) 10hr To 1.80 VPC @ 20°C	Nominal Dimensions Inches A	B	C	Millimeters A	B	C	Nominal Weight lbs.	kg
M12V90FT	12	86	86	15.55	4.13	10.63	395	105	270	70	31.5
M12V105FT	12	104	100	20.12	4.33	9.38	511	110	238	79	35.8
M12V125FT	12	125	121	22.00	4.90	11.15	559	124	283	105	47.6
M12V155FT	12	155	150	22.00	4.90	11.15	559	124	283	119	53.8
M12V180FT	12	180	175	22.00	4.90	12.50	559	124	318	133	60.0



Float Voltage & Charging

Constant Voltage charging is recommended

Recommended float voltage: 2.27 VPC @ 25°C (77°F)

Float Voltage Range: 2.25 to 2.30 VPC @ 25°C (77°F)

Equalize voltage: 2.35 VPC for 24 Hours or 2.40 VPC for 12 Hours

MARATHON® Front Terminal Electrical Data

Model Number	Short Circuit Current Amps	Internal Resistance (mOhms)
M12V90FT	2358	4.5
M12V105FT	3125	4.0
M12V125FT	3814	3.2
M12V155FT	3883	3.0
M12V180FT	4147	3.0

NOTE: Design and/or specifications subject to change without notice. If questions arise, contact your local GNB sales representative for clarification.

CFC CHAPTER 6 COMPLIANCE

BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	VOLTAGE	RATED CAPACITY (10 HOUR RATE)	KWh OF SINGLE BATTERY = (RATED CAPACITY) X (VOLTAGE) / 1000	TOTAL KWh = (# OF BATTERIES) X (KWh OF SINGLE BATTERY)
GNB INDUSTRIAL POWER MARATHON M12V180FT	8 UNITS	12V	175AH	2.1 KWh = (175Ah) X (12V) / 1000	16.2 KWh = (8) X (2.1 KWh)

AT&T Site ID: CCL04382

Consultant: J5 INFRASTRUCTURE PARTNERS
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San Ramon, California 94583

Architect: Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
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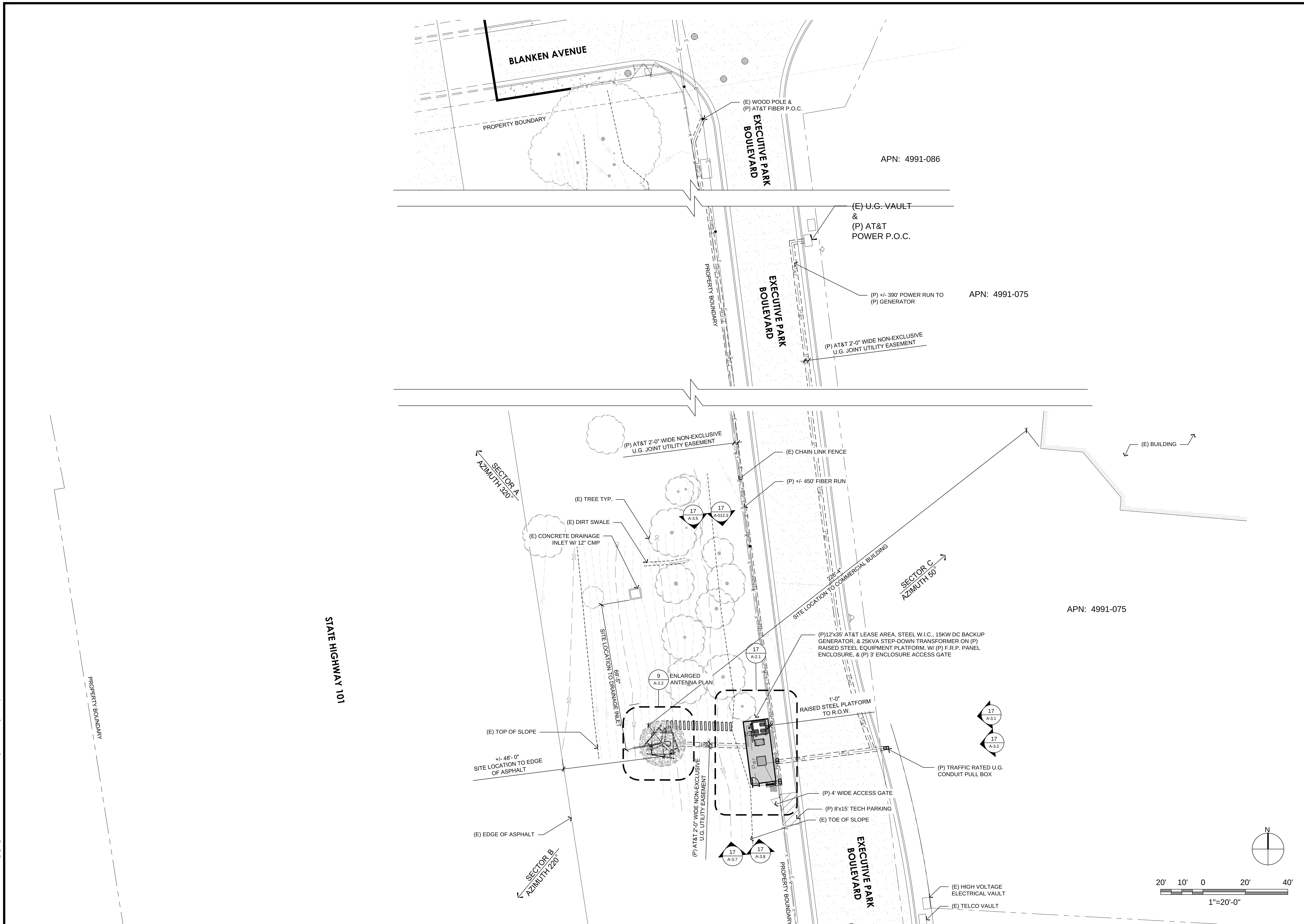
SHEET TITLE: BATTERY SPECIFICATIONS

SHEET NUMBER: GN-3



1 OVERALL SITE PLAN
1"=20'-0"

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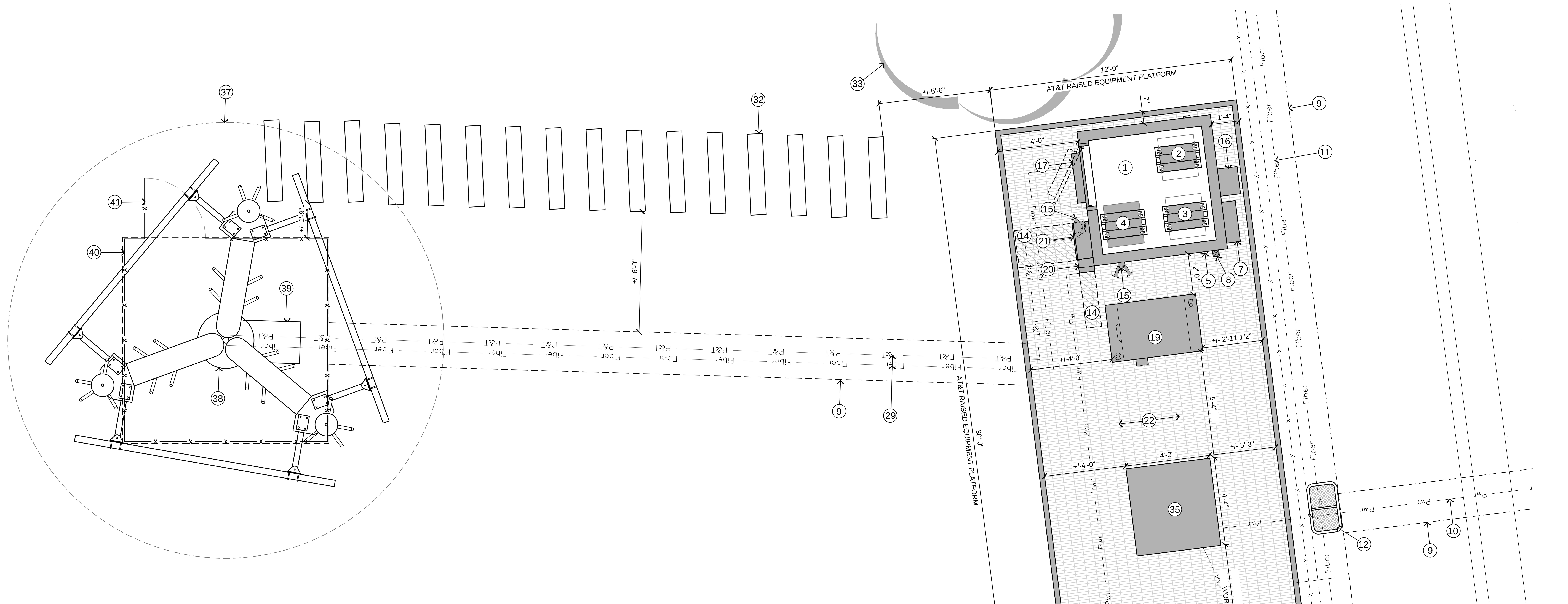
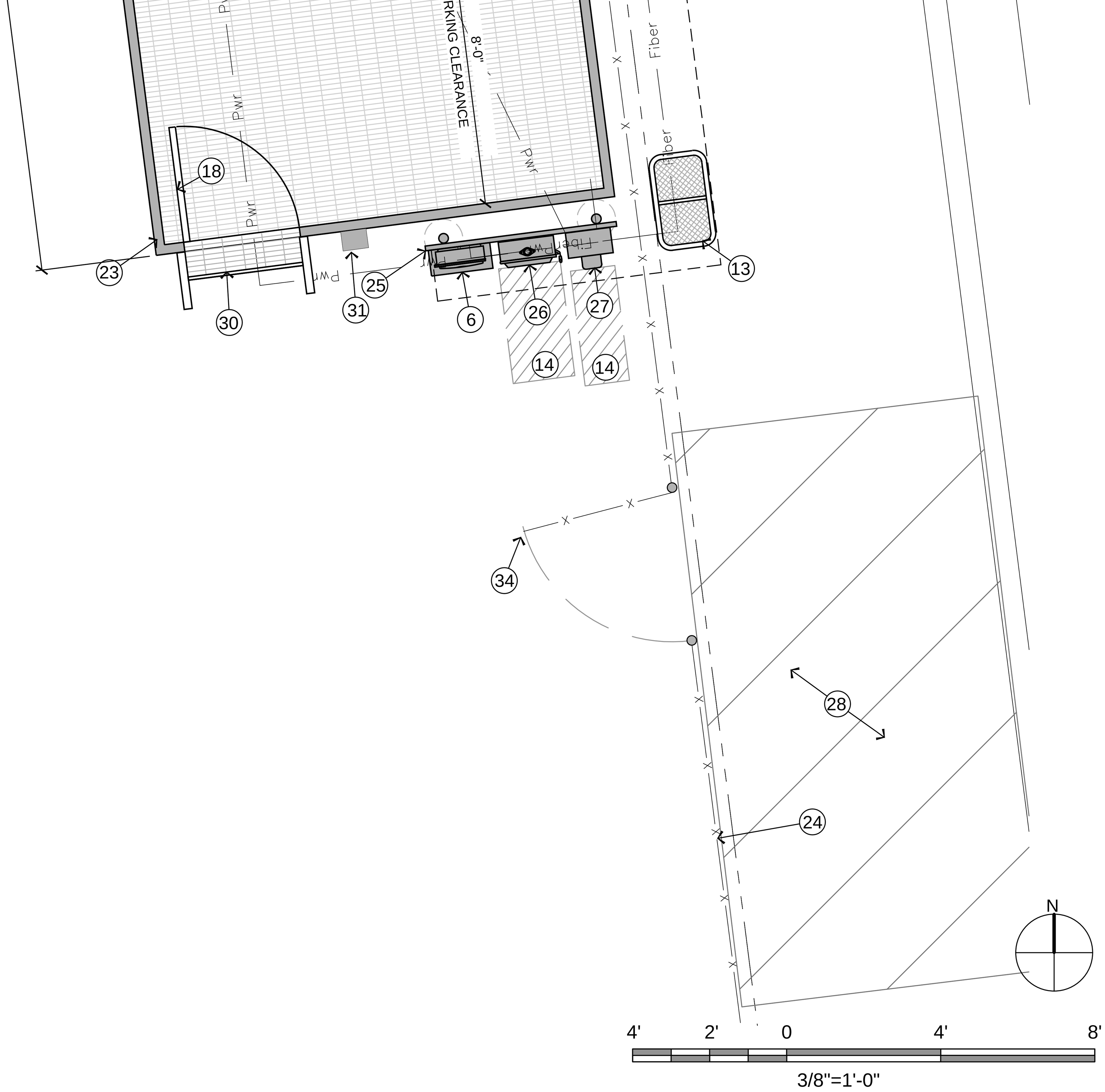
SHEET TITLE:

SITE PLAN

SHEET NUMBER:

A-1





EQUIPMENT LEGEND:

1. (P) 80" x 80" PRE-MANUFACTURED AT&T EQUIPMENT STEEL WALK IN CABINET (WIC)
2. (P) LTE RACK
3. (P) TELCO RACK
4. (P) POWER PLANT RACK w/ BATTERIES
5. (P) CABLE PORT
6. (P) CEINA W/ UAM BELOW, ON (P) H-FRAME
7. (P) DC CB ASSEMBLY
8. (P) GPS ANTENNA ATTACHEDTO WIC SHELTER
9. (P) AT&T 24" WIDE U.G. JOINT UTILITY EASEMENT
10. (P) POWER RUN = +/- 390'-0"
11. (P) FIBER RUN = +/- 450'-0"
12. (P) 17"x30" U.G. POWER VAULT
13. (P) 17"x30" U.G. TELCO VAULT
14. (P) 36" WORKING CLEARANCE
15. (P) SHELTER LIGHT
16. (P) HVAC
17. (P) 3' WIDE WIC ACCESS DOOR
18. (P) 3' WIDE F.R.P. ENCLOSURE ACCESS DOOR
19. (P) 15KW POLAR DC GENERATOR W/ 54 GALLON TANK
20. (P) CAM LOK GENERATOR INTERFACE
21. (P) 42 CIRCUIT LOAD CENTER WITH MANUAL & AUTOMATIC TRANSFER SWITCH
22. (P) 12'-0" x 30'-0" RAISED STEEL PLATFORM
23. (P) F.R.P. PANEL ENCLOSURE w/ FAUX CMU FINISH
24. (E) CHAIN LINK FENCING
25. (P) 4' UTILITY H-FRAME
26. (P) SERVICE DISCONNECT ON (P) H-FRAME
27. (P) 200 AMP POWER METER ON (P) H-FRAME
28. (P) TECH PARKING
29. (P) U.G. AT&T POWER & FIBER CONDUIT RUN, TOTAL LENGTH = +/- 120'
30. (P) STEEL STEP
31. (P) KNOX BOX
32. (P) RAIL ROAD TIE SITE ACCESS STEPS, TYP.
33. (E) TREE, TYP.
34. (P) 4' CHAIN LINK ACCESS GATE
35. (P) 25 KVA STEP-DOWN TRANSFORMER
36. (P) STEP-DOWN TRANSFORMER CONCRETE PAD
37. (P) TREE POLE DRIP LINE
38. (P) TREE POLE
39. (P) CONDUIT DOG HOUSE
40. (P) 6' HIGH CHAIN LINK ENCLOSURE W/ GREEN PRIVACY SLATS
41. (P) 3' WIDE CHAIN LINK ACCESS GATE W/ GREEN PRIVACY SLATS

17 ENLARGED EQUIPMENT LAYOUT
3/8" = 1'-0"

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5001 Executive Parkway
San Ramon, California 94583

Architect:
Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
DRAWN BY:	JVM
CHECKED BY:	JES

REV	DATE	DESCRIPTION
H	09/14/20	PHOTO SIM REVS
G	09/02/20	100% ZD ELEC REV
F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

Licensor:

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Issued For:
09/14/20
100% ZD Photo Sim Revs

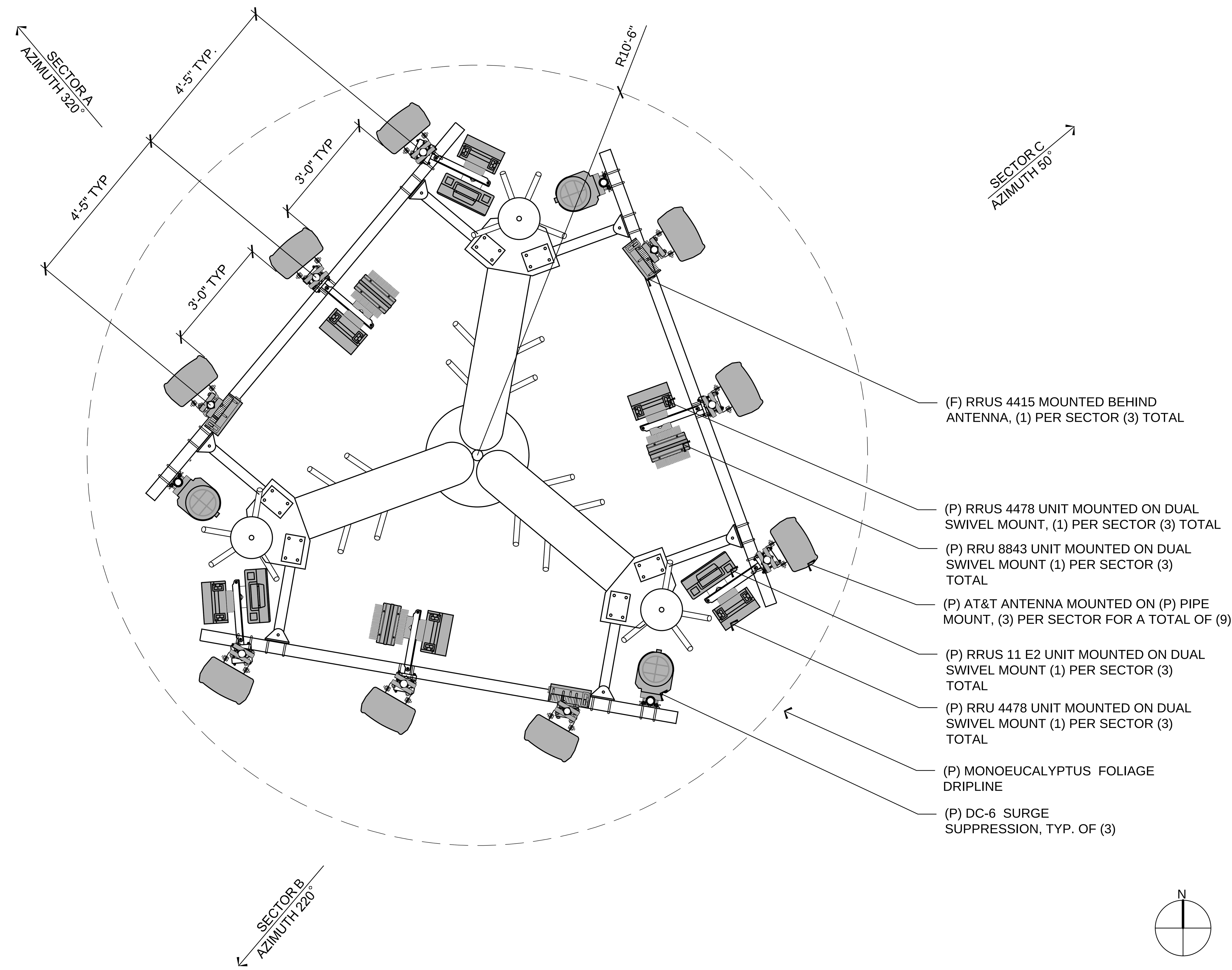
SHEET TITLE:
ENLARGED EQUIPMENT PLAN

SHEET NUMBER:
A-2.1

SECTOR ANTENNA	AZIMUTH	ANTENNA MODEL NUMBER	RAD CENTER	RRHs	NUMBER OF CABLES	CABLE LENGTH	CABLE TYPE
A1	320°	QUINTEL QS4458-5	+/- 68'-0"	RRUS 11, 4478 B5	1	+/- 169'-0"	FIBER
A2	320°	QUINTEL QS4458-5	+/- 68'-0"	8843	1	+/- 169'-0"	FIBER
A3	320°	QUINTEL QS4458-5	+/- 68'-0"	4478 B14, 4415 B30	1	+/- 169'-0"	FIBER
B1	220°	QUINTEL QS4458-5	+/- 68'-0"	RRUS 11, 4478 B5	1	+/- 169'-0"	FIBER
B2	220°	QUINTEL QS4458-5	+/- 68'-0"	8843	1	+/- 169'-0"	FIBER
B3	220°	QUINTEL QS4458-5	+/- 68'-0"	4478 B14, 4415 B30	1	+/- 169'-0"	FIBER
C1	50°	QUINTEL QS4458-5	+/- 68'-0"	RRUS 11, 4478 B5	1	+/- 169'-0"	FIBER
C2	50°	QUINTEL QS4458-5	+/- 68'-0"	8843	1	+/- 169'-0"	FIBER
C3	50°	QUINTEL QS4458-5	+/- 68'-0"	4478 B14, 4415 B30	1	+/- 169'-0"	FIBER

1. ANTENNA MOUNT ATTACHMENT TO BE DESIGNED BY MANUFACTURER / STRUCTURAL ENGINEER. THIS IS A GRAPHIC REPRESENTATION ONLY. STRUCTURAL CALCULATIONS BY OTHERS
2. ANTENNAS, EQUIPMENT, CABLING, AND MOUNTING HARDWARE TO BE PAINTED TO MATCH MONOTREE

12 RF SCHEDULE
NOT TO SCALE



N

2' 1' 0 2' 4'
1/2"=1'-0"

9 ENLARGED ANTENNA PLAN
1/2" = 1'-0"

AT&T Site ID:
CCL04382

Consultant:
J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR
at&t
5001 Executive Parkway
San Ramon, California 94583

Architect:
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C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

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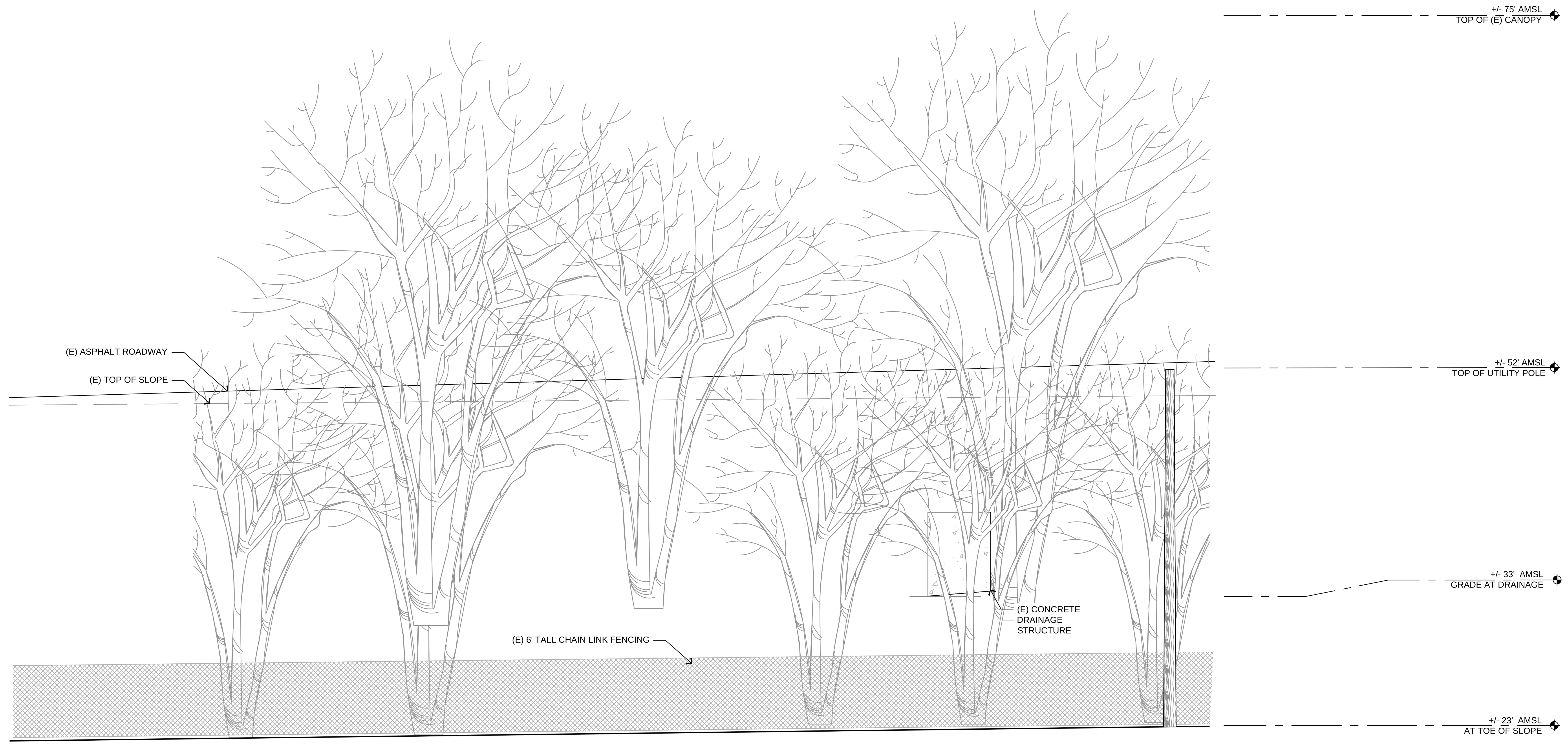
SHEET TITLE:
ENLARGED ANTENNA PLAN

SHEET NUMBER:
A-2.2



17 EXISTING EAST ELEVATION
3/16" = 1'-0"

AT&T Site ID:

CCL04382

Consultant:

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1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

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Architect:

ARCHITECTURAL GROUP Borges

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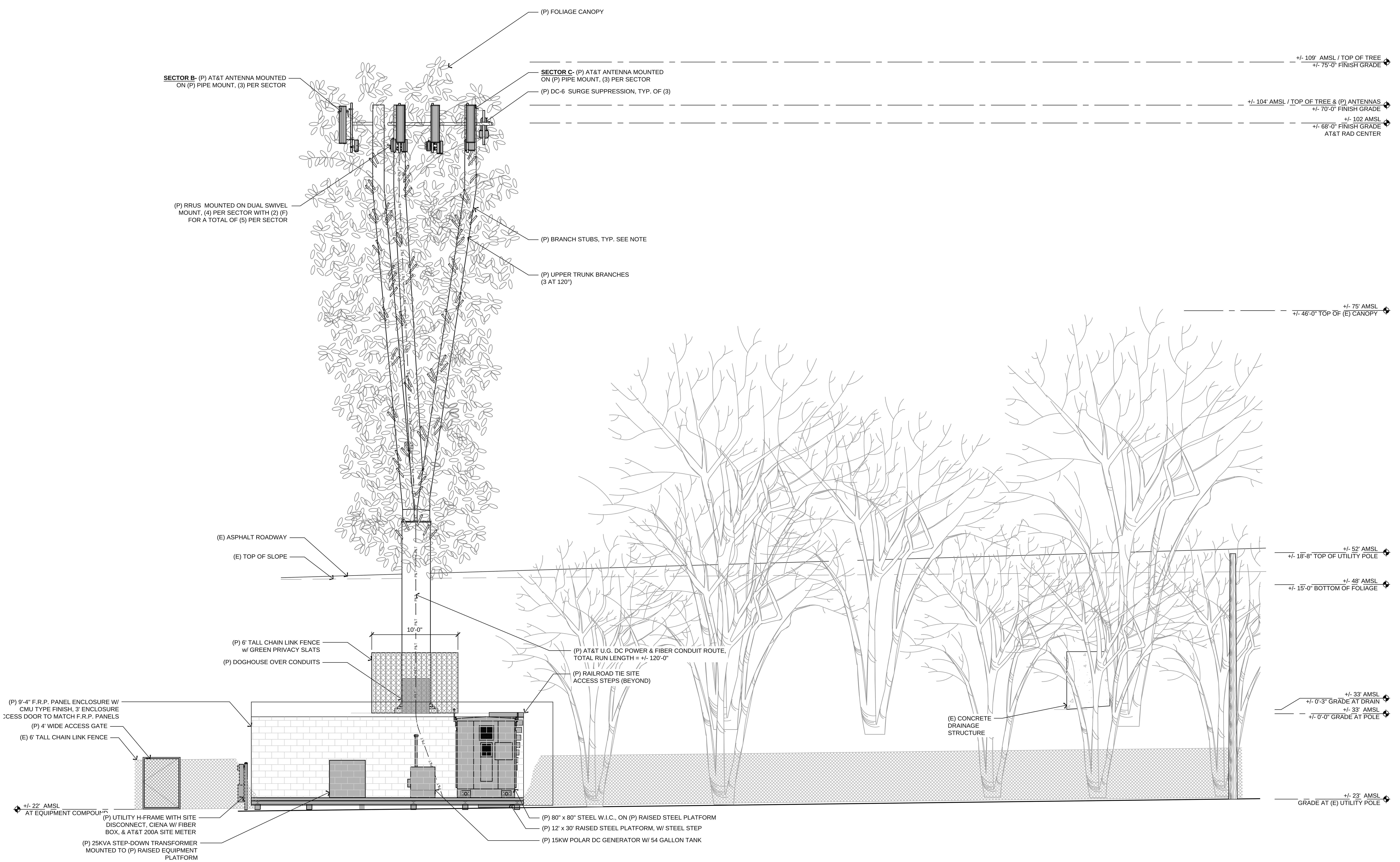
SHEET TITLE:
SITE ELEVATIONS

SHEET NUMBER:
A-3.1

NOTE:

1. BRANCHES SHOWN ON MONO-TREE ARE FOR ILLUSTRATIVE PURPOSES ONLY, NOT TO SCALE



17 PROPOSED EAST ELEVATION
3/16" = 1'-0"

AT&T Site ID:

CCL04382

Consultant:

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AT&T SITE NO:	CCL04382
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B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

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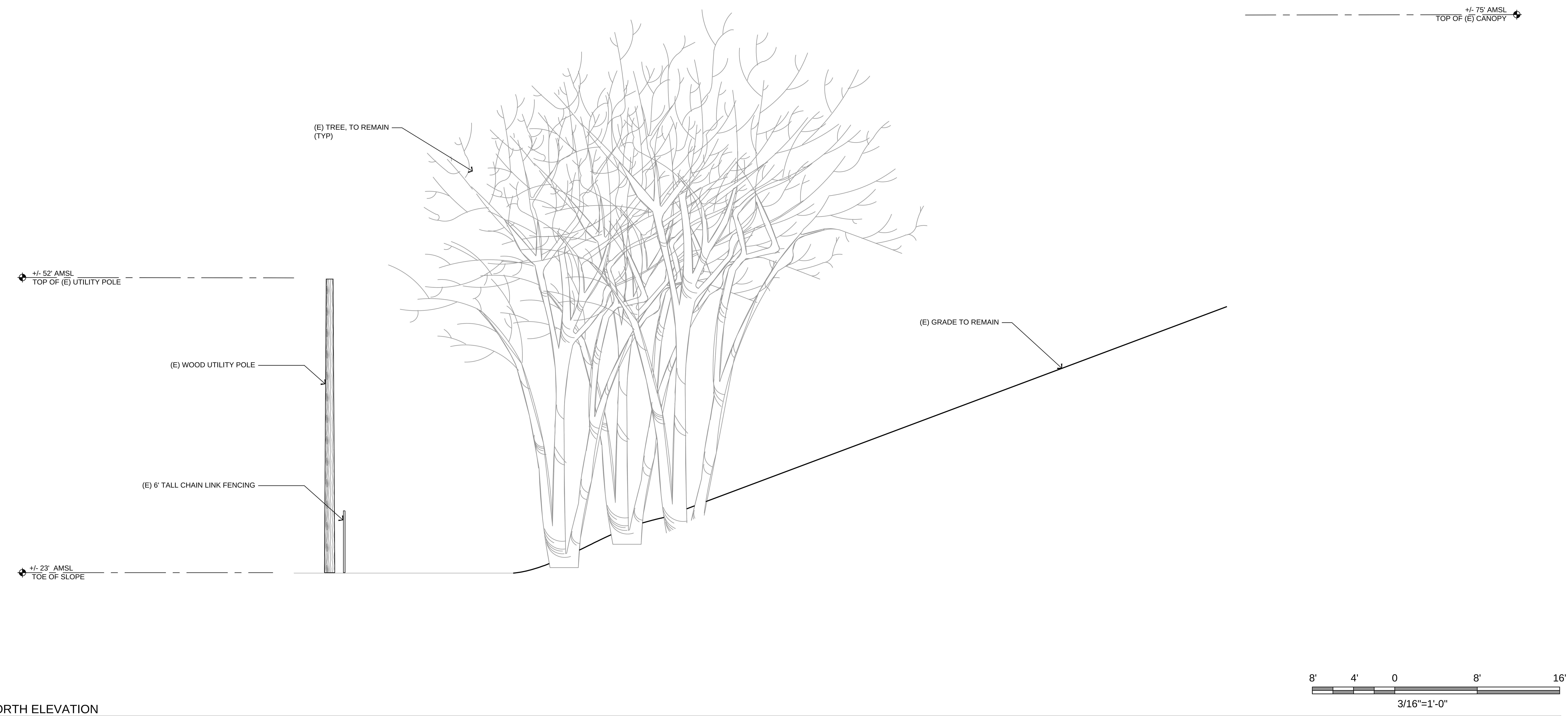
SHEET TITLE:

SITE ELEVATIONS

SHEET NUMBER:

A-3.2



17 EXISTING NORTH ELEVATION
3/16" = 1'-0"

AT&T Site ID:
CCL04382

Consultant:
J5
INFRASTRUCTURE
PARTNERS
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E	07/08/20	100% ZD REDLINES
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B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

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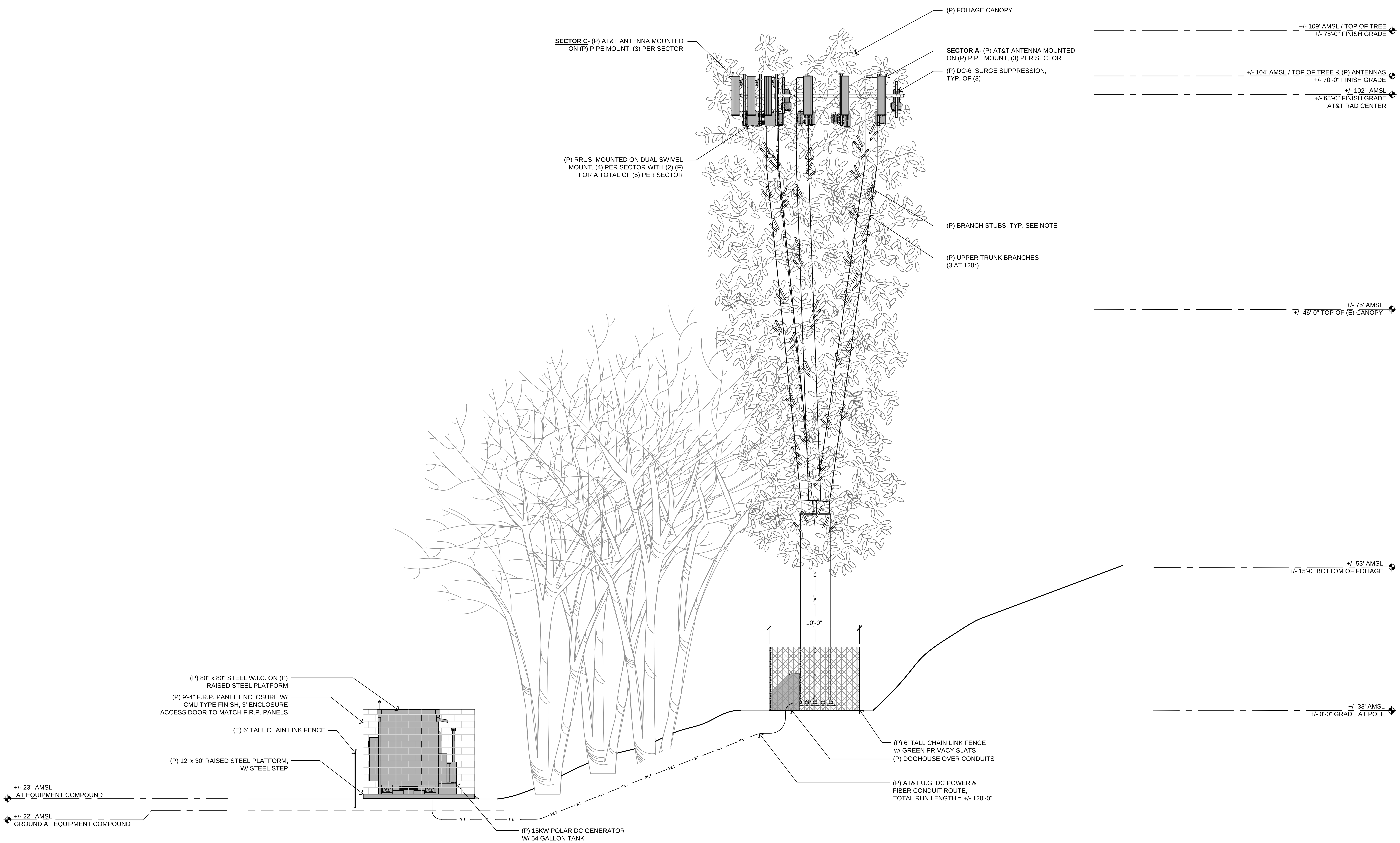
SHEET TITLE:
SITE ELEVATIONS

SHEET NUMBER:
A-3.3

NOTE:

1. BRANCHES SHOWN ON MONO-TREE ARE FOR ILLUSTRATIVE PURPOSES ONLY, NOT TO SCALE



8' 4' 0 8' 16'

3/16"=1'-0"

17 PROPOSED NORTH ELEVATION

3/16" = 1'-0"

Plot Date:9/15/2020 10:10:29 AM File NameT:\2018\T-18510_J5_ATT_NSB\CCL04382-01\Candlestick Relo\Sheets\Building A\A-3.4 Site Elevations.dwg Plotted By:John McDonnell

AT&T Site ID:

CCL04382

Consultant:

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PROJECT NO:	T-18510-01
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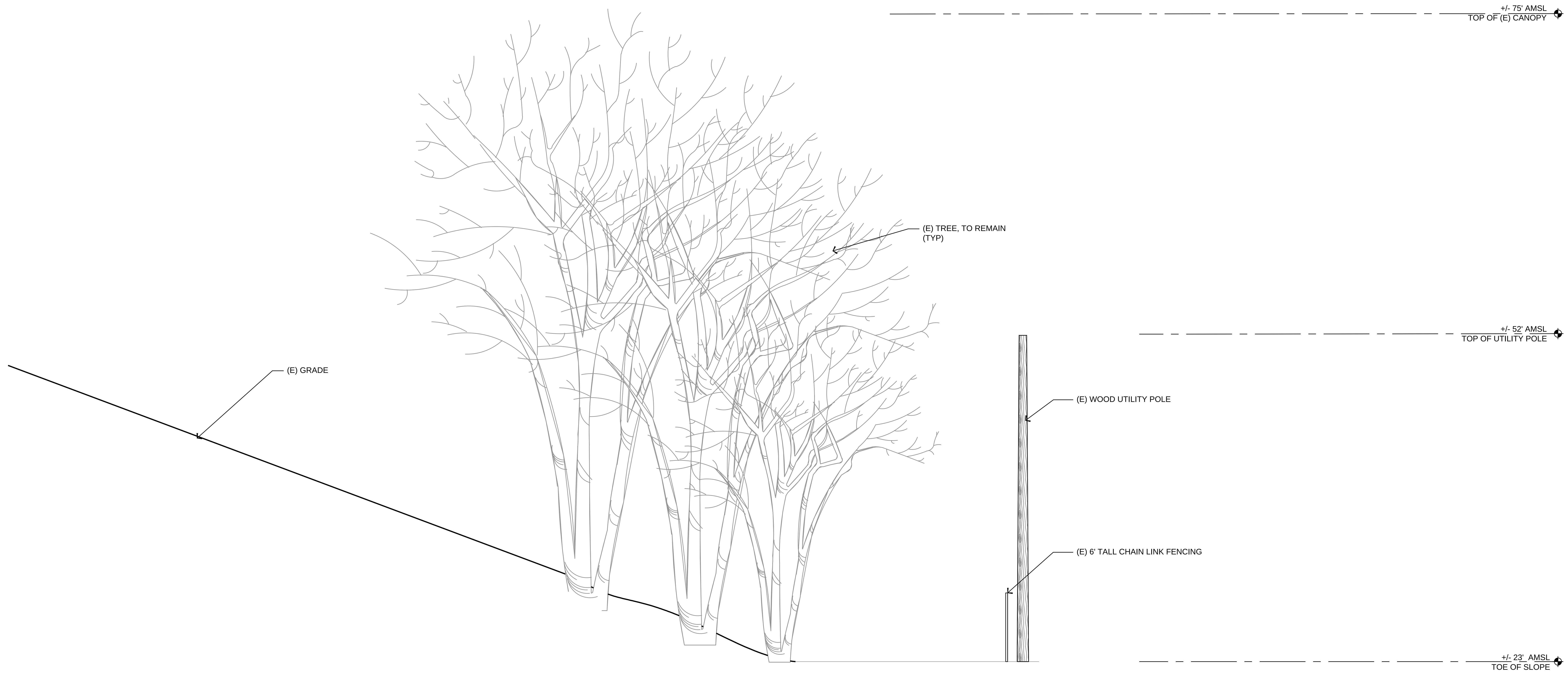
SHEET TITLE:

SITE ELEVATIONS

SHEET NUMBER:

A-3.4



8' 4' 0 8' 16'

3/16"=1'-0"

17 EXISTING SOUTH ELEVATION

3/16" = 1'-0"

AT&T Site ID:

CCL04382

Consultant:

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AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
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A	01/21/19	90% ZD SUBMITTAL

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SHEET TITLE:

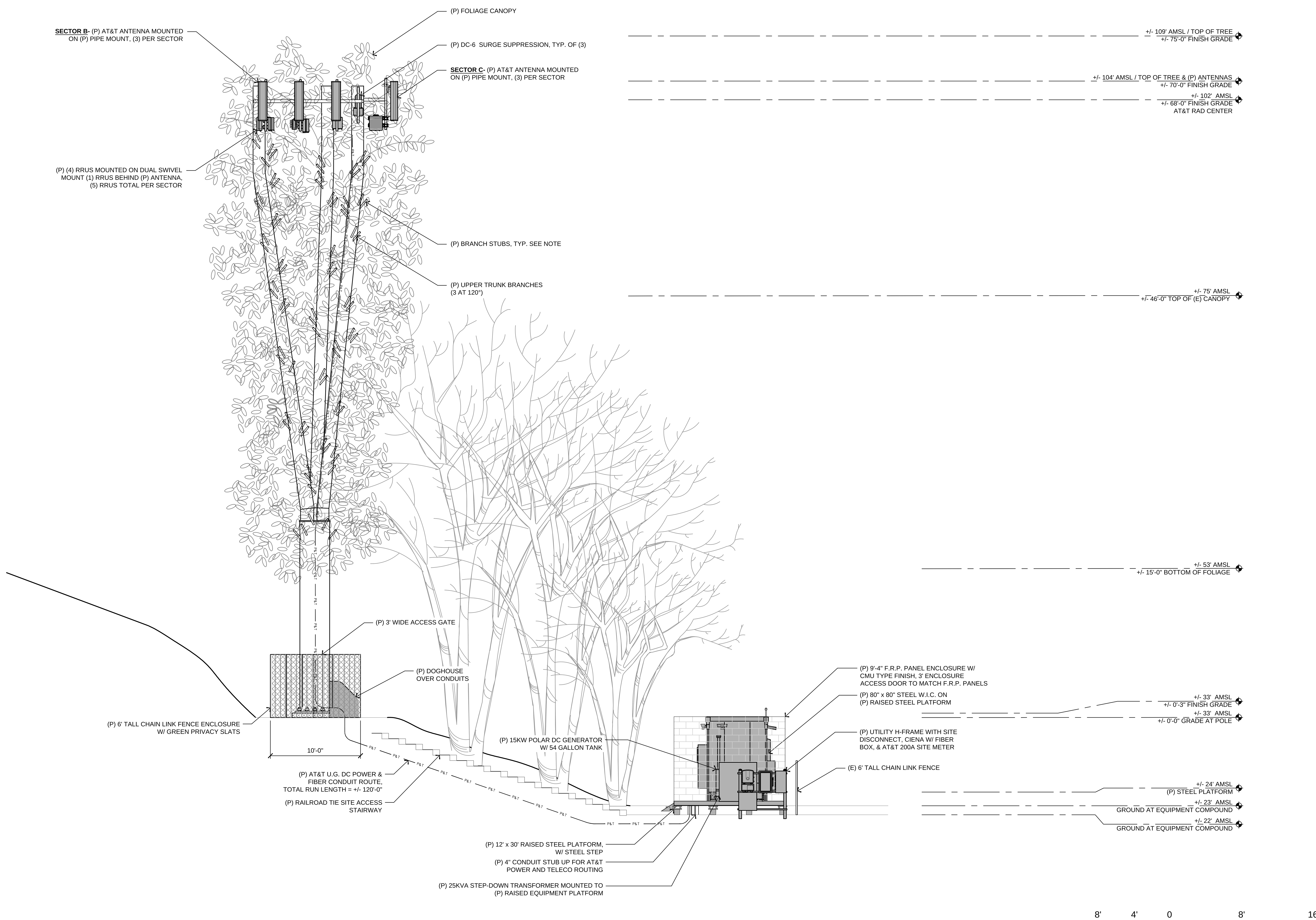
SITE ELEVATIONS

SHEET NUMBER:

A-3.5

NOTE:

1. BRANCHES SHOWN ON MONO-TREE ARE FOR ILLUSTRATIVE PURPOSES ONLY, NOT TO SCALE



17 PROPOSED SOUTH ELEVATION

3/16" = 1'-0"

AT&T Site ID:

CCL04382

Consultant:

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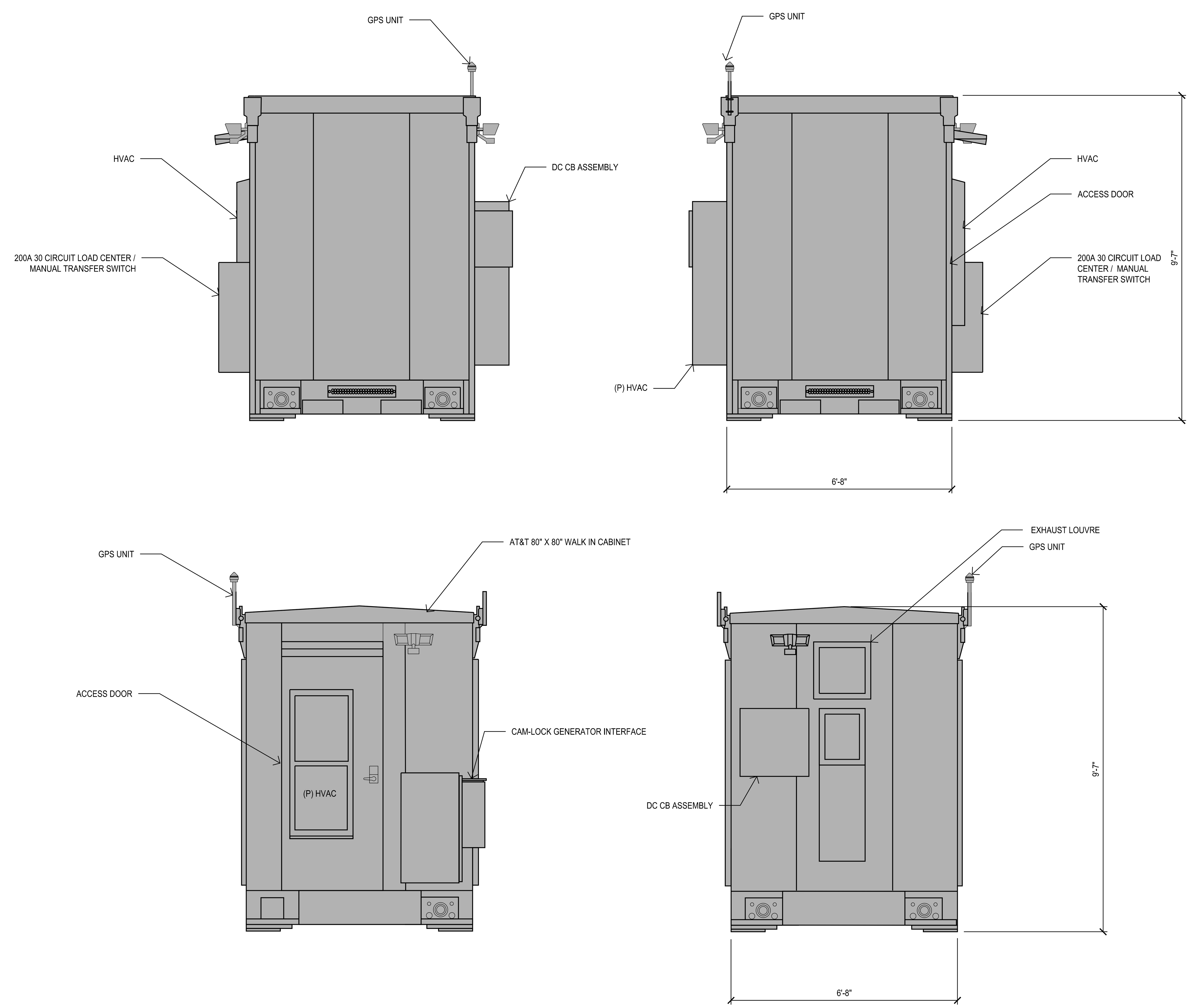
SHEET TITLE:

SITE ELEVATION

SHEET NUMBER:

A-3.6



9 STEEL WIC SPECIFICATIOS
1/2" = 1'-0"

AT&T Site ID:
CCL04382

Consultant:
J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
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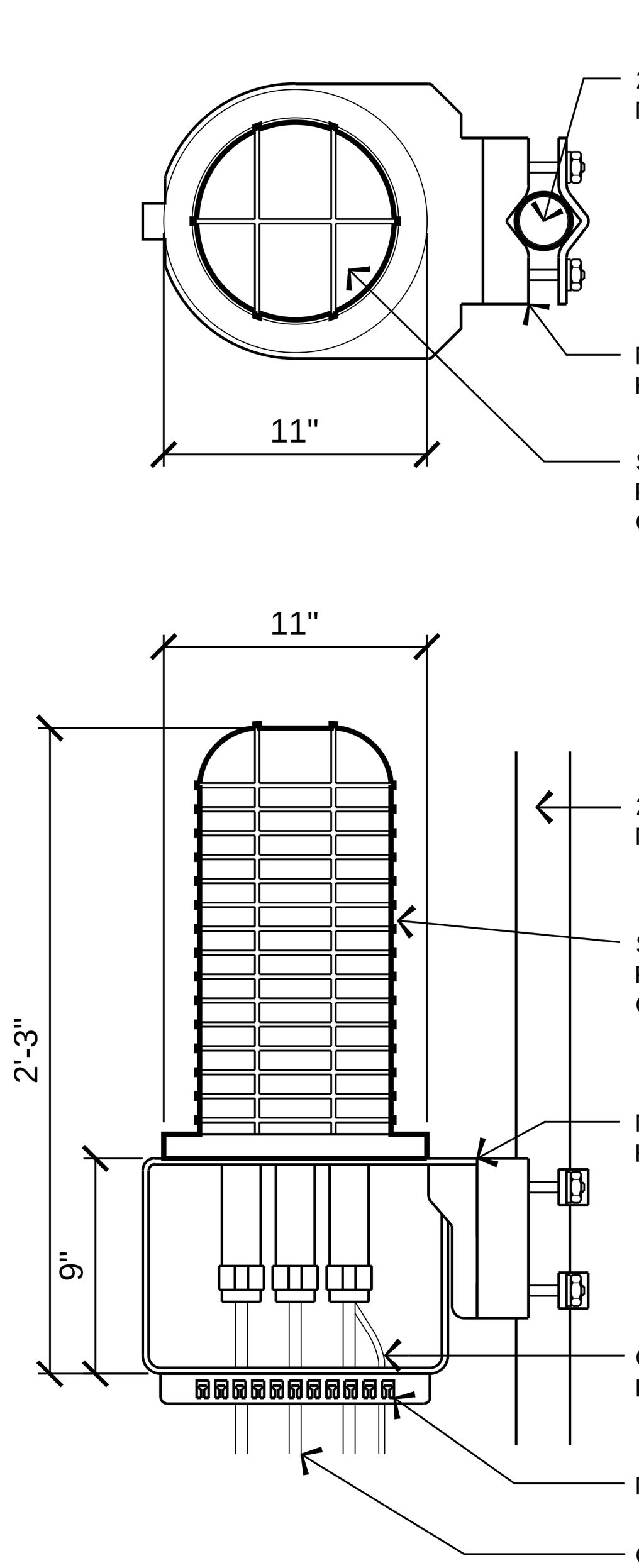
SHEET TITLE:
SHELTER SPEC SHEET

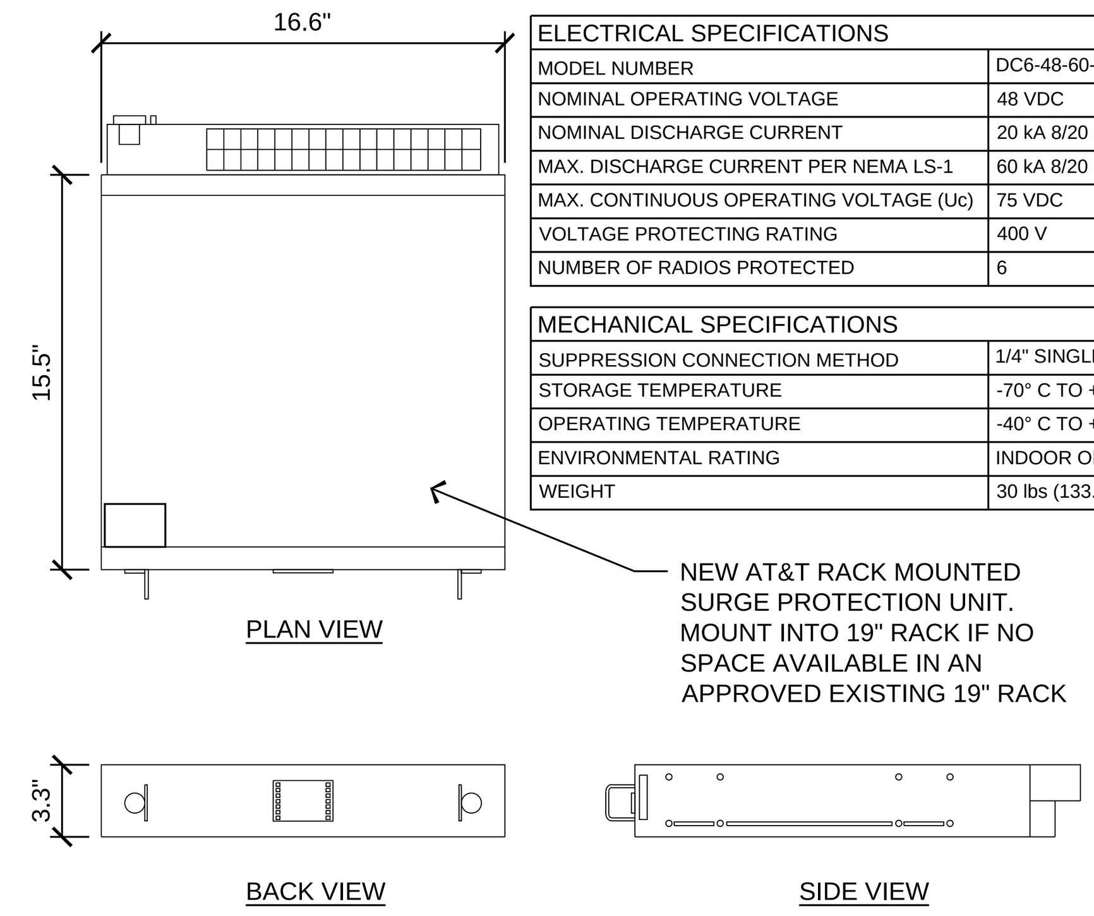
SHEET NUMBER:
A-4

RAYCAP DC6-48-60-18-8F SURGE SUPPRESSION SOLUTION

COLOR: BLACK/SILVER
DIMENSIONS: 11" DIA X 27" TALL W/ 9" BASE
WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



19 DC SURGE SUPPRESSION
1 1/2" = 1'-0"

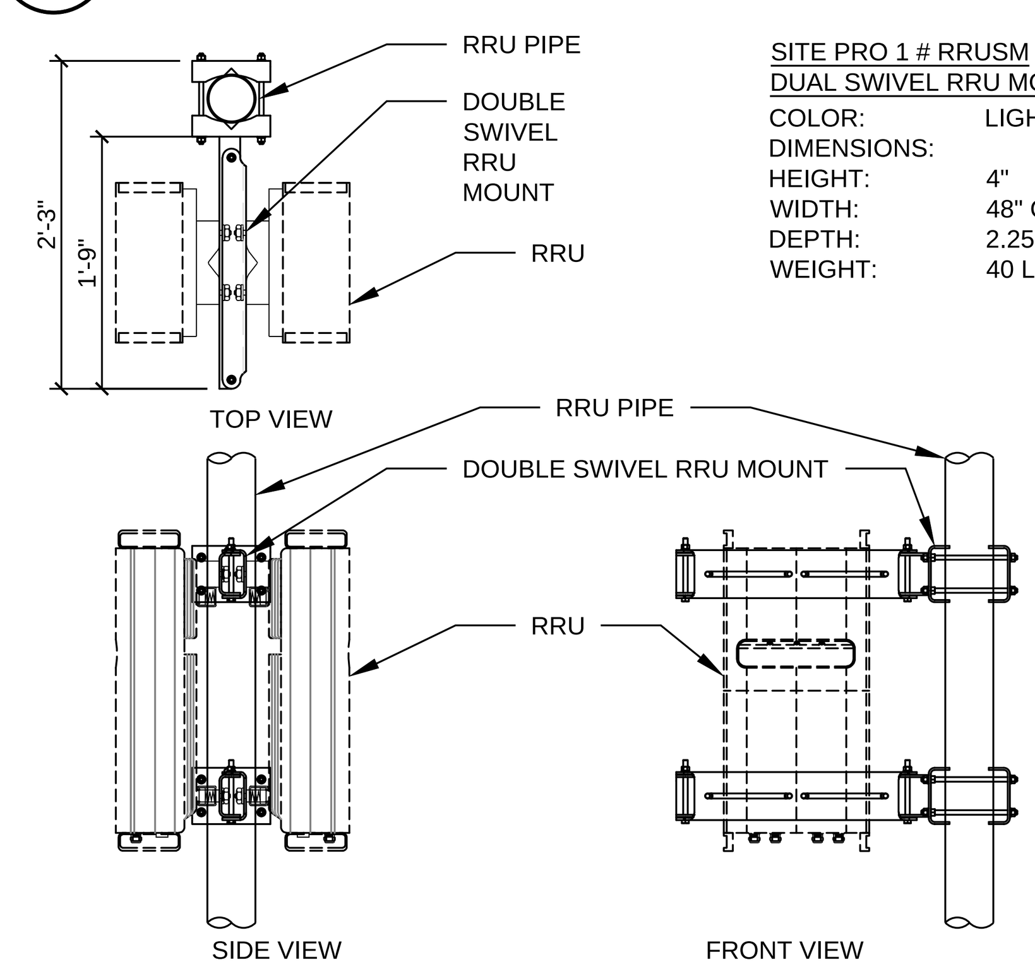


ELECTRICAL SPECIFICATIONS	
MODEL NUMBER	DC6-48-60-RM
NOMINAL OPERATING VOLTAGE	48 VDC
NOMINAL DISCHARGE CURRENT	20 kA 8/20 us
MAX. DISCHARGE CURRENT PER NEMA LS-1	60 kA 8/20 us
MAX. CONTINUOUS OPERATING VOLTAGE (Uc)	75 VDC
VOLTAGE PROTECTING RATING	400 V
NUMBER OF RADIOS PROTECTED	6

MECHANICAL SPECIFICATIONS	
SUPPRESSION CONNECTION METHOD	1/4" SINGLE LUG
STORAGE TEMPERATURE	-70° C TO +80° C
OPERATING TEMPERATURE	-40° C TO +80° C
ENVIRONMENTAL RATING	INDOOR ONLY
WEIGHT	30 lbs (133.45 N)

16 DC6-48-60 SURGE SUPPRESSOR
1 1/2" = 1'-0" rename me to this view "dwg" name

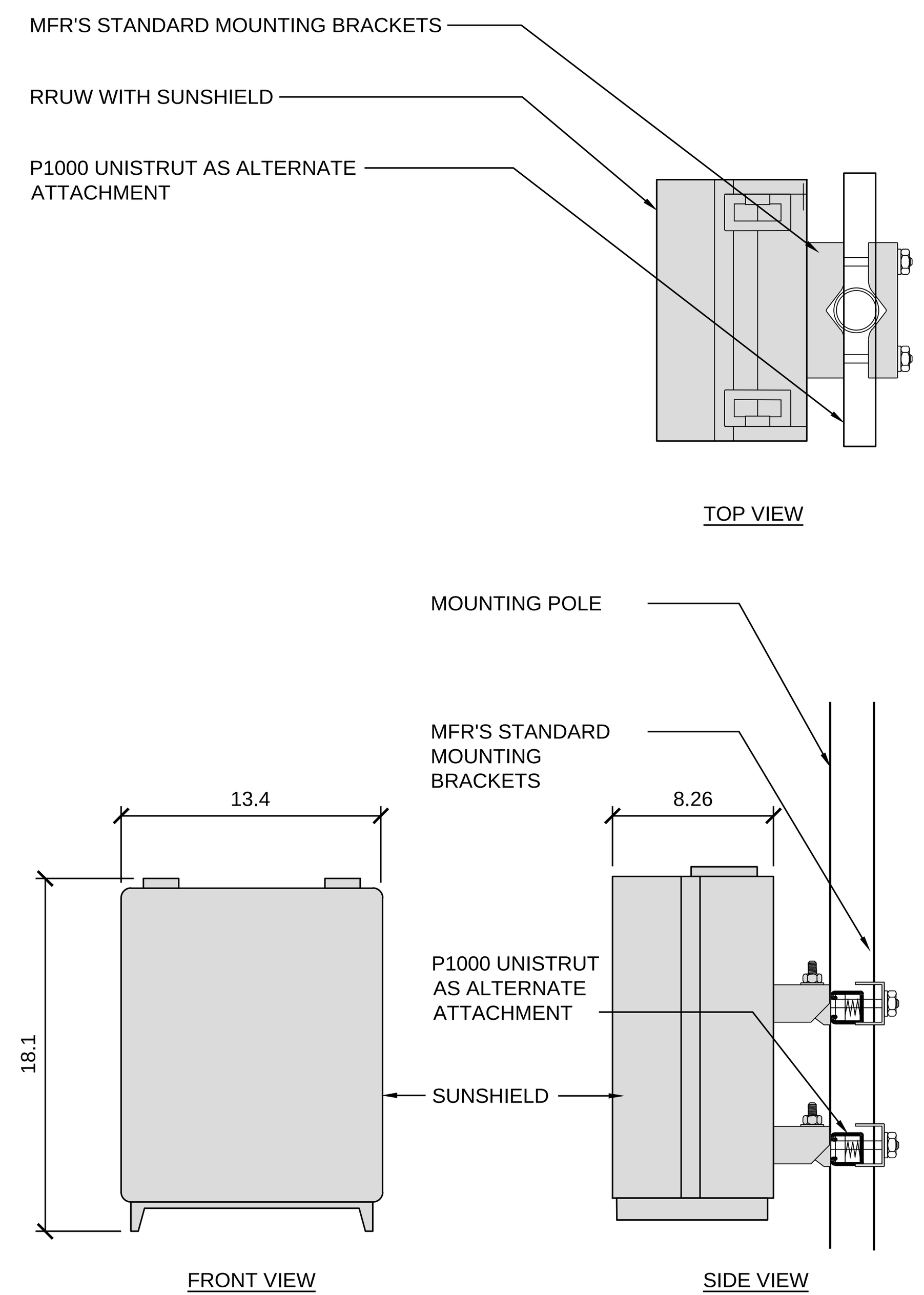
SITE PRO 1 # RRUSM
DUAL SWIVEL RRU MOUNT
COLOR: LIGHT GRAY
DIMENSIONS:
HEIGHT: 4"
WIDTH: 48" OPEN
DEPTH: 2.25"
WEIGHT: 40 LBS.



15 DOUBLE SIDED RRU MOUNT W_RRU
3/4" = 1'-0"

ERICSSON RRUS 4478 B14 REMOTE RADIO UNIT

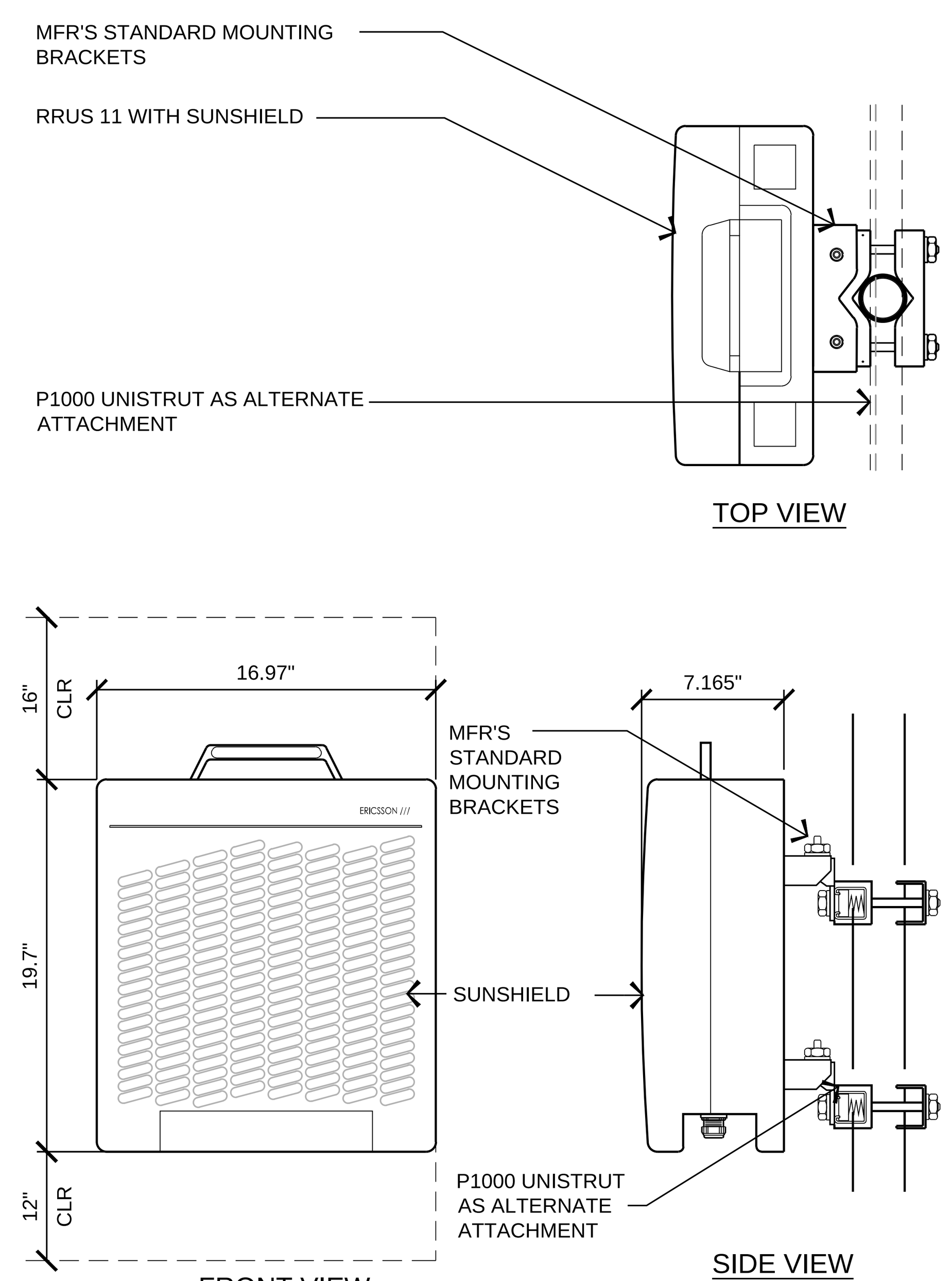
COLOR: WHITE
DIMENSIONS: 18.1" TALL X 13.4" WIDE X 8.26" DEEP (INCLUDING SUNSHIELD)
WEIGHT: +/- 59.4 LBS. (EXCLUDING MOUNTING HARDWARE)



11 ERICSSON RRUS 4478 B14
1 1/2" = 1'-0"

ERICSSON RRUS 11 REMOTE RADIO UNIT

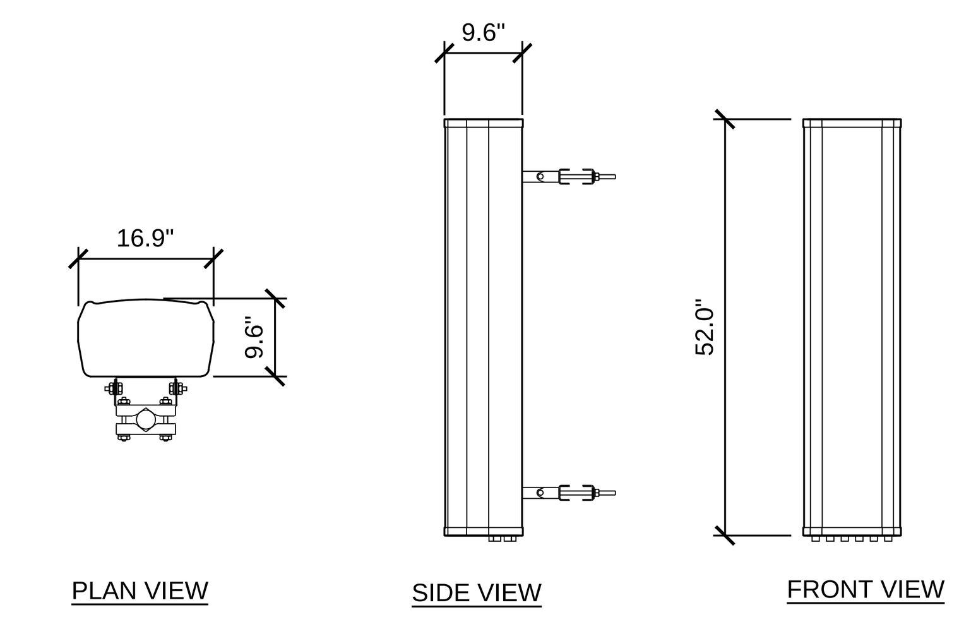
COLOR: WHITE
DIMENSIONS: 19.7" TALL X 16.97" WIDE X 7.165" DEEP (INCLUDING SUNSHIELD)
WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



7 ERICSSON RRUS-11
1 1/2" = 1'-0"

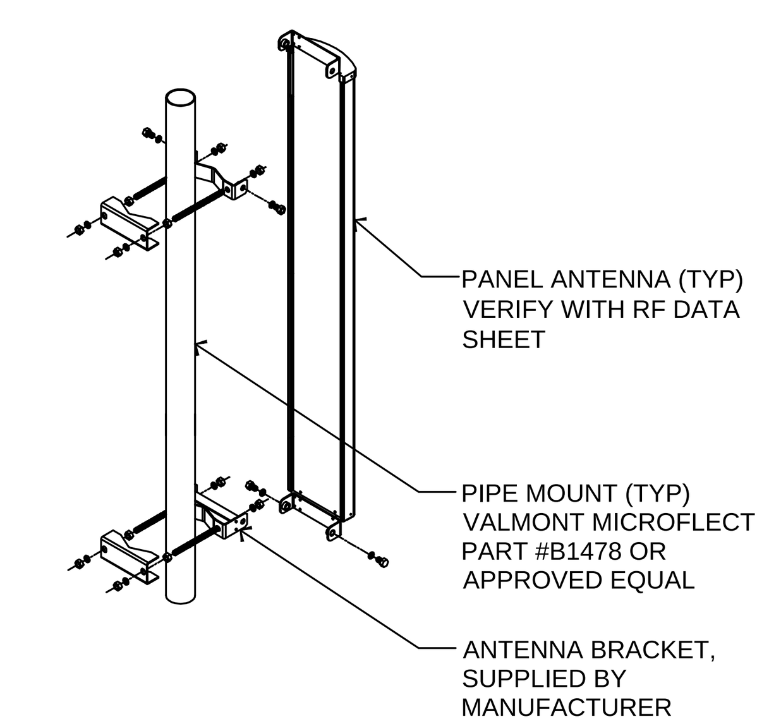
ANTENNA MAKE AND MODEL

MANUFACTURER: QUINTEL
MODEL: QS4458-5
DIMENSIONS, HxWxD: 52" x 16.9" x 9.6"
WEIGHT: 90.0 lbs
CONNECTOR: 8 x 4.3-10 DIN
FEMALE LONG NECK



4 OCTO-PORT MULTI-BAND ANTENNA
1/2" = 1'-0"

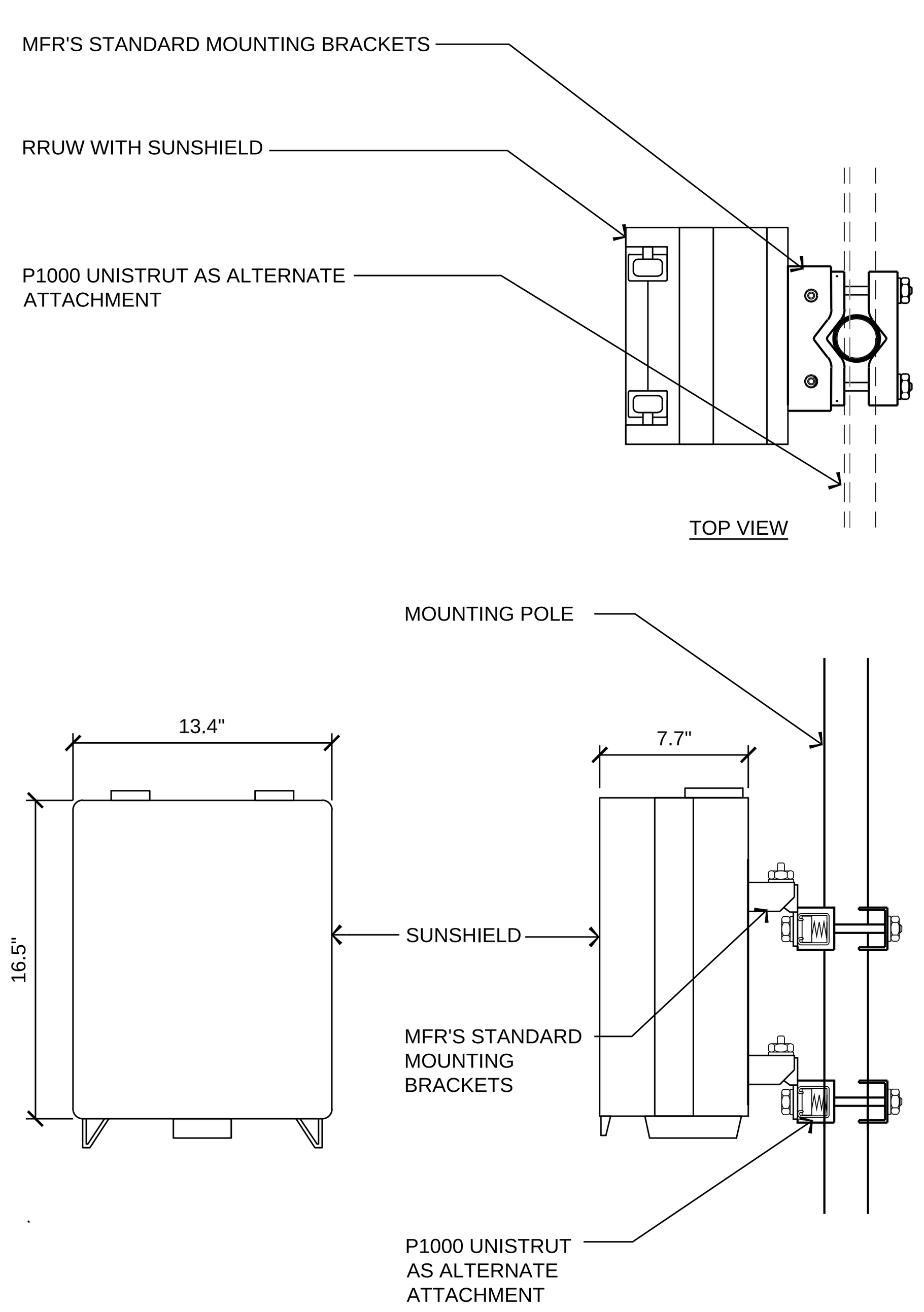
NOTE:
1. THE NUMBER OF CONNECTORS WILL VARY BASED ON ANTENNA TYPE
2. CONTRACTOR TO VERIFY EXACT PARTS LIST AND ANTENNA INSTALLATION WITH MANUFACTURERS SPECIFICATIONS AND CONSTRUCTION MANAGER



3 ANTENNA MOUNT DETAIL
3/4" = 1'-0"

ERICSSON RRUSD 4478 B5 REMOTE RADIO UNIT

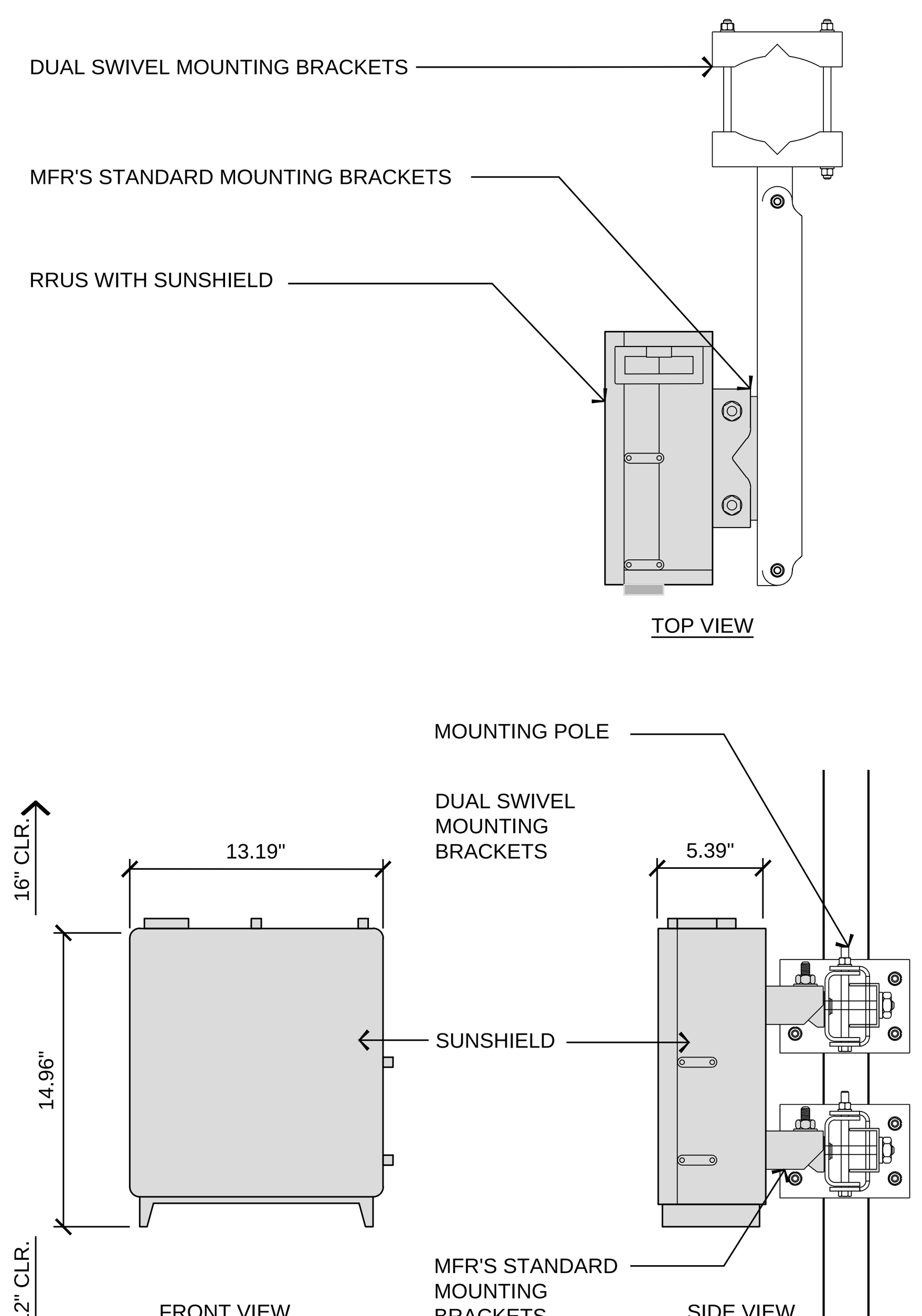
COLOR: WHITE
DIMENSIONS: 16.5" TALL X 13.4" WIDE X 7.7" DEEP (INCLUDING SUNSHIELD)
WIEGHT: +/- 59.9 LBS. (EXCLUDING MOUNTING HARDWARE)



17 ERICSSION RRUS 4478 B5 REMOTE RADIO UNIT
1 1/2" = 1'-0"

ERICSSON RRUS-4415 REMOTE RADIO UNIT

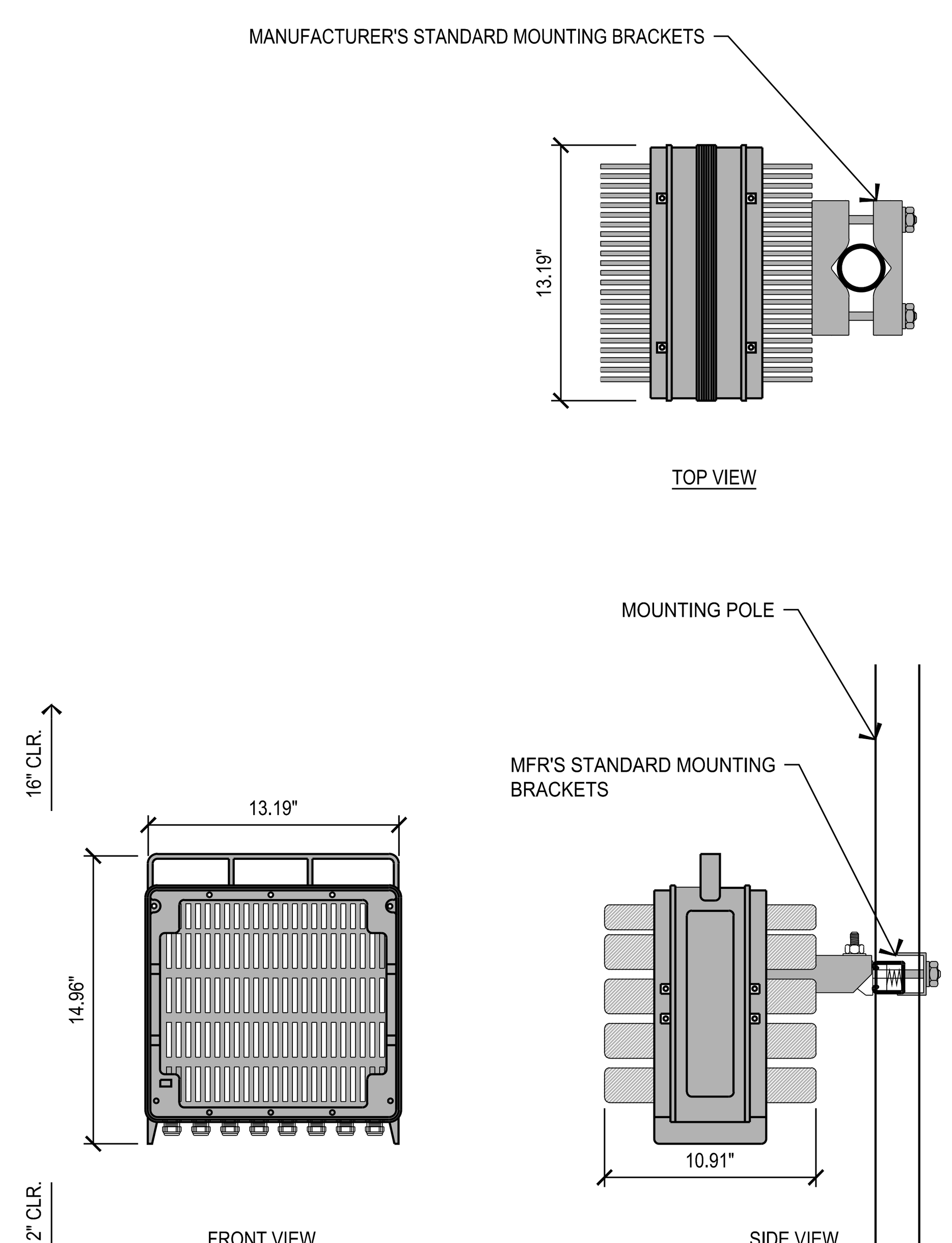
COLOR: WHITE
DIMENSIONS: 16.5" TALL X 13.4" WIDE X 5.4" DEEP (INCLUDING SUNSHIELD)
WIEGHT: +/- 46.0 LBS. (EXCLUDING MOUNTING HARDWARE)



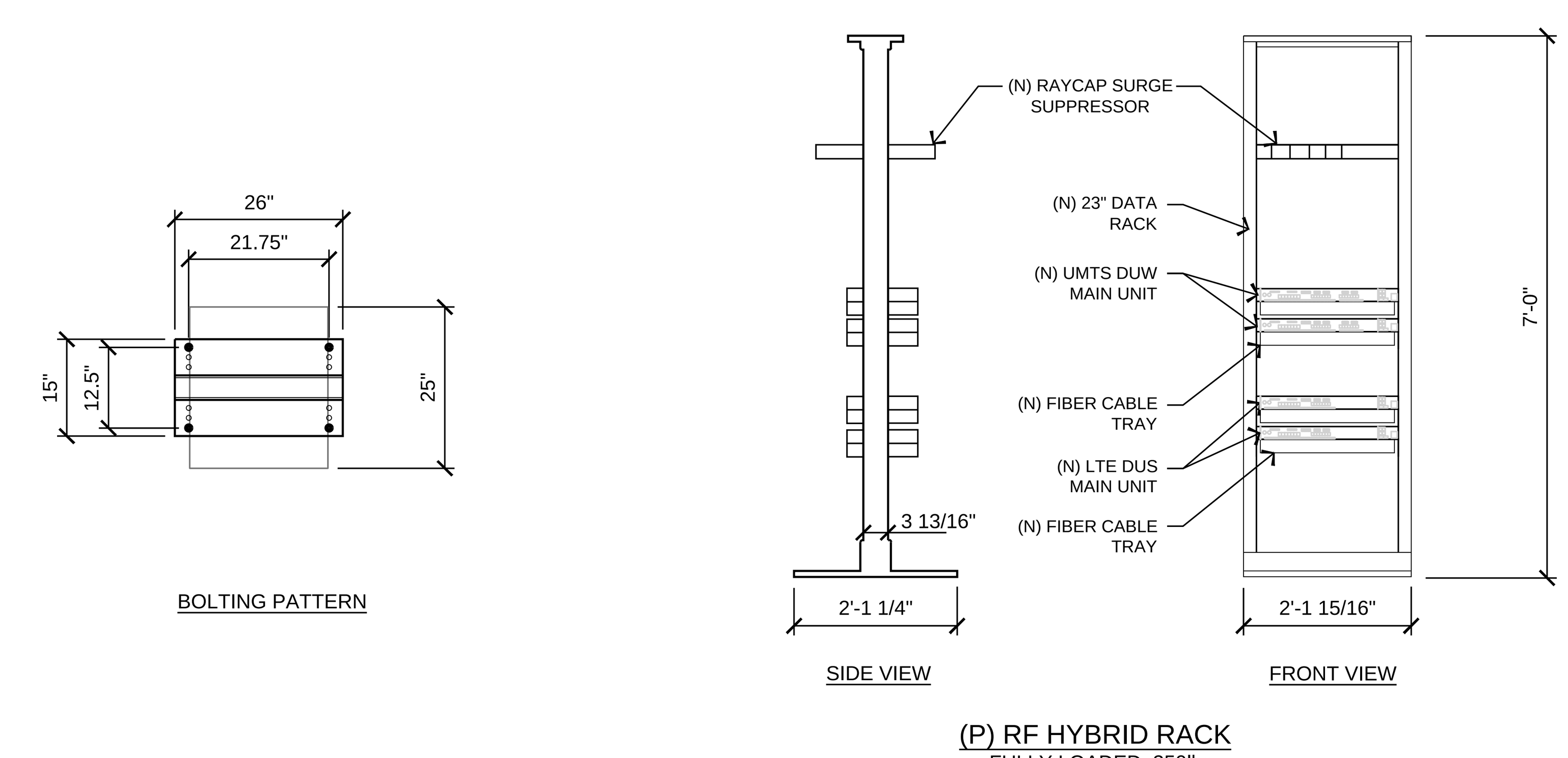
13 ERICSSION RRUS 4415 REMOTE RADIO UNIT
1 1/2" = 1'-0"

ERICSSON RRUS-8843 REMOTE RADIO UNIT

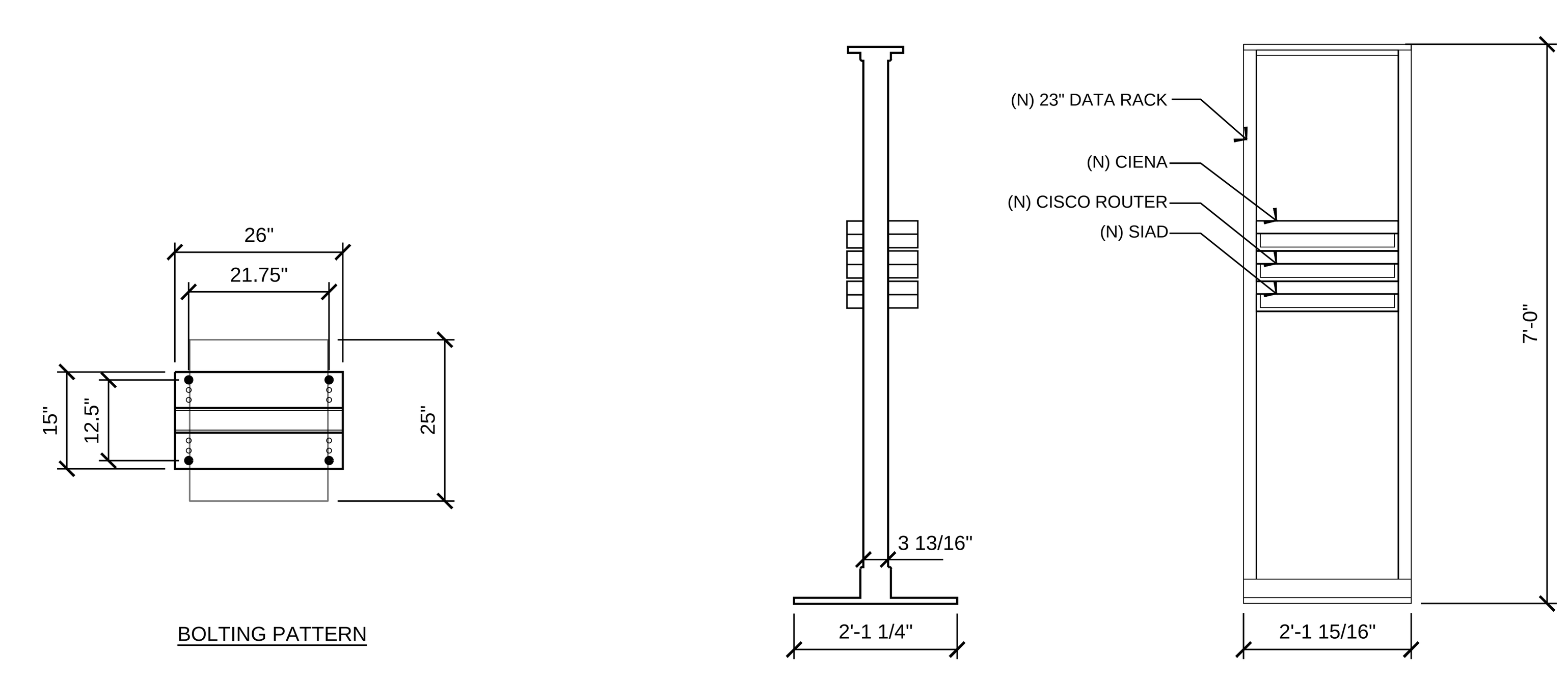
COLOR: WHITE
DIMENSIONS: 14.96" (380mm) TALL X 13.19" (335mm) WIDE X 10.91" (277mm) DEEP
WEIGHT: +/- 71.87 LBS. (32.6kg) EXCLUDING MOUNTING HARDWARE



9 ERICSSON RRUS 8843 DETAIL
1 1/2" = 1'-0"



(P) RF HYBRID RACK
FULLY LOADED: 350lbs



(P) TELCO RACK

5 INTERIOR LTE - UMTS & TELCO RACKS
1/2" = 1'-0"

AT&T Site ID:
CCL04382

Consultant:

J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD. #259
ALAMEDA, CA 94501

PREPARED FOR
at&t
5001 Executive Parkway
San Ramon, California 94583

Architect:

Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
DRAWN BY:	JVM
CHECKED BY:	JES

REV	DATE	DESCRIPTION
H	09/14/20	PHOTO SIM REVS
G	09/02/20	100% ZD ELEC REV
F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

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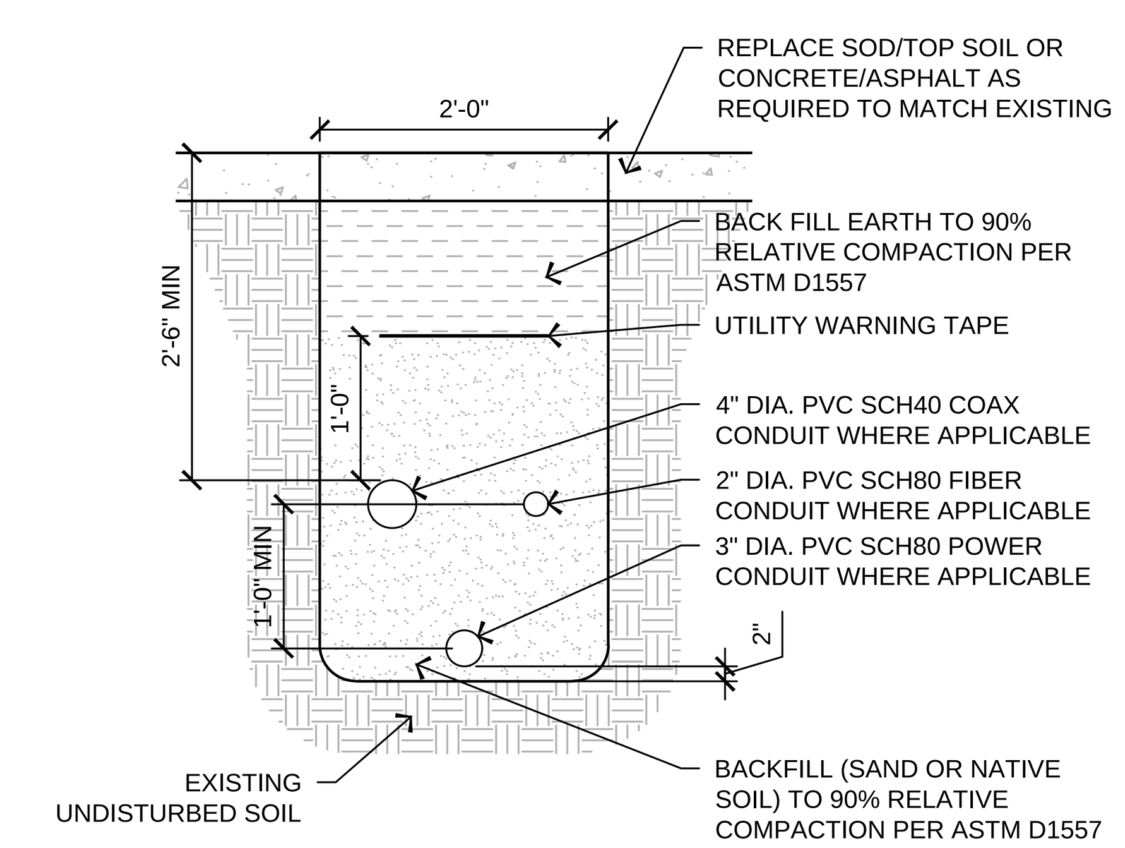
SHEET TITLE:
EQUIPMENT DETAIL SHEET

SHEET NUMBER:
A-5.1



1 TRENCH DETAIL
3/4" = 1'-0"

Plot Date:9/15/2020 10:11:14 AM File NameT:\2018\T-18510_J5_ATT_NSB\CCL04382-01\Candlestick Relo\Sheets\Building A\A-5.2 Equipment Detail Sheet.dwg Plotted By:John McDonnell

AT&T Site ID:
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ALAMEDA, CA 94501

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SHEET TITLE:
EQUIPMENT DETAIL SHEET

SHEET NUMBER:
A-5.2

8220-100 series
Rugged Power

POLAR POWER INC.
Prime Power DC Generator Set

Founded in 1979 Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.
Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and they are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency.
Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

Model Numbers:

8220-100-D-6 - Diesel 6 kW -48 VDC
8220-100-D-10 - Diesel 10 kW -48 VDC
8220-100-D-15 - Diesel 15 kW -48 VDC

Intertek 4003706
Conforms to UL STD 2200
Certified to CSA STD C22.2 No. 100

Meets EPA Emission Regulations
CA/MA Emissions Compliant

2 year standard warranty

Made in USA

The concepts and features behind Polar's Hybrid application generator for telecommunications include:

SMALL FOOTPRINT. Polar's DC generator is considerably smaller in size than an AC generator. You can now backup sites that could not accommodate an AC generator. Smaller also means less cost for space leasing.

LOW MAINTENANCE. Due to oversized oil sump, and oil/fuel filtration system.

LOW ACOUSTIC NOISE. <62 dBA @ 7 meters for diesel, and low vibration so as not to disturb the local residents or building landlords.

LIGHTWEIGHT. Up to 1/3 the weight of a comparable AC generator.

CORROSION RESISTANT. All-aluminum enclosure with stainless hardware for low maintenance, and long service life.

FUEL EFFICIENT. Up to 85% fuel savings due to smaller engine displacement, high efficiency alternator, and variable speed operation.

RODENT RESISTANT. Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, radiator hoses, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines to prevent damage.

SUPERCAPACITOR STARTER. Failure to start is the number one problem plaguing generator reliability and typically this is caused by a bad starting battery. Polar unique design has replaced the starting battery with a Super Capacitor. Capacitors are more reliable and last longer than batteries (10-15 year life).

LONG LIFE. Controls and wire harnesses are designed to exceed a 20 year life. Higher grade, longer life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. No transfer switches are required.

ADVANCED MONITORING. Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with optional SNMP.

POLAR POWER INC.
application and engineering data

COMPARING THE COST OF AC vs DC

	AC	DC
Transfer switch required	Yes	No
Rectifier	Yes	No
Permitting costs	$$	$
Shipping to site and installation cost	$$	$
Site preparation/reinforcing structures	$$$	$
Ethernet/RS232 remote control and monitoring	Extra	Standard

PERMITTING IS FACILITATED

- Small engine horsepower
- DC generator is fully isolated from the utility grid
- Low acoustic noise
- Incorporates all requirements made by local Fire Marshals

8220 ALTERNATOR FEATURES

- No mechanical adjustments
- Very lightweight
- High quality electrical output
- Voltage and current regulation
- Up to 94% efficiency
- -40° to 70° C operational range
- Class 220 C insulation
- Anodized type III process for aluminum parts
- Nickel plating for steel parts
- Stator is varnished

8220 ALTERNATOR SPECIFICATIONS

Type	Permanent Magnets, NdFeB
Weight (lb/kg)	46.5/21
Regulation Type	Variable engine speed operation over 500 RPM range
Stator	3 phase/32 poles
Overcurrent Protection (A)	10 kW - 250 15 kW - 350
Disconnect Means	Fused Disconnect, sized for each generator size.
Voltage Range (VDC)	44 to 62
Alternator Exhaust Flow (cfm/cmm)	130 to 180 or 3.68 to 5.1
MTBF (hr)	100,000+

STARTER SUPERCAPACITOR SPECIFICATIONS

Model	20-16-0001
Storage Rating (Farads)	500
Voltage (VDC)	13-14.4
Weight (lb/kg)	12.1/5.5
Operating Temperature (°C/°F)	-40 to 65 or -40 to 149
Service Life (year)	10 to 15

CHARGER SPECIFICATIONS

Model	00-10-0015
Input Voltage (VDC)	28.8 to 60
Output Voltage (VDC)	14 to 14.4
Recharge time from 0 VDC (min)	10
Recharge time from 8 VDC (min)	2
Weight (lb/kg)	2.2/1

ENCLOSURE

Model	88-25-0100
Type	Weather Protective
Materials	Marine Grade Aluminum
Door Hardware	Pad Locked with Removable Side Panels
Mounting	Secure Mounting Tabs

POLAR POWER INC.
application and engineering data

ENGINE SPECIFICATIONS: 6 - 10 KW DIESEL

Engine Model	Isuzu 3CA1 or Yanmar 3TNV74
Cylinders	3 In-line
Displacement (L)	0.993
Bore (in./mm)	2.91/74
Stroke (in./mm)	3.03/77
Intake Air System	Naturally Aspirated
Engine HP	18
Emissions Compliance	EPA and CARB Certified
Variable RPM	2300 to 2600

ENGINE SPECIFICATIONS: 15 KW DIESEL

Engine Model	Yanmar 3TNV88
Cylinders	3 In-line
Displacement (L)	1.642
Bore (in./mm)	3.4/88
Stroke (in./mm)	3.5/90
Intake Air System	Naturally Aspirated
Engine HP	24
Emissions Compliance	EPA and CARB Certified
Variable RPM	1500 to 1850

ENVIRONMENTAL

Operating Temperature (°C/°F)	-40 to 72 or -40 to 162
Operating Humidity %	100
Cold Start Aids	Glow Plugs

DIESEL FUEL SYSTEM

Type	Diesel
Fuel Pump Type	Electrical
Injector Type	Mechanical
Fuel Filtering	Paper element

ENGINE LUBRICATION SYSTEM

Oil Filter Type	Full flow spin-on canister
Oil Capacity	2.8 L - 3CA1/3TNV74 14 L (optional) - 3CA1/3TNV74 6.7 L - 3TNV88
Oil Pressure Switch	Yes
Oil Pressure Transducer	Optional

ENGINE COOLING SYSTEM

Type	Pressurized Aluminum Radiator
Water Pump	Belt-driven, Pre-lubed, self-sealing
Fan Type	12 V Electric Fans
Fan Quantity	6
CFM	1300
M³/hr.	2200
Fan Mode	Pusher
Temperature Switch	Yes

DIESEL ENGINE FUEL CONSUMPTION

	Output (kW)	gal/hr	L/hr
3CA1/3TNV74	4	0.35	1.32
	5	0.44	1.66
	6	0.53	2
	7	0.615	2.33
	8	0.7	2.65
	9	0.79	2.99
	10	0.88	3.33
3TNV88	15	1.02	3.86

SOUND EMISSIONS

Contact us for current sound data.

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration	1% derate for every 5.6 °C (10 °F) above 25 °C (77 °F)
Altitude Deration	3% derate for every 300 m (1000 ft) above 91 m (300 ft)

WEIGHTS AND DIMENSIONS

	6 - 10 kW Diesel	15 kW Diesel
Dry Weight (lb/kg)	665/302	759/345
Dimensions (LxWxH) (in/cm)	54 x 38 x 38/137 x 97 x 97	

POLAR POWER INC.
operating data

ENGINE COOLING

	6 - 10 kW	15 kW
System coolant capacity (gal/L)	2.2/8.3	
Maximum operation air temperature on radiator (°C/°F)	50/122	57/135
Maximum ambient temperature (°C/°F)	60/140	60/140

COMBUSTION REQUIREMENTS

	6 - 10 kW	15 kW
Flow at rated power (cfm/cmm)	47/1.34	68/1.92

EXHAUST

	6 - 10 kW	15 kW
Exhaust flow at rated output (cfm/cmm)	90/2.55	135/3.82
Exhaust temperature at rated output (°C/°F)	480/900	

CONTROLLER FEATURES

Controller Type........Supra Model 250
4-Line Plain Text LCD Display........Simple user interface for ease of operation
Engine Run Hours Indication........Standard
Programmable Start Delay........Standard
Run/Alarm/Maintenance Logs........Standard
Engine Start Sequence........Cyclic cranking: 5 sec on, 45 sec rest (3 attempts maximum)
Starter Supercapacitor Charger........Standard
Automatic Voltage Regulation with Over and Under Voltage Protection........Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown........Standard
Overcrank/Overspeed........Standard
Automatic High Engine Temperature Shutdown........Standard
Field Upgradeable Firmware........Standard
Glow Plug Delay........Automatic With Temperature
Engine Start Delay........Adjustable, Set at 60 sec
Return to Utility Delay........Adjustable, Set at 60 sec
Engine Cooldown........Adjustable, Set at 60 sec
Exerciser........Programmable, weekly/bi-weekly

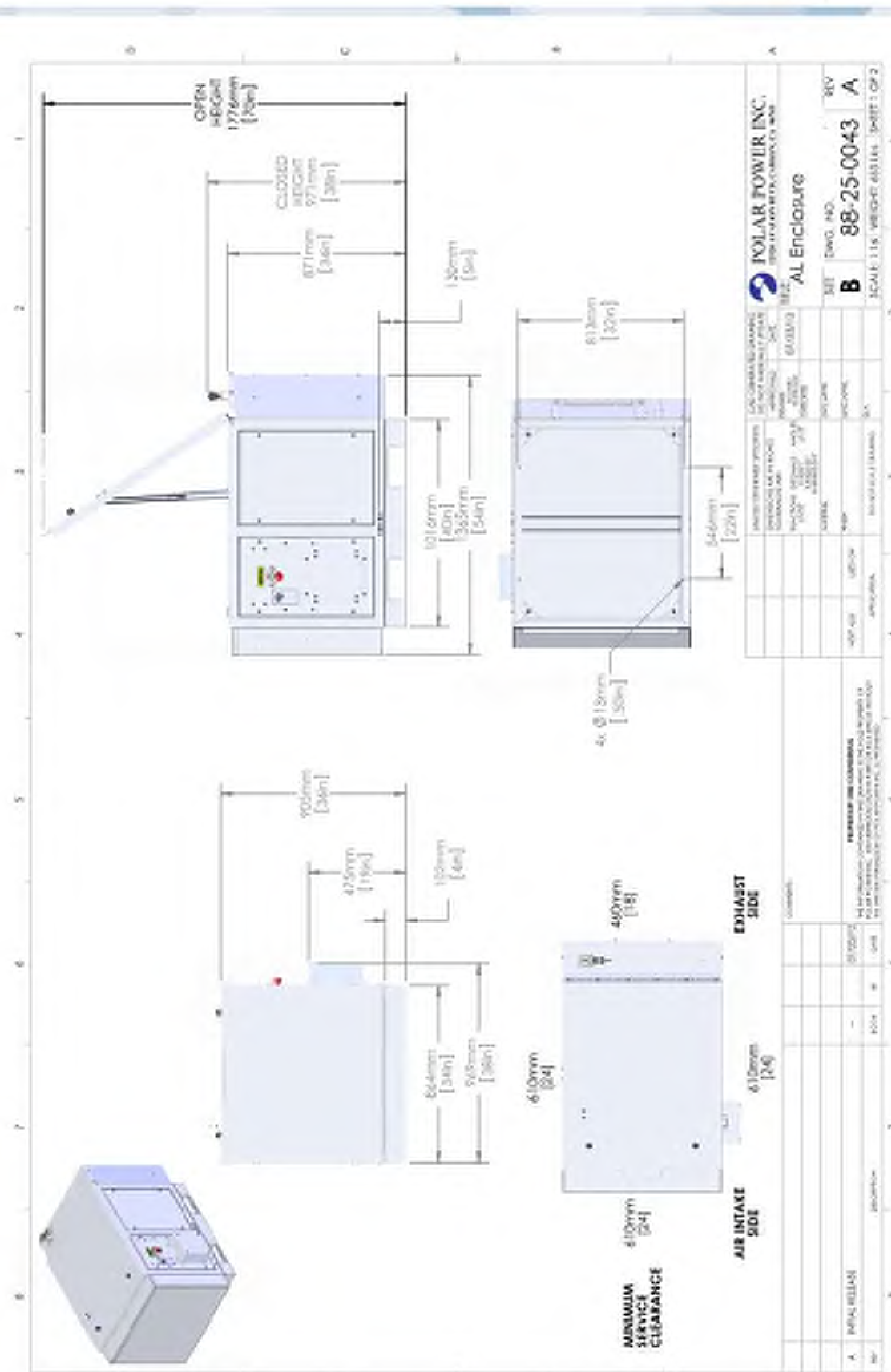
WARNING ALARMS

Low Diesel Fuel Level........Standard
Diesel Fuel Tank Rapture Basin........Standard
Low/High Supercapacitor Voltage........Standard
High Water Temperature........Standard
Low Oil Pressure........Standard

CONTACT CLOSURE FOR REMOTE INDICATION

Shutdown Alarm........Standard
Warning Alarm........Standard
Engine Run........Standard
Low Diesel Fuel Level........Standard
Diesel Fuel Leak........Standard
E-Stop Depressed........Standard
Fuel Level Over 90%........Standard

POLAR POWER INC.
installation layout



POLAR POWER INC.

All Weather Enclosure
for Polar Power's DC Generators

Features

Forklift slots serve as helicopter/crane lifting points.

The enclosure design is designed to retain spilled oil, fuel, and coolant as required at certain installation sites.

The fuel tank is optional to our All Weather Enclosure. A 54 gal. fuel tank can mounted under the enclosure. Customers have installed on site fuel tanks ranging from 20 to 1,000 gallons according to their site refueling requirements. Certain installations even prefer that the fuel tank is remote to the enclosure.

Oil drain is accessible from the outside of the enclosure depending on engine style.

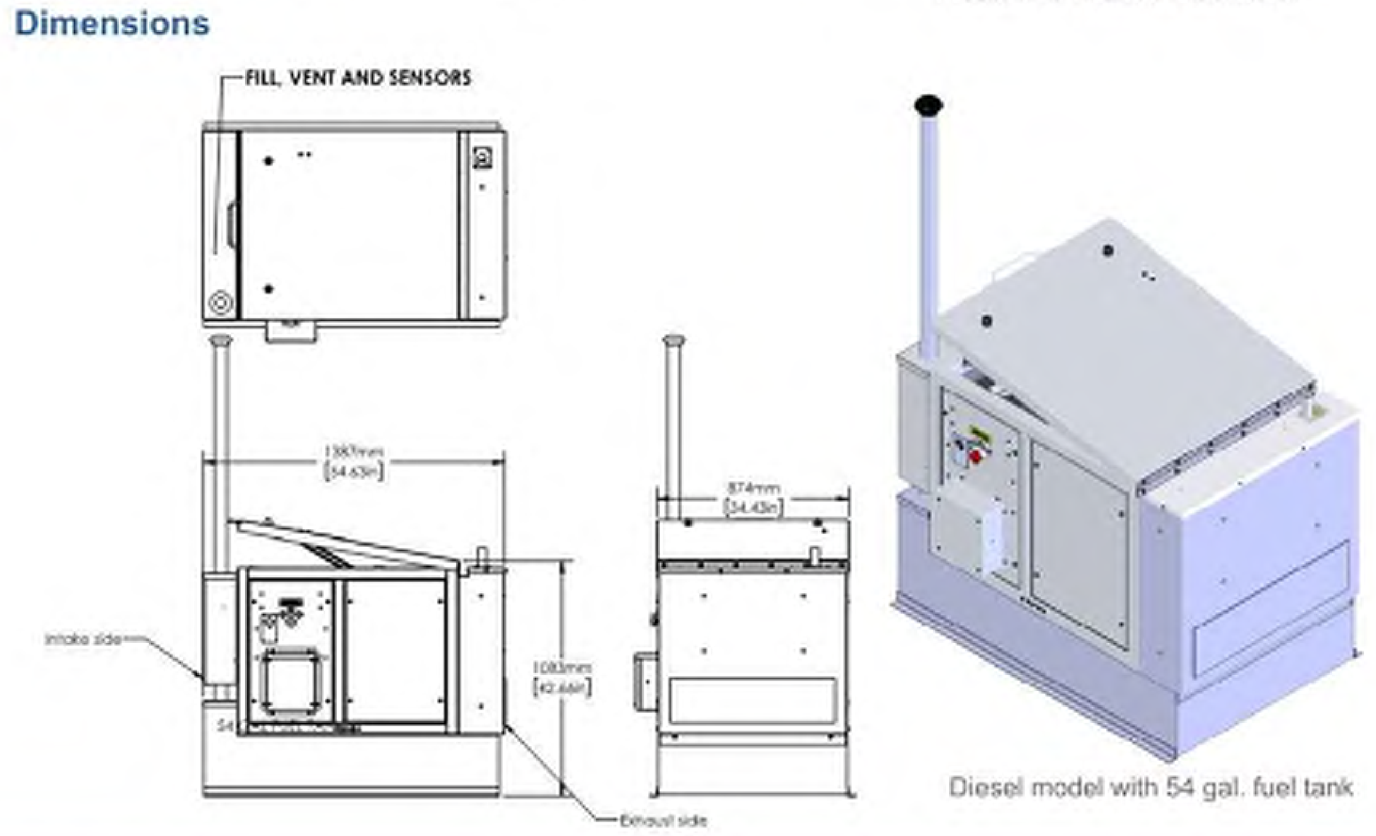
The Power Terminal is accessible through the external junction box.

Fuel connections are accessible through standard ¼" NPT fittings.

Dual Access: Operators can gain access to the DC generator either through the bolt-on side panels or the hinged top.

Propane or Natural Gas model

Dimensions



Diesel model with 54 gal. fuel tank

Polar Power Inc.
249 E. Gardena Blvd
Gardena, CA 90248 USA
Tel: (310) 830 - 9153
sales@polarpowerinc.com
www.polarpower.com

Made in USA

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AT&T Site ID:
CCL04382

Consultant:
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INFRASTRUCTURE
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Architect:
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SHEET TITLE:
GENERATOR SPECIFICATIONS

SHEET NUMBER:
A-6.1

Plot Date:9/15/2020 10:11:18 AM File NameT:\2018\T-18510_J5_ATT_NSB\CCL04382-01\Candlestick Relo\Sheets\Building A\A-6 GENERATOR SPECIFICATIONS.dwg Plotted By:John McDonnell

ELECTRICAL INSTALLATION METHODS:

1. THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
2. INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
3. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
4. CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
5. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
6. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE.
7. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC. CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90°C (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED.
8. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
9. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
10. NEW RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
11. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C.
12. EACH END OF EVERY POWER, GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
13. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION).
14. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
15. RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
16. ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE LFMC, IMC OR RIGID STEEL.
17. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
18. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
22. PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
23. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
24. ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
25. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
26. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
27. EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.
28. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
29. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
30. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
31. SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS.
32. EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
33. DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

NOTES:

1. ALL WIRE TO BE #12 THHN/THWN UNLESS NOTED OTHERWISE.
   COLOR CODE:
   - AO = BLACK
   - BO = RED
   - NEUTRAL = WHITE
   - GROUND = GREEN
2. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
3. LABEL SERVICE DISCONNECT WITH A RED TAG.
4. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
5. PULL WIRES TO END OF FLEXIBLE NONMETALLIC CONDUIT. COIL 3'-0" AT END OF FLEXIBLE NONMETALLIC CONDUIT & TAG.
6. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
7. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
8. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.

KEY:

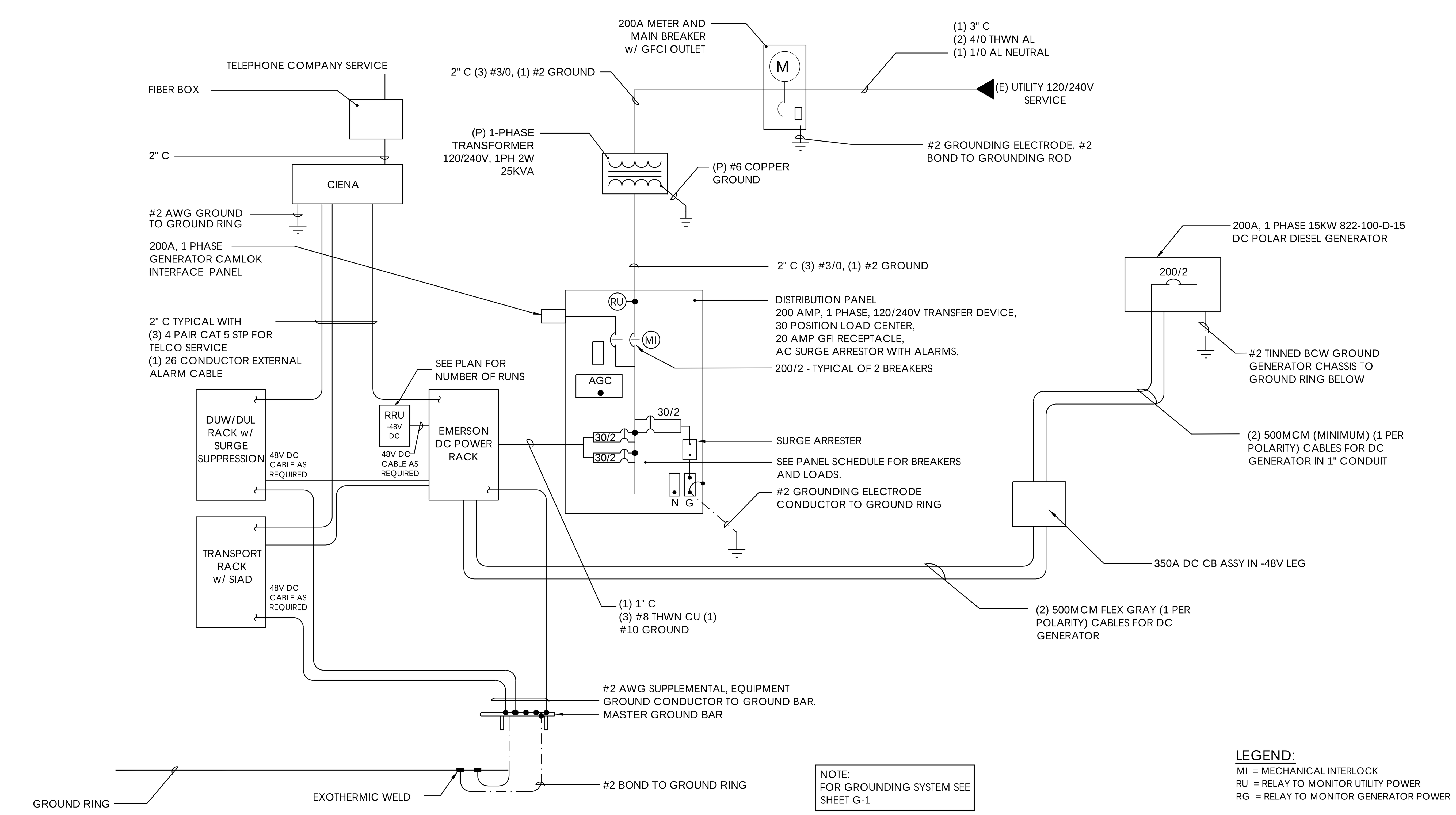
(PC) = PHOTOCELL
(M) = MOTION DETECTOR
- = CONDUIT GROUND
= NON-DEDICATED GROUND
(#) = DEDICATED GROUND
<#> = ISOLATED GROUND

CKT	DESCRIPTION	QTY.	UNIT KVA	LOAD PER PHASE (VA) A	LOAD PER PHASE (VA) B	WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP
1	SHELF 1 & SHELF 3 - PCU #1	1	1.000	1.000		BLK	X			8	(10)	30
3		1	1.000		1.000	RED						
5	SHELF 1 & SHELF 3 - PCU #3	1	1.000	1.000		BLK	X			8	(10)	30
7		1	1.000		1.000	RED						
9	SHELF 2 & SHELF 4 - PCU #1	1	1.000	1.000		BLK	X			8	(10)	30
11		1	1.000		1.000	RED						
13	SPACE					BLK						
15	SPACE					RED						
17	SPACE					BLK						
19	SPACE					RED						
21	SPACE					BLK						
23	SPACE					RED						
25	HVAC #1	1	3.6	3.6		BLK	X			8	(10)	20
27		1	3.6		3.6	RED						
29	APPLIANCE OUTLETS	1	1.000	1.000		BLK	X			12	12	20
	SUBTOTAL CONTINUOUS			7.600	6.600							
	SUBTOTAL NON-CONTINUOUS			-	-							
	SUBTOTAL SUB-PANEL			-	-							

TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA) A	LOAD PER PHASE (VA) B	UNIT KVA	QTY.	DESCRIPTION	CKT
20	12	12		X		BLK	.72		0.180	1	EXT GFCI OUTLET	2
30	(10)	8			X	RED		1.000	1.000	1	SHELF 1 & SHELF 3 - PCU #2	4
						BLK	1.000		1.000	1		6
30	(10)	8			X	RED		1.000	1.000	1	SHELF 2 & SHELF 4 - PCU #2	8
						BLK	1.000		1.000	1		10
30	(10)	8			X	RED		1.000	1.000	1	SHELF 1 & SHELF 3 - PCU #4	12
						BLK	1.000		1.000	1		14
						RED					SPACE	16
						BLK					SPACE	18
						RED					SPACE	20
						BLK					SPACE	22
						RED					SPACE	24
						BLK					SPACE	26
20	12	12		X		RED		.72	0.180	1	EXTERIOR FLOOD LIGHTS	28
						BLK					SPACE	30
							3.00	3.00	SUBTOTAL CONTINUOUS		TOTAL KVA CONTINUOUS x 1.25	25.25
							.72	.72	SUBTOTAL NON-CONTINUOUS		TOTAL KVA NON-CONTINUOUS	1.44
							-	-	SUBTOTAL SUB-PANEL		TOTAL KVA SUB-PANEL	-
											TOTAL KVA	26.69
											TOTAL AMPS	111.20

PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 1)
MAIN LUGS: N/A | MAIN BREAKER: 200 AMP | MAIN BREAKER A.I.C RATING: 22,000 A.I.C | BRANCH BREAKER A.I.C RATING: 10,000 A.I.C
VOLTAGE: 120/240 | CYCLE: 60 | PHASE: 1 | WIRES: 3 | MAIN COPPER BUS: 200 AMP | NEUTRAL: 200 AMPS | BRANCH BREAKER TYPE: SQUARE D - BOLT ON

11 WIC A/C POWER SCHEDULE
N.T.S.



ABBREVIATIONS:

BCW	BARE COPPER WIRE
BTS	BASE TRANSCEIVER STATION
C	CONDUIT
(E)	EXISTING
EG	EQUIPMENT GROUND
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
GEN	GENERATOR
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MCM	MILLION CIRCULAR MILLS
MI	MECHANICAL INTERLOCK
MP&S	SEE MECHANICAL PLANS & SPECIFICATIONS
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PFB	PROVISION FOR FUTURE BREAKER
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE
RG	RELAY TO MONITOR GENERATOR POWER
RU	RELAY TO MONITOR UTILITY POWER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

17 ABBREVIATIONS
N.T.S.

13 ELECTRICAL NOTES
N.T.S.

9 SINGLE LINE DIAGRAM
N.T.S.

AT&T Site ID:
CCL04382

Consultant:

J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, #259
ALAMEDA, CA 94501

PREPARED FOR
at&t
5001 Executive Parkway
San Ramon, California 94583

Architect:

Borges ARCHITECTURAL GROUP
borgesarch.com
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE CA 95661
916 782 7200 TEL
916 773 3037 FAX

AT&T SITE NO:	CCL04382
PROJECT NO:	T-18510-01
DRAWN BY:	JVM
CHECKED BY:	JES

REV	DATE	DESCRIPTION
H	09/14/20	PHOTO SIM REVS
G	09/02/20	100% ZD ELEC REV
F	07/14/20	PHOTO SIMS & 3D
E	07/08/20	100% ZD REDLINES
D	02/10/20	100% ZD REV 2
C	10/29/19	100% ZD REV 1
B	07/25/19	100% ZD SUBMITTAL
A	01/21/19	90% ZD SUBMITTAL

Licensor:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Issued For:
09/14/20
100% ZD Photo Sim Revs

SHEET TITLE:
SINGLE LINE DIAGRAM & POWER PANEL SCHEDULE

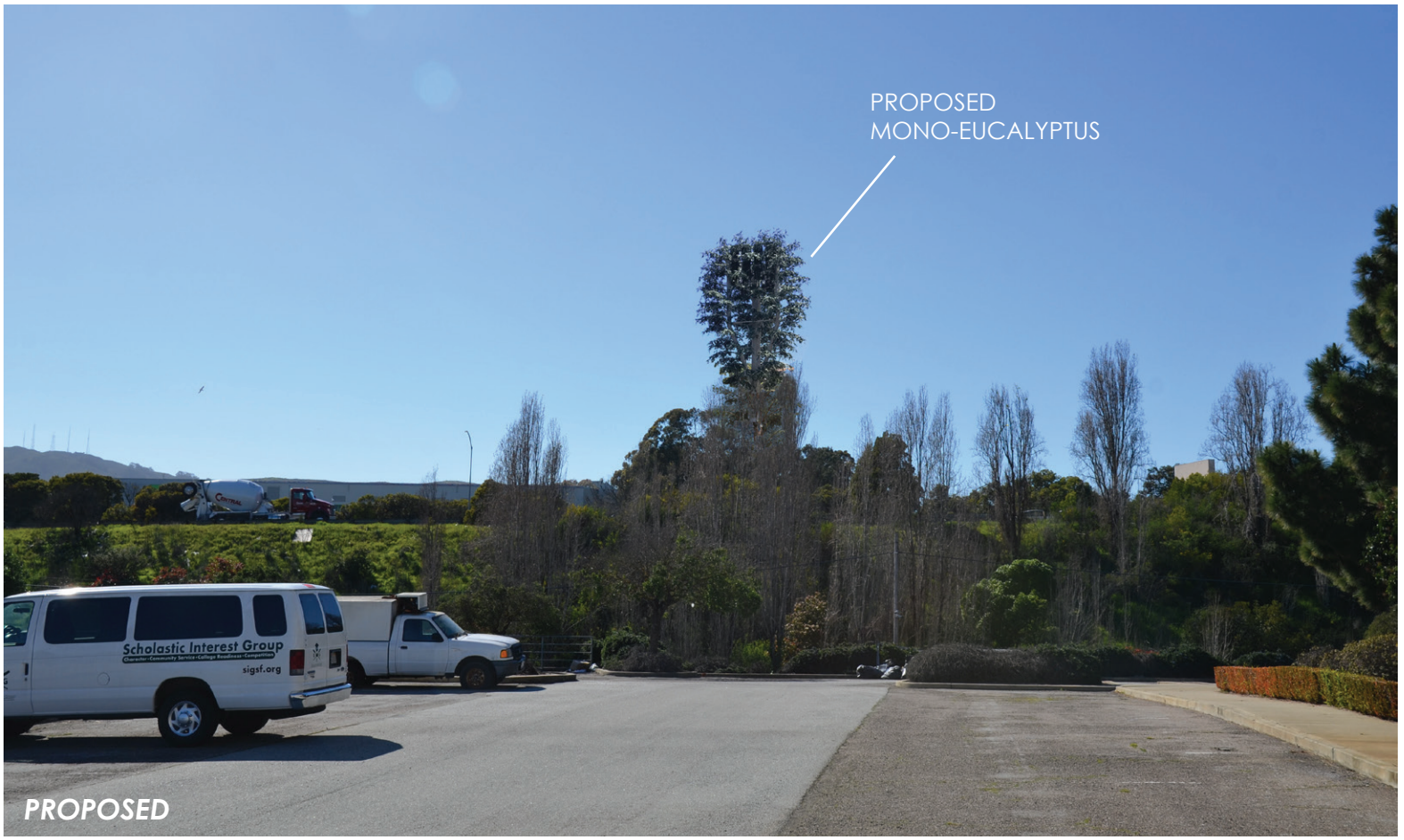
SHEET NUMBER:
E-1

PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 1**

at&t

EXISTING



PROPOSED

PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 2**

at&t

PHOTOSIMULATION *Install (9) panel antennas on proposed mono-eucalyptus with equipment shelter below*

REV 5 - 3/27/20 | **CCL04382** | ALANNA WAY & EXECUTIVE PARK SF CA 94134 | **VIEW 3**

at&t

PHOTOSIMULATION

at&t

San Francisco Planning

49 South Van Ness Avenue, Suite 1400
San Francisco, CA 94103
628.652.7600
www.sfplanning.org

CEQA Categorical Exemption Determination

PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address		Block/Lot(s)
CALTRANS PUBLIC ROW		4991066
Case No.		**Permit No.**
2018-009545PRJ		
■ **Addition/ Alteration**	☐ **Demolition (requires HRE for Category B Building)**	☐ **New Construction**

Project description for Planning Department approval.

Caltrans Row - AT&T Mobility WTS Facility New Site Build: Install AT&T Shelter with Generator Room, Monoeucalyptus, (9) Panel Antennas (3) Per Sector on Monoeucalyptus, (18) RRH, Total of (4) Per Sector with (2) (F), (3) New Surge Suppression Units, (1) GPS Antenna, (3) 23" Racks (Hybrid Rack, FIF Rack and DC Power Plant, Install 50kw diesel Generator with 190 Gallon Tank, CMU Wall Enclosure, Chain Link Access Gate.

STEP 1: EXEMPTION CLASS

The project has been determined to be categorically exempt under the California Environmental Quality Act (CEQA).

■	**Class 1 - Existing Facilities.** Interior and exterior alterations; additions under 10,000 sq. ft.
☐	**Class 3 - New Construction.** Up to three new single-family residences or six dwelling units in one building; commercial/office structures; utility extensions; change of use under 10,000 sq. ft. if principally permitted or with a CU.
☐	**Class 32 - In-Fill Development.** New Construction of seven or more units or additions greater than 10,000 sq. ft. and meets the conditions described below: (a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations. (b) The proposed development occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses. (c) The project site has no value as habitat for endangered rare or threatened species. (d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality. (e) The site can be adequately served by all required utilities and public services. **FOR ENVIRONMENTAL PLANNING USE ONLY**
☐	**Class ____**

STEP 2: CEQA IMPACTS

TO BE COMPLETED BY PROJECT PLANNER

☐	**Air Quality:** Would the project add new sensitive receptors (specifically, schools, day care facilities, hospitals, residential dwellings, and senior-care facilities within an Air Pollution Exposure Zone? Does the project have the potential to emit substantial pollutant concentrations (e.g., backup diesel generators, heavy industry, diesel trucks, etc.)? (*refer to EP _ArcMap > CEQA Catex Determination Layers > Air Pollution Exposure Zone)*
☐	**Hazardous Materials:** If the project site is located on the Maher map or is suspected of containing hazardous materials (based on a previous use such as gas station, auto repair, dry cleaners, or heavy manufacturing, or a site with underground storage tanks): Would the project involve 50 cubic yards or more of soil disturbance - or a change of use from industrial to residential? **Note that a categorical exemption shall not be issued for a project located on the Cortese List** *if the applicant presents documentation of enrollment in the San Francisco Department of Public Health (DPH) Maher program, a DPH waiver from the Maher program, or other documentation from Environmental Planning staff that hazardous material effects would be less than significant (refer to EP_ArcMap > Maher layer).*
☐	**Transportation:** Does the project involve a child care facility or school with 30 or more students, or a location 1,500 sq. ft. or greater? Does the project have the potential to adversely affect transit, pedestrian and/or bicycle safety (hazards) or the adequacy of nearby transit, pedestrian and/or bicycle facilities?
☐	**Archeological Resources:** Would the project result in soil disturbance/modification greater than two (2) feet below grade in an archeological sensitive area or eight (8) feet in a non-archeological sensitive area? If yes, archeo review is requried (*refer to EP_ArcMap > CEQA Catex Determination Layers > Archeological Sensitive Area)*
☐	**Subdivision/Lot Line Adjustment:** Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? (*refer to EP_ArcMap > CEQA Catex Determination Layers > Topography*). If yes, Environmental Planning must issue the exemption.
☐	**Slope = or > 25%:** Does the project involve any of the following: (1) square footage expansion greater than 500 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (*refer to EP_ArcMap > CEQA Catex Determination Layers > Topography*) **If box is checked, a geotechnical report is required and Environmental Planning must issue the exemption.**
☐	**Seismic: Landslide Zone:** Does the project involve any of the following: (1) square footage expansion greater than 500 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? *(refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones)* **If box is checked, a geotechnical report is required and Environmental Planning must issue the exemption.**
☐	**Seismic: Liquefaction Zone:** Does the project involve any of the following: (1) square footage expansion greater than 500 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? *(refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones)* **If box is checked, a geotechnical report will likely be required and Environmental Planning must issue the exemption.**

Comments and Planner Signature (*optional*): Ashley Lindsay

STEP 3: PROPERTY STATUS - HISTORIC RESOURCE

TO BE COMPLETED BY PROJECT PLANNER

PROPERTY IS ONE OF THE FOLLOWING: *(refer to Property Information Map)*	
☐	**Category A:** Known Historical Resource. **GO TO STEP 5.**
☐	**Category B:** Potential Historical Resource (over 45 years of age). **GO TO STEP 4.**
■	**Category C:** Not a Historical Resource or Not Age Eligible (under 45 years of age). **GO TO STEP 6.**

STEP 4: PROPOSED WORK CHECKLIST

TO BE COMPLETED BY PROJECT PLANNER

Check all that apply to the project.	
☐	1. **Change of use and new construction.** Tenant improvements not included.
☐	2. **Regular maintenance or repair** to correct or repair deterioration, decay, or damage to building.
☐	3. **Window replacement** that meets the Department's *Window Replacement Standards*. Does not include storefront window alterations.
☐	4. **Garage work.** A new opening that meets the *Guidelines for Adding Garages and Curb Cuts*, and/or replacement of a garage door in an existing opening that meets the Residential Design Guidelines.
☐	5. **Deck, terrace construction, or fences** not visible from any immediately adjacent public right-of-way.
☐	6. **Mechanical equipment installation** that is not visible from any immediately adjacent public right-of-way.
☐	7. **Dormer installation** that meets the requirements for exemption from public notification under *Zoning Administrator Bulletin No. 3: Dormer Windows*.
☐	8. **Addition(s)** that are not visible from any immediately adjacent public right-of-way for 150 feet in each direction; does not extend vertically beyond the floor level of the top story of the structure or is only a single story in height; does not have a footprint that is more than 50% larger than that of the original building; and does not cause the removal of architectural significant roofing features.
Note: Project Planner must check box below before proceeding.	
☐	Project is not listed. **GO TO STEP 5.**
☐	Project **does not conform** to the scopes of work. **GO TO STEP 5**.
☐	Project involves **four or more** work descriptions. **GO TO STEP 5.**
☐	Project involves **less than four** work descriptions. **GO TO STEP 6.**

STEP 5: CEQA IMPACTS - ADVANCED HISTORICAL REVIEW

TO BE COMPLETED BY PROJECT PLANNER

Check all that apply to the project.	
☐	1. Project involves a **known historical resource (CEQA Category A)** as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
☐	2. **Interior alterations to publicly accessible spaces**.
☐	3. **Window replacement** of original/historic windows that are not "in-kind" but are consistent with existing historic character.
☐	4. **Façade/storefront alterations** that do not remove, alter, or obscure character-defining features.
☐	5. **Raising the building** in a manner that does not remove, alter, or obscure character-defining features.
☐	6. **Restoration** based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.
☐	7. **Addition(s)**, including mechanical equipment that are minimally visible from a public right-of-way and meet the *Secretary of the Interior's Standards for Rehabilitation*.

☐	8. **Other work consistent** with the *Secretary of the Interior Standards for the Treatment of Historic Properties* (*specify or add comments*):
☐	9. **Other work** that would not materially impair a historic district (specify or add comments): *(Requires approval by Senior Preservation Planner/Preservation Coordinator)*
☐	10. **Reclassification of property status**. *(Requires approval by Senior Preservation Planner/Preservation* ☐ Reclassify to Category A ☐ Reclassify to Category C a. Per HRER or PTR dated *(attach HRER or PTR)* b. Other *(specify)*:
Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST sign below.	
☐	**Project can proceed with categorical exemption review**. The project has been reviewed by the Preservation Planner and can proceed with categorical exemption review. **GO TO STEP 6.**
Comments (*optional*):	
Preservation Planner Signature:	

STEP 6: CATEGORICAL EXEMPTION DETERMINATION

TO BE COMPLETED BY PROJECT PLANNER

■	**No further environmental review is required. The project is categorically exempt under CEQA. There are no unusual circumstances that would result in a reasonable possibility of a significant effect.**	
	Project Approval Action: Planning Commission Hearing	**Signature:** Ashley Lindsay 11/16/2020
	Once signed or stamped and dated, this document constitutes a categorical exemption pursuant to CEQA Guidelines and Chapter 31of the Administrative Code. In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the approval action. Please note that other approval actions may be required for the project. Please contact the assigned planner for these approvals.	

STEP 7: MODIFICATION OF A CEQA EXEMPT PROJECT

TO BE COMPLETED BY PROJECT PLANNER

In accordance with Chapter 31 of the San Francisco Administrative Code, when a California Environmental Quality Act (CEQA) exempt project changes after the Approval Action and requires a subsequent approval, the Environmental Review Officer (or his or her designee) must determine whether the proposed change constitutes a substantial modification of that project. This checklist shall be used to determine whether the proposed changes to the approved project would constitute a "substantial modification" and, therefore, be subject to additional environmental review pursuant to CEQA.

MODIFIED PROJECT DESCRIPTION

Modified Project Description:

DETERMINATION IF PROJECT CONSTITUTES SUBSTANTIAL MODIFICATION

Compared to the approved project, would the modified project:	
☐	Result in expansion of the building envelope, as defined in the Planning Code;
☐	Result in the change of use that would require public notice under Planning Code Sections 311 or 312;
☐	Result in demolition as defined under Planning Code Section 317 or 19005(f)?
☐	Is any information being presented that was not known and could not have been known at the time of the original determination, that shows the originally approved project may no longer qualify for the exemption?
If at least one of the above boxes is checked, further environmental review is required.	

DETERMINATION OF NO SUBSTANTIAL MODIFICATION

☐	The proposed modification would not result in any of the above changes.

If this box is checked, the proposed modifications are categorically exempt under CEQA, in accordance with prior project approval and no additional environmental review is required. This determination shall be posted on the Planning Department website and office and mailed to the applicant, City approving entities, and anyone requesting written notice. In accordance with Chapter 31, Sec 31.08j of the San Francisco Administrative Code, an appeal of this determination can be filed within 10 days of posting of this determination.

Planner Name:	**Date:**

SAN FRANCISCO
PLANNING DEPARTMENT

1650 Mission St.
Suite 400
San Francisco,
CA 94103-2479

Reception:
415.558.6378

Fax:
415.558.6409

Planning
Information:
415.558.6377

Land Use Information*

PROJECT ADDRESS: PARCEL 4991/066
RECORD NO.: 2018-009545CUA

	EXISTING	PROPOSED	NET NEW
GROSS SQUARE FOOTAGE (GSF)			
Parking GSF			
Residential GSF			
Retail/Commercial GSF			
Office GSF			
Industrial/PDR GSF *Production, Distribution, & Repair*			
Medical GSF			
Visitor GSF			
CIE GSF			
Usable Open Space			
Public Open Space			
Other (Public Right-of-Way)	689,600	0	689,600
TOTAL GSF	689,600	0	689,600
	EXISTING	NET NEW	**TOTALS**
PROJECT FEATURES (Units or Amounts)			
Dwelling Units - Affordable			
Dwelling Units - Market Rate			
Dwelling Units - Total			
Hotel Rooms			
Number of Buildings			
Number of Stories			
Parking Spaces			
Loading Spaces			
Bicycle Spaces			
Car Share Spaces			
Other ( )			

AT&T MOBILITY 2018-009545CUA
CONTEXTUAL PHOTOS

VIEW OF TOWER / EQUIPMENT LOCATION ALONG EXECUTIVE PARKWAY

VIEW OF TOWER / EQUIPMENT LOCATION ALONG EXECUTIVE PARKWAY

VIEW OF TOWER / EQUIPMENT LOCATION ALONG EXECUTIVE PARKWAY

VIEW OF CALTRANS ROW ALONG EXECUTIVE PARKWAY

VIEW OF CALTRANS ROW ALONG EXECUTIVE PARKWAY

PROPOSED EQUIPMENT LOCATION ALONG EXECUTIVE PARKWAY

PROPOSED EQUIPMENT LOCATION ALONG EXECUTIVE PARKWAY

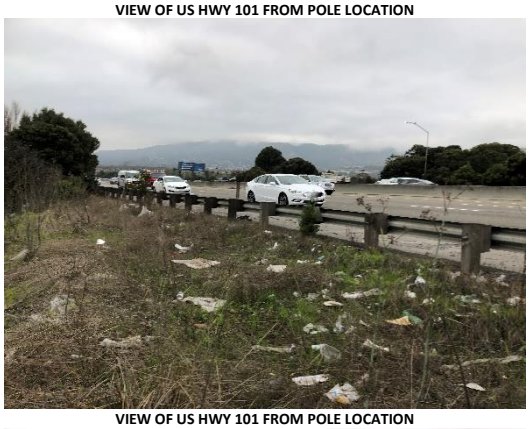
VIEW OF US HWY 101 FROM POLE LOCATION

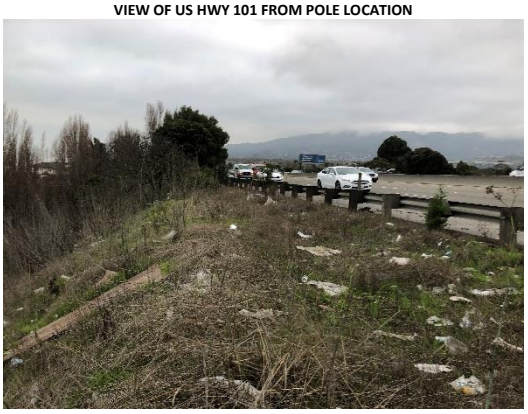
AT&T MOBILITY 2018-009545CUA
CONTEXTUAL PHOTOS

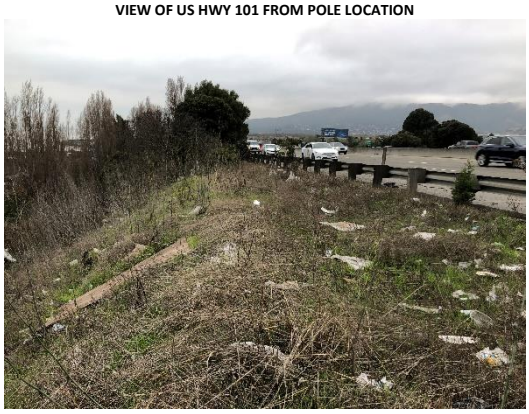

VIEW OF US HWY 101 FROM POLE LOCATION

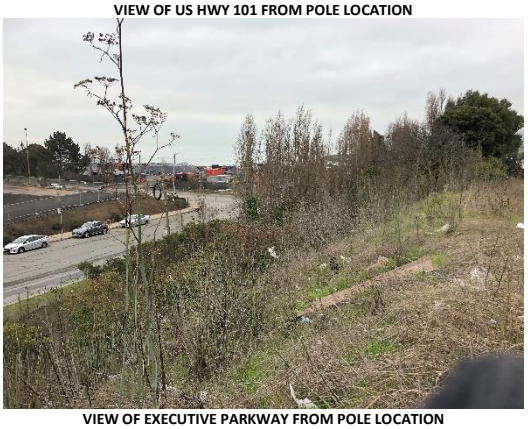

VIEW OF US HWY 101 FROM POLE LOCATION

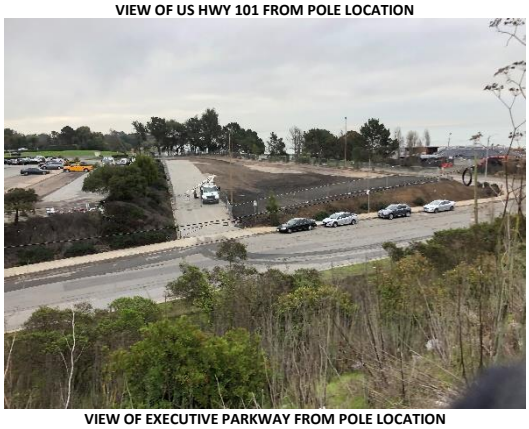

VIEW OF US HWY 101 FROM POLE LOCATION


VIEW OF US HWY 101 FROM POLE LOCATION


VIEW OF US HWY 101 FROM POLE LOCATION


VIEW OF US HWY 101 FROM POLE LOCATION


VIEW OF EXECUTIVE PARKWAY FROM POLE LOCATION


VIEW OF EXECUTIVE PARKWAY FROM POLE LOCATION

AT&T MOBILITY 2018-009545CUA
CONTEXTUAL PHOTOS

VIEW OF EXECUTIVE PARKWAY FROM POLE LOCATION

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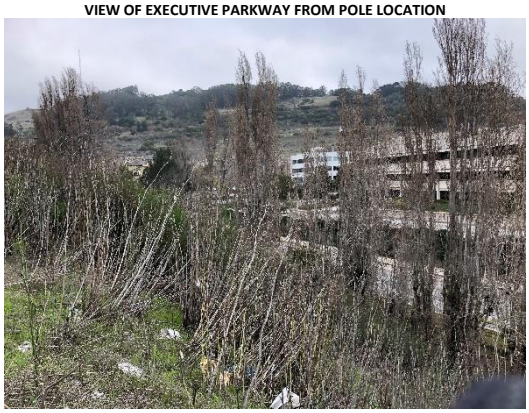
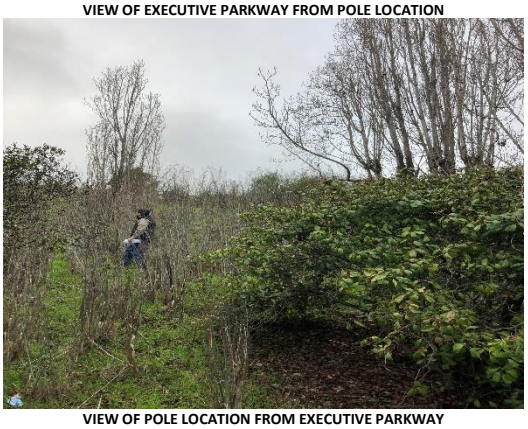


VIEW OF EXECUTIVE PARKWAY FROM POLE LOCATION

AT&T MOBILITY 2018-009545CUA
CONTEXTUAL PHOTOS

VIEW OF EXECUTIVE PARKWAY FROM POLE LOCATION

VIEW OF POLE LOCATION FROM EXECUTIVE PARKWAY

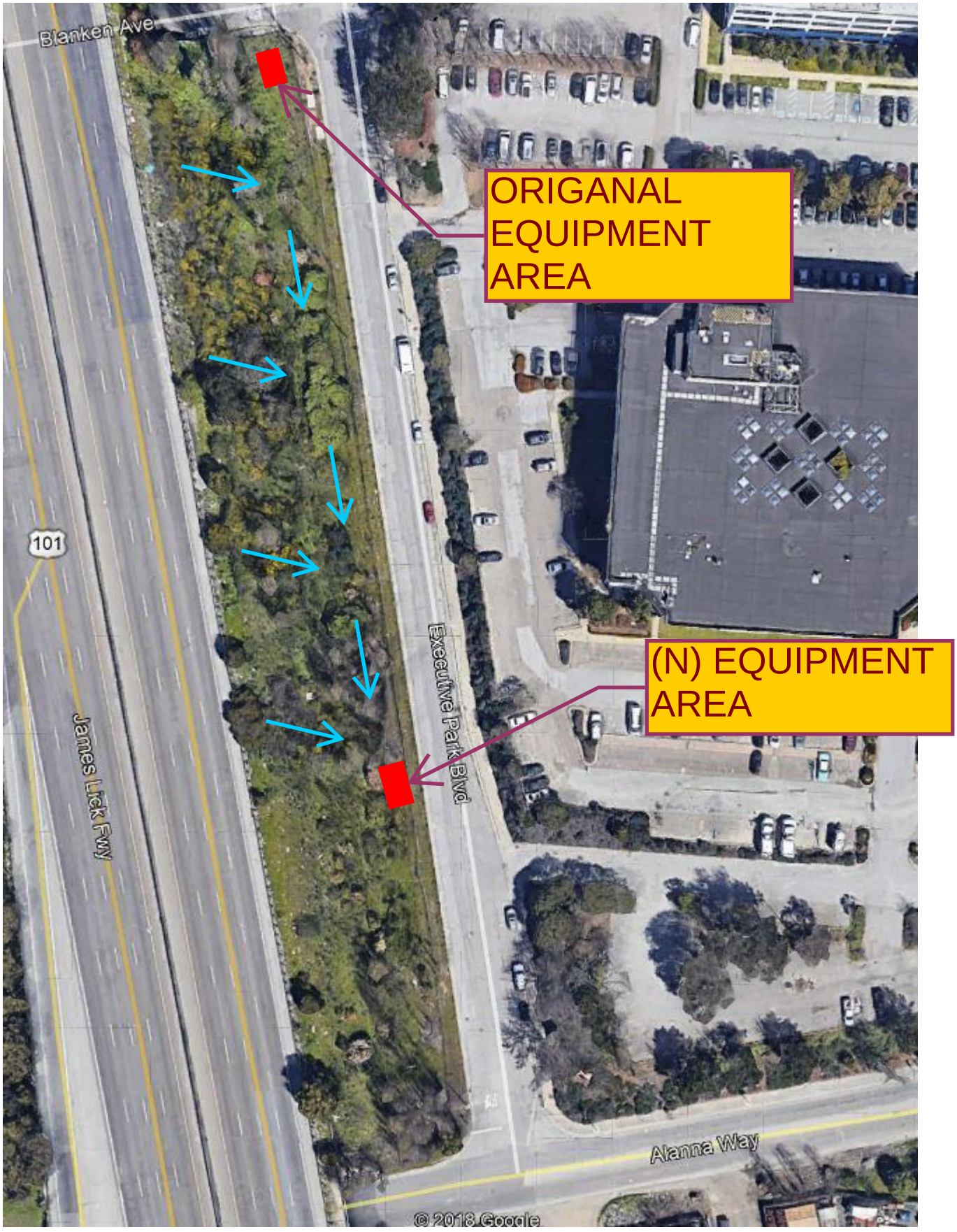


VIEW OF POLE LOCATION FROM EXECUTIVE PARKWAY

	EXISTING	PROPOSED	NET NEW
LAND USE - RESIDENTIAL			
Studio Units			
One Bedroom Units			
Two Bedroom Units			
Three Bedroom (or +) Units			
Group Housing - Rooms			
Group Housing - Beds			
SRO Units			
Micro Units			
Accessory Dwelling Units			

*This Land Use Table includes only information related to the installation of a wireless telecommunications facility use. This table does not include information about the entire building.

→ = DIRECTION OF DRAINAGE




3-D Eucalyptus Tree Simulation
Actual Eucalyptus MonoTree
Advanced 3d Tree Simulation
How often does a fully installed mono-tree look exactly like its photosim? With Chameleon Engineering's Advanced 3D Tree Simulation Technology, it can. Our tree simulations are created from computer generated models built to the exact specifications of the tower being proposed.
CHAMELEON ENGINEERING
The Best is Hard to Find
The images created by Chameleon for photo-sim purposes represent precisely what the final tree will look like - virtually down to the last leaf. Instead of submitting photos of other trees that may or may not look like what will end up at your site, using our 3d modeling capabilities can ensure Planners that - with Chameleon Engineering - what you see IS what you get.

AT&T Community Meeting
Proposed Site: Caltrans ROW near Blanken and Executive
June 18, 2018

NAME	ADDRESS	PHONE	EMAIL
Teddy Rusli	101 Seal Cove	408-893-4030	teddy_rusli@yahoo.com
MARTIN BOHLEN	545 LATHROP AVE	404-731-3215	MARTINBOHLEN@SHAW.CA

Summary of Discussion from CUP Meeting
Caltrans ROW near Blanken and Executive

Meeting Date: Monday, June 18, 2018
Meeting Time: 6:00pm – 7:30pm
Meeting Address: Korean First Presbyterian Church of San Francisco
Project Address: 333 Tunnel Avenue, San Francisco, CA 94134
Project Representatives:

- Boe Hayward, Lighthouse Public Affairs
- Michael Caniglia, AT&T Mobility
- Misako Hill, Zoning Specialist, J5 Infrastructure Partners
- Raj Mather, Hammett & Edison
- Luis Cuadra, BergDavis Public Affairs

Summary

AT&T Mobility held a community meeting on Monday, June 18, 2018 from 6:00pm – 7:30pm to share its plans with the community to install a new wireless facility at Caltrans ROW Near Blanken and Executive Blvd. Two residents attended the meeting.

AT&T commenced the meeting explaining the need for the proposed facility, reviewing the design and discussing the planning process and expected timeline. The topics of discussion included, design, site selection and technology. Residents primary concerns were site selection and exposure to EME.

Below is a recap of questions from community members and answers from the project team.

Design/Site Selection

Question #1: What is the purpose of the site?
Answer: The purpose of the site is to increase coverage and capacity for AT&T customers and to replace the decommissioned site at the Russia House

Question #2: Why did you chose this location?
Answer #2: We look at locations that meet our placement requirements. Also, this is the only place that Caltrans would allow AT&T to lease. Note: Misako Hill will follow up with Caltrans to ascertain if a location further south of the proposed site is feasible.

Questions #3: Are there other wireless facilities in this area?

Answer #3: Yes, beside the Russia House there are also facilities located off of the Highway 101 exit after Tunnel Street, the U-Haul Station off of Highway 101 and east of Candlestick Park.

Question #4: Have you considered placing your location at the Recology site?
Answer #4: Yes, we were unable to execute a lease.

Technology

Question #5: Do the antennas support all type of services? Can you change the facility from 4G to 5G?
Answer #5: Yes, the antennas support all types of service, including 4G and 5G. However, we would have to go through a similar public process notifying residents of our plans.

Timeline/Process

Question #6: How long does the entire process take?
Answer #6: From this meeting until installation it can take up to two years.

Question #7: Will we receive updates?
Answer #7: Notification of a planning commission hearing will be posted on the property and residents within 300 feet of the property will receive notification in the mail. Note: Misako Hill provided her contact information to the two community members.

EMF

There was considerable conversation concerning RF exposure, safety standards and measurements. AT&T informed meeting attendees, if requested, they would send a third-party engineer to measure RF levels before and after the installation of the proposed antennas.

San Francisco Planning

1650 MISSION STREET, #400
SAN FRANCISCO, CA 94103
WWW.SFPLANNING.ORG

CONDITIONAL USE AUTHORIZATION FOR WIRELESS TELECOMMUNICATIONS FACILITIES

INFORMATIONAL AND SUPPLEMENTAL CHECKLIST PACKET

ATTENTION: A Project Application must be completed and/or attached prior to submitting this Supplemental Application. See the Project Application for instructions.

Wireless Telecommunication Services (WTS) Facilities subject to the WTS Guidelines and this checklist include antennas which both receive and transmit radio signals, telecommunications relay stations, or other similar structures which transmit voice, video or data.

This checklist applied to projects located in a zoning district where a WTS facility is conditionally permitted, and the proposal is a new WTS facility, or consists of increasing the number f antennas for an existing WTS facility. To verify zoning district please use the San Francisco Property Information Map.

The Planning Department will make every effort to improve the aesthetic impact of existing sites whenever possible. Project Review for individual sites is strongly recommended.

For more information, please refer to the Planning Department's Wireless Telecommunications Services (WTS) Facilities Siting Guidelines document which can be found on our web site www.sf-planning.org/wirelessforms

For questions, you can call 415.558.6377, email pic@sfgov.org or visit the Planning Information Center (PIC) at 1660 Mission Street, First Floor, San Francisco, where planners are available to assist you.

Español: Si desea ayuda sobre cómo llenar esta solicitud en español, por favor llame al 415.575.9010. Tenga en cuenta que el Departamento de Planificación requerirá al menos un día hábil para responder

中文：如果您希望獲得使用中文填寫這份申請表的幫助，請致電415.575.9010**。請注意，規劃部門需要至少一個工作日來回應。**

Tagalog: Kung gusto mo ng tulong sa pagkumpleto ng application na ito sa Filipino, paki tawagan ang 415.575.9120. Paki tandaan na mangangailangan ang Planning Department ng hindi kukulangin sa isang araw na pantrabaho para makasagot.

Applications for Conditional Use Authorizations for WTS Facilities will be deemed incomplete unless:

1. The application requirements listed herein are fulfilled;
2. There are no Building, Fire, Health, Housing, or Planning Code violations at the Project Site;
3. Any existing abandoned, inactive or un-permitted antennas/dishes and associated elements are either removed (per a building permit to remove), or clearly identified for removal within the proposed Project scope;
4. A community meeting has been held and a sign-in sheet and write-up are provided (see appendix E and appendix A);
5. Project Implementation Reports (periodic monitoring reports for radio-frequency emissions) are up-to-date, per the Department of Public Health, for the Project Sponsor's (wireless carrier) existing WTS facilities;

6. Any existing WTS facilities at the applicant's (property owner) project site are in substantial conformance with previous approvals;
7. An environmental evaluation application, required submittal fees and documentation are provided for any freestanding WTS facilities (e.g. water tower) or any facility scope that triggers a "yes" on the Environmental Evaluation application form starting on Page 7 (except Items 1, 2, 4b, 5, 8, and 9); and
8. A digital copy is included (or materials can be emailed to CPC.wireless@sfgov.org in a zip file).

PLANNING APPLICATION RECORD NUMBER

San Francisco Planning

CONDITIONAL USE AUTHORIZATION FOR WIRELESS TELECOMMUNICATIONS FACILITIES

SUPPLEMENTAL CHECKLIST

Property Information

Project Address: Unaddressed Caltrans Public ROW Block/Lot(s): 4991/066

Project Information

If the Project Sponsor believes the Project Site qualifies as a Collocation (based on the existence of a Micro or Macro WTS facility at the Project Site) place a "Y" here:___. Any existing on-site WTS facilities shall be in substantial conformance with previous approvals, or the application will be deemed incomplete. *Note: for the separate Location Preference requirement (see Alternative Site Analysis item below), the WTS Facility Siting Guidelines (2003 Supplement, Item 5) classifies a proposed WTS facility as a Preference 2 co-location, if the Project Site features an existing "Macro" WTS facility that was approved pursuant to the WTS Facility Siting Guidelines. Micro (Accessory Use) WTS facilities would not be eligible for Location Preference 2.*

A	**Five-Year Facilities Plan**	The Five-Year Plan must be updated biannually on or before April 1st and October 1st of each year or as required by the Zoning Administrator. In each update service providers must note the changes from the previous submittal on a spreadsheet submitted to the Department electronically. A Five-Year Plan is required only if an updated plan has not been submitted.	✓
B	**Service Area Definition**	Using coverage maps, identify the geographic service area for the subject installation; describe the distance(s) between the same carrier's wireless sites; describe how this service area fits into and is necessary for the company's service network; and identify any potential site consolidation opportunities.	✓
C	**Coverage & Capacity Data Evaluation**	An independent evaluation of maps, data, and conclusions about service coverage and capacity submitted by the wireless service provider to a professional engineer, licensed by the State of California and selected from a list provided by the Planning Department; wet stamped and signed.	✓
D	**Alternative Site Analysis**	Identify the Location Preference the proposed facility meets using Section 8.1 of the WTS Facilities Siting Guidelines. Project Sponsors shall pursue the most preferential location feasible. In addition, if the proposed site is not a preferred location (Preference 1 thru 4), provide an alternative site analysis and describe: (a) what publicly-used building, co-location site or other Preferred Location Sites are located within the geographic service area; (b) what good faith efforts and measures were taken to secure these more preferred location (Preference 1 thru 4); (c) why such efforts were unsuccessful; and (d) how and why the proposed site is essential to meet service demands for the geographic service area and the Applicant's citywide network. Pursuant to Planning Commission Resolution No. 16539, Co-location sites must have a facility approved pursuant to the WTS Guidelines. "Micro" sites approved as Accessory Use Determinations, or Macro sites installed prior to the Guidelines, are not eligible for co-location status.	✓
E	**500 Foot Community Outreach Meeting Summary & Sign-in Sheet**	An affidavit providing a summary of the community outreach meeting, a sign-in sheet, and copy of the mailed notification envelope and letter. Notify property owners and occupants within 500 feet. See Appendix A (Guidelines and Best Practices for Community Meetings)	✓

F	**Radio-Frequency (RF) Emissions Report and Approval from DPH**	A radio-frequency emissions report (with a copy of the report and project plans forwarded directly to DPH) showing the total number of watts per installation and the total number of watts for all installations on the site; the number (including the number of on-site antennas or dishes, if any) and types of WTS within 100 feet of the proposed site with estimated cumulative emissions at the project site; a wet stamp of a licensed professional engineer; and a signed copy of DPH review and approval. See DPH Guidelines for RF Emissions Reports.	✓
G	**Section 106 Review**	Declaration of intent to comply. A Section 106 evaluation is required for all new WTS facilities proposed on any structure 45 years of age and older, within 250 feet of an eligible historic district, or a significant alteration to an existing site. Complying with Section 106 of the National Historic Preservation Act (NHPA) is a statutory obligation that is separate and distinct from complying with the National Environmental Policy Act (NEPA). For more information, please visit the California Office of Historic Preservation web site.	✓
H	**Contextual Photographs**	Photographs of the surrounding buildings within 100 feet of the project site showing the facades and heights of nearby buildings. Also provide site photos, if applicable, of: a) any existing on-site WTS facilities; b) interior or exterior areas where equipment installation is proposed; and c) all building facades, stairwells, and lightwells where any alterations are proposed (e.g. cable trays and generator plugs); and d) rooftop areas (if rooftop-mounted equipment and/or antennas are proposed). Photos will be utilized to evaluate neighborhood compatibility, conformance of existing WTS facilities with prior approvals, and compliance with any applicable required rear yard area and usable open space requirements.	✓
I	**Photo-simulations**	Two copies of photographs with existing conditions and two copies of photo-simulations with proposed conditions. Provide the date from when the photos were taken, or the revision date, if applicable. Include all facility elements that may be visible within the photo simulation; including but not limited to barricades or fences, cabling, cable trays, electrical meters, generator plugs, GPS antennas, ladders, equipment area signage, and weatherheads. Unless unique circumstances dictate otherwise, photo simulations should be taken from pedestrian level along surrounding sidewalks, public parks/plazas.	✓
J	**Plans**	Site Map identifying the subject parcel, the zoning district for the subject parcel and adjacent parcels, and Height and Bulk designations for the subject block. Full-size architectural plans with dimensions clearly labeled, in feet wih information outlined in section III of the BPA-type forms submittal form, of: the building height; any rooftop penthouse height; parapet wall height; any existing and proposed WTS antenna/equipment heights; equipment specifications; setback (in feet) of antennas/screening from nearest roof edges; diameter of vent pipes (if any); location (and heights) of antennas/screening and support equipment such as proposed access doors, barricades, cable trays, fences, fuel lines, generators, generator plugs, ladders, new curb cuts, tree removal locations, weatherheads and a survey. In addition, Project Plans shall provide sufficient information to determine compliance with required rear yard area (Planning Code Section 134) and usable open space (Planning Code Section 135) requirements.	✓
K	**Cumulative Effects**	Identify the location of the Project Sponsor's antennas/dishes and back-up facilities per building; number and location of other telecommunication facilities on the property; include the following data for each facility: a) Height of all existing and proposed WTS facilities on the property, shown in relation to the height limit for the District and measured from sidewalk grade; b) Dimensions of each existing and proposed antenna/dish and back-up equipment on the property; c) Power rating for all existing and proposed back-up equipment subject to the Application; d) Preferred method of attachment of proposed antennas/dishes (roof, wall mounted, freestanding) with plot or roof plan along with detailed installation plans with a description for screening and/or visual integration into the building's architecture.	✓

L	**Other Information**	Provide a shadow study (e.g. shadows cast on City parks public plazas, per Planning Code Section 295) application, and/or variance applications (e.g. rear yard areas), if applicable. Submit an application for a Certificate of Appropriateness (Article 10 of Planning Code) or Permit to Alter (Article 11), if applicable. Most WTS facilities that comply with Historic Preservation standards can be approved via an Administrative Certificate of Appropriateness (ACOA), or Minor Permit to Alter (MPTA). No upfront fee is required, however a time and materials charge would apply. Please consult with cpcwireless@sfgov.org. Planning Department staff reserves the right to request additional information (e.g. noise studies) to determine neighborhood compatibility.	☐

**WTS facilities that meet any of the following would require a Conditional Use Authorization (CUA): 1) In a Conditionally Permitted zoning district (unless is qualifies as Accessory Use also referred to as a "Micro" though LOD process); 2) if taller than 25 feet above roof, grade or height limit (depending on site); 3) if within 1,000 feet of an "R" District and includes either an (unscreened and visible from off-site) parabolic antenna with a diameter in excess of three meters or an (unscreened) composite diameter of antennae in excess of six meters; 3) if an unscreened (view from adjacent streets or other public areas) facility in the Waterfront 2 or 3 Special Use Districts and 4) others as idenified in SF Planning code. The CUA requirement does not typically apply to indoor Distributed Antenna Systems ("iDAS") solely intended to provide indoor mobile coverage.*

Also see references to ACOAs in the Historic Preservation Section of Wireless Planning Advisory Bulletin #3 | Best Practices for Micro WTS Facilities. The ACOA process is similar for Macro WTS Facilities. Permits to Alter (or MPTAs) only apply to Article 11 buildings/districts, which are limited to certain Downtown areas; where WTS facilities are typically Principally Permitted.

APPLICANT'S AFFIDAVIT

Under penalty of perjury the following declarations are made:

a) The undersigned is the owner or authorized agent of the owner of this property.

b) The information presented is true and correct to the best of my knowledge.

c) Other information or applications may be required.

Signature	Name (Printed)
Misako Hill	Misako Hill

Relationship to Project (i.e. Owner, Architect, etc.)	Phone	Email
Project Manager/AT&T Agent	415-533-2540	mhill@J5IP.com

APPLICANT'S SITE VISIT CONSENT FORM

I herby authorize City and County of San Francisco Planning staff to conduct a site visit of this property, making all portions of the interior and exterior accessible.

Signature	Name (Printed)
Misako Hill	Misako Hill

Date
7/10/2018

For Department Use Only

Application received by Planning Department:

By: _____ Date: _____

AT&T Mobility • Proposed Base Station (Site No. CCL04382)
Intersection of Alanna Way & Executive Park Blvd • San Francisco, California
FA No. 13397984, USID No. 176568

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate the base station (Site No. CCL04382) proposed to be located near the intersection of Alanna Way and Executive Park Blvd in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted an 11-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such facilities with prevailing safety standards. The acceptable limits set by the FCC for exposures of unlimited duration are:

Wireless Service Band	Transmit Frequency	"Uncontrolled" Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm^2	5.0 mW/cm^2
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

Checklist

Reference has been made to information provided by AT&T, including zoning drawings by Borges Architectural Group, Inc., dated May 10, 2019. It should be noted that the calculation results in this Statement include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operations.

1. *The location, identity, and total number of all operational radiating antennas installed at this site.*

There are reported no wireless base stations installed at the site.

2. *List all radiating antennas located within 100 feet of the site that could contribute to the cumulative radio frequency energy at this location.*

There are reported no other WTS facilities within 100 feet of the site, although antennas for use by Sprint are located above the roof of the office building at 5 Thomas Mellon Circle, about 200 feet to the northeast.

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3. *Provide a narrative description of the proposed work for this project.*

AT&T proposes to install nine antennas. This is consistent with the scope of work described in the drawings for transmitting elements.

4. *Provide an inventory of the make and model of antennas or transmitting equipment being installed or removed.*

AT&T proposes to install nine Quintel Model QS4458-5 directional panel antennas on a new pole, configured to resemble a tall tree, to be sited about 300 feet northwest of the intersection of Alanna Way and Executive Park Blvd, adjacent to Highway 101. The nine antennas would employ up to 16° downtilt, would be mounted at an effective height of about 68 feet above ground, and would be oriented in groups of three toward 50°T, 220°T, and 320°T.

5. *Describe the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level. This description may be based on field measurements or calculations.*

Because there are no antennas at the site presently, existing RF levels at ground and at buildings near the site are presumed to be well below the applicable public exposure limit.

6. *Provide the maximum effective radiated power per sector for the proposed installation. The power should be reported in watts and reported both as a total and broken down by frequency band.*

The maximum effective radiated power proposed by AT&T in any direction is 16,750 watts, representing simultaneous operation at 3,360 watts for WCS, 4,820 watts for AWS, 3,840 watts for PCS, 1,370 watts for cellular, and 3,360 watts for 700 MHz service.

7. *Describe the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area.*

The maximum calculated level at any nearby building from the proposed AT&T operation is 19% of the public exposure limit; this occurs at the office building at 5 Thomas Mellon Circle. Cumulative levels on the roof of that building may exceed the FCC limits, due to the Sprint operation; the AT&T proposal would not affect that condition.

8. *Report the estimated cumulative radio frequency fields for the proposed site at ground level.*

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.16 mW/cm^2, which is 25% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be well below the applicable public limit.

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9. *Provide the maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas.*

The three-dimensional perimeters of RF levels equal to the public and occupational exposure limits are calculated to extend up to 86 and 36 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this does not reach any publicly accessible areas.

10. *Provide a description of whether or not the public has access to the antennas. Describe any existing or proposed warning signs, barricades, barriers, rooftop striping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards.*

Due to their mounting location and height, the AT&T antennas would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that AT&T will, as an FCC licensee, take adequate steps to ensure that its employees or contractors receive appropriate training and comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

11. *Statement of authorship and qualification.*

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2021. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by AT&T Mobility near the intersection of Alana Way and Executive Park Blvd in San Francisco, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations.

William F. Hammett, P.E.
707/996-5200

June 11, 2019

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San Francisco City and County
Department of Public Health

Environmental Health Branch

London Breed, *Mayor*
Grant Colfax, MD, *Director of Health*

Stephanie K.J. Cushing, MSPH, CHMM, REHS
Director of Environmental Health

Review of Cellular Antenna Site Proposals

Project Sponsor : *AT&T Wireless* **Planner:** *Ashley Lindsay*

RF Engineer Consultant: *Hammett & Edison* **Phone Number:** *(707) 996-5200*

Project Address/Location: *Intersection of Alanna Way & Executive Park Blvd.*

Site ID: *3365* **SiteNo.:** *CCL04382* **Report Dated:** *6/11/2019*

The following information is required to be provided before approval of this project can be made. These information requirements are established in the San Francisco Planning Department Wireless Telecommunications Services Facility Sitting Guidelines dated August 1996.

In order to facilitate quicker approval of this project, it is recommended that the project sponsor review this document before submitting the proposal to ensure that all requirements are included.

X 1. The location, identity and total number of all operational radiating antennas installed at this site was provided. (WTS-FSG, Section 10.4.1, Section 11, 2b)

Number of Existing Antennas: **0**

X 2. A list of all radiating antennas located within 100 feet of the site which could contribute to the cumulative radio frequency energy at this location was provided. (WTS-FSG, Section 10.5.2)

◉ **Yes** ○ **No**

X 3. A narrative description of the proposed work for this project was provided. The description should be consistent with scope of work for the final installation drawings. (WTS-FSG, Section 10)

◉ **Yes** ○ **No**

X 4. An inventory of the make and model of antennas or transmitting equipment being installed or removed was provided. The antenna inventory included the proposed installation height above the nearest walking/working surface, the height above ground level and the orientations of the antennas. (WTS-FSG, Section 10.5.2)

◉ **Yes** ○ **No**

X 5. A description of the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level was provided. A description of any assumptions made when doing the calculations was also provided. (WTS-FSG, Section 10.4.1a, Section 10.4.1c, Section 10.5)

◉ **Yes** ○ **No**

X 6. The maximum effective radiated power per sector for the proposed installation was provided along with the frequency bands used by the antennas. (WTS-FSG, Section 10.1.2, Section 10.5.1)

Maximum Effective Radiated Power: **16750** Watts

X 7. Based on the antenna orientation, the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area was provided. (WTS-FSG, Section 10.4, Section 10.5.1)

Maximum percent of applicable FCC public standard at the nearest building or structure: **19** %

Distance to this nearby building or structure: **203** feet

X 8. The estimated maximum cumulative radio frequency fields for the proposed site at ground level. (WTS-FSG, Section 10.5)

Maximum RF Exposure: **0.16** mW/cm^2 Maximum RF Exposure Percent: **25** %

X 9. The maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas was provided. Any potential walking/working surfaces exceeding regulatory standards were identified. (WTS-FSG, Section 10.9.2)

☑ Public Exclusion Area — Public Exclusion In Feet: **86**

☑ Occupational Exclusion Area — Occupational Exclusion In Feet: **36**

X 10. A description of whether or not the public has access to the antennas was provided. A description was also provided of any existing or proposed warning signs, barricades, barriers, rooftop stripping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. All signs will be provided in English, Spanish and Chinese. (WTS-FSG, Section 9.5, Section 10.9.2)

◉ **Yes** ○ **No**

X 11. Statement regarding the engineer who produced the report and their qualifications was provided. The engineer is licensed in the State of California. (WTS-FSG, Section 11,8)

◉ **Yes** ○ **No**

X **Approved**. Based on the information provided the following staff believes that the project proposal will comply with the current Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC standard CFR47 1.1310 **Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.**

Comments:

There are 0 antennas existing operated by AT&T Wireless installed on the roof top of the building at 5 Thomas Mellon Cir. Existing RF levels at ground level were around 1% of the FCC public exposure limit. No other antennas were observed within 100 feet of this site. AT&T Wireless proposes to install 9 new antennas. The antennas are mounted at a height of 68 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.16 mW/sq cm., which is 25 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 86 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Workers should not have access to within 36 feet of the front of the antennas while they are in operation. Due to their mounting location and height, the AT&T antennas would not be accessible to unauthorized persons.

___ **Not Approved**, additional information required.

___ **Not Approved**, does not comply with Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC Standard

1 Hours spent reviewing

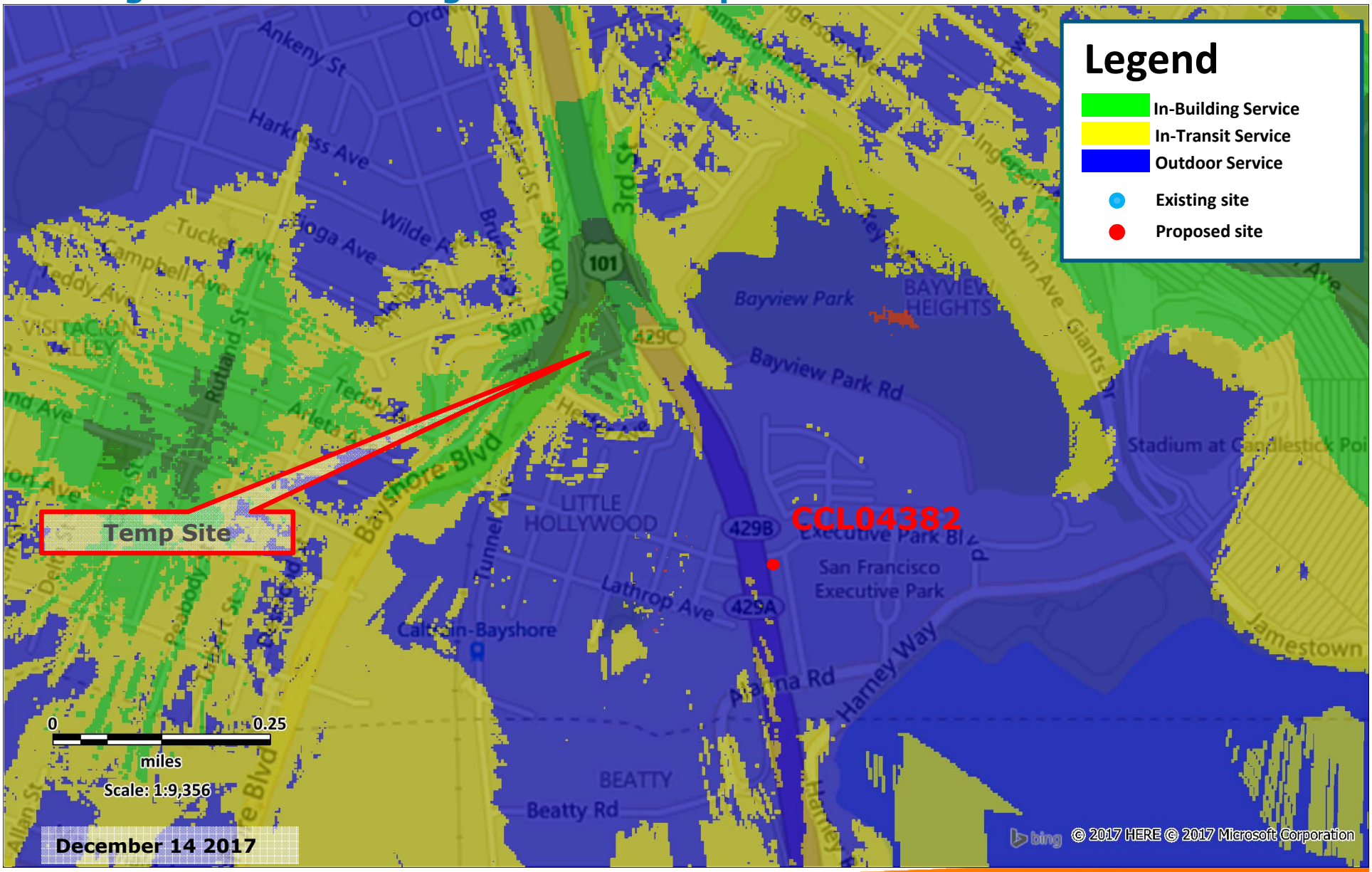
Charges to Project Sponsor (in addition to previous charges, to be received at time of receipt by Sponsor)

Dated: 6/28/2019

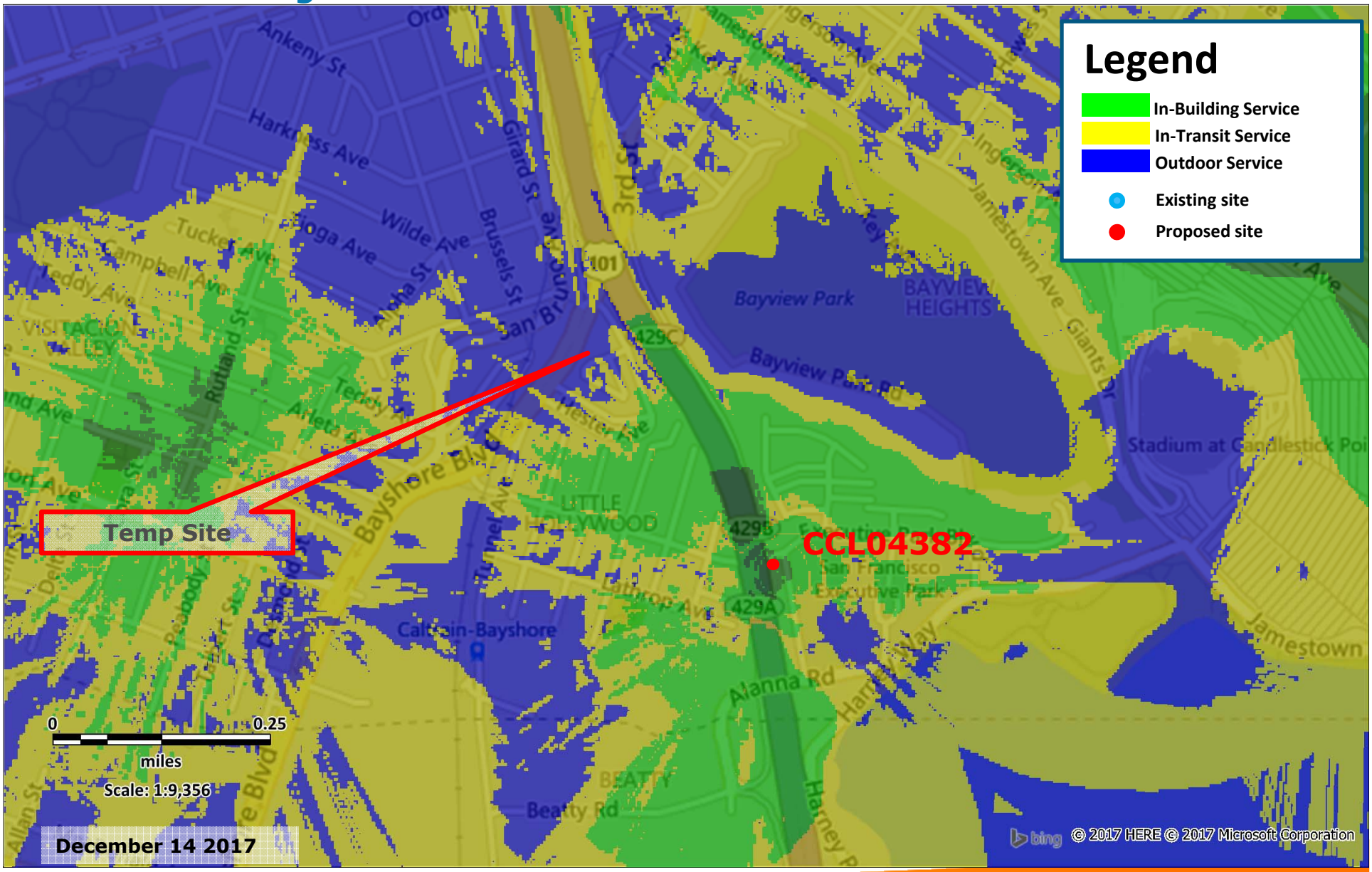
Signed: 

Arthur Duque
Environmental Health Management Section
San Francisco Dept. of Public Health
1390 Market St., Suite 210,
San Francisco, CA. 94102
(415) 252-3966

Existing LTE 1900 Coverage with the Temp Site



LTE 1900 Coverage with the Permanent Site



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
BROADCAST & WIRELESS

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BY E-MAIL MHILL@J5IP.COM

February 26, 2018

Ms. Misako Hill
J5 Infrastructure Partners, LLC
2030 Main Street, Suite 200
Irvine, California 92614-8223

Dear Misako:

As requested, we have conducted the review required by the City of San Francisco of the coverage maps that AT&T Mobility will submit as part of its application package for the proposed base station to be located at Blanken Avenue and Executive Park Boulevard (Site No. CCU4382). This is to fulfill the submittal requirements for Planning Department review.

Executive Summary

We concur with the maps provided by AT&T. The maps provided to show the before and after conditions accurately represent the carrier's present and post-installation coverage.

AT&T proposes to install nine CCI directional panel antennas – three Model HPA-45R-BUU-H4 and six Model HPA-33R-BUU-H4 – on a 78-foot steel pole, configured to resemble a eucalyptus tree, to be sited on the hillside between Executive Park Boulevard and the northbound lanes of US Highway 101, just south of the Blanken Avenue overpass. The antennas would employ up to 6° downtilt, would be mounted at an effective height of about 68 feet above ground, and would be oriented in groups of three toward 60°T and 320°T (Model HPA-33R) and toward 210°T (Model HPA-45R). The maximum effective radiated power proposed by AT&T in any direction would be 10,840 watts, representing simultaneous operation at 4,540 watts for WCS, 4,170 watts for PCS, 1,000 watts for cellular, and 1,130 watts for 700 MHz service.

AT&T provided for review two coverage maps, attached for reference. The maps show AT&T's LTE 1900 MHz coverage in the area before and after the proposed base station is operational. Both the before and after maps show three levels of coverage, which AT&T colors and defines as follows:

Green	In-building service
Yellow	In-transit service
Blue	Outdoor service

We undertook a two-step process in our review. As a first step, we obtained information from AT&T on the software and the service thresholds that were used to generate its coverage maps. This carrier uses commercially available software to produce the maps. The service thresholds that AT&T uses are in line with industry standards, similar to the thresholds used by other wireless service providers.

As a second step, we conducted our own drive test, using an Ascom TEMS Pocket network diagnostic tool with built-in GPS, to measure the actual AT&T LTE 1900 MHz signal strength in the vicinity of the proposed site. Our fieldwork was conducted on January 28, 2018, between 3:20 PM and 6:10 PM, along a measurement route selected to cover all the streets within the map area that AT&T had indicated would receive improved service.

Based on the measurement data, we agree with the coverage shown in the AT&T "Existing LTE 1900 Coverage with the Temp Site" map. The map submitted to show the coverage after the proposed base station is operational ("LTE 1900 Coverage with the Permanent Site") was reportedly prepared on the same basis as the map of the existing conditions and so is expected to accurately illustrate the improvements in coverage.

We appreciate the opportunity to be of service. Please let us know if any questions arise on this matter.

Sincerely yours,

William F. Hammett, P.E.

lw

Enclosures