



# SAN FRANCISCO PLANNING DEPARTMENT

---

## Executive Summary Conditional Use Authorization

HEARING DATE: JULY 15, 2010

*Date:* July 8, 2010  
*Case No.:* **2010.0265**  
*Project Address:* **2601 Mission**  
*Zoning:* Mission Street Neighborhood Commercial Transit District  
40-X/65-B Height and Bulk District  
*Block/Lot:* 3637/069  
*Project Sponsor:* Clearwire  
182 2<sup>nd</sup> Street Suite 210  
San Francisco CA 95105  
*Staff Contact:* Diego R Sánchez – (415) 575-9082  
diego.sanchez@sfgov.org

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

Reception:  
**415.558.6378**

Fax:  
**415.558.6409**

Planning  
Information:  
**415.558.6377**

### PROJECT DESCRIPTION

The proposal is to install three panel antennas, one GPS antenna and associated equipment cabinets as part of a wireless transmission network operated by Clearwire on a Location Preference 2 (Co- Location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines. The proposal will provide 4G coverage in an area that lacks this service. Each antenna measures approximately 42" high by 12.7" wide by 2.8" thick. The antennas would be mounted to existing rooftop mechanical equipment rooms at a height of approximately 130 feet above grade. The project site is within the Mission Street Neighborhood Commercial Transit District and a 40-X/65-B Height and Bulk District.

### SITE DESCRIPTION AND PRESENT USE

The project is located at the southeast corner of Mission and 22<sup>nd</sup> Streets. The project site is a ten story commercial bank building, commonly known as the 'US Bank Building'. Since 2000, there have been four Conditional Use authorizations granted for the installation or relocation of multiple wireless telecommunications facilities at the site. The last case, in 2005, authorized the installation of four antennas.

### SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is located within the Mission neighborhood. Land uses in the immediate project vicinity are primarily neighborhood serving retail and residential. Adjacent zoning districts include the Mission NCT (Mission Street Neighborhood Commercial Transit), RTO-M (Residential Transit Oriented - Mission), NC-1 (Neighborhood Commercial Cluster) and P (Public) districts.

## ENVIRONMENTAL REVIEW

The proposed project was determined by the San Francisco Public Utilities Commission's Bureau of Environmental and Regulatory Management to be categorically exempt from the environmental review process pursuant to Class 3 exemptions of Title 14 of the California Administrative Code.

## HEARING NOTIFICATION

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	May 01, 2009	May 01, 2009	20 days
Posted Notice	20 days	May 01, 2009	April 29, 2009	22 days
Mailed Notice	20 days	May 01, 2009	April 29, 2009	22 days

## PUBLIC COMMENT

- The Department has received two telephone calls from the public enquiring about the proposal. Those calls were focused on the approval process and the health issues related to the proposal.

## ISSUES AND OTHER CONSIDERATIONS

- The Project will provide wireless 4G coverage in an area that lacks this service.

## REQUIRED COMMISSION ACTION

In order for the project to proceed, the Commission must grant the Conditional Use authorization pursuant to Planning Code Sections 736.83 and 303 to allow the installation of wireless facilities.

## BASIS FOR RECOMMENDATION

The Department believes this project is necessary and/or desirable under Section 303 of the Planning Code for the following reasons:

- The project complies with the applicable requirements of the Planning Code.
- The project is consistent with the objectives and policies of the General Plan.
- The Project is consistent with the 1996 WTS Facilities Siting Guidelines, Planning Commission Resolution No. 14182.
- The project site is a Location Preference 2, Co-Location, which is a preferred location, according to the Wireless Telecommunications Services (WTS) Siting Guidelines.

<b>RECOMMENDATION:            Approval with Conditions</b>
--

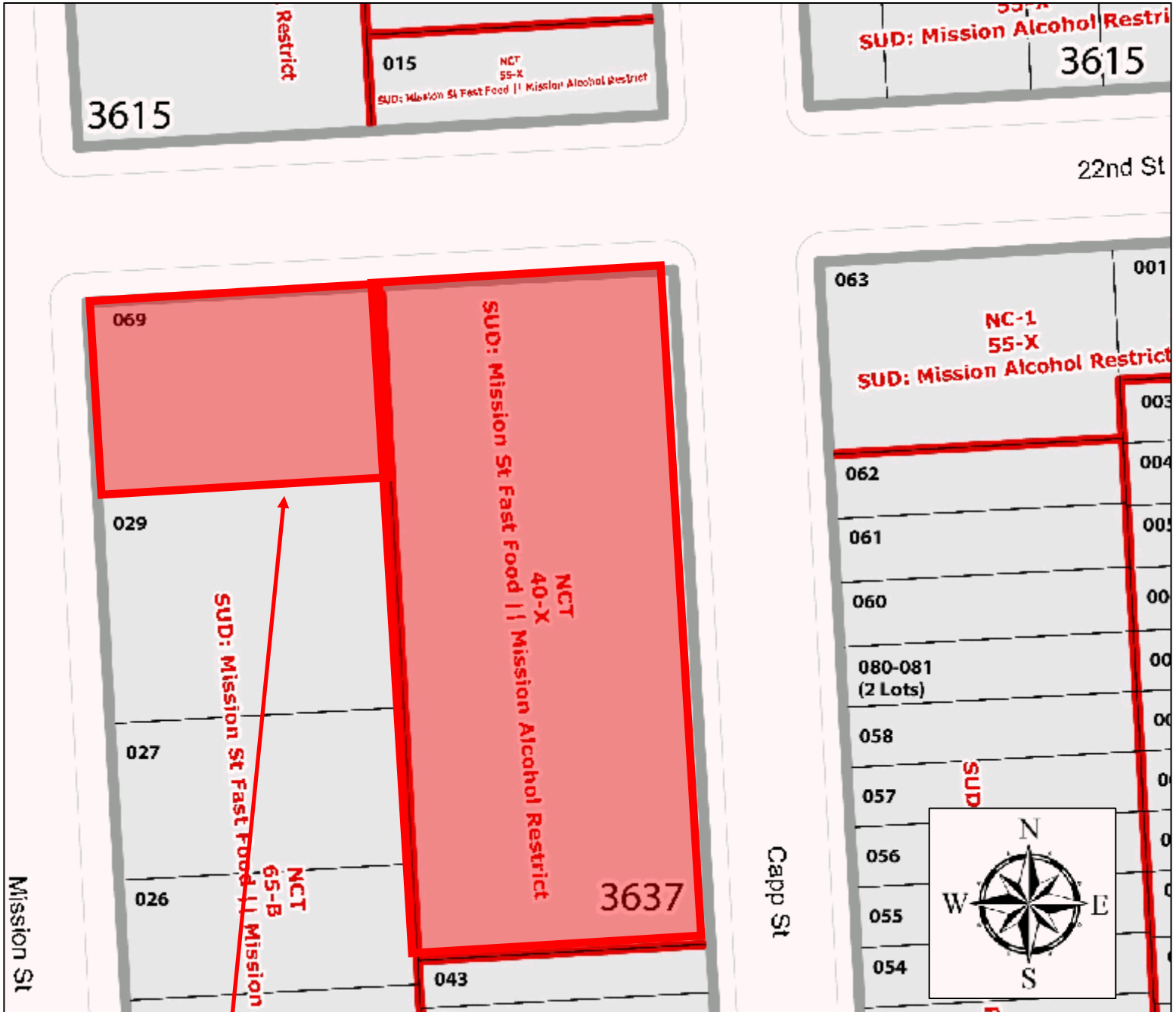
- Executive Summary
- Draft Motion
- Zoning District Map
- Height & Bulk Map
- Parcel Map
- Sanborn Map
- Aerial Photo
- Context Photos
- Site Photos

- Project sponsor submittal
- Drawings: Proposed Project
- Check for legibility

Exhibits above marked with an "X" are included in this packet \_\_\_\_\_  
Planner's Initials

*DRS G:\DOCUMENTS\Conditional Use\2601 Mission\Commission Packet\2601 Mission Executive Summary.doc*

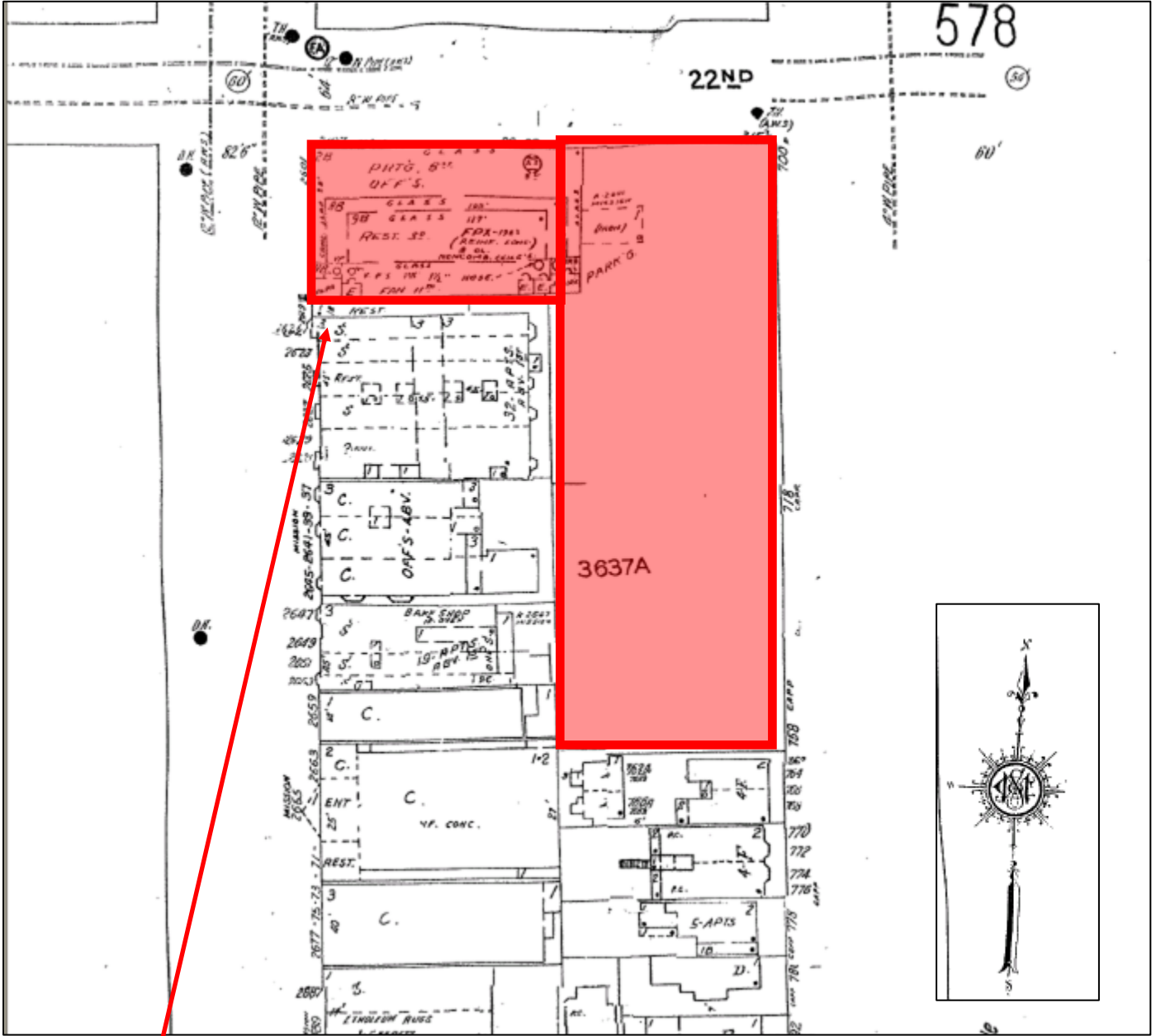
# Parcel Map



**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2010.0265C  
Wireless Transmission Facility  
2601 Mission Street

# Sanborn Map\*



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

**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2010.0265C  
Wireless Transmission Facility  
2601 Mission Street

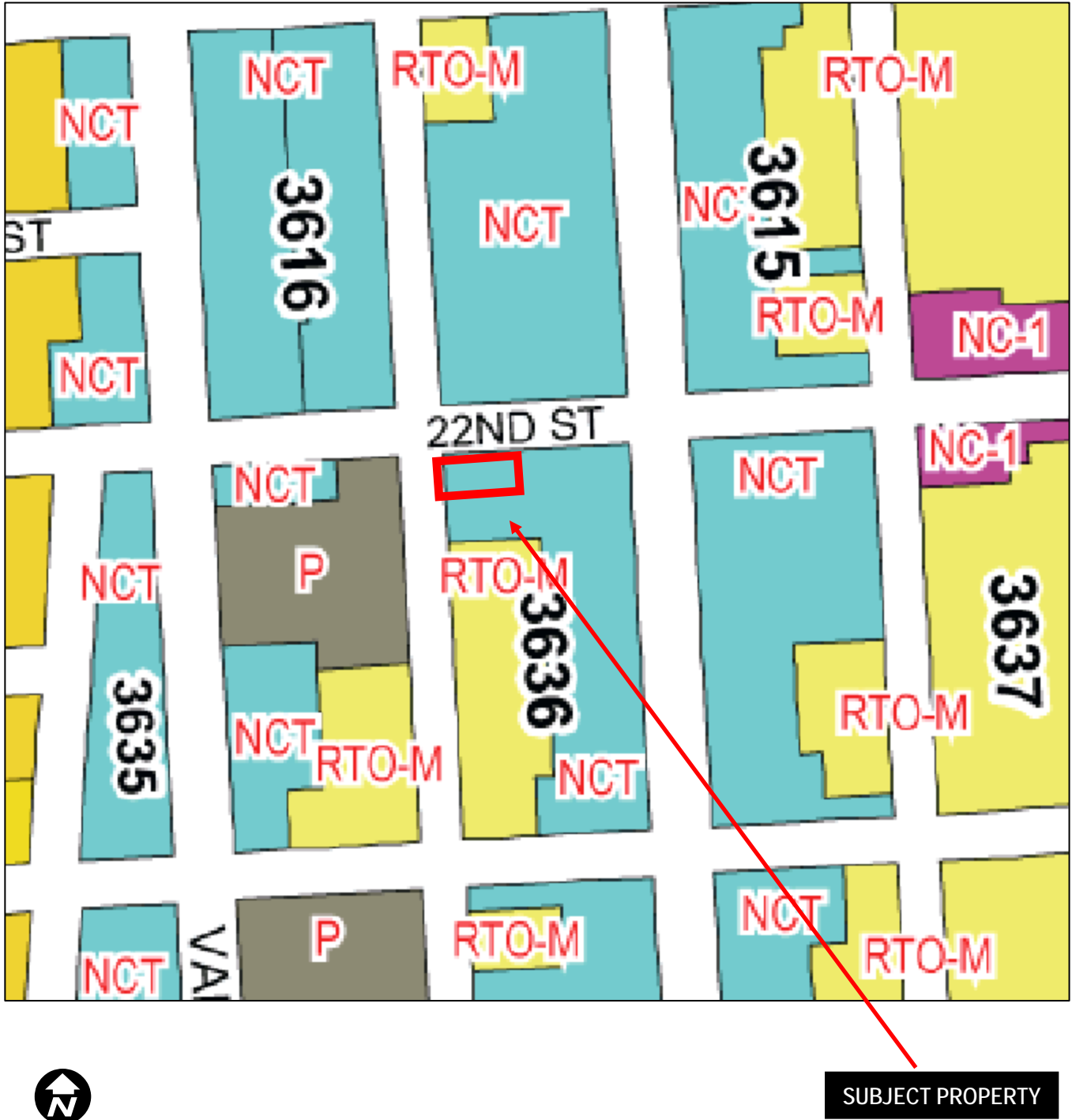
# Aerial Photo



SUBJECT PROPERTY

Conditional Use Hearing  
Case Number 2010.0265C  
Wireless Transmission Facility  
2601 Mission Street

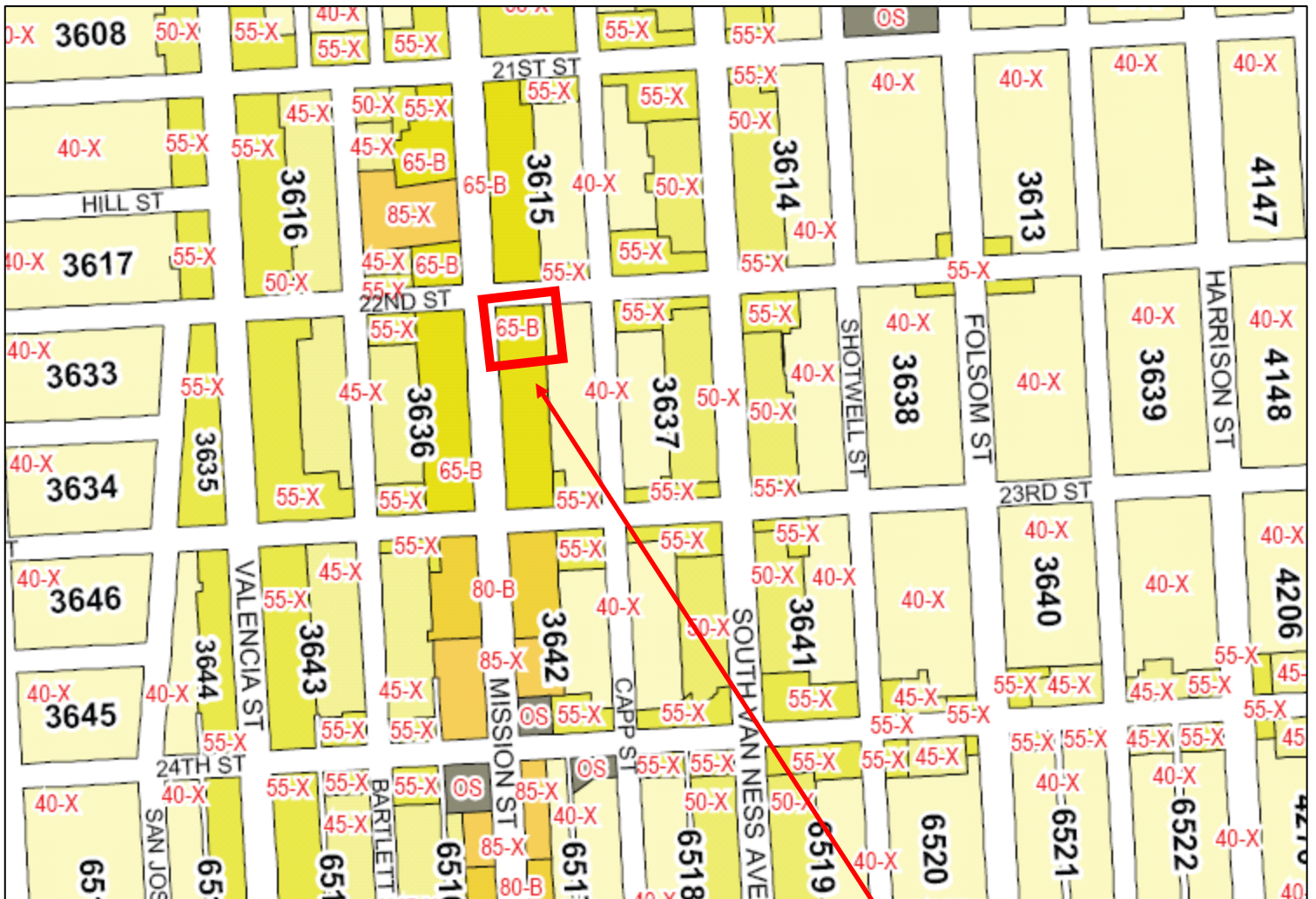
# Zoning Map



SUBJECT PROPERTY



# Height & Bulk Map



## HEIGHT AND BULK DISTRICTS

OS ← "Open Space" District

"Numbers" are Height Limits in feet. See Planning Code Section 250 and following.

"Letters" refer to Bulk Limits. See Planning Code Section 270.

00-Z-1 ← "Suffix Numbers" identify districts in which special regulations apply. See Planning Code Sections 263 and following.



**SUBJECT PROPERTY**



# Site Photo



Conditional Use Hearing  
Case Number 2010.0265C  
Wireless Transmission Facility  
2601 Mission Street



**Review of Cellular Antenna Site Proposals**

**Project Sponsor :** Clearwire **Planner:** Ionin  
**RF Engineer Consultant:** Hammitt and Edison **Phone Number:** (707) 996-5200  
**Project Address/Location:** 2601 Mission St  
**Site ID:** 1310 **SiteNo.:** SFO0212

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.

- 1. The location of all existing antennas and facilities. Existing RF levels. (WTS-FSG, Section 11, 2b)  
 Existing Antennas      No Existing Antennas: 30
- 2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from the approved antennas. (WTS-FSG Section 11, 2b)  
 Yes     No
- 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)  
 Yes     No
- 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)
- 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: 1220 watts.
- 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: 1220 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  $\mu\text{w}/\text{cm}^2$ )  
 Maximum RF Exposure: 0.00044  $\text{mW}/\text{cm}^2$       Maximum RF Exposure Percent: 0.044
- 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: 9  
 Occupational\_Exclusion\_Area      Occupational Exclusion In Feet: 2

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 0 antennas existing operated by Clearwire installed on the roof top of the building at 2601 Mission Street but there are over 30 antennas operated by other carriers located on the roof. Existing RF levels at ground level were around 2% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. Clearwire proposes to install 3 new antenna. The antennas are mounted at a height of 133 feet above the ground. The estimated ambient RF field from the proposed Clearwire transmitters at ground level is calculated to be 0.00044 mW/sq cm., which is 0.044 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 9 feet and does not reach any publicly accessible areas. Warnings signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Worker should not have access to within 2 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 S)

Signed:



Dated: 6/17/2010

Patrick Fosdahl

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

**Clearwire, LLC • Proposed Base Station (Site No. CA-SFO0212)  
2601 Mission Street • San Francisco, California**

**Statement of Hammett & Edison, Inc., Consulting Engineers**

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Clearwire, LLC, a wireless service provider, to evaluate the base station (Site No. CA-SFO0212) proposed to be located at 2601 Mission Street in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

**Background**

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of WTS 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)	5–23,000 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

The site was visited by Mr. Robert H. Taylor, a qualified field technician employed by Hammett & Edison, Inc., during normal business hours on March 3, 2010, a non-holiday weekday, and reference has been made to information provided by Clearwire, LLC, including zoning drawings by Michael Wilk Architecture, dated April 14, 2010.

**Checklist**

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

There were observed over thirty directional panel antennas installed on the nine-story US Bank office building for use by AT&T, MetroPCS, Sprint Nextel, and T-Mobile. Existing RF levels for a person at ground near the site were less than 1% of the most restrictive public exposure limit.

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

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

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

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

**Clearwire, LLC • Proposed Base Station (Site No. CA-SFO0212)**  
**2601 Mission Street • San Francisco, California**

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

Clearwire proposes install three Kathrein Model 840-10084 directional panel antennas behind view screens mounted above the roof, at an effective height of about 133 feet above ground, 17 feet above the roof. The antennas would be mounted with up to 2° downtilt and would be oriented at about 120° spacing, to provide service in all directions.

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

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

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

The maximum effective radiated power proposed by Clearwire in any direction is 1,220 watts, for BRS operations. The numbers of watts reported for AT&T, MetroPCS, Sprint Nextel, and T-Mobile are 4,970 watts, 1,890 watts, 1,914 watts, and 1,944 watts, respectively.

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

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

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

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed Clearwire operation itself is calculated to be 0.00044 mW/cm<sup>2</sup>, which is 0.044% of the applicable public exposure limit. Ambient RF levels for the proposed site are estimated to be below 2% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend up to 9 feet out from the antenna faces and to lesser distances above, below, and to the sides of the antennas; this does not reach the building roof or any publicly accessible areas.

9. Describe proposed signage at site.

Due to their mounting location, the Clearwire antennas would not be accessible to the general public, 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, no access within 2 feet directly in front of the Clearwire antennas themselves, such as might occur during maintenance work on the roof, should be allowed while the base station is in operation, unless other measures can be demonstrated to

**Clearwire, LLC • Proposed Base Station (Site No. CA-SFO0212)  
2601 Mission Street • San Francisco, California**

ensure that occupational protection requirements are met. Posting explanatory warning signs\* at the roof access doors and at the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines. Similar measures should already be in place for the other carriers at the site; applicable keep-back distances for those carriers 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 Registrations Nos. E-13026 and M-20676, which expire on June 30, 2011. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

**Conclusion**

Based on the information and analysis above, it is my professional opinion that the proposed Clearwire, LLC base station operation at 2601 Mission Street in San Francisco 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. Posting of explanatory signs is recommended to establish compliance with occupational exposure limitations.



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

June 8, 2010

\* Warning 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.





# Existing Coverage

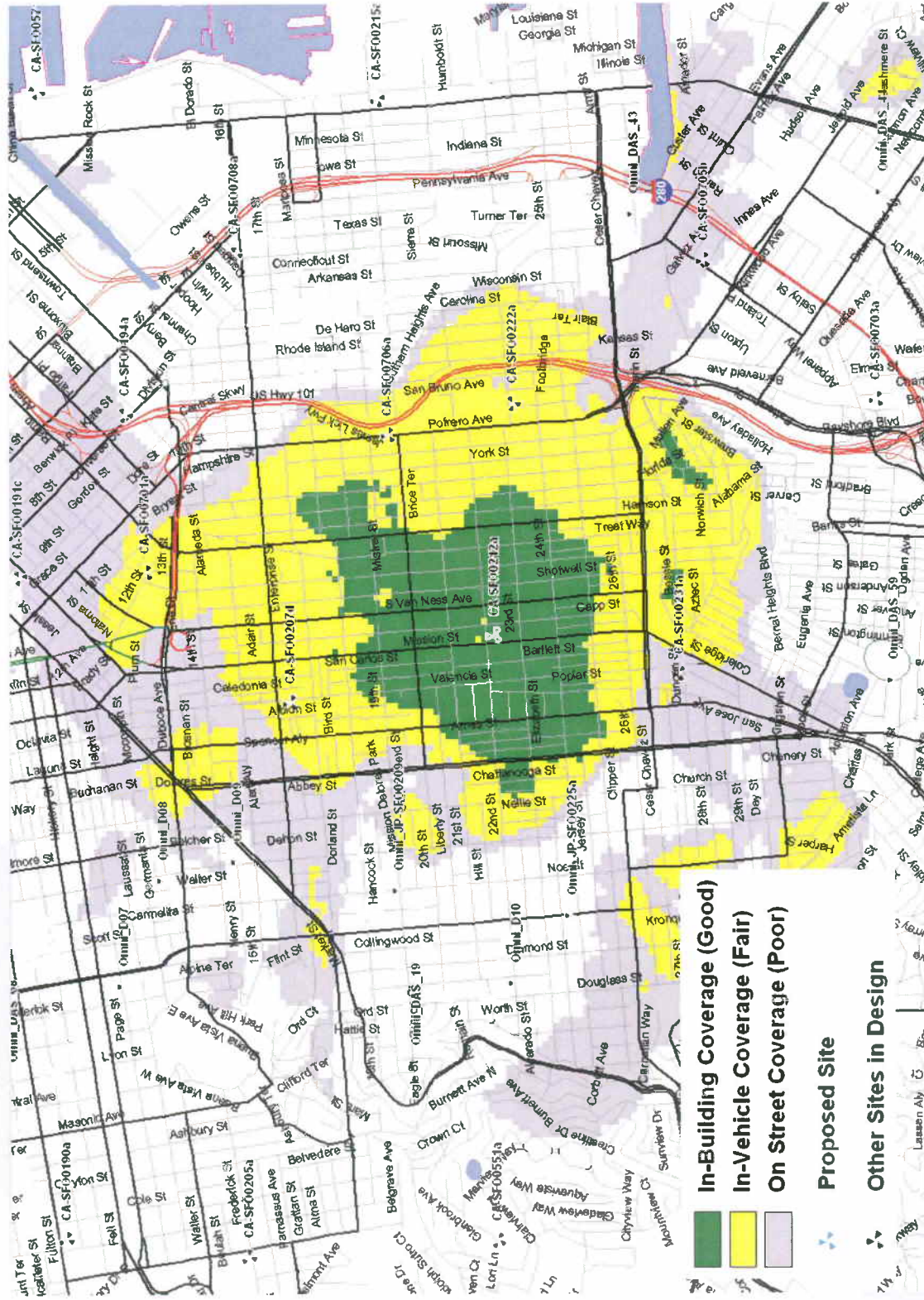


- In-Building Coverage (Good)
- In-Vehicle Coverage (Fair)
- On-Street Coverage (Poor)

- Proposed Site
- Other Sites in Design



# Coverage with CA-SFO0212



- In-Building Coverage (Good)
- In-Vehicle Coverage (Fair)
- On Street Coverage (Poor)
- Proposed Site
- Other Sites in Design







**Existing**



**Proposed**

**View of project site from Mission Street looking Southeast**



**SFO0212 MISSION DISTRICT  
2601 MISSION STREET, SAN FRANCISCO, CA**

**MICHAEL WILK ARCHITECTURE** **M W**



**Existing**



**Proposed**

**View of project site from Mission Street looking Southwest**



**SFO0212 MISSION DISTRICT  
2601 MISSION STREET, SAN FRANCISCO, CA**

**MICHAEL WILK  
ARCHITECTURE** **M  
W**



# SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)

- Inclusionary Housing (Sec. 315)
- Jobs Housing Linkage Program (Sec. 313)
- Downtown Park Fee (Sec. 139)
- Market & Octavia Fee(s) (Sec. 326)
- First Source Hiring (Admin. Code)
- Child Care Requirement (Sec. 314)
- Other

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

Reception:  
**415.558.6378**

Fax:  
**415.558.6409**

Planning  
Information:  
**415.558.6377**

## Planning Commission Motion No. XXXXX

HEARING DATE: JULY 15, 2010

*Date:* July 8, 2010  
*Case No.:* **2010.0265**  
*Project Address:* **2601 Mission**  
*Zoning:* Mission Street Neighborhood Commercial Transit District  
 40-X/65-B Height and Bulk District  
*Block/Lot:* 3637/069  
*Project Sponsor:* Clearwire  
 182 2<sup>nd</sup> Street Suite 210  
 San Francisco CA 95105  
*Staff Contact:* Diego R Sánchez – (415) 575-9082  
 diego.sanchez@sfgov.org

**ADOPTING FINDINGS RELATING TO CONDITIONAL USE AUTHORIZATION PURSUANT TO SECTIONS 303 AND 736.83 OF THE PLANNING CODE TO ALLOW THE INSTALLATION OF THREE PANEL ANTENNAS, ONE GPS ANTENNA AND ASSOCIATED EQUIPMENT CABINETS ON THE ROOF OF A TEN-STORY COMMERCIAL BUILDING WITHIN THE MISSION NEIGHBORHOOD COMMERCIAL TRANSIT DISTRICT AND A 40-X/65-B HEIGHT AND BULK DISTRICT.**

### PREAMBLE

On April 15, 2010, Joyce Chu, on behalf of Modus (hereinafter "Applicant"), agent for Clearwire (hereinafter "Project Sponsor") made application (hereinafter "Application"), for Conditional Use Authorization on the property at **2601 Mission, Lot 069 in Assessor's Block 3637**, (hereinafter "Project Site") to mount a total of three panel antennas, one GPS antenna and related equipment on the roof of a ten-story wholly commercial building, as part of Clearwire's telecommunications network in general conformity with plans dated April 14, 2010 and labeled "Exhibit B" (hereinafter "Project") within a Mission Neighborhood Commercial Transit District and a 40-X/65-B Height and Bulk District.

The San Francisco Planning Department (hereinafter "Department") determined the application to be categorically exempt from the environmental review process (CEQA) pursuant to exemption Classes 1, 3 and 11 of Title 14 of the California Administrative Code.



On July 15, 2010 the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on Conditional Use Application No. 2010.0265C.

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 requested in Application No. 2010.0265C, 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 is located at the southeast corner of Mission and 22nd Streets. The project site is a ten story commercial bank building, commonly known as the 'US Bank Building'. Since 2000, there have been four Conditional Use authorizations granted for the installation or relocation of multiple wireless telecommunications facilities at the site. The last case, in 2005, authorized the installation of four antennas.
3. **Surrounding Properties and Neighborhood.** The Project Site is located within the Mission neighborhood. Land uses in the immediate project vicinity are primarily neighborhood serving retail and residential. Adjacent zoning districts include the Mission NCT (Mission Street Neighborhood Commercial Transit), RTO-M (Residential Transit Oriented - Mission), NC-1 (Neighborhood Commercial Cluster) and P (Public) districts.
4. **Project Description.** The proposal is to install three panel antennas, one GPS antenna and associated equipment cabinets as part of a wireless transmission network operated by Clearwire on a Location Preference 2 (Co- Location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines. The proposal will provide 4G coverage in an area that lacks this service. Each antenna measures approximately 42" high by 12.7" wide by 2.8" thick. The antennas would be mounted to existing rooftop mechanical equipment rooms at a height of approximately 130 feet above grade. The project site is within the Mission Street Neighborhood Commercial Transit District and a 40-X/65-B Height and Bulk District.
5. **Public Comment.** The Department has received two telephone calls from the public enquiring about the proposal. Those calls were focused on the approval process and the health issues related to the proposal.

6. **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.** Planning Code Section 736.83 requires Conditional Use authorization for wireless telecommunication facilities within the Mission Neighborhood Commercial Transit District.

*The project is proposing a wireless transmission facility and is requesting Conditional Use authorization.*

- B. **WTS Guidelines.** The WTS Guidelines identify different types of buildings for the siting of wireless transmission facilities, with Location Preference 1 being the most desirable location and Location Preference 7 being the least desirable location

*The proposal qualifies as a Location Preference #2, Co-Location site and as such is a preferred site.*

7. **Planning Code Section 303** establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use approval. On balance, the project does comply with said criteria in that:

- A. That the proposed use or feature, at the size and intensity contemplated and at the proposed location, will provide a development that is necessary or desirable for, and compatible with, the neighborhood or the community.

*This geographic area lacks coverage for the 4G service. The proposed new facility will add 4G service, according to the existing and proposed coverage maps as provided by the Applicant.*

*The proposed project would be generally desirable and compatible with the surrounding neighborhood in that the project will not conflict with the existing uses of the property and will be of such size and nature to be compatible with the surrounding mixed-use and nature of the vicinity. The approval of this authorization has been found to enhance public safety, and insures that the placement of antennas and related equipment are so located, designed, and treated architecturally to minimize their visibility from public places, to avoid intrusion into public vistas, avoid disruption of the architectural design integrity of buildings and insure harmony with neighborhood character.*

- B. That such use or feature as proposed will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity, or injurious to property, improvements or potential development in the vicinity, with respect to aspects including but not limited to the following:

- i. The nature of the proposed site, including its size and shape, and the proposed size, shape and arrangement of structures;

*An evaluation of potential health effects from RF radiation, conducted by the Department of Public Health, has concluded that the proposed wireless transmission facility and cumulative effects of the existing facility are 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. The facility is an unmanned operation, with a single maintenance crew visiting the site once a month.*

- 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 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 installation of antennas on existing mechanical equipment penthouse will not affect the existing landscaping, open spaces, parking and loading areas, service areas or signs.*

- 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.*

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

## COMMERCE AND INDUSTRY ELEMENT

### Objectives and Policies

#### OBJECTIVE 1:

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

#### Policy 1:

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

#### Policy 2:

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

*The project would enhance the city living and working environment by providing communication services for residents and workers within the City. Additionally, the project would comply with Federal, State and Local performance standards.*

**OBJECTIVE 2:**

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

**Policy 1:**

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

**Policy 3:**

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

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

**OBJECTIVE 4:**

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

**Policy 1:**

Maintain and enhance a favorable business climate in the City.

**Policy 2:**

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

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

**VISITOR TRADE**

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

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

*The Project will ensure that residents and visitors have adequate public service in the form of 4G mobile telecommunication services.*

COMMUNITY SAFETY

EMERGENCY PREPAREDNESS & RESPONSE

**OBJECTIVE 3 - ENSURE THE PROTECTION OF LIFE AND PROPERTY FROM DISASTERS THROUGH EFFECTIVE EMERGENCY RESPONSE. PROVIDE PUBLIC EDUCATION AND TRAINING ABOUT EARTHQUAKES AND OTHER NATURAL DISASTERS AND HOW INDIVIDUALS, BUSINESSES AND COMMUNITIES CAN REDUCE THE IMPACTS OF DISASTERS.**

**POLICY 3.1** - Promote greater public awareness of disaster risks, personal and business risk reduction, and personal and neighborhood emergency response.

*Wireless telecommunications service is proven to provide critical service in the event of natural disasters or other life threatening emergency situations to residents, visitors, and emergency responders.*

9. **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 proposal will have no effect upon the neighborhood serving retail as the proposal is a wireless transmitting facility mounted on rooftop mechanical equipment.*

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 does not remove any existing housing. The Project's uses, size, scale, and design are consistent with the surrounding neighborhood.*

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

*Affordable housing is not affected by this Project.*

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

*Public transportation service will not be affected by this Project nor will it have any significant impact on neighboring streets or neighborhood parking.*

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 does not propose commercial office development.*

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

*The Project is designed and will be constructed to conform to the structural and seismic safety requirements of the Building Code.*

- G. That landmarks and historic buildings be preserved.

*The proposal will not adversely affect any landmarked or historic buildings.*

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

*There will be no significant impact on parks or open space and their access to sunlight nor there any significant impact on parks or open space vistas.*

- 10. 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.



**DECISION**

That based upon the Record, the submissions by the Applicant, the staff of the Department and other interested parties, the oral testimony presented to this Commission at the public hearings, and all other written materials submitted by all parties, the Commission hereby **APPROVES Conditional Use Application No. 2010.0265C** subject to the following conditions attached hereto as "EXHIBIT A" which is incorporated herein by reference as though fully set forth.

**APPEAL AND EFFECTIVE DATE OF MOTION: Any aggrieved person may appeal this Conditional Use Authorization to the Board of Supervisors within thirty (30) days after the date of this Motion 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.**

I hereby certify that the Planning Commission ADOPTED the foregoing Motion on July 15, 2010.

Linda Avery  
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: July 15, 2010

# Exhibit A

## Conditions of Approval

### GENERAL CONDITIONS

1. This authorization is for a Conditional Use Authorization under Planning Code Sections 303 and 736.83 to allow Clearwire to install a wireless transmission facility with three panel antennas, a GPS antenna and equipment cabinets on the roof of a commercial building, where a T-Mobile wireless facility and related equipment already exist, within the Mission Neighborhood Commercial Transit District and a 40-X/65-B Height and Bulk District, in general conformance with plans filed with the Application dated April 14, 2010, stamped "EXHIBIT B" and modified by the following conditions, included in the docket for Case No. 2010.0265C, reviewed and approved by the Commission on July 15, 2010.
2. **Plan Drawings.** 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.
3. **Project Implementation Report.** 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.
4. **Notification prior to Project Implementation Report.** 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.
5. **Community Liaison.** Within 10 days of the effective date of this authorization, the Project Sponsor shall appoint a community liaison officer to resolve issues of concern to neighbors and residents relating to the construction and operation of the facilities. Upon appointment, the Project Sponsor shall report in writing the name, address and telephone number of this officer to the Zoning Administrator. The Community Liaison Officer 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.
6. **Installation.** 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.
7. **Screening.**
  - a. 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:
    - i. Modify the placement of the facilities;
    - ii. Install fencing, barriers or other appropriate structures or devices to restrict access to the facilities;

- iii. 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; or
      - iv. Implement any other practice reasonably necessary to ensure that the facility is operated in compliance with adopted FCC RF emission standards.
    - b. To the extent necessary to minimize visual obtrusion and clutter, installations shall conform to the following standards:
      - c. Antennas and back-up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual impacts;
      - d. Rooftop installations shall be setback such that back-up facilities are not viewed from the street;
      - e. Antennae attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
      - f. 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.
8. **Out of Service.** The Project Sponsor or Property Owner shall remove antennae and equipment that has been out of service for a continuous period of six months or otherwise abandoned.
9. **Periodic Safety Monitoring.** 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.
10. **Emissions Conditions.** 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.
11. **Noise and Heat.** The WTS facility, including power source and cooling facility, shall be operated at all times within the limits of the San Francisco Noise 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.
12. **Implementation and Monitoring Costs.**
  - 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 the monitoring of the conditions of approval contained in this authorization, including costs incurred by this Department, the Department of Public Health, the Department of Electricity and Telecommunications, Office of the City

Attorney, or any other appropriate City Department or agency pursuant to Planning Code Section 351(f)(2). 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.
13. **All Conditions Basis for Revocation.** The Project Sponsor or its successors shall comply fully with all conditions specified in this authorization. Failure to comply with any condition shall constitute grounds for revocation under the provisions of Planning Code sections 174, 176 and 803(d). The Zoning Administrator shall schedule a public hearing before the Planning Commission to receive testimony and other evidence to demonstrate a finding of a violation of a condition of the authorization of the use of the facility and, finding that violation, the Commission shall revoke the Conditional Use authorization. Such revocation by the Planning Commission is appealable to the Board of Supervisors.
14. 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.
15. **Complaints and Proceedings.** Should any party complain to the Project Sponsor about the installation or operation of the facilities, which complaints are not resolved by the Project Sponsor, the Project Sponsor (or its appointed agent) shall advise the Zoning Administrator of the complaint and the failure to satisfactorily resolve such complaint. If the Zoning Administrator thereafter finds a violation of any provision of the City Planning Code and/or any condition of approval herein, the Zoning Administrator shall attempt to resolve such violation on an expedited basis with the Project Sponsor. If such efforts fail, the Zoning Administrator shall refer such complains to the Commission for consideration at the next regularly scheduled public meeting.
16. **Severability.** 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 of the remaining provisions, clauses, sentences, or sections of these conditions. It is hereby declared to be the intent of the Commission that these conditions of approval would have been adopted had such invalid sentence, clause, or section or part thereof not been included herein.
17. **Transfer of Operation.** 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.
18. **Compatibility with City Emergency Services.** The facility shall not be operated, nor 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.

19. **Notice of Recordation.** Prior to the issuance of any building permit for the construction of 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, which notice shall state that construction of the Project has been authorized by and is subject to the conditions of this Motion. From time to time after the recordation of such notice, at the request of the Project Sponsor, the Zoning Administrator shall affirm in writing the extent to which the conditions of this Motion have been satisfied, and record said writing if requested.
20. Violation of the conditions contained in this Motion or of any other provisions of the Planning Code may be subject to abatement procedures and fines up to \$500 a day in accordance with Planning Code Section 176.
21. Should monitoring of the Conditions of Approval contained in Exhibit A of this Motion be required, the Project Sponsor or successors shall pay fees as established in Planning Code Section 351(e)(1).
22. The authorization and right vested by virtue of this action shall be deemed void and canceled if, within 3 years of the date of this Motion, a site permit or building permit for the Project has not been secured by Project Sponsor. This authorization may be extended at the discretion of the Zoning Administrator only if the failure to issue a permit by the Department of Building Inspection is delayed by a city, state, or federal agency or by appeal of the issuance of such permit.



## 2601 Mission Street – Context Photographs



Figure 1 - Facing South from Capp/22nd Street



Figure 2 - Facing Southeast from Capp/22nd Street

2601 Mission Street – Context Photographs



Figure 3 - Facing East from Capp/22nd Street



Figure 4 - Facing Northeast from Capp/22nd Street



## 2601 Mission Street – Context Photographs



Figure 5 - Facing North from Capp/22nd Street



Figure 6 - Facing Northwest from Capp/22nd Street

## 2601 Mission Street – Context Photographs



Figure 7 - Facing West from Capp/22nd Street



Figure 8 - Facing South from Capp/22nd Street



## 2601 Mission Street – Context Photographs



Figure 9 - Facing West from Mission/22nd Street



Figure 10 Facing Southwest from Mission/22nd Street

## 2601 Mission Street – Context Photographs



Figure 11 - Facing South from Mission/22nd Street



Figure 12 - Facing Northwest from Mission/22nd Street



## 2601 Mission Street – Context Photographs



Figure 13 - Facing Northwest from Mission/22nd Street



Figure 14 - Facing North from Mission/22nd Street

## 2601 Mission Street – Context Photographs



Figure 15 - Facing North from Mission/22nd Street



Figure 16 - Facing Northeast from Mission/22nd Street



## 2601 Mission Street – Context Photographs



Figure 17 - Facing East from Mission/22nd Street



Figure 18 - Facing South from Mission/22nd Street

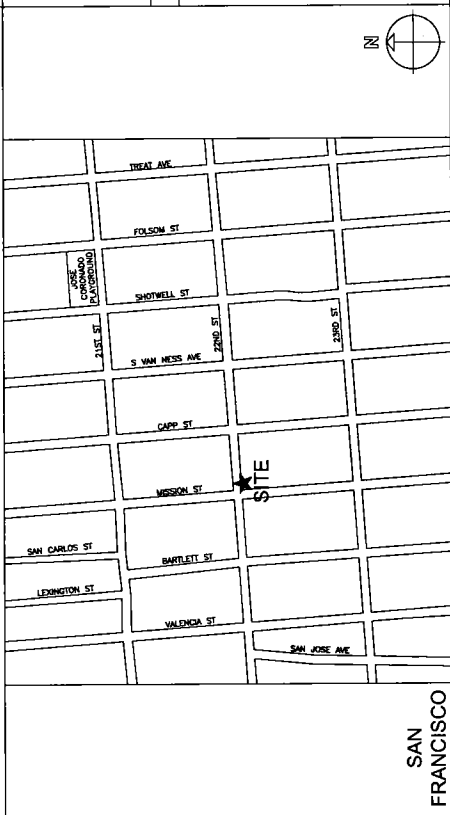


4400 CARILLON POINT, KIRKLAND, WA 98033

# SOUTH MISSION DISTRICT CA-SFO0212

2601 MISSION STREET  
SAN FRANCISCO, CA 94110

VICINITY MAP - N.T.S.



**DRIVING DIRECTIONS**

- FROM: CLEARWIRE REGIONAL OFFICE  
182 2ND ST., SUITE 210  
SAN FRANCISCO, CA 94103
- TO: 2601 MISSION STREET  
SAN FRANCISCO, CA 94110  
DISTANCE: 4.3 MILES
1. HEAD NORTHWEST ON 2ND ST TOWARD MISSION ST. 0.1 MI
  2. TURN LEFT AT 3rd STREET AND GO LEFT ON MISSION ST 1.5 MI
  3. TURN LEFT AT S VAN NESS AVE. 1.2 MI
  4. TAKE THE 2ND LEFT ONTO MISSION ST. DESTINATION WILL BE ON THE LEFT

**CODE COMPLIANCE**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY LOCAL PERMITTING AGENCIES TO THESE CODES:

1. CALIFORNIA ADMINISTRATIVE CODE (MCL)
2. 2007 CALIFORNIA PLUMBING CODE
3. 2007 CALIFORNIA ELECTRICAL CODE
4. 2007 CALIFORNIA MECHANICAL CODE
5. LOCAL BUILDING CODE
6. LOCAL PLUMBING CODE
7. 2007 CALIFORNIA FIRE CODE
8. LOCAL FIRE DEPARTMENT PERMIT WILL BE OBTAINED FROM SFD HEADQUARTERS AT 800 2ND STREET.

**BUILDING/SITE DATA LEGEND**

- 37° 45' 19.87" N (NAD83)  
132° 35' 07.42" W (NAD83)
- 72.18' ASEL (NAD 90)  
3837-089  
NC-1  
B  
I - FULLY SPRINKLERED  
20 SQ. FT.
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, HANDICAPPED ACCESS NOT REQUIRED.  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. TITLE 24 IS REQUIRED.

**CONSULTANT CONTACT**

**PROJECT CONTACT:**  
COY TRUST  
277 THIRD AVE. Q, 41118  
CONTRACT, PERM. CONT.  
PHONE: 415-750-3576

**ARCHITECT:**  
MICHAEL WILK ARCHITECTURE  
633 MARKET ST. SUITE 605  
SAN FRANCISCO, CA 94103  
CONTACT: COY TRUST  
PHONE: (415) 394-8384  
FAX: (415) 394-8388  
EMAIL: csh@clearwire.com

**CONSTRUCTION MANAGER:**  
CLEARWIRE  
533 MARKET ST. SUITE 605  
SAN FRANCISCO, CA 94103  
CONTACT: BOB MCK  
PHONE: (415) 394-8384  
FAX: (415) 394-8388  
EMAIL: rmc@clearwire.com

**LABOR MANAGER:**  
CLEARWIRE  
533 MARKET ST. SUITE 605  
SAN FRANCISCO, CA 94103  
CONTACT: BOB MCK  
PHONE: (415) 394-8384  
FAX: (415) 394-8388  
EMAIL: rmc@clearwire.com

**SHEET INDEX**

T1	TILE SHEET
T2	EQUIPMENT SPECIFICATIONS
A1	OVERALL SITE/ROOF PLAN
A2	ELEVATIONS
A3	ENLARGED ANTENNA LAYOUT PLANS

	182 2ND ST., SUITE 210 SAN FRANCISCO, CA 94103
	PROJECT INFORMATION <b>SOUTH MISSION DISTRICT</b> <b>CA-SFO0212</b> 2601 MISSION STREET SAN FRANCISCO, CA 94110 CITY OF SAN FRANCISCO
CURRENT ISSUE DATE: <b>04/14/10</b>	ISSUED FOR:
100% ZONING DRAWINGS	REV.: DATE DESCRIPTION BY:
0 04/14/10 100% ZONING DRAWINGS CA	PROJECT ARCHITECT/ENGINEER:
MICHAEL WILK ARCHITECTURE 633 MARKET STREET #605 SAN FRANCISCO, CA 94103 T: 415-394-8384 F: 415-904-8388 WWW.WILKARCH.COM	DRAWN BY: _____ CHK: _____ JVP: _____ CL: _____ MMA: _____ MW: _____ CONSULTANT:
SEAL OF APPROVAL:	SHEET TITLE:
<b>TITLE SHEET</b>	SHEET NUMBER:
<b>T-1</b>	REVISION:

182 2ND ST. SUITE 210  
SAN FRANCISCO, CA 94105

**SOUTH MISSION DISTRICT**  
**CA-SFO0212**  
2801 MISSION STREET  
SAN FRANCISCO, CA 94110  
CITY OF SAN FRANCISCO

PROJECT INFORMATION:  
CURRENT ISSUE DATE: **04/14/10**

ISSUED FOR:  
**100% ZONING DRAWINGS**

REV. DATE DESCRIPTION BY:  
0 04/14/10 100% ZONING DRAWINGS CL

PROJECT ARCHITECT/ENGINEER:  
**MICHAEL WILK ARCHITECTURE**  
833 Market Street, #805  
San Francisco, CA 94103  
T: 415-839-9594  
F: 415-904-8388  
www.wilkarch.com

DRAWN BY: \_\_\_\_\_ CHK. \_\_\_\_\_ APV. \_\_\_\_\_  
CL. \_\_\_\_\_ MWA \_\_\_\_\_ MW \_\_\_\_\_  
CONSULTANT:

SEAL OF APPROVAL

SHEET TITLE:  
**EQUIPMENT SPECIFICATIONS**

SHEET NUMBER: \_\_\_\_\_ REVISION:  
**T-2**

TYPICAL PLAN GROWTH CONFIGURATION FOR DBB RT-SHADOW CABINET

DBB RT-SHADOW CABINET ISOMETRIC

DBB RT-SHADOW DIMENSIONS	
CABINET DEPTH x WIDTH x HEIGHT	33" x 23" x 34"
DBB RT-SHADOW INSIDE CLEARANCE	SEE MACHINE SPEC 43.5" x 9" x 54"
DBB RT-SHADOW BATTERY BACK-UP	6.53" x 10.25" x 30.1"

DBB RT-SHADOW WEIGHT & FLOOR LOADINGS	
CABINET APPROX. MAX. WEIGHT	MAX. FLOOR LOADING
OUTDOOR RT-SHADOW	254 LBS
INDOOR RT-SHADOW	198 LBS/77.2
BATTERY BACK-UP	340 LBS
	128 LBS/77.2

DBB RT-SHADOW MINIMAL CLEARANCES	
DIRECTION	MINIMAL CLEARANCE
CABINET FRONT AND REAR DOOR CLEARANCE	18 - 1/2" x 48 - 1/2" x 18"
CABINET RIGHT/LEFT SIDE AND WALL	0"
ABOVE THE RIS	18" x 6.5" x 7" TOP OF RIS CAB/DABLE THRU
IN FRONT OF THE CABINET	40"
8/7 RIS AND RIS	MIN. SPACING 8" MAX. SPACING 48.2"

**840 10064**  
**65° XX-pol Panel Antenna**  
2496-2690 MHz

Vertical pattern  
Horizontal pattern  
Vertical pattern  
Horizontal pattern

**850 10013 TIR KIT**

Mounting Options:  
Model: 850 10013  
Material: 2 x 738 S48  
Description: 1. 850 10013 TIR Kit  
2. 850 10013 TIR Kit  
3. 850 10013 TIR Kit  
4. 850 10013 TIR Kit  
5. 850 10013 TIR Kit  
6. 850 10013 TIR Kit  
7. 850 10013 TIR Kit  
8. 850 10013 TIR Kit  
9. 850 10013 TIR Kit  
10. 850 10013 TIR Kit

**KATHREIN SCALA DIVISION**

Preliminary

840 10064  
65° XX-pol Panel Antenna  
2496-2690 MHz

Vertical pattern  
Horizontal pattern  
Vertical pattern  
Horizontal pattern

**GPS SPECIFICATION**

Scale: 1:1

1

**ANTENNA SPECIFICATIONS**

Scale: 1:1

2

**CABINET SPECIFICATION**

Scale: 1:1

1

	<b>PROJECT INFORMATION</b> SOUTH MISSION DISTRICT CA-SFO0212 451 MISSION STREET SAN FRANCISCO, CA 94103		<b>ISSUED FOR</b> 100% ZONING DRAWINGS		<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>04/14/10</td> <td>100% ZONING DRAWINGS CL</td> <td></td> </tr> </tbody> </table>		REV.	DATE	DESCRIPTION	BY	0	04/14/10	100% ZONING DRAWINGS CL	
	REV.	DATE	DESCRIPTION	BY										
0	04/14/10	100% ZONING DRAWINGS CL												
182 2ND ST., SUITE 210 SAN FRANCISCO, CA 94105	CURRENT ISSUE DATE: 04/14/10	PROJECT ARCHITECT/ENGINEER: <b>MICHAEL WILK ARCHITECTURE</b> 833 Market Street #605 San Francisco, CA 94103 T: 415-639-9594 F: 415-904-6388 www.wilkarch.com		DRAWN BY: CL CHECKED BY: MWA CONSULTANT: MW	SEAL OF APPROVAL:	SHEET TITLE: <b>OVERALL SITE / ROOF PLAN</b>	SHEET NUMBER: <b>A-1</b>							

