

Planning and Development Department  
Land Use Planning

# U S E P E R M I T

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CITY OF BERKELEY ZONING ORDINANCE  
Berkeley Municipal Code Title 23

## USE PERMIT # 12-10000016

Property Address: **2004 EMERSON STREET**

Permittee Name: **SAM SAVIG, Streamline Engineering  
For Sprint**

**Use and/or Construction Permitted:**

to modify Administrative Use Permit #00-20000042 to remove three existing Sprint antennas and add three new antennas concealed inside a fire rated protection screen enclosure, for a total antenna count of three on the upper roof of a three-story apartment building and to remove three existing equipment cabinets and install one new equipment cabinet for a final equipment count of two inside an existing second floor lease space for Sprint.

- Use Permit to modify an existing wireless telecommunication facility in a residential zoning district, under BMC Section 23C.17.100.A.2

**FINDINGS, CONDITIONS AND APPROVED PLANS ATTACHED**

The Use Permit herein described has been duly granted by the Zoning Adjustments Board and is in effect on February 18, 2013.

# ATTACHMENT 1

## FINDINGS AND CONDITIONS

JANUARY 24, 2013

### 2004 Emerson Street

**Use Permit #12-10000016 to modify Administrative Use Permit #00-20000042 to remove three existing Sprint antennas and add three new antennas concealed inside a fire rated protection screen enclosure, for a total antenna count of three on the upper roof of a three-story apartment building and to remove three existing equipment cabinets and install one new equipment cabinet for a final equipment count of two inside an existing second floor lease space for Sprint.**

#### CEQA FINDINGS

1. The project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA, Public Resources Code §21000, et seq. and California Code of Regulations, §15000, et seq.) pursuant to Section 15301 of the CEQA Guidelines ("Existing Facilities"). Furthermore, none of the exceptions in CEQA Guidelines Section 15300.2 apply, as follows: (a) the site is not located in an environmentally sensitive area, (b) there are no cumulative impacts, (c) there are no significant effects, (d) the project is not located near a scenic highway, (e) the project site is not located on a hazardous waste site pursuant to Government Code Section 65962.5, and (f) the project will not affect any historical resource.

#### GENERAL NON-DETRIMENT FINDING

2. Pursuant to Berkeley Municipal Code Section 23B.32.040, the Zoning Adjustments Board finds that the proposed antenna installation on the rooftop of a three-story apartment building and the installation of related equipment inside an existing second floor lease space, under the circumstances of the particular case existing at the time at which the application is granted, will not be detrimental to the health, safety, peace, morals, comfort, or general welfare of persons residing or working in the area or neighborhood of such proposed use or be detrimental or injurious to property and improvements of the adjacent properties, the surrounding area or neighborhood, or to the general welfare of the City, for the following reasons:
  - A. A report prepared by a registered engineer indicates that the Sprint wireless telecommunications facility ("wireless facility") would comply with the Federal Communications Commission (FCC) standards for limiting human exposure to radio frequency;
  - B. The design of the wireless facility would incorporate a number of features to ensure that the facility would be compatible with the existing building and would not be "readily visible", including the installation of antennas concealed behind a new 8'4" wide, 7'5" tall custom built fire rated protection enclosure designed to match the existing architecture of the building and to resemble a chimney, painted to match

the existing building and will not be discernible as antennas and support equipment cabinets are located within an existing locked second floor enclosed lease space;

- C. A report prepared for the project confirmed that the proposed facility would allow Sprint to remain competitive with other carriers by providing Long Term Evolution or 4G service and will increase the capacity of voice and data transfer for Sprint customers within the subject vicinity;
- D. A noise study prepared for the project and independently reviewed by the City's third party noise consultant, demonstrated that the proposed equipment would not generate noise levels exceeding the limits established by the Berkeley Municipal Code Chapter 13.40 Community Noise; and
- E. The facility is conditioned to meet all standards of the California Building Code and all portions of the facility shall be anchored so that an earthquake does not dislodge them or tip them over.

#### OTHER REQUIRED FINDINGS

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- 3. Pursuant to Berkeley Municipal Code Section 23C.17.100.B.1, the Zoning Adjustments Board finds that the proposed project "*...is consistent with the general requirements of this chapter and any specific requirements applicable to the proposed facility...*" for the following reasons:
  - A. The proposed project is consistent with relevant provisions of the General Plan, particularly Policy LU-7 Neighborhood Quality of Life, Action A, Policy UD-16–Context, and Policy UD-24 Area Character. The proposal is consistent with the relevant Zoning standards which require that the need for the wireless telecommunication facility be demonstrated, that the facility not be readily visible, that the facility be certified to comply with federal standards, and not result in negative effects on public health;
  - B. A report submitted by the applicant and prepared by a registered engineer indicates that the wireless facility will comply with the FCC standards for limiting human exposure to radio frequency energy; and
  - C. There are no discretionary permits affecting the property that are relevant to the project.
- 4. Pursuant to Berkeley Municipal Code Section 23C.17.100.B.2, the Zoning Adjustments Board finds that the proposed project "*will comply with all applicable state and Federal standards and requirements* for the following reasons:

- A. A report submitted by the applicant and prepared by Jos Schorr of EBI Consulting, indicates that the wireless facility will comply with the FCC standards for limiting human exposure to radio frequency energy;
  - B. The EBI report states that based on worst-case predictive modeling, there are no areas at ground level related to the proposed Sprint antennas that exceed the FCC's occupational or general public exposure limits, that at ground level, the maximum power density is 6.6% of the FCC's general public limit. In addition the EBI report states that modeling indicated that the worst-case emitted power density may exceed the FCC's general public limit within approximately 13' of the proposed antennas at the main roof level and may exceed the FCC's occupational limit within approximately 4' of the proposed antennas at the main roof level, therefore EBI recommends that additional signage be installed to make people aware of the antenna locations. Posting of the signage and installation of the recommended barriers will bring the site into compliance with FCC rules and regulations. These requirements are included in the conditions of approval.
  - C. An independent licensed engineer peer reviewed the RF report and concurs with its analysis and conclusion that the proposed antenna installation will comply with the FCC guidelines for radio frequency emissions; and
  - D. The proposed facility will not be readily visible as the antennas are concealed behind a new 8'4" wide, 7'5" tall custom Fire Rated Protection (FRP) enclosure designed to match the existing architecture of the building and to resemble a chimney, painted to match the existing building and will not be discernible as antennas.
5. Pursuant to Berkeley Municipal Code Section 23C.17.100.B.2.a, the Zoning Adjustments Board finds that the proposed project will "*not be readily visible*" because it will not be distinguishable as an antenna or other component from street level, from the main living area of a legal residence in a residential district, or from a public park by a person with normal vision, because it will not stand out as a prominent feature of the landscape or protrude above or out from the building's roof, and is otherwise sufficiently camouflaged and designed to be compatible with the subject property. The basis for this finding is that:
- A. The design ensures that the wireless telecommunications facility would be compatible with the existing building including the installation of antennas behind a concealed custom FRP enclosure constructed to resemble a chimney;
  - B. The support equipment cabinets are located within an existing locked second story enclosed lease space; and
  - C. The existing coax cables will be utilized, painted to match existing cable trays and camouflaged by a trellis to mitigate any potential visual impacts and provide a transition in height between the larger apartment building and the equipment location.

6. Pursuant to Berkeley Municipal Code Section 23C.17.100.B.3, the Zoning Adjustments Board finds that the proposed project “*is necessary to prevent a significant gap in coverage or capacity shortfall in the applicant’s service area, and is the least intrusive means of doing so*” for the following reasons:
  - A. Sprint states that the proposed modification is needed to provide Long Term Evolution (LTE) and Fourth Generation (4G) service and that the proposed cellular equipment will increase the capacity of voice and data transfer for Sprint customers within the subject vicinity;
  - B. Sprint propagation maps indicate that without the site, Sprint will continue to have a coverage gap;
  - C. The City engaged a third party engineering peer review of material provided by Sprint. The consultants, RCC, evaluated the Sprint application, coverage maps, and supplemental materials submitted by Sprint and concluded that Sprint is establishing new LTE service in the subject area where it currently does not exist, Sprint is utilizing and converting their existing 1900 MHz band to provide the LTE service and without the modification to their existing facility Sprint will have a coverage gap in service and customers may have difficulty initiating service until they reach a facility which provides the LTE technology, and the new LTE service will provide more capacity in Sprint’s system as some of the data services will be off-loaded from their existing facility; and
  - D. RCC noted that the design is considered reasonable and consistent with industry best practices to provide LTE 4G service in areas similar to the subject target area and that the proposed installation will meet FCC guidelines pertaining to radio frequency emissions exposure with the implementation of controlled access to the rooftop and appropriate signage as recommended by EBI.
  
7. Pursuant to Berkeley Municipal Code Section 23C.17.10.B.4, the Zoning Adjustments Board finds that Sprint, the wireless carrier, is in compliance with Section 23C.17.090.A.1 and 23C.17.090.A.2 by providing written certification that each Sprint facility in the City of Berkeley is operating in accordance with the approved local and federal permits, by providing contact information for Sprint, and by providing written certification by a licensed professional engineer that new facilities’ radio frequency emissions are in compliance with the approved application and any required conditions.

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**STANDARD CONDITIONS OF APPROVAL FOR ALL PROJECTS**

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**1. Conditions Shall be Printed on Plans**

The conditions of this Permit shall be printed on the first sheet of each plan set submitted for a building permit pursuant to this Use Permit, under the title 'Use Permit Conditions'. The second sheet may also be used if the first sheet is not of sufficient size to list all of the conditions. The sheet(s) containing the conditions shall be of the same size as those sheets containing the construction drawings; 8-1/2" by 11" sheets are not acceptable.

**2. Applicant Responsible for Compliance with Conditions**

The applicant shall ensure compliance with all of the following conditions, including submittal to the project planner of required approval signatures at the times specified. Failure to comply with any condition may result in construction being stopped, issuance of a citation, and/or modification or revocation of the Use Permit.

**3. Uses Approved Deemed to Exclude Other Uses (Section 23B.56.010)**

- A. This Permit authorizes only those uses and activities actually proposed in the application and excludes other uses and activities.
- B. Except as expressly specified herein, this Permit terminates all other uses at the location subject to it.

**4. Modification of Permits (Section 23B.56.020)**

No change in the use or structure for which this Permit is approved is permitted unless the Permit is modified by the Zoning Adjustments Board, in conformance with Section 23B.56.020.A.

Changes in the plans for the construction of a building or structure may be modified prior to the completion of construction, in accordance with Section 23B.56.020.D. The Zoning Officer may approve changes to plans approved by the Board, consistent with the Board's policy adopted on May 24, 1978, which reduce the size of the project. The Zoning Officer may also approve a maximum two-foot variation to Board approved plans, provided that such variation does not increase a structure's height, reduce the minimum distance to any property line, and/or conflict with any special objective sought by the Board.

**5. Plans and Representations Become Conditions (Section 23B.56.030)**

Except as expressly specified herein, the site plan, floor plans, building elevations and any additional information or representations submitted by the applicant during the Staff review and public hearing process leading to the approval of this Permit, whether

oral or written, which indicated the proposed structure or manner of operation are deemed conditions of approval.

**6. Subject to all City and Other Regulations (Section 23B.56.040)**

The approved use and/or construction are subject to, and shall comply with, all applicable City Ordinances and laws and regulations of other governmental agencies.

**7. Exercised Permit for Use Survives Vacancy of Property (Section 23B.56.080)**

Once a Permit for a use is exercised and the use is established, that use is legally recognized, even if the property becomes vacant, except as set forth in Standard Condition #8 below.

**8. Exercise and Lapse of Permits (Section 23B.56.100)**

- A. A permit for the use of a building or a property is exercised when, if required, a valid City business license has been issued, and the permitted use has commenced on the property.
- B. A permit for the construction of a building or structure is deemed exercised when a valid City building permit, if required, is issued, and construction has lawfully commenced.
- C. A permit may be declared lapsed and of no further force and effect if it is not exercised within one year of its issuance, except that permits for construction or alteration of structures or buildings may not be declared lapsed if the permittee has (1) applied for a building permit or (2) made substantial good faith efforts to obtain a building permit and begin construction, even if a building permit has not been issued and/or construction has not begun.

**9. The applicant shall hold the City of Berkeley and its officers harmless in the event of any legal action related to the granting of this Permit, shall cooperate with the City in defense of such action, and shall indemnify the City for any award of damages or attorneys fees that may result.**

**ADDITIONAL CONDITIONS**

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Pursuant to BMC Section 23B.32.040.D, the Zoning Adjustments Board attaches the following conditions to this Permit:

**Prior to Issuance of Any Building Permit**

- 10. Prior to issuance of a building permit, the applicant shall provide the project planner with the name and telephone number of the individual empowered to manage construction noise from the project. The individual's name, telephone number, and**

responsibility for noise management shall be posted at the project site for the duration of construction in a location easily visible to the public. The individual shall record all noise complaints received and actions taken in response, and submit this record to the project planner upon request.

□ Noise Management Individual \_\_\_\_\_  
Name Phone #

11. The applicant and all persons associated with the project are hereby notified that a Transportation Management Permit (TMP) would be required under any of the following circumstances:

- Alterations, closures, or blockages to sidewalks or pedestrian paths
- Alterations, closures, or blockages to vehicle travel lanes (including bicycle lanes)
- Storage of building materials, dumpsters, debris anywhere in the public ROW
- Provision of exclusive contractor parking on-street
- Significant truck activity.

Contact the Permit Service Center (PSC) at 2120 Milvia Street or 981-7500 for details on obtaining Construction/No Parking Permits (and associated signs and accompanying dashboard permits). Public Works Traffic Engineering (981-6400) reviews all submitted TMP requests.

The TMP may include designation of a specific truck haul route. Meter heads (if in the construction area) shall be removed only by City staff. Contact the site inspector 72 hours in advance of required removal so arrangements can be made.

12. The applicant shall provide signage identifying the name and phone number of a party to contact in event of an emergency. The plans submitted for a building permit shall include a sample of the proposed emergency sign(s) as well as the warning signs as required in COA #24 below, as well as the location for posting such signs.

13. The applicant shall either secure a bond or provide financial assurances in a form acceptable to the City Manager for the removal of the facility in the event that its use is abandoned or the approval is otherwise terminated.

**During Construction:**

14. Construction activity shall be limited to between the hours of 8:00 a.m. and 6:00 p.m. on Monday through Friday, and between 9:00 a.m. and noon on Saturday. No construction-related activity shall occur on Sunday or on any Federal Holiday.

15. If underground utilities leading to adjacent properties are uncovered and/or broken, the contractor involved shall immediately notify the Public Works Department and the

Building & Safety Division, and carry out any necessary corrective action to their satisfaction.

16. Subject to approval of the Public Works Department, the applicant shall repair any damage to public streets and/or sidewalks by construction vehicles traveling to or from the project site.
17. All piles of debris, soil, sand, or other loose materials shall be covered at night and during rainy weather with plastic at least one-eighth millimeter thick and secured to the ground.
18. All active construction areas shall be watered at least twice daily, and all piles of debris, soil, sand or other loose materials shall be watered or covered.
19. Trucks hauling debris, soil, sand, or other loose materials shall be covered or required to maintain at least two feet of board.
20. Public streets shall be swept (preferably with water sweepers) of all visible soil material carried from the site.

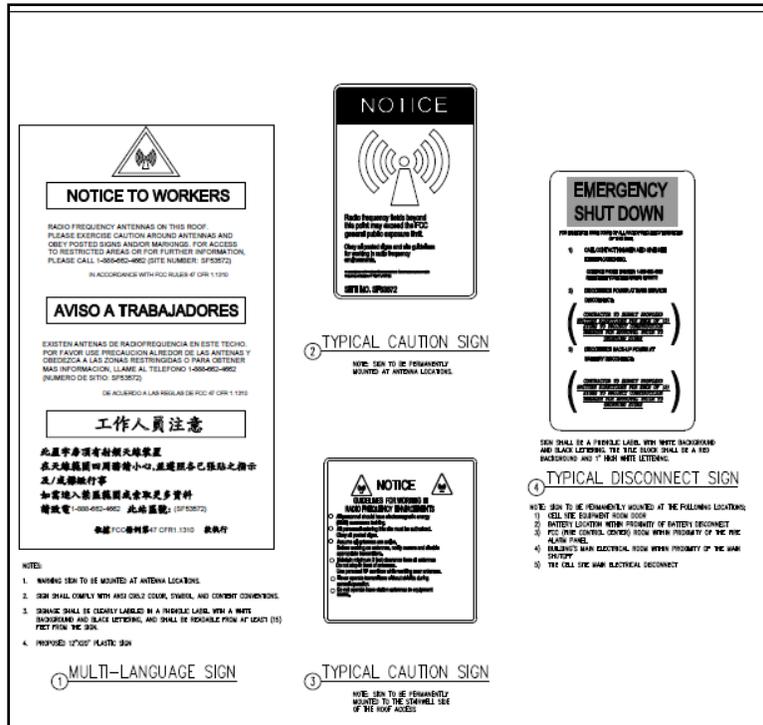
**Prior to Issuance of Occupancy Permit or Final Inspection:**

21. The project shall conform to the plans and statements in the Use Permit.
22. All landscape, site and architectural improvements shall be completed per the attached approved drawings dated July 30, 2012.

**At All Times:**

23. The conditions recommended by Jos Schorr of EBI Consulting in the July 6, 2012 report to the City and the conditions recommended by Dieter J. Preiser, PMP of RCC Consultants in the October 2, 2012 3<sup>rd</sup> party engineering review report prepared for the City in the evaluation of the facility for radio frequency fields, and any subsequent engineering recommendations, shall be implemented including:
  - A. There shall be no access within thirteen (13) feet directly in front of the antennas while the site is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met;
  - B. Rooftop access should be controlled to restrict public access and signage shall be installed at all access points near the antennas. Accessible areas within 13 feet in front of the antennas should be clearly marked with warning tape or markings pointed on the rooftop surface; and
  - C. Warning signs shall be posted on the screen enclosures, such that the signs are readily visible from any angle of approach to persons who might need to work within that distance. The signs shall comply with OET-65 color, symbol, and content recommendations. Contact information should be provided on the signs

(e.g. a telephone number) to arrange access to restricted areas. See sample signage below:



24. Signage identifying the name and phone number of the individual to contact in the event of an emergency shall be installed at the project site (see Condition #12 above).
25. Subject to review and approval by the Zoning Officer, future changes to or replacement of the wireless equipment shall be permitted through issuance of a Zoning Certificate, rather than a Modification of the Use Permit, so long as the proposed changes are not detrimental, comply with performance standards within this Use Permit (e.g. noise levels, visual appearance, and RF standards), do not increase the size or visibility of any legally established wireless telecommunication facility, and complies with the FCC's MPE limits for electric and magnetic field strength and power density for transmitters within the designated equipment area.
26. The wireless telecommunications facility and related equipment, including lighting, fences, shields, cabinets, and poles, shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism, and any damage from any cause shall be repaired as soon as reasonably possible so as to minimize occurrences of dangerous conditions or visual blight. Graffiti shall be removed from any facility or equipment as soon as practicable, and in no instance more than forty-eight (48) hours from the time of notification by the city.

27. The wireless telecommunications facility shall be operated in a manner that will minimize noise impacts to surrounding residents and persons using nearby parks, trails, and similar recreation areas. Except for emergency repairs, testing and maintenance activities that will be audible beyond the property line shall only occur between the hours of 8:00 am and 7:00 pm on Monday through Friday, excluding holidays. All air conditioning units and any other equipment that may emit noise that would be audible from beyond the property line shall be enclosed or equipped with noise attenuation devices. Backup generators shall only be operated during periods of power outages or for testing. At no time shall equipment noise from any source exceed the standards specified in the Berkeley Community Noise Ordinance (BMC Chapter 13.40).
28. The exterior walls and roof covering of all aboveground equipment shelters and cabinets shall be constructed of materials rated as nonflammable in the Uniform Building Code.
29. Openings in all aboveground equipment shelters and cabinets shall be protected against penetration by fire and windblown embers to the extent feasible.
30. Material used as supports for antennas shall be fire resistant, termite proof, and subject to all applicable requirements of the California Building Code.
31. Telecommunications antenna towers shall be designed to withstand forces expected during earthquakes to the extent feasible. Building-mounted facilities shall be anchored so that an earthquake does not dislodge them or tip them over. All equipment mounting racks and attached equipment shall be anchored so that a quake would not tip them over, throw equipment off its shelves, or otherwise damage equipment.
32. All connections between various components of the wireless telecommunications facility and necessary power and telephone lines shall, to the extent feasible, be protected against damage by fire, flooding, and earthquake. Reasonable measures shall be taken to keep wireless telecommunication facilities in operation in the event of a natural disaster.
33. No wireless telecommunications facility or combination of facilities shall at any time produce power densities that exceed the FCC's limits for electric and magnetic field strength and power density for transmitters. In order to ensure continuing compliance with all applicable emission standards, all wireless telecommunications facilities shall be reviewed by an approved engineer-in accord with the schedule and procedures set forth in Section 23C.17.090. All reasonable costs of such inspections shall be borne by the owner or operator of the facility. The City may require, at the operator's expense, independent verification of the results of any analysis. If an operator of a telecommunications facility fails to supply the required reports or fails to correct a violation of the Federal Communications Commission standard following notification, the Use Permit is subject to modification or revocation by the Zoning Adjustments Board following a public hearing.

- 34.** Within forty five (45) days of initial operation or modification of a telecommunications facility, the operator of each telecommunications antenna shall submit to the Zoning Officer written certification by an approved engineer that the facility's radio frequency emissions are in compliance with the approved application and any required conditions. The engineer shall measure the radio frequency radiation of the approved facility and determine if it meets the FCC requirements. A report of these measurements and the engineer's findings with respect to compliance with the FCC's MPE limits shall be submitted to the Zoning Officer. If the report shows that the facility does not comply with applicable FCC requirements, the owner or operator shall cease operation of the facility until the facility complies with, or has been modified to comply with, this standard. Proof of compliance shall be a certification provided by the engineer who prepared the original report. In order to assure the objectivity of the analysis, the City may require, at the applicant's expense, independent verification of the results of the analysis.
- 35.** Within forty five (45) days of initial operation of the modified equipment, submit to the Zoning Officer for review a noise analysis of the actual noise levels inside the residence located closest to the equipment lease area. The noise study shall be performed by an acoustical, mechanical, or electrical engineer and shall quantify the noise environment inside the apartment to adequately describe noise levels generated by the environmental noise sources and the equipment at the site. The noise generated by the equipment shall be factored into the overall noise at the site which would include ambient noise, including the equipment. The submitted noise report shall assess noise impacts against the applicable noise ordinance standards set forth by the City of Berkeley.
- 36.** Hereafter, prior to January 31 of every year, an authorized representative for each wireless carrier providing service in the City of Berkeley shall provide written certification to the City that each facility is being operated in accordance with the approved local and federal permits and shall provide the current contact information.
- 37.** Once every two years, the City may retain, at the operator's expense, an approved engineer to conduct an unannounced spot check of the facility's compliance with applicable FCC radio frequency standards.
- 38.** In the event of a change in the FCC's Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters, the operator of the facility shall be required to submit to the Zoning Officer written certification by an approved engineer of compliance with applicable FCC radio frequency standards within 90 days of any change in applicable FCC radio frequency standards or of any modification of the facility requiring a new submission to the FCC to determine compliance with emission standards. If calculated levels exceed 50% of the FCC's MPE limits, the operator of the facility shall hire an approved engineer to measure the actual exposure levels. If calculated levels are not in compliance with the FCC's MPE limit, the operator shall cease operation of the facility until the facility is brought into compliance with the FCC's standards and all other applicable requirements. A report

of these calculations, required measurements, if any, and the engineer's findings with respect to compliance with current MPE limits shall be submitted to the Zoning Officer.

39. If the Zoning Officer at any time finds that there is good cause to believe that a telecommunications antenna is not in compliance with applicable FCC radio frequency standards, he/she may require the operator to submit written certification that the facility is in compliance with such FCC standards.
  
40. Within thirty (30) days of cessation of operations of any wireless telecommunications facility approved pursuant to this chapter, the operator shall notify the Zoning Officer in writing. The permit for said wireless telecommunications facility shall be deemed lapsed and of no further effect six (6) months thereafter unless:
  - A. The Zoning Officer has determined that the same operator resumed operation within six (6) months of the notice; or
  - B. The City has received an application to transfer the permit to another operator.
  
41. No later than thirty (30) days after a permit has lapsed under the preceding condition of approval, the operator shall remove all wireless telecommunication facilities from the site. If the operator fails to do, the property owner shall be responsible for removal, and may use any bond or other assurances provided by the operator pursuant to the requirements of Section 23C.17.050 to do so. If such facilities are not removed, the site shall be deemed to be a nuisance pursuant to Section 23B.64 and the City may call the bond to pay for removal.
  
42. Failure to inform the Zoning Officer of cessation of operations of any existing facility shall constitute a violation of the Zoning Ordinance and be grounds for:
  - A. Prosecution;
  - B. Revocation or modification of the permit;
  - C. Calling of any bond or assurance secured by the operator pursuant to the requirements of Section 23C.17.050; and/or
  - D. Removal of the facilities.
  
43. Any FCC-licensed telecommunications carrier that is buying, leasing, or considering a transfer of ownership of an already approved facility, shall provide written notification to the Zoning Officer and request transfer of the existing Use Permit. The Zoning Officer may require submission of any supporting materials or documentation necessary to determine that the proposed use is in compliance with the existing Use Permit and all of its conditions including, but not limited to, statements, photographs, plans, drawings, models, and analysis by a State-licensed radio frequency engineer demonstrating compliance with all applicable regulations and standards of the Federal Communications Commission and the California Public Utilities Commission. If the Zoning Officer determines that the proposed operation is not consistent with the existing Use Permit, he/she shall notify the applicant who may revise the application or

apply for modification to the Use Permit pursuant to the requirements of Section 23B.56.

44. The applicant shall be responsible for paying all costs (including City staff time) associated with monitoring and/or enforcement of the above conditions. Fees shall be based on the adopted City fee schedule in place at the time the work is performed or action is taken.
45. All exterior lighting shall be shielded and directed downward and away from property lines to prevent excessive glare beyond the subject property.
46. The applicant shall hold the City of Berkeley and its officers harmless in the event of any legal action related to the granting of this Permit, shall cooperate with the City in defense of such action, and shall indemnify the City for any award of damages or attorneys fees that may result.

LAND USE PLANNING



**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

January 24, 2013

JUL 8 2012

PROJECT: NETWORK VISION MM  
 MARKET: SAN FRANCISCO BAY

RECEIVED

**SF36XC013-A-ASHBY & ADELINE**

2004 EMERSON ST  
 BERKELEY, CA 94704

**ASHBY & ADELINE**

SF36XC013-A  
 2004 EMERSON ST  
 BERKELEY, CA 94704

ISSUE STATUS

DATE	DESCRIPTION	BY
03/19/12	2D 80% L&C	J.K.
03/21/12	CLIENT REV	J.K.
04/16/12	3D 100% L&C	J.K.
05/20/12	PLAN CHECK	M.S.

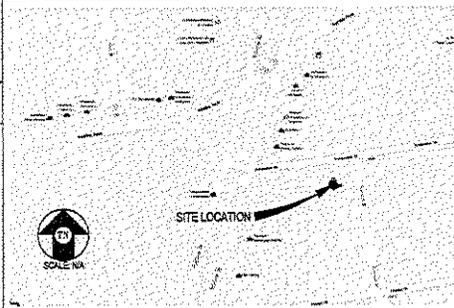
DRAWN BY: J. KISLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 06/01/12

**Streamline Engineering**  
 CONSULTING INC.  
 4025 Parkway Rd, Suite 200, Loomis, CA 95669  
 E-Mail: info@streamlineeng.com Fax: 916 653-1841  
 www.streamlineeng.com

PROJECT DESCRIPTION

A MODIFICATION TO AN (E) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF ADDING A (P) SPRINT MWES CABINET, A (P) SPRINT BATTERY CABINET, A (P) OSNA CABINET, A (P) UAM CABINET, (3) (P) ANTENNAS, (6) (P) RRUS, A (P) FAUX CHIMNEY & A (P) GPS ANTENNA, ALSO RELOCATING (3) (E) SPRINT ANTENNAS TO (P) LOCATION & REMOVING (3) (E) SPRINT CABINETS & AN (E) FAUX CHIMNEY.

VICINITY MAP



CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2010 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
  - 2010 CALIFORNIA BUILDING CODE
  - 2010 CALIFORNIA ELECTRICAL CODE
  - 2010 CALIFORNIA MECHANICAL CODE
  - 2010 CALIFORNIA PLUMBING CODE
  - 2010 CALIFORNIA FIRE CODE
  - LOCAL BUILDING CODES
  - CITY/COUNTY ORDINANCES
  - ANSI/ISA-7A-222-G
- ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

PROJECT INFORMATION

SITE NAME:	ASHBY & ADELINE	SITE #:	SF36XC013-A
COUNTY:	ALAMEDA	JURISDICTION:	CITY OF BERKELEY
APR:	053-1585-002-00	POWER:	PG&E
SITE ADDRESS:	2004 EMERSON ST BERKELEY, CA 94704	TELEPHONE:	AT&T
CURRENT ZONING:	R-3		
CONSTRUCTION TYPE:	V		
OCCUPANCY TYPE:	U, (UNMANNED COMMUNICATIONS FACILITY)		
PROPERTY OWNER:	DAVID ARNOLD TRUSTEE OF THE DAVID ARNOLD FAMILY 2004 EMERSON ST BERKELEY, CA 94704 (510) 846-2773		
APPLICANT:	BLACK & VEATCH 2269 OAK RD SUITE 450 WALNUT CREEK, CA 94597		
LEASING CONTACT:	ATTN: LAURA SONATY (925) 949-5975		
ZONING CONTACT:	ATTN: LARRY HOUGHTSBY (916) 275-4163		
CONSTRUCTION CONTACT:	ATTN: KEVIN FOSTER (850) 291-4675		
LATITUDE:	N 37° 58' 46.6" NAD 83 N 37.954095° NAD 83		
LONGITUDE:	W 122° 03' 57.4" NAD 83 W -122.068552° NAD 83		
ANGL:	4.39°		

DRIVING DIRECTIONS

FROM: 2269 OAK RD SUITE 450, WALNUT CREEK, CA 94597  
 TO: 2004 EMERSON ST, BERKELEY, CA 94704

1. HEAD SOUTHEAST ON OAK RD TOWARD COGGINS DR 0.1 MI
  2. TURN RIGHT ONTO TREAT BLVD 0.1 MI
  3. CONTINUE STRAIGHT TO STAY ON TREAT BLVD 0.1 MI
  4. TURN RIGHT ONTO N MAIN ST 0.2 MI
  5. TURN RIGHT ONTO THE INTERSTATE 680 S RAMP TO OAKLAND 0.1 MI
  6. MERGE ONTO I-680 S 1.4 MI
  7. TAKE EXIT 46 FOR CALIFORNIA 24 TOWARD LAFAYETTE 1.5 MI
  8. MERGE ONTO CA-24 W 9.2 MI
  9. TAKE EXIT 56 TO MERGE ONTO CA-13 N TOWARD BERKELEY 2.7 MI
  10. TURN LEFT ONTO SHATTUCK AVE 276 FT
  11. TAKE THE 1ST RIGHT ONTO EMERSON ST
- DESTINATION WILL BE ON THE LEFT

END AT: 2004 EMERSON ST, BERKELEY, CA 94704  
 ESTIMATED TIME: 21 MINUTES ESTIMATED DISTANCE: 15.4 MILES

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11346.2.1, EXCEPTION 4

SHEET INDEX

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	-
A-1	SITE PLAN	-
A-2	EXISTING/INTERIM EQUIPMENT PLAN & DETAIL	-
A-3	FINAL CONFIGURATION EQUIPMENT PLAN & DETAIL	-
A-4	ANTENNA PLANS & DETAILS	A
A-5	ELEVATION	A
A-6	ELEVATION	A

APPROVAL

RF
LEASING
ZONING
CONSTRUCTION

**Sprint**  
 1852 ALCOSTA BLVD, SUITE 200  
 SAN RAMON, CA 94583

SHEET TITLE:

TITLE

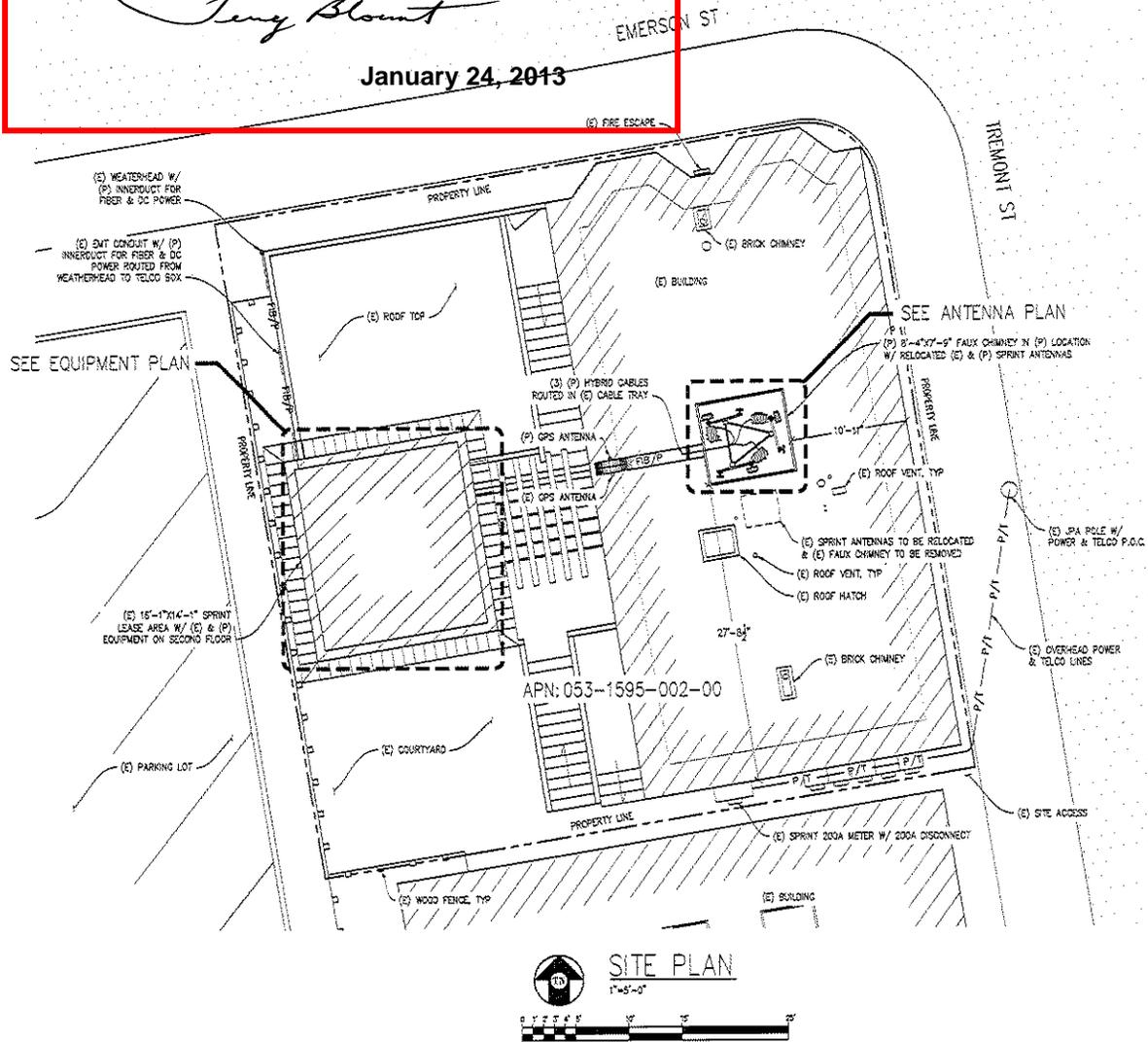
SHEET NUMBER:

T-1

**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

January 24, 2013



**SITE PLAN**  
 1"=45'-0"

**ASHBY & ADELINE**  
 SF36XC013-A  
 2004 EMERSON ST  
 BERKELEY, CA 94704

**ISSUE STATUS**

Δ	DATE	DESCRIPTION	BY	CHK.
	03/19/12	ISSUE	J.K.	
	05/22/12	CLIENT REV	J.E.	
	06/18/12	2D TOOL	A.W.	
	11/06/12	PLAN CHECK	T.M.S.	

DRAWN BY: J. KIBLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 06/01/12

**Streamline Engineering**  
 CONSULTING INC.  
 2008 BLISS RD. SUITE 200, SAN RAFAEL, CA 94903  
 CRISTINA KIMURA, PROJECT MANAGER, PH: 916.990.1800  
 E: CKIM@streamlineeng.com Fax: 916.990.1841

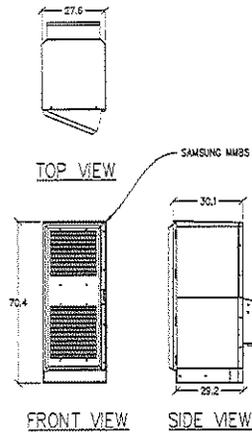
**Sprint**  
 12657 ALCOSTA BLVD SUITE 300  
 SAN RAFAEL, CA 94903

SHEET TITLE:  
 SITE PLAN  
 SHEET NUMBER:  
**A-1**

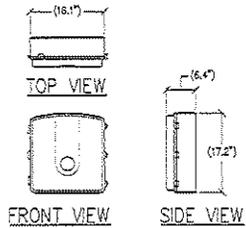
**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

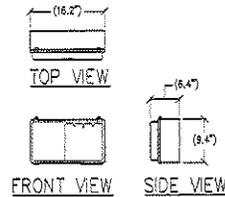
**January 24, 2013**



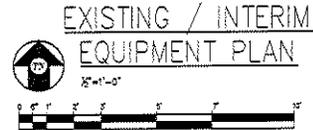
① **MMBS CABINET**  
 $\frac{1}{2}'' = 1'-0''$



② **CN 3911 DETAIL**  
 $\frac{1}{2}'' = 1'-0''$



③ **UAM DETAIL**  
 $\frac{1}{2}'' = 1'-0''$



**ASHBY & ADELINE**  
 SF36XC013-A  
 2004 EVANS AVENUE  
 BERKELEY, CA 94704

**ISSUE STATUS**

A	DATE	DESCRIPTION	J.K.
05/29/12	ZD	90%	J.K.
05/29/12	CLIENT REV		J.S.
04/12/12	ZD	100%	J.S.
06/07/12	PLAN CHECK		J.M.E.
-	-	-	-
-	-	-	-

DRAWN BY: J. KIBLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 06/07/12

**Streamline Engineering**  
 CONSULTING INC.

2004 Evans Avenue  
 Berkeley, CA 94704  
 P: 916-860-1941  
 E: Ashby@streamlineeng.com

**Sprint**

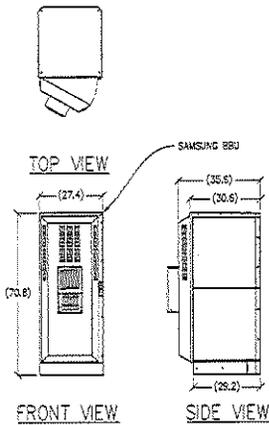
1257 ALCANTARA BLVD SUITE 300  
 SAN RAMON, CA 94583

<b>SHEET TITLE</b>
EXISTING/INTERIM EQUIPMENT PLAN & DETAILS
<b>SHEET NUMBER</b>
<b>A-2</b>

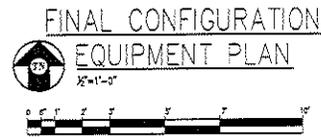
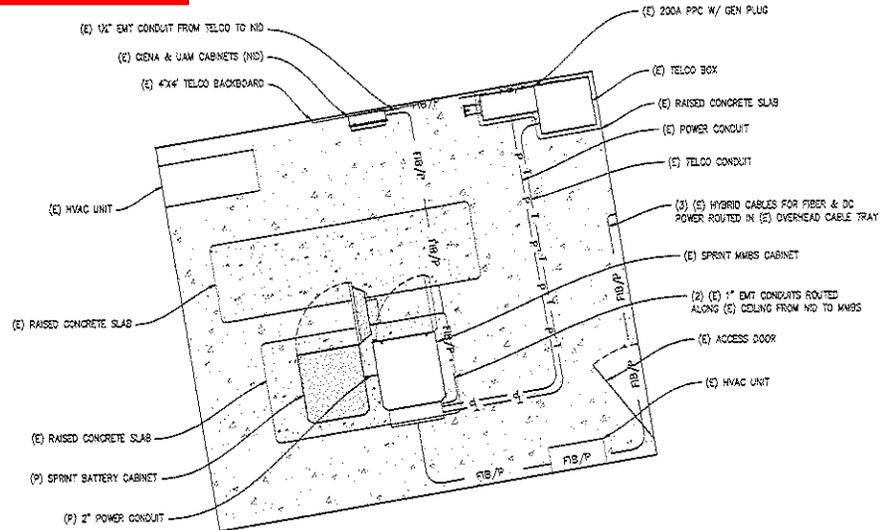
**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

January 24, 2013



① BATTERY CABINET  
 $\frac{1}{8}'' = 1'-0''$



**ASHBY & ADELINE**  
 SF36XC013-A  
 2004 EMBERTON ST  
 BERKELEY, CA 94704

**ISSUE STATUS**

DATE	DESCRIPTION	BY
03/19/12	ISSUE	J.K.
03/27/12	CLIENT REV	J.S.
04/16/12	JOB TAKE OFF	A.W.
05/01/12	PLAN CHECK	M.S.

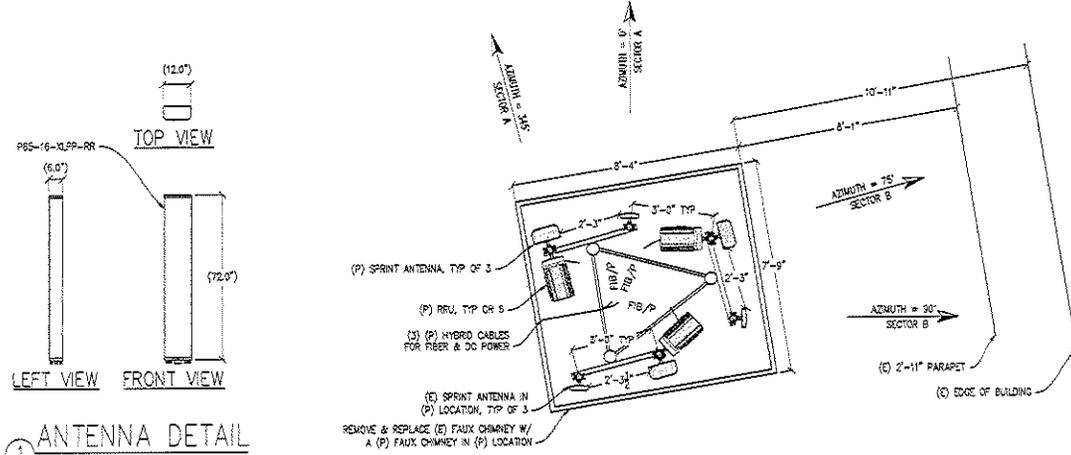
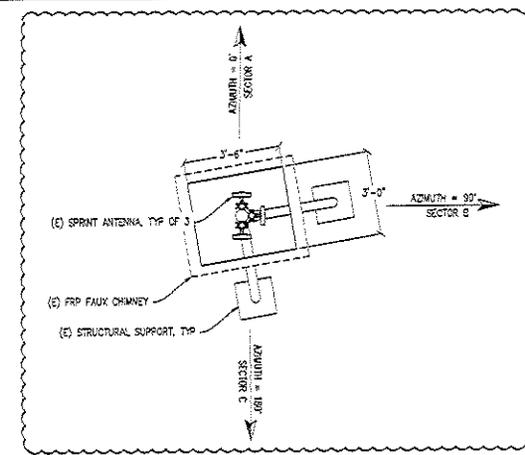
DRAWN BY: J. KIBLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 05/01/12

**Streamline Engineering**  
 CONSULTING INC.  
 2028 Sherman Rd., Suite 200, Berkeley, CA 94704  
 Contact: Joe Sorenson Phone: 916-660-1830  
 E: jls@streamlineengineering.com Fax: 916-660-1841

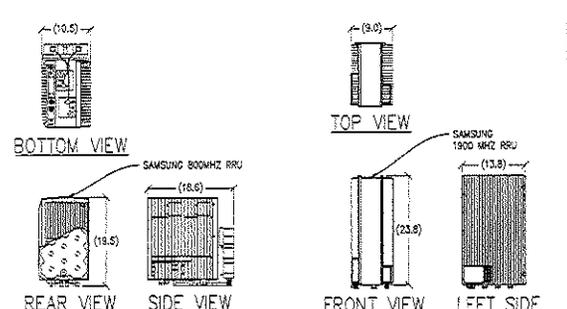
**sprint**  
 12857 ALGOSTA BLVD SUITE 300  
 SAN RAFAEL, CA 94983

SHEET TITLE:  
 FINAL CONFIGURATION  
 EQUIPMENT PLAN & DETAIL  
 SHEET NUMBER:  
**A-3**

ANTENNA SCHEDULE SF36XC013																
SECTOR	TECHNOLOGY	ANTENNA MODEL	RAD CENTER	AZIMUTH	RRU'S						CABLES					
					RRU MODEL	NO. OF RRU/S	NO. OF FILTERS	NO. OF AMPS/OS	NUMBER LENGTH (MFT)	NO. OF RET CABLES	NO. OF HYBRID CABLES	HYBRID CABLE LENGTH (LINEAR FEET)	NO. OF COAX CABLES	COAX DIA.	MAX LENGTH	
ALPHA SECTOR	A1	CDMA	RR-65-15-06-0P	45-0°	0°	N/A	N/A	N/A	N/A	N/A	N/A	1	84'	2	7/8"	70'
	A2	800/1900 MHz	PRS-15-XLPP-RR	67-0°	240°	1900 MHz	RRH-P4	1	0	1 (SHARED)	5'	1		N/A	N/A	N/A
	A3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A
BETA SECTOR	B1	CDMA	RR-65-15-06-0P	45-0°	90°	N/A	N/A	N/A	N/A	N/A	N/A	1	84'	2	7/8"	70'
	B2	800/1900 MHz	PRS-15-XLPP-RR	45-0°	75°	1900 MHz	RRH-P4	1	0	1 (SHARED)	5'	1		N/A	N/A	N/A
	B3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A
GAMMA SECTOR	G1	CDMA	RR-65-15-06-0P	45-0°	180°	N/A	N/A	N/A	N/A	N/A	N/A	1	84'	2	7/8"	70'
	G2	800/1900 MHz	PRS-15-XLPP-RR	45-0°	165°	1900 MHz	RRH-P4	1	0	1 (SHARED)	5'	1		N/A	N/A	N/A
	G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A
N/A	GPS	GPS-TWC-RR-SWCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	1/2"	10'

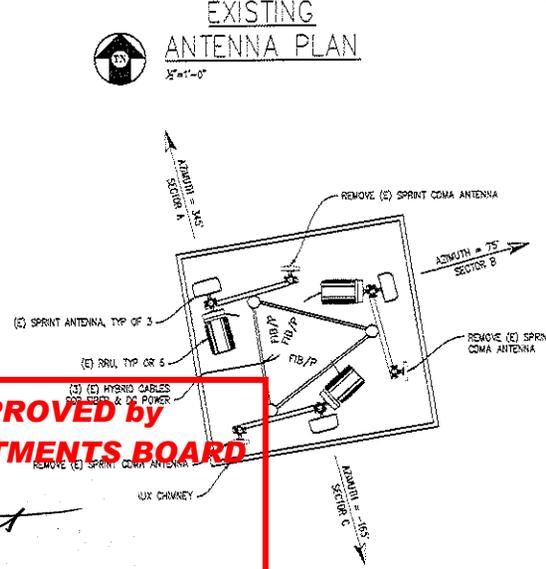


1 ANTENNA DETAIL  
 1/4" = 1'-0"



2 800MHZ RRU UNIT  
 1/4" = 1'-0"

3 1900MHZ RRU UNIT  
 1/4" = 1'-0"



**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

**January 24, 2013**

FINAL CONFIGURATION  
 ANTENNA PLAN  
 1/4" = 1'-0"

**ASHBY & ADELINE**  
 SF36XC013-A  
 2004 FARMERSON ST  
 BERKELEY, CA 94704

**ISSUE STATUS**

Δ	DATE	DESCRIPTION	BY
	10/19/12	2D SET	J.S.
	10/21/12	CLIENT REV	J.S.
	04/16/12	2D 100% A.W.	
	11/09/12	PLAN CHECK	M.S.

DRAWN BY: J. KIBLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 05/01/12

**Streamline Engineering**  
 CONSULTANTS INC.

2000 North Alameda Street, Suite 200  
 Oakland, CA 94612  
 Phone: 916.880.8800  
 Fax: 916.880.8811  
 Email: info@streamlineeng.com

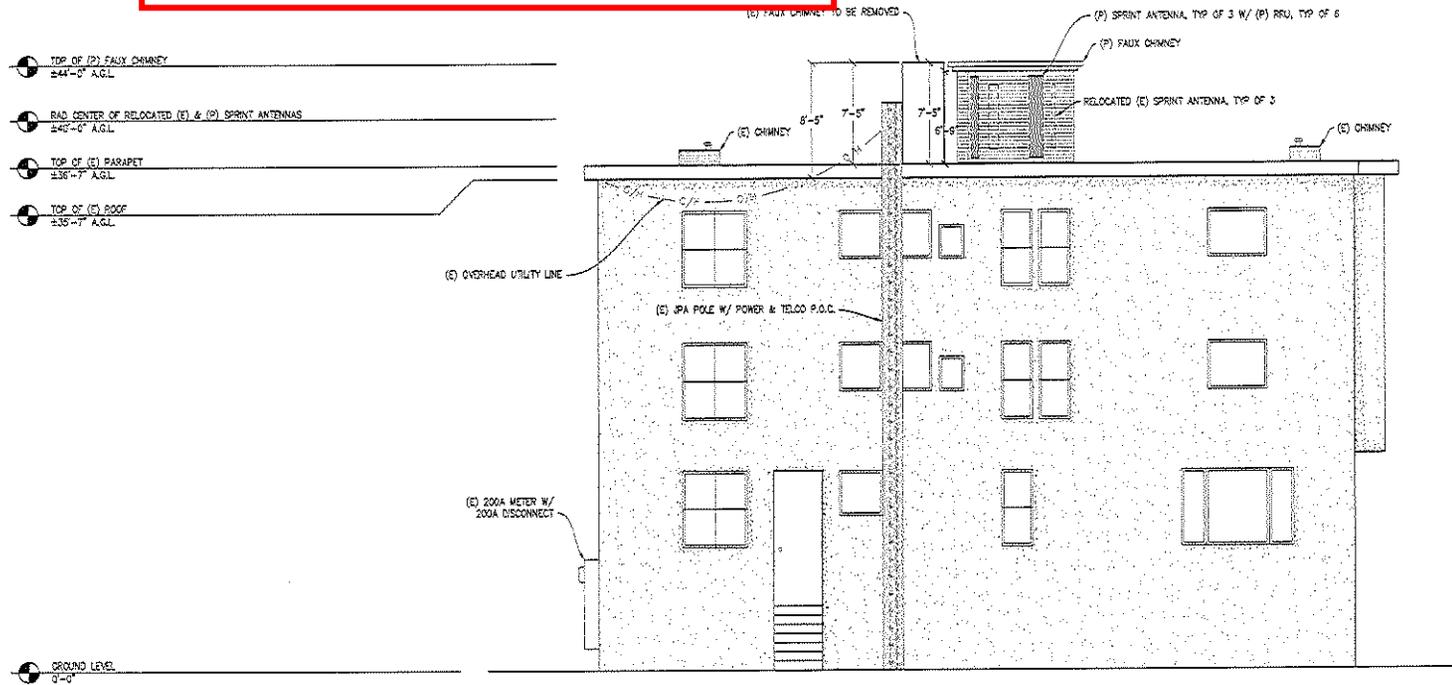
**Sprint**  
 12657 ALGOSTA BLVD SUITE 300  
 SAN RAMON, CA 94583

SHEET TITLE:  
 ANTENNA  
 PLANS & DETAILS  
 SHEET NUMBER:  
**A-4**

**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

January 24, 2013



**EAST ELEVATION**  
 1/2"=1'-0"

**ASHBY & ADELINE**

SF36XC013-A  
 2004 EMERSON ST  
 BERKELEY, CA 94704

**ISSUE STATUS**

Δ	DATE	DESCRIPTION	BY
	03/19/12	2D SOV	J.K.
	03/27/12	CLIENT REV	J.K.
	04/18/12	2D TOOL	J.K.
	06/03/12	PLAN CHECK	M.S.
DRAWN BY:		J. KIELER	
CHECKED BY:		J. GREY	
APPROVED BY:			
DATE:		06/07/12	

**Streamline Engineering**  
 CONSULTANTS

3000 Market St., Suite 200, Berkeley, CA 94702  
 Contact: Rich Sorenson Phone: 916-828-1500  
 E-Mail: rich@streamlineeng.com Fax: 916-828-1641

**Sprint**

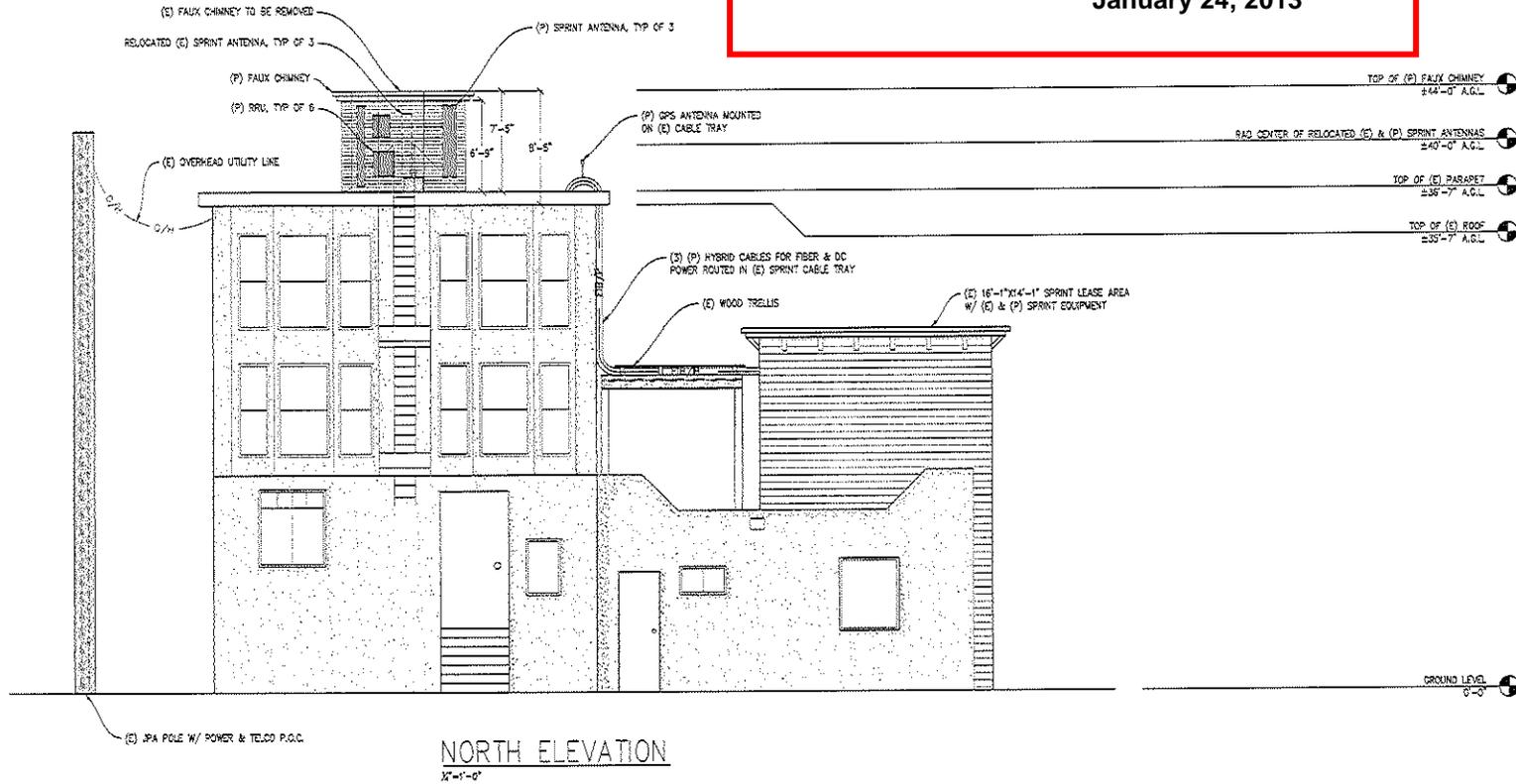
1287 ALCOSTA BLVD SUITE 300  
 SAN RAMON, CA 94583

SHEET TITLE:
ELEVATION
SHEET NUMBER:
<b>A-5</b>

**PLANS APPROVED by**  
**ZONING ADJUSTMENTS BOARD**

*Jerry Blount*

January 24, 2013



**ASHBY & ADELINE**

SF36XC013-A  
 2014 EMERSON ST  
 BERKELEY, CA 94704

**ISSUE STATUS**

DATE	DESCRIPTION
03/13/12	2D 30% T.I.C.
05/22/12	CLIENT 2D T.I.C.
07/16/12	2D 100% T.I.C.
06/21/12	PLAN CHECK T.I.C.
-	-
-	-

DRAWN BY: J. KIBLER  
 CHECKED BY: J. GREY  
 APPROVED BY:  
 DATE: 06/01/12

**Streamline Engineering**  
 CONSULTING ENGINEERS

2045 PIERCE BLVD. SUITE 200  
 SAN FRANCISCO, CA 94109  
 E: Ashby\_Adeline@streamlineeng.com F: 415-600-1941

**sprint**

1267 ALICOSTA BLVD SUITE 300  
 SAN FRANCISCO, CA 94133

SHEET TITLE:  
 ELEVATION  
 SHEET NUMBER:  
**A-6**