Executive Summary Conditional Use Authorization

HEARING DATE: JUNE 20, 2013

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

Reception: 415.558.6378

Fax:

415.558.6409

Planning Information: 415.558.6377

Date: June 13, 2013
Case No.: 2012.0603C

Project Address: 1881 Post Street

Current Zoning: NC-3 (Neighborhood Commercial, Moderate Scale) District

Japantown District

65-A Height and Bulk District

Block/Lot: 0701/001

Project Sponsor: AT&T Mobility, represented by Christopher Fowler

On Air, LLC

14960 Karl Avenue

Monte Sereno, CA 95030

Staff Contact: Omar Masry – (415) 575-9116

Omar.Masry@sfgov.org

PROJECT DESCRIPTION

The proposal is to allow an AT&T Mobility wireless telecommunication services ("WTS") facility consisting of five facade-mounted antennas and related electronic equipment located on the rooftop of the subject building.

The proposed antennas would measure a maximum of 22" high by 7" wide by 3" thick. The proposed antennas would be placed at four separate locations on the parapet of the building, with the top of each antenna flush with the top of the adjacent parapet at a maximum of 82 feet above grade. The antennas would provide Wi-Fi service to AT&T Mobility users allowing for faster data access while reducing network congestion on traditional cellular systems (typically referred to as PCS, 3G, or 4G).

The site features an existing AT&T Mobility macro WTS facility composed of nine panel antennas mounted in a similar manner and location. The existing facility would remain in place and continue to provide traditional mobile coverage. Based on the existence of previously permitted WTS facilities (AT&T Mobility, Clearwire, Nextel, Sprint, and Verizon Wireless), the antennas are proposed on a Location Preference 2 Site (Co-Location).

SITE DESCRIPTION AND PRESENT USE

The building is located on Assessor's Block 0701, Lot 001 at the southeast corner of Fillmore and Post streets. This site is within an NC-3 (Neighborhood Commercial, Moderate Scale) Zoning, Japantown, and 65-A Height and Bulk Districts. The Project Site features a four-story, 79-foot tall, movie theater.

2

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The subject building is surrounded by NC-3 zoned properties and is a part of the Nihonmachi (translation: "Japan Town" or "Japan Street") Shopping Center, featuring a mix of retail and restaurant uses. The site is surrounded by public streets on three sides, including the grade-separated Geary Street corridor to the south. The surrounding (Fillmore / Japantown) neighborhoods generally consist of ground floor retail with housing above; that are two to four stories in height.

ENVIRONMENTAL REVIEW

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption. The categorical exemption and all pertinent documents may be found in the files of the Planning Department, as the custodian of records, at 1650 Mission Street, San Francisco.

HEARING NOTIFICATION

ТҮРЕ	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	May 31, 2013	May 31, 2013	20 days
Posted Notice	20 days	May 31, 2013	May 31, 2013	20 days
Mailed Notice	20 days	May 31, 2013	May 31, 2013	20 days

PUBLIC COMMENT

As of June 13, 2013, the Department has not received any comments from the public regarding the proposed Project. The Project Sponsor held a community meeting at the West Bay Conference Center, at 1290 Fillmore Street, to discuss the project on December 15, 2012 and there were no attendees. The Project Sponsor received one phone call from a resident inquiring as to whether the antennas would protrude above the roof of the building.

ISSUES AND OTHER CONSIDERATIONS

- Health and safety aspects of all wireless projects are reviewed under the Department of Public Health and the Department of Building Inspections.
- An updated Five Year Plan with approximate longitudinal and latitudinal coordinates of proposed locations, including the subject site is on file with the Planning Department.
- All required public notifications were conducted in compliance with the City's code and policies.

REQUIRED COMMISSION ACTION

Pursuant to Section 712.83 of the Planning Code, Conditional Use authorization is required for a WTS facility in a NC-3 District.

Executive Summary Hearing Date: June 20, 2013

BASIS FOR RECOMMENDATION

This project is necessary and/or desirable under Section 303 of the Planning Code for the following reasons:

- The Project complies with the applicable requirements of the Planning Code.
- The Project is consistent with the objectives and policies of the General Plan.
- The Project is consistent with the 1996 WTS Facilities Siting Guidelines, Planning Commission Resolution No. 14182 and Resolutions No. 16539 and No. 18523 supplementing the 1996 WTS Guidelines.
- Health and safety aspects of all wireless projects are reviewed under the Department of Public Health and the Department of Building Inspections.
- The expected RF emissions fall well within the limits established by the FCC.
- The project site is considered a Location Preference 2, (Co-Location) according to the Wireless Telecommunications Services (WTS) Siting Guidelines.
- Based on propagation maps provided by AT&T Mobility, the project will provide Wi-Fi coverage in an area that currently experiences several gaps in coverage and capacity.
- Based on the analysis provided by AT&T Mobility, the project will provide additional capacity in an area that currently experiences insufficient service during periods of high data usage.
- Based on independent third-party evaluation, the maps, data, and conclusions about service coverage and capacity provided by AT&T Mobility are accurate.
- The proposed antennas will be un-screened and painted to match the uppermost portion of the building facade. Given the height of the building and presence of a horizontal painted band along the roofline, the proposed antennas would not result in the creation of bulky projections that would interrupt visual harmony of the building in relation to the surrounding neighborhood. The new antennas would also be noticeably smaller than existing antennas for AT&T Mobility and other carriers at this location.
- The antenna placement at 82 feet above ground would comply with the building height provisions of the Planning Code, which allows antennas to exceed height limits (65-A Height and Bulk District). Furthermore, the proposed antennas would not create additional vertical massing, as they would not exceed the existing building height.
- The facility would continue to avoid intrusion into public vistas, avoid disruption of the architectural integrity of building and insure harmony with neighborhood character.
- The proposed project has been reviewed by staff and found to be categorically exempt from further environmental review. The proposed changes to the subject building do not result in a significant impact on the resource. The proposed antenna project is categorically exempt from further environmental review pursuant to the Class 3 exemptions of California Environmental Quality Act.
- A Five Year Plan with approximate longitudinal and latitudinal coordinates of proposed locations, including the subject site, was submitted.
- All required public notifications were conducted in compliance with the City's code and policies.

Executive Summary Hearing Date: June 20, 2013

RECOMMENDATION:		Approval with Conditions		
	Executive Summary	= = = = = = = = = = = = = = = = = = =	Project sponsor submittal	
	Draft Motion		Drawings: Proposed Project	
	Zoning District Map		Check for legibility	
	Height & Bulk Map		Photo Simulations	
	Parcel Map		Coverage Maps	
	Sanborn Map		RF Report	
	Aerial Photo		DPH Approval	
	Context Photos		Community Outreach Report	
	Site Photos		Independent Evaluation	
Exhibits above marked with an "X" are included in this packet om Planner's Initials				



SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)	
☐ Affordable Housing (Sec. 415)	☐ First Source Hiring (Admin. Code)
□ Jobs Housing Linkage Program (Sec. 413)	☐ Child Care Requirement (Sec. 414)
□ Downtown Park Fee (Sec. 412)	☐ Other

Planning Commission Motion No. XXXX

HEARING DATE: JUNE 20, 2013

 Date:
 June 13, 2013

 Case No.:
 2012.0603C

 Project Address:
 1881 Post St

Current Zoning: NC-3 (Neighborhood Commercial – Moderate-Scale) District

Japantown District

65-A Height and Bulk District

Block/Lot: 0701/001

Project Sponsor: AT&T Mobility, represented by Christopher Fowler

On Air, LLC

14960 Karl Avenue

Monte Sereno, CA 95030

Staff Contact: Omar Masry – (415) 575-9116

Omar.Masry@sfgov.org

ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 303(c) AND 712.83 TO INSTALL A WIRELESS TELECOMMUNICATIONS SERVICES FACILITY (WI-FI) CONSISTING OF FIVE FACADE MOUTNED PANEL ANTENNAS AND ASSOCIATED EQUIPMENT LOCATED ON THE ROOFTOP OF AN EXISTING FOUR-STORY MOVIE THEATER AS PART OF AT&T MOBILITY'S WIRELESS TELECOMMUNICATIONS NETWORK WITHIN AN NC-3 (NEIGHBORHOOD COMMERCIAL, MODERATE-SCALE) ZONING DISTRICT, JAPANTOWN, AND 65-A HEIGHT AND BULK DISTRICTS.

PREAMBLE

On May 8, 2012, AT&T Mobility (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for Conditional Use Authorization on the property at 1881 Post Street, Lot 001 in Assessor's Block 0701, (hereinafter "Project Site") to install a wireless telecommunications service facility consisting of five panel antennas mounted at four locations to the uppermost portion of the building facade, along with associated equipment located on the roof of an existing four-story movie theater. The Project would provide Wi-Fi (data) service, as part of AT&T Mobility's wireless telecommunications network within an NC-3 (Neighborhood Commercial, Moderate-Scale) Zoning District, Japantown, and 65-A Height and Bulk Districts.

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

Reception:

415.558.6378

Fax:

415.558.6409

Planning Information: 415.558.6377 Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 Categorical Exemption (Section 15303 of the California Environmental Quality Act). The Planning Commission has reviewed and concurs with said determination. The categorical exemption and all pertinent documents may be found in the files of the Planning Department (hereinafter "Department"), as the custodian of records, at 1650 Mission Street, San Francisco.

On June 20, 2013, the San Francisco Planning Commission (hereinafter "Commission") conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use authorization.

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 in Application No. 2012.0603C, 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. **Site Description and Present Use**. The building is located on Assessor's Block 0701, Lot 001 at the southeast corner of Post and Fillmore streets, and is bounded by Geary Boulevard to the south. This Project site is within an NC-3 (Neighborhood Commercial, Moderate Scale) Zoning District, Japantown, and 65-A Height and Bulk Districts. The Project Site contains a four-story movie theater, which is located at the western edge of the attached Nihonmachi Shopping Center. Currently there are macro antenna sites operated by AT&T Mobility, and other carriers on the building facades and rooftop.
- 3. Surrounding Properties and Neighborhood. The Project Site is located in Japantown. The subject building is surrounded by NC-3 zoned properties and is a part of the Nihonmachi (translation: "Japan Town" or "Japan Street") Shopping Center, featuring a mix of retail and restaurant uses. The project site is surrounded by public streets on three sides; including the grade-separated Geary Street corridor to the south. The site is surrounded by public streets on three sides, including the grade-separated Geary Street corridor to the south. The surrounding (Fillmore / Japantown) neighborhoods generally consist of ground floor retail with housing above; that are two to four stories in height.
- 4. **Project Description.** The proposal is to allow an AT&T Mobility wireless telecommunication services ("WTS") facility consisting of five facade-mounted Wi-Fi antennas located on the uppermost portion of the building facade, and related electronic equipment on the rooftop of the subject building.

CASE NO. 2012.0603C 1881 Post Street

Motion No. xxxx Hearing Date: June 20, 2013

The proposed antennas would measure a maximum of 22" high by 7" wide by 3" thick. The proposed antennas would be placed at four separate locations on the uppermost portions of the facade of the building, with the top of each antenna flush with the top of the adjacent parapet at a maximum antenna height of 82 feet above grade. The antennas would provide Wi-Fi service to AT&T Mobility users, allowing for faster data access while reducing network congestion on traditional cellular systems (typically referred to as PCS, 3G, 4G).

The site features an existing AT&T Mobility macro WTS facility composed of nine panel antennas mounted in a similar manner and location. The existing facility would remain in place and continue to provide traditional cellular coverage.

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

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

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

Based on the existence of previously permitted WTS facilities (AT&T Mobility, Clearwire, Nextel, Sprint, and Verizon Wireless), the antennas are proposed on a Location Preference 2 Site (Co-Location).

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)

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

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.

On June 20, 2013, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use authorization pursuant to Planning Code Section 712.83 to install a wireless telecommunications facility consisting of five facademounted antennas and related electronic equipment located on the rooftop of the subject building.

- 6. **Location Preference.** The WTS Facilities Siting Guidelines identify different types of zoning districts and building uses for the siting of wireless telecommunications facilities. Under the Guidelines, the Project is a Location Preference Number 2 Colocation Site as the Project Site is located in an NC-3 District on the top of an existing commercial building with existing macro WTS installations.
- 7. **Radio Waves Range.** The Project Sponsor has stated that the proposed wireless network is designed to address network congestion issues and will ease congestion by offloading data traffic from the voice network onto the Wi-Fi network. The network will offload data by radio waves operating in the 2,400 5,000 Megahertz (MHZ) bands, 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.
- 8. **Radiofrequency (RF) Emissions:** The Project Sponsor retained Hammett & Edison, Inc., 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.
- 9. **Department of Public Health Review and Approval.** The proposed project was referred to the Department of Public Health (DPH) for emissions exposure analysis. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There are similar antennas operated by AT&T Mobility, Clearwire, MetroPCS, Sprint, and Verizon at the site, but no other documented antennas within 100 feet of the site. AT&T Mobility proposes to install five new antenna for WiFi service. The antennas will be mounted at a height of approximately 79 feet above the ground. The estimated ambient RF field from the proposed AT&T Mobility

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

transmitters at ground level is calculated to be 0.00001 mW/sq. cm., which is 0.001% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends about 14 inches 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 three inches in front of the antenna while it is in operation.

- 10. Coverage and Capacity Verification. The maps, data, and conclusion provided by AT&T Mobility to demonstrate need for coverage and capacity have been determined by Hammett & Edison, and engineering consultant and independent third party to accurately represent the carrier's present and post-installation conclusions.
- 11. Maintenance Schedule. The proposed facility would operate without on-site staff but with a two-person maintenance crew visiting the property approximately once a month and on an asneeded basis to service and monitor the facility.
- 12. Community Outreach. Per the Guidelines, the Project Sponsor held a community meeting at the West Bay Conference Center, at 1290 Fillmore Street, to discuss the project on December 15, 2012 and there were no attendees. The Project Sponsor received one phone call from a resident inquiring as to whether the antennas would protrude above the roof of the building.
- 13. Five-year plan: Per the Guidelines, the Project Sponsor submitted an updated five-year plan, as required, in April 2013.
- 14. **Public Comment.** As of June 11, 2013, the Department has received no public comment on the proposed project.
- 15. 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 712.83, a Conditional Use authorization is required for the installation of Commercial Wireless Transmitting, Receiving or Relay Facility.
- 16. Planning Code Section 303 establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use approval. On balance, the project does comply 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.
 - i. Desirable: San Francisco is a leader of the technological economy; it is important and desirable to the vitality of the City to have and maintain adequate telecommunications coverage and data capacity. This includes the installation and upgrading of systems to keep up with changing technology and increases in usage. It is desirable for the City to allow wireless facilities to be installed.

Motion No. xxxx Hearing Date: June 20, 2013

The proposed project at 1881 Post 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 nature of the vicinity. While the placement of antennas will be visible from adjacent public rights-of-way, they are so located, designed, and treated architecturally to minimize their visibility from public places, avoid intrusion into public vistas, avoid disruption of the architectural design integrity of buildings, and insure harmony with the existing neighborhood character and public safety. The Project has been reviewed and determined to not cause the removal or alteration of any significant architectural features of the subject building.

ii. Necessary: In the case of wireless installations, there are two criteria that the Commission reviews: coverage and capacity.

Coverage: San Francisco does have sufficient overall wireless coverage (note that this is separate from carrier capacity). San Francisco's unique coverage issues are due to topography and building heights. The hills and buildings disrupt lines of site between WTS base stations. Thus, telecommunication carriers continue to install additional installations to make sure coverage is sufficient.

Capacity: While a carrier may have adequate coverage in a certain area, the capacity may not be sufficient. With the continuous innovations in wireless data technology and demand placed on existing infrastructure, individual telecommunications carriers must upgrade and in some instances expand their facilities network to provide proper data and voice capacity. It is necessary for San Francisco, as a leader in technology, to have adequate capacity.

The proposed project at 1881 Post Street is necessary in order to enhance Wi-Fi data capacity. Recent drive tests in the subject area conducted by the AT&T Mobility Radio Frequency Engineering Team provide that the subject property is the most viable 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:
 - Nature of proposed site, including its size and shape, and the proposed size, shape and arrangement of structures;

The Project must comply with all applicable Federal and State regulations to safeguard the health, safety and to ensure that persons residing or working in the vicinity will not be affected, and prevent harm to other personal property.

The Department of Public Health conducted an evaluation of potential health effects from Radio Frequency radiation, and has concluded that the proposed wireless transmission facilities will have

CASE NO. 2012.0603C 1881 Post Street

Motion No. xxxx Hearing Date: June 20, 2013

no adverse health effects if operated in compliance with the FCC-adopted health and safety standards.

ii. 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;

No increase in traffic volume is anticipated with the facilities operating unmanned, with a maintenance crew visiting the site once a month or on an as-needed basis.

iii. 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.

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

The antennas are visible from public rights-of-way; however their visual impact will be muted by painting the antennas to match the existing color band along the uppermost portion of the roof facade. Furthermore, the relatively narrow three-inch depth of the new antennas, and 22 inches in height, on a four story building, will ensure such antennas are not out of scale with the building.

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 Project is consistent with the purpose of Neighborhood Commercial districts in that the intended use is located on an existing building, approximately 80 feet tall, with existing antenna sites and the proposed antennas will not detract from the District's character.

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

HOUSING ELEMENT

BALANCE HOUSING CONSTRUCTION AND COMMUNITY INFRASTRUCTURE

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

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

POLICY 12.3 – Ensure new housing is sustainable supported by the City's public infrastructure systems.

The Project will improve AT&T Mobility's coverage and capacity along the Fillmore Street Neighborhood Commercial corridor and surrounding residential, commercial and recreational areas along a primary transportation route in San Francisco.

URBAN DESIGN

HUMAN NEEDS

OBJECTIVE 4 - IMPROVEMENT OF THE NEIGHBORHOOD ENVIRONMENT TO INCREASE PERSONAL SAFETY, COMFORT, PRIDE AND OPPORTUNITY.

POLICY 4.14 - Remove and obscure distracting and cluttering elements.

The Project design and location would be situated in a manner as to not appear cluttered or distracting. The placement of a five, 22-inch tall panel antennas on a four-story commercial building where such panels are painted to match the uppermost façade, and the substantial linear frontage of the theater will ensure the antennas do not introduce an unwelcome visual intrusion, nor appear out of character with the surrounding area.

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:

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

Policy 2:

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

The Project would 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 1:

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

Policy 3:

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

The site is an integral part of a enhanced 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 1:

Maintain and enhance a favorable business climate in the City.

Policy 2:

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

The Project would 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

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

OBJECTIVE 3:

ENSURE THE PROTECTION OF LIFE AND PROPERTY FROM THE EFFECTS OF FIRE OR NATURAL DISASTER THROUGH ADEQUATE EMERGENCY OPERATIONS PREPARATION.

Policy 1:

Maintain a local agency for the provision of emergency services to meet the needs of San Francisco.

Policy 2:

Develop and maintain viable, up-to-date in-house emergency operations plans, with necessary equipment, for operational capability of all emergency service agencies and departments.

Policy 3:

Maintain and expand agreements for emergency assistance from other jurisdictions to ensure adequate aid in time of need.

Policy 4:

Establish and maintain an adequate Emergency Operations Center.

Policy 5:

Maintain and expand the city's fire prevention and fire-fighting capability.

Policy 6:

Establish a system of emergency access routes for both emergency operations and evacuation.

The Project would 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.

- 18. **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 does comply 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.

No neighborhood-serving retail use would be displaced and the wireless communications network will enhance personal communication services.

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 would 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.

CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

The Project would have no adverse impact on housing in the vicinity.

Motion No. xxxx

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

Due to the nature of the Project and minimal maintenance or repair, municipal transit service would not be significantly impeded and neighborhood parking would 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 would cause no 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.

Compliance with applicable structural safety and seismic safety requirements would be considered during the building permit application review process.

G. That landmarks and historic buildings be preserved.

The subject site is not a landmark building and is not considered a potential historic resource.

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

The Project will have no adverse impact on parks or open space, or their access to sunlight or vistas.

- 19. 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.
- 20. The Commission hereby finds that approval of the Determination of Compliance authorization would promote the health, safety and welfare of the City.

CASE NO. 2012.0603C **Motion No. xxxx** Hearing Date: June 20, 2013 **1881 Post Street**

DECISION

The Commission, after carefully balancing the competing public and private interests, and based upon the Recitals and Findings set forth above, in accordance with the standards specified in the Code, hereby approves the Conditional Use authorization under Planning Code Sections 712.83 and 303 to install up to five panel antennas and associated equipment cabinets at the Project Site and as part of a wireless transmission network operated by AT&T Mobility on a Location Preference 2 (Preferred Location - Colocation Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines, within a NC-3 (Neighborhood Commercial - Moderate-Scale), Japantown, and 65-A Height and Bulk Districts, and subject to the conditions of approval attached hereto as Exhibit A.

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 No. xxxxx. The effective date of this Motion shall be the date of this Motion if not appealed (after the 30day 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.

I hereby certify that the foregoing Motion was adopted by the Planning Commission on June 20, 2013.

IONAS P. IONIN Acting Commission Secretary

AYES NAYS:

ABSENT:

ADOPTED: June 20, 2013

12

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

EXHIBIT A

AUTHORIZATION

This authorization is for a Conditional Use Authorization under Planning Code Sections 712.83 and 303, to install a wireless telecommunications services facility consisting of up to five panel antenna with related equipment, at a Location Preference 2 (Co-location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines, as part of AT&T Mobility's wireless telecommunications network within an, NC-3 Neighborhood Commercial (Moderate-Scale) District and a 65-A Height and Bulk District.

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 June 20, 2013 under Motion No. xxxxx.

PRINTING OF CONDITIONS OF APPROVAL ON PLANS

The conditions of approval under the 'Exhibit A' of this Planning Commission Motion No. xxxxx 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.

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

Conditions of Approval, Compliance, Monitoring, and Reporting

PERFORMANCE

1. Validity and Expiration. The authorization and right vested by virtue of this action is valid for three years from the effective date of the Motion. A building permit from the Department of Building Inspection to construct the project and/or commence the approved use must be issued as this Conditional Use authorization is only an approval of the proposed project and conveys no independent right to construct the Project or to commence the approved use. The Planning Commission may, in a public hearing, consider the revocation of the approvals granted if a site or building permit has not been obtained within three (3) years of the date of the Motion approving the Project. 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. The Commission may also consider revoking the approvals if a permit for the Project has been issued but is allowed to expire and more than three (3) years have passed since the Motion was approved.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, <u>www.sf-planning.org</u>.

2. **Extension.** This authorization may be extended at the discretion of the Zoning Administrator only where failure to issue a permit by the Department of Building Inspection to perform said tenant improvements is caused by a delay by a local, State or Federal agency or by any appeal of the issuance of such permit(s).

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, <u>www.sf-planning.org</u>.

DESIGN - COMPLIANCE AT PLAN STAGE

- 3. **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 415-575-9078, www.sf-planning.org.

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

4. 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:
- Antennas and back up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual effects;
- Rooftop installations shall be setback such that back up facilities are not viewed from the street;
- h. Antennas attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
- 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 415-575-6378, www.sfplanning.org.

MONITORING - AFTER ENTITLEMENT

- 5. 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 415-575-6863, <u>www.sf-</u> planning.org
- 6. Monitoring. The Project requires monitoring of the conditions of approval in this Motion. The Project Sponsor or the subsequent responsible parties for the Project shall pay fees as established under Planning Code Section 351(e) (1) and work with the Planning Department for information about compliance.
 - For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sfplanning.org
- 7. 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

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

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 415-575-6863, <u>www.sf-planning.org</u>.

8. Implementation Costs - WTS.

- a. 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.
- b. 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.
- c. 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 415-575- 6863, www.sf-planning.org
- 9. **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 415-575-6863, www.sf-planning.org
- 10. **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 nonholiday 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.

Motion No. xxxx CASE NO. 2012.0603C Hearing Date: June 20, 2013 1881 Post Street

- i. Notification and Testing. The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 2 and 4.
- ii. 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, <u>www.sfdph.org</u>.

- 11. **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 415-575-6863, <u>www.sf-planning.org</u>

12. **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 415-575-6863, <u>www.sf-</u> <u>planning.org</u>

13. **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, <u>www.sfdph.org</u>.

OPERATION

14. **Community Liaison.** Prior to issuance of a building permit application 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 written notice of the name, business address, and telephone number of the community liaison. Should the contact information change, the Zoning Administrator

CASE NO. 2012.0603C 1881 Post Street

Motion No. xxxx Hearing Date: June 20, 2013

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 415-575-6863, <u>www.sf-planning.org</u>

15. **Out of Service – WTS**. The Project Sponsor or Property Owner shall remove antennas 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 415-575-6863, <u>www.sf-planning.org</u>

16. **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, <u>www.sfdph.org</u>.

17. **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, <u>www.sfdph.org</u>.

- 18. **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 415-575-6863, <u>www.sf-planning.org</u>
- 19. **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

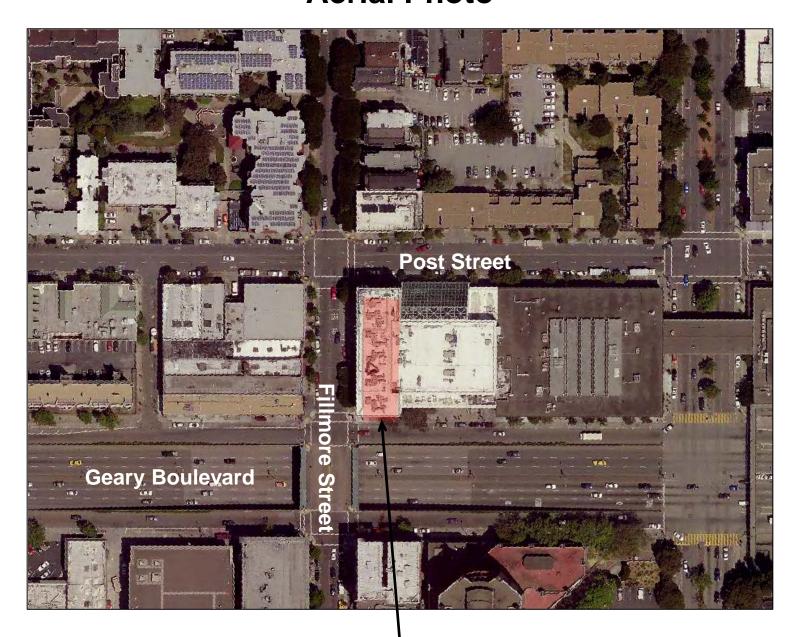
Zoning Map



SUBJECT PROPERTY



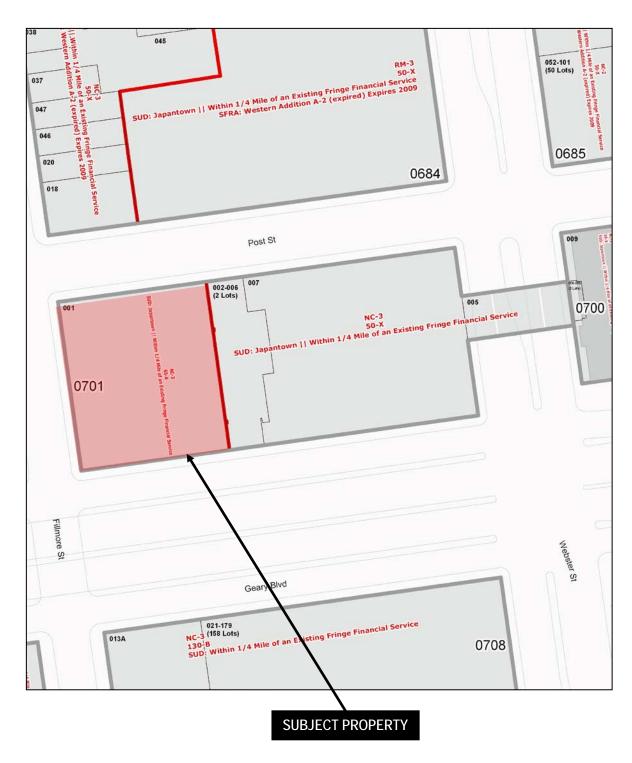
Aerial Photo



SUBJECT PROPERTY



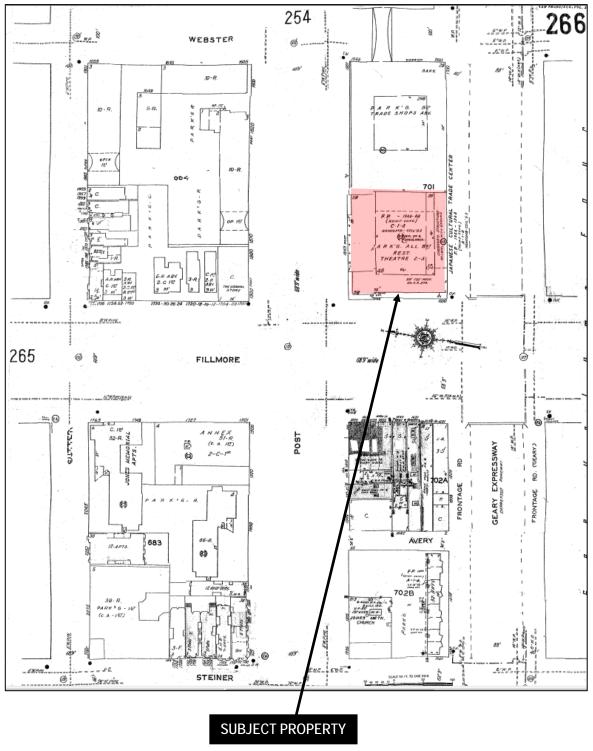
Parcel Map

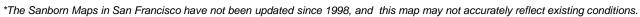




Case Number 2012.0603C AT&T Mobility (Wi-Fi) WTS Facility 1881 Post Street

Sanborn Map*





Case Number 2012.0603C AT&T Mobility (Wi-Fi) WTS Facility 1881 Post Street



Context Photos



Looking east along Post Street at Project Site

Context Photos



Looking west along Post Street at Project Site

Site Photos



Looking south along Fillmore Street at Project Site

Site Photos



Looking north along Fillmore Street at Project Site













AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

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. CNU0077) located at 1881 Post 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 a 10-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such facilities with prevailing safety standards. The acceptable limits set by the FCC for exposures of unlimited duration are:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000-80,000 MHz	5.00 mW/cm^2	1.00 mW/cm^2
WiFi	2,400-5,000	5.00	1.00
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radi	o) 855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency rang	ge] 30–300	1.00	0.20

The site was visited by Mr. David Kelly, a qualified field technician contracted by Hammett & Edison, Inc., during normal business hours on January 24, 2012, a non-holiday weekday, and reference has been made to information provided by AT&T, including construction drawings by HMH Design Group, dated January 17, 2012.

Checklist

1. The location of all existing antennas and facilities at site. Existing RF levels.

AT&T had installed nine directional panel antennas – five Andrew Model TBXLHB-6565A-VTM, three Andrew Model DBXNH-6565A-R2M, and one Kathrein Model 742-264 – on the roof parapet above the Kabuki Theater, located at 1881 Post Street. Similar antennas were observed on the building for use by Clearwire, Sprint Nextel, and Verizon Wireless.

Existing RF levels for a person at ground near the site were less than 1% of the most restrictive public exposure limit. The measurement equipment used was a Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 Isotropic Electric Field Probe (Serial No. F-0034). The meter and probe were under current calibration by the manufacturer.



AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas.

No other WTS facilities are reported to be approved for this site but not installed.

3. The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.

There were no other WTS facilities observed within 100 feet of the site.

4. <u>Location (and number) of Applicant's antennas and back-up facilities per building and location (and number) of other WTS at site.</u>

AT&T proposes to install five BelAir Networks Model BNCKG0086 directional panel antennas on the roof parapet near its existing antennas. The new WiFi antennas would be mounted with 2° downtilt at an effective height of about 79 feet above ground.

5. <u>Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to application.</u>

The expected operating power of the AT&T transmitters is reflected in the resulting effective radiated power given in Item 6 below; the transmitters may operate at a power below their maximum rating. The maximum power ratings of the other carriers' transmitters are not known.

6. <u>Total number of watts per installation and total number of watts for all installations at site.</u>

The maximum effective radiated power proposed by AT&T for the WiFi operation is 16 watts. The reported maximum power for the existing base station is 6,910 watts, representing simultaneous operation at 1,820 watts for AWS, 2,890 watts for PCS, 1,420 watts for cellular, and 780 watts for 700 MHz service. The number of watts for the other carriers are not known.

7. Plot or roof plan showing method of attachment of antennas, directionality of antennas, and height above roof level. Discuss nearby inhabited buildings.

The drawings show the proposed antennas to be installed as described in Item 4 above. There were noted taller buildings to the south, across Geary Boulevard.

8. <u>Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.</u>

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T WiFi operation is calculated to be less than 0.00001 mW/cm², *i.e.*, below the sensitivity of typical field meters. Ambient RF levels at the site are therefore estimated to remain below 1% of the limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend no more than 14 inches out from the antenna faces and to much lesser distances above, below, and to the sides.



AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

9. <u>Describe proposed signage at site.</u>

Due to their mounting locations, the AT&T antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The FCC occupational limit is calculated to be reached only within 3 inches directly in front of the antennas themselves, so operation as proposed can be considered intrinsically compliant with FCC guidelines and no mitigation measures are required. It is recommended that small explanatory warning signs* be posted at or on the antennas, to comply with City of San Francisco directives.

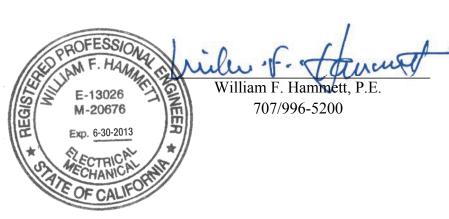
10. Statement of authorship.

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, 2013. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the proposed AT&T WiFi antennas at 1881 Post 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.

March 22, 2012



Warning signs should comply with OET-65 color, symbol, and content recommendations. The San Francisco Department of Public Health has accepted the use of diamond signs in English at 2 inches on a side.



HAMMETT & EDISON, INC. CONSULTING ENGINEERS

SAN FRANCISCO



Edwin M. Lee, Mayor Barbara A. Garcia, MPA, Director of Health

Rajiv Bhatia, MD, MPH, Director of EH

Review of Cellular Antenna Site Proposals

Proje	ect Sponsor: $AT&T$	Wireless	Planner:	Jonas Ionin	
RF E	Engineer Consultant:	Hammett and Ed	lison	Phone Number:	(707) 996-5200
Proje	ect Address/Location:	1881 Post St			
Site 1	ID: <u>121</u>	SiteNo.:	CNU0077		_
infor Teled In or	following information is remation requirements are e communications Services der to facilitate quicker ap document before submitting	stablished in the San Facility Siting Guide proval of this projec	Francisco Planning D Elines dated August 19 t, it is recommended th	epartment Wireless 96. aat the project spons	
X	1. The location of all exist	ting antennas and fac	cilities. Existing RF lev	vels. (WTS-FSG, Se	ection 11, 2b)
	✓ Existin	ng Antennas No Ex	xisting Antennas: 35		
	2. The location of all appr approved antennas. (WTS			ties. Expected RF le	evels from the
<u>X</u>	3. The number and types of EMR emissions at the pro	of WTS within 100 f posed site. (WTS-FS	eet of the proposed site SG, Section 10.5.2)	e and provide estima	ates of cumulative
	4. Location (and number) location of other telecomm				
	5. Power rating (maximum equipment subject to the a			sting and proposed	backup
	Maximum Power Ra				
	6. The total number of wa building (roof or side) (W			watts for all installa	tions on the
	Maximum Effective Radi	ant: 6910 watts.			
	7. Preferred method of attaplan. Show directionality				
	buildings (particularly in	direction of antennas	(WTS-FSG, Section	10.41d)	
<u>X</u>	8. Report estimated ambie perimeter where the FCC	standards are exceed	led.) (WTS-FSG, Secti		
	and power density exposu				
	Maximum RF Exposure:		/cm ² Maximum RF Expo		
<u>X</u>	9. Signage at the facility is equipment as may be required Discuss signage for those	ired by any applicab	ole FCC-adopted stand		
	✓ Public_Exclusion_		Public Exclusion In Fe	eet: 2	
	✓ Occupational_Exc	lusion Area	Occupational Exclusion	on In Feet: 0	_

- **X** 10. Statement on who produced this report and qualifications.
- 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 1986-NCRP Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.

Comments:

There are 9 antennas operated by AT&T Wireless installed on the roof top of the building at 1881 Post Street. Exisiting RF levels at ground level were around 1% of the FCC public exposure limit. There were observed similar antennas operated by Clearwire (5), Sprint (15) and Verizon (6) at this location but no other antennas are within 100 feet of this site. AT&T Wireless proposes to install 5 new WiFi antennas. The antennas are mounted at a height of 79 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.00001 mW/sq cm., which is 0.001 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends about 14 inches 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. Worker should not have access to within 3 inches of the front of the antennas while they are in operation.

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 S₁

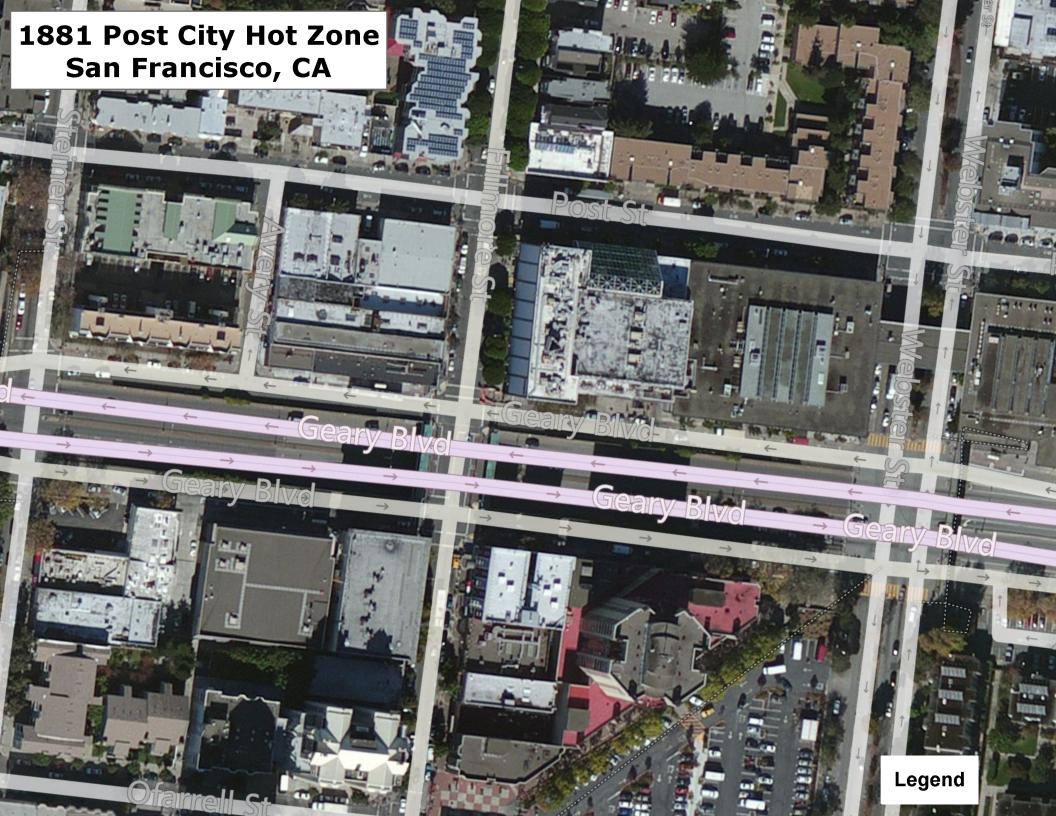
Dated: 3/28/2012

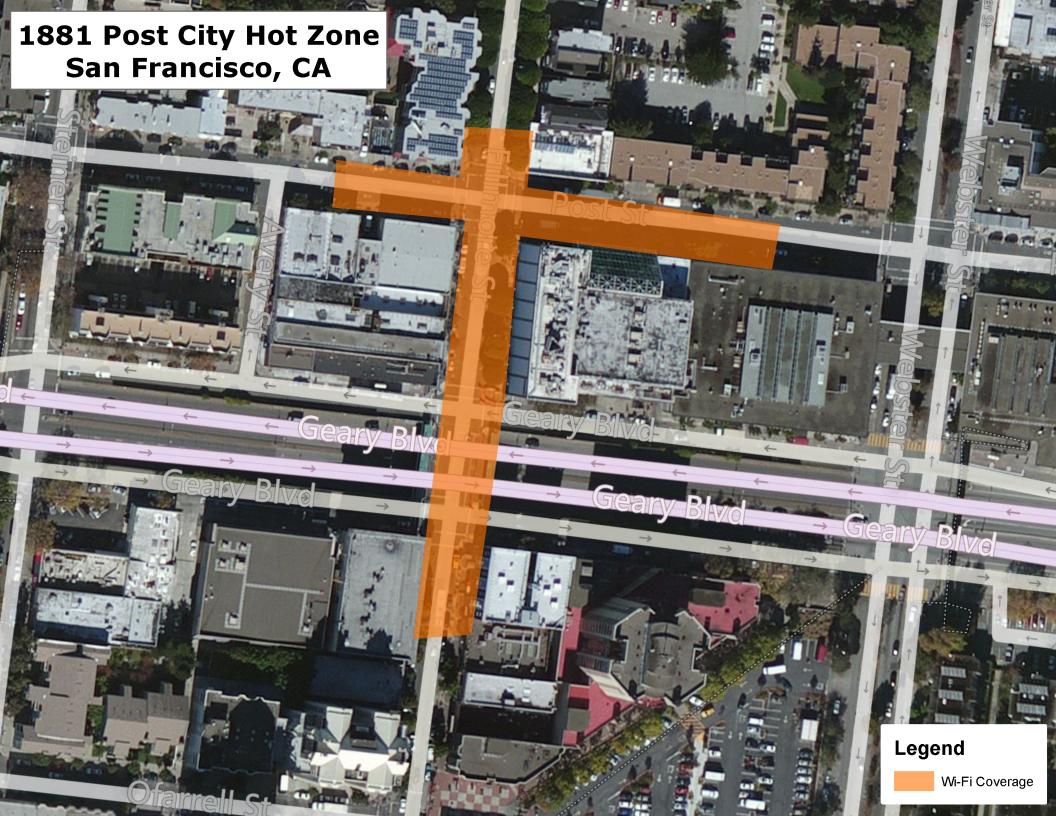
Signed:

Patrick Fosdahl

Environmental Health Management Section San Francisco Dept. of Public Health 1390 Market St., Suite 210, San Francisco, CA. 94102 (415) 252-3904

Fosdel









AT&T WiFi Project 1881 Post Street, San Francisco, CA

Project Summary

The objective of this project is to improve wireless communications capacity and reliability in the Fillmore neighborhood and Japan Town area where network reliability is affected due to the high volumes of network traffic – primarily data traffic. The increased data traffic is due to the increased use of smart phones, especially in areas where a large number of people gather such as along Fillmore Street and Post Street with their many shops and thriving nightlife. The result is an overloaded network. In order to alleviate this condition, AT&T is planning to divert data traffic onto a WiFi network that is being built in areas prone to this problem. This will reduce the number of dropped voice calls that result when data and voice traffic are routed over the same network.

Tel: 707 933-9633 Fax: 707 933-9611 www.onairllc.com

COMMUNITY OUTREACH MEETING

Wi-Fi Project: Japantown Date: December 15, 2012 10:00 am

	Name	Address	Email Address	Phone Numbe
1				
2	, 1			
3				
4				
5				
6				
7				
8				
9				
.0				
.1				
2				
3				

14

Summary of discussion from the Pre-Application Meeting

Meeting Date: December 15, 2012

Meeting Time: 10:00 AM

Meeting Address: 1290 Fillmore Street Project Address: 1881 Post Street

Property Owner Name: MKD Kabuki Center, LLC

Project Sponsor/Representative: David Hiatt - On Air, LLC

Please summarize the questions/comments and your response from the Pre-Application meeting in the space below. Please state if/how the project has been modified in response to any concerns.

Question/Concern #1 by (name of concerned neighbor/neighborhood group): Peggy Bramer (Dec. 4 th phone call) – Member of a homeowner's assoc. – Will the antenna protrude above the roof of the building?
Project Sponsor Response: No, the antenna will be located on the side of the bldg, just below the roof and will be painted to match the building.
Question/Concern #2
Project Sponsor Response:
Project Sponsor Comments: No changes were required based on the neighborhood meeting.



BY E-MAIL DHIATT_ONAIR@YAHOO.COM

May 4, 2012

Mr. David Hiatt On Air, LLC 465 First Street West, Suite 101 Sonoma, California 95476

Dear Mr. Hiatt:

WILLIAM F. HAMMETT, P.E.
DANE E. ERICKSEN, P.E.
STANLEY SALEK, P.E.
ROBERT P. SMITH, JR.
RAJAT MATHUR, P.E.
KENT A. SWISHER
IVETTA PETUKH
ANDREA L. BRIGHT
KHOA M. PHAN

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

As you requested, we have reviewed the proposal by AT&T to install a new WiFi base station at 1881 Post Street in San Francisco (Site No. CNU0077). The San Francisco Planning Department includes among its submittal requirements the following:

C. Coverage & Capacity Data Evaluation;

An independent evaluation of maps, data, and conclusions about service coverage and capacity submitted by the wireless service provider to a professional engineer, licensed by the State of California and selected from a list provided by the Planning Department; wet stamped and signed.

Executive Summary

We concur with the maps, data, and conclusions provided by AT&T. The site as proposed will provide the coverage sought and will coordinate with the adjacent site proposed by AT&T.

Based on the information provided by AT&T, including its Service Area Definition Statement, its coverage maps, and drawings by HMH Design Group, dated January 17, 2012, that carrier is proposing to mount five BelAir Model BNCKG0086 directional panel antennas on the roof parapet near its existing antennas, in order to provide WiFi service in 2.4 and 5 GHz bands to its subscribers along Fillmore Street to the north and south and Post Street to the east and west. Operation in these bands is not individually licensed by the FCC, which means that they are open for use by any party, whether for short point-to-point data links, for wireless microphones and other localized use, and for Internet connectivity, as is observed at many coffee shops and other retail establishments. AT&T's proposed use is the latter, with phone, tablet, and computer connectivity to be provided to AT&T customers within the short service distance available at these microwave frequencies.

We appreciate the opportunity to perform this review. Please let us know if any questions arise on this matter.

6-30-2013

Sincerely yours,

William F. Hammett, P.E.

e-mail: bhammett@h-e.com

Delivery: 470 Third Street West • Sonoma, California 95476

Telephone: 707/996-5200 San Francisco • 707/996-5280 Facsimile • 202/396-5200 D.C.



4430 ROSEWOOD DRIVE PLEASANTON, CA. 94588

SITE NUMBER: CNU0077 SF JAPAN TOWN SITE ADDRESS: 1881 POST STREET SAN FRANCISCO, CA

DIRECTIONS		PROJECT INFORMATION
Depart 4430 Rosewood Dr, Pleasanton, CA 94588 0.5 mi Turn RIGHT (North-West) onto Owens Dr 0.2 mi Turn RIGHT (North-East) onto Hacienda Dr 0.3 mi Take Ramp (RIGHT) onto 1-580 27.5 mi 1-580/Oakland	SCOPE OF WORK:	INSTALL WI-FI ANTENNAS AT LOCATIONS SHOWN ON THESE PLANS INSTALL RELATED WI-FI EQUIPMENT WITHIN EXISTING AT&T EQUIPMENT AREAS IN THE EXISTING AT&T BASEMENT EQUIPMENT ROOM.
Take Ramp (LEFT) onto I—80 0.9 mi I—80/San Francisco Take Ramp (RIGHT) onto I—80 5.9 mi Turn RIGHT onto Ramp 0.5 mi Fremont St Turn LEFT (North—West) onto Fremont St,	SITE ADDRESS:	1881 POST STREET SAN FRANCISCO, CALIFORNIA SAN FRANCISCO COUNTY
then immediately turn LEFT onto Howard St 0.5 mi Turn RIGHT (North—West) onto 3rd St 0.3 mi Road name changes to Kearny St 32 yds Turn LEFT (West) onto Geary St 1.0 mi	PROPERTY OWNER:	MKD KABUKI CENTER, LLC, C/O VERITAS PROPERTY MANAGEMENT 1700 SOSCOL AVENUE #7 NAPA, CA. 94559
Road name changes to Geary Blvd 0.5 mi Turn RIGHT (North) onto Webster St 87 yds Turn LEFT (West) onto Post St 142 yds	CONTACT PERSON:	CHRIS FOWLER (650) 888-0809
Arrive 1881 Posť St, San Francisco, ČA 94115	APPLICANT:	AT&T WIRELESS SERVICES, INC. 4430 ROSEWOOD DRIVE BLDG. 3, 6th FLOOR PLEASANTON, CA 94588
VICINITY MAP	JURISDICTION:	CITY OF SAN FRANCISCO
Bush St. St. Be B	A.P.N.:	BLOCK 0701, LOT 01; BLOCK 0701, LOT 02
age Row St.	CONST. TYPE:	I, SPRINKLERED
Sutter St		T. PLAN CHECK NOTE

O'Farrell St T

Hamilton Recreation Center

> Raymond Kimball



THESE PLANS COMPLY WITH S.F.D. ADMINISTRATIVE BULLETINS 2.06 "SUBMITTAL REQUIREMENTS FOR CELLULAR ANTENNA SITES"

SITE QUALIFICATION PARTICIPANTS

	<u>NAME</u>	<u>COMPANY</u>	PHONE NUMBER
SAC	CHRIS FOWLER	ON-AIR LLC	(650) 888-0809
A/E	ART HOWLETT	HMH DESIGN GROUP LLC.	(707) 448-8011

GENERAL NOTES

- 1. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 2. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS
- 6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 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 OWNER.
- 9. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- O. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. 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 WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- 11. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED 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.
- 12. 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.
- 13. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 14. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 15. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 16. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 17. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 18. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- 19 SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

DRAWING INDEX	REV.
---------------	------

CNU0077 T-1	TITLE SHEET	7
CNU0077 T-2	SF FD CHECKLIST	7
CNU0077 T-3	EMF REPORT	7
CNU0077 T-4	SIGNAGE	7
CNU0077 A-1	SITE PLAN	7
CNU0077 A-2	EQUIPMENT & ANTENNA PLAN	7
CNU0077 A-3	ELEVATION	7
CNU0077 A-4	ELEVATION	7
CNU0077 A-5	ELEVATION	7
CNU0077 A-6	ELEVATION	7
CNU0077 A-7	CUTSHEETS	7
CNU0077 A-8	DETAILS	7
CNU0077 E-1	SINGLE LINE DIAGRAM	7

	\ L V .	ווביי ווהם	
	0	5/30/11	FOR REVIEW
	l	11/50/9	PER COMMENTS
	2	6/23/11	PER COMMENTS
Ъ	2	9/20/11	ADD CLUSTERS
01	4	1/11/12	ADD NEMA CABINETS
δα/ 8011	9	4/11/12	FOR PERMIT
-	9	6/30/12	CITY COMMENTS
	7	02/26/13	REVISE TO AC POWER

HIMHH
DESIGN GROUP
5164 FRY ROAD
VACAVILLE, CA. 9568
PHONE: 707-448-80
FAX: 448-8190

AT&T Site Name.	AT&T Site Name. SF JAPAN TOWN
AT&T Site ADDRESS	1881 POST STREET AT&T Site ADDRESS SAN FRANCISCO, CA 94115
HMH Project No.	011085
Date	05/30/11
DRAWN	PAM





TITLE
SHEET

T-1

2.06 Submittal Requirements for Cellular Antenna Sites

REFERENCE: 2010 SFBC, 2010 SFFC, 2010 SFMC and FCC OET Bulletin 65 (97-01)

- 1. Provide a description of work on the plans.
- 2. Plans shall include plan views and elevations showing all equipment locations and cable runs.
- 3. Plans shall include antenna cut-sheets and equipment list on a drawing sheet.
- 4. 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).
- 5. 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.
- 6. Drawings shall reflect the striped/exclusion areas for workers per the above RF Report with a minimum radius of 1 foot.
- 7. 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.).
- 8. "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)
- 9. Camouflaged antennas shall have 4inch x 4inch signage permanently mounted to the exterior of 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.
- 10. Cables/wiring shall not be allowed in exit enclosures, smoke-proof towers, elevator shafts, or in front of dry standpipes. 2010 CFC 1022.4 and 509.2
- 11. 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.
- 12. There is no guarantee that the fire department will not shut down the power to the site in an emergency situation although in order to reduce the site operator's possible loss of service the following information may be provided at the equipment room entrance:
- Provide emergency shutdown procedure signage. The sign shall include the

- 1. Emergency 24 hour/7 day a week NOC / field technician telephone number for RF shut-down
- 2. Cell site identification number
- 3. Map to location of electrical main electrical main shall be clearly identified with a permanent red label and white lettering.
- 4. Map to location of battery cabinets and breakers cabinets and breakers shall be clearly identified with a permanent red label and white lettering.
- 5. Any other relevant information or procedures as required for the individual cellular site.
- 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" high white lettering. Multiple signs may need to be installed based upon the cellular site configuration.
- A copy of the signage shall be included on a drawing sheet. See attached sample.

For further Information see the FCC website: http://www.fcc.gov/oet/rfsafety



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-XXX-XXXX

SITE IDENTIFICATION NUMBER: XXXXXXX

2) DISCONNECT POWER AT MAIN SERVICE DISCONNECT:

Map and/or verbiage

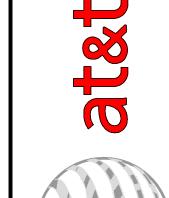
3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:

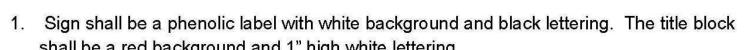
Map and/or verbiage

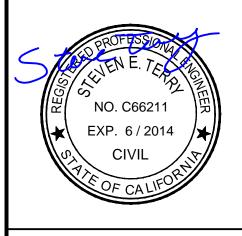
Drawing notes:

- 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









SF FD CHECKLIST

T-2

AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

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. CNU0077) located at 1881 Post 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 a 10-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such facilities with prevailing safety standards. The acceptable limits set by the FCC for exposures of unlimited duration are:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000-80,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
WiFi	2,400-5,000	5.00	1.00
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio	955	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency rang	e] 30–300	1.00	0.20

The site was visited by Mr. David Kelly, a qualified field technician contracted by Hammett & Edison, Inc., during normal business hours on January 24, 2012, a non-holiday weekday, and reference has been made to information provided by AT&T, including construction drawings by HMH Design Group, dated January 17, 2012.

Checklist

1. The location of all existing antennas and facilities at site. Existing RF levels.

AT&T had installed nine directional panel antennas – five Andrew Model TBXLHB-6565A-VTM, three Andrew Model DBXNH-6565A-R2M, and one Kathrein Model 742-264 – on the roof parapet above the Kabuki Theater, located at 1881 Post Street. Similar antennas were observed on the building for use by Clearwire, Sprint Nextel, and Verizon Wireless.

Existing RF levels for a person at ground near the site were less than 1% of the most restrictive public exposure limit. The measurement equipment used was a Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 Isotropic Electric Field Probe (Serial No. F-0034). The meter and probe were under current calibration by the manufacturer.



E8ET Page 1 of 3

AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas.

No other WTS facilities are reported to be approved for this site but not installed.

3. The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.

There were no other WTS facilities observed within 100 feet of the site.

4. <u>Location (and number) of Applicant's antennas and back-up facilities per building and location (and number) of other WTS at site.</u>

AT&T proposes to install five BelAir Networks Model BNCKG0086 directional panel antennas on the roof parapet near its existing antennas. The new WiFi antennas would be mounted with 2° downtilt at an effective height of about 79 feet above ground.

5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to application.

The expected operating power of the AT&T transmitters is reflected in the resulting effective radiated power given in Item 6 below; the transmitters may operate at a power below their maximum rating. The maximum power ratings of the other carriers' transmitters are not known.

6. Total number of watts per installation and total number of watts for all installations at site.

The maximum effective radiated power proposed by AT&T for the WiFi operation is 16 watts. The reported maximum power for the existing base station is 6,910 watts, representing simultaneous operation at 1,820 watts for AWS, 2,890 watts for PCS, 1,420 watts for cellular, and 780 watts for 700 MHz service. The number of watts for the other carriers are not known.

7. Plot or roof plan showing method of attachment of antennas, directionality of antennas, and height above roof level. Discuss nearby inhabited buildings.

The drawings show the proposed antennas to be installed as described in Item 4 above. There were noted taller buildings to the south, across Geary Boulevard.

8. Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T WiFi operation is calculated to be less than 0.00001 mW/cm², *i.e.*, below the sensitivity of typical field meters. Ambient RF levels at the site are therefore estimated to remain below 1% of the limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend no more than 14 inches out from the antenna faces and to much lesser distances above, below, and to the sides.

HAMMETT & EDISON, INC.

E8ET Page 2 of 3

AT&T WiFi Network Antennas • Base Station No. CNU0077 1881 Post Street • San Francisco, California

9. Describe proposed signage at site.

Due to their mounting locations, the AT&T antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The FCC occupational limit is calculated to be reached only within 3 inches directly in front of the antennas themselves, so operation as proposed can be considered intrinsically compliant with FCC guidelines and no mitigation measures are required. It is recommended that small explanatory warning signs* be posted at or on the antennas, to comply with City of San Francisco directives.

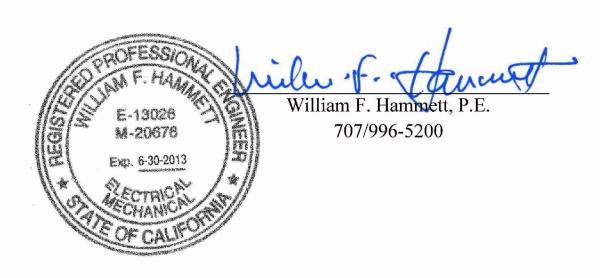
10. Statement of authorship.

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, 2013. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the proposed AT&T WiFi antennas at 1881 Post 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.

March 22, 2012



^{*} Warning signs should comply with OET-65 color, symbol, and content recommendations. The San Francisco Department of Public Health has accepted the use of diamond signs in English at 2 inches on a side.

HAMMETT & EDISON, INC.
CONSULTING ENGINEERS

IMETT & EDISON, INC.
LITING ENGINEERS
NCISCO

E8ET
Page 3 of 3

IMHH IGN GROUP 4 FRY ROAD LLE, CA. 95687 707-448-8011

&T Site Name. SF JAPAN 10WN
1881 POST STREET
&T Site ADDRESS SAN FRANCISCO, CA 94115

H Project No. 011085

te 05/30/11

DRAWN ASH

REVIEWED



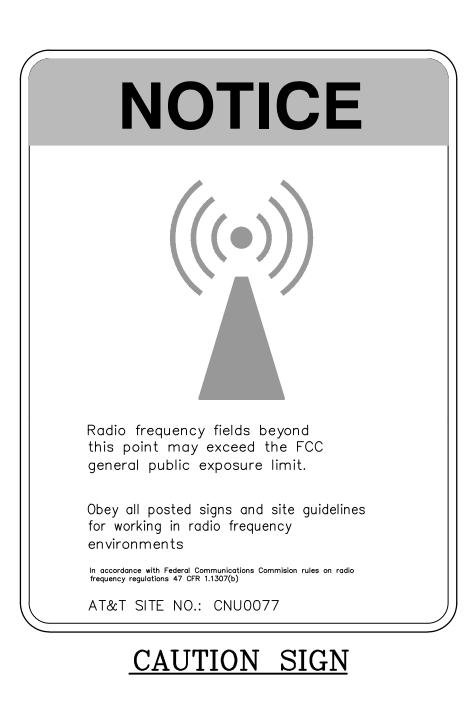




EMF REPORT

T-3

NC.



SIGNAGE MOUNTING NOTES:

FOUR CORNERS USING THE FOLLOWING GUIDELINE AS A MINIMUM:

SIGNS SHALL BE SECURELY FASTENED AT LOCATIONS SHOWN ON THE PLANS IN SUCH A MANNER AS

TO DETER REMOVAL BY FORCES OF NATURE, THEFT, VANDALISM, ETC. THE CONTRACTOR SHALL

TO BE ATTACHED AND DETERMINE THE REQUIREMENTS TO PROPERLY SECURE THE SIGN AT ALL

CONCRETE: 1/4 TAPPER CONCRETE ANCHOR, 2 INCH MINIMUM EMBEDMENT

WOOD: #12 ROUND HEAD WOOD SCREWS, 1-1/2 INCH MINIMUM EMBEDMENT

CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER SECUREMENT OF SIGNAGE AT THE SITE

METAL: #12 SHEET METAL SCREWS, 1 INCH MINIMUM EMBEDMENT

BOLTING: 1/4 MACHINE SCREWS WITH LOCK WASHERS

INVESTIGATE THE EXISTING CONSTRUCTION MATERIAL AT THE LOCATION AT WHICH THE SIGNS ARE



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

CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.

CONTACT PHONE NUMBER: 1-XXX-XXX-XXXX

SITE IDENTIFICATION NUMBER: XXXXXXX

DISCONNECT POWER AT MAIN SERVICE DISCONNECT:
 Map and/or verbiage

3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:

Map and/or verbiage

Drawing notes:

- 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.
- 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

EMERGENCY SHUT DOWN SIGN

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-XXX-XXX-XXXX (AT&T SITE NUMBER)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

AVISO A TRABAJADORES

EXISTEN ANTENAS DE RADIOFREQUENCIA EN ESTE TECHO.
POR FAVOR USE PRECAUCION ALREDOR DE LAS ANTENAS Y
OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS
INFORMACION, LLAME AL TELEFONO 1-XXX-XXX-XXXX (NUMERO DE
SITIO xxxxxx)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.130

工作人員注意

此歷字房頂有射頻天線裝置 在天線範圍四周務請小心,並遵照各己張貼之指示 及/或標繳行事 如需進入禁區範圍或索取更多資料

請致電1-XXX-XXX-XXX(此站區號:CNU0077)

依據FCC條例第47 CFR1.1310款執行

WARNING SIGN

NOTICE /

GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS

- O All personnel should have electromagnetic energy (EME) awareness training.
- O All personnel entering this site must be authorized obey all posted signs.
- O Assume all antennas are active Before working on antennas, notify owners and disable appropriate transmitters.
- O Maintain minimum 3 feet clearance from all antennas Do not stop in front of antennas Use personal RF monitors while working near antennas.
- O Never operate transmitters without shields during normal operation.
- O Do not operate base staion antennas in equipment rooms.

CAUTION SIGN





BEYOND THIS POINT you are entering a controlled area where RF emissions may exceed the FCC Occupational Exposure Limits.

Obey all posted signs and site guidelines for working in an RF environment.

Ref: FCC 47CFR 1.1307(b)

CAUTION SIGN

SIGNAGE AND STRIPING INFORMATION

THE FOLLOWING INFORMATION IS A GUIDE LINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDE LINE OR REGULATION SHALL BE FOLLOWED AND OVER RIDE THE LESSER.

THE MAXIMUM RF EXPOSURE LEVEL DUE TO THE PROPOSED AT&T WI-FI OPERATION IS CALCULATED TO BE LESS THAN 0.00001 mW/cm; i.e., BELOW THE SENSITIVITY OF TYPICAL FIELD METERS.

IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOSE NOT EXCEED THE PUBLIC LIMIT OF RFPS Z

EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED OR HAVING A FIRE EGRESS). THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDE LINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED). THEN JUST STRIPING OUT THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDE LINE FOR PLACEMENT OF SUCH STRIPING.

ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGH WILL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLANE SITE AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNAS ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.

 DATE
 REVISION

 5/30/11
 FOR REVIEW

 6/05/11
 PER COMMENT

 9/20/11
 ADD CLUSTER

 1/17/12
 ADD NEMA CABIT

 4/11/12
 FOR PERMIT

 6/30/12
 CITY COMMENT

HIMH DESIGN GROUP 5164 FRY ROAD VACAVILLE, CA. 95687 PHONE: 707-448-8011 FAX: 448-8190

Site ADDRESS SAN FRANCISCO, CA 94115
Project No. 011085

DEAWN ASH ASH

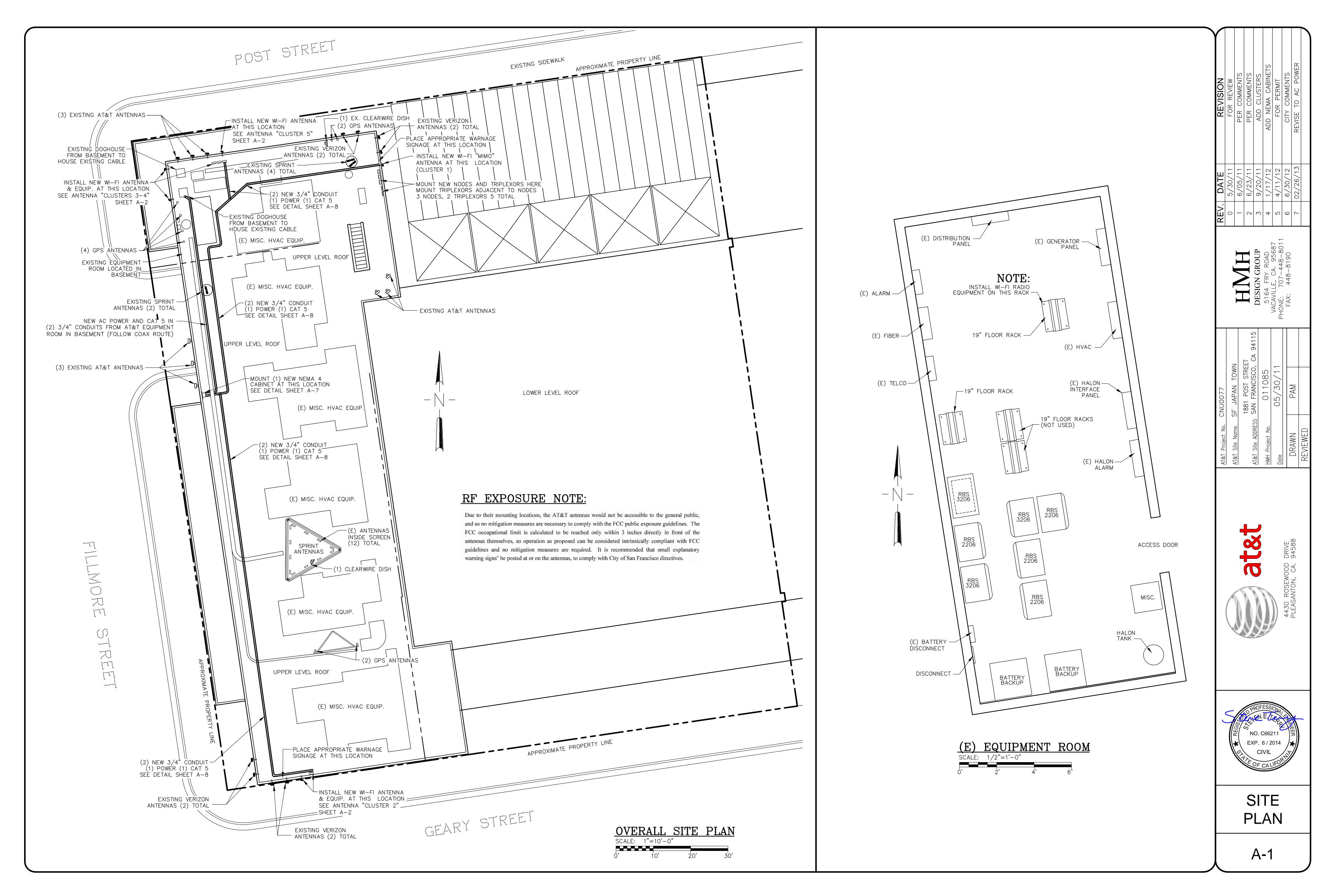


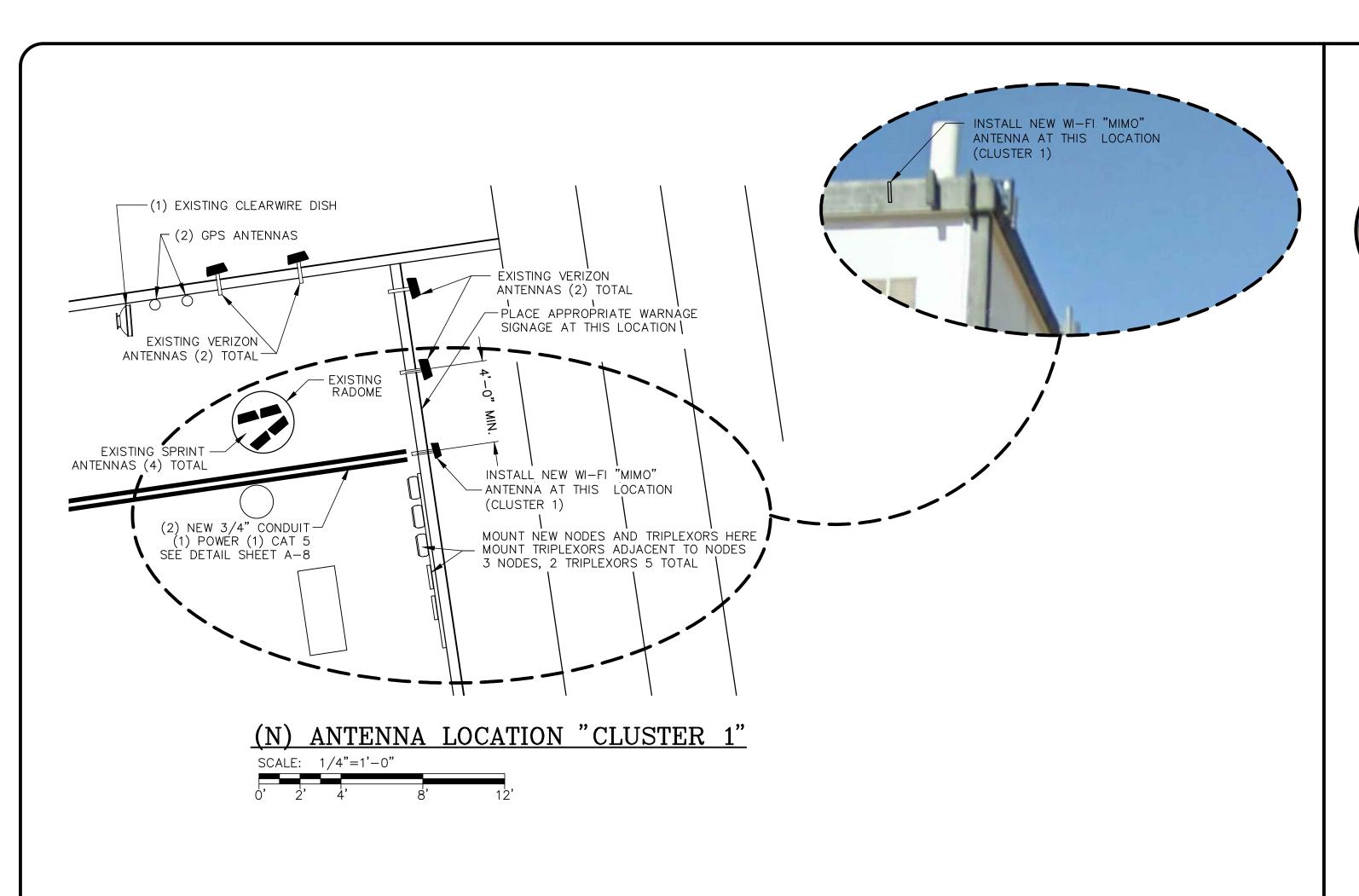


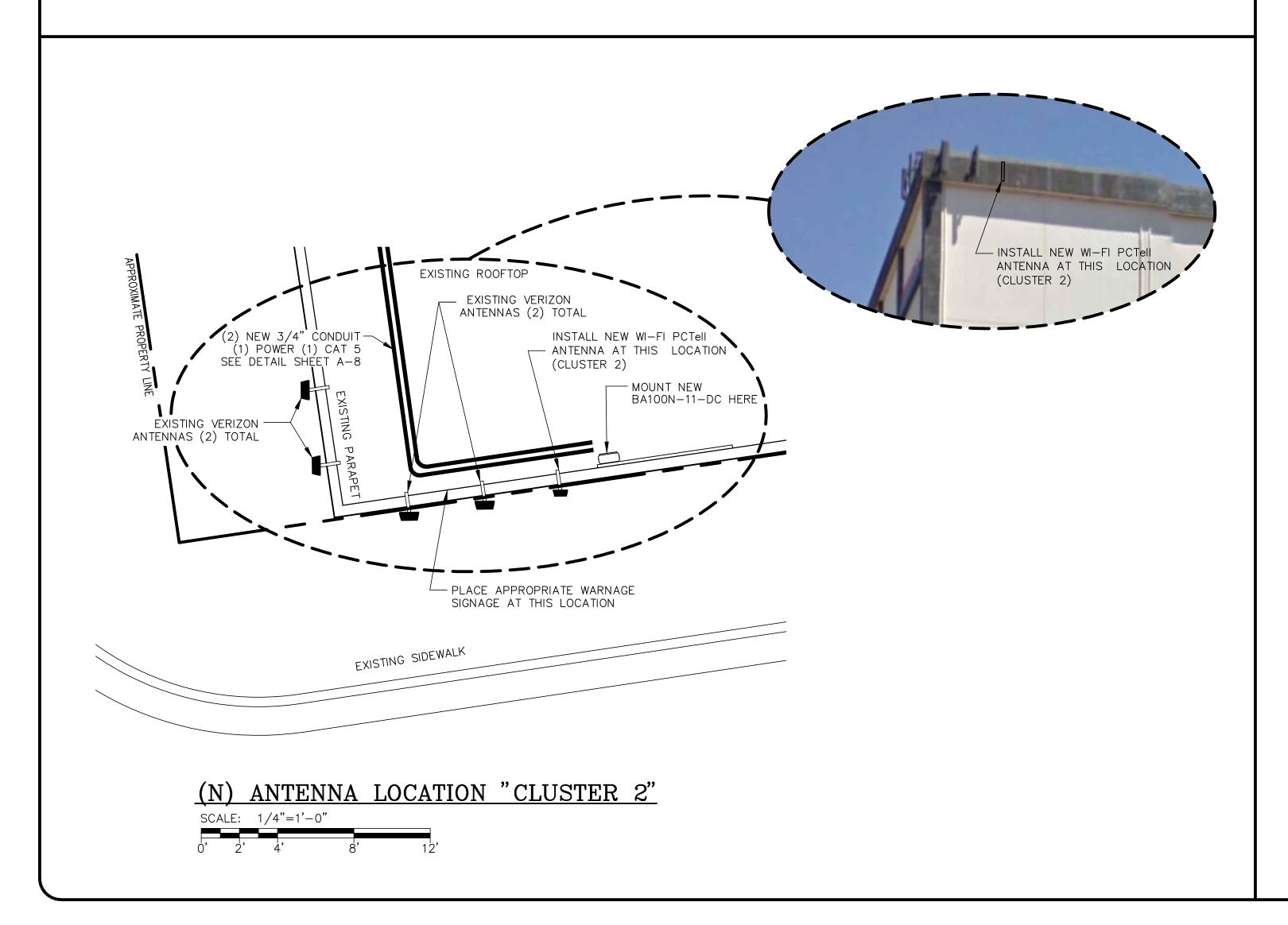


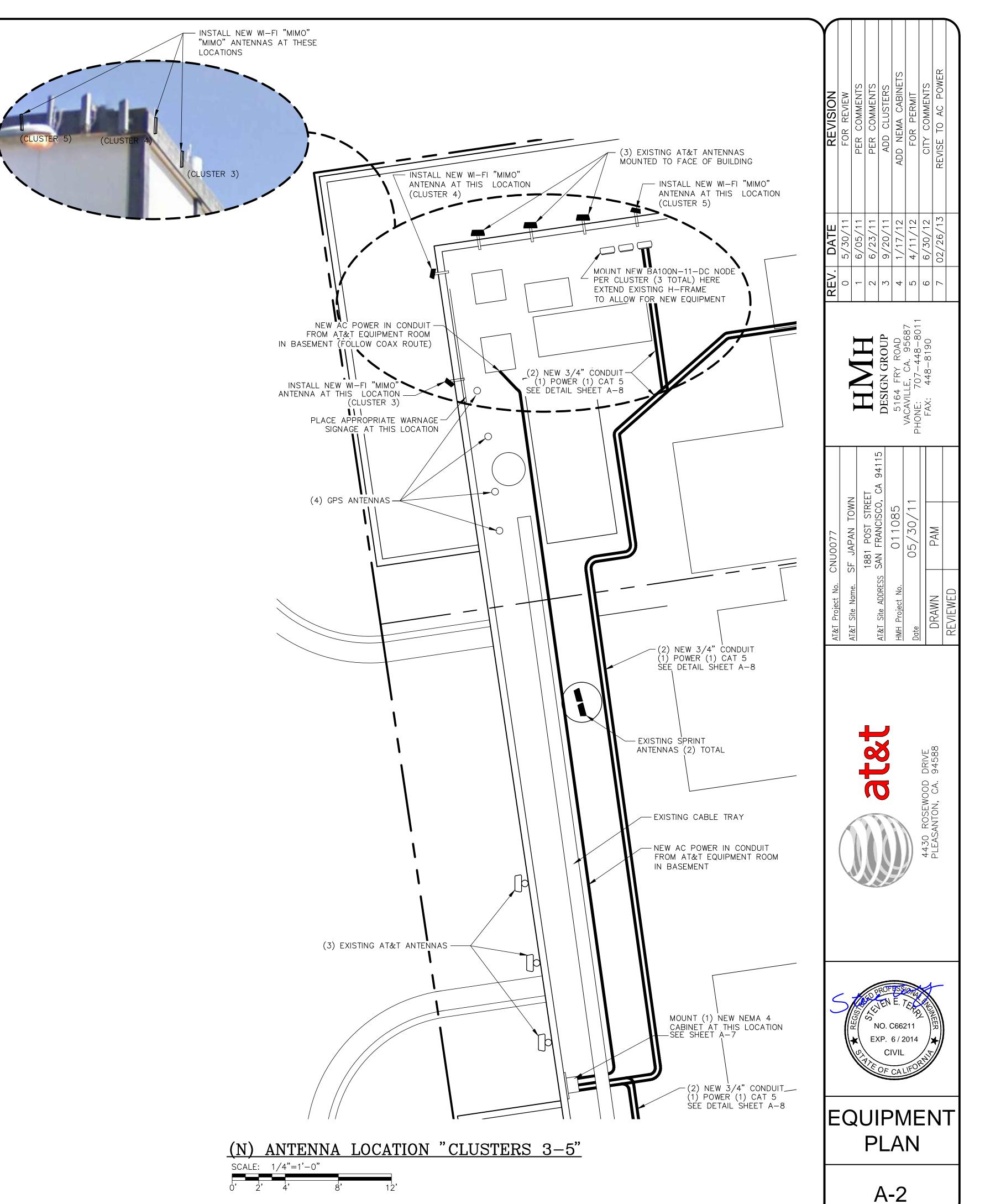
SIGNAGE

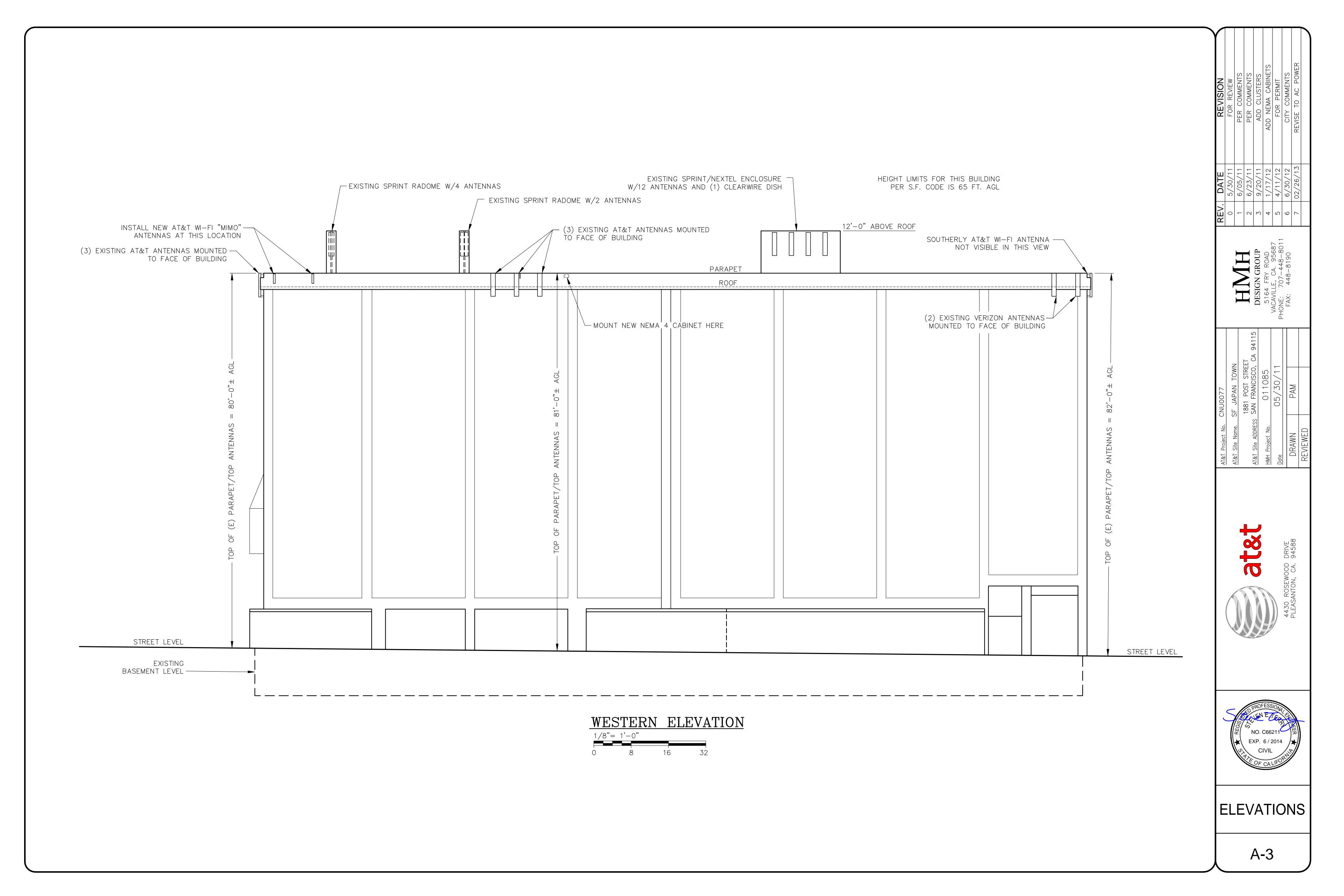
T-4

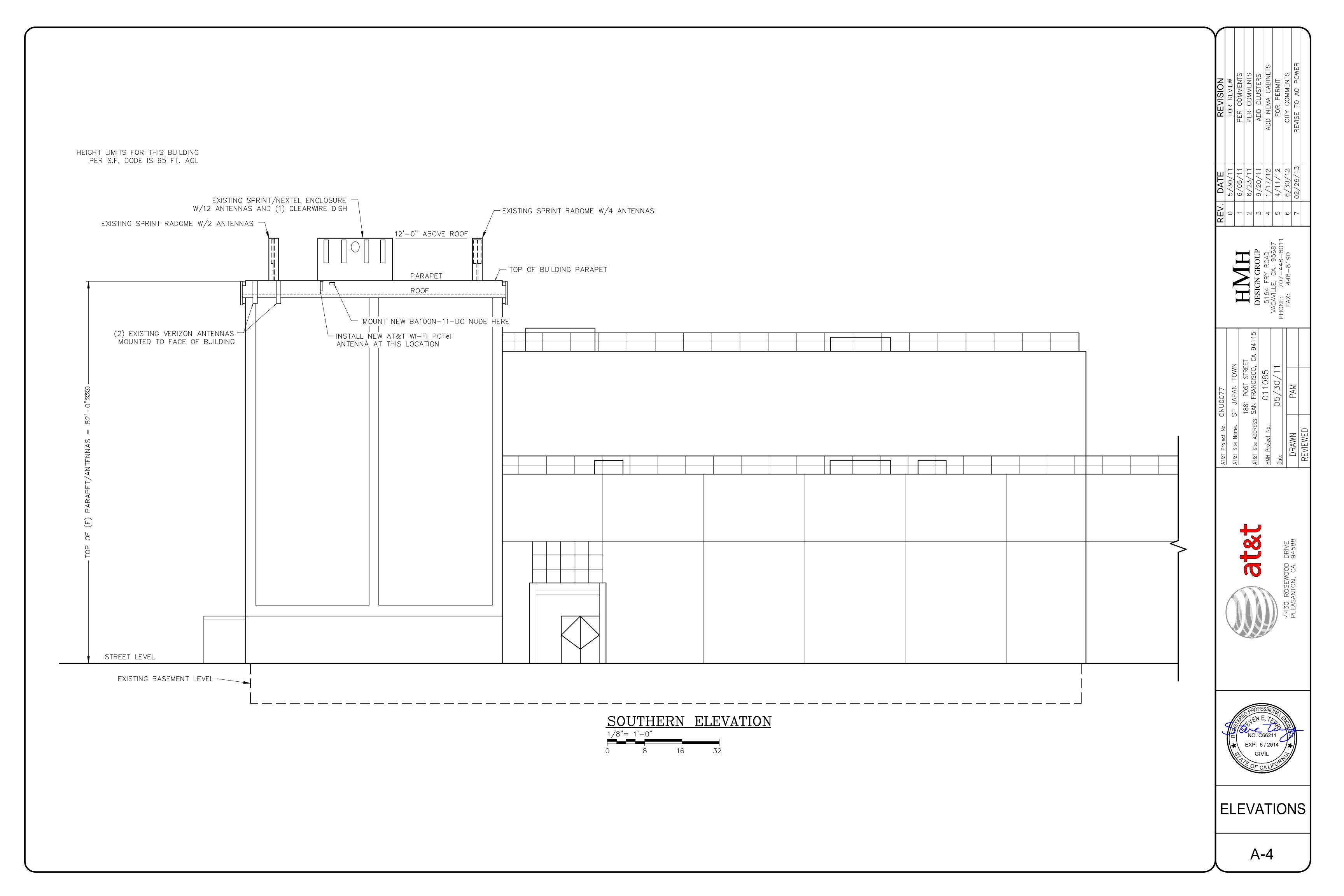


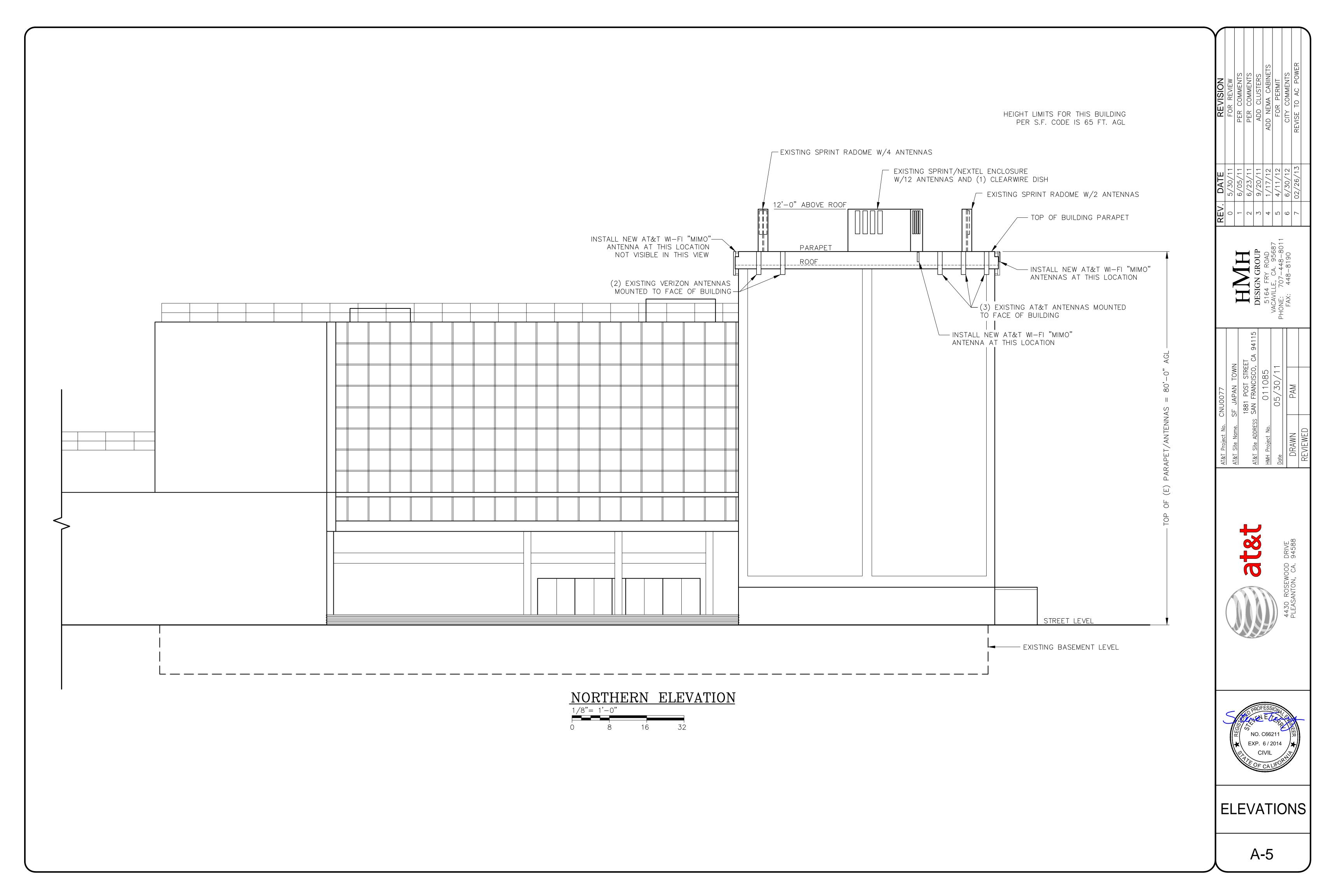


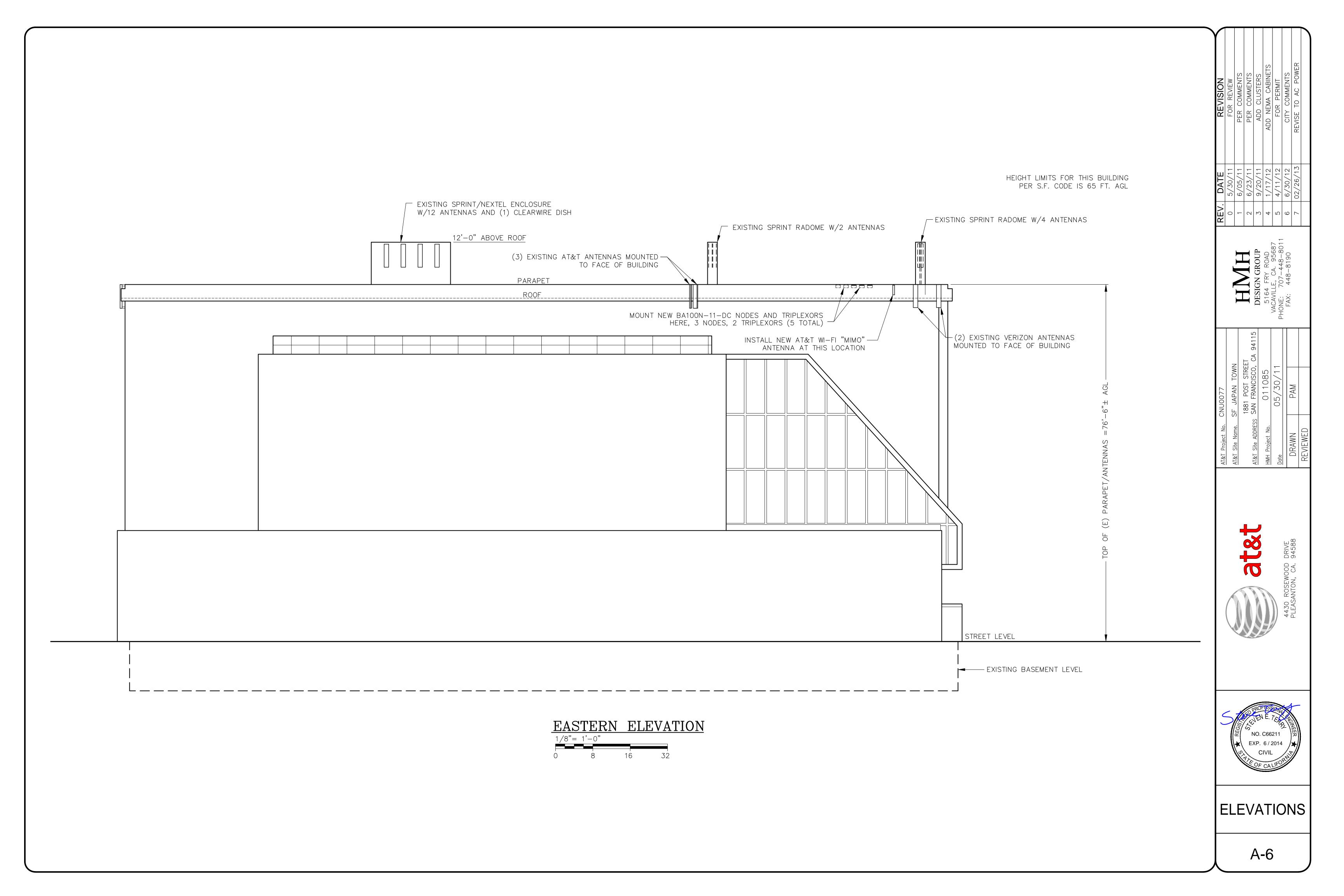












BA100N-11-AC supports AC BA100N-11-DC supports DC and PoE

PoE Power Components

PoE Injector – two types, co-located with Ethernet switch

- PoE Splitter Cable, connects to the node
- Bulgin Buccaneer Ethernet Joiner
- BA100N-11-DC consumes more power than 802.11af offers, and requires a BelAir Injector

Outdoor PoE Injector (BNCKG0151)

- Universal AC input
- Max Distance over Cat5: 100 meters
- Climate-Hardened: -40°C to +70°C, but requires weatherproof NEMA enclosure
- Dimensions: 6.2" x 2.5" x 1.3"

Indoor PoE Injector (BNCKG0101)

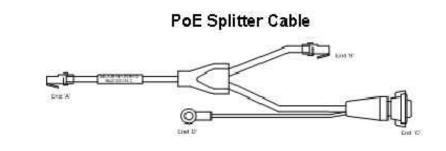
- Max Distance over Cat5: 74 meters
- AC Power Supply is NOT climate-hardened (0°C to 50°C) Splitter Cable (BNCKG0023 or BNCKG0102) and Ethernet Joiner (PX0777)
- Splitter cable is installed at the node, and splits the PoE Ethernet into separate DC power and Ethernet endpoints.
- Ethernet Joiner weather-hardens the connection between. the PoE Splitter Cable and the Cat5 cable back to the PoE Injector.



BELAIR NETWORKS CONFIDENTIAL

Slide 9





Bulgin Joiner



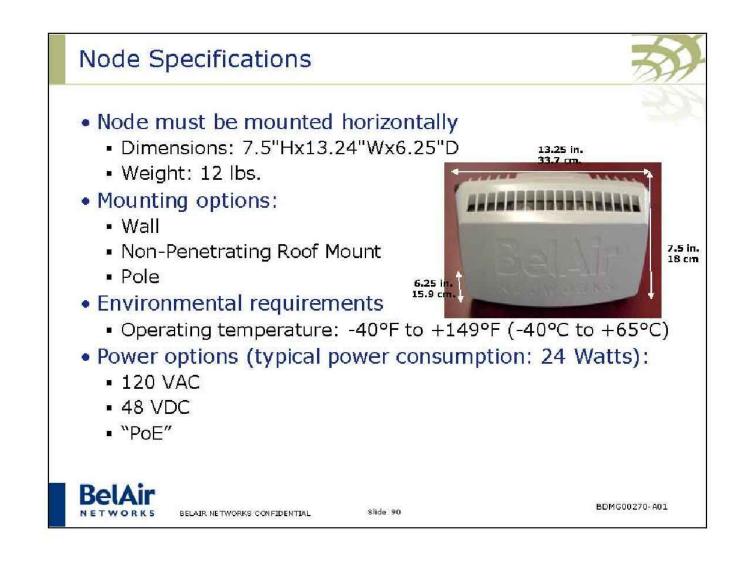
Triplexer Specs

The triplexer provides high immunity to cellular band operation, with over 80 dB of rejection of 900/PCS1900/AWS bands and 60 dB of 2500-2700 MHz WiMAX band signals to ensure interference free colocation operation.



- Non-powered
- Hardened: IP66, -40°C to +70°C)
- Mounts on pole, wall or shelf
- Less than 10.25" x 13.8" x 2.1"
- Weight: 18lbs

Wi-Fi Offload Design



Wi-Fi Offload Design

Node Mounting Options

Mounting Options

- Pole mounting
- Flat roof mounting
- Wall mounting

Anti-theft Features

- Tool removable fasteners
- Security cable slots

BelAir100N **Mounting Bracket**

BDMG00270-A01

BelAir

BELAIR NETWORKS CONFIDENTIAL

Mounting Options The BelAir nodes can be mounted in various ways, including:

- Pole Mounting
- Flat Roof Mounting
- Wall Mounting

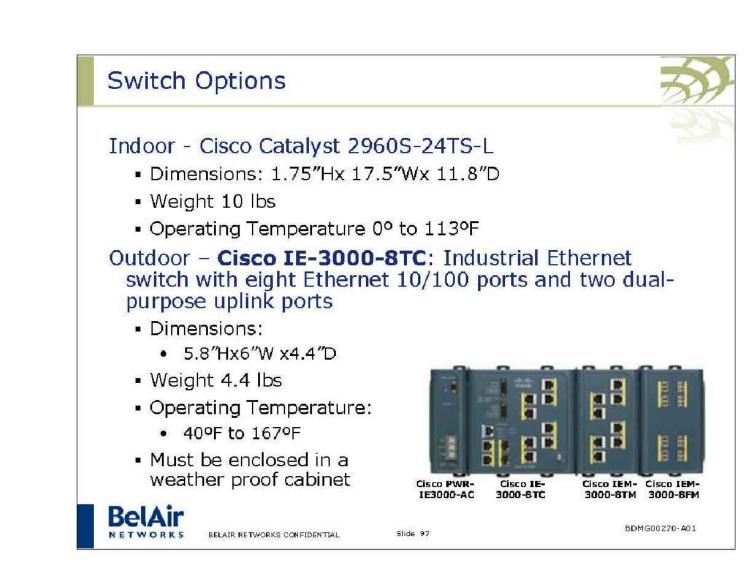
Anti-Theft Features

BelAir mounting features have two levels of protection to discourage acts of vandalism and theft.

BelAir radios are secured to standard mounting brackets with tool removable fasteners. In this way, it is not possible to remove the unit without the use of tools.

BelAir radios are also equipped with multiple security cable slots that may be used to lock the unit in place. These slots, used in conjunction with a standard security cable, such as those available for laptop computers, provide a reliable way of securing the unit. These slots are provided in various locations to allowing locking in all mounting orientations.

Wi-Fi Offload Design



Cisco IEM-3000-8TM - Expansion Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, 8 10/100 TX ports

Cisco IEM-3000-8FM - Expansion Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, 8 100 FX ports

Cisco PWR-IE3000-AC - Expansion Power Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, supports 110/220VAC and 88-300VDC (base switches support 18VDC-60VDC)

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9703/data_sheet_c78-

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps6406/product_data_sh eet0900aecd80322c0c.html

SPARCO Technologies



SP-NEMA-LR-IOM-ATTPR

Application:

Designed for use as an insulated enclosure to protect radio frequency access devices in wet, dusty, and corrosive environments. The door is opaque to prevent others from knowing what components are inside. Lightweight design is easy to ship and install. Enclosures also designed to prevent theft and tampering of sensitive equipment.

Construction:

- Body is impact-resistant engineered thermoplastic. Opaque and clear covers are impact-resistant
- engineered thermoplastic.
- · Seamless foam-in-place gasket assures watertight
- and dust-tight seal
- Mounting Feet for easy field installation included
- with each shipment
- Mounting plate for easy install of Bridge/AP · Quick release latch with external locking loop

Gloss Grey

Finish/Color:

Sparco Technologies, Inc. 10942 Wye Drive #205 San Antonio, TX 78233 www.sparcotech.com

Features:

- The engineered thermoplastic enclosures have dramatically better impact resistance. For example, the SP-NEMA-IOM has an impact resistance of over 900 lb/in, while fiberglass typically has an impact resistance of less than 220 lb/in.
- · Universal Mounting bracket can be adjusted to accommodate most manufactures' radio
- 18 Grommet Penetrations
- 2 Mounted Power Receptacles
- 1 Power Cord
- 8 Power Cables (ATT Supplied) with Harness
- CAT5 Lightning Protection
- DIN Rail mount for Cisco Switch
- DIN Rail terminal blocks with fuse
- Made in the USA

Accessories Available (but not included):

- Weather/Sun Shield
- Thermostatically controlled Heater
- Thermostatically controlled Solid State AC Thermostatically controlled Fan and Filter
- Mast Mount Kit Available
- Various Bulkhead Connector Options

External Dimensions (L x W x D): SP-NEMA-LR-IOM:

14"x12"x10"

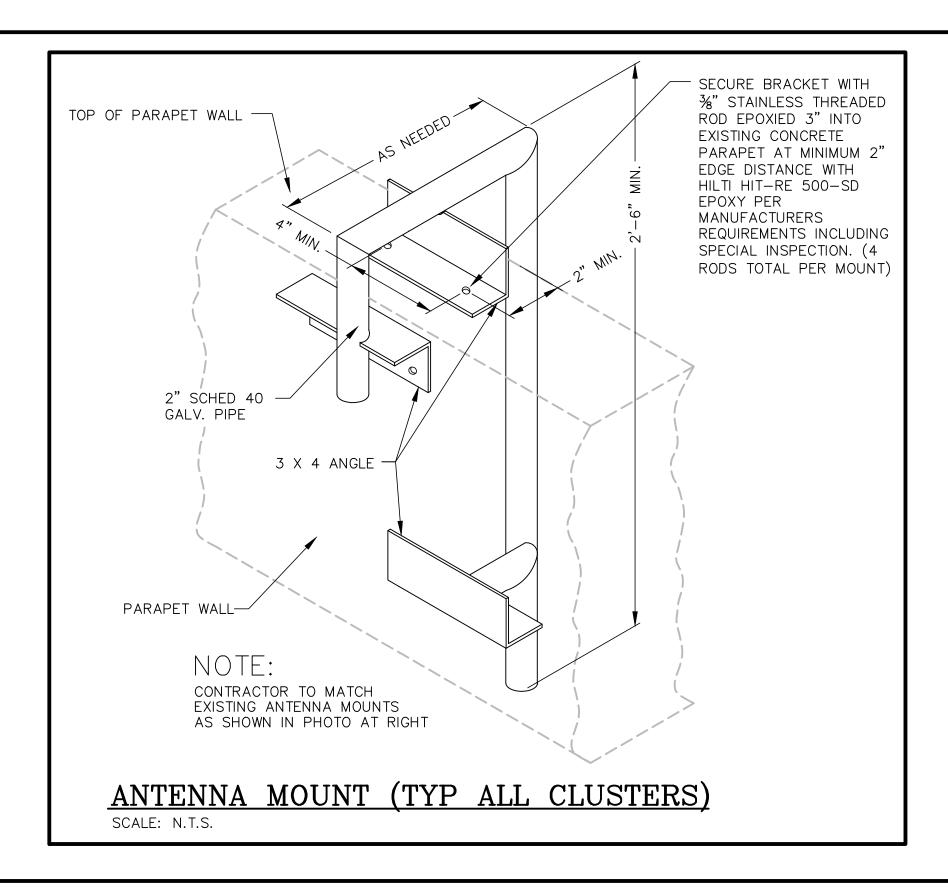


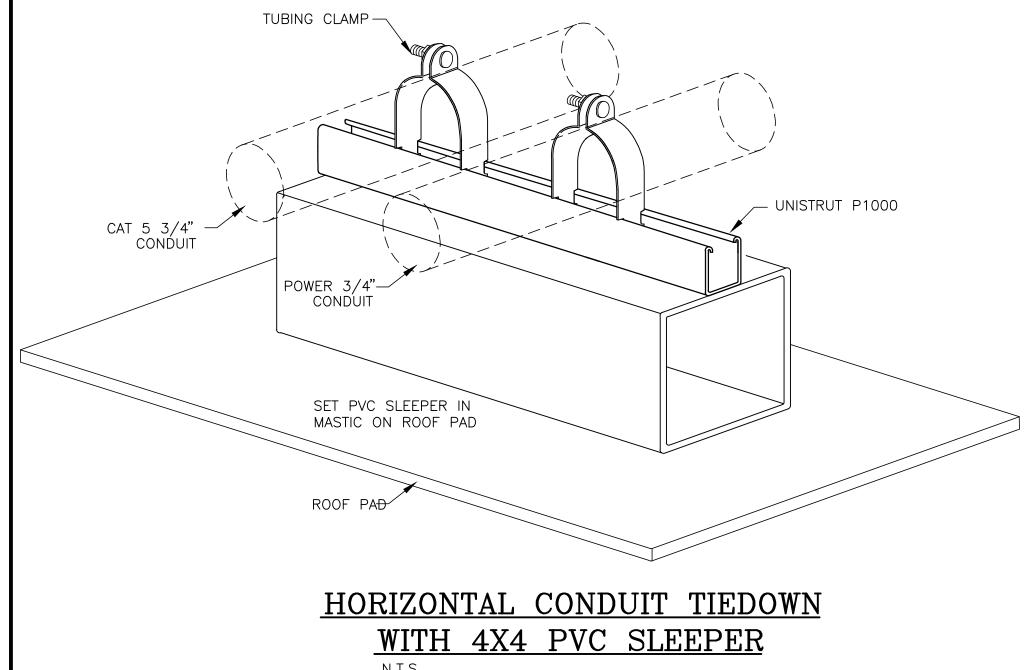


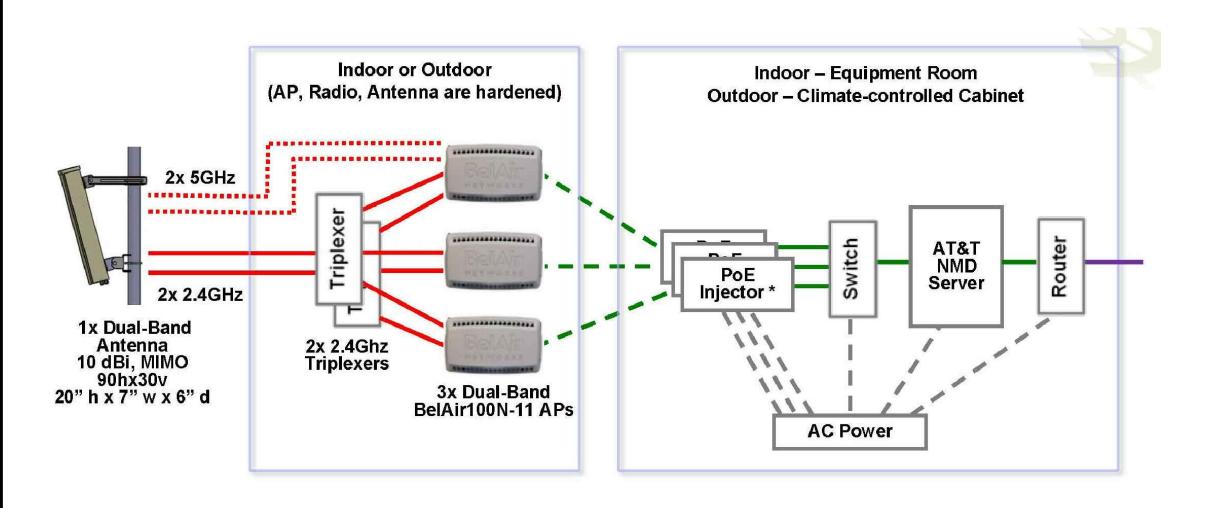


CUT SHEETS

A-7



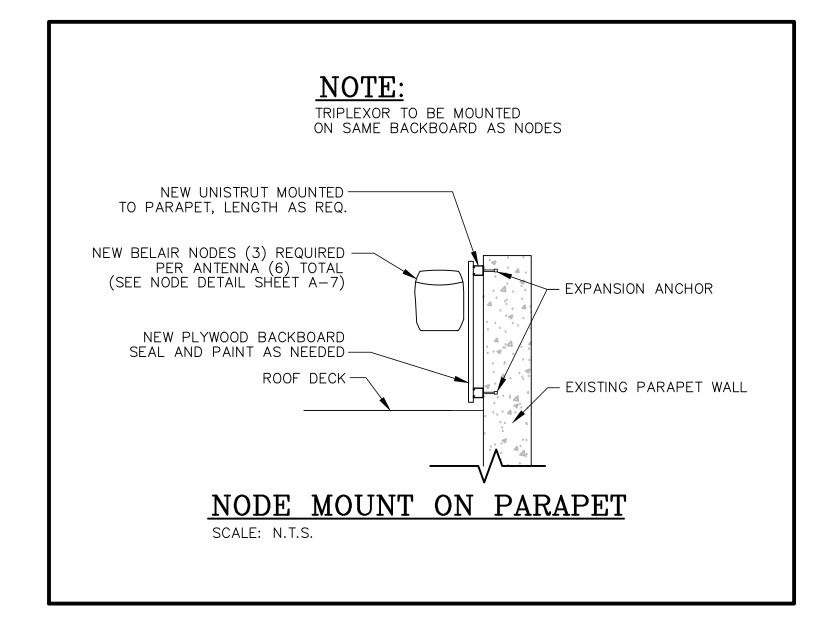


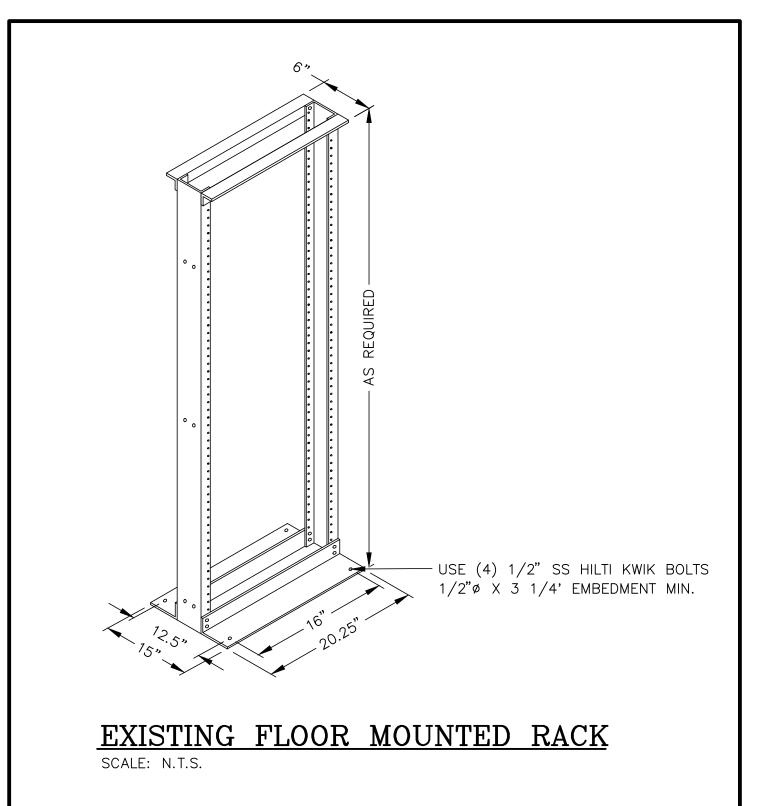


AT&T Wi-Fi Network Design



EXISTING ANTENNA MOUNTS SCALE: N.T.S.





BelAir NETWORKS

BNCKG0086 Sector Antenna

The BNCKH0086 is a quad input MIMO antenna specifically optimized for BelAir Networks radio products for cellular co-location offload.

The antenna employs two columns of slant dipoles for each of the 2400-2483.5 ISM and 4900-5900 MHz U-NII/ISM bands.

The four antenna ports are protected with a DC ground on each port. The antenna is encased in a weather proof ruggedized UV resistant plastic radome.

The antenna provides excellent performance with VSWR < 1.5 and a front-to-back ratio of > 20 dB at 2.4 GHz and 25 dB at 5 GHz.

The antenna has down tilt capability, and is designed to attach to standard mechanical structures of 0.75" to 2.0" pipe, supporting a down tilt capability up to 45 degrees.



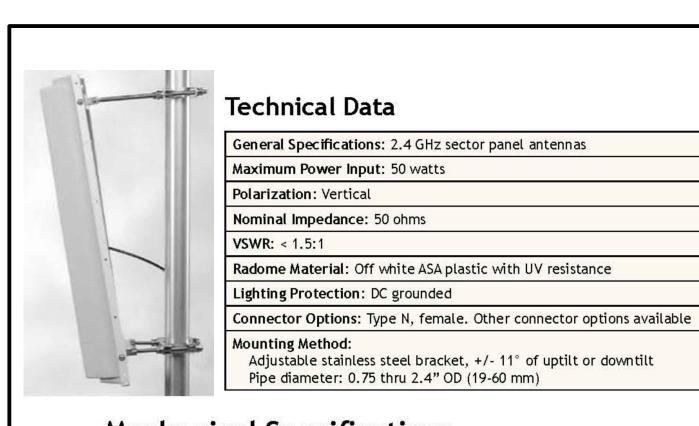
Features at a Glance: • 90° x 30° sector • 10 dBi peak gain at 2.4 and 5 GHz • 2400-2483.5 and 4900-5900 MHz Four N-female connectors • Linear dual slant 45° 2x2 at 2.4 / 5 GHz

 Environmentally hardened • -40C to +70C operation • Package 20"high x 6.7" wide x 6" deep • Plastic radome, paintable

• Mounting bracket with tilt adjustment

Mechanical Specifications	
Length	< 20"
Width	< 7"
Depth	< 6"
Weight	< 10 lbs
Mounting Pipe 0.75" to 2.0" outside diameter	
Tilt Adjustment 0 to 45° tilt from vertical or horizontal orientation	

"MIMO" ANTENNA SPECS



Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
MSP24013MB	21.5" L \times 6.5" W \times 2.8" D (546 \times 16.5 \times 7.2 mm)	4 lbs (1.8 kg)	-30°C to +75°C
MSP24013-120	21.5" L \times 6.5" W \times 2.8" D (546 \times 16.5 \times 7.2 mm)	4 lbs (1.8 kg)	-30°C to +75°C
MSP24014-90	21.5" L × 6.5" W × 2.8" D (546 × 16.5 × 7.2 mm)	4 lbs (1.8 kg)	-30°C to +75°C
MSP24016-60	21.5" L \times 6.5" W \times 2.8" D (546 \times 16.5 \times 7.2 mm)	4 lbs (1.8 kg)	-30°C to +75°C

"PCTell" ANTENNA SPECS.

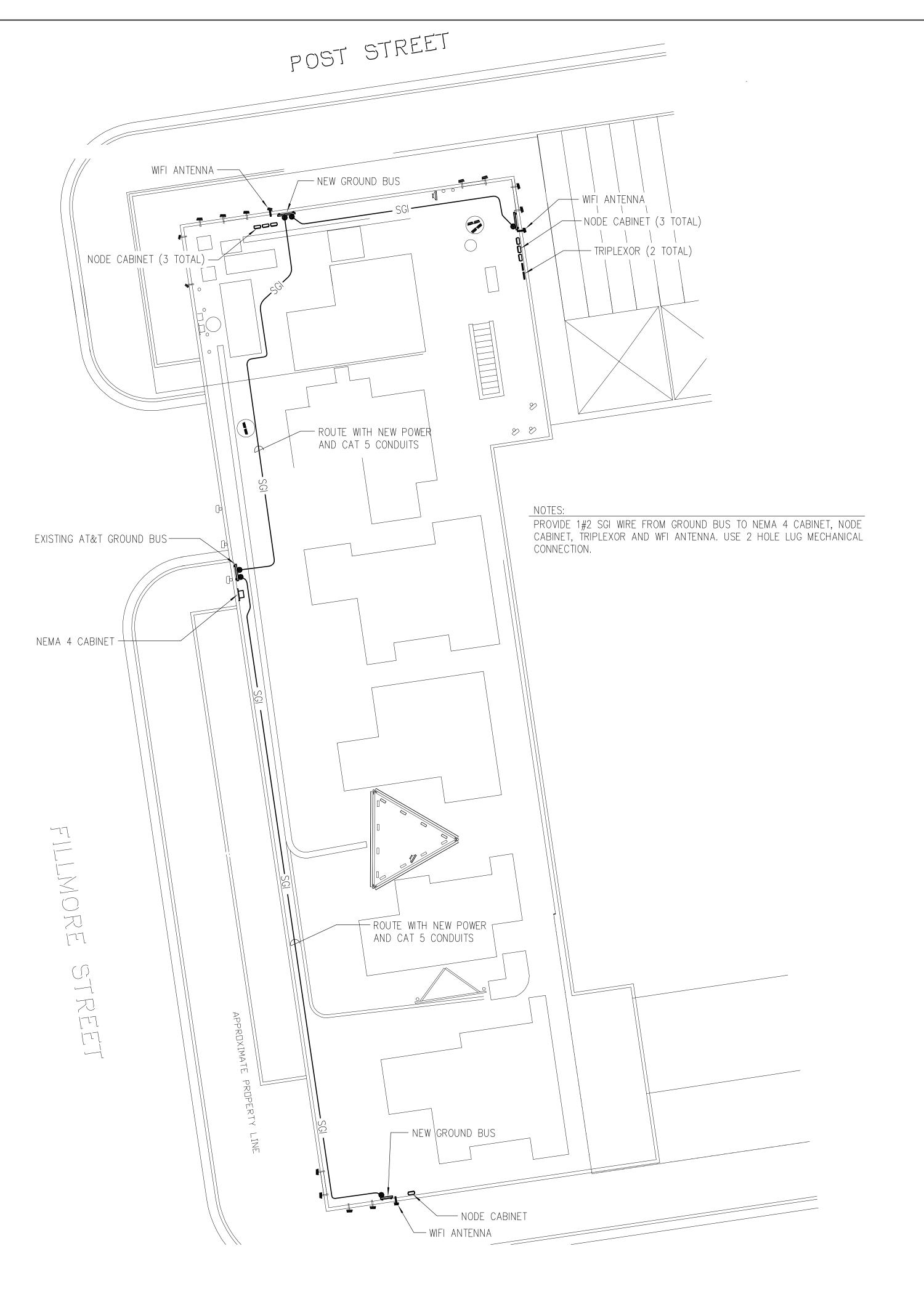






DETAILS

A-8







BELAIR

NODE

BELAIR

NODE

-2#10, 1#12 GND, 3/4°C.

BELAIR

NODE

ROOF LEVEL

atet

NOTES:

1. ALL BREAKERS IN THE PANEL ARE RATED 10,000 RMS SYMMETRICAL AMPS, 240V MAX, 90°C.

EXISTING AT&T -POWER PANEL

120/240V 10 3W LOCATED IN AT&T EQUIPMENT ROOM IN BASEMENT

GROUNDING LEGEND

BELAIR NODE

2#10, 1#12 GND, 3/4"C.—

2#10, 1#12 GND, 3/4"C.—

BELAIR

NODE

BELAIR

NODE

NEMA 4 CABINET

- FLEX CONNECTION

— 2#10, 1#12 GND, 3/4"C. ROUTE UP TO ROOF USING EXISTING COAX CHASE

REUSE EXISTING SPARE CIRCUIT BREAKER

- JUNCTION BOX (TYP)

#2 AWG STRANDED GREEN INSULATED WIRE

ITEM

BELAIR NODE

2#10, 1#12 GND, 3/4°C.-

DESCRIPTION

CADWELD CONNECTION MECHANICAL CONNECTION

- 2. ALL WIRING SHALL BE RATED FOR 90°C.
- 3. CONDUIT REQUIREMENTS (TYP., U.N.O.): UNDERGROUND: PVC (SCHED. 40 OR 80) INDOOR: EMT (RGS IN TRAFFIC AREAS)
 OUTDOOR (ABOVE GRADE): RGS

ELECTRICAL SHEET

E-1

SINGLE LINE DIAGRAM

GROUNDING PLAN

SCALE: 1" = 10'-0"

NO SCALE