



# EXECUTIVE SUMMARY

## CONDITIONAL USE AUTHORIZATION

**HEARING DATE: SEPTEMBER 23, 2021**

**Continued From: SEPTEMBER 9, 2021**

**Record No.:** 2021-004901CUA  
**Project Address:** 1111 California Street  
**Zoning:** RM-4 (Residential – Mixed, High Density) Zoning District  
65-A Height and Bulk District  
**Block/Lot:** 0253/020  
**Project Sponsor:** Eric Lentz  
5001 Executive Pkwy  
San Ramon, CA 94583  
**Property Owner:** California Masonic Memorial Temple  
1111 California Street  
San Francisco, CA 94108  
**Staff Contact:** Kalyani Agnihotri – (628) 652-7454  
[kalyani.agnihotri@sfgov.org](mailto:kalyani.agnihotri@sfgov.org)

**Recommendation:** Approval with Conditions

### Project Description

The Project includes the installation of a new AT&T Mobility Macro Wireless Telecommunication Services Facility at the rooftop of the existing three-story auditorium building, consisting of six (6) new antennas and ancillary equipment as part of the AT&T Mobility Telecommunications Network. Antennas and ancillary equipment will be screened within one (1) FRP enclosure.

### Required Commission Action

In order for the Project to proceed, the Commission must grant a Conditional Use Authorization, pursuant to Planning Code Sections 209.2 and 303(c) to allow the installation of a Macro Wireless Transmission Services (WTS) facility within the RM-4 Zoning District.

## Issues and Other Considerations

- **Public Comment & Outreach.**

- **Support/Opposition:** The Department has not received 1 letter of support and 25 letters of opposition for the Project.
  - The opposition to the Project is centered on radio frequency, design and visual impact of the installation.
- **Outreach:** The Sponsor has hosted one meeting within the community, on April 29, 2021.

## 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 Mission Area Plan 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 F – Radio Frequency Report  
Exhibit G – Department of Public Health Approval  
Exhibit H – Coverage Maps  
Exhibit I – Independent Evaluation



# PLANNING COMMISSION DRAFT MOTION

**HEARING DATE: SEPTEMBER 2, 2021**

**Continued From: SEPTEMBER 9, 2021**

**Record No.:** 2021-004901CUA  
**Project Address:** 1111 California Street  
**Zoning:** RM-4 (Residential – Mixed, High Density) Zoning District  
65-A Height and Bulk District  
**Block/Lot:** 0253/020  
**Project Sponsor:** Eric Lentz  
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ADOPTING FINDINGS RELATING TO A CONDITIONAL USE AUTHORIZATION PURSUANT TO PLANNING CODE SECTIONS 209.2 and 303(c), TO INSTALL A NEW AT&T MOBILITY MACRO WIRELESS TELECOMMUNICATION SERVICES FACILITY AT THE ROOFTOP OF THE EXISTING THREE-STORY AUDITORIUM BUILDING, CONSISTING OF SIX (6) NEW ANTENNAS AND ANCILLARY EQUIPMENT AS PART OF THE AT&T MOBILITY TELECOMMUNICATIONS NETWORK. ANTENNAS AND ANCILLARY EQUIPMENT WILL BE SCREENED WITHIN ONE (1) FRP ENCLOSURE. THE SUBJECT PROPERTY IS LOCATED AT 1111 CALIFORNIA STREET, LOT 020 IN ASSESSOR'S BLOCK 0253, WITHIN THE RM-4 (RESIDENTIAL – MIXED, HIGH DENSITY) ZONING DISTRICT AND 65-A HEIGHT AND BULK DISTRICT, AND ADOPTING FINDINGS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT.

## PREAMBLE

On May 11, 2021, Eric Lentz on behalf of AT&T Mobility (hereinafter "Project Sponsor") filed Application No. 2021-004901CUA (hereinafter "Application") with the Planning Department (hereinafter "Department") to install a new AT&T Mobility Macro Wireless Telecommunications facility (hereinafter "Project") at 1111 California Street, Block 0253, Lot 0202 (hereinafter "Project Site").

On September 9, 2021 the San Francisco Planning Commission (hereinafter "Commission") conducted a duly noticed public hearing at a regularly scheduled meeting on Conditional Use Authorization Application No. 2021-004901CUA and continued the hearing to September 23, 2021

On September 23, 2021, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on Conditional Use Authorization Application No. 2021-004901CUA.

On September 15, 2021 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.

The Planning Department Commission Secretary is the custodian of records; the File for Record No. 2021-004901CUA 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. 2021-004901CUA, 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 the installation of a new AT&T Mobility macro wireless Telecommunication Services facility at the rooftop of the existing three-story auditorium building, consisting of six (6) new antennas and ancillary equipment. Antennas and ancillary equipment will be screened within one (1) FRP enclosure.
- 3. Site Description and Present Use.** The Project is located on a lot which has approximately 275 feet of frontage along California Street, 200 feet of frontage on Taylor Street and 25 feet of frontage along Pine Street. The Project Site contains an existing three-story auditorium building.
- 4. Surrounding Properties and Neighborhood.** The Project Site is located within the RM-4 Zoning District. The immediate context is mixed in character with residential, commercial, and institutional uses. The immediate neighborhood includes the Grace Cathedral to the north across California Street, multi-story residential development to the west, a multi-story commercial property to the east across Taylor Street, and two-to-three story residential buildings to the south on Pine Street. Other zoning districts in the vicinity of the project site include: P (Public), RM-3 (Residential – Mixed, Medium Density), and RC-4 (Residential Commercial, High Density).
- 5. Public Outreach and Comments.** The Project Sponsor held a community meeting on April 29, 2021 at 6:00 PM. The topics of discussion included design, site selection, shadow, noise, and radio frequency. The Department has received 1 letter of support and 25 letters of opposition regarding the proposed project. Much of the opposition expressed concerns about radio frequency, design, screening, and location of the installation in proximity to the adjacent residential development.
- 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 where 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 is at a Location Preference 1 Site (Publicly Used Structures) according to the WTS Facilities Siting Guidelines, making it a desired location. The Project Site is located in an RM-4 zoning district, would be a Limited Preference Site, making it less desired location. However, according to the Wireless Siting Guidelines, an applicant for publicly-used structures within individual NCDs, NC-1 and RM-4 Districts need not satisfy the justification conditions for use of Limited Preference Sites. The Project Site is an auditorium building and houses an existing micro wireless facility on the rooftop.
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 in the 3,520 watts for WCS, 5,040 watts for AWS, 4,510 watts for PCS, 2,120 watts for cellular, and 4,850 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, 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 transmitters at any nearby publicly accessible building or area would be 12% of the FCC public exposure limit.

There are 4 existing antennas operated by AT&T Wireless, Sprint, and T-Mobile installed on the rooftop of the building at 1111 California Street. Existing RF levels at the ground level were approximately 1% of the FCC public exposure limit. No other antennas were observed within 100 feet of this site. AT&T Wireless proposes to upgrade its transmitting equipment. No changes will happen to the current antenna configuration. The antennas are mounted at a height of 83 feet above the ground.

The estimated ambient RF field from the proposed AT&T Wireless transmitters at the ground level is calculated to be 0.0023 mW/sq cm., which is 0.4% of the FCC public exposure limit. The three-dimensional perimeter of RF levels equal to the public exposure limit extends 33 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 14 feet of the front of the antennas while they are in operation.

Due to its mounting location, requiring passage through a locked door to reach the roof, the AT&T antenna is not accessible to unauthorized persons. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access near the antenna, including employees and contractors of the wireless carriers and of the property owner. "Worker Notification Areas" shall be marked with a yellow paint stripe and that the boundary of two "Prohibited Access Areas" shall be marked with a red paint stripe on the main roof of the building, as shown in Figure 1 of the RF report, to identify the areas within which exposure levels are calculated to exceed the FCC public and occupational limits.

- 11. Coverage and Capacity Verification.** The maps, data, and conclusion provided by AT&T to demonstrate the need for outdoor and indoor coverage and capacity have been determined Hammett & Edison, 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.
- 13. Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the Planning Code in the following manner:
- A. **Use.** Per Planning Code Section 209.2, a Conditional Use Authorization is required for a macro WTS facility (Utility and Infrastructure Use).
- 14. 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:

- A. 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 at 1111 California Street is generally desirable and compatible with the surrounding neighborhood because the Project will not conflict with the existing uses of the property 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 ensure harmony with the existing neighborhood character and promote public safety.*

*There is an existing coverage gap in the AT&T Mobility wireless telecommunications network. A new facility is necessary to close the service coverage gap in the network area bordered by Sacramento Street to the north, Taylor Street to the east, California Street to the south, and Leavenworth Street to the west.*

*The Project is necessary in order to achieve sufficient indoor and outdoor 4G LTE 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.*

- B. 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 height and bulk of the existing building will remain the same and will not significantly alter the existing appearance or character of the project vicinity. The proposed work will not affect the building envelope or alter the use of the property.*

- (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 wireless telecommunications 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.*

- C. 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.*

- D. That the use as proposed would provide development that is in conformity with the purpose of the applicable Neighborhood Commercial District.

*The proposed project is consistent with the stated purposed of the RM-4 District in that the facility will be consistent with the existing scale and character of the area.*

- 15. 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 12.3

Ensure new housing is sustainable supported by the City's public infrastructure systems.

*The Project will improve AT&T's coverage and capacity within the Nob Hill 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.

*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.*

**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.

*The Site will be an integral part of a new wireless communications network that will enhance the City's diverse economic base.*

**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.

*The Project will benefit the City by enhancing the business climate through improved communication services for residents and workers.*

Visitor Trade

**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 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.

*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.*

**16. 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 does 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 contains a Category A historic resource building.*

*The facility will be screened from view by virtue of equipment placement on the rooftop. While the proposed FRP radomes are minimally visible from surrounding public rights-of-way (e.g. sidewalks along surrounding streets), the size, height, and setback of the screening structures will not significantly detract from views of the subject building.*

- 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.*

**17.** 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.

**18.** 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. 2021-004901CUA** subject to the following conditions attached hereto as “EXHIBIT A” in general conformance with plans on file, dated April 20, 2021, and stamped “EXHIBIT B”, which is incorporated herein by reference as though fully set forth.

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

**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 September 23, 2021.

Jonas P. Ionin  
Commission Secretary

AYES:

NAYS:

ABSENT:

RECUSE:

ADOPTED: September 23, 2021

## EXHIBIT A

### Authorization

This authorization is for a conditional use to allow a macro Wireless Telecommunications Facility (d.b.a. AT&T Mobility) located at 1111 California Street, Block 0253, Lot 020 pursuant to Planning Code Section(s) 209.2 and 303 (c) within the RM-4 Zoning District and a 65-A Height and Bulk District; in general conformance with plans, dated April 20, 2021, and stamped "EXHIBIT B" included in the docket for Record No. 2021-004901CUA and subject to conditions of approval reviewed and approved by the Commission on September 23, 2021 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 September 23, 2021 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](http://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](http://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](http://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](http://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](http://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 628.652.7454, [www.sfplanning.org](http://www.sfplanning.org)*

7. **Roof Mechanical Equipment.** Pursuant to Planning Code 141, the Project Sponsor shall submit a roof plan to the Planning Department prior to Planning approval of the building permit application. Rooftop mechanical equipment, if any is proposed as part of the Project, is required to be screened so as not to be visible from any point at or below the roof level of the subject building.

*For information about compliance, contact the Case Planner, Planning Department at 415-558-6378, [www.sfplanning.org](http://www.sfplanning.org)*

8. **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 628.652.7454, [www.sfplanning.org](http://www.sfplanning.org)*

9. **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.

*For information about compliance, contact the Case Planner, Planning Department at 628.652.7454, [www.sfplanning.org](http://www.sfplanning.org)*

## Monitoring - After Entitlement

**10. 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](http://www.sfplanning.org)*

**11. 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](http://www.sfplanning.org)

- 12. 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](http://www.sfplanning.org)*

- 13. 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](http://www.sfplanning.org)*

- 14. 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](http://www.sfdph.org)*

**15. 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 628.652.7454, [www.sfplanning.org](http://www.sfplanning.org)*

**16. 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.

*For information about compliance, contact Code Enforcement, Planning Department at 628.652.7463, [www.sfplanning.org](http://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](http://www.sfplanning.org)*

- 18. 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](http://www.sfdph.org)*

## Operation

- 19. 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](http://www.sfplanning.org)*

- 20. 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](http://www.sfplanning.org)*

- 21. 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](http://www.sfdph.org)*

- 22. 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](http://www.sfdph.org)

- 23. 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](http://www.sfplanning.org)*

- 24. 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: CCL01751**  
**PROJECT: 4TX4RX SOFTWARE RETROFIT, 5G NR 1DR-1,**  
**LTE 4C, LTE 5C, LTE 6C**  
**SITE NAME: CN5451**  
**USID #: 113784 FA #: 10101199**  
**PACE #: MRSFR068317, MRSFR068331, MRSFR068272,**  
**MRSFR068476, MRSFR068332 & MRSFR068327**  
**PTN #: 3701A0SX17, 3701A0SWN4, 3701A0SWN3,**  
**3701A0SWXP, 3701A0SWJF & 3701A0SWTP**  
**1111 CALIFORNIA STREET**  
**SAN FRANCISCO, CA 94109**

**ENGINEERING**

2019 CALIFORNIA BUILDING CODE  
 2019 CALIFORNIA TITLE 24  
 2019 CALIFORNIA FIRE CODE  
 2019 CALIFORNIA ENERGY CODE  
 2019 CALIFORNIA MECHANICAL CODE  
 TIA/EIA-222-G OR LATEST EDITION

**GENERAL NOTES**

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

**SITE INFORMATION**

PROPERTY OWNER: CALIFORNIA MASONIC MEMORIAL TEMPLE  
 ADDRESS: 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94103

SITE ADDRESS: 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109

APPLICANT: AT&T  
 ADDRESS: 5001 EXECUTIVE PKWY  
 SAN RAMON CA 94583

APPLICANT REPRESENTATIVE: SMARTLINK GROUP LLC  
 ADDRESS: 360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523

LATITUDE (NAD 83): 37° 47' 28.91" N  
 LONGITUDE (NAD 83): 122° 24' 46.29" W  
 LONGITUDE/LATITUDE TYPE: NAD 83  
 GROUND ELEVATION: ±285 FEET (NAVD88)  
 APN #: 0253-020  
 ZONING JURISDICTION: CITY OF SAN FRANCISCO  
 CURRENT ZONING: RM-4 (RESIDENTIAL-MIXED, HIGH DENSITY)  
 POWER COMPANY: PG&E  
 TELCO COMPANY: AT&T  
 PROPOSED USE: UNMANNED TELECOM FACILITY  
 LEASE AREA (SF): 74 S.F.  
 CONSTRUCTION TYPE: I-B

**PROJECT TEAM**

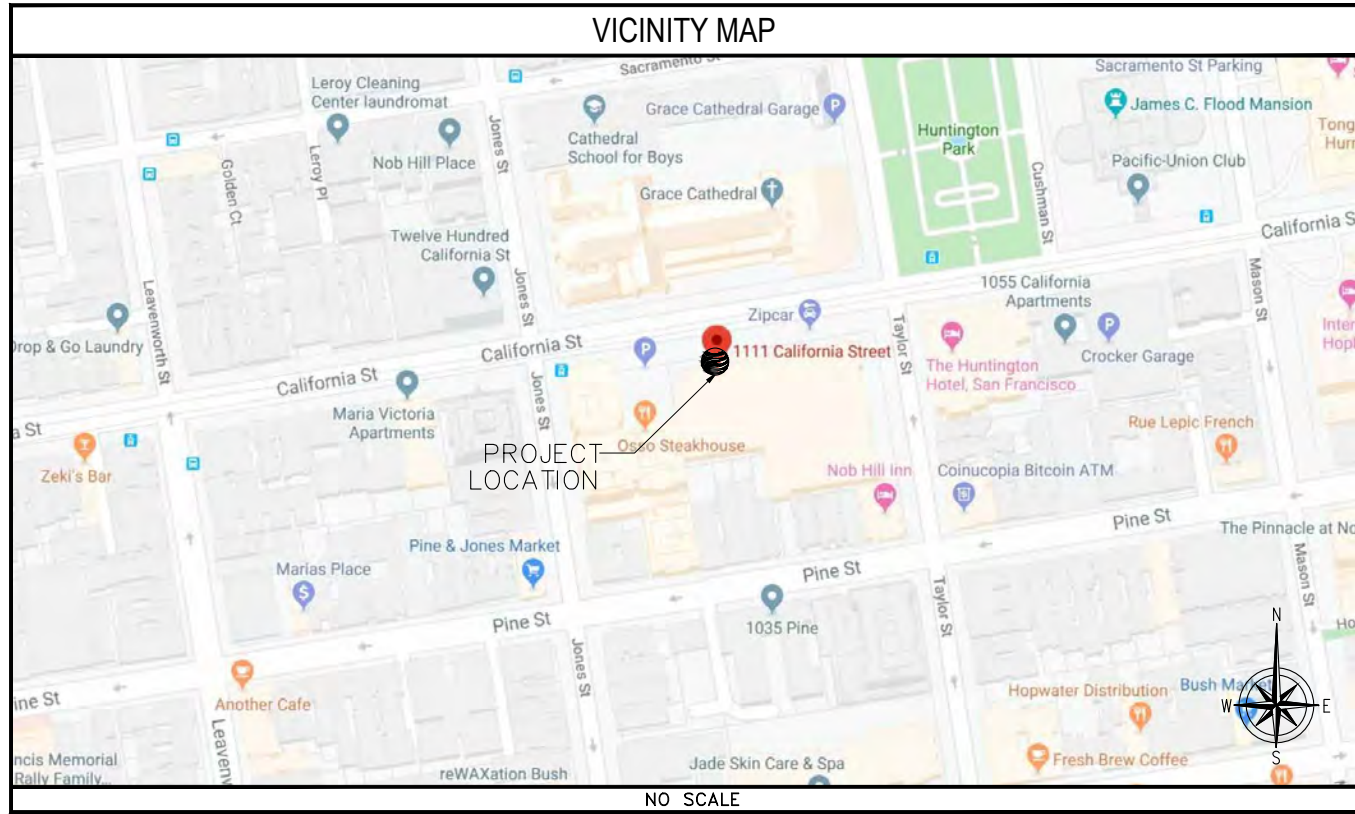
PROJECT MANAGER: AT&T  
 5001 EXECUTIVE PKWY  
 SAN RAMON, CA 94583  
 CONTACT: JERRY WORTH  
 jw5471@att.com

ENGINEER: INTELOCITY, LLC  
 1875 CORONADO AVE,  
 SIGNAL HILL, CALIFORNIA 90755  
 CONTACT: JOSUE ROMERO  
 PH: (714) 553-5316  
 josue.romero@intelocity.com

SITE ACQUISITION: SMARTLINK GROUP LLC  
 360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523  
 CONTACT: CHET ANDERSON  
 PHONE: (906) 370-2487  
 chet.anderson@smartlinkllc.com

ZONING: SMARTLINK GROUP LLC  
 360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523  
 CONTACT: CHET ANDERSON  
 PHONE: (906) 370-2487  
 chet.anderson@smartlinkllc.com

RF ENGINEER: AT&T  
 5001 EXECUTIVE PKWY  
 SAN RAMON, CA 94583  
 CONTACT: SAGAR BONDE  
 PHONE: (323) 457-5845  
 sb970r@att.com



**DRIVING DIRECTIONS**

DIRECTIONS FROM AT&T OFFICE: 5001 EXECUTIVE PKWY SAN RAMON CA 94583  
 HEAD SOUTHWEST, TURN RIGHT, TURN LEFT TOWARD EXECUTIVE PKWY, TURN RIGHT TOWARD EXECUTIVE PKWY, TURN LEFT ONTO CAMINO RAMON, USE THE LEFT 2 LANES TO TURN LEFT ONTO CROW CANYON RD, USE THE RIGHT 2 LANES TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO, CONTINUE ON I-680 N. DRIVE FROM CA-24 W AND I-80 W TO SAN FRANCISCO. TAKE EXIT 2C FROM I-80 W, MERGE ONTO I-680 N, USE THE RIGHT 2 LANES TO TAKE EXIT 46A FOR STATE ROUTE 24 TOWARD OAKLAND/LAFAYETTE, CONTINUE ONTO CA-24 W, KEEP LEFT AT THE FORK TO STAY ON CA-24 W, USE THE RIGHT 2 LANES TO TAKE EXIT 2B FOR INTERSTATE 580 W, USE THE LEFT LANE TO MERGE ONTO I-580 W, USE THE LEFT 3 LANES TO TAKE EXIT 19A TO MERGE ONTO I-80 W TOWARD SAN FRANCISCO TOLL ROAD, KEEP RIGHT AT THE FORK TO STAY ON I-80 W TOLL ROAD, USE THE RIGHT 2 LANES TO TAKE EXIT 2C TOWARD FREMONT ST/FOLSOM ST., USE THE LEFT 2 LANES TO TAKE THE RAMP ONTO FREMONT ST., CONTINUE ON FREMONT ST. TAKE PINE ST TO TAYLOR ST., MERGE ONTO FREMONT ST., CONTINUE ONTO FRONT ST., USE THE LEFT 2 LANES TO TURN LEFT ONTO PINE ST., TURN LEFT ONTO MASON ST., TURN RIGHT ONTO SUTTER ST., TURN RIGHT ONTO TAYLOR ST., ARRIVE AT 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109.

RFDS VER. # 1.00 12/04/2019 ID# 3553722

**CONSTRUCTION DRAWING**

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

**PROJECT DESCRIPTION**

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

ANTENNA LOCATION:

- REMOVE (1) EXISTING OMNI-CANISTER ANTENNA PER SECTOR (1) TOTAL
- REMOVE (1) EXISTING AT&T RRUS 11 B12 PER SECTOR (2) TOTAL
- REMOVE (1) EXISTING AT&T RRUS 12 B2 PER SECTOR (2) TOTAL
- RELOCATE (1) EXISTING AT&T RRUS 32 B30 PER SECTOR (2) TOTAL
- REMOVE (1) EXISTING AT&T TWIN DIPLEXERS PER SECTOR (2) TOTAL
- INSTALL NEW AT&T 8' FRP SCREEN WALL
- INSTALL (3) NEW AT&T NNH4-65A-R6H4 PER SECTOR (6) TOTAL
- INSTALL (1) NEW AT&T RRUS 4449 B5/B12 PER SECTOR (2) TOTAL
- INSTALL (1) NEW AT&T RRUS 8843 B2/B66A PER SECTOR (2) TOTAL
- INSTALL (1) NEW AT&T RRUS 4478 PER SECTOR (2) TOTAL
- INSTALL (1) NEW AT&T RRU E2 B29 PER SECTOR (2) TOTAL
- INSTALL (1) DC-9 SURGE SUPPRESSOR PER SECTOR (2) TOTAL
- INSTALL (2) DC POWER TRUNKS AT WALL
- INSTALL (3) DC POWER TRUNKS AT WALL
- INSTALL (1) FIBER TRUNKS PER SECTOR (2) TOTAL
- INSTALL (1) NEW AT&T CABLE TRAY
- INSTALL (16) NEW AT&T 1/2" COAX

EQUIPMENT LOCATION:

- REMOVE (1) EXISTING POWER PLANT
- REMOVE (1) EXISTING AT&T DUW 30 FROM (E) PURCELL
- REINSTALL (8) EXISTING BATTERIES IN NEW POWER PLANT
- INSTALL (1) NEW VERTIV OUTDOOR 512 DC POWER PLANT
- INSTALL (8) NEW AT&T RECTIFIERS
- INSTALL (4) NEW AT&T GS PYL12V185FT BATTERIES IN NEW POWER PLANT
- INSTALL (2) NEW DC12 SURGE SUPPRESSOR
- INSTALL (1) NEW AT&T 6630 IN EXISTING PURCELL CABINET
- INSTALL (1) NEW AT&T XMU IN EXISTING PURCELL CABINET

**DRAWING INDEX**

SHEET NO:		
1 OF 15	T-1	TITLE SHEET
2 OF 15	GN-1	GENERAL NOTES AND SITE SIGNAGE
3 OF 15	FD-1	FIRE DEPARTMENT CHECK LIST
4 OF 15	EME-1	EME REPORT
5 OF 15	PS-1	PHOTOSIMS
6 OF 15	A-1	SITE PLAN
7 OF 15	A-2	ENLARGED ROOF PLAN, EXISTING AND NEW EQUIPMENT LAYOUT
8 OF 15	A-3	EXISTING AND NEW ANTENNA LAYOUT
9 OF 15	A-4	ELEVATION
10 OF 15	A-5	ELEVATION
11 OF 15	D-1	DETAILS
12 OF 15	D-2	DETAILS
13 OF 15	D-3	DETAILS
14 OF 15	G-1	GROUNDING NOTES, PLANS AND DETAILS
15 OF 15	S-1	STRUCTURAL DETAILS

**DO NOT SCALE DRAWINGS**

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109



PLANS PREPARED BY:

**INTELOCITY**  
 DESIGN | BUILD | INNOVATE

1875 Coronado Ave  
 Signal Hill, CA 90755

A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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.

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

**GENERAL CONSTRUCTION NOTES**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
GENERAL CONTRACTOR – OVERLAND CONTRACTING INC. (B&V)  
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)  
OWNER – AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.

- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, ODOR, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DELETE THIS NOTE IF THE SITE WILL HAVE A GENERATOR)
- NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN. (REVISE THIS NOTE ACCORDING TO THE SITE CONFIGURATION)
- NO LANDSCAPING IS PROPOSED AT THIS SITE. (REVISE THIS NOTE ACCORDING TO THE SITE CONFIGURATION)



## NOTICE TO WORKERS

RADIO FREQUENCY ANTENNAS ON THIS ROOF. PLEASE EXERCISE CAUTION AROUND ANTENNAS AND OBEY POSTED SIGNS AND/OR MARKINGS. FOR ACCESS TO RESTRICTED AREAS OR FOR FURTHER INFORMATION, PLEASE CALL 1-800-832-6662 (SITE NUMBER: **CCL01751**)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

## AVISO A TRABAJADORES

EXISTEN ANTENAS DE RADIOFRECUENCIA EN ESTE TECHO. POR FAVOR USE PRECAUCION ALREDEDOR DE LAS ANTENAS Y OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS INFORMACION, LLAME AL TELEFONO 1-800-832-6662 (NUMERO DE SITIO: **CCL01751**)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.1310

## 工作人員注意

此屋宇房頂有射頻天線裝置  
在天線範圍四周務請小心,並遵照各已張貼之指示及/或標識行事  
如需進入禁區範圍或索取更多資料  
請致電 1-800-832-6662 此站區號: (CCL01751)

依據FCC條例第47 CFR1.1310 款執行

- NOTES:
- WARNING SIGN TO BE MOUNTED AT ANTENNA LOCATIONS.
  - SIGN SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS.
  - SIGNAGE SHALL BE CLEARLY LABELED IN A PHENOLIC LABEL WITH A WHITE BACKGROUND AND BLACK LETTERING, AND SHALL BE READABLE FROM AT LEAST (15) FEET FROM THE SIGN.
  - PROPOSED 12"x20" PLASTIC SIGN

MULTI-LANGUAGE SIGN

4

## EMERGENCY SHUT DOWN

FOR IMMEDIATE SHUT DOWN OF ALL RADIO FREQUENCY EMISSIONS OF THIS SITE,

1) CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.  
CONTACT PHONE NUMBER: 1-800-832-6662  
PRESS "9", THEN PRESS "1"  
SITE IDENTIFICATION NUMBER: CCL01751

2) DISCONNECT POWER AT MAIN SERVICE DISCONNECT:  
**EQUIPMENT AREA ON ROOFTOP**

3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:  
**EQUIPMENT AREA ON ROOFTOP**

CHANGING INFO:

1. SIGN SHALL BE PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERING.

2. CONTRACTOR TO PLACE SIGNS IN FOLLOWING LOCATIONS:  
a) CELL SITE EQUIPMENT ROOM DOOR  
b) BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT  
c) FCC ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL  
d) BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF AND/OR AT THE CELL SITE MAIN ELECTRICAL DISCONNECT


SIGN SHALL BE A PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERING.

- NOTE: SIGN TO BE PERMANENTLY MOUNTED AT THE FOLLOWING LOCATIONS;
- CELL SITE EQUIPMENT ROOM DOOR
  - BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT
  - FCC (FIRE CONTROL CENTER) ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL
  - BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF
  - THE CELL SITE MAIN ELECTRICAL DISCONNECT

EMERGENCY SHUT DOWN SIGN

1

## NOTICE



AT&T operates antennas at this site.  
Beyond This Point you are entering an area where radio frequency (RF) fields exceed the FCC Occupational Exposure Limits.

Follow safety guidelines for working in an RF environment.

Contact AT&T at 1-800-832-6662 and follow their instructions prior to performing any maintenance or repairs beyond this point.

Caution Sign 0487-AL-007 This is AT&T site CCL01751.

## INFORMATION

AT&T operates telecommunications antennas at this location. Remain at least 3 feet away from any antenna and obey all posted signs.  
Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna.  
Contact AT&T at 1-800-832-6662 prior to performing any maintenance or repairs near AT&T antennas. This is Site#\_CCL01751.  
Contact the management office if this door/batch/gate is found unlocked.

## INFORMATION

En esta propiedad se ubican antenas de telecomunicaciones operadas por AT&T. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos.  
Comuníquese con el propietario o los propietarios de las antenas antes de trabajar o construir a una distancia de menos de 3 pies de la antena.  
Comuníquese con AT&T 1-800-832-6662 antes de realizar cualquier mantenimiento o reparaciones cerca de la antena de AT&T.  
Esta es la estación base número CCL01751.  
Favor comunicarse con la oficina de la administración del edificio si esta puerta o compuerta se encuentra sin candado.

at&t

INFORMATION SIGNAGE

2

## CAUTION




AT&T operates antennas at this site.  
Beyond This Point you are entering an area where radio frequency (RF) fields exceed the FCC Occupational Exposure Limits.

Follow safety guidelines for working in an RF environment.

Contact AT&T at 1-800-832-6662 and follow their instructions prior to performing any maintenance or repairs beyond this point.

Caution Sign 0487-AL-007 This is AT&T site CCL01751.

## WARNING



AT&T operates antennas at this site.  
Beyond This Point you are entering an area where radio frequency (RF) fields exceed the FCC Occupational Exposure Limits.

Failure to follow safety guideline for working in an RF environment could result in serious injury.

Contact AT&T at 1-800-832-6662 options 9 and 3, and request assistance prior to proceeding beyond this point.

Warning Sign 04-24-120 This is AT&T site USD\_113784

CAUTION/WARNING SIGNAGE

3

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

PLANS PREPARED BY:

## INTELOCITY

DESIGN | BUILD | INNOVATE

1875 Coronado Ave  
Signal Hill, CA 90755

A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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.

SHEET TITLE  
**GENERAL NOTES AND SITE SIGNAGE**

SHEET NUMBER  
**GN-1**



CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
 SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523

PLANS PREPARED BY:



1875 Coronado Ave  
 Signal Hill, CA 90755

A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
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 TO ALTER THIS DOCUMENT.

SHEET TITLE  
**FIRE DEPARTMENT  
 CHECK LIST**

SHEET NUMBER

**F-1**

## 2.06 SUBMITTAL REQUIREMENTS FOR CELLULAR ANTENNA SITES (2019)

2.06 SUBMITTAL REQUIREMENTS FOR CELLULAR ANTENNA SITES (2019)

REFERENCE: 2019 SFBC, 2019 SFFC, 2019 SFMC AND FCC OET BULLETIN (97-01)

- I. SUBMITTAL REQUIREMENTS
- SEE SHEET T-1  A. PROVIDE A DESCRIPTION OF WORK ON THE PLANS.
- SEE SHEET A-1, A-2, A-3, A-4, A-5  B. PLANS SHALL INCLUDE PLAN VIEWS AND ELEVATIONS SHOWING ALL EQUIPMENT LOCATIONS AND CABLE RUNS.
- SEE SHEET A-3, D-1, D-2, D-3  C. PLANS SHALL INCLUDE ANTENNA MANUFACTURER SPECIFICATION SHEETS AND EQUIPMENT LIST ON A DRAWING.
- SEE SHEET EME-1  D. INCLUDE A COPY OF THE SIGNED AND STAMPED RF REPORT ON A DRAWING SHEET AS A REFERENCE TO IDENTIFY THE EXCLUSION AREA REQUIRED TO PREVENT OCCUPATIONAL EXPOSURES IN EXCESS OF THE FCC GUIDELINES (47CFR1.1310 AND FCC OET BULLETIN 65 EDITION 97-01).
- SEE SHEET EME-1  E. THE RF REPORT SHALL INDICATE WHETHER OR NOT THE SITE UNDER REVIEW IS A PART OF A MULTIPLE TRANSMITTER SITE AND SHALL SHOW COMPLIANCE WITH FCC 47CFR1.1307 (B) (3), AS AMENDED - ALL TRANSMITTERS SHALL NOT EXCEED 5% OF THE POWER DENSITY EXPOSURE LIMIT.
- SEE SHEET EME-1 AND SHEET A-2  F. DRAWINGS SHALL REFLECT THE STRIPED/EXCLUSION AREAS FOR WORKERS PER THE ABOVE RF REPORT WITH A MINIMUM RADIUS OF 1-FOOT.
- SEE SHEET EME-1  G. PLANS SHALL INCLUDE A QUANTITATIVE THREE-DIMENSIONAL IMAGE OF THE RF LEVELS FROM EACH ANTENNA LOCATED NEAR AN EGRESS POINT (E.G. PENTHOUSE STAIR; FIRE ESCAPE, ROOF WALKING PATHS; SKYLIGHTS, ETC.).
- SEE SHEET GN-1, EME-1 AND A-2  H. "NOTICE TO WORKERS" WARNING SIGNAGE, AS APPLICABLE PER THE ABOVE RF REPORT, SHALL BE PERMANENTLY MOUNTED AT THE STAIRWELL SIDE OF THE ROOF-ACCESS DOOR (ANSI C95.2-1982 (REFERENCE [3]) - YELLOW OR MORE DURABLE COLOR FOR OUTDOOR LONGEVITY)
- SEE SHEET EME-1 AND SHEET A-2  I. CAMOUFLAGED ANTENNAS SHALL HAVE 4-INCH X 4-INCH SIGNAGE PERMANENTLY MOUNTED TO THE EXTERIOR TO THE RF SCREEN AS PROVIDED BELOW. THE SIGN SHALL BE WEATHERPROOF WITH CONTRASTING BACKGROUND COLOR AND SHALL CONTAIN THE YELLOW TRIANGLE AROUND THE ANTENNA SYMBOL (ANSI C95.2-1982 (REFERENCE [3]) - YELLOW OR MORE DURABLE COLOR FOR OUTDOOR LONGEVITY). SIGNAGE LOCATION(S) AND DETAIL OF THE SIGN SHALL BE INCLUDED ON THE PLANS.
- N/A  J. CABLES/WIRING SHALL NOT BE ALLOWED IN EXIT ENCLOSURES, SMOKE-PROOF TOWERS, ELEVATOR SHAFTS, OR IN FRONT OF DRY STANDPIPES. 2016 SFFC 1023.5 AND 509.2
- SEE SHEET A-2  K. ANTENNAS SHALL NOT BE MOUNTED CLOSER THAN THE EXCLUSION ZONE PLUS 4- FEET FOR INSTALLATIONS NEAR FIRE ESCAPES, STAIR PENTHOUSE DOORS, EXTERIOR STANDPIPE OUTLETS, SKYLIGHTS, OR OTHER FIRE DEPARTMENT OPERATIONS CONSIDERATION.

SEE SHEET D-2  L. STATIONARY STORAGE BATTERY SYSTEMS SHALL COMPLY WITH 2019 CFC, SECTION 608.

SEE SHEET GN-1 AND SHEET A-2  M. THE FIRE DEPARTMENT MAY NEED TO SHUT DOWN THE POWER TO THE CELL SITE IN AN EMERGENCY SITUATION. IN ORDER TO REDUCE THE SITE OPERATOR'S POSSIBLE LOSS OF SERVICE, PERMANENT EMERGENCY SHUTDOWN PROCEDURE SIGNAGE SHALL BE PROVIDED AT THE EQUIPMENT ROOM ENTRANCE.

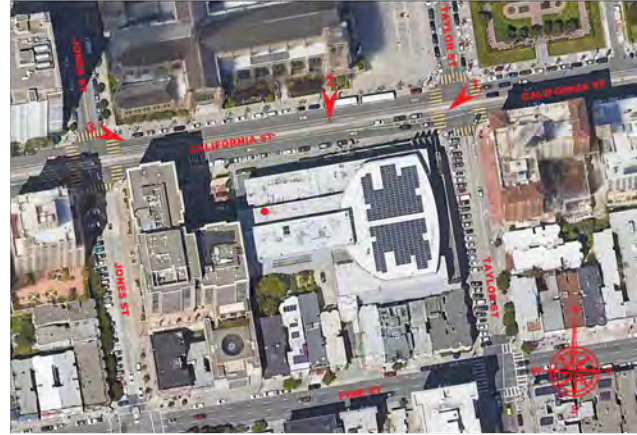
1. THE SIGN SHALL INCLUDE THE FOLLOWING:
  - a. EMERGENCY 24-HOUR/7 DAY A WEEK NETWORK OPERATIONS CENTER (NOC) / FIELD TECHNICIAN TELEPHONE NUMBER FOR RF SHUT-DOWN
  - b. CELL SITE IDENTIFICATION NUMBER
  - c. MAP SHOWING LOCATION OF ELECTRICAL MAIN SHUT-OFF (ELECTRICAL MAIN SHALL BE CLEARLY IDENTIFIED WITH A PERMANENT RED LABEL AND WHITE LETTERING).
  - d. MAP SHOWING LOCATION OF BATTERY CABINETS AND BREAKERS (CABINETS AND BREAKERS SHALL BE CLEARLY IDENTIFIED WITH A PERMANENT RED LABEL AND WHITE LETTERING).
  - e. ANY OTHER RELEVANT INFORMATION OR PROCEDURES AS REQUIRED FOR THE INDIVIDUAL CELLULAR SITE.
2. THE SIGN SHALL BE CLEARLY LABELED IN A PHENOLIC LABEL WITH A WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1-INCH HIGH WHITE LETTERING. MULTIPLE SIGNS MAY NEED TO BE INSTALLED BASED UPON THE CELLULAR SITE CONFIGURATION.
3. A COPY OF THE SIGNAGE SHALL BE INCLUDED ON A DRAWING SHEET. SEE ATTACHED SAMPLE.

### II. DRAWING NOTES

- A. SIGN SHALL BE A PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1-INCH HIGH WHITE LETTERING.
- B. CONTRACTOR TO PLACE SIGNS IN FOLLOWING LOCATIONS:
1. CELL SITE EQUIPMENT ROOM DOOR
  2. BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT
  3. FCC ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL
  4. BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF AND/OR AT THE CELL SITE MAIN ELECTRICAL DISCONNECT



**PHOTO SIMULATION**  
 ROOFTOP MOUNTED PANEL ANTENNAS AT:  
**1111 CALIFORNIA STREET**  
**SAN FRANCISCO, CA 94109**



**SHEET INDEX**

PAGE NO.	PAGE TITLE
1	COVER
2	VIEW 1
3	VIEW 2
4	VIEW 3

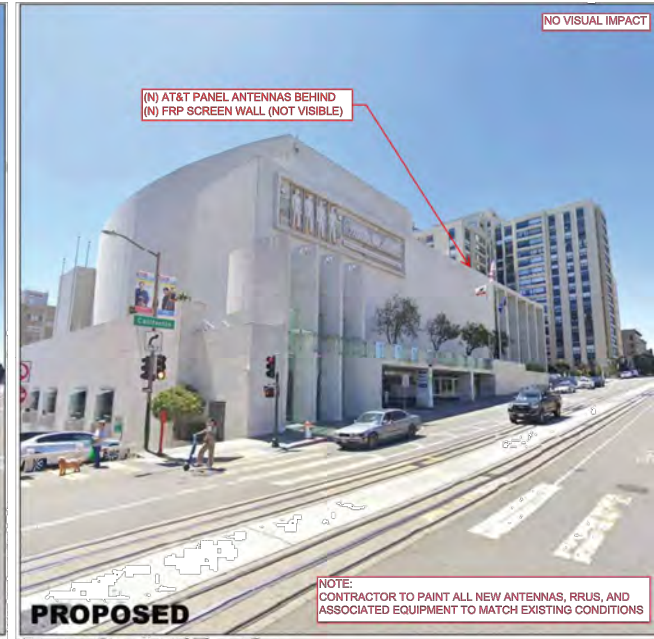
**PROJECT DESCRIPTION**

AT&T PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION

● LOCATION OF AT&T ANTENNAS



**EXISTING**



**PROPOSED**

NOTE:  
CONTRACTOR TO PAINT ALL NEW ANTENNAS, RRUS, AND ASSOCIATED EQUIPMENT TO MATCH EXISTING CONDITIONS

**VIEW 1 | LOOKING SOUTHWEST FROM CALIFORNIA ST**

01.11.21



1875 CORONADO AVE.  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

**PROJECT INFORMATION**

SITE NAME: CLAY ST & JONES ST  
 SITE NUMBER: CCL01751  
 SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109

PAGE 2

04.16.20



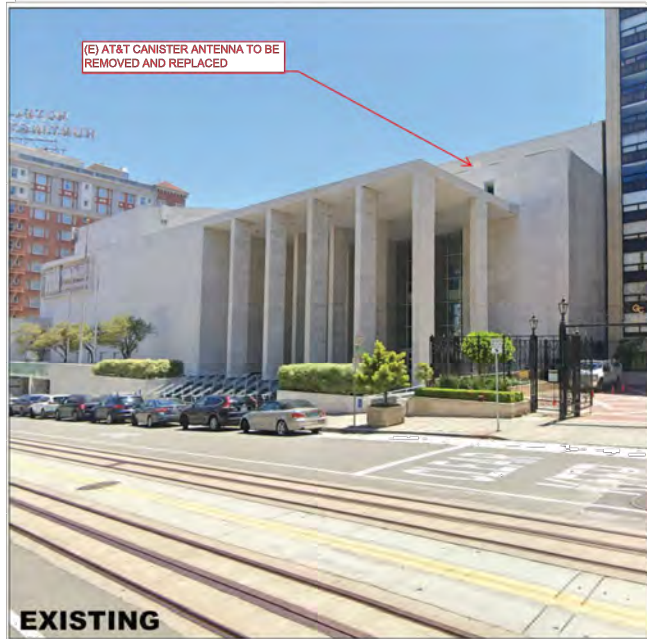
1875 CORONADO AVE.  
SIGNAL HILL, CA 90755  
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**PROJECT INFORMATION**

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**COVER**

PAGE 1



**EXISTING**



**PROPOSED**

NOTE:  
CONTRACTOR TO PAINT ALL NEW ANTENNAS, RRUS, AND ASSOCIATED EQUIPMENT TO MATCH EXISTING CONDITIONS

**VIEW 2 | LOOKING NORTH FROM CALIFORNIA ST**

01.11.21



1875 CORONADO AVE.  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

**PROJECT INFORMATION**

SITE NAME: CLAY ST & JONES ST  
 SITE NUMBER: CCL01751  
 SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109

PAGE 3



**EXISTING**



**PROPOSED**

NOTE:  
CONTRACTOR TO PAINT ALL NEW ANTENNAS, RRUS, AND ASSOCIATED EQUIPMENT TO MATCH EXISTING CONDITIONS

**VIEW 3 | LOOKING SOUTHEAST FROM JONES ST**

01.11.21



1875 CORONADO AVE.  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

**PROJECT INFORMATION**

SITE NAME: CLAY ST & JONES ST  
 SITE NUMBER: CCL01751  
 SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109

PAGE 4

CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
 SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523

PLANS PREPARED BY:



1875 Coronado Ave  
 Signal Hill, CA 90755

A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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SHEET TITLE  
**PHOTO SIMS**

SHEET NUMBER  
**PS-1**

NOTE:  
 INFORMATION CONTAINED WITHIN  
 DRAWINGS ARE BASED ON PROVIDED  
 INFORMATION AND ARE NOT THE  
 RESULT OF A FIELD SURVEY.

CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109



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360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523

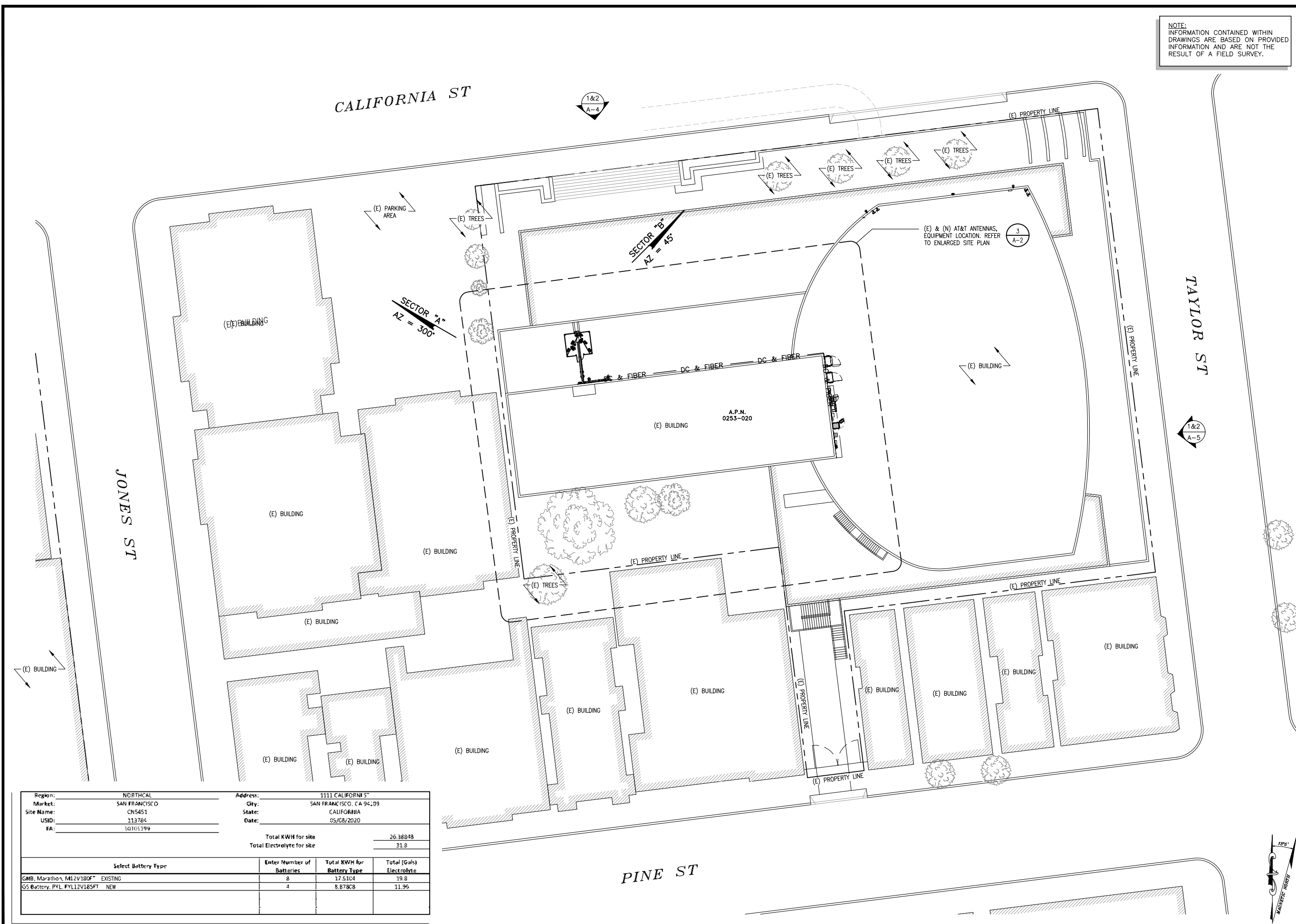
PLANS PREPARED BY:  
**INTELOCITY**  
 DESIGN | BUILD | INNOVATE  
 1875 Coronado Ave  
 Signal Hill, CA 90755  
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REV	DATE	DESCRIPTION	
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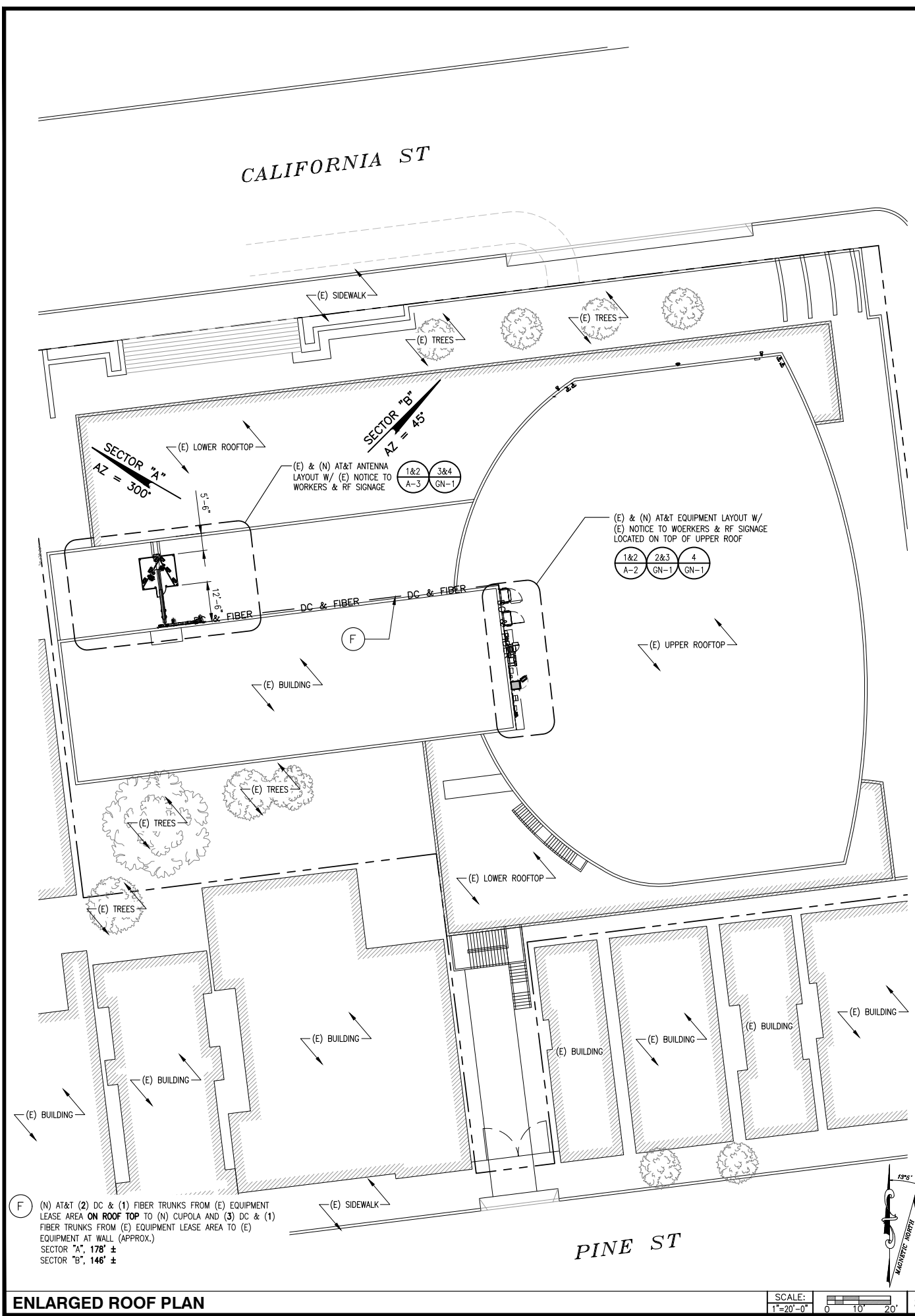
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SHEET TITLE  
**SITE PLAN**

SHEET NUMBER  
**A-1**



Region:	NORTHCAL	Address:	1111 CALIFORNIA ST
Market:	SAN FRANCISCO	City:	SAN FRANCISCO, CA 94109
Site Name:	CN5451	State:	CALIFORNIA
USID:	313784	Date:	05/08/2020
FA:	10101199		
Total KWH for site			26,36848
Total Electrolyte for site			31.8
Select Battery Type	Enter Number of Batteries	Total KWH for Battery Type	Total [Gals] Electrolyte
GMB, Marathon, M12V180F* EXISTING	8	17.5104	19.8
GS Battery, PVL, PVL12V185FT NEW	4	8.87808	11.95

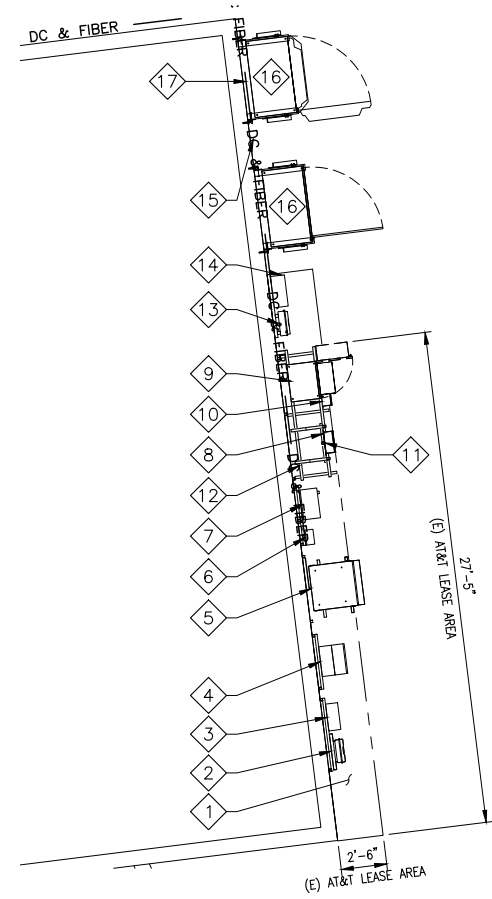


ENLARGED ROOF PLAN

SCALE: 1" = 20'-0" 3

EXISTING EQUIPMENT LAYOUT KEY NOTES

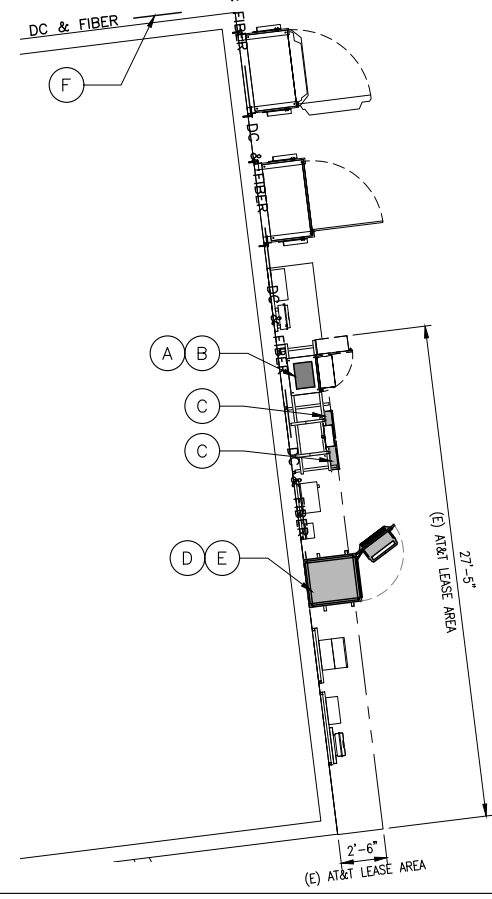
- 1 (E) AT&T 74 SQ. FT. LEASE AREA
- 2 (E) AT&T CIENA UNIT WITH (E) UAM BELOW
- 3 (E) AT&T TELCO BOX WITH (E) GUTTER BELOW
- 4 (E) AT&T PBC-02 BATTERY UNIT
- 5 (E) AT&T EMERSON 502 POWER PLANT TO BE REMOVED, (8) 180AH BATTERIES TO BE REINSTALLED (5 D-4)
- 6 (E) AT&T AWS SUB PANEL
- 7 (E) AT&T TELCO BOX WITH (E) NOTICE TO WORKERS & RF SIGNAGE
- 8 (E) AT&T ALPHA BETA LTE DC-6 SURGE SUPPRESSOR
- 9 (E) AT&T PURCELL CABINET W/ (1) 5216 AND (1) DUW 30 TO BE REMOVED (4 D-4)
- 10 (E) AT&T SPULL BOX FIBER AND POWER UNIT
- 11 (E) AT&T GPS ANTENNA
- 12 (E) AT&T STRUT FRAME (TYP.)
- 13 (E) CIENA UNIT WITH (E) UAM BELOW BY OTHERS
- 14 (E) TELCO BOX WITH (E) EMERGENCY SHUTDOWN SIGNAGE
- 15 (E) AT&T 2" CONDUIT WITH 1/2" COAX TO BE REMOVED
- 16 (E) EQUIPMENT CABINET BY OTHERS (TYP.)
- 17 (E) AT&T DC & FIBER TRUNKS



EXISTING EQUIPMENT PLAN @ ROOFTOP

NEW EQUIPMENT LAYOUT KEY NOTES

- A (N) (1) AT&T 6630 BASEBAND UNIT TO BE INSTALLED INSIDE (E) PURCELL CABINET (1 D-2)
- B (N) (1) AT&T XMU TO BE INSTALLED INSIDE (E) PURCELL CABINET (2 D-2)
- C (N) (2) AT&T DC-12 SURGE PROTECTION TO BE MOUNTED IN (E) STRUT FRAME (3 D-2)
- D (N) (1) AT&T VERTIV OUTDOOR 512 DC POWER PLANT W/ (8) RECTIFIERS (4 D-2, 5 D-2)
- E (N) (4) AT&T GS-PYL12V185FT BATTERIES TO BE INSTALLED INSIDE (N) POWER PLANT (6 D-2)
- F (N) AT&T (2) DC & (1) FIBER TRUNKS FROM (E) EQUIPMENT LEASE AREA ON ROOF TOP TO (N) CUPOLA AND (3) DC & (1) FIBER TRUNKS FROM (E) EQUIPMENT LEASE AREA TO (E) EQUIPMENT AT WALL (APPROX.) SECTOR "A", 178' ± SECTOR "B", 146' ±



NEW EQUIPMENT PLAN @ ROOFTOP

SCALE: 5/16" = 1'-0" 2

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

PLANS PREPARED BY:  
**INTELOCITY**  
DESIGN | BUILD | INNOVATE  
1875 Coronado Ave  
Signal Hill, CA 90755  
A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

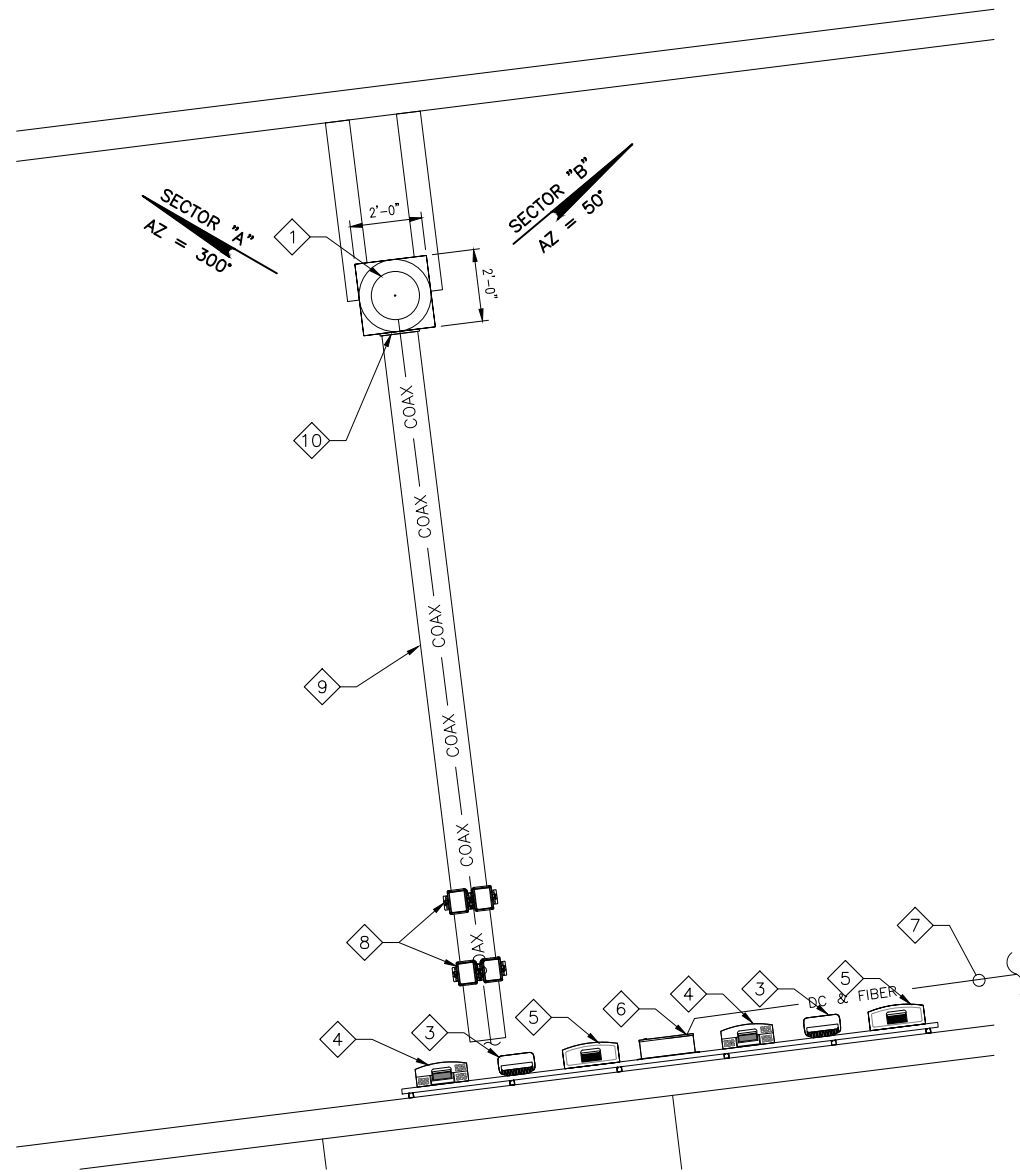
IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

SHEET TITLE  
ENLARGED ROOF PLAN,  
EXISTING AND NEW  
EQUIPMENT LAYOUT

SHEET NUMBER  
**A-2**

EXISTING ANTENNA LAYOUT KEY NOTES

- 1 (E) AT&T CANISTER ANTENNA TO BE REMOVED  $\frac{1}{D-3}$
- 2 (E) AT&T FRP RADOME TO BE REMOVED
- 3 (E) AT&T RRUS-32 B30 TO BE RELOCATED (1) PER SECTOR, (2) TOTAL
- 4 (E) AT&T RRUS-11 B12 TO BE REMOVED (1) PER SECTOR (2) TOTAL  $\frac{2}{D-3}$
- 5 (E) AT&T RRUS-12 B2 TO BE REMOVED (1) PER SECTOR (2) TOTAL  $\frac{3}{D-3}$
- 6 (E) AT&T DC/6 SURGE BOX
- 7 (E) AT&T 2" CONDUIT WITH (E) FIBER & DC POWER TRUNKS ON (E) ROOFTOP WITH SLEEPERS
- 8 (E) AT&T TWIN DIPLEXERS (TYP. OF 2) TO BE REMOVED
- 9 (E) AT&T 1/2" COAX CABLE IN (E) CABLE TRAY (8) TOTAL
- 10 (E) AT&T NOTICE TO WORKERS & RF SIGNAGE

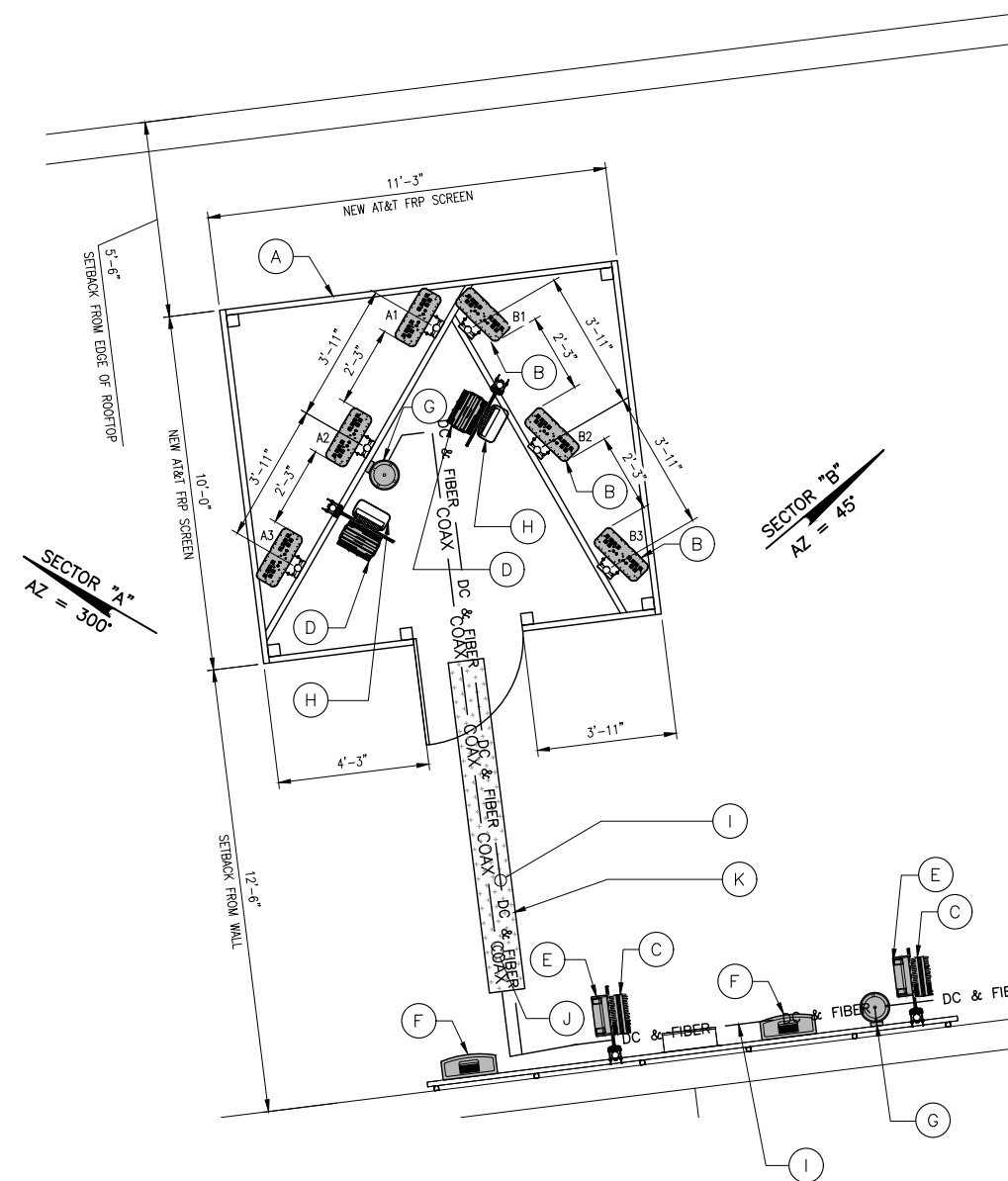


EXISTING ANTENNA LAYOUT

SCALE: 3/8"=1'-0" 0 1 2 3' 2

NEW ANTENNA LAYOUT KEY NOTES

- A (N) (1) FRP SCREENWALL  $\frac{1}{D-3}$
- B (N) AT&T COMMSCOPE NNH4-65A-R6H4 (3) PER SECTOR, (6) TOTAL  $\frac{1}{D-1}$   $\frac{2}{D-1}$
- C (N) AT&T RRUS-4449 B5/B12, (1) PER SECTOR, (2) TOTAL  $\frac{3}{D-1}$   $\frac{7}{D-1}$
- D (N) AT&T RRUS-8843 B2/B66A, (1) PER SECTOR, (2) TOTAL  $\frac{4}{D-1}$   $\frac{7}{D-1}$
- E (N) AT&T RRUS-4478 B14, (1) PER SECTOR, (2) TOTAL  $\frac{5}{D-1}$   $\frac{7}{D-1}$
- F (N) AT&T RRUS-E2 B29, (1) PER SECTOR, (2) TOTAL  $\frac{6}{D-1}$   $\frac{8}{D-1}$
- G (N) AT&T DC-9 SURGE SUPPRESSOR (1) PER SECTOR (2) TOTAL  $\frac{9}{D-1}$
- H (N) LOCATION OF (E) AT&T RRUS-32 B30 (1) PER SECTOR, (2) TOTAL  $\frac{7}{D-1}$
- I (N) AT&T (2) DC & (1) FIBER TRUNKS FROM (E) EQUIPMENT LEASE AREA ON ROOF TOP TO (N) CUPOLA AND (3) DC & (1) FIBER TRUNKS FROM (E) EQUIPMENT LEASE AREA TO (E) EQUIPMENT AT WALL (APPROX.) SECTOR "A", 178' ± SECTOR "B", 146' ±
- J (N) (16) AT&T 1/2" COAX
- K (N) (1) AT&T CABLE TRAY  $\frac{6}{D-3}$



NEW ANTENNA LAYOUT

SCALE: 3/8"=1'-0" 0 1 2 3' 1

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

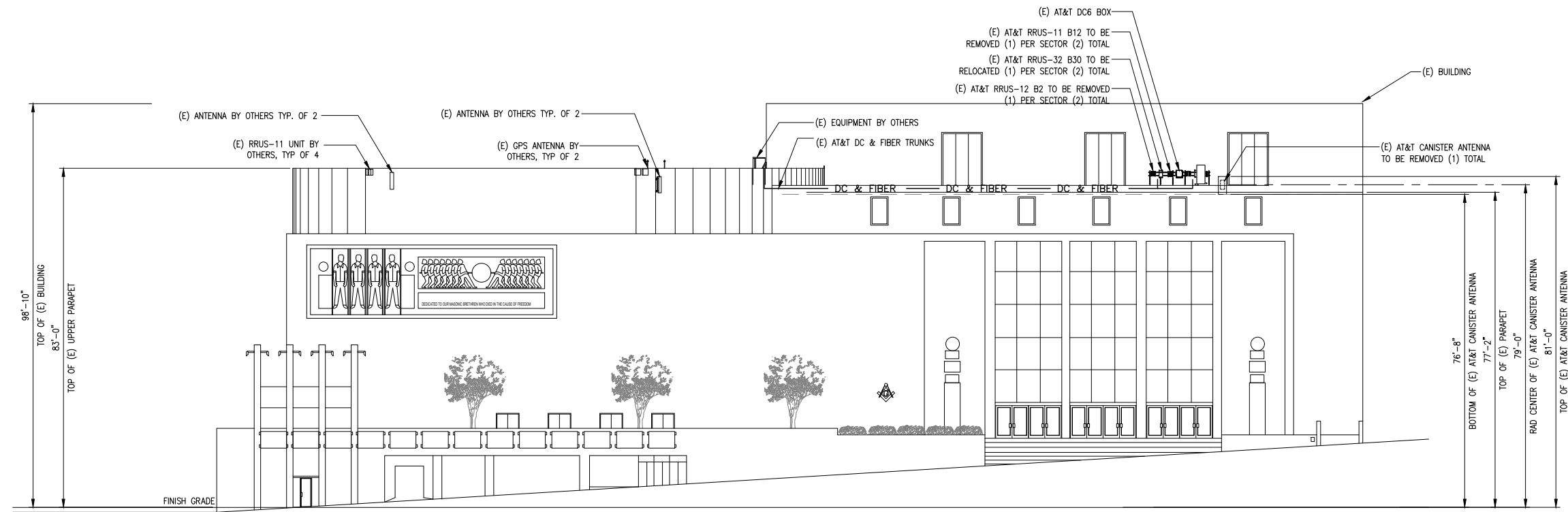
PLANS PREPARED BY:  
**INTELOCITY**  
DESIGN | BUILD | INNOVATE  
1875 Coronado Ave  
Signal Hill, CA 90755  
A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
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9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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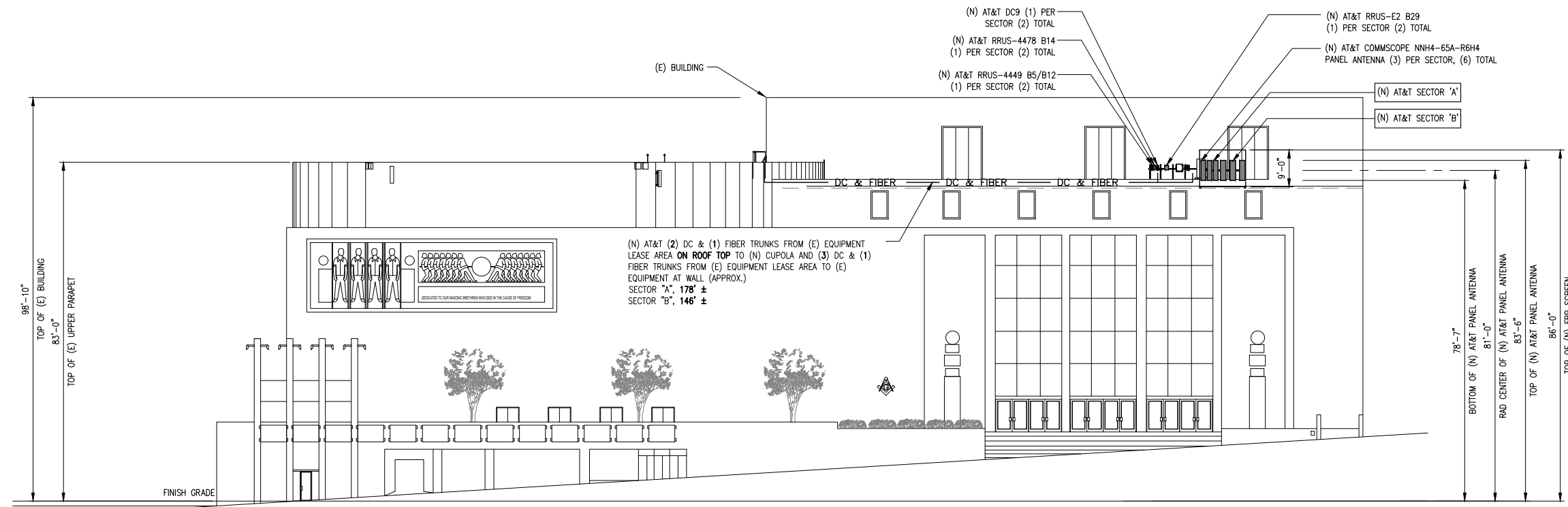
SHEET TITLE  
EXISTING AND NEW  
ANTENNA LAYOUT

SHEET NUMBER  
**A-3**



EXISTING NORTH ELEVATION

SCALE: 1/16"=1'-0" 0 8' 16' 1



NEW NORTH ELEVATION

SCALE: 1/16"=1'-0" 0 8' 16' 2

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

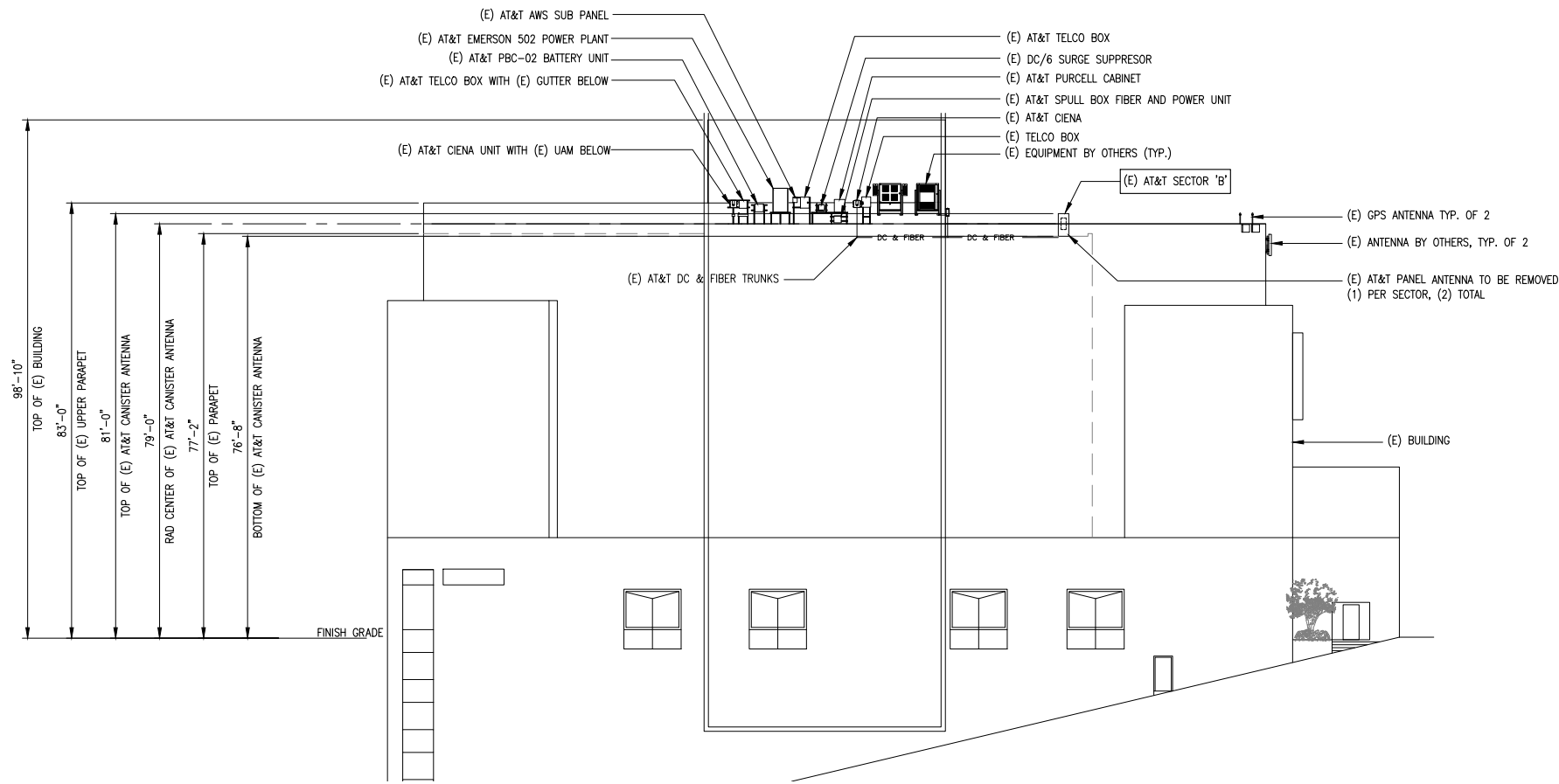
PLANS PREPARED BY:  
**INTELOCITY**  
DESIGN | BUILD | INNOVATE  
1875 Coronado Ave  
Signal Hill, CA 90755  
A NUWAVE COMPANY

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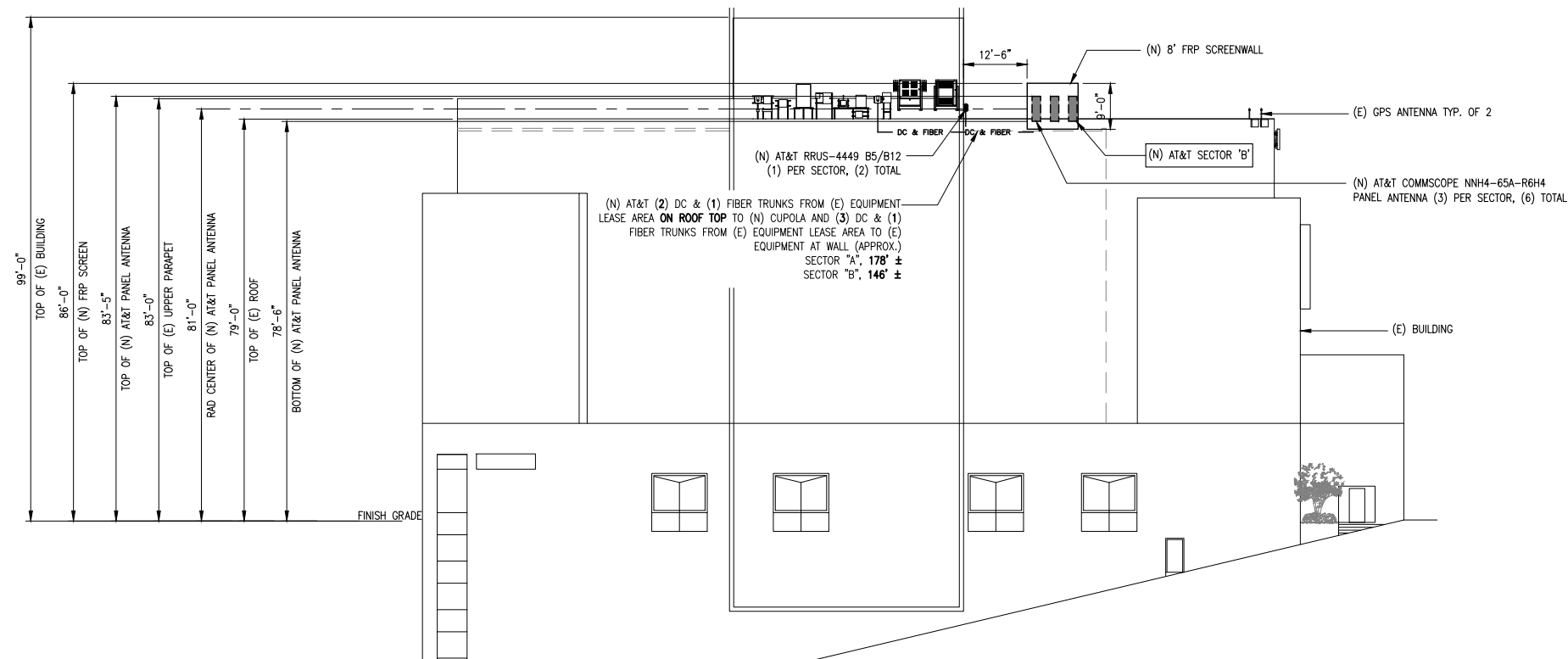
SHEET TITLE  
ELEVATION

SHEET NUMBER  
**A-4**



EXISTING EAST ELEVATION

SCALE: 1/16"=1'-0" 0 8' 16' 1



NEW EAST ELEVATION

SCALE: 1/16"=1'-0" 0 8' 16' 2

CLO1751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

PLANS PREPARED BY:  
**INTELOCITY**  
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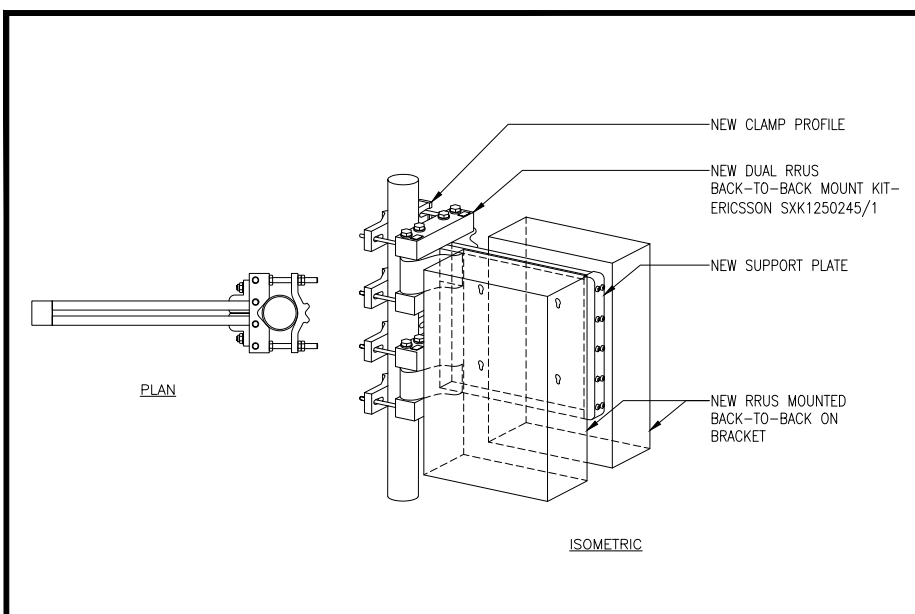
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10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

SHEET TITLE  
ELEVATION

SHEET NUMBER  
**A-5**

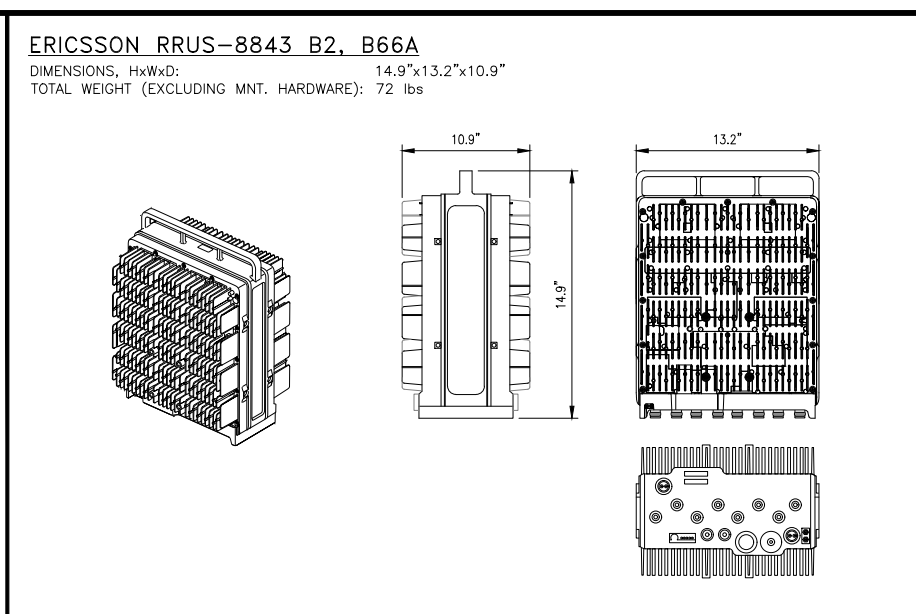




DUAL MOUNTING KIT

NO SCALE

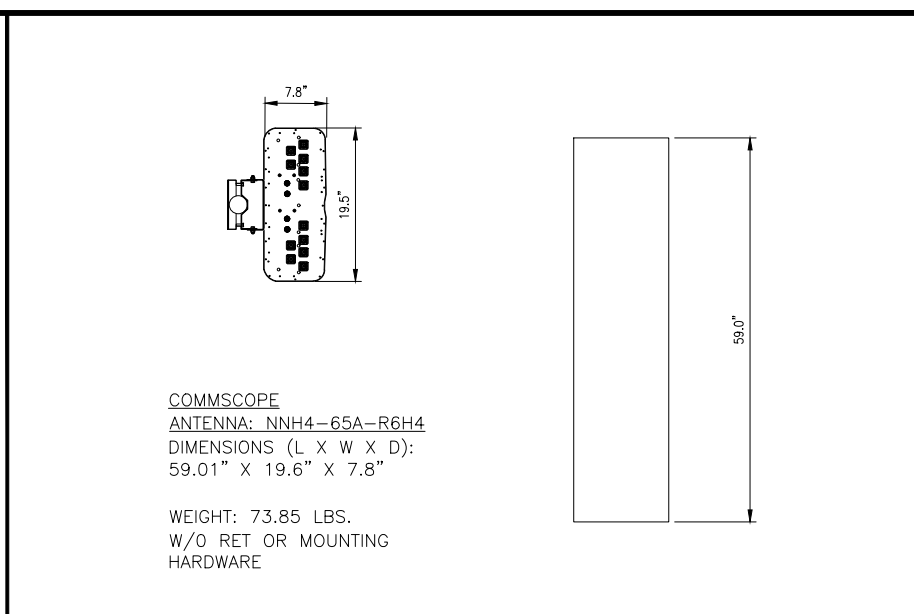
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RRUS-8843 SPECIFICATIONS

NO SCALE

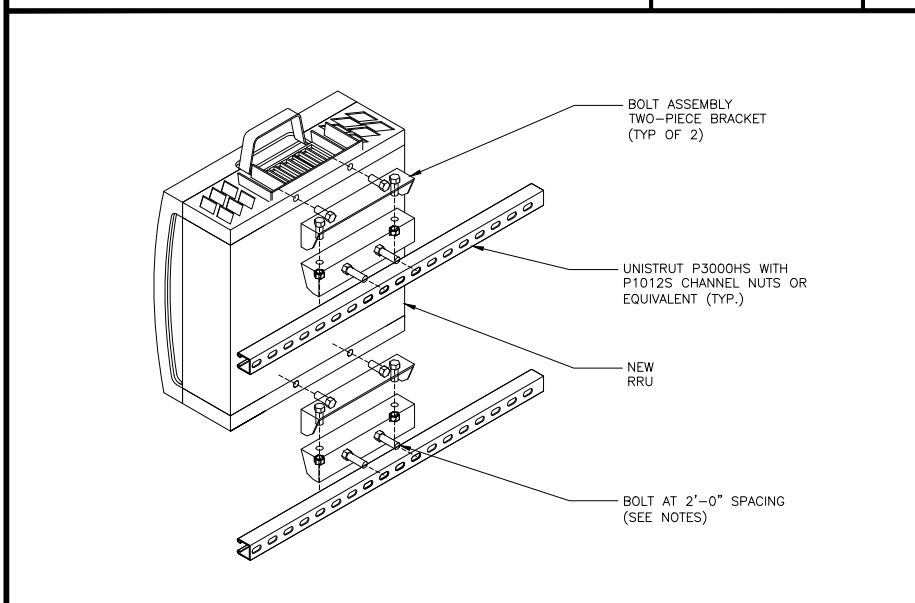
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COMMSCOPE ANTENNA

NO SCALE

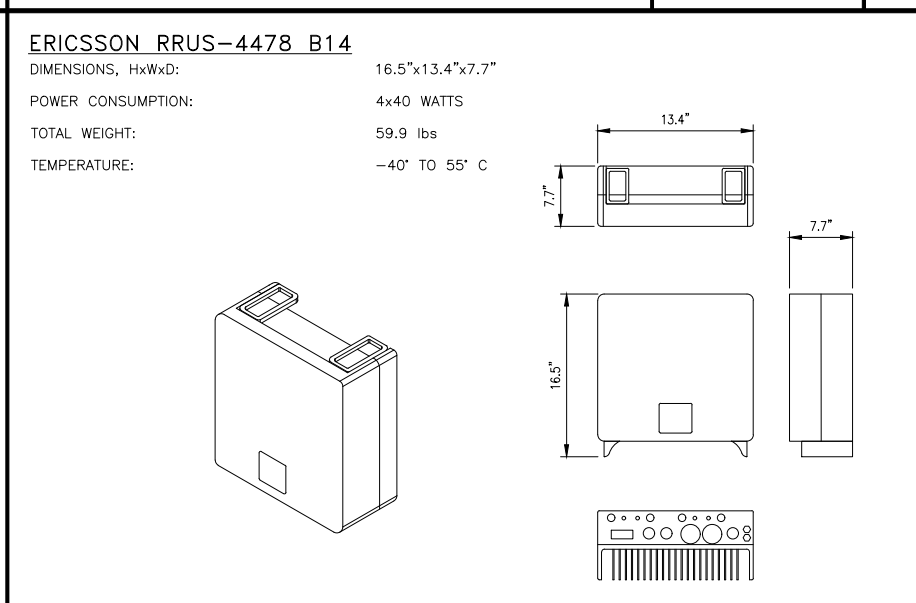
1



TYPICAL RRU MOUNTING DETAIL

NO SCALE

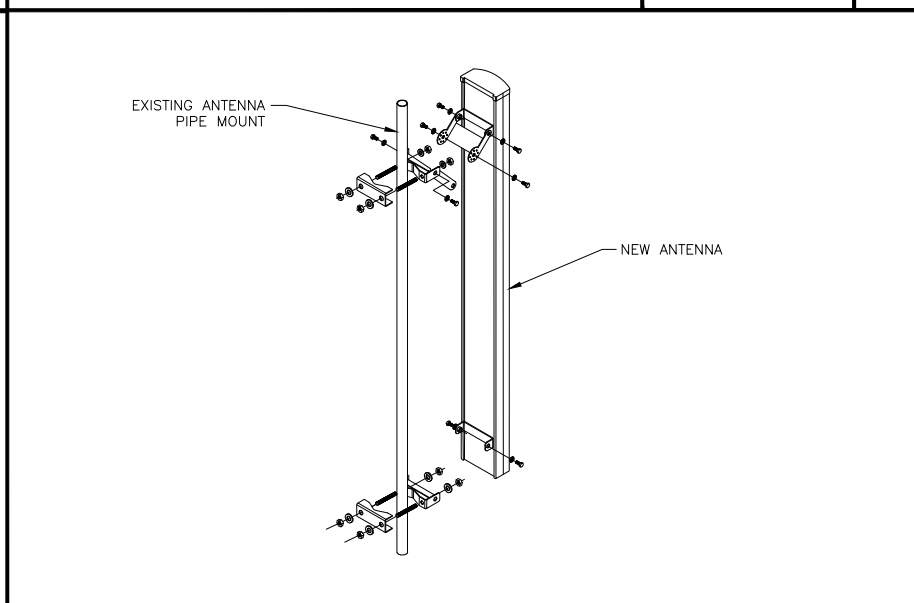
8



RRUS-4478 B14 SPECIFICATIONS

NO SCALE

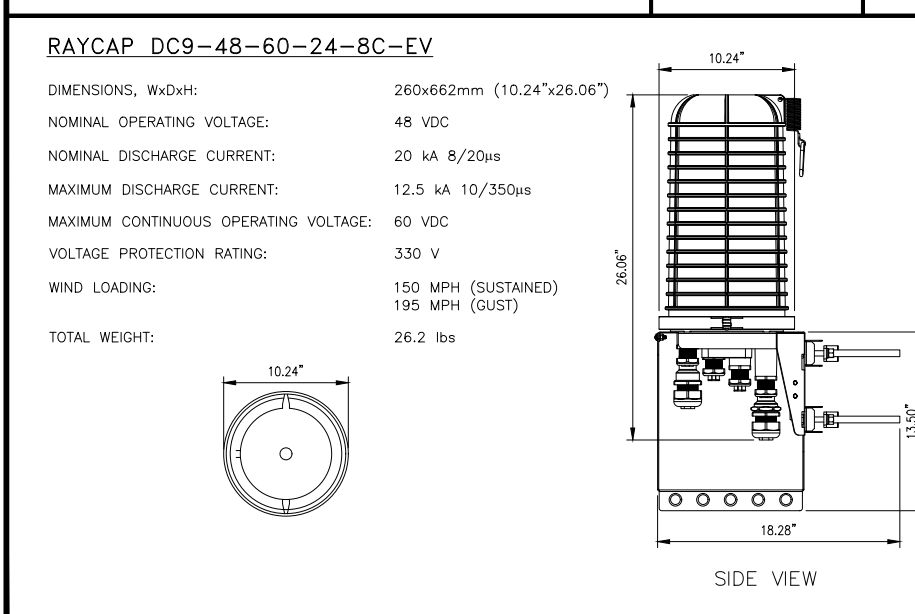
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TYPICAL ANTENNA MOUNT

NO SCALE

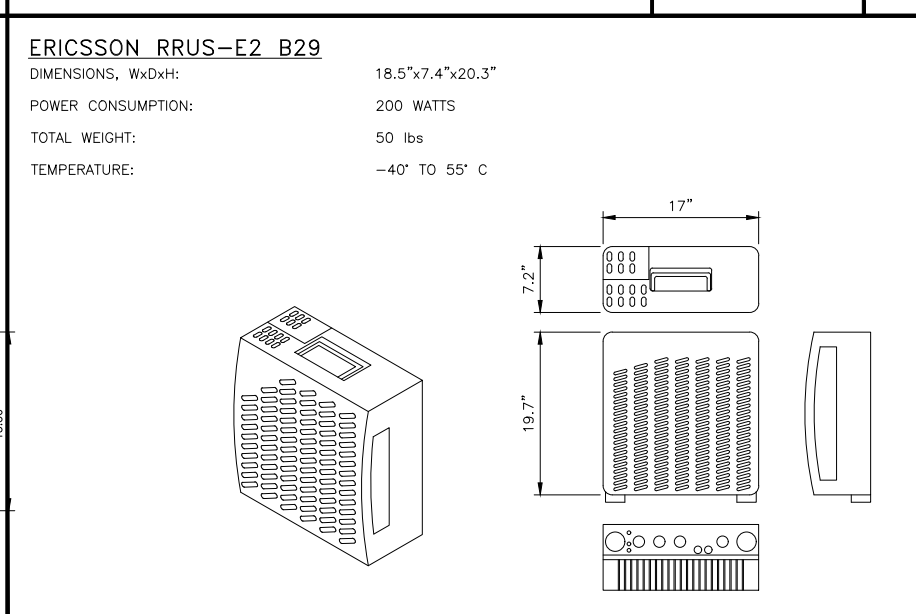
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DC 9 SURGE PROTECTION DETAIL

NO SCALE

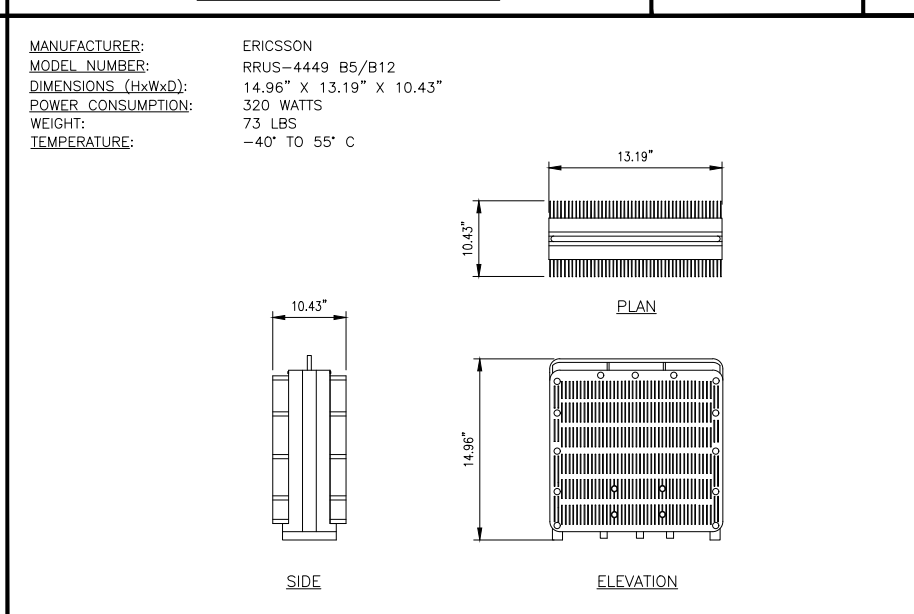
9



RRUS-E2 B29 SPECIFICATIONS

NO SCALE

6



RRUS-4449 B5, B12 SPECIFICATIONS

NO SCALE

3

CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109




PLANS PREPARED BY:  
**INTELOCITY**  
 DESIGN | BUILD | INNOVATE  
 1875 Coronado Ave  
 Signal Hill, CA 90755  
 A NUWAVE COMPANY

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SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**D-1**



### PYL12V185FT

12V 185Ah-8Hr

Proven in the real world, the PYL Series of telecom batteries provides security and long life in extreme climates where other VRLA batteries just don't survive. The PYL technology utilizes proprietary lead alloys and active material additives. The PYL Series is the most cost effective battery solution over the total life cycle and for initial installation in your network.

- Primary lead for Long Life
- UL94 V-0 flame retardant case
- High temperature, long life design
- AGM and spill-proof construction
- Harnesses/connecting bars available
- No maintenance required
- 10+ years design life
- GR-4228 compliant
- UL recognized
- ABS plastic case for durability

**SPECIFICATIONS**

\* Maximum Charge Current is 25% of the 8 Hr. Rate

Nominal Voltage (V)	Storage Capacity (Ah)	Ambient Temperature		Discharge (Ampere-hr)										Weight (lbs.)	
		Storage	Storage	1	2	3	4	5	6	7	8	9	10		11
12	185	-15 to 50°C (5 to 122°F)	-15 to 45°C (5 to 113°F)	556	21.6	125	4.3	317	12.5	317	12.5	62.7	125.8	125.8	Front-MS Bolt

Ampers to Final voltage: 1.75V per cell @ 25°C (77°F)

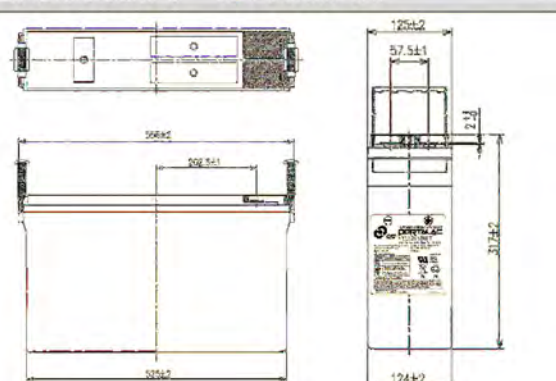
Time (hr)	1	2	3	4	5	6	7	8	9	10	11	12
Capacity (Ah)	11.2	52.6	41.3	34.4	30.0	26.0	23.1	21.0	19.3	17.7	16.2	15.2

Watts to Final voltage: 1.75V per cell @ 25°C (77°F)

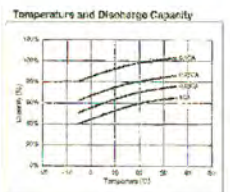
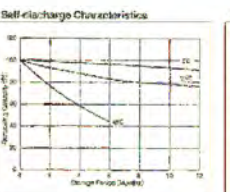
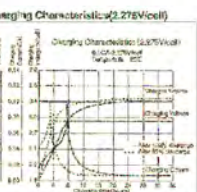
Time (hr)	1	2	3	4	5	6	7	8	9	10	11	12
Watts (W)	629	609	467	407	351	316	275	259	232	216	123	123

### PYL12V185FT

12V 185Ah-8Hr



- Float Charge Voltage: 13.65V +/- 0.15V
- Temperature Compensation: The recommended compensation factor is -3mV/°C/cell. The standard center point for temperature compensation is 25°C.
- Internal Resistance: Approximately 3.5 mΩ measured with 1kHz AC bridge
- Terminal Torque: 90 in.lbs. (13mm, top); 43.5 in.lbs. (10mm, front)

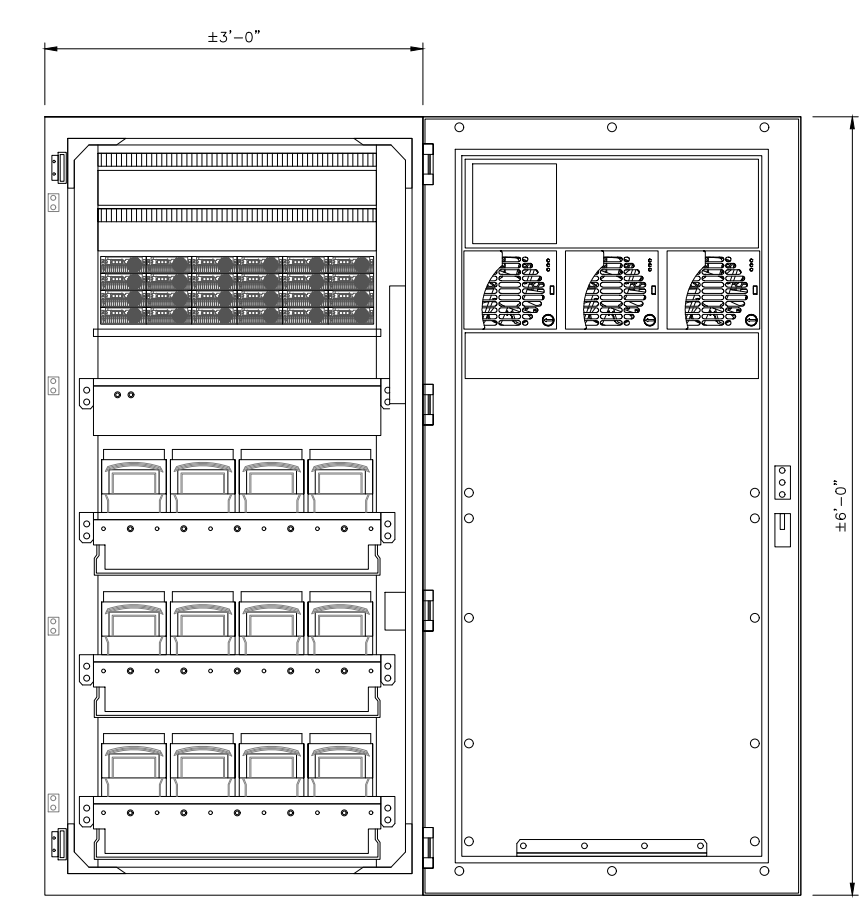
**GS Battery (U.S.A.), Inc.**  
1150 Northmeadow Parkway, Suite 110  
Roswell, GA 30076  
800-472-2879

**GS**  
www.gsbattery.com

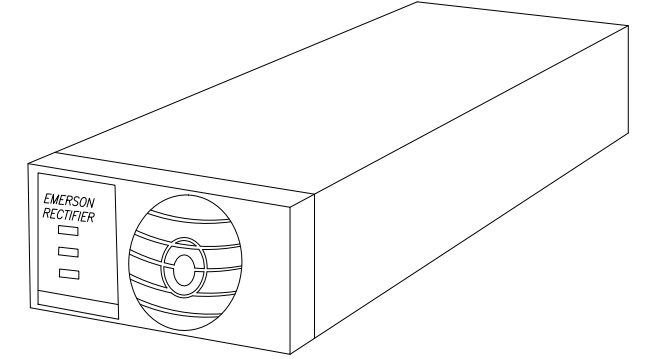
**UL**  
International Certification  
(1) ISO 9001, T815949  
(2) UL approval, Code: M112870

ORACLE NUMBER: NEQ.19341 (OR EQUAL)  
EMERSON P/N: F2015053  
WEIGHT: 752 lbs  
DIMENSIONS, HxWxD: 72" x 32" x 39"

BATTERY STRINGS: (3) -48V STRINGS  
BATTERY MODEL: (12) NEQ. 15171 MARATHON  
BREAKER DISCONNECT: M12V180FT  
100A BREAKER PER STRING



VERTIV OUTDOOR 512 POWER PLANT NO SCALE 4



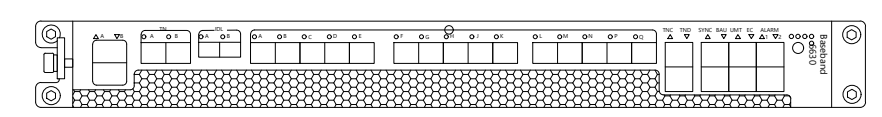
NEQ.15930 1R482000E3  
RECTIFIER, NETSURE™ 512 & 721, HIGH EFFICIENCY,  
-48 VDC, 40 A/2000 W, 120/208/240 VAC,  
SINGLE-PHASE INPUT, 4.4 LBS.

EMERSON NEQ.15930 RECTIFIER NO SCALE 5

### ERICSSON BASEBAND UNIT 6630

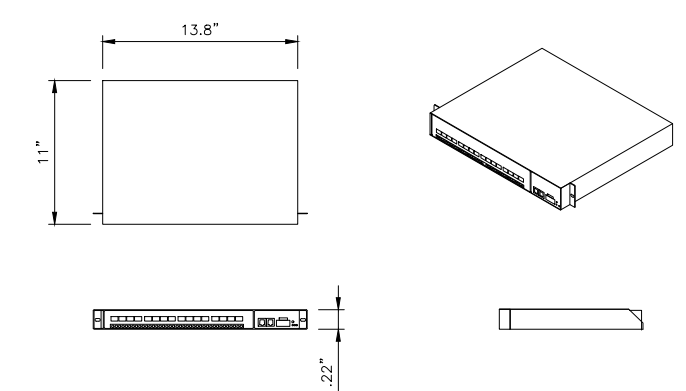
DC POWER SUPPLY: -48VDC  
NOMINAL VOLTAGE: 0 TO + 55 DEG C  
TEMPERATURE: 19" W X 13.8"D  
DIMENSION: 14.3 lbs  
WEIGHT:

15 CPRI PORTS  
MAXIMUM OF 24 CELLS (18 WITH NB-IOT)  
2 OPTICAL (1/10Gbps)/2 ELECTRICAL (1Gbps) PORTS



ERICSSON BASEBAND UNIT 6630 NO SCALE 1

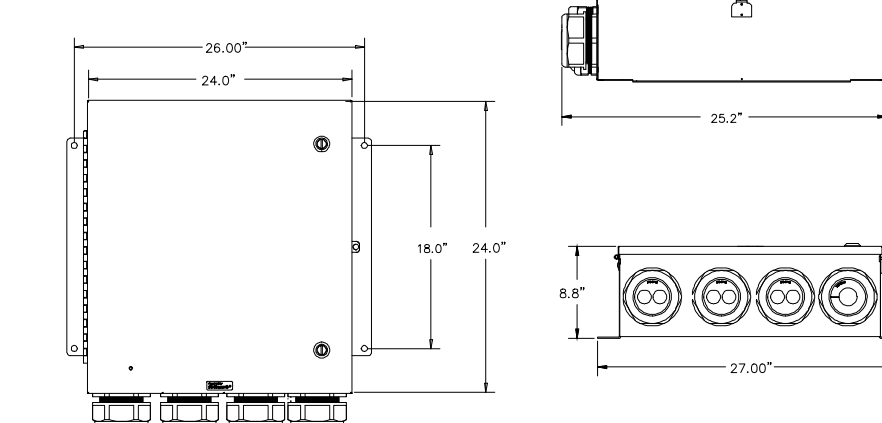
**XMU**  
DIMENSIONS, WxDxH: (13.8"x11.1"x1.22")  
MAX POWER CONSUMPTION: 80 W  
BREAKER SIZE: MIN 15 A, MAX 20 A  
TOTAL WEIGHT: ± 5 lbs



XMU DETAIL NO SCALE 2


### DC SURGE PROTECTION SOLUTIONS DC12-48-60-0-25E

DIMENSIONS, HxWxD: 24.00"x24.00"x8.00"  
VOLTAGE PROTECTION RATING (VPR): 400V  
VOLTAGE PROTECTION RATING [Up]: 410V  
TOTAL WEIGHT: 56.3 lbs



DC 12 SURGE PROTECTION DETAIL NO SCALE 3

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

PLANS PREPARED BY:



1875 Coronado Ave  
Signal Hill, CA 90755  
A NUWAVE COMPANY

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SHEET TITLE  
DETAILS

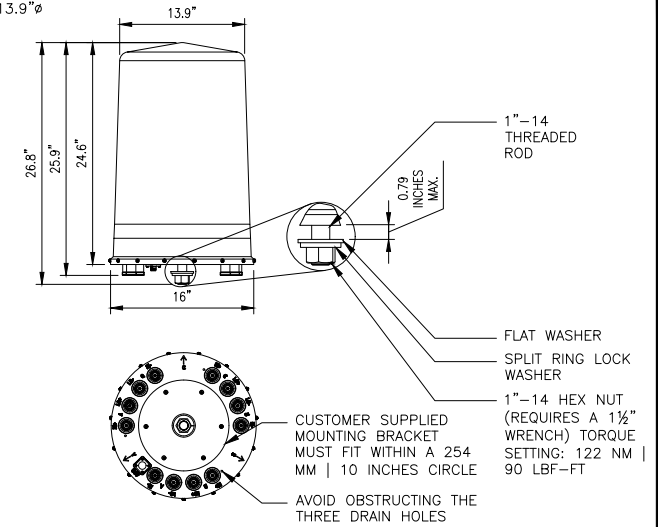
SHEET NUMBER  
**D-2**

GS PYL12V185FT BATTERY SPECIFICATIONS NO SCALE 6

DUW 30 01



KATHREIN CANISTER ANTENNA:  
800-10775K  
DIMENSIONS (H X D): 26.8 X 13.9"Ø  
WEIGHT: 42.3 LBS.



CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
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7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

NOT USED

NO SCALE

7

DUW 30 01 TO BE REMOVED

NO SCALE

4

OMNI-ANTENNA TO BE REMOVED

NO SCALE

1

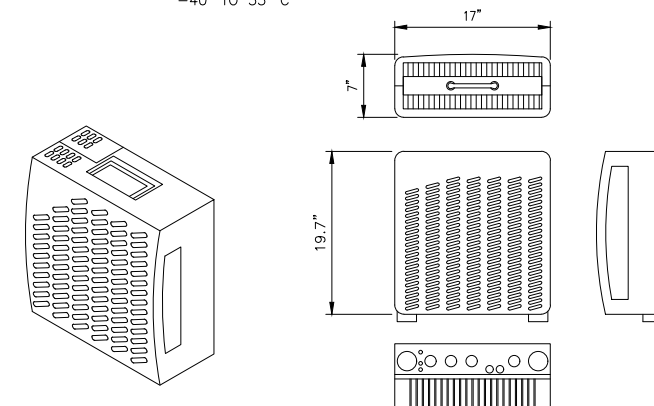
**EMERSON 502 DC POWER SYSTEM**

THE RECTIFIER SHELVES INTEGRATED INTO THE NETSURE 502 SYSTEM ARE 3.5" (2 RU) HIGH AND AVAILABLE IN 19" AND 23" WIDTHS. THESE SHELVES PROVIDE FRONT TO BACK VENTILATION AND CAN BE MOUNTED DIRECTLY ABOVE OR BELOW OTHER ELECTRONIC EQUIPMENT, MAXIMIZING REVENUE-GENERATING SPACE.



**ERICSSON RRUS-11 B12**

DIMENSIONS, HxWxD: 20"x17"x7"  
POWER CONSUMPTION: 200 WATTS  
TOTAL WEIGHT: 50 lbs  
TEMPERATURE: -40° TO 55° C



NOT USED

NO SCALE

8

EMERSON 502 POWER PLANT

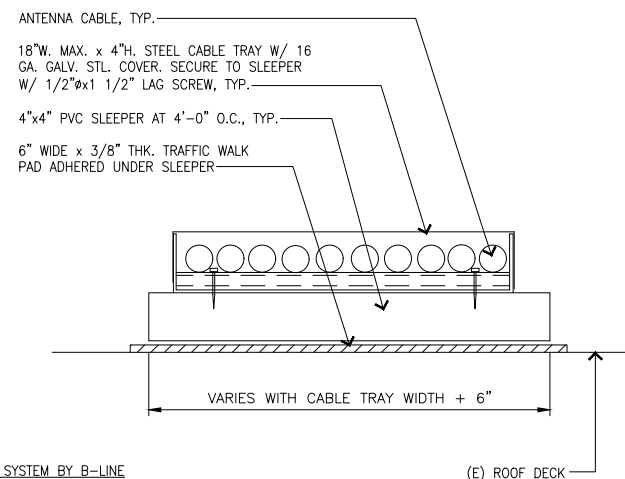
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RRUS-11 B12 TO BE REMOVED

NO SCALE

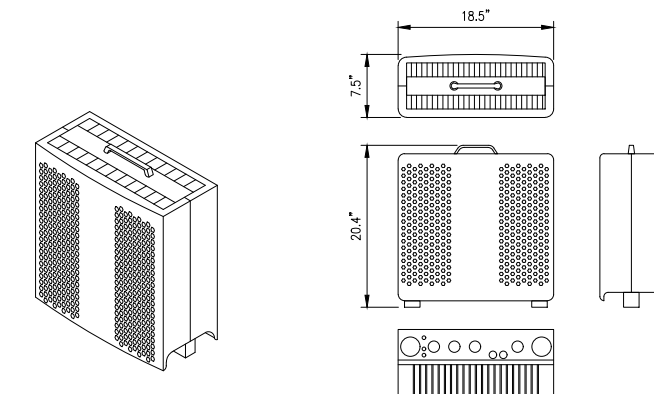
2



STEEL CABLE TRAY SYSTEM BY B-LINE  
SERIES 248  
LADDER TYPE MATERIAL - HOT DIPPED GALVANIZED,  
18 GA. RUNG SPACING - 12" O.C. WITH 16 GA. STEEL COVERS

**ERICSSON RRUS-12 B2**

DIMENSIONS, HxWxD: 20.4"x18.5"x7.5"  
POWER CONSUMPTION: 200 WATTS  
TOTAL WEIGHT: 50 lbs  
TEMPERATURE: -40° TO 55° C



NOT USED

NO SCALE

9

COAX CABLE TRAY DETAIL

NO SCALE

6

RRUS-12 B2 TO BE REMOVED

NO SCALE

3

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SHEET TITLE  
DETAILS

SHEET NUMBER

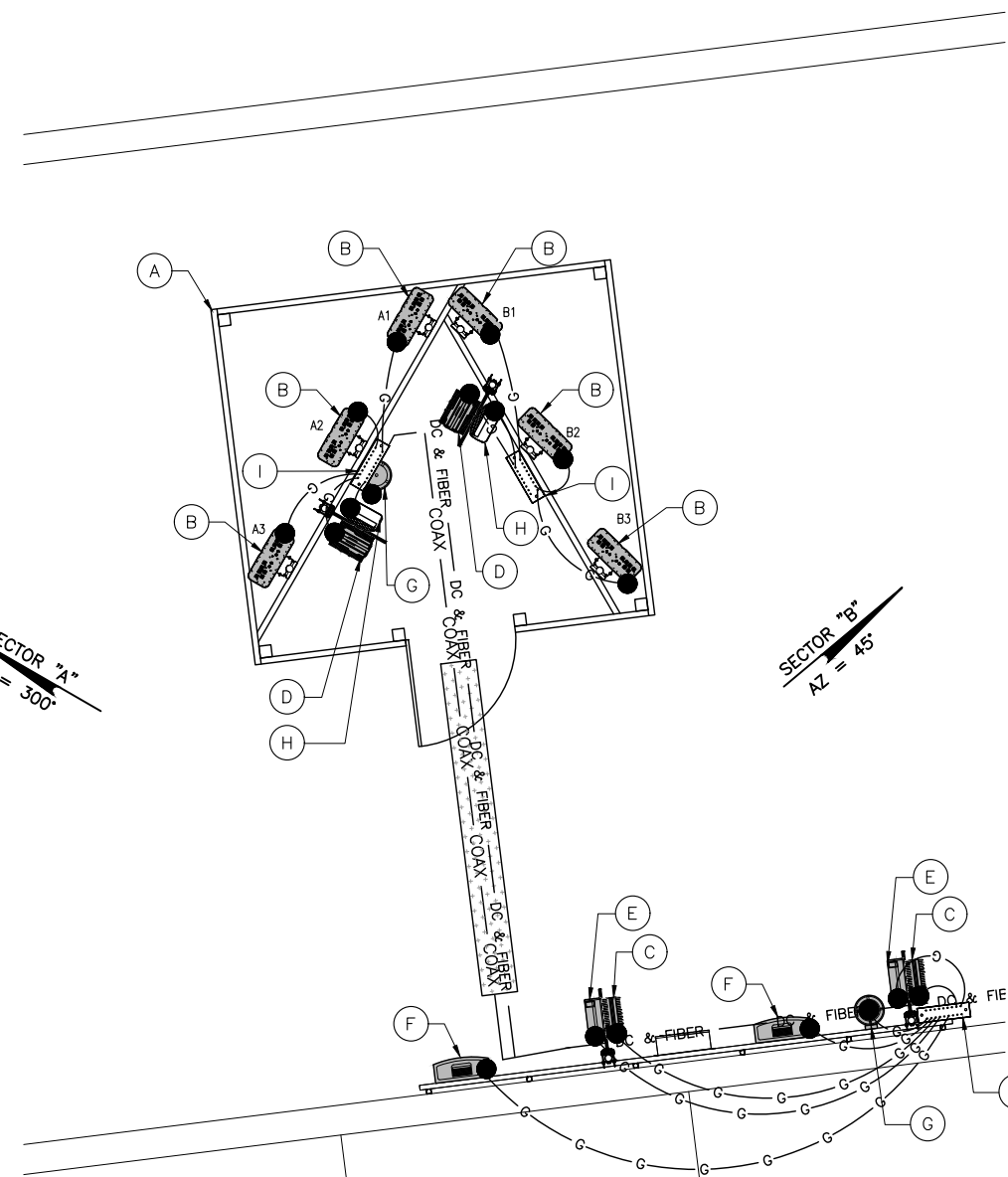
**D-3**

**GROUNDING NOTES:**

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

**NEW ANTENNA LAYOUT KEY NOTES**

- (A) (N) (1) FRP SCREENWALL
- (B) (N) AT&T COMMSCOPE NNH4-65A-R6H4 (3) PER SECTOR, (6) TOTAL
- (C) (N) AT&T RRUS-4449 B5/B12, (1) PER SECTOR, (2) TOTAL
- (D) (N) AT&T RRUS-8843 B2/B66A, (1) PER SECTOR, (2) TOTAL
- (E) (N) AT&T RRUS-4478 B14, (1) PER SECTOR, (2) TOTAL
- (F) (N) AT&T RRUS-E2 B29, (1) PER SECTOR, (2) TOTAL
- (G) (N) AT&T DC-9 SURGE SUPPRESSOR (1) PER SECTOR (2) TOTAL
- (H) (N) LOCATION OF (E) AT&T RRUS-32 B30 (1) PER SECTOR, (2) TOTAL
- (I) (E) AT&T GROUND BUSS BAR



**GROUNDING SYMBOLS**

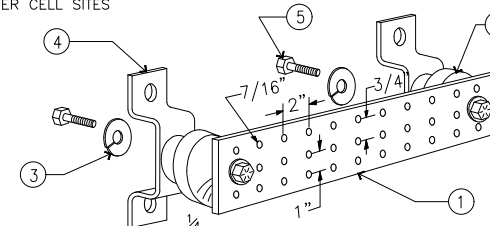
- MECHANICAL CONNECTION
- COMPRESSION TYPE CONNECTION
- G— #2 AWG INSULATED COPPER GROUND WIRE
- ▶ EXOTHERMIC WELD (CADWELD/THERMOWELD)

**NEW ANTENNA GROUNDING PLAN**

NO SCALE 1

**NOTE:**

NETWORK VISION MMBS DEPLOYMENTS INSTALLED AT LEGACY CDMA OR IDEN SITES SHALL USE THE EXISTING COPPER GROUND BARS IF THEY ARE PRESENT. IF THE COPPER GROUND BARS HAVE BEEN STOLEN THEY SHALL BE REPLACED WITH THE STAINLESS STEEL BAR AF000062 -IMN 010328 FOR MMBS OUTDOOR AND AF000063 -IMN 010330 FOR LEGACY SHELTER CELL SITES



- ① GALVANIZED STEEL GROUND BAR, "x 4"x 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- ② INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
- ③ 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR APPROVED EQUAL
- ④ WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR APPROVED EQUAL
- ⑤ 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR APPROVED EQUAL
- ⑥ INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

**GROUND BAR DETAIL**

NO SCALE 2

**GENERAL GROUNDING NOTES**

NO SCALE 4

**NOT USED**

NO SCALE 3

CCL01751  
4TX4RX SOFTWARE  
RETROFIT, 5G NR 1DR-1,  
LTE 4C, LTE 5C, LTE 6C  
CN5451  
1111 CALIFORNIA STREET  
SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
PLEASANT HILL, CA 94523

PLANS PREPARED BY:



1875 Coronado Ave  
Signal Hill, CA 90755

A NUWAVE COMPANY

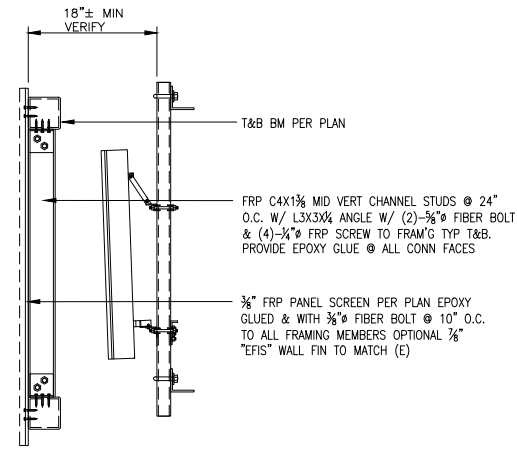
REV	DATE	DESCRIPTION	
11	04/20/21	CLIENT COMMENTS	JR
10	04/05/21	EME UPDATE	JP
9	03/18/21	100% CD MITIGATION PLAN	JP
8	01/11/21	CLIENT COMMENTS	JG
7	11/19/20	CLIENT COMMENTS	JR
6	09/21/20	100% CONSTRUCTION DRAWINGS	JG

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SHEET TITLE  
**GROUNDING NOTES,  
PLANS AND DETAILS**

SHEET NUMBER

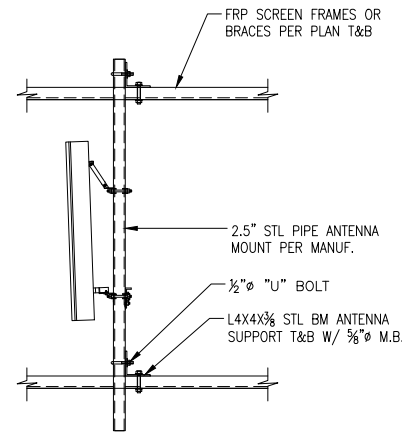
**G-1**



FRP WALL SECTION

NO SCALE

4



ANTENNA SUPPORT

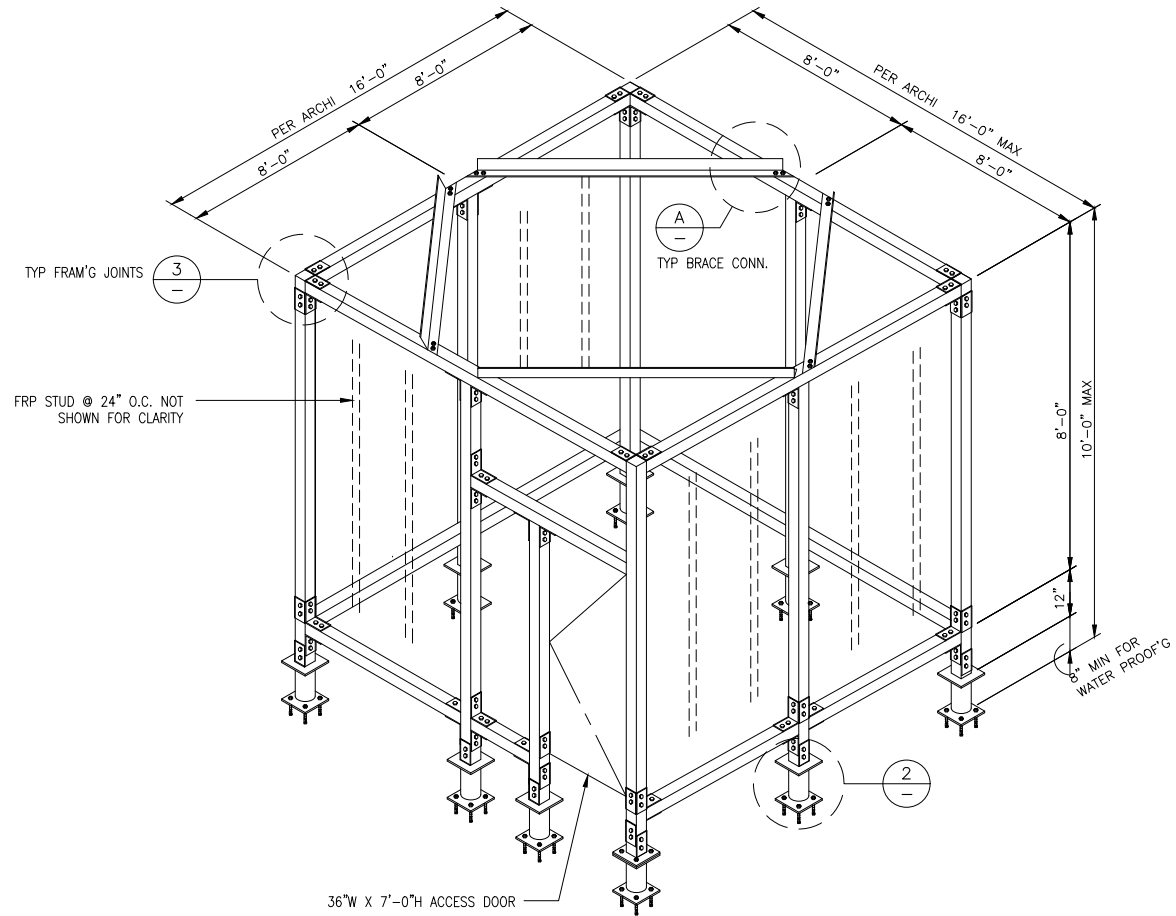
NO SCALE

5

GENERAL FIBERGLASS NOTES

- 'FRP' OR 'FG' REFERS TO FIBERGLASS MATERIAL.
- ALL FRP MATERIAL BY "FIBERGRATE COMPOSITE STRUCTURES" OR APPROVED EQUAL. MINIMUM STRENGTH AS FOLLOWS:  
 TENSILE LENGTHWISE: 5,350 PSI  
 TENSILE MODULUS: 3.48 X10E6 PSI  
 FLEXURAL LENGTHWISE: 6,685 PSI  
 FLEXURAL MODULUS: 2.54 X 10E6 PSI  
 SHEAR: 930 PSI  
 $\frac{1}{2}$ " FIBER BOLT BEAR'G:  
 LENGTHWISE: 5,150 PSI  
 CROSSWISE: 1,980 PSI
- ALL HOLES UNLESS NOTED OTHERWISE, SHALL BE PUNCHED OR DRILLED  $\frac{1}{16}$ " LARGER IN DIAMETER OF THE BOLTS THEY RECEIVE. APPLY FIBERGLASS ADHESIVE IN BOLTING APPLICATION TO SEAL BOLT HOLES.
- FIBERGLASS ADHESIVE:  
 ALL CONTACT SURFACES OF FRP STRUCTURAL SHAPES AND/OR HYBRID POLYMER COMPOSITE ARCHITECTURAL PANELS SHALL BE BONDED AS INDICATED ON THESE DRAWINGS WITH THE MANUFACTURER'S APPLICATION INSTRUCTIONS.
- LIQUID NAILS MULTIPURPOSE CONSTRUCTION ADHESIVE BY MACCO. BONDING SURFACES SHALL BE CAREFULLY PREPARED TO ENSURE A GOOD ADHESIVE BOND AS FOLLOWS: WIPE CONTACT SURFACES WITH A SOLVENT (STYRENE, TOLUENE OR METHYL (ALCOHOL)). REMOVE SURFACE GLOSS BY LIGHT SANDING, APPLY A ADHESIVE, FASTEN OR CLAMP BONDING SURFACES UNTIL CURED.
- ALL EXPOSED JOINTS AT ARCHITECTURAL PANELS AND SHAPES (EDGES CORNERS, ETC.) SHALL BE CAULKED WITH AN APPROVED FLEXIBLE POLYURETHANE SEALANT/ CAULK.

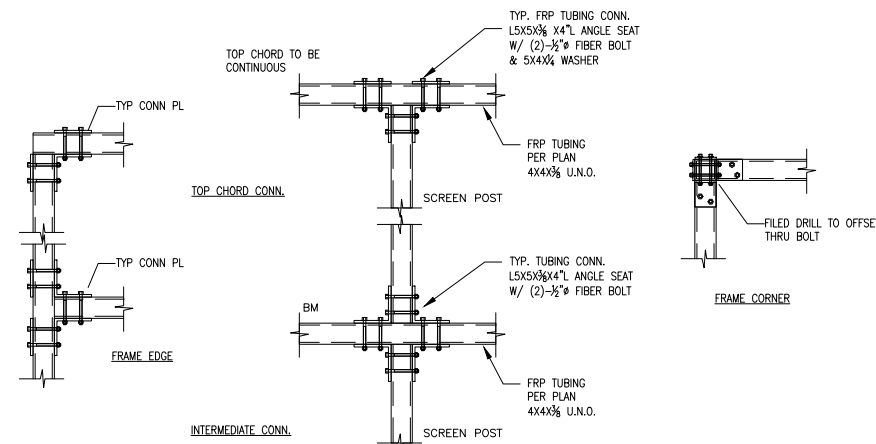
NOTE:  
 1. ALL HZ GIRTS T&B, POSTS, KICKERS ARE TU4X4 $\frac{3}{8}$ " FRP TUBING. BRACES AND WALL SILL PL ARE L4X4 $\frac{3}{8}$ " FRP ANGLES AND SCREEN STUDS ARE FRP C4X1 $\frac{3}{8}$ " CHANNELS. ALL CONNECTIONS TO BE MIN (2)- $\frac{3}{8}$ " FIBER BOLTS, U.N.O. (PULTEX 1625 OR EQUAL PER LARR#25536)  
 2. G.C. TO VERIFY (E) ROOF FRAM'G TO PROCEED.  
 3. ALL OPEN ENDS OR GAPS OF SCREEN FRAM'G WHERE WATER MAY BE TRAPED TO BE WEATHER CAPED OR SEALED BY G.C.



FRP FRAMING DETAIL

NO SCALE

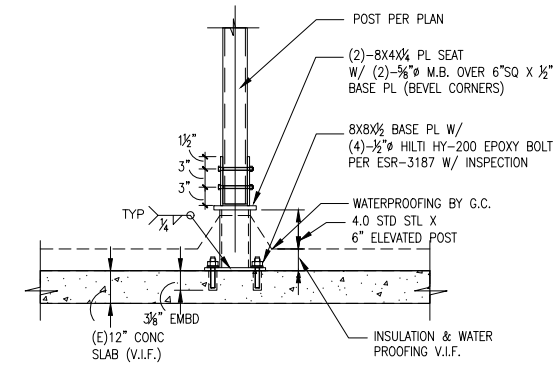
1



TYP. FRP BM/POST CONN

NO SCALE

3



POST BASE CONNECTION

NO SCALE

2

NOT USED

NO SCALE

6

CCL01751  
 4TX4RX SOFTWARE  
 RETROFIT, 5G NR 1DR-1,  
 LTE 4C, LTE 5C, LTE 6C  
 CN5451  
 1111 CALIFORNIA STREET  
 SAN FRANCISCO, CA 94109



5001 EXECUTIVE PKWY  
 SAN RAMON, CA 94583



360 CIVIC DRIVE., STE. C  
 PLEASANT HILL, CA 94523

PLANS PREPARED BY:  
**INTELOCITY**  
 DESIGN | BUILD | INNOVATE  
 1875 Coronado Ave  
 Signal Hill, CA 90755  
 A NUWAVE COMPANY

REV	DATE	DESCRIPTION	
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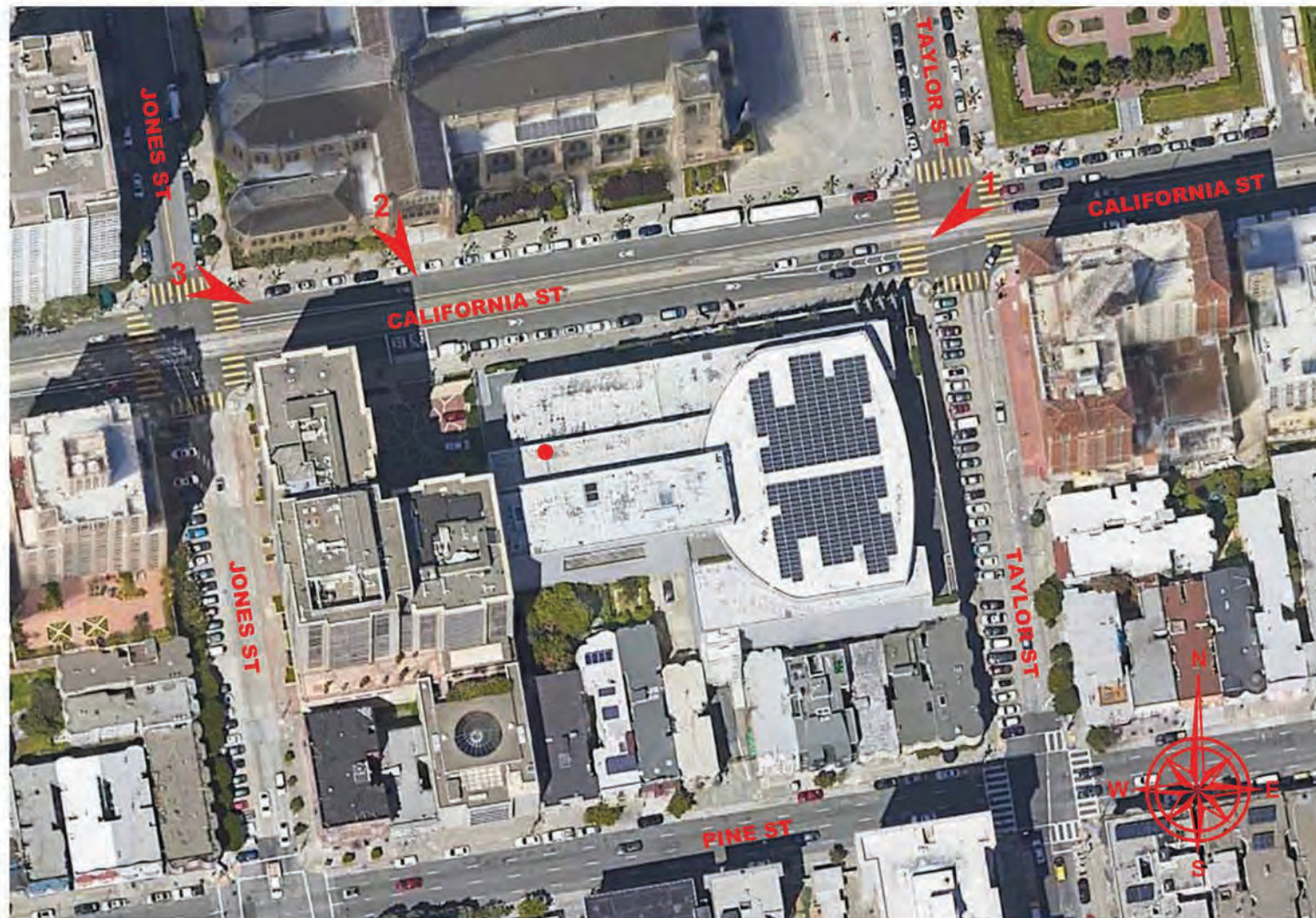
SHEET TITLE  
**STRUCTURAL DETAILS**

SHEET NUMBER  
**S-1**

# PHOTO SIMULATION

ROOFTOP MOUNTED PANEL ANTENNAS AT:

## 1111 CALIFORNIA STREET SAN FRANCISCO, CA 94109



### SHEET INDEX

PAGE NO.	PAGE TITLE
1	COVER
2	VIEW 1
3	VIEW 2
4	VIEW 3

### PROJECT DESCRIPTION

AT&T PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION

● LOCATION OF AT&T ANTENNAS

**COVER**

01.11.21



**INTELOCITY**  
DESIGN | BUILD | INNOVATE

1875 CORONADO AVE  
SIGNAL HILL, CA 90755  
PH: 562 -230-3519

### PROJECT INFORMATION

SITE NAME: CLAY ST & JONES ST  
SITE NUMBER: CCL01751  
SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109



(E) AT&T CANISTER ANTENNA TO BE REMOVED AND REPLACED (NOT VISIBLE)

**EXISTING**



NO VISUAL IMPACT

(N) AT&T PANEL ANTENNAS BEHIND (N) FRP SCREEN WALL (NOT VISIBLE)

**PROPOSED**

NOTE:  
CONTRACTOR TO PAINT ALL NEW ANTENNAS, RRUS, AND ASSOCIATED EQUIPMENT TO MATCH EXISTING CONDITIONS

**VIEW 1 | LOOKING SOUTHWEST FROM CALIFORNIA ST**

01.11.21



**INTELOCITY**  
DESIGN | BUILD | INNOVATE

1875 CORONADO AVE  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

**PROJECT INFORMATION**

SITE NAME: CLAY ST & JONES ST  
SITE NUMBER: CCL01751  
SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109



**VIEW 2 | LOOKING NORTH FROM CALIFORNIA ST**

01.11.21



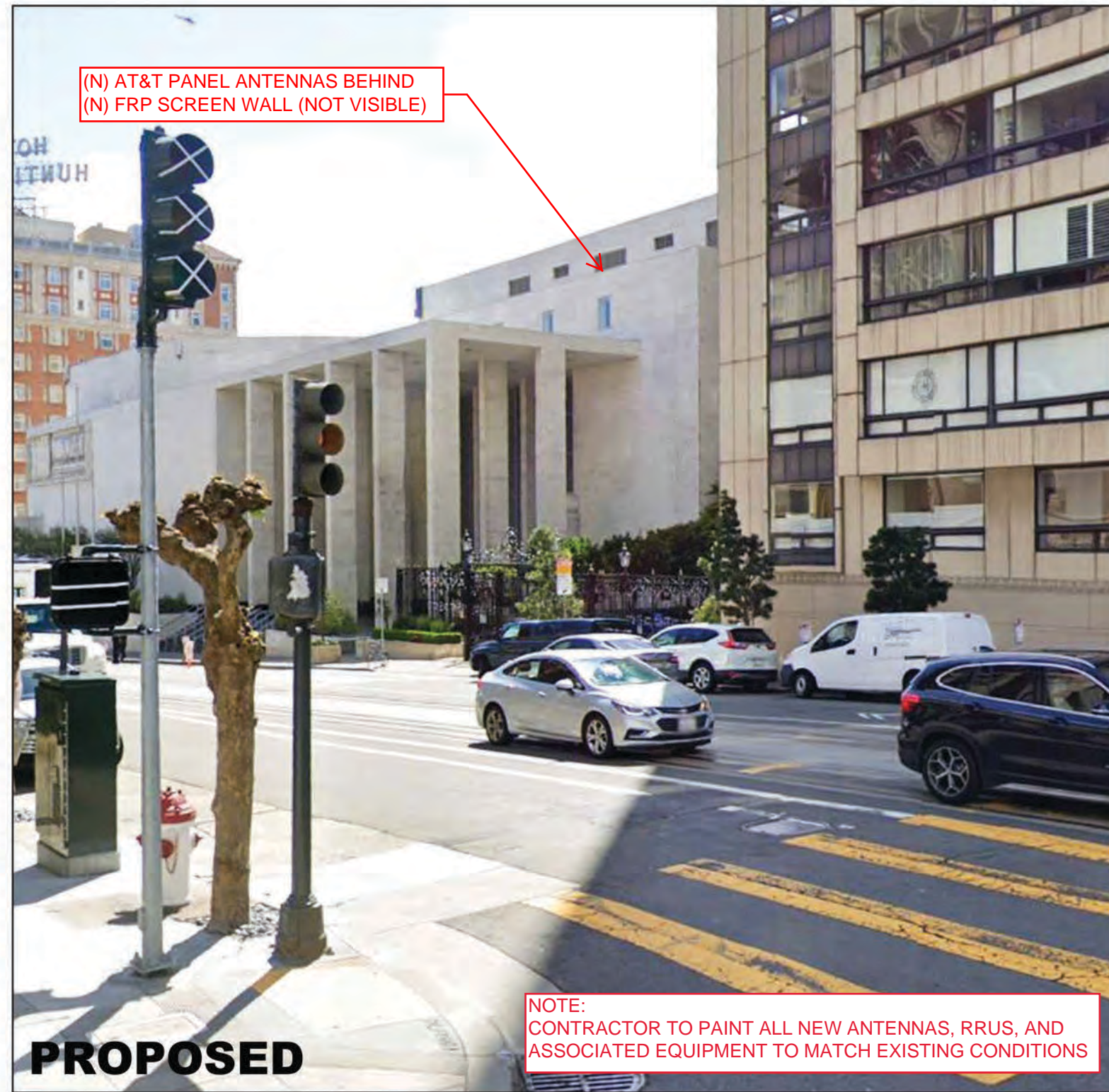
**INTELOCITY**  
DESIGN | BUILD | INNOVATE

1875 CORONADO AVE  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

**PROJECT INFORMATION**

SITE NAME: CLAY ST & JONES ST  
SITE NUMBER: CCL01751  
SITE ADDRESS: 1111 CALIFORNIA STREET, SAN FRANCISCO, CA 94109





**VIEW 3 | LOOKING SOUTHEAST FROM JONES ST**

01.11.21



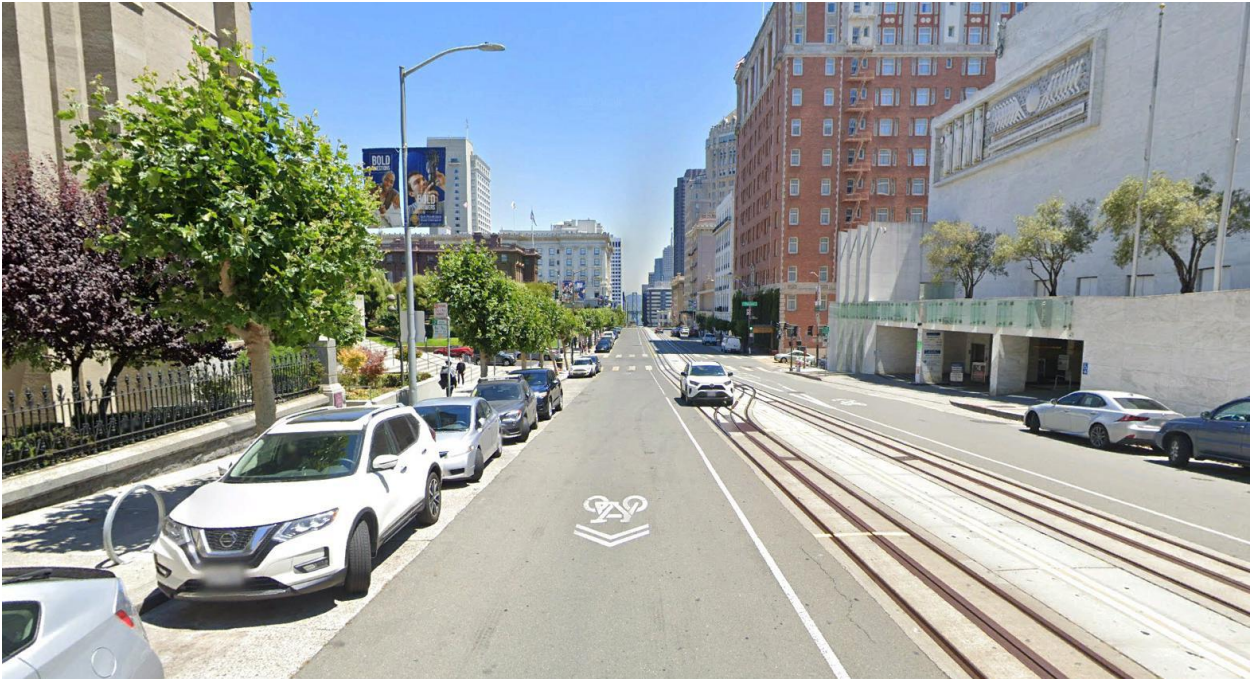
**INTELOCITY**  
DESIGN | BUILD | INNOVATE

1875 CORONADO AVE  
SIGNAL HILL, CA 90755  
PH: 562-230-3519

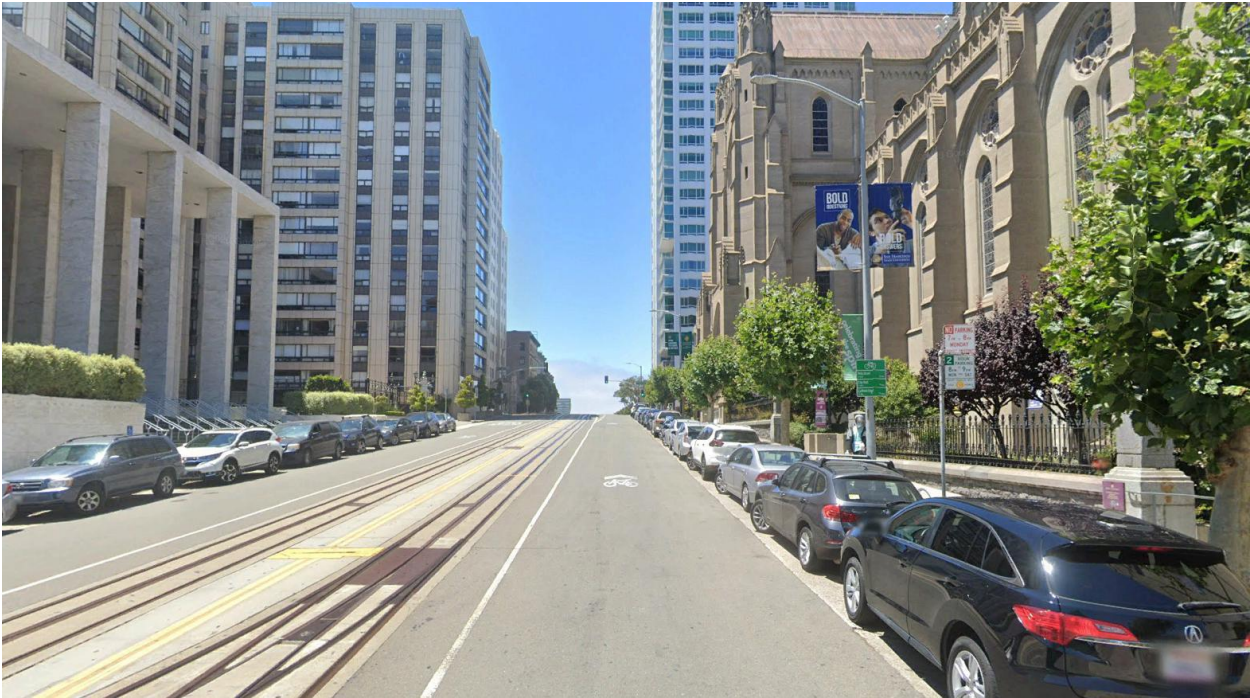
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SITE NAME: CLAY ST & JONES ST  
SITE NUMBER: CCL01751  
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Contextual Photos



View from site facing east.



View from site facing west.



## CEQA Exemption Determination

### PROPERTY INFORMATION/PROJECT DESCRIPTION

<b>Project Address</b>		<b>Block/Lot(s)</b>
1111 California Street		0253020
<b>Case No.</b>		<b>Permit No.</b>
2021-004901PRJ		
<input checked="" type="checkbox"/> <b>Addition/ Alteration</b>	<input type="checkbox"/> <b>Demolition (requires HRE for Category B Building)</b>	<input type="checkbox"/> <b>New Construction</b>
<p><b>Project description for Planning Department approval.</b>  Remove one existing omni-canister antenna; remove four (4) existing RRUs; Install new 8' FRP box with six(6) new antennas; eight (8) new RRUs, and two (2) new surge suppressors; remove existing power cabinet and replace with one (1) new power cabinet; relocate existing batteries to new cabinet; install other equipment inside existing cabinets.</p>		

### STEP 1: EXEMPTION TYPE

<b>The project has been determined to be exempt under the California Environmental Quality Act (CEQA).</b>	
<input checked="" type="checkbox"/>	<b>Class 1 - Existing Facilities.</b> Interior and exterior alterations; additions under 10,000 sq. ft.
<input type="checkbox"/>	<b>Class 3 - New Construction.</b> 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.
<input type="checkbox"/>	<p><b>Class 32 - In-Fill Development.</b> New Construction of seven or more units or additions greater than 10,000 sq. ft. and meets the conditions described below:</p> <p>(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.</p> <p>(b) The proposed development occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses.</p> <p>(c) The project site has no value as habitat for endangered rare or threatened species.</p> <p>(d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.</p> <p>(e) The site can be adequately served by all required utilities and public services.</p>
<input type="checkbox"/>	<b>Other</b> _____
<input type="checkbox"/>	<b>Common Sense Exemption (CEQA Guidelines section 15061(b)(3)).</b> It can be seen with certainty that there is no possibility of a significant effect on the environment.

**STEP 2: ENVIRONMENTAL SCREENING ASSESSMENT**

**TO BE COMPLETED BY PROJECT PLANNER**

<input type="checkbox"/>	<p><b>Air Quality:</b> 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. use of diesel construction equipment, backup diesel generators, heavy industry, diesel trucks, etc.)? <i>(refer to the Environmental</i></p>
<input type="checkbox"/>	<p><b>Hazardous Materials:</b>    <input type="checkbox"/> <b>Maher</b> or    <input type="checkbox"/> <b>Cortese</b>          Is the project site located within the Maher area or on a site containing potential subsurface soil or groundwater contamination and would it involve ground disturbance of at least 50 cubic yards or a change of use from an industrial use to a residential or institutional use? Is the project site located on a Cortese site or would the project involve work on a site with an existing or former gas station, parking lot, auto repair, dry cleaners, or heavy manufacturing use, or a site with current or former underground storage tanks?  <i>if Maher box is checked, note below whether the applicant has enrolled in or received a waiver from the San Francisco Department of Public Health (DPH) Maher program, or if Environmental Planning staff has determined that hazardous material effects would be less than significant.</i>  <b>Note that a categorical exemption shall not be issued for a project located on the Cortese List</b></p>
<input type="checkbox"/>	<p><b>Transportation:</b> 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? Would the project involve the intensification of or a substantial increase in vehicle trips at the project site or elsewhere in the region due to autonomous vehicle or for-hire vehicle fleet maintenance, operations or</p>
<input type="checkbox"/>	<p><b>Archeological Resources:</b> 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, archeology review is required.</p>
<input type="checkbox"/>	<p><b>Subdivision/Lot Line Adjustment:</b> Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? <i>(refer to the Environmental Information tab on <a href="https://sfplanninggis.org/PIM/">https://sfplanninggis.org/PIM/</a>)</i> <b>If box is checked, Environmental Planning must issue the exemption.</b></p>
<input type="checkbox"/>	<p><b>Average Slope of Parcel = or &gt; 25%, or site is in Edgehill Slope Protection Area or Northwest Mt. Sutro Slope Protection Area:</b> Does the project involve any of the following: (1) New building construction, except one-story storage or utility occupancy, (2) horizontal additions, if the footprint area increases more than 50%, or (3) horizontal and vertical additions increase more than 500 square feet of new projected roof area? <i>(refer to the Environmental Information tab on <a href="https://sfplanninggis.org/PIM/">https://sfplanninggis.org/PIM/</a>)</i> <b>If box is checked, a geotechnical report is likely required and Environmental Planning must issue the exemption.</b></p>
<input type="checkbox"/>	<p><b>Seismic Hazard:</b>    <input type="checkbox"/> <b>Landslide</b> or    <input type="checkbox"/> <b>Liquefaction Hazard Zone:</b>          Does the project involve any of the following: (1) New building construction, except one-story storage or utility occupancy, (2) horizontal additions, if the footprint area increases more than 50%, (3) horizontal and vertical additions increase more than 500 square feet of new projected roof area, or (4) grading performed at a site in the landslide hazard zone? <i>(refer to the Environmental Information tab on <a href="https://sfplanninggis.org/PIM/">https://sfplanninggis.org/PIM/</a>)</i> <b>If box is checked, a geotechnical report is required and Environmental Planning must issue the exemption.</b></p>
<p><b>Comments and Planner Signature (optional):</b>                      Elizabeth Gordon Jonckheer</p>	

**STEP 3: PROPERTY STATUS - HISTORIC RESOURCE  
TO BE COMPLETED BY PROJECT PLANNER**

<b>PROPERTY IS ONE OF THE FOLLOWING:</b> (refer to Property Information Map)	
<input checked="" type="checkbox"/>	<b>Category A:</b> Known Historical Resource. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	<b>Category B:</b> Potential Historical Resource (over 45 years of age). <b>GO TO STEP 4.</b>
<input type="checkbox"/>	<b>Category C:</b> Not a Historical Resource or Not Age Eligible (under 45 years of age). <b>GO TO STEP 6.</b>

**STEP 4: PROPOSED WORK CHECKLIST  
TO BE COMPLETED BY PROJECT PLANNER**

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. <b>Change of use and new construction.</b> Tenant improvements not included.
<input type="checkbox"/>	2. <b>Regular maintenance or repair</b> to correct or repair deterioration, decay, or damage to building.
<input type="checkbox"/>	3. <b>Window replacement</b> that meets the Department's <i>Window Replacement Standards</i> . Does not include storefront window alterations.
<input type="checkbox"/>	4. <b>Garage work.</b> A new opening that meets the <i>Guidelines for Adding Garages and Curb Cuts</i> , and/or replacement of a garage door in an existing opening that meets the Residential Design Guidelines.
<input type="checkbox"/>	5. <b>Deck, terrace construction, or fences</b> not visible from any immediately adjacent public right-of-way.
<input checked="" type="checkbox"/>	6. <b>Mechanical equipment installation</b> that is not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	7. <b>Dormer installation</b> that meets the requirements for exemption from public notification under <i>Zoning Administrator Bulletin No. 3: Dormer Windows</i> .
<input type="checkbox"/>	8. <b>Addition(s)</b> 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.
<b>Note: Project Planner must check box below before proceeding.</b>	
<input type="checkbox"/>	Project is not listed. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project <b>does not conform</b> to the scopes of work. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project involves <b>four or more</b> work descriptions. <b>GO TO STEP 5.</b>
<input checked="" type="checkbox"/>	Project involves <b>less than four</b> work descriptions. <b>GO TO STEP 6.</b>

**STEP 5: ADVANCED HISTORICAL REVIEW  
TO BE COMPLETED BY PRESERVATION PLANNER**

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. <b>Reclassification of property status.</b> (Attach HRER Part I)  <input type="checkbox"/> Reclassify to Category A a. Per HRER b. Other (specify):  <input type="checkbox"/> Reclassify to Category C (No further historic review)
<input checked="" type="checkbox"/>	2. Project involves a <b>known historical resource (CEQA Category A)</b> as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
<input type="checkbox"/>	3. <b>Interior alterations to publicly accessible spaces that do not remove, alter, or obscure character defining features.</b>
<input type="checkbox"/>	4. <b>Window replacement</b> of original/historic windows that are not "in-kind" but are consistent with existing historic character.
<input type="checkbox"/>	5. <b>Façade/storefront alterations</b> that do not remove, alter, or obscure character-defining features.

<input type="checkbox"/>	6. <b>Raising the building</b> in a manner that does not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	7. <b>Restoration</b> based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.
<input type="checkbox"/>	8. <b>Work consistent</b> with the <i>Secretary of the Interior Standards for the Treatment of Historic Properties</i> (Analysis required):
<input type="checkbox"/>	9. <b>Work compatible</b> with a historic district (Analysis required):
<input type="checkbox"/>	10. <b>Work that would not materially impair</b> a historic resource (Attach HRER Part II).
<b>Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST sign below.</b>	
<input type="checkbox"/>	<b>Project can proceed with exemption review.</b> The project has been reviewed by the Preservation Planner and can proceed with exemption review. <b>GO TO STEP 6.</b>
<b>Comments (optional):</b>	
<b>Preservation Planner Signature:</b> Elizabeth Gordon Jonckheer	

**STEP 6: EXEMPTION DETERMINATION**  
**TO BE COMPLETED BY PROJECT PLANNER**

<input checked="" type="checkbox"/>	<b>No further environmental review is required. The project is exempt under CEQA. There are no unusual circumstances that would result in a reasonable possibility of a significant effect.</b>	
	<b>Project Approval Action:</b> Planning Commission Hearing	<b>Signature:</b> Kalyani Agnihotri
		09/15/2021
<p>Supporting documents are available for review on the San Francisco Property Information Map, which can be accessed at <a href="https://sfplanninggis.org/PIM/">https://sfplanninggis.org/PIM/</a>. Individual files can be viewed by clicking on the Planning Applications link, clicking the "More Details" link under the project's environmental record number (ENV) and then clicking on the "Related Documents" link. Once signed or stamped and dated, this document constitutes an exemption pursuant to CEQA Guidelines and Chapter 31 of the Administrative Code.</p> <p>In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination to the Board of Supervisors can only be filed within 30 days of the project receiving the approval action.</p>		

## 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

### MODIFIED PROJECT DESCRIPTION

Modified Project Description:

### DETERMINATION IF PROJECT CONSTITUTES SUBSTANTIAL MODIFICATION

Compared to the approved project, would the modified project:

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Result in expansion of the building envelope, as defined in the Planning Code;   |
| <input type="checkbox"/> | Result in the change of use that would require public notice under Planning Code Sections 311 or 312;  |
| <input type="checkbox"/> | Result in demolition as defined under Planning Code Section 317 or 19005(f)?   |
| <input type="checkbox"/> | 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

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | The proposed modification would not result in any of the above changes. |
|--------------------------|---|

If this box is checked, the proposed modifications are 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

**Planner Name:**

**Date:**



# Land Use Information

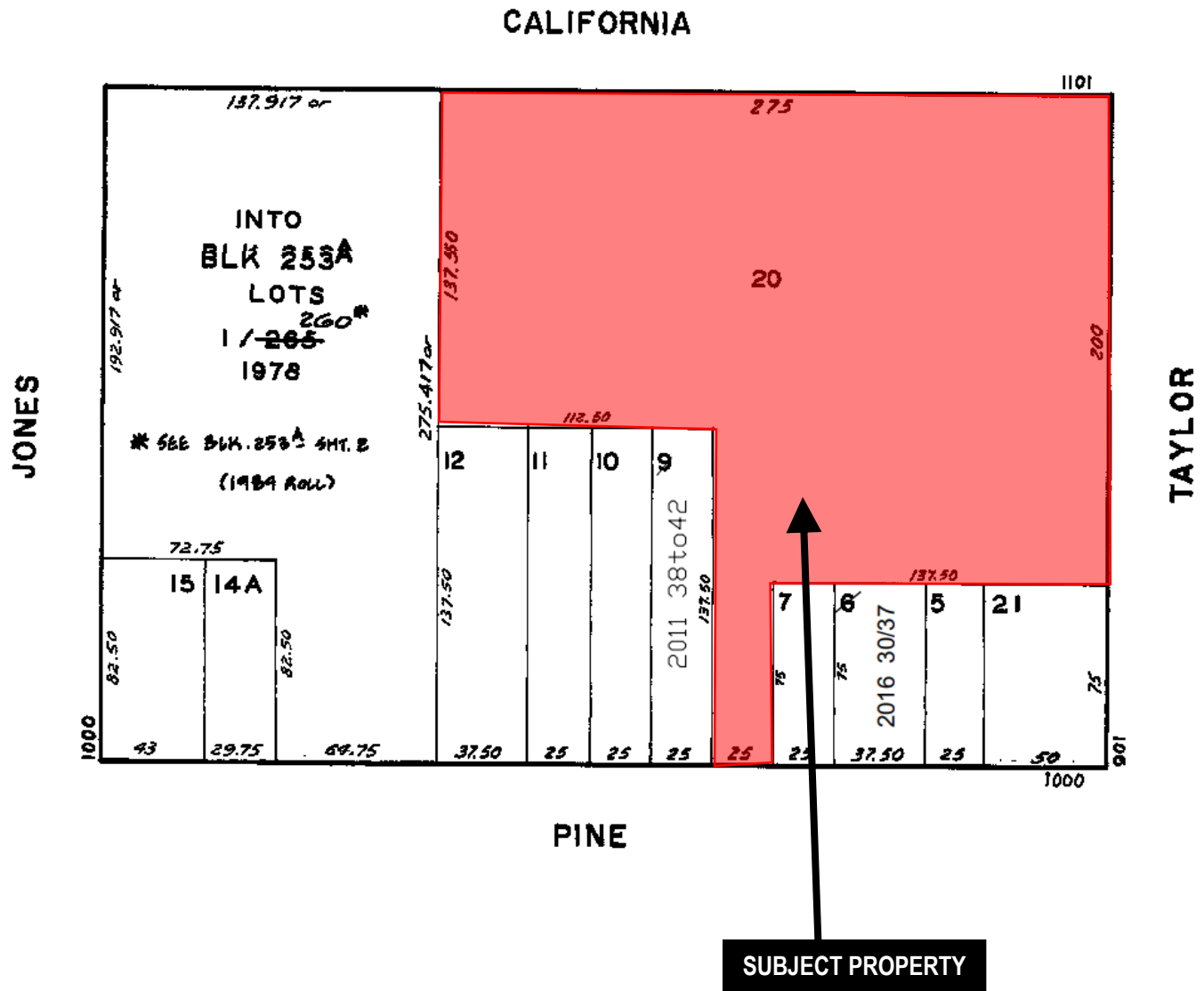
**PROJECT ADDRESS: 1111 CALIFORNIA ST**  
**RECORD NO.: 2021-004901PRJ**

	EXISTING	PROPOSED	NET NEW
<b>GROSS SQUARE FOOTAGE (GSF)</b>			
Parking GSF	N/A	N/A	N/A
Residential GSF	N/A	N/A	N/A
Retail/Commercial GSF	N/A	N/A	N/A
Office GSF	N/A	N/A	N/A
Industrial/PDR GSF <i>Production, Distribution, &amp; Repair</i>	N/A	N/A	N/A
Medical GSF	N/A	N/A	N/A
Visitor GSF	N/A	N/A	N/A
CIE GSF	N/A	N/A	N/A
Usable Open Space	N/A	N/A	N/A
Public Open Space	N/A	N/A	N/A
Other ( )	N/A	N/A	N/A
<b>TOTAL GSF</b>	<b>347,204</b>	<b>0</b>	<b>347,204</b>
	EXISTING	NET NEW	TOTALS
<b>PROJECT FEATURES (Units or Amounts)</b>			
Dwelling Units - Affordable	N/A	N/A	N/A
Dwelling Units - Market Rate	N/A	N/A	N/A
Dwelling Units - Total	N/A	N/A	N/A
Hotel Rooms	N/A	N/A	N/A
Number of Buildings	N/A	N/A	N/A
Number of Stories	N/A	N/A	N/A
Parking Spaces	N/A	N/A	N/A
Loading Spaces	N/A	N/A	N/A
Bicycle Spaces	N/A	N/A	N/A
Car Share Spaces	N/A	N/A	N/A
Other ( )	N/A	N/A	N/A



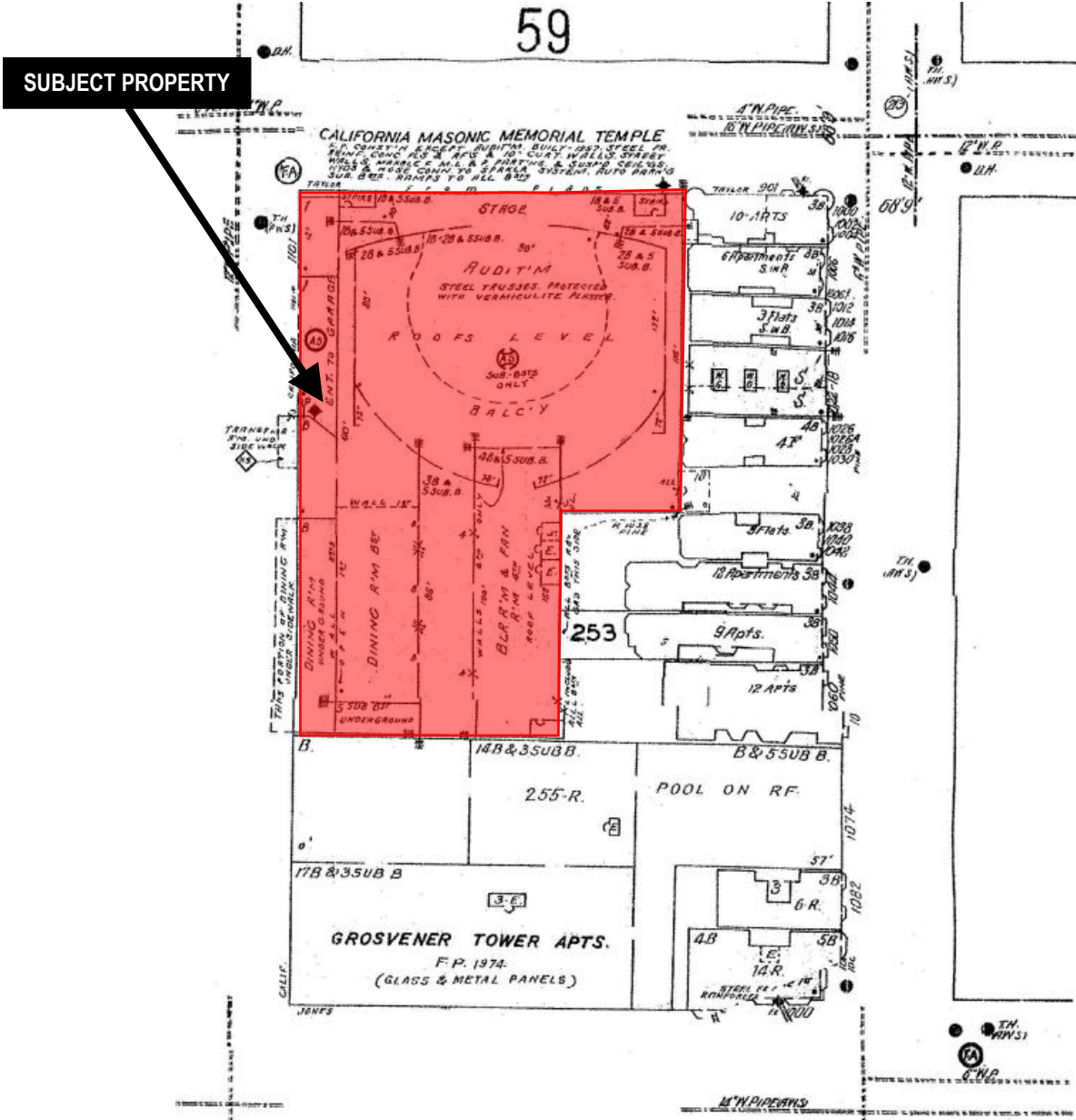
	EXISTING	PROPOSED	NET NEW
<b>LAND USE - RESIDENTIAL</b>			
Studio Units	N/A	N/A	N/A
One Bedroom Units	N/A	N/A	N/A
Two Bedroom Units	N/A	N/A	N/A
Three Bedroom (or +) Units	N/A	N/A	N/A
Group Housing - Rooms	N/A	N/A	N/A
Group Housing - Beds	N/A	N/A	N/A
SRO Units	N/A	N/A	N/A
Micro Units	N/A	N/A	N/A
Accessory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

# Parcel Map



Conditional Use Authorization  
 Case Number 2021-004901CUA  
 Macro Wireless Facility  
 1111 California Street

# Sanborn Map\*

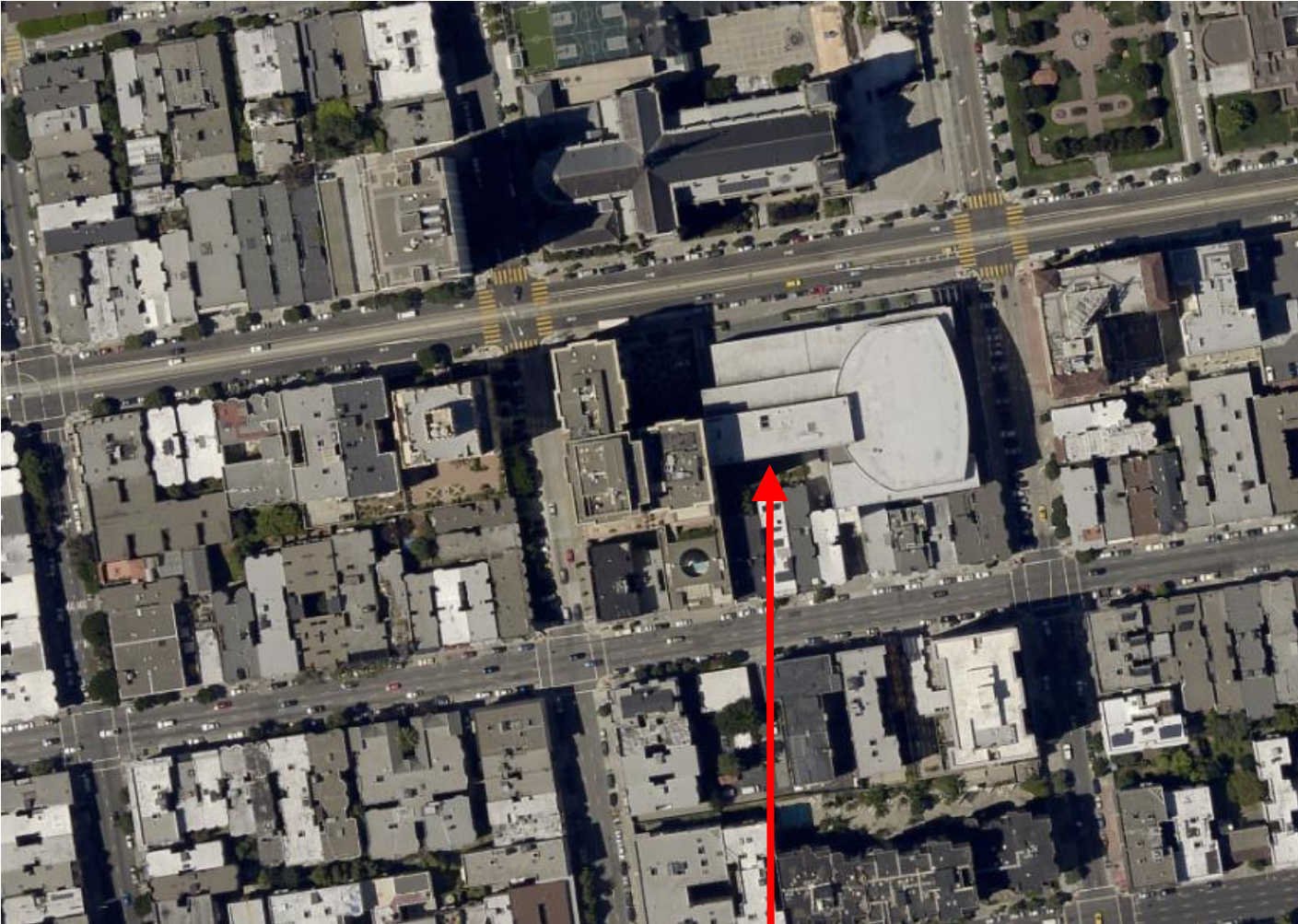


\*The Sanborn Maps in San Francisco have not been updated since 1998, and this map may not accurately reflect existing conditions.



Conditional Use Authorization  
 Case Number 2021-004901CUA  
 Macro Wireless Facility  
 1111 California Street

# Aerial Photo – View 1

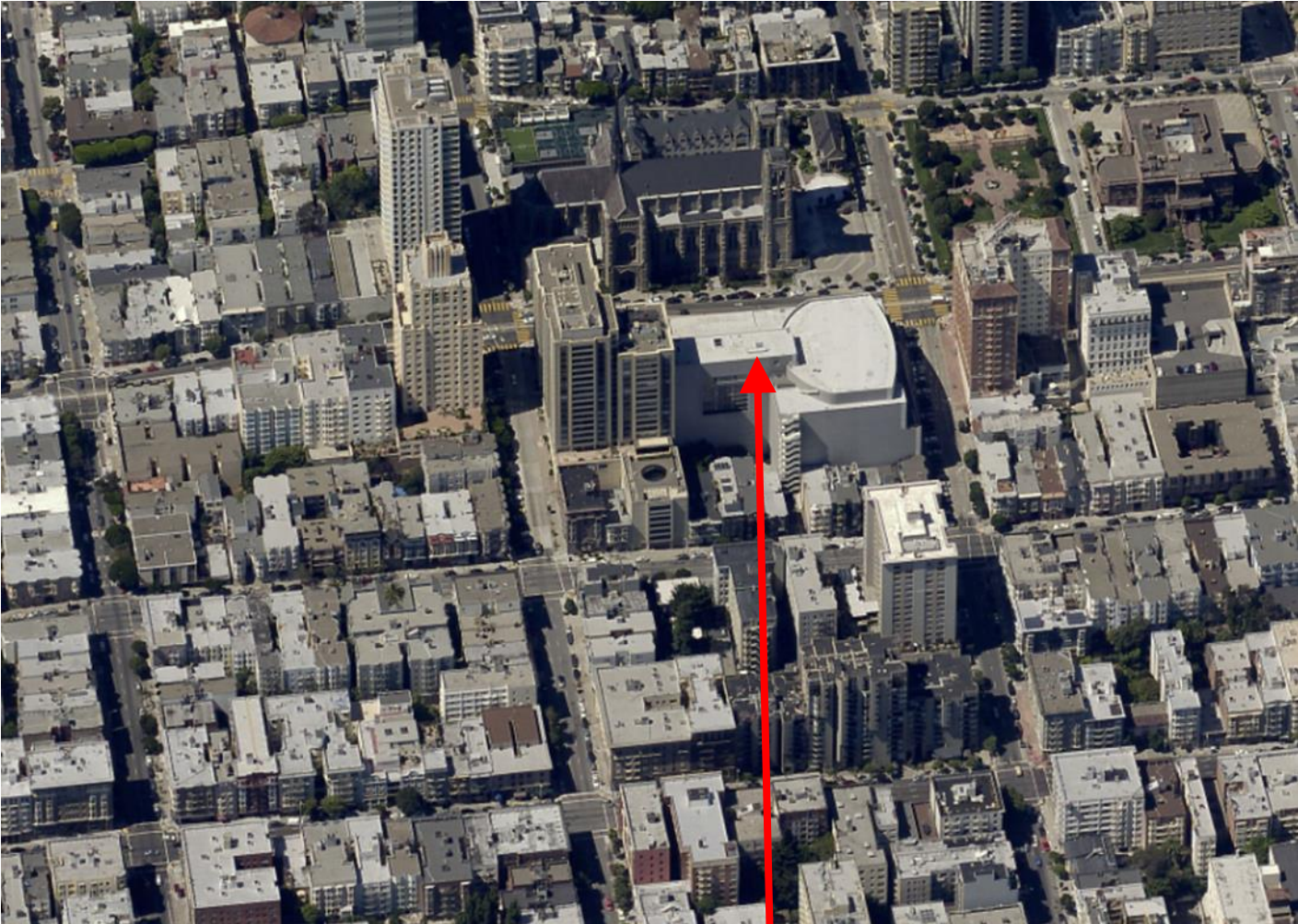


**SUBJECT PROPERTY**



Conditional Use Authorization  
Case Number 2021-004901CUA  
Macro Wireless Facility  
1111 California Street

# Aerial Photo – View 2

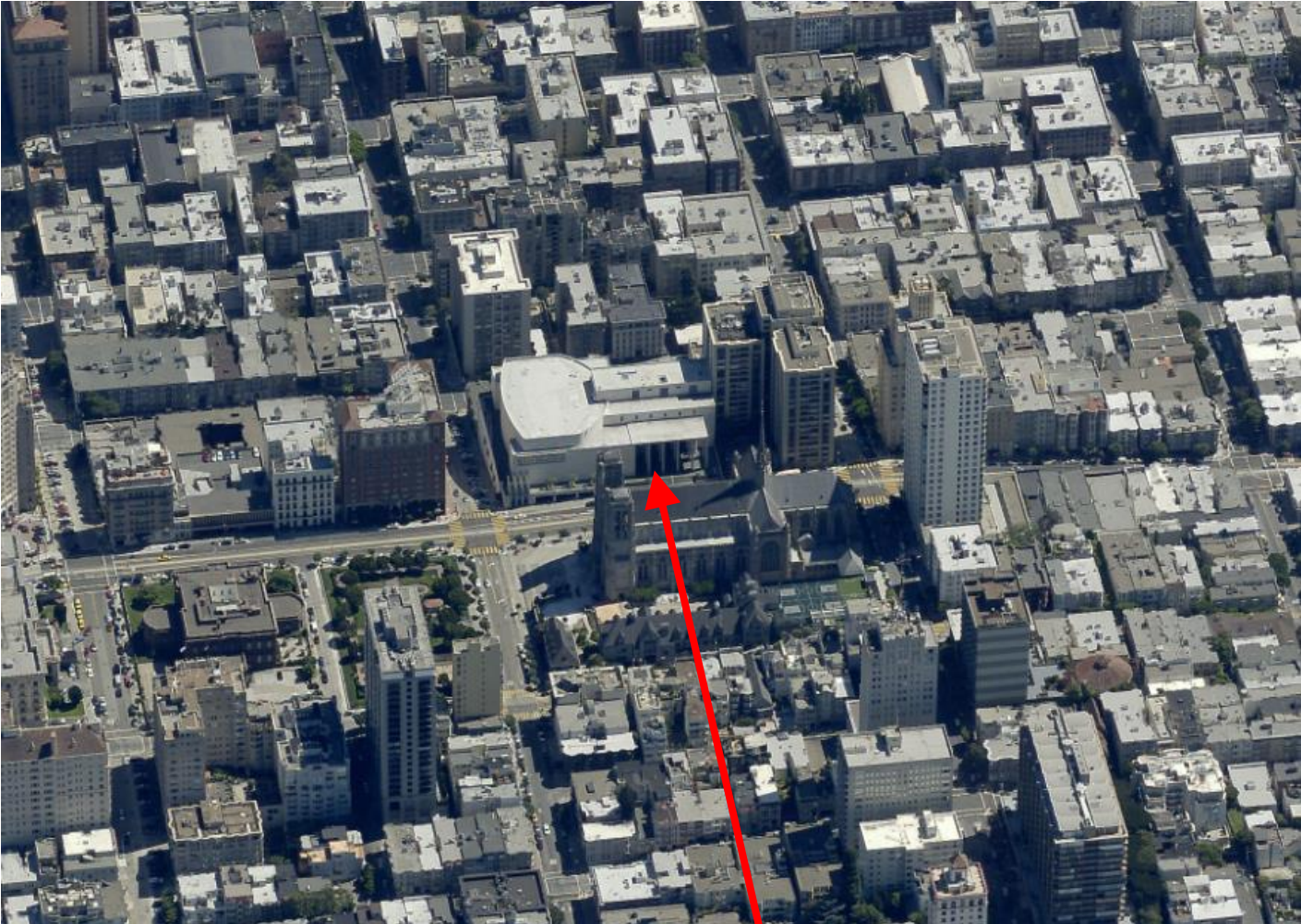


**SUBJECT PROPERTY**



Conditional Use Authorization  
Case Number 2021-004901CUA  
Macro Wireless Facility  
1111 California Street

# Aerial Photo – View 3

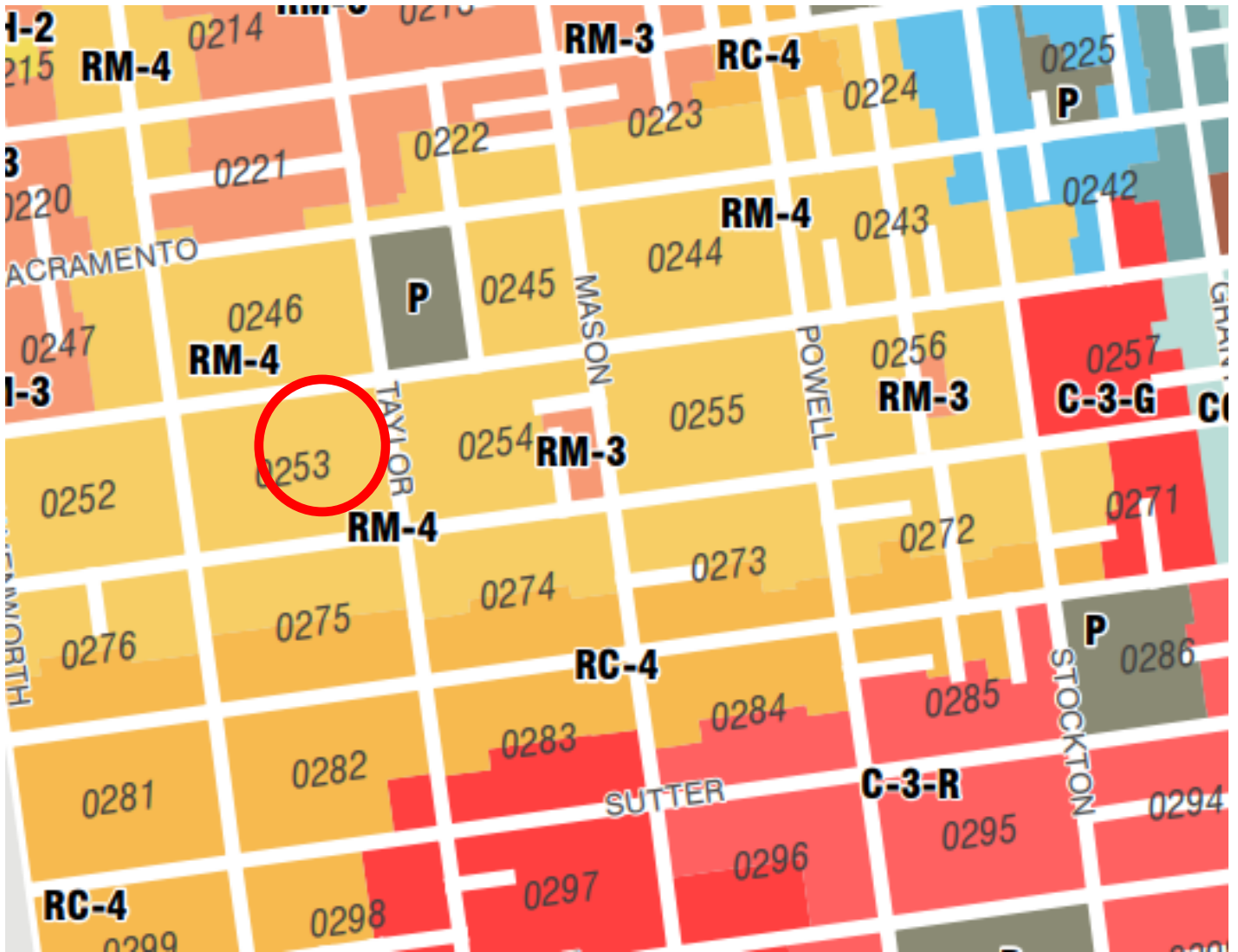


**SUBJECT PROPERTY**



Conditional Use Authorization  
Case Number 2021-004901CUA  
Macro Wireless Facility  
1111 California Street

# Zoning Map



Conditional Use Authorization  
Case Number 2021-004901CUA  
Macro Wireless Facility  
111 California Street

# Site Photo



Conditional Use Authorization  
Case Number 2021-004901CUA  
Macro Wireless Facility  
1111 California Street



**AT&T Mobility • Base Station No. CCL01751  
1111 California Street • San Francisco, California  
FA No. 10101199, USID No. 113784, PA No. 3701A0SWN3**

**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 proposed modifications to its existing base station (Site No. CCL01751) located at 1111 California Street 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 exposure limits set by the FCC are shown in Figure 1. The most restrictive limit for exposures of unlimited duration at several wireless service bands are as follows:

Wireless Service Band	Transmit Frequency	“Uncontrolled” Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm <sup>2</sup>	5.0 mW/cm <sup>2</sup>
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
CBRS (Citizens Broadband Radio)	3,550 MHz	1.0	5.0
BRS (Broadband Radio)	2,490	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
600 MHz	617	0.41	2.05
[most restrictive frequency range]	30–300	0.20	1.0

**Checklist**

Reference has been made to information provided by AT&T, including construction drawings by Intelocity, LLC, dated July 13, 2020. 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. Figure 2 describes the calculation methodologies, reflecting the facts that a directional antenna’s radiation pattern is not fully formed at locations very close by (the “near-field” effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the “inverse square law”). This methodology is an industry standard for evaluating RF exposure conditions and has been demonstrated through numerous field tests to be a conservative prediction of exposure levels.



**AT&T Mobility • Base Station No. CCL01751**  
**1111 California Street • San Francisco, California**  
**FA No. 10101199, USID No. 113784, PA No. 3701A0SWN3**

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

AT&T had installed one cylindrical antenna within a shroud above the main roof of the tall Masonic Auditorium located at 1111 California Street in San Francisco. Boundary stripes in yellow and red paint were observed behind the antenna, to indicate the possible presence of RF fields exceeding the applicable FCC public and occupational limits, respectively. Located elsewhere on the same building were similar antennas for use by Sprint and T-Mobile.

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.

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

AT&T proposes to replace its existing antenna with six directional panel 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 replace its existing Kathrein Model 800-10775 tri-directional antenna with six CommScope Model NNH4-65A-R6H4 4-foot-tall directional panel antennas. The antennas would employ up to 16° downtilt, would be mounted within a view screen enclosure at an effective height of about 81 feet above ground, 4 and 14 feet above the main and lower roofs, respectively, and would be oriented in groups of three toward 50°T\* and 300°T. Presently located high on the front face of the building are two directional panel antennas for use by T-Mobile, and high at the northeast corner of the penthouse is a directional panel antenna for use by Sprint.

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.

The maximum existing RF level measured<sup>†</sup> for a person on the main roof outside the marked areas was 11% of the applicable public exposure limit; levels exceeding the applicable occupational limit did not extend beyond the area outlined in red. The maximum existing RF level for a person at ground near the site was measured\* to be 0.00094 mW/cm<sup>2</sup>, which is 0.47% of the most restrictive public limit.

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\* Based upon information from AT&T received subsequent to the date of the drawings.

† February 25, 2020, using calibrated Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 and 25 Isotropic Electric Field Probes (Serial Nos. C-0010 and E-0001, respectively).

**AT&T Mobility • Base Station No. CCL01751**  
**1111 California Street • San Francisco, California**  
**FA No. 10101199, USID No. 113784, PA No. 3701A0SWN3**

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 would be 20,040 watts, representing simultaneous operation at 3,520 watts for WCS, 5,040 watts for AWS, 4,510 watts for PCS, 2,120 watts for cellular, and 4,850 watts for 700 MHz service. The maximum radiated powers for the other carriers are not known, although their contributions to existing exposure levels at ground are reflected in the measurements reported in Item 5 above.

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 due to the AT&T operation by itself is 70% of the public limit; this occurs at the 16-story condominium building located at 1177 California Street about 100 feet to the west. Due to the low powers of operation and the physical separation between the several antennas, the operations of the other carriers do not have a significant impact on RF exposure levels from the proposed AT&T operation in terms of compliance with the prevailing standard.

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 by itself is calculated to be 0.054 mW/cm<sup>2</sup>, which is 10% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to remain less than 11% of 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 95 and 41 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this includes areas of the main and lower roofs of the building but does not reach any publicly accessible areas.



**AT&T Mobility • Base Station No. CCL01751**  
**1111 California Street • San Francisco, California**  
**FA No. 10101199, USID No. 113784, PA No. 3701A0SWN3**

*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 locations, requiring passage through a locked door to access the roof, the AT&T antennas would not be accessible to unauthorized persons, and so no measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access to the main and lower roofs, including employees and contractors of the wireless carriers and of the property owner. No access within 41 feet directly in front of the AT&T antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that “Worker Notification Areas” be marked with yellow paint boundaries, that “Prohibited Access Areas” be marked with red paint boundaries, and that “Warning Areas” be marked with orange paint on the roof of the building, as shown in Figure 3, to identify areas within which exposure levels are calculated to exceed the FCC public limit, occupational limit, and ten times the occupational limit, respectively. It is recommended that explanatory signs<sup>‡</sup> be posted at the roof access door and at the marked areas, readily visible from any angle of approach to persons who might need to work within that distance. Similar measures should already be in place for the other carriers at the site; applicable mitigations for those carriers have not been determined as part of this study.

*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.

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<sup>‡</sup> Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (e.g., a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter; the San Francisco Department of Public Health recommends that all signs be written in English, Spanish, and Chinese.



### Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the proposed operation of the AT&T Mobility base station located at 1111 California Street 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. Training authorized personnel, marking roof areas, and posting explanatory signs are recommended to establish compliance with occupational exposure limits.



A handwritten signature in blue ink that reads "William F. Hammett". The signature is written over a horizontal line.

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

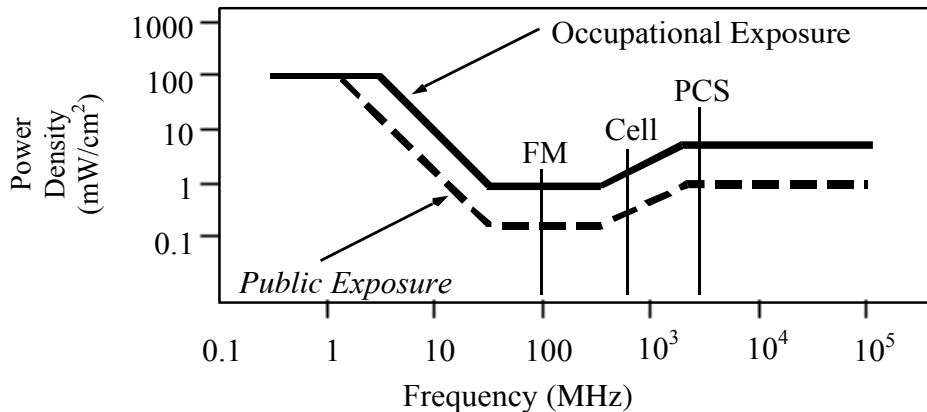
September 16, 2020

## FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (f is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm <sup>2</sup> )	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f<sup>2</sup></i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f <sup>2</sup>	<i>180/f<sup>2</sup></i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√f	<i>1.59√f</i>	√f/106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has incorporated those formulas in a computer program capable of calculating, at thousands of locations on an arbitrary grid, the total expected power density from any number of individual radio frequency sources. The program allows for the inclusion of uneven terrain in the vicinity, as well as any number of nearby buildings of varying heights, to obtain more accurate projections.



## RFR.CALC™ Calculation Methodology

### Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

#### Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density  $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$ , in mW/cm<sup>2</sup>,

and for an aperture antenna, maximum power density  $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$ , in mW/cm<sup>2</sup>,

where  $\theta_{BW}$  = half-power beamwidth of antenna, in degrees,

$P_{net}$  = net power input to antenna, in watts,

$D$  = distance from antenna, in meters,

$h$  = aperture height of antenna, in meters, and

$\eta$  = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

#### Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

power density  $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$ , in mW/cm<sup>2</sup>,

where  $ERP$  = total ERP (all polarizations), in kilowatts,

$RFF$  = three-dimensional relative field factor toward point of calculation, and

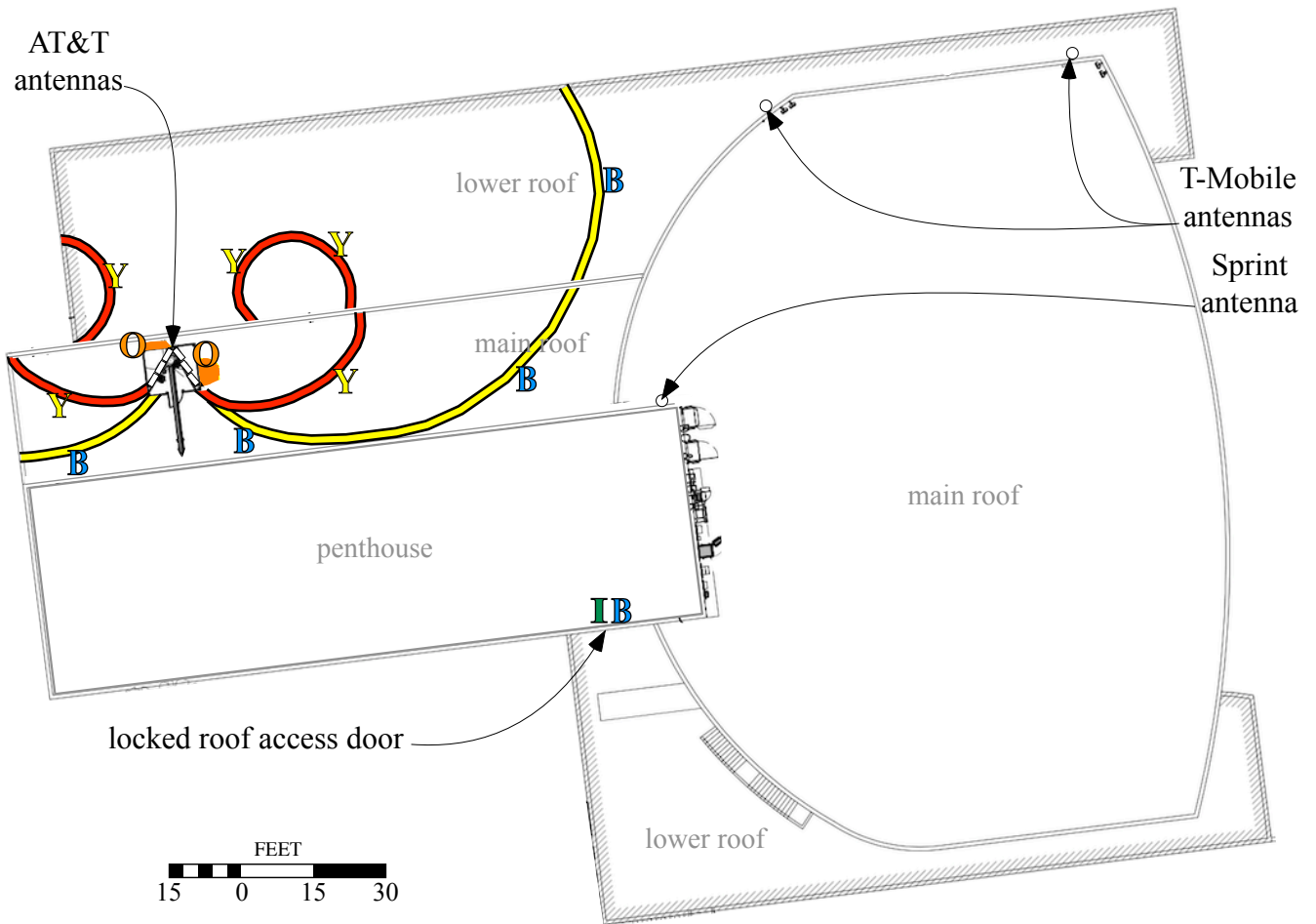
$D$  = distance from antenna effective height to point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula is used in a computer program capable of calculating, at thousands of locations on an arbitrary grid, the total expected power density from any number of individual radio frequency sources. The program also allows for the inclusion of uneven terrain in the vicinity, as well as any number of nearby buildings of varying heights, to obtain more accurate projections.

**Calculated RF Exposure Levels on Roof**

**Recommended Mitigation Measures**

- Mark lower and main roof areas with boundary stripes as shown
- Paint orange areas as shown
- Post explanatory signs
- Provide training



Notes: See text.  
 Base drawing by Intelocity, LLC, dated July 13, 2020.  
 Calculations performed according to OET Bulletin 65, August 1997.

<b>Legend:</b>	Less Than Public	Exceeds Public	Exceeds Occupational	Exceeds 10x Occupational
Boundary marking	N/A			
Painted area				
Sign type	<b>I</b> - Green INFORMATION	<b>B</b> - Blue NOTICE	<b>Y</b> - Yellow CAUTION	<b>O</b> - Orange WARNING







**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:** 1111 California St  
**Site ID:** 260                      **SiteNo.:** CNU1751                      **Report Dated:** 9/6/2018

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.

- 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: 4
- 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
- 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
- 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
- 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
- 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: 2970 Watts
- 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: 12 %  
Distance to this nearby building or structure: 100 feet
- 8. The estimated maximum cumulative radio frequency fields for the proposed site at ground level. (WTS-FSG, Section 10.5)  
Maximum RF Exposure: 0.0023 mW/cm<sup>2</sup>                      Maximum RF Exposure Percent: 0.4 %

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: 33

Occupational Exclusion Area

Occupational Exclusion In Feet: 14

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 4 antennas existing operated by AT&T Wireless, Sprint, and T-Mobile installed on the roof top of the building at 1111 California St. 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 upgrade its transmitting equipment. No changes will happen to the current antenna configuration. The antennas are mounted at a height of 83 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.0023 mW/sq cm., which is 0.4% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 33 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 14 feet of the front of the antennas while they are in operation. Due to its mounting location, requiring passage through a locked door to reach the roof, the AT&T antenna is not accessible to unauthorized persons. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access near the antenna, including employees and contractors of the wireless carriers and of the property owner. "Worker Notification Areas" shall be marked with a yellow paint stripe and that the boundary of two "Prohibited Access Areas" shall be marked with a red paint stripe on the main roof of the building, as shown in Figure 1 of the RF report, to identify the areas within which exposure levels are calculated to exceed the FCC public and occupational limits.

     **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: 10/30/2018

Signed: \_\_\_\_\_



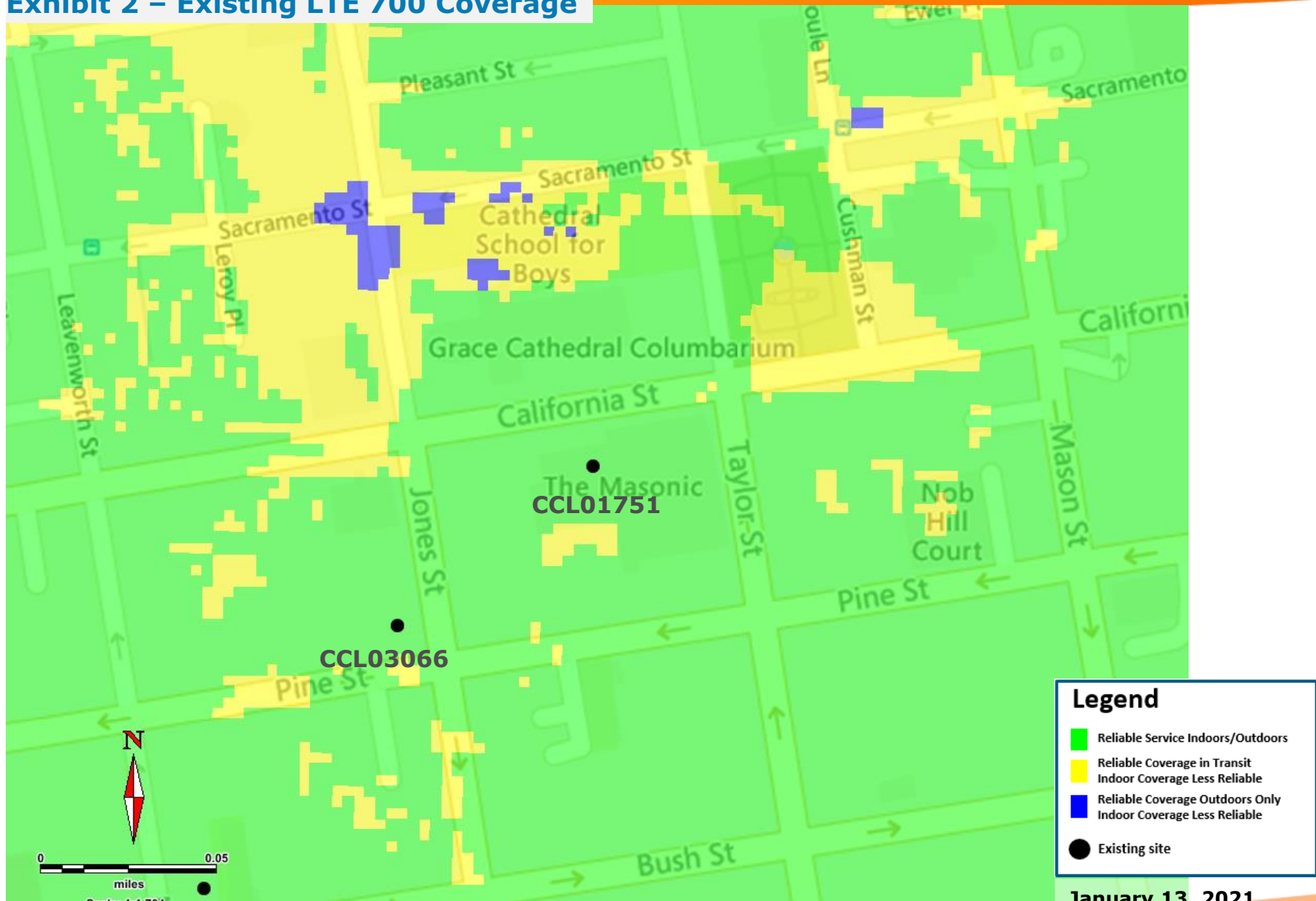
**Arthur Duque**

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

# **CCL03066 & CCL01751 Service Maps**

January 13, 2021

# Exhibit 2 – Existing LTE 700 Coverage

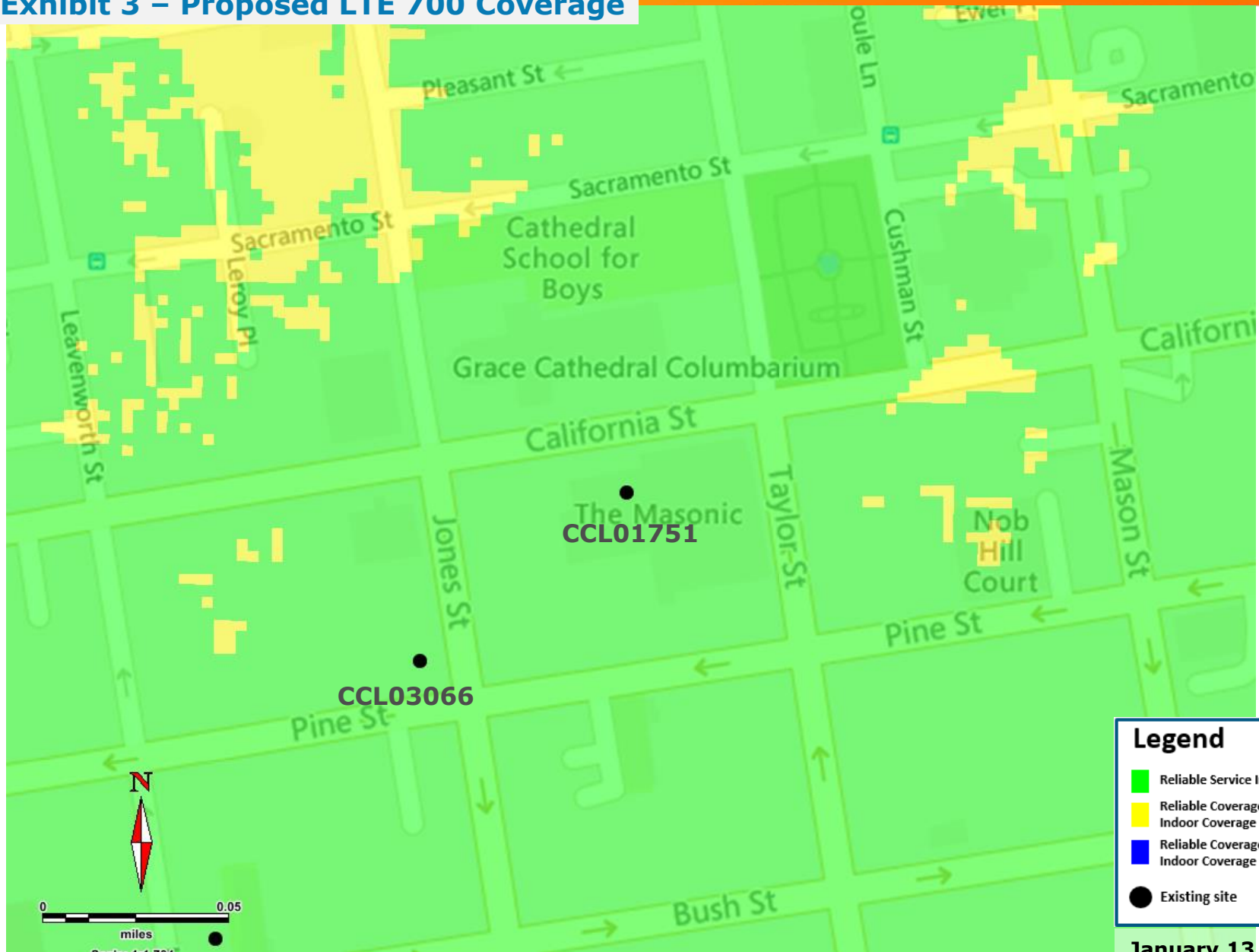


**Legend**

- Reliable Service Indoors/Outdoors
- Reliable Coverage in Transit  
Indoor Coverage Less Reliable
- Reliable Coverage Outdoors Only  
Indoor Coverage Less Reliable
- Existing site

January 13, 2021

# Exhibit 3 – Proposed LTE 700 Coverage



**Legend**

- Reliable Service Indoors/Outdoors
- Reliable Coverage in Transit  
Indoor Coverage Less Reliable
- Reliable Coverage Outdoors Only  
Indoor Coverage Less Reliable
- Existing site

January 13, 2021

## **Cumulative Effects & Equipment Specifications**

### **Number and Location of Proposed Antennas and Back-up Equipment:**

Antennas: Six (6) panel antennas to be mounted on the roof top within FRP box.

Equipment: One (N) (1) equipment cabinets to be located on the roof top.

### **Dimensions of Proposed Antennas and Back-up Equipment:**

Antenna array: 6 (N) 1 antennas approximately 59.01" tall x 19.6" wide x 7.8" deep

Battery back-up: 1 (N) cabinet approximately 72" tall x 32" wide x 39" deep

### **Height of Proposed Facility"**

Top of antennas:	±83' -6"
Top of FRP:	±86' - 0"
Height of building (parapet):	±77' - 0"
Height of building (roof top)	±98' - 10"
Height limit of district:	65'

### **List of Facilities per Building**

The proposed AT&T Mobility facility.

### **Power Rating for Proposed Base Station**

Power and Telco is supplied via basement power and telco panel.

### **Method of Attachment/ Screening**

The six (6) proposed panel antennas would be mounted on the roof top of an existing building within FRP box. The associated equipment cabinets would be located on the roof top.



**HAMMETT & EDISON, INC.**  
 CONSULTING ENGINEERS  
 BROADCAST & WIRELESS

WILLIAM F. HAMMETT, P.E.  
 RAJAT MATHUR, P.E.  
 ROBERT P. SMITH, JR.  
 ANDREA L. BRIGHT, P.E.  
 NEIL J. OLIJ, P.E.  
 BRIAN F. PALMER  
 M. DANIEL RO  
 NICHOLAS J. PETERS

BY E-MAIL CHET.ANDERSON@SMARTLINKGROUP.COM

March 4, 2021

Mr. Chet Anderson  
 Smartlink  
 360 Civic Drive, Suite C  
 Pleasant Hill, California 94523

ROBERT L. HAMMETT, P.E.  
 1920-2002  
 EDWARD EDISON, P.E.  
 1920-2009  
 DANE E. ERICKSEN, P.E.  
 CONSULTANT

Dear Chet:

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 its base station proposed to be located at 1111 California Street (Site No. CCL01751). 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 represent the carrier’s present and post-installation coverage.

Based on information provided by AT&T, including drawings by Intelocity, LLC, dated January 11, 2021, that carrier presently has one Kathrein Model 800-10775 tri-directional antenna within a shroud above the main roof of the tall Masonic Auditorium located at 1111 California Street. AT&T proposes to replace its existing antenna with six CommScope Model NNH4-65A-R6H4 4-foot-tall directional panel antennas. The antennas would employ up to 16° downtilt, would be mounted within a view screen enclosure at an effective height of about 81 feet above ground, 4 and 14 feet above the main and lower roofs, respectively, and would be oriented in groups of three toward 50°T and 300°T. The maximum effective radiated power proposed by AT&T in any direction would be 20,040 watts, representing simultaneous operation at 3,520 watts for WCS, 5,040 watts for AWS, 4,510 watts for PCS, 2,120 watts for cellular, and 4,850 watts for 700 MHz service.

AT&T provided for review two coverage maps, dated January 13, 2021, attached for reference. The maps show AT&T’s 4G LTE 700 MHz coverage in the area before and after the proposed modifications.\* Both the before and after maps show three levels of coverage, which AT&T colors and defines as follows:

- |        |  |
|--------|--|
| Green  | Reliable Service Indoors/Outdoors                              |
| Yellow | Reliable Coverage in Transit; Indoor Coverage Less Reliable    |
| Blue   | Reliable Coverage Outdoors Only; Indoor Coverage Less Reliable |

\* Including an upgrade to Site No. CCL03066, subject to a separate application.

Mr. Chet Anderson, page 2  
March 4, 2021

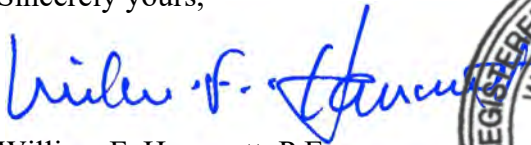
We undertook a two-step process in our review. As a first step, we obtained information from AT&T on the software and the service thresholds that were used to generate its coverage maps. This carrier uses commercially available software to produce the maps. The service thresholds that AT&T uses are in 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 4G LTE 700 MHz signal strength in the vicinity of the proposed site. Our fieldwork was conducted on February 12, 2021, between 4:00 PM and 5:05 PM, along a measurement route selected to cover all the streets within the map area that AT&T indicated would receive improved service.

Based on the measurement data, we conclude that the AT&T 4G LTE 700 MHz coverage map showing the service area without the proposed modifications includes areas of relatively weak signal levels in the carrier's present coverage. The map submitted to show the after coverage with the proposed base station in operation 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.

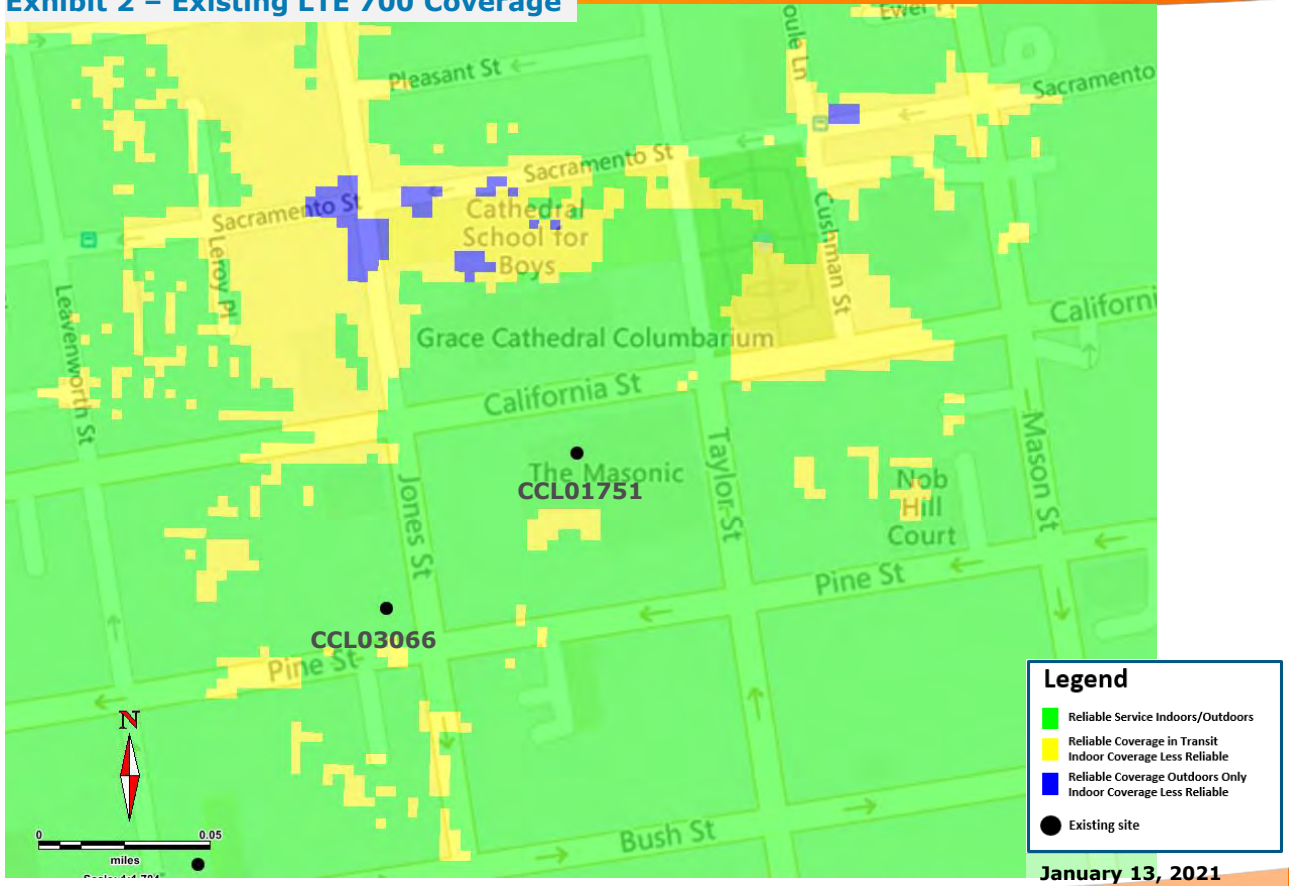
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Enclosures

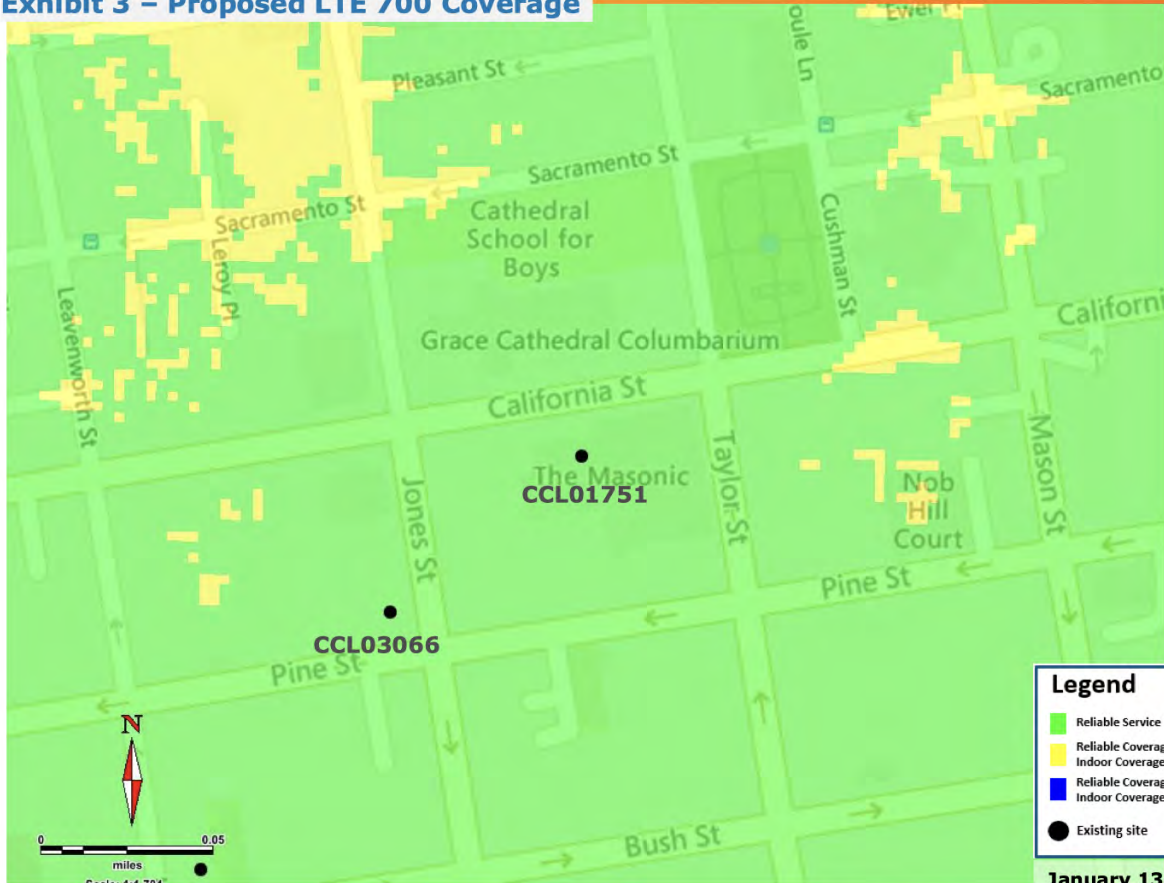




## Exhibit 2 – Existing LTE 700 Coverage



### Exhibit 3 – Proposed LTE 700 Coverage



**Legend**

- Reliable Service Indoors/Outdoors
- Reliable Coverage in Transit  
Indoor Coverage Less Reliable
- Reliable Coverage Outdoors Only  
Indoor Coverage Less Reliable
- Existing site

January 13, 2021

