

SAN FRANCISCO PLANNING DEPARTMENT

Executive Summary Conditional Use Authorization

HEARING DATE: OCTOBER 1, 2015

Date:	September 24, 2015
Case No.:	2015-007505CUA
Project Address:	678 Portola Drive
Current Zoning:	RH-1(D) Residential – House, One-Family, Detached
	Scenic Street Special Sign District
	40-X Height and Bulk District
Block/Lot:	2892/004
Project Sponsor:	Verizon Wireless, represented by
	Susan Zaca, Modus
	149 Natoma Street, 3 rd Floor
	San Francisco, CA 94105
Staff Contact:	Omar Masry – (415) 575-9116
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Reception: 415.558.6378

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Planning Information: **415.558.6377**

PROJECT DESCRIPTION

The proposal is to allow the modification of an existing Verizon Wireless macro Wireless Telecommunications Services ("WTS") facility. The proposal would feature a total of six (6) panel antennas screened within the existing church steeple. An existing Verizon Wireless panel antenna currently mounted to the west facing façade, and another Verizon Wireless panel antenna within the church steeple would be removed. A new GPS antenna would be mounted on a rear roof and painted to match the overall building color. Lastly, conduit and equipment would be installed on the roof, in a lower courtyard, and an adjacent interior area.

Based on the zoning and land use, the existing WTS facility is at a Location Preference 1 Site (Preferred Location, Publicly-Used Structure: Church) according to the WTS Facilities Siting Guidelines.

SITE DESCRIPTION AND PRESENT USE

The Project Site is located on Assessor's Block 2892, Lot 004, and is located at the northeast corner of Portola Drive and Sydney Way. The Project Site features a 35'-5" foot tall church, with a 62'-6" tall steeple, and a surface parking lot along the western edge of the Project Site. Prior WTS facility background for the Project Site includes:

- The existing AT&T Mobility macro WTS facility (approved by Case No. 2009.0770C) features nine (9) screened antennas located within the existing church steeple and an exterior equipment area.
- The existing Verizon Wireless macro WTS facility (approved by Case No. 2002.1120C) features one existing screened panel antenna within the church steeple and one unscreened panel antenna attached to a west facing building façade.

- The proposed Verizon Wireless panel antennas would be installed in a location previously utilized for Nextel antennas. The Nextel macro WTS facility (Case No. 2000.1255C) was recently removed per Building Permit no. 2014.07.01.0191.
- A previous Cellular One (acquired by AT&T Mobility) WTS facility, featuring three (3) whip antennas mounted above the steeple, was approved per Building Permit No. 9925208. The antennas were removed as part of the AT&T Mobility macro WTS facility installation.

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is situated within the West of Twin Peaks neighborhood, along Portola Drive, east of Sydney Way. The Project Site is prominently visible, given the lot elevation, building height, and bold lavender exterior paint, as one approaches the hilltop area where Portola Drive, Woodside Avenue, and O'Shaughnessy Boulevard intersect. The Project Site is surrounded by two-story single-family homes to the west and north, a Pacific Gas and Electric "Portola" substation to the east, and shopping center (tenants include Walgreens, Mollie Stone's Market) to the south across Portola Drive.

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.

ТҮРЕ	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	September 11, 2015	September 11, 2015	20 days
Posted Notice	20 days	September 11, 2015	September 11, 2015	20 days
Mailed Notice	10 days	September 21, 2015	September 15, 2015	16 days

PUBLIC COMMENT

The Project Sponsor held a separate community meeting at the Project Site, to discuss the Project at 6:00 p.m. on August 20, 2015. No community members attended the meeting.

As of September 10, 2015, the Department has received no comments regarding the proposed Project.

ISSUES AND OTHER CONSIDERATIONS

- Health and safety aspects (e.g. engineering review for structural loads, and backup battery storage) of all wireless Projects are reviewed by the Department of Public Health, San Francisco Fire Department, and the Department of Building Inspection.
- The radio-frequency (RF) emissions associated with this Project (and cumulative emissions from existing on-site and nearby WTS facilities) have been determined to comply with limits established by the Federal Communications Commission (FCC). 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.

- An updated Five Year Plan with approximate longitudinal and latitudinal coordinates of proposed locations, including the Project Site, is on file with the Planning Department.
- All required public notifications were conducted in compliance with the Planning Code and adopted WTS policies.

REQUIRED COMMISSION ACTION

Pursuant to Sections 209.1 and 303 of the Planning Code, a Conditional Use Authorization is required for a new macro WTS facility or a major modification (e.g. antenna and equipment addition) to an existing macro WTS facility.

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.
- While the Subject building was purpose built as a church, the overall proposed WTS facility design is consistent with the Residential Design Guidelines. Furthermore the placement of antennas and supporting equipment would not have a negative effect on adjacent residential dwellings with respect to design, noise, traffic, parking, and lighting.
- 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, 16539, and 18523 supplementing the 1996 WTS Guidelines.
- According to the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines, the Project Site is Location Preference 1 (Preferred Location, Publicly-Used Structure; Church) site..
- Based on propagation maps provided by Verizon Wireless, the Project would provide enhanced 700 – 2,100 Megahertz 4G/LTE (4th Generation, Long-Term-Evolution, voice and data) coverage in an area that currently experiences gaps in coverage and capacity.
- Based on the analysis provided by Verizon Wireless, 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 Verizon Wireless are accurate.
- The primarily screened nature of the facility, along with the placement of equipment areas within
 recessed courtyards and interior rooms would ensure the proposed macro WTS facility does not
 have an adverse effect on the Subject building or surrounding residential properties.
- The Project has been reviewed by staff and found to be categorically exempt from further environmental review, as a Class 3 exemption of the California Environmental Quality Act.

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



Planning Commission Motion No. XXXXX

HEARING DATE: OCTOBER 1, 2015

September 24, 2015
2015-007505CUA
678 Portola Drive
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Scenic Street Special Sign District
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ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 209.1 AND 303(c) TO MODIFY A VERIZON WIRELESS MACRO WIRELESS TELECOMMUNICATIONS SERVICES FACILITY (CASE NO. 2002.1120C) CONSISTING OF A TOTAL OF SIX (6) SCREENED PANEL ANTENNAS WITHIN A CHURCH STEEPLE AND ASSOCIATED INDOOR AND OUTDOOR EQUIPMENT AREAS AS PART THE VERIZON WIRELESS TELECOMMUNICATIONS NETWORK WITHIN A RH-1(D) RESIDENTIAL HOUSE, ONE-FAMILY DETACHED ZONING DISTRICT, SCENIC STREET SPECIAL SIGN DISTRICT, AND A 40-X HEIGHT AND BULK DISTRICT.

PREAMBLE

On June 15, 2015, Verizon Wireless (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for a Conditional Use Authorization on the property at 678 Portola Drive, Lot 004, in Assessor's Block 2892, (hereinafter "Project Site") to modify an existing Verizon Wireless macro Wireless Telecommunications Services facility (hereinafter "WTS") consisting of a total of six (6) panel antennas screened within a church steeple, and indoor and outdoor equipment areas, as part of the Verizon Wireless telecommunications network, within a RH-1(D) Residential House, One-Family Detached Zoning District, Scenic Street Special Sign District, and a 40-X Height and Bulk District.

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3(d) 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, Suite 400, San Francisco.

On October 1, 2015, 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. 2015-007505CUA, 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 Project Site is located on Assessor's Block 2892, Lot 004, and is located at the northeast corner of Portola Drive and Sydney Way. The Project Site features a 35'-5" foot tall church, with a 62'-6" tall steeple, and a surface parking lot along the western edge of the Project Site. Prior WTS facility background for the Project Site includes:
 - The existing AT&T Mobility macro WTS facility (approved by Case No. 2009.0770C) features nine (9) screened antennas located within the existing church steeple and an exterior equipment area.
 - The existing Verizon Wireless macro WTS facility (approved by Case No. 2002.1120C) features one existing screened panel antenna within the church steeple and one unscreened panel antenna attached to a west facing building façade.
 - The proposed Verizon Wireless panel antennas would be installed in a location previously utilized for Nextel antennas. The Nextel macro WTS facility (Case No. 2000.1255C) was recently removed per Building Permit no. 2014.07.01.0191.
 - A previous Cellular One (acquired by AT&T Mobility) WTS facility, featuring three (3) whip antennas mounted above the steeple, was approved per Building Permit No. 9925208. The antennas were removed as part of the AT&T Mobility macro WTS facility installation.

Motion No. XXXXX Hearing Date: October 1, 2015

- 3. **Surrounding Properties and Neighborhood**. The Project Site is situated within the West of Twin Peaks neighborhood, along Portola Drive, east of Sydney Way. The Project Site is prominently visible, given the lot elevation, building height, and bold lavender exterior paint, as one approaches the hilltop area where Portola Drive, Woodside Avenue, and O'Shaughnessy Boulevard intersect. The Project Site is surrounded by two-story single-family homes to the west and north, a Pacific Gas and Electric "Portola" substation to the east, and shopping center (tenants include Walgreens, Mollie Stone's Market) to the south across Portola Drive.
- 4. **Project Description.** The proposal is to allow the modification of an existing Verizon Wireless macro Wireless Telecommunications Services ("WTS") facility. The proposal would feature a total of six (6) panel antennas screened within the existing church steeple. An existing Verizon Wireless panel antenna currently mounted to the west facing façade, and another Verizon Wireless panel antenna within the church steeple would be removed. A new GPS antenna would be mounted on a rear roof and painted to match the overall building color. Lastly, conduit and equipment would be installed on the roof, in a lower courtyard, and an adjacent interior area.
- 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 2004 and again in 2012, requiring community outreach, notification, and detailed information about the facilities to be installed.

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

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

Section 8.1 of the WTS Siting Guidelines further stipulates that the Planning Commission will not approve WTS applications for Preference 5 or below Location Sites unless the

application describes (a) what publicly-used building, co-location site or other Preferred Location Sites are located within the geographic service area; (b) what good faith efforts and measures were taken to secure these more Preferred Locations, (c) explains why such efforts were unsuccessful; and (d) demonstrates that the location for the site is essential to meet demands in the geographic service area and the Applicant's citywide networks.

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

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

- 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*, and based on the zoning and land use (church), the proposed macro WTS facility is on a Location Preference 1 Site (Preferred Location, Publicly-Used Structure) according to the WTS Facilities Siting Guidelines. No alternative site analysis is required for a Preference 1 Site.
- Radio Waves Range. The Project Sponsor has stated that the proposed wireless network is designed to address coverage and capacity needs in the area. The network will operate in the 700 – 2,100 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, 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 radio-frequency (RF) levels at ground level were around 7% of the FCC public exposure limit.

The Project Site features nine (9) directional panel antennas, used by AT&T Mobility, within the church steeple, and two (2) directional panel antennas used by Verizon Wireless, within the church steeple and along the west facing façade. Macro WTS facilities operated by T-Mobile and Sprint are located approximately 160 feet away on a three-story building (Mollie Stone's Market). The proposed installation would remove

the existing Verizon Wireless panel antennas and install six (6) panel antennas within the church steeple. The Verizon Wireless panel antennas would be mounted at a height of approximately 58 feet (midpoint of antennas) above the ground. The estimated ambient RF field from the proposed Verizon Wireless transmitters at ground level is calculated to be 0.039 mW/sq. cm., which is 7.3% of the FCC public exposure limit.

The maximum cumulative effect of the AT&T Mobility and Verizon Wireless transmitters is calculated at 14% of the FCC's public exposure limit, at top-floor elevation of any nearby building. The three dimensional perimeter of RF levels equal to the public exposure limit extends 76 feet (straight out from the antennas and to much lesser distances above, below, and to the sides), 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 the area (34 feet) directly in front of the antenna while it is in operation.

- 10. **Coverage and Capacity Verification.** The maps, data, and conclusion provided by Verizon Wireless to demonstrate need for outdoor and indoor 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 four times a year, and on an as-needed basis to service and monitor the facility.
- 12. **Community Outreach.** Per the *Guidelines*, the Project Sponsor held a community meeting at the Ebenezer Lutheran Church (also known as "herchurch"), at 678 Portola Drive, to discuss the Project at 6:00 p.m. on August 20, 2015. No community members attended the meeting.
- 13. **Five-year plan:** Per the Guidelines, the Project Sponsor submitted an updated five-year plan, as required, in April 2015.
- 14. **Public Comment.** As of September 24, 2015, the Department has received no public comment regarding 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 209.1, a Conditional Use Authorization is required for the installation or major modification (e.g. increase in number of panel antennas beyond the number initially authorized, or addition of new equipment areas) of a macro Wireless Telecommunications Services 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 complies with said criteria in that:
 - A. The proposed new uses and building, at the size and intensity contemplated and at the proposed location, will provide a development that is necessary or desirable, and compatible with, the neighborhood or the community.
 - 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.

The proposed Project at 678 Portola Drive is generally desirable and compatible with the surrounding neighborhood because the Project will not conflict with the existing uses of the property and will be designed to be compatible with the surrounding neighborhood. The screened nature of the panel antennas and minimal aesthetic effects of the (painted) GPS antenna and conduit would avoid impairing views 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 678 Portola Drive is necessary in order to achieve sufficient street and in-building mobile phone coverage and data capacity. Recent drive tests in the subject area conducted by the Verizon Wireless Radio Frequency Engineering Team provide that the Project Site is a preferable location, based on factors including quality of coverage and aesthetics.

B. The proposed project will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity. There are no features

of the project that could be detrimental to the health, safety or convenience of those residing or working the area, in that:

i. 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 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 proposed antennas and equipment areas would not affect landscaping, open space, required parking, lighting or signage at the Project Site or surrounding area.

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

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

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

The Project Site is not located within a Neighborhood Commercial District.

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

HOUSING ELEMENT Objectives and Policies

BALANCE HOUSING CONSTRUCTION AND COMMUNITY INFRASTRUCTURE

OBJECTIVE 12:

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

Policy 12.3:

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

The Project will improve Verizon Wireless's coverage and capacity within the Twin Peaks neighborhood.

URBAN DESIGN ELEMENT Objectives and Policies

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 proposed Project would involve the removal of an existing unscreened panel antenna mounted to a primary façade. All of the proposed antennas would remain screened within the church steeple. The equipment areas would also remained screened from off-site view with the exception of conduit along the roofline and a GPS antenna. Where visible, the conduit and GPS antenna would be painted to match the building, and be installed in such a manner so as to reduce their visibility. Therefore, the proposed modification would remove the most distracting elements, such as the existing unscreened panel antenna. COMMERCE AND INDUSTRY ELEMENT Objectives and Policies

OBJECTIVE 1:

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

Policy 1.1:

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

Policy 1.2:

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

The Project 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 2.1:

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

Policy 2.3:

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

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

OBJECTIVE 4:

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

Policy 4.1:

Maintain and enhance a favorable business climate in the City.

Policy 4.2:

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

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

Policy 8.3:

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

The Project would ensure that residents and visitors have adequate public service in the form of Verizon Wireless telecommunications.

COMMUNITY SAFETY ELEMENT Objectives and Policies

OBJECTIVE 3:

ESTABLISH STRATEGIES TO ADDRESS THE IMMEDIATE EFFECTS OF A DISASTER.

Policy 1.20

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

Policy 2.4

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

Policy 2.15

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

Policy 3.7:

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

The Project 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.

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

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

The Project Site does not feature residential dwellings. In addition, no adjacent 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.

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

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

Due to the nature of the Project and minimal maintenance or repair, municipal transit service 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 Project Site, and surrounding properties, does not include buildings that are considered known historic resources or landmarks. The Subject building was developed in 1955 and is considered a Potential Historic Resource. The proposed facility would be so designed as to avoid impairing views of, or the overall form of the Subject building.

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

The Project would have no adverse effect on parks or open space, or their access to sunlight or public 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 Conditional Use Authorization would promote the health, safety and welfare of the City.

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 (superseding Case No. 2002.1120C) under Planning Code Sections 209.1 and 303 to remove two (2) existing Verizon Wireless panel antennas and install a total of six (6) panel antennas and associated equipment at the Project Site as part of a wireless transmission network operated by Verizon Wireless on a Location Preference 1 (Preferred Location, Publicly-Used Structure) area according to the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines, within an RH-1(D) Residential-House, One-Family, Detached Zoning District, Scenic Streets Special Sign District, and a 40-X Height and Bulk District, and subject to the conditions of approval attached hereto as **Exhibit A**; in general conformance with the plans, dated August 18, 2015, and stamped "Exhibit B."

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 30-day period has expired) OR the date of the decision of the Board of Supervisors if appealed to the Board of Supervisors. For further information, please contact the Board of Supervisors at (415) 554-5184, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

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

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

Motion No. XXXXX Hearing Date: October 1, 2015

I hereby certify that the foregoing Motion was adopted by the Planning Commission on **October 1**, **2015**.

Jonas P. Ionin Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: October 1, 2015

EXHIBIT A

AUTHORIZATION

This authorization is for a Conditional Use Authorization (superseding Case No. 2002.1120C) under Planning Code Sections 209.1 and 303 to remove two (2) existing Verizon Wireless panel antennas and install a total of six (6) panel antennas and associated equipment at the Project Site as part of a wireless transmission network operated by Verizon Wireless on a Location Preference 1 (Preferred Location, Publicly-Used Structure) area according to the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines, within an RH-1(D) Residential-House, One-Family, Detached Zoning District, Scenic Streets Special Sign District, and a 40-X Height and Bulk District, and subject to the conditions of approval attached hereto as **Exhibit A**; in general conformance with the plans, dated August 18, 2015, and stamped "Exhibit B."

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 **October 1, 2015** 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.

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 thirty-six (36) months 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 thirty-six (36) months 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 thirty-six (36) months have passed since the Motion was approved.

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

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, <u>www.sf-planning.org</u>.

- 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:
 - a. Antennas and back up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual effects;
 - b. Rooftop installations shall be setback such that back up facilities are not viewed from the street;
 - c. Antennas attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
 - d. 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 415-575-9078, <u>www.sf-planning.org</u>.

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-planning.org</u>

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.sf-planning.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 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, *www.sf-planning.org*.

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, <u>www.sf-planning.org</u>

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, <u>www.sf-planning.org</u>

- 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 non-holiday weekday with the subject equipment measured while operating at maximum power.
- d. Testing, Monitoring, and Preparation. The Project Implementation Report shall be prepared by a certified professional engineer or other technical expert approved by the Department. At the sole option of the Department, the Department (or its agents) may monitor the performance of testing required for preparation of the Project Implementation Report. The cost of such monitoring shall be borne by the Project Sponsor pursuant to the condition related to the payment of the City's reasonable costs.
 - 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, *www.sf-planning.org*

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 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, wwww.sf-planning.org*
- 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, www.sfdph.org.*
- 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, <u>http://sfgov3.org/index.aspx?page=1421</u>

Zoning Map



Case Number 2015-007505CUA Verizon Wireless Macro WTS Facility 678 Portola Drive

Aerial Photo



SUBJECT PROPERTY



Case Number 2015-007505CUA Verizon Wireless Macro WTS Facility 678 Portola Drive

Parcel Map



SUBJECT PROPERTY

Case Number 2015-007505CUA Verizon Wireless Macro WTS Facility 678 Portola Drive

Sanborn Map*



SAN FRANCISCO PLANNING DEPARTMENT

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







verizon 67

119143 SF Portola 678 Portola Drive, San Francisco,CA **Photosims Produced On 6-30-2015**





Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. 119143 "Portola Drive") located at 678 Portola Drive 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)	5–80 GHz	5.00 mW/cm^2	1.00 mW/cm ²
WiFi (and unlicensed uses)	2-6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	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)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30-300	1.00	0.20

The site was visited by Mr. Brian F. Palmer, a qualified engineer employed by Hammett & Edison, Inc., during normal business hours on February 2, 2015, a non-holiday weekday, and reference has been made to information provided by Verizon, including zoning drawings by James Vaccaro Architect, Inc., dated March 31, 2015.

Checklist

1. <u>The location of all existing antennas and facilities at site. Existing RF levels.</u>

Verizon had installed two directional panel antennas on the Ebenezer Lutheran Church located at 678 Portola Drive, one on the east side of the main church building and one reportedly within the steeple. Also reportedly located within the tall steeple of the church were nine similar antennas for use by AT&T Mobility. Existing RF levels for a person at ground near the site were less than 7% of the most restrictive public exposure limit. The measurement equipment used was a Wandel & Goltermann Type EMR-300 Radiation Meter with Type 8 Isotropic Electric Field Probe (Serial No. P-0036). The meter and probe were under current calibration by the manufacturer.



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

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

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

There were no other WTS facilities observed within 100 feet of the site. Located on the three-story mixed-use building across Portola Drive, about 160 feet away, were observed antennas for use by Sprint and T-Mobile.

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

Verizon proposes to remove its existing antennas and to install six directional panel antennas – four Amphenol Model HEX454CW0000 and two Andrew Model SBNHH-1D65A – within the church steeple, above the AT&T antennas. The antennas would be mounted with up to 10° downtilt at an effective height of about 58½ feet above ground, 23 feet above the church roof, and would be oriented in pairs toward 70°T, 160°T, and 225°T. The location and number of the AT&T antennas is as noted in Item 1 above.

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 Verizon 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 power rating for the AT&T transmitters is 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 Verizon in any direction is 11,180 watts, representing simultaneous operation at 3,710 watts for AWS, 3,310 watts for PCS, and 4,160 watts for 700 MHz service; no operation on cellular frequencies is presently proposed from this site. The number of watts for the AT&T operation is assumed for the purpose of this study to be 10,000 watts, representing simultaneous operation at 2,100 watts for AWS, 5,300 watts for PCS, 1,600 watts for cellular, and 1,000 watts for 700 MHz service

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

The drawings show the antennas to be installed as described in Item 4 above. There were noted no buildings of similar height nearby.



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 Verizon operation by itself is calculated to be 0.039 mW/cm², which is 7.3% of the applicable public exposure limit. Ambient RF levels at ground level near the site are therefore estimated to be below 15% of the limit. The maximum calculated cumulative level, for the simultaneous operation of both carriers, at the top-floor elevation of any nearby building is 14% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend up to 76 feet out from the Verizon antenna faces and to much lesser distances above, below, and to the sides; this does not reach any publicly accessible areas.

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

Due to their mounting locations and height, the Verizon antennas would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access to the antennas, including employees and contractors of the wireless carriers and of the church. No access within 34 feet directly in front of the Verizon antennas themselves, such as might occur during certain maintenance activities outside the steeple, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that explanatory signs^{*} be posted on the steeple in front of the antennas, readily visible from any angle of approach to persons who might need to work within that distance. Similar measures should already be in place for the other carrier at the site; applicable keep-back distances for that carrier have not been determined as part of this study.

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, 2015. 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.

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



Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the proposed operation of the Verizon Wireless base station located at 678 Portola Drive in San Francisco, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Training authorized personnel and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

OFESS -13026 William F. Hammet ZEE M-20676 707/996-5200 Exp. 6-30-2015

May 5, 2015





City and County of San Francisco DEPARTMENT OF PUBLIC HEALTH Edwin M. Lee, Mayor Barbara A. Garcia, MPA, Director of Health

ENVIRONMENTAL HEALTH SECTION

Rajiv Bhatia, MD, MPH, Director of EH

Review of Cellular Antenna Site Proposals

Project Sponsor :	Verizon		Planner:	Omar Masry	
RF Engineer Consu	ltant:	Hammett and Edison		Phone Number:	(707) 996-5200
Project Address/Lo	cation:	678 Portola Drive			
Site ID: 1048		SiteNo.: 119	143		

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

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

X 1. The location of all existing antennas and facilities. Existing RF levels. (WTS-FSG, Section 11, 2b)

✓ Existing Antennas No Existing Antennas: 11

2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from the approved antennas. (WTS-FSG Section 11, 2b)

 \bullet Yes \bigcirc No

X 3. The number and types of WTS within 100 feet of the proposed site and provide estimates of cumulative EMR emissions at the proposed site. (WTS-FSG, Section 10.5.2)

 \odot Yes \bigcirc No

X 4. Location (and number) of the Applicant's antennas and back-up facilities per building and number and location of other telecommunication facilities on the property (WTS-FSG, Section 10.4.1a)

X 5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to the application (WTS-FSG, Section 10.4.1c)

Maximum Power Rating: 11180 watts.

X 6. The total number of watts per installation and the total number of watts for all installations on the building (roof or side) (WTS-FSG, Section 10.5.1).

Maximum Effective Radiant: 11180 watts.

- 7. Preferred method of attachment of proposed antenna (roof, wall mounted, monopole) with plot or roof plan. Show directionality of antennas. Indicate height above roof level. Discuss nearby inhabited buildings (particularly in direction of antennas) (WTS-FSG, Section 10.41d)
- 8. Report estimated ambient radio frequency fields for the proposed site (identify the three-dimensional perimeter where the FCC standards are exceeded.) (WTS-FSG, Section 10.5) State FCC standard utilized and power density exposure level (i.e. 1986 NCRP, 200 μw/cm²)

Maximum RF Exposure: 0.039 mW/cm² Maximum RF Exposure Percent: 7.3

9. Signage at the facility identifying all WTS equipment and safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. (WTS-FSG, Section 10.9.2). Discuss signage for those who speak languages other than English.

Public_Exclusion_Area	Public Exclusion In Feet:	76
Occupational_Exclusion_Area	Occupational Exclusion In Feet:	34

- **X** 10. Statement on who produced this report and qualifications.
- X
 Approved. Based on the information provided the following staff believes that the project proposal will comply with the current Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC standard 1986-NCRP Approval of the subsequent Project

 Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.

Comments:

There are 2 antennas operated by Verizon installed in the church steeple at 678 Portola Drive. Existing RF levels at ground level were around 7% of the FCC public exposure limit. ATT also operates antennas (9) at this location. Verizon proposes to remove the 2 existing antennas and install 6 new antennas. The antennas will be mounted at a height of about 58 feet above the ground. The estimated ambient RF field from the proposed Verizon transmitters at ground level is calculated to be 0.039 mW/sq cm., which is 7.3 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 76 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and steeple access points in English, Spanish and Chinese. Workers should not have access to within 34 feet 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

Signed:

Dated: 5/13/2015

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

COMMUNITY OUTREACH MEETING ON A WIRELESS COMMUNICATION FACILITY PROPOSED IN YOUR NEIGHBORHOOD

To: Neighbors within 500 feet of 678 Portola Drive, San Francisco, CA

Meeting InformationDate:Thursday, August 20, 2015Time:6:00 p.m.Where:Ebenezer Church678 Portola DriveSan Francisco, CA 94127	Verizon has applied for zoning approval to install antennas within the existing steeple at 678 Portola Drive in San Francisco. The proposed installation will enhance Verizon's network by adding more spectrum, resulting in faster and more reliable data streaming. This update will improve service for Verizon customers with significantly faster data rates for both uploading and downloading.
Applicant Verizon Wireless c/o Modus Inc. 149 Natoma St., 3 rd floor San Francisco, CA 94105 Verizon Site Information	You are invited to attend an informational community meeting on Thursday, August 20 at 6:00 p.m. at the Ebenezer Church at 678 Portola Drive. This project will be scheduled for a Planning Commission public hearing after the neighborhood meeting. Architectural plans and photo simulations will be available for your review at the meeting.
Address:678 Portola Drive San Francisco, CA 94127APN:2892/004Zoning:RH-1 (D)	If you are unable to attend the meeting and would like to request information, please contact Susan Zaca at (209) 275 – 8698 or at szaca@modus-corp.com. If you have any questions about the zoning process, you may contact Omar
Contact Information Susan Zaca	Masry, the project planner with the San Francisco Planning Department at (415) 575-9116 or omar.masry@sfgov.org.
149 Natoma St., 3 rd floor San Francisco, CA 94105 (209) 275 – 8698 szaca@modus-corp.com	NOTE: If you require an interpreter to be present at the meeting, please contact our office at (209) 275 – 8698 or szaca@modus-corp.com no later than August 7 and we will make every effort to provide you with an interpreter.
*This is not a Library Sponsored Program	

NOTIFICACIÓN DE REUNIÓN DE ALCANCE COMUNITARIO SOBRE UNA INSTALACIÓN DE COMUNICACIONES INALÁMBRICAS PROPUESTA PARA SU VECINDARIO A: Vecinos A Menos De 500 Pies De 678 Portola Drive, San Francisco, CA

Información de la reunión	
Fecha: Jueves,20 de agosto 2015	Verizon ha solicitado la aprobación de zonificación para instalar antenas dentro
Hora: 6:00 p.m.	de la torre existente en la azotea de 678 Portola Drive en San Francisco. La
Dónde: Ebenezer Church	modificación propuesta mejorará la red de Verizon añadiendo más espectro, lo
678 Portola Drive	que resulta en la transmisión de datos más rápida y más fiable. Esta
San Francisco, CA 94127	actualización mejorará el servicio para los clientes de Verizon con velocidades
Solicitante	de datos significativamente más rápidas, tanto para la carga y descarga.
Verizon	Usted está invitado a asistir a una reunión de la comunidad informativa el
c/o Modus Inc.	Jueves, 20 de agosto 2015 a las 6:00 pm en la iglesia Ebenezer. Este proyecto
149 Natoma St., 3 rd floor	será programado para una audiencia pública de la Comisión de Planificación
San Francisco, CA 94105	después de la reunión de vecinos. Planos y simulaciones fotográficas estarán
Verizon Información del lugar	disponibles para su revisión en la reunión.
Dirección: 678 Portola Drive	Si usted no puede asistir a la reunión y desea solicitar información, por favor
San Francisco, CA 94127	póngase en contacto con Susan Zaca al (209) 275 – 8698 o al szaca@modus-
APN: 2892/004	corp.com.
Zonificación: RH-1 (D)	Si usted tiene alguna pregunta sobre el proceso de zonificación, puede
Información de contacto	comunicarse con Omar Masry, el planificador de proyecto con el
Susan Zaca	Departamento de Planificación de San Francisco al (415) 575-9116 o
149 Natoma St., 3 rd floor	omar.masry @ sfgov.org.
San Francisco, CA 94105	***
(209) 275 - 8698	NOTA: Si necesita un intérprete esté presente en la reunión, por favor
szaca@modus-corp.com	póngase en contacto con nuestra oficina al (209) 275 – 8698 o szaca@modus-
*Este programa no es patrocinado por la	corp.com antes 7 de agosto de 2015. Haremos todo lo posible para
Biblioteca	proporcionar un intérprete.

社区外展会议上的无线通信设备的建议在你家附近 為了:在 500 英尺 678 Portola Drive 的鄰居,三藩市

 威瑞森公司已申请批准分区安装在现有的天线尖顶。拟议的变化将增强Verizon的网络增加更多的频谱,从而更快,更可靠的数据传输。Verizon的这一更新将改善客户服务和上传和下载的速度显著的数据传输速率。 你被邀请参加678的Portola大道,下午6:00信息社会发布会上周四,8月20日在Ebenzer教堂举行。会上,计划委员会公开听证会后,该项目将被安排在附近。建设规划和仿真将用来拍摄你的意见在会议上。如果您无法出席会议,并想请求信息,请联系苏珊卡茨火灾(209)275-8698或szaca@modus-corp.com。 如果您对分区过程中有任何疑问,您可以联系奥马尔·马斯里,该项目计划使用
旧金山企划部(415)575-9116或omar.masry@sfgov.org。 注:如果您需要一位翻译参加会议,请联系我们的办公室:(209)275-8698,或不晚于5月7日szaca@modus-corp.com,我们 将竭尽全力为您提供翻译。

Community Outreach Meeting Summary

678 Portola Drive (Verizon Site ID#: 119143)

August 20, 2015

6 pm

Ebenezer Lutheran Church

Present at the meeting: Representing Verizon: Susan Zaca, Land Use Planner, Modus, Inc David DeSmet, RF Engineer, Hammett & Edison Bill Hammett, RF Engineer, Hammett & Edison

Meeting attendees:

0 neighborhood residents

A notice for the community meeting was sent out to residents within a 500 foot radius of the cell site 3 weeks prior to the meeting. There were no inquiries regarding the project before the community meeting and no neighborhood residents attended the community meeting. It is our understanding the community is generally supportive and understanding of wireless antennas.

Meeting adjourned at 7pm.

Community Meeting: SF Portola Drive -- Wireless Telecommunication Facility

Location: 678 Portola Drive

Time: 6pm-7pm

<u>Email</u>	Affiliation
ddesmetCh-e.com	H&E Representative
	MODUS INC.
	MJE
	Email delesmetChre.com



WILLIAM F. HAMMETT, P.E. STANLEY SALEK, P.E. Robert P. Smith, Jr. Rajat Mathur, P.E. Andrea L. Bright, P.E. Neil J. Olij, P.E. Brian F. Palmer

Robert L. Hammett, P.E. 1920-2002 Edward Edison, P.E. 1920-2009

DANE E. ERICKSEN, P.E. CONSULTANT

BY E-MAIL SZACA@MODUS-CORP.COM

August 21, 2015

Ms. Suzan Zaca Modus, Inc. 149 Natoma Street, 3rd Floor San Francisco, California 94105

Dear Susan:

As you requested, we have conducted a review of the coverage maps that Verizon Wireless proposes to submit as part of its application package for proposed modifications to its existing base station located at 678 Portola Drive in San Francisco (Site No. 119143 "Portola Drive").

Executive Summary

We concur with the maps, data, and conclusions provided by Verizon. The maps provided to show the before and after conditions accurately represent the carrier's present and post-installation coverage.

Verizon has installed two directional panel antennas on the Ebenezer Lutheran Church located at 678 Portola Drive, one on the east side of the main church building and one reportedly within the steeple. Verizon proposes to remove its existing antennas and to install six directional panel antennas – four Amphenol Model HEX454CW0000 and two Andrew Model SBNHH-1D65A – within the church steeple, above the existing AT&T antennas. The antennas would be mounted with up to 10° downtilt at an effective height of about 58½ feet above ground, 23 feet above the church roof, and would be oriented in pairs toward 70°T, 160°T, and 225°T. The maximum effective radiated power proposed by Verizon in any direction is 11,180 watts, representing simultaneous operation at 3,710 watts for AWS, 3,310 watts for PCS, and 4,160 watts for 700 MHz service; no operation on cellular frequencies is presently proposed from this site

Verizon provided for review two coverage maps, attached for reference. The maps show Verizon's 4G LTE coverage in the area <u>before</u> and <u>after</u> the site is operational. Both the before and after LTE maps show four levels of coverage, which Verizon colors and defines as follows:

Green	Indoor
Yellow	In Car
Grey	On Street
Red	Edge of Coverage

We undertook a two-step process in our review. As a first step, we obtained information from Verizon on the software and the service thresholds that were used to generate its coverage maps. This carrier uses propriety software to produce the maps. The service thresholds that

Ms. Susan Zaca, page 2 August 21, 2015

Verizon uses to estimate service are in line with industry standards, similar to the thresholds used by other wireless service providers.

As a second step, we conducted our own drive test to measure the actual Verizon LTE 4G signal strength in the vicinity of the proposed site. Our fieldwork was conducted on August 19, 2015, between 11:00 AM and 4:05 PM. The field measurements were conducted using an Ascom TEMS Pocket network diagnostic tool with built-in GPS along a measurement route selected to cover all the streets within the map area that Verizon had indicated would receive improved service.

Based on the measurement data, we conclude that the Verizon 4G LTE coverage maps showing the service area without the proposed modifications represent areas of deficiency in the carrier's present coverage. The maps submitted to show the after coverage with the proposed modifications to the existing base station were reportedly prepared on the same basis as the maps of the existing conditions and so are expected to accurately illustrate the improvements in coverage.

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

Sincerely yours,

William F. Hammett, P.E.

bb Enclosures



EXISTING COVERAGE PLOT





EXISTING + PROPOSE COVERAGE PLOT





APPLICANT

VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598 CONTACT: WILLIAM WALTON PHONE: T.B.D. EMAIL: WILLIAM.WALTON@VERIZONWIRELESS.COM AGENT MODUS, INC. 149 NATOMA STREET, 3RD FLOOR SAN FRANCISCO, CA 94105 CONTACT: JAMES LEE PHONE: (415) 420-6002 EMAIL: JLEE@MODUS-CORP.COM PROPERTY OWNER EBENEZER EVANGELICAL LUTHERAN CHUCH SF 678 PORTOLA DRIVE SAN FRANCISCO, CA 94109 CONTACT: STACY BOORNE/ CHURCH PASTOR PHONE: (415) 265-8237 EMAIL: HERCHURCH@AOL.COM A.P.N.: OCCUPANCY TYPE: CONSTRUCTION TYPE: ZONING JURISDICTION: ZONING DESIGNATION: HEIGHT & BULK: LATITUDE (NAD 83): LONGITUDE (NAD 83): **GROUND ELEVATION: PROJECT INFORMATION**





SAN FRANCISCO, CA 94127

		REV.
		7
S, ABBREVIATIONS		7
ONFIG. SCHEDULE		7
		1
		1
		7
S AT EXISTING STEEPLE		7
JT		7
		7
	DATE	
	DATE	



& "L"	AND ANGLE	CONC. FL. COND	CONCRETE FLOOR CONDENSER	FIG FIN	FIGURE FINISH	MLDG MOD
@	AT	COND	CONDITION	FIXT	FIXTURE	MSB
/ ፍ_	ых CENTERLINE	CONN		flash Flex	FLASHING FLEXIBLE	MTG
° ~	DEGREE	CONT	CONTIUOUS	FLG	FLOORING	MTG. HT.
Ø =	EQUAL	CONTR	CONTRACTOR	FLR FLOUR	FLOURESCENT	MUL
(E)	EXISTING	COR	CORRIDOR	FPRF	FIREPROOF(ING)	MULT
"	FEEI INCH(ES)	CORR CPG	CORRUGATED	FR FRP	FRAME FIBER REINFORCED	MUT N
#	NUMBER	CPR	COPPER		PLASTIC	N.C.
/ %	PER PERCENT	CPT CR	CARPET CRUSHED	F I FTG	FEEI FOOTING	N.I.C. N.S.
£	PLATE	CSG	CASING	FUR	FURRED	N.T.S.
± A.B.	PLUS/ MINUS ANCHOR BOI T	CSK CSMT	COUNTERSINK	FURN FUT	FURNACE FUTURE	NFPA
ACOUST	ACOUSTICAL	CTG	COATING	G.B.	GRAB BAR	NO
A.E. ALT.	ARCHITECT/ ENGINEER ALTERNATE	CTR CU	CENTER CUBIC	G.C. G.F.	GENERAL CONTRACTOR GRANULAR FILL	NOM NORM
ASSOC.	ASSOCIATION	CY	CUBIC YARD(S)	G.I.	GALVANIZED IRON	NRC
ASSY. AUTO	ASSEMBLY AUTOMATIC	D.C.A. D.F.	DRAINAGE CONDUCTOR	G.R. G.S.	GUARDRAIL GALVANIZED STEEL	O. TO O.
AVER	AVERAGE	DF	DOUGLAS FIR	G.W.B.	GYPSUM WALL BOARD	0.C.
AWG B.A.	AMERICAN WIRE GAUGE	D.H. D.L.	DOUBLE HUNG DEAD LOAD	GA GA	GAGE GAUGE	0.D. 0.F.C.I.
B.M.	BENCH MARK	D.O.	DOOR OPENING	GAL	GALLON	
B.O. B.O.	BOTTOM OF BY OTHERS	D.S.P. D.W.	DRY STANDPIPE DRYWAI I	GALV GD	GALVANIZED GUARD	0.F.O.I.
B.P.	BASE PLATE	DBL	DOUBLE	GEN	GENERAL	O.F.S.
B.U. BUR	BUILT-UP	DEG DEMO		GSM	GLOBAL SYSTEM FOR	0/ 02
B.W.	BOTH WAYS	DEPT	DEPARTMENT	HDG	HOT DIPPED	OA
BATT BB	BATTERY BASEBOARD	DET DIA	DETAIL DIAMETER	HEX	GALVANIZED HEXAGONAL	OBS
BD	BOARD	DIAG	DIAGONAL	HOSP	HOSPITAL	OH
BDRM BEI	BEDROOM	DIM	DIMENSION(S)	HT HTG	HEIGHT	OPNG
BET	BETWEEN	DIST	DISTANCE	HVAC	HEATING, VENTILATION	OPPH
BEV	BEVELED				AND AIR CONDITIONING	
BITUM	BITUMINOUS	DN	DOWN	HWY	HIGHWAY	OVHG
BLDG	BUILDING	DOC	DOCUMENTS	I.D.	INSIDE DIAMETER	OWN.
BLKG	BLOCKING	DR	DOOR	IN	INCHE(S)	PORN. P
BLVD	BOULEVARD	DS	DOWNSPOUT		INCANDESCENT	P.B.
BOT	BOTTOM	DWG	DISHWASHER DRAWING	INCL	INFORMATION	P.C.P.
BRG	BEARING	E		INSL	INSULATION	P.L.
BRKT	BRACKET	E. TO E. E.B.	EXPANSION BOLT	INST	INTERIOR	P. LAM. PT
BSMT	BASEMENT	E.C.	ELECTRICAL CONDUIT	INTERM		PAR
BTN	BATTEN	E.C. E.F.	ELECTRICAL CONTRACTOR EACH FACE	INV ISOL	ISOLATE	PART. BD PCF
BVL	BEVEL	EGR	EMERGENCY GENERATOR	J.B.	JUNCTION BOX	
C C	CHANNEL COURSE	E.J.	RECEPTACLE EXPANSION JOINT	JAN JCT	JANITORS CLOSET	PED PERF
C. TO C.	CENTER TO CENTER	E.C.	ELECTRICAL PANEL	JNT	JOINT	PERM
C.B. C.F.C.I	CATCH BASIN CONTRACTOR FURNISH/	E.W. EA	EACH WAY EACH	JST K	JOIST KIP (1.000 LBS)	PERP PH
	CONTRACTOR INSTALL	EIFS	EXTERIOR INSULATION	K. PL.	KICK PLATE	PKWY
C.G.	CORNER GUARD	FI	AND FINISH SYSTEM	K.D. K.O	KNOCK DOWN	PL PLAS
C.I.P.	CAST IRON PIPE	ELAST	ELASTOMERIC	KIT	KITCHEN	PLAT
C.J.		ELB ELEC	ELBOW	KW	KILOWATT LENGTH	PLF PLYWD
C.L.	CENTERLINE	ELEV	ELEVATOR	L	LONG	PNL
C.L.F. C.M.P	CHAINLINK FENCE	EMER		L.B. L.F	LAG BOLT	PNT PORT
C.O.	CLEAN OUT	ENGR	ENGINEER	L.G.	LEAD GLASS	PPC
C.R.	COLD ROLLED	ENT	ENTRANCE	L.H.		
C.T.	CERAMIC TILE	EQUIP	EQUIPMENT	L.L.H.	LONG LEG	PREFIN
C.W.	COLD WATER	EST	ESTIMATE			PREP
C.W. C/O	CASED OPENING	EXH	EXHAUST	L.W.C.	LIGHT WEIGHT	PROP
CAB	CABINET	EXIST	EXISTING		CONCRETE	PSF
CEM	CEMENT	EXPD	EXPOSED	LAM		PSI
CEM	CEMENTITIOUS	EXT	EXTENSION	LAV		от
CEM. PLAS	CEMENT PLASTER	EX I EZBFO	EXTERIOR BATTERY CABINET	LB	LOCATION	PT
CER	CERAMIC	F	FACE	LT		PTD
CIR	CIRCLE	F. HYD. F. TO F.	FIRE HYDRANT FACE TO FACE	LIE LVR	LONG TERM EVOLUTION	PVC PVMT
CL. GL.	CLEAR GLASS	F.A.	FIRE ALARM	M		PWR
UL. W. GL.	CLEAR WIRE GLASS	F.B. F.D.	FLAT BAR FLOOR DRAIN	M.P. M.Q.	MACHINE BOLI MECHANICAL	R
CLG	CEILING	F.D.C.	FIRE DEPARTMENT		CONTRACTOR	R.C.
CLKG	CAULKING CLOSET	FF	CONNECTION FIRE EXTINGUISHER	M.C. M F	STRUCTURAL SHAPE	R.D. R D
CLR	CLEAR	F.E.C.	FIRE EXTINGUISHER	М.Н.	MANHOLE	R.H.
CLR CLRM	CLEARANCE CLASSROOM	FF	CABINET FINISH FLOOR	M.L. MACH	METAL LATH MACHINF	R.H.R R.O
CMU	CONCRETE	F.H.	FIRE HOSE	MAS	MASONRY	R.W.C.
	MASONRY UNIT	F.H. FHC	FLAT HEAD	ΜΑΤ ΜΑΧ	MATERIAL MAXIMUM	RAD
CO	COMPANY	F. JT.	FLUSH JOINT	MECH	MECHANICAL	RE
CO2	CARBON DIOXIDE	F.O.	FACE OF	MED MEMB	MEDIUM MEMBRANE	
COMB	COMBINATION	F.O.F.	FACE OF FINISH	MEZZ	MEZZANINE	RECT
		F.O.M.	FACE OF MASONRY	MFR		REF
COMPR	COMPRESSOR	FAB	FABRICATE	MIN	MINIMUM	REINF
COMPT		FBD		MIR		
CONC	CONCRETE	FDN	FOUNDATION	MK	MARK	REQ

ABBREVIATIONS

MOULDING MODULAR	REQD RESIL
MAIN SWITCHBOARD MOUNTED	RET REV
MOUNTING MOUNTING HEIGHT	RFG RGTR
	RM RR
MULTIPLE	RRU
NORTH	S S
NONCORROSIVE NOT IN CONTRACT	S.A.D.
NONSLIP NOT TO SCALE	S.B.
NATIONAL FIRE	S.D.
NUMBER	S.F. S.F.
NOMINAL NORMAL	S.G. S.G.D.
NOISE REDUCTION	S.H.
OUT TO OUT	S.T. SC
ON CENTER(S) OUTSIDE DIAMETER	SCH SEAL
OWNER FURNISH, CONTRACTOR INSTALLED	SECT SFP
OWNER FURNISH,	SERV
OUTSIDE FACE OF STUD	SF. GL SH
OVER OXYGEN	SHT SHTHG
OVERALL OBSOLETE	SHWR SIM
OFFICE	SKL
OPENING	SL SOF
OPPOSITE OPPOSITE HAND	SPC SPCG
ORIGINAL	SPEC
	SPKR
OWNER FURNISHED	SQ. IN.
PAGE PANIC BAR	SS ST
PORTLAND CEMENT	STAG
PLASTIC LAMINATED PRESSURE TREATED	STIFF
PARALLEL PARTICLE BOARD	STIR STL
POUND PER CUBIC	STOR
PEDESTAL	SUB
PERFORATED PERMANENT	SUP SUP
PERPENDICULAR PHASE	SUPP SUR
PARKWAY PLATE	SUSP
PLASTER	CLG.
PLATFORM	SW SWBD
PLYWOOD PANEL	SYM SYS
PAINT PORTABLE	T T&B
POWER PROTECTION	T&G
PREFABRICATED	т. ү . T.G.
PREFINISHED PREPARATION	T.O. T.O.C.
PROJECT PROPERTY	T.O.M.
POUNDS PER SQUARE	T.P.
POUNDS PER SQUARE	TECH
INCH PART	TELCO TEMP
POINT PAINTED	TEMP TERM
	TERR
POWER	THD
QUANTITY RADIUS	THR THRU
RETURN AIR RUBBER BASE	TLT TMA
	TRANS
RIGHT HAND REVERSE	TYP.
ROUGH OPENING RAIN WATER LEADER	U.N.O.
RADIUS ROAD	U.O.N.
	UC
RECEPTACLE	UL
RECTANGLE REFERENCE	
REFRIGERATOR REINFORCEMFNT	ULT UMTS
REPAIR	
	_

REQUIRED RESILIENT V.B. RETURN V.I.F. V.T.R. REVISION VAR ROOFING VENT REGISTER ROOM VERT RAILROAD VEST REMOTE RADIO UNIT VIN SINK VOL SOUTH W SEE ARCHITECTURAL W DRAWINGS W. CAB. SPLASH BLOCK W. GL. SOLID CORE W.C. STORM DRAIN WF SQUARE FOOT W.H. STORE FRONT W.H. SEMIGLOSS W.L. W.R. SLIDING GLASS DOOR SHOWER HEAD W.S. SQUARE YARD W.T.W. SCALE WWF WWM SCHEDULE W/ SEALANT SECTION W/O WD SEPERATION WHSE SERVICE WNDW GL SAFETY GLASS WP SHELF WSCT SHEET WΤ THG SHEATHING Х SHOWER Y.P. SIMILAR Y.S. SKYLIGHT YD SLAB SOFFIT SPACER SPACING **SPECIFICATION** ECS SPECIFICATIONS SPEAKER SQUARE SQUARE INCH . IN. STAINLESS STEEL STREET STAGGERED SOUND TRANSMISSION CLASS STANDARD STIFFENER STIRRUP STEEL STORAGE STRUCTURAL SUBSTITUTE SUPPLY SUPPORT SUPPLEMENT SURFACE SUSPENDED SUSPENDED CEILING SWITCH SWITCHBOARD SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TONGUE AND GROOVE TOWEL BAR TEMPERED GLASS TOP OF TOP OF CURB TOP OF MASONRY TOP OF WALL TOP OF PAVEMENT TUBE STEEL TECHNICAL TELEPHONE COMPANY LCO TEMPERATURE TEMPORARY **TERMINATE** TERRACE THREAD THICK THRESHOLD THROUGH TOILET TOWER MOUNTED AMPLIFIER ANS TRANSFORMER TAT THERMOSTAT TYPICAL **UNLESS NOTED** OTHERWISE UNLESS OTHERWISE NOTED UNDERCUT UNDERGROUND **UNDERWRITERS** LABORATORIES INCORPORATED ULTIMATE UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM UNEXCAVATED

UNFINISHED

VALVE BOX VERIFY IN FIELD VENT THROUGH ROOF VARIABLE VENTILATE VERTICAL VESTIBULE VINYL VOLUME WEST WIDE WALL CABINET WIRE GLASS WATER CLOSET WIDE FLANGE WALL HYDRANT WATER HEATER WATER LINE WATER-RESISTANT WEATHER STRIPPING WALL TO WALL WELDED WIRE FABRIC WELDED WIRE MESH WITH WITHOUT WOOD WAREHOUSE WINDOW WATERPROOF WAINSCOT WEIGHT BY (AS IS 6'X8') YIELD POINT YIELD STRENGTH YARD 3

VOLT

V



	Hybrid cable #1 (AWS) BR	Jumper #1 - Bl Jumper #1 - Bl Jumper #1 - Bl Jumper #2 - Bl Jumper #2 - Bl	AWS/A AWS/A	LPHA POWER LPHA FIBER 1 LPHA FIBER 2 ETA POWER ETA FIBER 1					盘 鱼				
		Jumper #2 - Bl Jumper #3 - Bl Jumper #3 - Bl Jumper #3 - Bl Jumper #4 - Bl	R/P/B/P/BR AWS/BI R/P/O/P AWS/GI R/P/O/P AWS/GI R/P/O/P AWS/GI R/P/O/P/BR AWS/GI R/P/Y/Y/P AWS/DI	ETA FIBER 2 AMMA POWER AMMA FIBER 1 AMMA FIBER 2 ELTA POWER									4.
		Jumper #4 - Bi Jumper #4 - Bi Jumper #5 - Bi Jumper #5 - Bi Jumper #5 - Bi Jumper #6 - Bi	R/P/Y/Y/P AWS/DI R/P/Y/Y/P/BR AWS/DI R/P/B/B/P AWS/EF R/P/B/B/P AWS/EF R/P/B/B/P AWS/EF R/P/B/B/P/BR AWS/EF R/P/0/0/P AWS/ZE	ELTA FIBER 1 ELTA FIBER 2 PSILON POWER PSILON FIBER 1 PSILON FIBER 2 ETA POWER				<u>=</u> <u>11.9</u> "	PLAN				
	Hybrid cable #2 (LTE) BR/BF	Jumper #6 - Bi Jumper #6 - Bi Jumper #1 - Bi Jumper #1 - Bi Jumper #1 - Bi	R/P/O/O/P AWS/ZE R/P/O/O/P/BR AWS/ZE R/BR/P/P/Y LTE/ALF R/BR/P/P/Y LTE/ALF R/BR/P/P/Y LTE/ALF	ETA FIBER 1 ETA FIBER 2 PHA POWER PHA FIBER 1 PHA FIBER 2									
		Jumper #2 - Bl Jumper #2 - Bl Jumper #2 - Bl Jumper #3 - Bl Jumper #3 - Bl Jumper #3 - Bl	R/P/P/B LTE/BET R/P/P/B LTE/BET R/BR/P/P/B/BR LTE/BET R/BR/P/P/O LTE/GA R/BR/P/P/O LTE/GA R/BR/P/P/O/BR LTE/GA R/BR/P/P/O/BR LTE/GA	A POWER A FIBER 1 A FIBER 2 MMA POWER MMA FIBER 1 MMA FIBER 2 TA DOWER				PIPE TYP. BSAM	MOUNTING KIT				
		Jumper #4 - 6 Jumper #4 - 8 Jumper #4 - 8 Jumper #5 - 8 Jumper #5 - 8 Jumper #5 - 8 Jumper #6 - 8	X/BR/P/P/Y/Y LTE/DEL X/BR/P/P/Y/Y LTE/DEL X/BR/P/P/Y/Y/BR LTE/DEL X/BR/P/P/B/B LTE/EPS X/BR/P/P/B/B LTE/EPS X/BR/P/P/B/BBR LTE/EPS X/BR/P/P/B/B/BR LTE/EPS X/BR/P/P/B/B/BR LTE/EPS	TA FIBER 1 TA FIBER 2 SILON POWER SILON FIBER 1 SILON FIBER 2 TA POWER					BAND PANEL	22.			
	Hybrid cable #3 (PCS) BR/BF	Jumper #6 - Bl Jumper #6 - Bl Jumper #1 - Bl Jumper #1 - Bl Jumper #1 - Bl Jumper #2 - Bl	A//BR/P/P/O/O LTE/ZET A//BR/P/P/O/O/BR LTE/ZET A/BR/BR/P/Y PCS/ALL	A FIBER 1 A FIBER 2 PHA POWER PHA FIBER 1 PHA FIBER 2 TA POWER				GAL\ MOU	V. ANTENNA				
		Jumper #2 - Bi Jumper #2 - Bi Jumper #3 - Bi Jumper #3 - Bi Jumper #3 - Bi Jumper #4 - Bi	K/BR/BR/P/B PCS/BE K/BR/BR/P/B/BR PCS/BE K/BR/BR/P/O PCS/GA K/BR/BR/P/O/BR PCS/GA K/BR/BR/P/O/BR PCS/GA K/BR/BR/P/O/BR PCS/GA K/BR/BR/P/Y/Y PCS/DE	IA FIBER 1 TA FIBER 2 .MMA POWER .MMA FIBER 1 .MMA FIBER 2 LTA POWER LTA FIBER 1									
		Jumper #4 - Bl Jumper #5 - Bl Jumper #5 - Bl Jumper #5 - Bl Jumper #6 - Bl Jumper #6 - Bl	&/BR/BR/P/Y/Y/BRPCS/DE&/BR/BR/P/B/BPCS/EPS&/BR/BR/P/B/BPCS/EPS&/BR/BR/P/B/B/BRPCS/EPS&/BR/BR/P/B/B/BRPCS/EPS&/BR/BR/P/O/OPCS/ZES&/BR/BR/P/O/OPCS/ZES	LTA FIBER 2 SILON POWER SILON FIBER 1 SILON FIBER 2 TA POWER TA FIBER 1				FRONT ELEVATION	SIDE ELE				
	Hybrid cable #1 BR (AWS/LTE)	Jumper #6 - Bi Jumper #1 - Bi Jumper #1 - Bi Jumper #1 - Bi Jumper #2 - Bi Jumper #2 - Bi	&/BR/BR/P/O/O/BR PCS/ZE* &/P/Y/P AWS/A &/P/Y/P AWS/A &/P/Y/P/BR AWS/A &/P/Y/P/BR AWS/A &/P/B/P AWS/B &/P/B/P AWS/B	TA FIBER 2 LPHA POWER LPHA FIBER 1 LPHA FIBER 2 ETA POWER ETA FIBER 1				ANDREW SBNH	HH-1D65A DIMENSIONS				AMPHENO
		Jumper #2 - Bi Jumper #3 - Bi Jumper #3 - Bi Jumper #3 - Bi Jumper #4 - Bi Jumper #4 - Bi	&/P/B/P/BR AWS/BI &/P/O/P AWS/GJ &/P/O/P AWS/GJ &/P/O/P/BR AWS/GJ &/P/O/P/BR AWS/GJ &/P/P/Y LTE/ALF &/P/P/Y LTE/ALF	ETA FIBER 2 AMMA POWER AMMA FIBER 1 AMMA FIBER 2 PHA POWER PHA FIBER 1				HEIGHT WIDTH DEPTH ANDREW SB	55" 11.9" 7.1" NHH-1D65A WEIGHT				HEIGHT WIDTH DEPTH <u>AMPHEN</u>
		Jumper #4 - Bi Jumper #5 - Bi Jumper #5 - Bi Jumper #5 - Bi Jumper #6 - Bi Jumper #6 - Bi	X/P/P/Y/BR LTE/ALF X/P/P/B LTE/BET X/P/P/B LTE/BET X/P/P/B LTE/BET X/P/P/B/BR LTE/BET X/P/P/O LTE/GAT X/P/P/O LTE/GAT X/P/P/O LTE/GAT	A FIBER 2 A POWER A FIBER 1 A FIBER 2 MMA POWER MMA FIBER 1 MMA FIBER 2				ANTENNA WEIGHT MOUNTING KIT WEIGHT TOTAL WEIGHT	33.5 LBS. Г 12.3 LBS. 45.8 LBS.				ANTENNA WE MOUNTING KIT TOTAL WEI
HYBRID	CABLE COLO	R CODE S	CHEDULE			4 A	ANTENNA SPE	CIFICATIONS (BE	TA SECTOR)		3	ANTENNA	A SPECIFICATIONS
						A	NTENNA	A CONFIG	URATION		DULE		
ANTENI	NA SECTOR	MARK	# OF ANTENNAS	AZIMUTH	RAD C	ENTER	R ANTENN	A MAKE/ MODEL	# OF RRU UNITS	RRU UNIT	HYBRI LE	D CABLE NGTH	FEEDER JU CABLE
	ALPHA	A1	1	70°	±58'-7'	" A.G.L.	AMPHEN	OL-HEX454CW0000X		ERICSSON RRUS12	:	:165'	HYBRID
	ALPHA	A2	1	70°	±58'-7'	" A.G.L.	AMPHEN	DL-HEX454CW0000X	۵ 	ERICSSON RRUS12		:165'	HYBRID

ANTENNA SECTOR	MARK	# OF ANTENNAS	AZIMUTH	RAD CENTER	ANTENNA MAKE/ MODEL	# OF RRU UNITS	RRU UNIT	HYBRID CABLE LENGTH	FEEDER CABLE	JL
ALPHA	A1	1	70°	±58'-7" A.G.L.	AMPHENOL-HEX454CW0000X	2	ERICSSON RRUS12	±165'	HYBRID	
ALPHA	A2	1	70°	±58'-7" A.G.L.	AMPHENOL-HEX454CW0000X	3	ERICSSON RRUS12	±165'	HYBRID	
BETA	B1	1	160°	±58'-7" A.G.L.	ANDREW-SBNHH-1D65A	2	ERICSSON RRUS12	±165'	HYBRID	
BETA	B2	1	160°	±58'-7" A.G.L.	ANDREW-SBNHH-1D65A	3	ERICSSON RRUS12	±165'	HYBRID	
GAMMA	C1	1	225°	±58'-7" A.G.L.	AMPHENOL-HEX454CW0000X		ERICSSON RRUS12	±165'	HYBRID	
GAMMA	C2	1	225°	±58'-7" A.G.L.	AMPHENOL-HEX454CW0000X	3	ERICSSON RRUS12	±165'	HYBRID	
NOTE: THE INFORMATION PRO	DVIDED ABOVE M	IUST BE VERIFIED WIT	H MOST CURRENT RFD	S SHEET PRIOR TO ORDERI	ING/ INSTALLING ANY EQUIPMENT.	1			1	

ANTENNA CONFIGURATION SCREDULE







nd Projects 2008\MDSC1506\dwg\MDSC1506SV1.dwg Feb. 09, 2015 - 1:15pm

	VICINITY MAP NOT TO SCALE SAN FRANCISCO	DATE:	FEBRUARY 9,	2015
	SAN FRANCISCO COUNTY CALIFORNIA	DRAWN	BY: MAS	
		FILE N	0.: MDSC1506	
	WOODO		REVISIONS	
	PORTOLA AVENUL	DATE	DESCRIPTION	INITIAL
	Straughter Straughter	2/9/15	90% ISSUE	MAS
	SYDNEY WAY			
	The AVENUE			
	SAN JOSE			
	TO FRANCISCO 280 TO			
	SOUTH SAN OAKLAND			
			$\langle O \rangle$	
	<u>PROPERTY INFORMATION</u> Owner: <u>EBENEZER EVANGELICAL LUTHERAN CHURCH SAN FRANCISCO</u>		S:	6365
	Address: 678 PORTOLA DRIVE SAN FRANCISCO, CA 94127			79-(
	Site:SF_PORTOLA			5) 2
	SAN FRANCISCO, CA 94127			(92
	Assessor's Parcel Number: <u>2892–004</u> Height of Building/Tower: <u>62.5'±</u> A.G.L. TOP OF STEEPLE		C L F L F L F	FAX:
	Title Report: NO TITLE REPORT FURNISHED. EXCEPTIONS TO THE TITLE AND RESERVATIONS			329
	THEREFROM COULD NOT BE DETERMINED. BOUNDARY INFORMATION SHOWN IS COMPILED FROM AVAILABLE RECORD DATA.	,		79-6
	Legal Description: PROPERTY SITUATED IN THE CITY OF SAN FRANCISCO, COUNTY OF SAN FRANCISCO, STATE OF CALIFORNIA			5) 27
				(92
		1		TEL:
	<u>F'E'MA F'LOOD ZONE' DE'S'IGNATTON</u> National Flood Insurance Program County: SAN FRANCISCO			
	San Francisco does not participate in the FEMA program.			
ł	SURVEY DATA			
	<u>NAD 83 Datum:</u> Lat: <u>N 37*44'41.80"</u> Long: <u>W 122*27'11.54"</u>			D
	Datum Base: <u>NAD 83</u> Equipment Used: <u>Topcon Hiperlite Receiver</u> (See Note 2)			e e
	Site Ground Elevation: <u>595.6± AMSL (NAVD88) AT SOUTHEAST STEEPLE</u> Basis of Elevations: GLOBAL POSITIONING SYSTEM (GPS)		IN ESS INTERES IN ESS INTERES	, Ju 568 Phor
	(SEE NOTE 2) Basis of Bearings:			-6788
	GLOBAL POSITIONING SYSTEM (GPS) (SEE NOTE 2)			ublin, 154-
			and	01 DL (925)
	INOTES 1.) This is not a boundary survey. This is a specialized topographic map with property lines and easements being a graphic depiction of various information gathered from preliminary title property heads use of second many and guilable measurements found during the			
	field survey. No property monuments were set. No title research was performed by Quiet River Land Services, Inc.			
	2.) The latitude, longitude and elevation shown hereon were derived from post-processed $L-1/L-2$ data collected using Navstar Global Positioning System (GPS) and a Topcon Hiperlite Receiver. Topcon specifications report decimeter level accuracy (horizontally) when data is proverly collected and processed (Elevation = ± 3.0 feet)			
	3.) Unless otherwise noted, no underground utility locating service company was contacted prior to this map being prepared; therefore, there may be non-visible or obscure utilities			
	 4.) Any electronic digital media provided by Quiet River Land Services, Inc. to our client is a courtesy and is not to be reproduced, distributed, sold, altered, revised, edited or amended 			
	without the express written consent of an Officer of Quiet River Land Services, Inc. Further, only the final stamped, signed and dated original "hard copy" version of our survey or map is considered to be our legally recognized product.	EXIS	IING SITE CONDIT	IONS
	SURVEYOR'S STATEMENT			
	I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California do hereby state that the information, measurements, easements, record boundary lines, begings and distances as shown bereon are based upon a field survey as			
	dated above and upon items of public record and data contained in a title report, as referenced. Furthermore, the Latitude and Longitude coordinates are reported in NAD 83 Datum and are accurate to within ±15 feet horizontally, and the ground elevation, reported in NAD 9.000 Data is a feet within ±15 feet horizontally.			
	within the $1-A$ Accuracy Code designation as listed in the A.S.A.C. Information Sheet 91:003 and are accurate to the best of my knowledge and belief.			
	SIGNATURE DATE			
	LEGEND APN: ASSESSOR'S PARCEL NUMBER ASPHALT		119143	
	CP CONTROL POINT EL. ELEVATION CONCRETE			
	FH FIRE HYDRAN I CONTROL POINT FND. FOUND HT HEICHT O FOUND MONUMENT	SAN	070 PURTULA DRIVE I FRANCISCO, CA 94	127
	MON. MONUMENT O MONUMENT D 15 7			
	P.O.B. POINT OF BEGINNING P.O.C. POINT OF COMMENCEMENT × 12.3 SPOT ELEVATION		U1	
	PPPOWER POLE(TYP.)TYPICALTYPICAL		OF 2 SHEETS	





121.0°H TOP TOWER 121.0°H TOWER 121.0



DATE:	FEBRUARY 6, 2	2015
DRAWN	BY: MAS	
FILE NO.	: MDSC1506	
	REVISIONS	
DATE	DESCRIPTION	INITIAL
2/6/15 90	0% ISSUE	MAS
	CALLERINE CA 94598	IEL: (925) 2/9-6329 FAX: (925) 2/9-6365
	Interview Interview Interview Suite 200	Dublin, CA 94568 (925) 734-6788 Phone
EXISTI	NG SITE CONDITIO	ONS
	119143	
67 SAN 1	SF PORTOLA 78 PORTOLA DRIVE FRANCISCO CA 941	27
	C2 OF 2 SHEETS	

|--|





ADDER/ ERIZON CESS VIRELESS ANEL BE REMOVED	E) FER LOUVERED VENT PANEL VENT PANEL VENT PANEL VENT PANEL VENT PANEL	
EL P. OF (9) SECTOR)		2'-6") FRP VERED ENT VENT
DPOSED VERIZON WIRELESS VEGUIDE ENTRY PORT/ HYBRID BLE ROUTE	(E) STEEPLE LAYOUT (TOP LEVEL) (4	TH LEVEL)
ACCESS HATCH/ PROPOSED RIZON WIRELESS ACCESS O VERIZON WIRELESS 3315 PPRESSOR, TYP. OF (3)	±250° AZIMUTH	
PER SECTOR) O VERIZON WIRELESS RRU OF (9) TOTAL (3 PER STACKED)		
S LADDER/ D VERIZON ACCESS		±170° AZIMUTH
<u> </u>	(E) STEEPLE LAYOUT (INTERMEDIATE	E LEVEL) (3RD







		ES:		
	<u>NOTE</u> ●	REPLACE ALL (E) DAMAGED FRAMING LIKE & KIND AT (E) STEEPLE. REMOVE	MEMBERS IN & REPLACE (E)	
	•	CEMENT PLASTER & SHEATHING & PA EXISTING VERIZON WIRELESS REPEA ^T MOUNTING PIPES, BRACKETS, AND AS CABLING/ CONDUIT TO BE REMOVED. AND PAINT AREAS OF REMOVED BRAC	AINT TO MATCH. TER ANTENNA(S), SSOCIATED PATCH, SEAL CKETS AND	
	•	MOUNTS. ANY ABANDONED ANTENNAS OR DISH	HES TO BE	
		REMOVED		
		◆ TOP OF (E) ROOF ±35'-5" A.G.L.		
			WIRELESS REPEAT PANEL ANTENNA & MOUNT TO BE	ER
			REMOVED (E) BUILDING	
			(E) AT&T	
			CABLE TRAY	
			(E) WOOD	
			SLAT FENCE (E) AT&T EQUIPMEI	
			LOCATION (BEHIND	I FEINGE)
			LOCATION (BEHIND	FENCE)
PROPOSE	D SOUTH ELEVAT	TION	LOCATION (BEHIND	, FENCE)
PROPOSE	D SOUTH ELEVAT	ΓΙΟΝ		
PROPOSE	 D SOUTH ELEVAT ◆ TOP OF (E) CROSS ±73'-5" A.G.L. ◆ TOP OF (E) STEEPLE ±62'-6" A.G.L. 			
PROPOSE	 D SOUTH ELEVAT TOP OF (E) CROSS ±73'-5" A.G.L. TOP OF (E) STEEPLE ±62'-6" A.G.L. TOP OF (E) FRP LOUVERE ±60'-7" A.G.L. 			FENCE)
PROPOSE	 D SOUTH ELEVAT TOP OF (E) CROSS ±73'-5" A.G.L. TOP OF (E) STEEPLE ±62'-6" A.G.L. TOP OF (E) FRP LOUVERE ±60'-7" A.G.L. BOTTOM OF (E) FRP LOUVERE ±56'-7" A.G.L. 	ED VENT		
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PROPOSE	 D SOUTH ELEVAT [↑] TOP OF (E) CROSS [±]73'-5" A.G.L. [↑] TOP OF (E) STEEPLE [±]62'-6" A.G.L. [↑] TOP OF (E) FRP LOUVERE [±]60'-7" A.G.L. [↑] BOTTOM OF (E) FRP LOUVERE [±]55'-2" A.G.L. [↑] TOP OF (E) AT&T PANEL / [±]54'-2" A.G.L. [↑] TOP OF (E) AT&T PANEL / [±]48'-1" A.G.L. [↑] BOTTOM OF (E) FRP LOUV [±]42'-5" A.G.L. [↑] TOP OF (E) ROOF [±]35'-5" A.G.L. [↑] 	TION ED VENT VERED VENT ED VENT ANTENNAS ANTENNAS ANTENNA VERED VENT ANTENNA VERED VENT APROPOSED VERIZON WIRELESS RRU UNIT, TYP. OF (9) TOTAL (3) SECTOR) (WITHIN (E) STEEPLE) PROPOSED VERIZON WIRELESS SECTOR) (WITHIN (E) STEEPLE) PROPOSED VERIZON WIRELESS (E) TOWER PROPOSED VERIZON WIRELESS HYBRID CABLE ROUTE IN CONDUIT. MOUNT TO (E) SOFFI VIA UNISTRUT. PAINT TO MATCH	LOCATION (BEHIND	
PROPOSE	 D SOUTH ELEVAT TOP OF (E) CROSS ±73'-5" A.G.L. TOP OF (E) STEEPLE ±62'-6" A.G.L. TOP OF (E) FRP LOUVERE ±60'-7" A.G.L. BOTTOM OF (E) FRP LOUVERE ±55'-2" A.G.L. TOP OF (E) AT&T PANEL / ±54'-2" A.G.L. TOP OF (E) AT&T PANEL / ±48'-1" A.G.L. BOTTOM OF (E) FRP LOUV ±42'-5" A.G.L. TOP OF (E) ROOF ±35'-5" A.G.L. 	TION D VENT VERED VENT D VENT ANTENNAS ANTENNA VERED VENT ANTENNA VERED VENT ANTENNA VERED VENT AP2 PROPOSED VERIZON WIRELESS RRU UNIT, TYP. OF (9) TOTAL (3) SECTOR) (WITHIN (E) STEEPLE) PROPOSED VERIZON WIRELESS AP2 OF (3) TOTAL (WITHIN (E) STEEPLE) PROPOSED VERIZON WIRELESS HYBRID CABLE ROUTE IN CONDUIT. MOUNT TO (E) SOFFIT VIA UNISTRUT. PAINT TO MATCH (E) WOOD SLAT FENCE	LOCATION (BEHIND	

FROFUSED EAST ELEVATION

