

Case File Number: REV12-0011 (Revision of case file CD08-018)

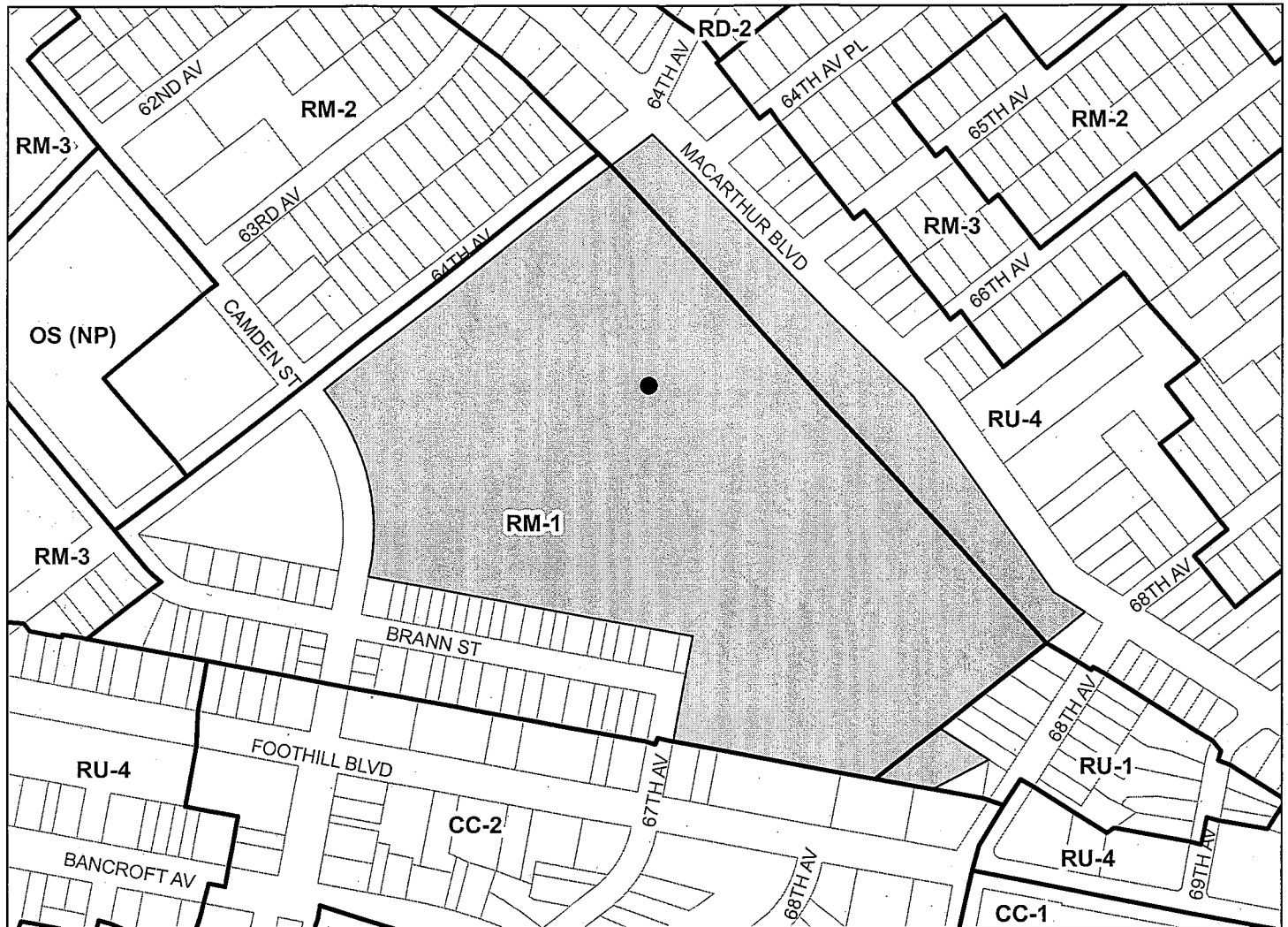
November 14, 2012

Location:	6450 Camden Street (See map on reverse)
Assessors Parcel Numbers:	(APN: 039-3282-001-08)
Proposal:	A revision of a previously granted Conditional Use Permit and Design Review that would replace three (3) panel antennas, replace two (2) cabinets, remove one cabinet, replace a GPS antenna, and install six (6) new Remote Radio Units (RRU's).
Applicant:	Sprint, Michelle Weller for Cortel, LLC
Contact Person/	Michelle Weller/
Phone Number:	(925)997-1312
Owner:	Evergreen Cemetery Association
Case File Number:	REV12-0011 (Revision of case file CD08-018)
Planning Permits Required:	Revision of a Conditional Use Permit and Design Review to allow a Macro Telecommunication facility in the RM-1 zone. (Major Conditional Use Permit for the installation of a Macro telecommunication facility within 100 feet of a residential zone).
General Plan:	Urban Open Space
Zoning:	RM-1 Mixed Housing Type Residential
Environmental	Exempt, Section 15301 of the State CEQA Guidelines; minor
Determination:	additions and alterations to an existing facility Section 15183 of the State CEQA Guidelines; projects consistent with a community plan, General Plan or zoning.
Historic Status:	No Historic Record
Service Delivery District:	5
City Council District:	6
Date Filed:	8/15/12
Finality of Decision:	<i>Appealable to City Council within 10 days</i>
For Further Information:	Contact case planner Michael Bradley at (510) 238-6935 or mbradley@oaklandnet.com

SUMMARY

The following staff report addresses the proposal for a new unmanned wireless telecommunication facility located on the rooftop of an existing cemetery building, with the associated equipment cabinets located in a gated area on the ground next to the building. The project is to replace three (3) panel antennas, replace two (2) cabinets, remove one cabinet, replace a GPS antenna, and install six (6) new Remote Radio Units (RRU's). Given the number of antennas and the type of installation, this would be considered a "Macro" Telecommunications Facility. The facility is located within the center of a cemetery, on the roof of an existing cemetery building. The site is located in the RM-1 Mixed Housing Type Residential Zone. The General Plan designation for the site is Urban Open Space.

CITY OF OAKLAND PLANNING COMMISSION



0 125 250 500 750 1,000 Feet



Case File: REV12-0011 (revision of case file CD08-018)
Applicant: Sprint, Michelle Weller for Cortel, LLC
Address: 6450 Camden Street
Zone: RM-1

PROJECT DESCRIPTION

The applicant (Sprint) is proposing to replace three (3) panel antennas, replace two (2) cabinets, remove one cabinet, replace a GPS antenna, and install six (6) new RRU's. The proposal for the equipment shelters to be located in a gated area on the ground next to the building. All proposed antennas and associated equipment will not be accessible to the public.

(See Attachment A)

PROPERTY DESCRIPTION

The subject property is a lot of approximately 25.02 Acres with a large cemetery building. The lot has frontage on Camden Street, 64th Avenue, MacArthur Boulevard. The subject property has a fully functioning cemetery on the site. Currently there are other telecommunication providers at the site.

BACKGROUND

Limitations on Local Government Zoning Authority under the Telecommunications Act of 1996

Section 704 of the Telecommunications Act of 1996 (TCA) provides federal standards for the siting of "Personal Wireless Services Facilities." "Personal Wireless Services" include all commercial mobile services (including personal communications services (PCS), cellular radio mobile services, and paging); unlicensed wireless services; and common carrier wireless exchange access services. Under Section 704, local zoning authority over personal wireless services is preserved such that the FCC is prevented from preempting local land use decisions; however, local government zoning decisions are still restricted by several provisions of federal law.

Under Section 253 of the TCA, no state or local regulation or other legal requirement can prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service.

Further, Section 704 of the TCA imposes limitations on what local and state governments can do. Section 704 prohibits any state and local government action which unreasonably discriminates among personal wireless providers. Local governments must ensure that its wireless ordinance does not contain requirements in the form of regulatory terms or fees which may have the "effect" of prohibiting the placement, construction, or modification of personal wireless services.

Section 704 also preempts any local zoning regulation purporting to regulate the placement, construction and modification of personal wireless service facilities on the basis, either directly or indirectly, on the environmental effects of radio frequency emissions (RF) of such facilities, which otherwise comply with FCC standards in this regard. See, 47 U.S.C. 332(c)(7)(B)(iv) (1996). This means that local authorities may not regulate the siting or construction of personal wireless facilities based on RF standards that are more stringent than those promulgated by the FCC.

Section 704 mandates that local governments act upon personal wireless service facility siting applications to place, construct, or modify a facility within a reasonable time. 47

U.S.C.332(c)(7)(B)(ii). See FCC Shot Clock ruling setting forth "reasonable time" standards for applications deemed complete.

Section 704 also mandates that the FCC provide technical support to local governments in order to encourage them to make property, rights-of-way, and easements under their jurisdiction available for the placement of new spectrum-based telecommunications services. This proceeding is currently at the comment stage.

For more information on the FCC's jurisdiction in this area, contact Steve Markendorff, Chief of the Broadband Branch, Commercial Wireless Division, Wireless Telecommunications Bureau, at (202) 418-0640 or e-mail "smarkend@fcc.gov".

GENERAL PLAN ANALYSIS

The subject property is located within the Urban Park and Open Space General Plan designation. The Urban Park and Open Space land use classification is intended to identify, enhance and maintain land for parks and open space. Its purpose is to maintain an urban park, school yard, and garden system which provides open space for outdoor recreation, psychological and physical well-being, and relief from the urban environment. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the civic, commercial or residential characteristics of the neighborhood, because the antennas will be mounted on the roof of a cemetery building located in the center of a 25.02 acre cemetery.

ZONING ANALYSIS

The subject property is located within the RM-1 Mixed Housing Type Residential Zone-1. The intent of the RM-1 zone is to create, maintain, and enhance residential areas characterized by a mix of single family homes, duplexes, and neighborhood businesses where appropriate. Consistent with the intent of the RM-1 Zone the proposed development will be compatible with, and will not adversely affect, the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage and density.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines lists the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15301, additions and alterations to existing facilities, and 15183, projects consistent with a community plan, general plan or zoning.

KEY ISSUES AND IMPACTS

1. Conditional Use Permit

Section 17.17.040 of the City of Oakland Planning Code requires a conditional use permit to install a Mini Telecommunication facility in the RM-1 zone. Furthermore, Section 17.134.020

defines a major and minor conditional use permit. Subsections (A)(3)(i) lists a Major Conditional Use Permit: "Any telecommunication facility in or within one hundred (100) feet of the boundary of any residential zone. The required findings for a major conditional use permit are listed and included in staff's evaluation as part of this report.

2. Project Site

Section 17.128.110 of the City of Oakland Telecommunication Regulations indicate that new wireless facilities shall generally be located on designated properties or facilities in the following order of preference:

- A. Co-located on an existing structure or facility with existing wireless antennas.
- B. City owned properties or other public or quasi-public facilities.
- C. Existing commercial or industrial structures in non-residential zones.
- D. Existing commercial or industrial structures in residential zones.
- E. Other non-residential uses in residential zones.
- F. Residential uses in non-residential zones.
- G. Residential uses in residential zones.

*Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis.

Since the proposed project involves the Co-location on an existing structure or facility with existing wireless antennas, the proposed project meets (A).

3. Project Design

Section 17.128.120 of the City of Oakland Telecommunications Regulations indicates that new wireless facilities shall generally be designed in the following order of preference:

- A. Building or structure mounted antennas completely concealed from view.
- B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
- D. Building or structure mounted antennas above roof line visible from public right of-way.
- E. Monopoles.
- F. Towers.

* Facilities designed to meet an A or B ranked preference do not require a site design alternatives analysis. Facilities designed to meet a C through F ranked preference, inclusive, must submit a site design alternatives analysis as part of the required application materials. A site design alternatives analysis shall, at a minimum, consist of:

- a. Written evidence indicating why each higher preference design alternative can not be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF

sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

City of Oakland Planning staff have reviewed and determined that the site selected is conforming to all other telecommunication regulation requirements. The project has met design criteria (A) since the antennas shall be mounted completely concealed behind an existing mechanical screen wall approximately 42 feet above the public right of way and will be setback from the edge of the building. The associated equipment shelters will have no visual impact since the equipment will be placed behind a gated area next to the building in the center of a 25.02 acre cemetery.

4. Project Radio Frequency Emissions Standards

Section 17.128.130 of the City of Oakland Telecommunication Regulations require that the applicant submit the following verifications including requests for modifications to existing facilities:

- a. With the initial application, a RF emissions report, prepared by a licensed professional engineer or other expert, indicating that the proposed site will operate within the current acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.
- b. Prior to commencement of construction, a RF emissions report indicating the baseline RF emissions condition at the proposed site.
- c. Prior to final building permit sign off, an RF emissions report indicating that the site is actually operating within the acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.

The applicant states that the proposed project meets the radio frequency (RF) emissions standards as required by the regulatory agency. Submitted with the initial application was a RF emissions report, prepared by EBI Consulting, (**attachment B**). The report states that the proposed project will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not cause a significant impact on the environment. Additionally, staff recommends that prior to the final building permit sign off, the applicant submits certified RF emissions report stating that the facility is operating within acceptable thresholds established by the regulatory federal agency.

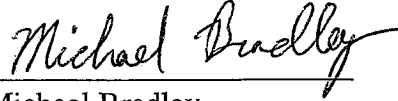
CONCLUSION

City of Oakland planning staff believes that the proposed project and subject property can be developed to meet the established zoning and telecommunication regulations that were created and adopted to set certain criteria minimums and maximums for similar types of developments. Staff believes that the findings for approval can be made to support the Conditional Use Permit, and Design Review.

RECOMMENDATIONS:

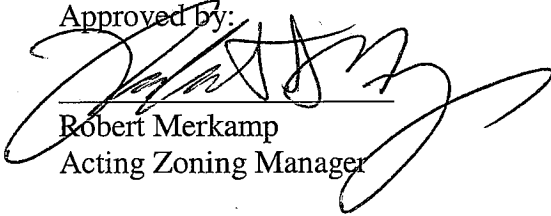
1. Affirm staff's environmental determination
2. Approve the Revision REV12-0011 of the Conditional Use Permit, and Design Review application CD08-018 subject to the attached findings and conditions of approval.

Prepared by:



Michael Bradley
Planner I

Approved by:



Robert Merkamp
Acting Zoning Manager

Approved for forwarding to the
City Planning Commission



Scott Miller, Interim Director
Department of Planning, Building and Neighborhood Preservation

ATTACHMENTS:

- A. Project Plans & Photo simulations
- B. EBI Consulting, RF Emissions Report

FINDINGS FOR APPROVAL**FINDINGS FOR APPROVAL:**

This proposal meets all the required findings under Section 17.134.050, of the General Use Permit criteria; all the required findings under Section 17.136.050.(B), of the Non- Residential Design Review criteria; all the required findings under Section 17.128.070(B), of the telecommunication facilities (Macro) Design Review criteria; and all the required findings under Section 17.128.070.(C), of the telecommunication facilities (Macro) Conditional Use Permit criteria; and as set forth below and which are required to approve your application. Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

SECTION 17.134.050 – GENERAL USE PERMIT FINDINGS:

A. That the location, size, design, and operating characteristics of the proposed development will be compatible with, and will not adversely affect, the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage, and density; to the availability of civic facilities and utilities; to harmful effect, if any upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development.

The location, size, design and operational characteristics of the proposal will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood. Consideration was given to the harmony in scale, bulk, and coverage; to the availability of civic facilities and utilities; to harmful effect, if any, upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development. The proposed telecommunications antennas will be located behind mechanical screening wall on the roof of the existing building and will not adversely affect the operating characteristic or livability of the existing area. The facility will be unmanned and will not create additional vehicular traffic in the area.

B. That the location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant.

The location, design and site planning of the proposed development will not detract from the existing civic environment and will preserve the existing character of the site by screening the new telecom facilities out of view from the general public

C. That the proposed development will enhance the successful operation of the surrounding area in its basic community functions, or will provide an essential service to the community or region.

The proposed development will enhance the successful operation of the surrounding area in its basic community function and will provide an essential service to the community or region. This will be achieved by improving the functional use of the site by providing a regional telecommunication facility for the community and will be available to police, fire, public safety organizations and the general public.

D. That the proposal conforms to all applicable design review criteria set forth in the DESIGN REVIEW PROCEDURE of Chapter 17.136 of the Oakland Planning Code.

The proposal conforms with all significant aspects of the design review criteria set forth in Chapter 17.136 of the Oakland Planning Code, as outlined below.

E. That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable plan or development control map which has been adopted by the City Council.

The subject property is located within the Urban Park and Open Space General Plan designation. The Urban Park and Open Space land use classification is intended to identify, enhance and maintain land for parks and open space. Its purpose is to maintain an urban park, school yard, and garden system which provides open space for outdoor recreation, psychological and physical well-being, and relief from the urban environment. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the civic, commercial or residential characteristics of the neighborhood, because the antennas will be mounted on the roof of a cemetery building located in the center of a 25.02 acre cemetery.

17.136.050(B) – NON-RESIDENTIAL DESIGN REVIEW CRITERIA:

1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060

The proposal is the expansion of a macro telecommunications facility which includes to replace three (3) panel antennas, replace two (2) cabinets, remove one cabinet, replace a GPS antenna, and install six (6) new RRU's. The proposed antennas will be placed behind an existing mechanical screening wall and therefore will be consistent and well related to the surrounding area in scale, bulk, height, materials, and textures. The antennas will also be located on a cemetery building located in the center of a 25.02 acre lot and will not be visible from the street.

2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area;

The design will be appropriate and compatible with current zoning and general plan land use designations. The proposal protects and preserves the surrounding neighborhood context by adding wireless telecommunication antennas to a residential area. The antennas will be concealed from public view and will not have any visual impact on the neighborhood.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or

development control map which have been adopted by the Planning Commission or City Council.

The proposal conforms with the City of Oakland Comprehensive General Plan meeting specific General Plan policies and the Supplemental Report and Recommendations on Revisions to the Citywide Telecommunications Regulations. The proposal will conform to performance standards for noise set forth in Section 17.120.050 for decibels levels in residential areas for both day and nighttime use. The Project conforms to all macro-facility definitions set forth in Section 17.128.070 and meets all design review criteria to minimize all impacts throughout the neighborhood

17.128.070(B) DESIGN REVIEW CRITERIA FOR MACRO FACILITIES

B. Design Review Criteria for Micro Facilities. In addition to the design review criteria listed in Chapter 17.136, the following specific additional criteria must be met when design review is required before an application can be granted:

1. Antennas should be painted and/or textured to match the existing structure.

The antennas will be mounted behind an existing screening wall on the top of an existing cemetery building located in the center of a 25.02 acre lot and will not be visible from the street.

2. Antennas mounted on architecturally significant structures or significant architectural details of the building should be covered by appropriate casings which are manufactured to match existing architectural features found on the building.

The antennas will be mounted behind an existing screening wall on the top of an existing cemetery building located in the center of a 25.02 acre lot and will not be visible from the street.

3. Where feasible, antennas can be placed directly above, below or incorporated with vertical design elements of a building to help in camouflaging.

The antennas will be mounted behind an existing screening wall on the top of an existing cemetery building located in the center of a 25.02 acre lot and will not be visible from the street.

4. Equipment shelters or cabinets shall be screened from the public view by using landscaping, or materials and colors consistent with surrounding backdrop or placed underground or inside existing facilities or behind screening fences.

The equipment cabinets will be located inside a locked and screened gated area next to the existing building and will not be visible from public view.

5. Equipment shelters or cabinets shall be consistent with the general character of the area.

The equipment cabinets will be located inside a locked and screened gated area next to the existing building and will not be visible from public view.

6. For antennas attached to the roof, maintain a 1:1 ratio (example: ten feet high antenna requires ten feet setback from facade) for equipment setback; screen the antennas to match existing air conditioning units, stairs, or elevator towers; avoid placing roof mounted antennas in direct line with significant view corridors.

The proposed replacement antennas will be mounted on existing pole mounts that are setback back from the edge of the roof and are located behind an existing mechanical screening wall.

7. That all reasonable means of reducing public access to the antennas and equipment has been made, including, but not limited to, placement in or on buildings or structures, fencing, anti-climbing measures and anti-tampering devices.

The antennas will be mounted to the roof and will not be accessible to the public due to its location. The equipment cabinets will be located inside a locked gated area next to the existing building.

17.128.070(B) CONDITIONAL USE PERMIT CRITERIA FOR MACRO FACILITIES

C. Conditional Use Permit Criteria for Macro Facilities. In addition to the conditional use criteria listed in Chapter 17.134, the following specific additional criteria must be met before a conditional use permit can be granted:

1. The project must be demonstrated to have no visual impact.

The antennas will be mounted behind an existing screening wall on the top of an existing cemetery building located in the center of a 25.02 acre lot and will not be visible from the street.

2. The project must meet the special design review criteria listed in subsection B of this section.

The proposed project meets the special design review criteria listed above in section 17.128.070B.

CONDITIONS OF APPROVAL

STANDARD CONDITIONS:

1. Approved Use

Ongoing

a) The project shall be constructed and operated in accordance with the authorized use as described in the application materials, **REV12-0011**, and the plans dated **August 3, 2012** and submitted on **August 15, 2012** and as amended by the following conditions. Any additional uses or facilities other than those approved with this permit, as described in the project description and the approved plans, will require a separate application and approval. Any deviation from the approved drawings, Conditions of Approval or use shall required prior written approval from the Director of City Planning or designee.

b) This action by the City Planning Commission ("this Approval") includes the approvals set forth below. This Approval includes: **A revision of a previously granted Conditional Use Permit and Design Review that would replace three (3) panel antennas, replace two (2) cabinets, remove one cabinet, replace a GPS antenna, and install six (6) new RRU's at 6450 Camden Street (APN: 039-3282-001-08), under Oakland Municipal Code 17.128, 17.136, and 17.134.**

2. Effective Date, Expiration, Extensions and Extinguishment

Ongoing

Unless a different termination date is prescribed, this Approval shall expire **two calendar years** from the approval date, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this permit, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit for this project may invalidate this Approval if the said extension period has also expired.

3. Scope of This Approval; Major and Minor Changes

Ongoing

The project is approved pursuant to the **Oakland Planning Code** only. Minor changes to approved plans may be approved administratively by the Director of City Planning or designee. Major changes to the approved plans shall be reviewed by the Director of City Planning or designee to determine whether such changes require submittal and approval of a revision to the approved project by the approving body or a new, completely independent permit.

4. Conformance with other Requirements

Prior to issuance of a demolition, grading, P-job, or other construction related permit

- a) The project applicant shall comply with all other applicable federal, state, regional and/or local codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Building Services Division, the City's Fire Marshal, and the City's Public Works Agency.
- b) The applicant shall submit approved building plans for project-specific needs related to fire protection to the Fire Services Division for review and approval, including, but not

limited to automatic extinguishing systems, water supply improvements and hydrants, fire department access, and vegetation management for preventing fires and soil erosion.

5. Conformance to Approved Plans; Modification of Conditions or Revocation**Ongoing**

- a) Site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60-90 days of approval, unless an earlier date is specified elsewhere.
- b) The City of Oakland reserves the right at any time during construction to require certification by a licensed professional that the as-built project conforms to all applicable zoning requirements, including but not limited to approved maximum heights and minimum setbacks. Failure to construct the project in accordance with approved plans may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension or other corrective action.
- c) Violation of any term, conditions or project description relating to the Approvals is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approvals or alter these conditions if it is found that there is violation of any of the conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions.

6. Signed Copy of the Conditions**With submittal of a demolition, grading, and building permit**

A copy of the approval letter and conditions shall be signed by the property owner, notarized, and submitted with each set of permit plans to the appropriate City agency for this project.

7. Indemnification**Ongoing**

- a) To the maximum extent permitted by law, the applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the City of Oakland Redevelopment Agency, the Oakland City Planning Commission and its respective agents, officers, and employees (hereafter collectively called City) from any liability, damages, claim, judgment, loss (direct or indirect) action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul, (1) an approval by the City relating to a development-related application or subdivision or (2) implementation of an approved development-related project. The City may elect, in its sole discretion, to participate in the defense of said Action and the applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.
- b) Within ten (10) calendar days of the filing of any Action as specified in subsection A above, the applicant shall execute a Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Letter of Agreement shall survive termination, extinguishment or invalidation of the approval. Failure to timely execute the Letter of Agreement does not relieve the applicant of

any of the obligations contained in this condition or other requirements or Conditions of Approval that may be imposed by the City.

8. Compliance with Conditions of Approval***Ongoing***

The project applicant shall be responsible for compliance with the recommendations in any submitted and approved technical report and all the Conditions of Approval set forth below at its sole cost and expense, and subject to review and approval of the City of Oakland.

9. Severability***Ongoing***

Approval of the project would not have been granted but for the applicability and validity of each and every one of the specified conditions, and if any one or more of such conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid conditions consistent with achieving the same purpose and intent of such Approval.

10. Job Site Plans***Ongoing throughout demolition, grading, and/or construction***

At least one (1) copy of the stamped approved plans, along with the Approval Letter and Conditions of Approval, shall be available for review at the job site at all times.

11. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Management***Prior to issuance of a demolition, grading, and/or construction permit***

The project applicant may be required to pay for on-call special inspector(s)/inspections as needed during the times of extensive or specialized plancheck review, or construction. The project applicant may also be required to cover the full costs of independent technical and other types of peer review, monitoring and inspection, including without limitation, third party plan check fees, including inspections of violations of Conditions of Approval. The project applicant shall establish a deposit with the Building Services Division, as directed by the Building Official, Director of City Planning or designee.

12. Days/Hours of Construction Operation***Ongoing throughout demolition, grading, and/or construction***

The project applicant shall require construction contractors to limit standard construction activities as follows:

- a) Construction activities are limited to between 7:00 AM and 7:00 PM Monday through Friday, except that pile driving and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. Monday through Friday.
- b) Any construction activity proposed to occur outside of the standard hours of 7:00 am to 7:00 pm Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

- c) Construction activity shall not occur on Saturdays, with the following possible exceptions:
 - i. Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division.
 - ii. After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed.
- d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.
- e) No construction activity shall take place on Sundays or Federal holidays.
- f) Construction activities include but are not limited to: truck idling, moving equipment (including trucks, elevators, etc) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.

13. Landscape Maintenance**Ongoing**

All new landscaping shall be permanently maintained in good growing condition and, whenever necessary, replaced with new plant materials to ensure continued compliance with applicable landscaping requirements.

14. Operational Noise-General**Ongoing**

Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

PROJECT SPECIFIC CONDITONS:**15. Radio Frequency Emissions****Prior to the final building permit sign off**

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

Sprint



SITE NAME: THE SEMINARY

SITE NUMBER: SF35XC001-A

MARKET NAME: SF BAY
NETWORK VISION MM LAUNCH

SITE ADDRESS:

6450 CAMDEN STREET
OAKLAND, CA 94605
ALAMEDA COUNTY

SITE TYPE:

EQUIPMENT AT GRADE
ROOFTOP ANTENNAS

ATC SITE #:

276275



SITE INFORMATION

SITE ADDRESS:
6450 CAMDEN STREET
OAKLAND, CA 94605

PROPERTY OWNER:
EVERGREEN CEMETERY ASSOCIATION
1000 14TH STREET
OAKLAND, CA 94612
CONTACT: BUCK KAPRAHAUSEN, PRESIDENT
PHONE: (415) 798-5806

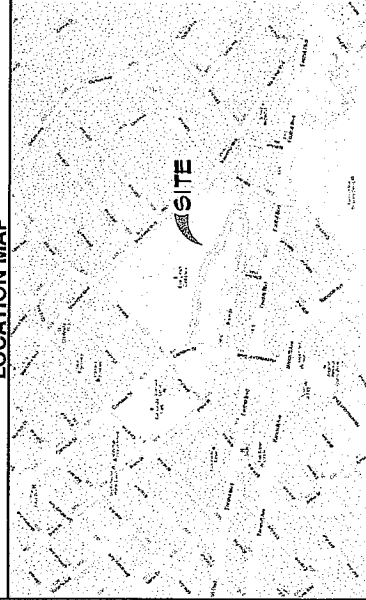
APPLICANT REPRESENTATIVE:
MICHELLE WELLS
CORTEL LLC
1000 14TH STREET
OAKLAND, CA 94612
PHONE: (415) 798-5806

CONSTRUCTION MANAGERS:
OVERLAND CONTRACTING
1000 14TH STREET
OAKLAND, CA 94612
PHONE: (415) 798-5806

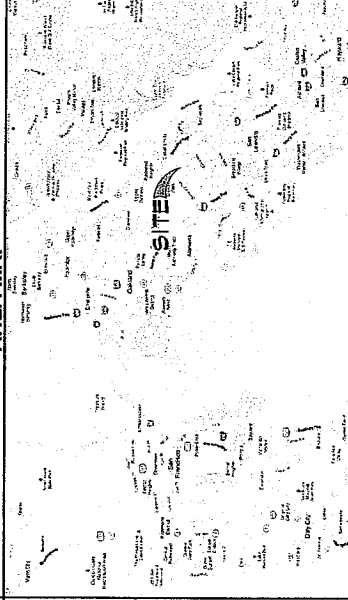
EQUIPMENT SUPPLIERS:
SAMSUNG TELECOMMUNICATIONS AMERICA (STA)
1000 14TH STREET
OAKLAND, CA 94612
PHONE: (415) 798-5806

COUNTY:
ALAMEDA

LOCATION MAP



AREA MAP



APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
2010 CALIFORNIA BUILDING CODE
2010 CALIFORNIA MECHANICAL CODE
2010 CALIFORNIA PLUMBING CODE
2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

DRAWING INDEX

T-1 TITLE SHEET
A-1 SITE PLAN
A-2 ENLARGED SITE PLAN
A-3 EQUIPMENT LAYOUT & SCHEDULE
A-4 ANTENNA LAYOUT & SCHEDULE
A-5 ELEVATIONS
A-6 ELEVATIONS
A-7 ELEVATIONS
D-1 EQUIPMENT DETAILS
D-2 ANTENNA, RSU & FILTER DETAILS
F-1 FIBER PLAN & ENLARGED FIBER PLAN
F-2 FIBER ONE-LINE DIAGRAM & DETAILS

PROJECT DESCRIPTION

THE PROPOSED PROJECT SHALL INCLUDE:
REMOVAL AND ADDITION OF EQUIPMENT WITHIN THE EXISTING EQUIPMENT AREA
REMOVE (3) EXISTING EQUIPMENT CABINETS & (1) EXISTING GPS ANTENNA
INSTALL (3) NEW EQUIPMENT CABINETS & (1) NEW GPS ANTENNA
REMOVAL AND NEW INSTALLATION OF ANTENNAS TO BE MOUNTED TO PROPOSED ANTENNA MASTS BEHIND EXISTING RF TRANSPARENT SCREENING
REMOVE (3) EXISTING SPRINT PANEL ANTENNAS
INSTALL (3) NEW SPRINT PANEL ANTENNAS ON PROPOSED CROSS ARMS
INSTALLATION OF ASSOCIATED EQUIPMENT/CABLING ON THE PROPOSED SECTOR TRAILER
INSTALL (2) NEW REUS ON EXISTING TRIPOD MASTS
INSTALL (2) NEW FILTERS ON PROPOSED REUS
INSTALL (2) NEW ANTENNAS FROM NEW EQUIPMENT TO THE ANTENNAS ALONG THE EXISTING ANTENNA CABLE PATH

ENGINEER OF RECORD

ZALZALI & ASSOCIATES INC.
2070 BUSINESS CENTER DR. STE 200
IRVINE, CA 92612
ENGINEER: MURRAY ZALZALI (P.E.# C71655)
PHONE: (714) 601-9524
FAX: (714) 601-9524
WWW.ZALZALI.COM

DRIVING DIRECTIONS FROM NEAREST AIRPORT

FROM 190 AIRPORT:
TAKE THE RAMP ONTO US-101 N. SLIGHT RIGHT ONTO I-80 E. (SIGN FOR BAY BRIDGE/OAKLAND). TAKE EXIT 88 TO MERGE ONTO I-80 E TOWARD CA-24/HAYWARD/STOCKTON. TAKE EXIT 283 TO MERGE ONTO HACARTHUR BLVD. TURN RIGHT TO STAY ON HACARTHUR BLVD. SLIGHT LEFT TO STAY ON HACARTHUR BLVD. CONTINUE ONTO CAMDEN ST. SITE WILL BE ON THE LEFT
4450 CAMDEN ST OAKLAND, CA 94605

NOT TO BE USED FOR CONSTRUCTION

ATTACHMENT A

IT IS A VIOLATION OF THE PROFESSIONAL ENGINEER ACT TO REPRODUCE OR TRANSMIT THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER OF RECORD.

SF35XC001
THE SEMIN
6450 CAMDEN
OAKLAND, CA

SHEET T-1
TITLE SHEET

SHEET NUMBER
T-1

NOTE: PROPERTY LINES SHOWN ARE PRELIMINARY AND DONE WITHOUT THE BENEFIT OF A SITE SURVEY



PROJECT NO.	-
DRAWN BY:	KM
CHECKED BY:	DK

REV	DATE	DESCRIPTION
0	06/05/2012	ISSUED FOR JAP
1	07/25/2012	ISSUED FOR REDLINS
2	08/20/2012	ISSUED FOR REDLINS
3	08/20/2012	ISSUED FOR REDLINS

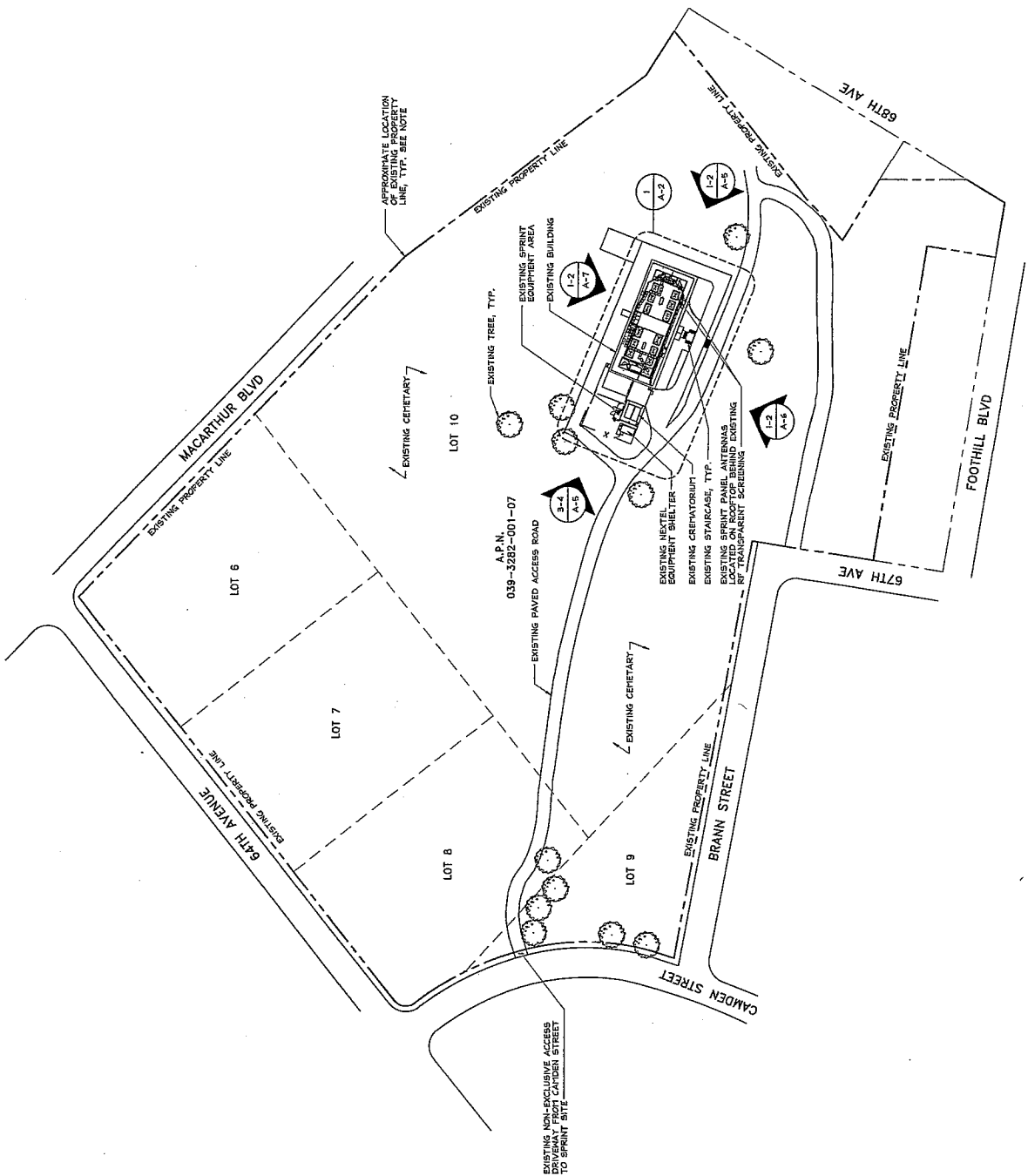
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SF35XC001-A
THE SEMINARY
6450 CAMDEN STREET
OAKLAND, CA 94605

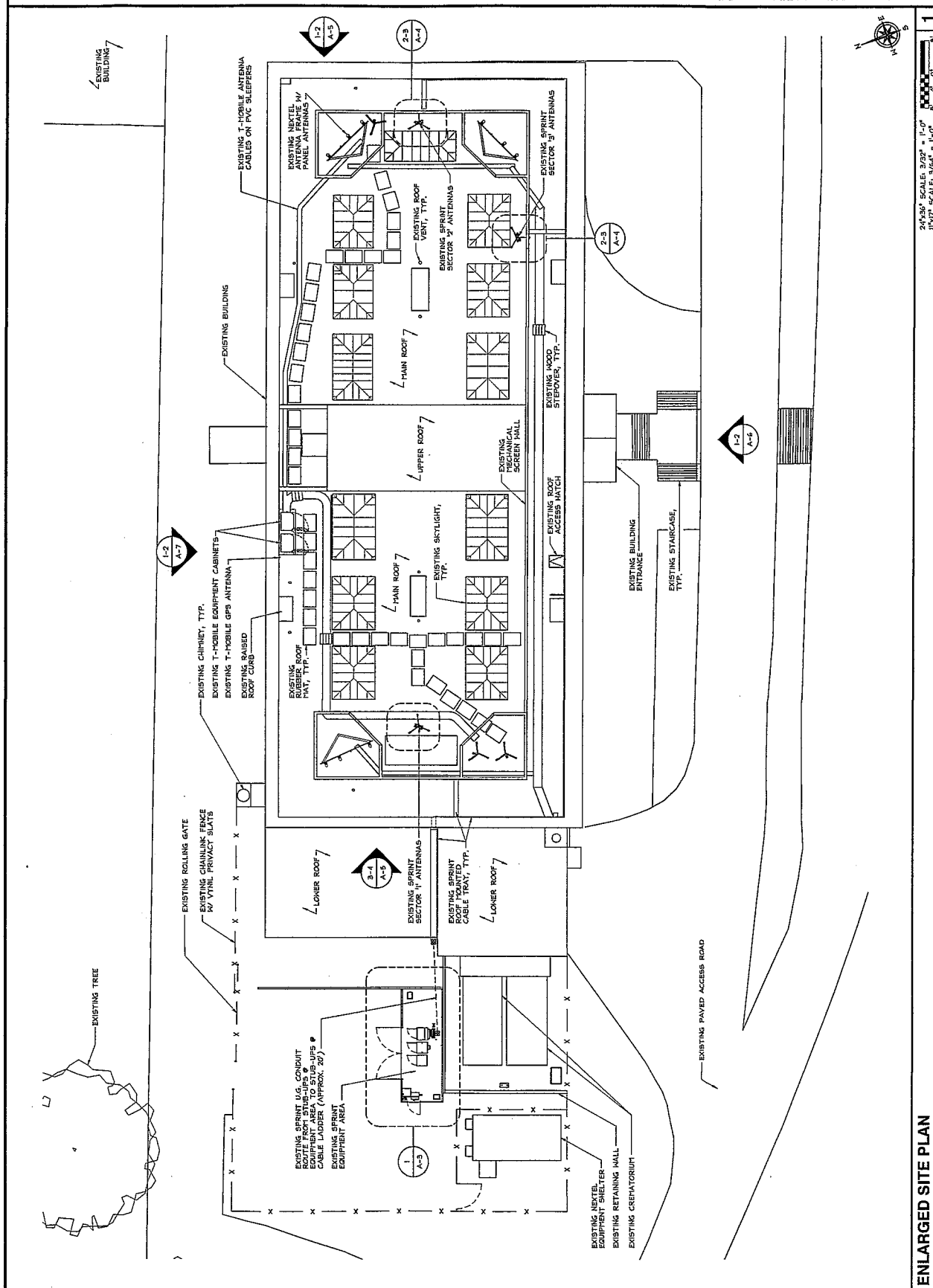
SHEET TITLE
SITE PLAN


SHEET NUMBER
A-1




SCALE: 1" = 50'-0"
HWT SCALE: 1" = 100'-0"


SITE PLAN






6450 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66201





BLACK & VEATCH



ZALZAL & ASSOCIATES INC.
2070 BUSINESS CENTER DR. SUITE 200
IRVINE, CA 92612

PROJECT NO. _____
DRAWN BY: RTI
CHECKED BY: DM

REV	DATE	DESCRIPTION
0	08/03/2007	100% 10% FOR ZAP
1	07/23/2007	100% 10% FOR REDLINES
2	06/27/2007	100% 10% FOR REDLINES

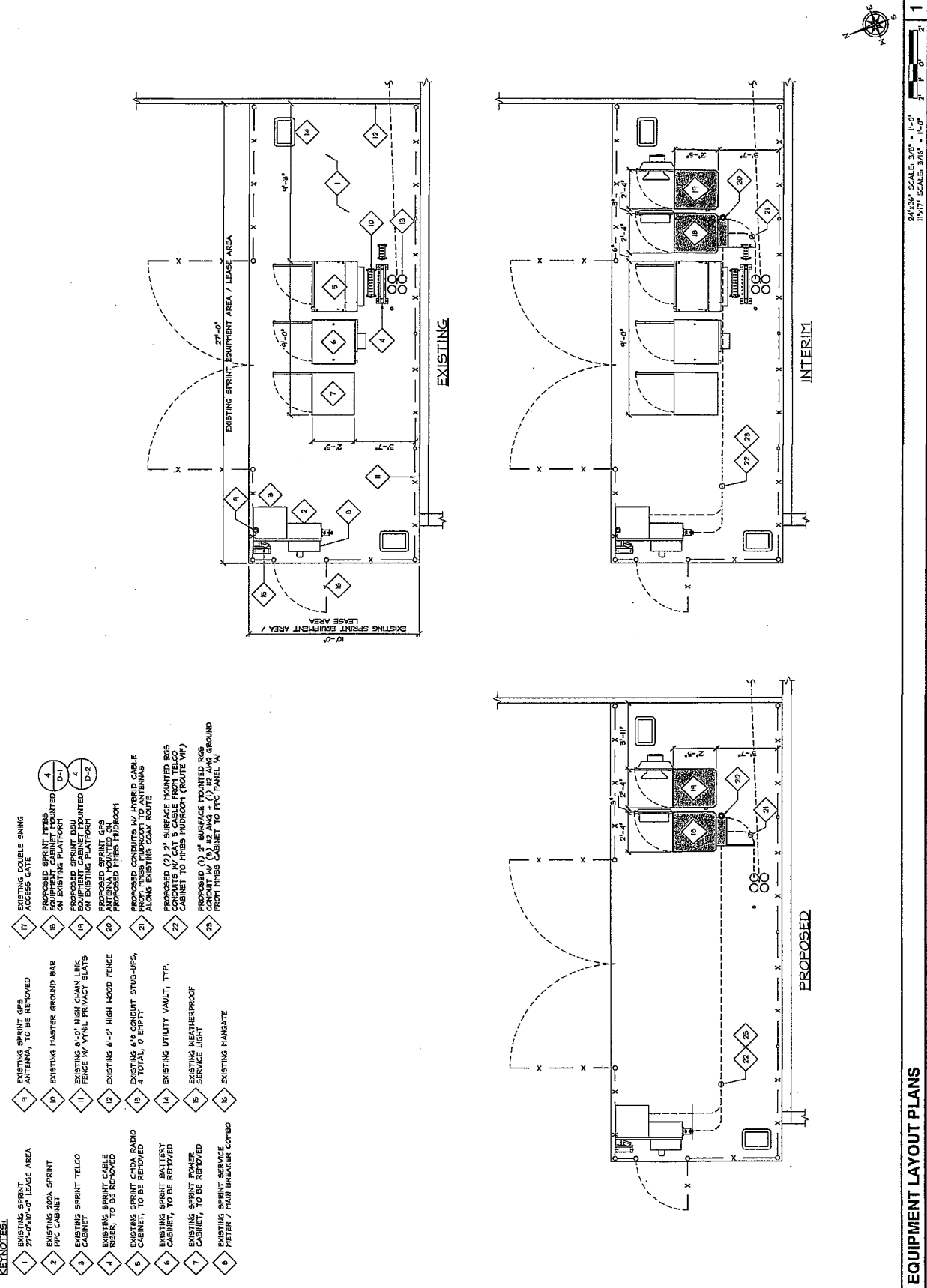
NOT TO BE USED FOR CONSTRUCTION

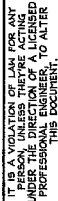
THIS DOCUMENT IS FOR ANY PURPOSES AND NOT BE USED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SF55X0001-A
THE SEMINARY
6450 CAMDEN STREET
OAKLAND, CA 94605

SHEET TITLE
EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-3





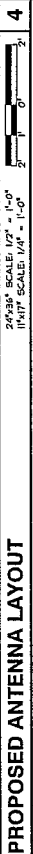
A-4

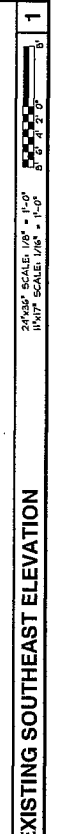


ANTENNA MOUNTING NOTES

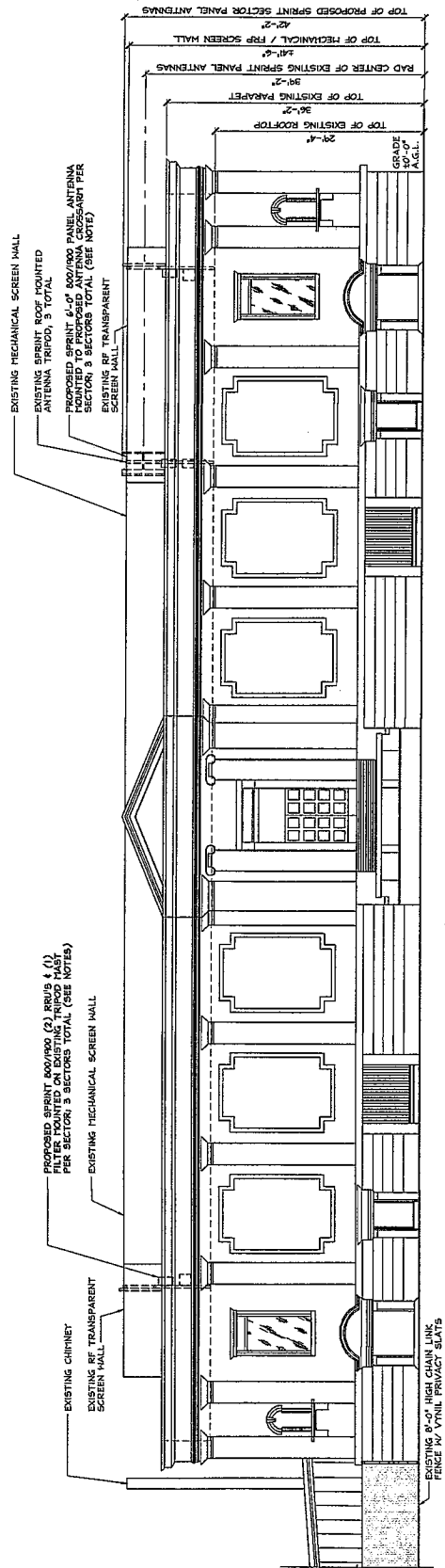
1. APPROXIMATE LENGTH OF (1) ANTENNA CABLE RUN = (APPROX. LENGTH OF LATERAL DISTANCE + ANTENNA MOUNTING HEIGHT) * 20'
2. A DIGITAL LEVEL MUST VERIFY THE HORIZONTAL OF EACH ANTENNA WITHIN 1/8" PER 10'.
3. CONTRACTOR TO CONFIRM ANTENNA CABLE COLOR CODING PRIOR TO CONSTRUCTION. (SEE SHEET R-2)
4. COLOR BANDING SHALL BE #1 RIDE ON THE MAIN LINE (5' HORIZ. MIN.) SPACING TO BE BETWEEN COLORS. COLOR BAND ON JOINTS SHALL BE 1/2" MIN. SPACING. CONTRACTOR TO VERIFY COLOR BANDING PRIOR TO WEATHERPROOFING. START SECTOR COLOR NEXT TO END CONNECTOR. END SECTOR COLOR NEXT TO START CONNECTOR. CONTRACTOR TO VERIFY ALL ANTENNA CABLE COLOR CODING.
5. CONTRACTOR SHALL VERIFY ALL ANTENNA CABLES IN LENGTH, CONTRACT SPECIFIC LENGTHS SHALL BE WITHIN TOLERANCES.

24"x36" SCALE, NTS	1
11"x17" SCALE, NTS	



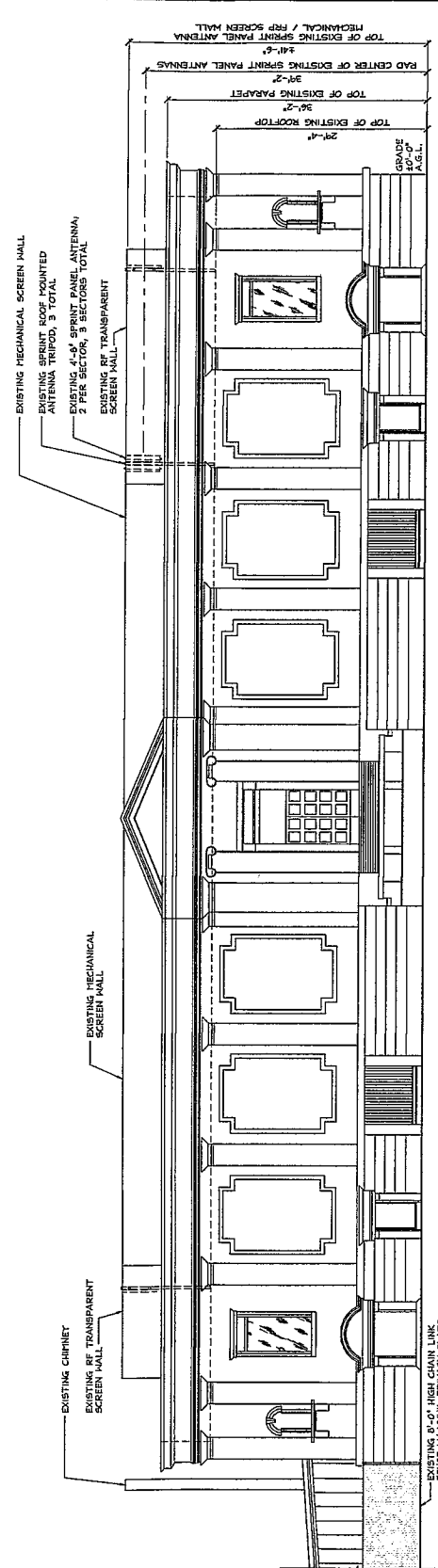


NOTE:
1. PROPOSED SPRINT ANTENNAS & ASSOCIATED HARDWARE TO BE CONCEALED BEHIND EXISTING TRANSPARENT SCREEN WALL. SCREEN WALL TO BE PAINTED TO MATCH EXISTING SCREEN WALL.



PROPOSED SOUTHWEST ELEVATION

24'-5 1/2" SCALE: 1/8" = 1'-0"
11'-4 1/2" SCALE: 1/16" = 1'-0"



EXISTING SOUTHWEST ELEVATION

24'-5 1/2" SCALE: 1/8" = 1'-0"
11'-4 1/2" SCALE: 1/16" = 1'-0"



PROJECT NO.	-
DRAWN BY:	RT
CHECKED BY:	DM

REV	DATE	DESCRIPTION
0	06/08/2002	REV 105 FOR 2P
B	07/29/2002	REV 105 FOR REVISIONS
A	06/20/2002	REV 105 FOR REVISIONS

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SF35X0001-A
THE SEMINARY
6450 CAMDEN STREET
OAKLAND, CA 94605

SHEET TITLE
ELEVATIONS

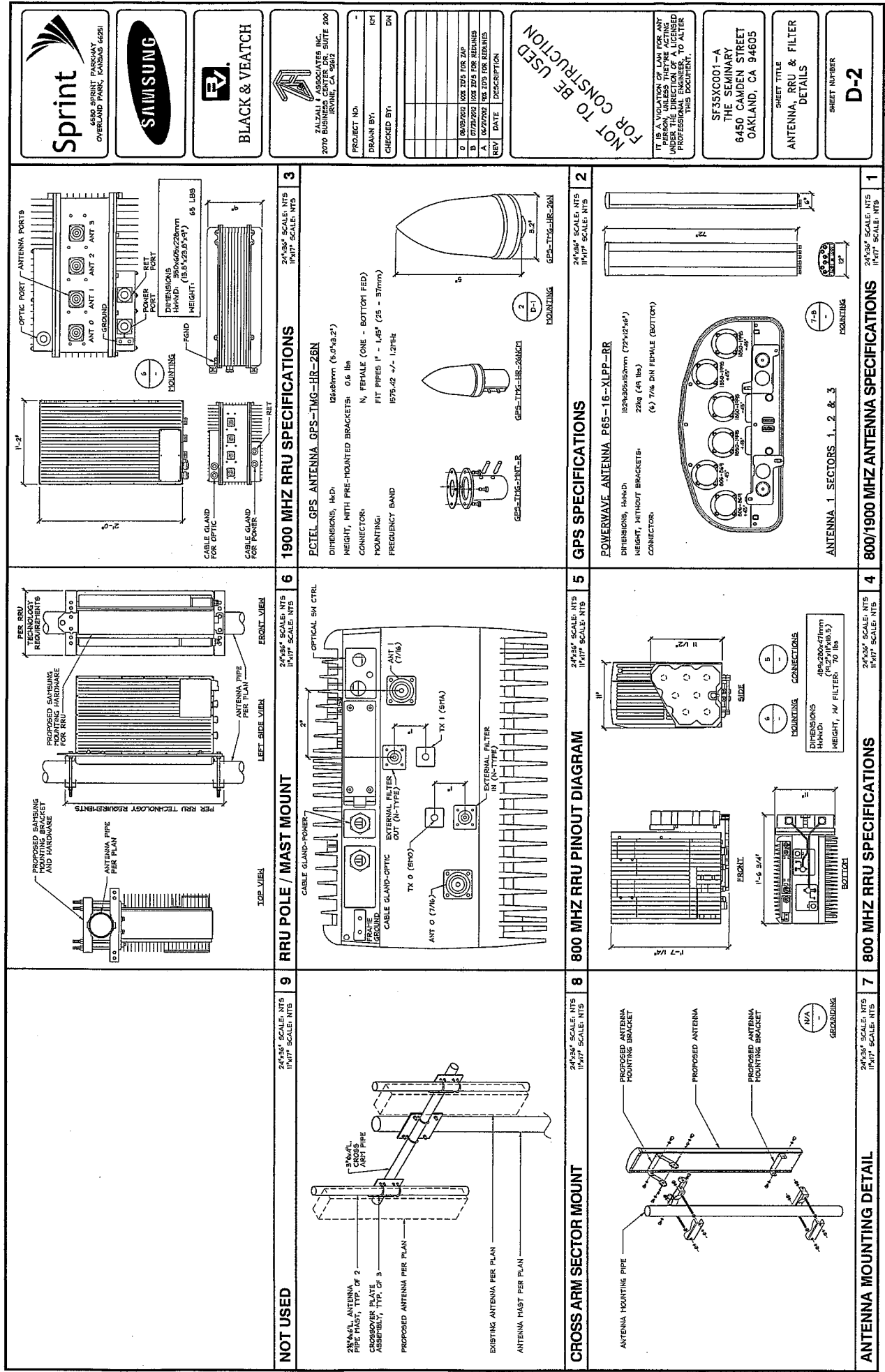
SHEET NUMBER
A-6



24"x36" SCALE: 1/8" = 1'-0"



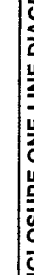
NOTE:
CONDUIT ROUTING REQUIREMENTS SHALL BE PER
2010 CALIFORNIA ELECTRICAL CODE, 2008 NEC,
AND LOCAL JURISDICTIONAL CODES



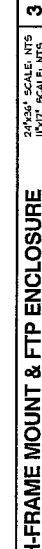


ENLARGED FIBER PLAN

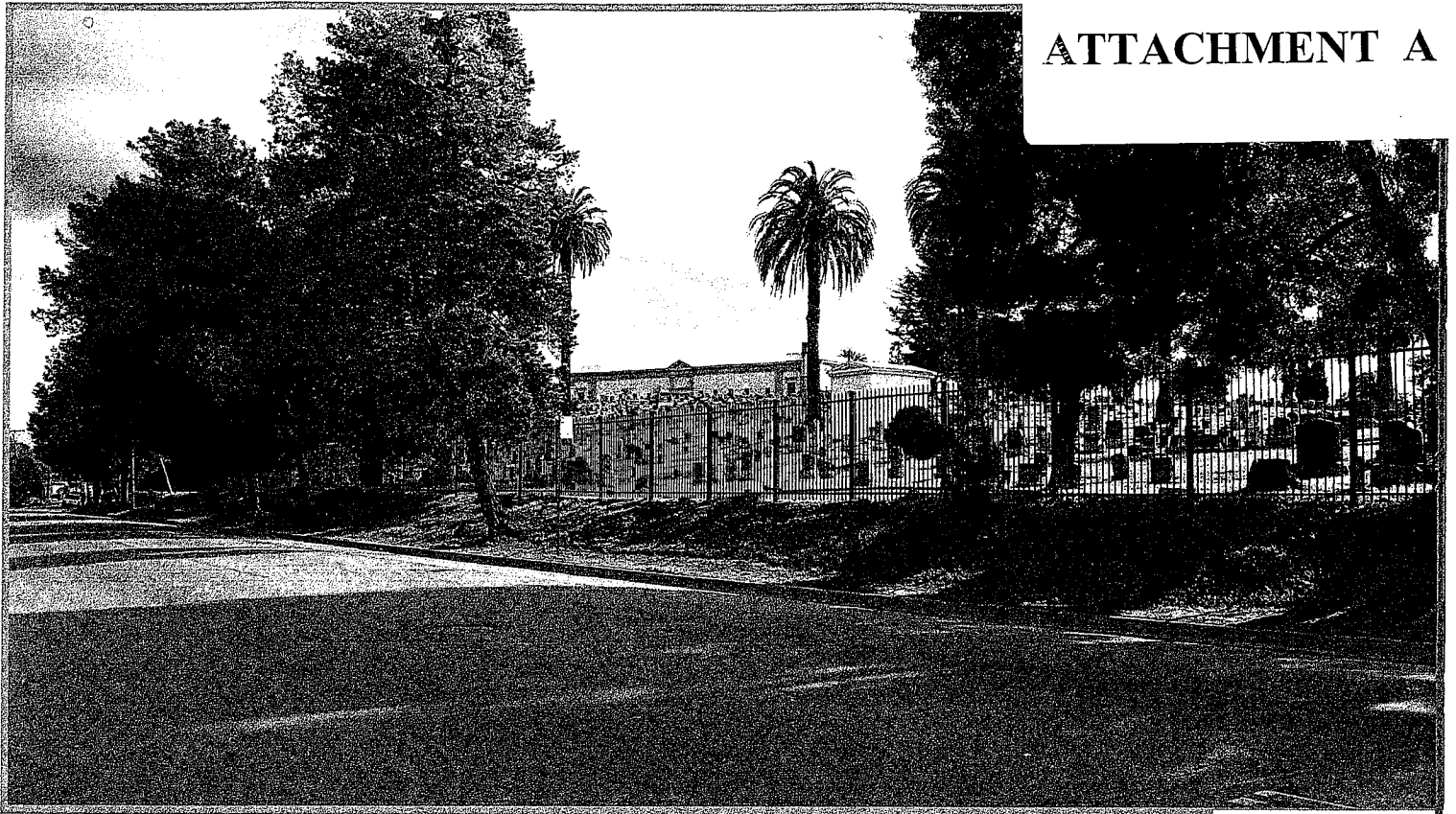
OVERALL FIBER PLAN



24"x36" SCALE: NTS	1
11"x17" SCALE: NTS	

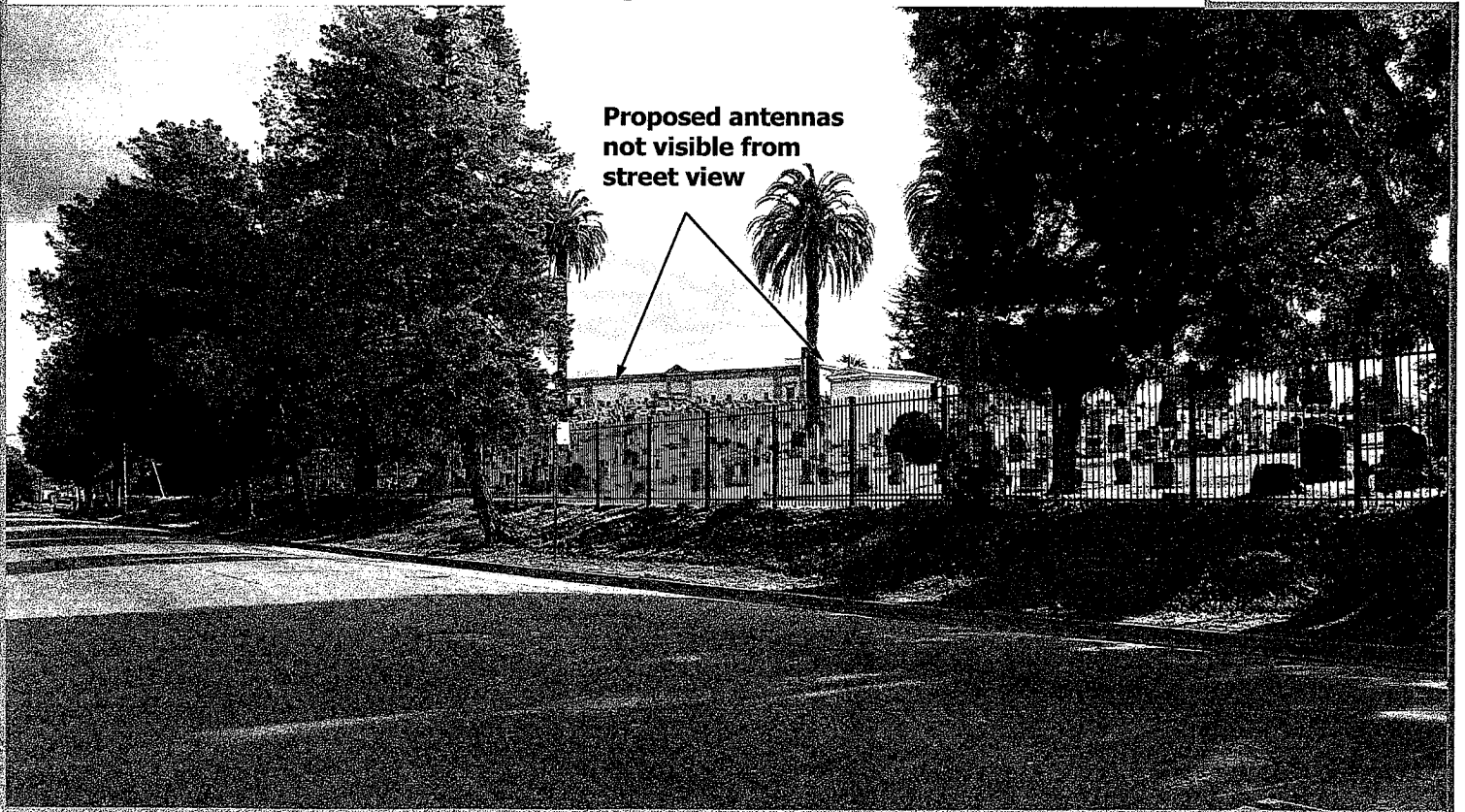


I-FRAME MOUNT & FTP ENCLOSURE



EXISTING

Proposed modification cannot be seen facing south from MacArthur Blvd & 65th Ave





EXISTING

Proposed modification cannot be seen facing west from MacArthur Blvd & 68th Ave



**CYPRESS
LAB**

350 Wayne Place #3
Oakland, CA 94606

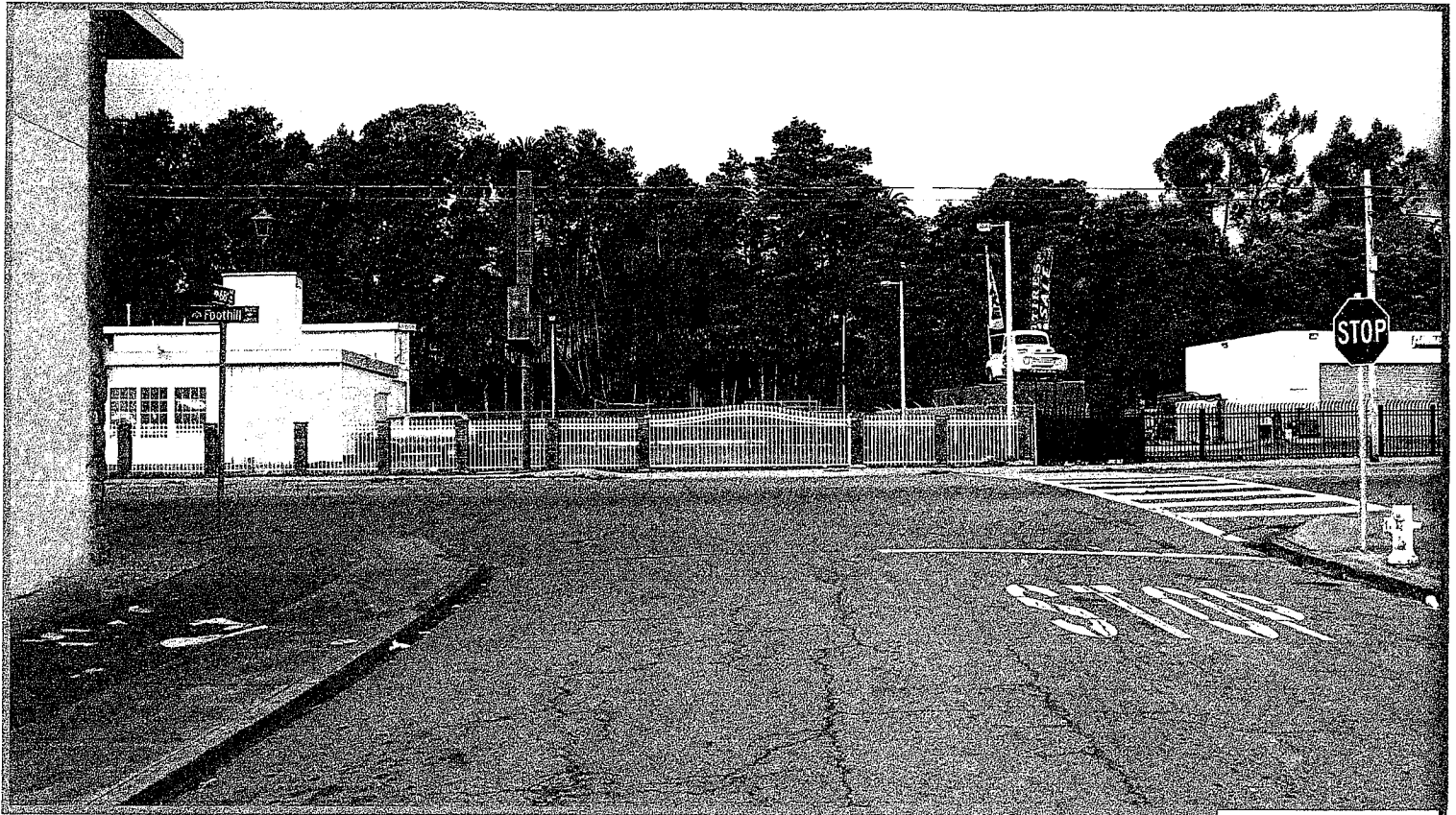
www.thecypresslab.com
info@thecypresslab.com

View 2 of 6

Sprint

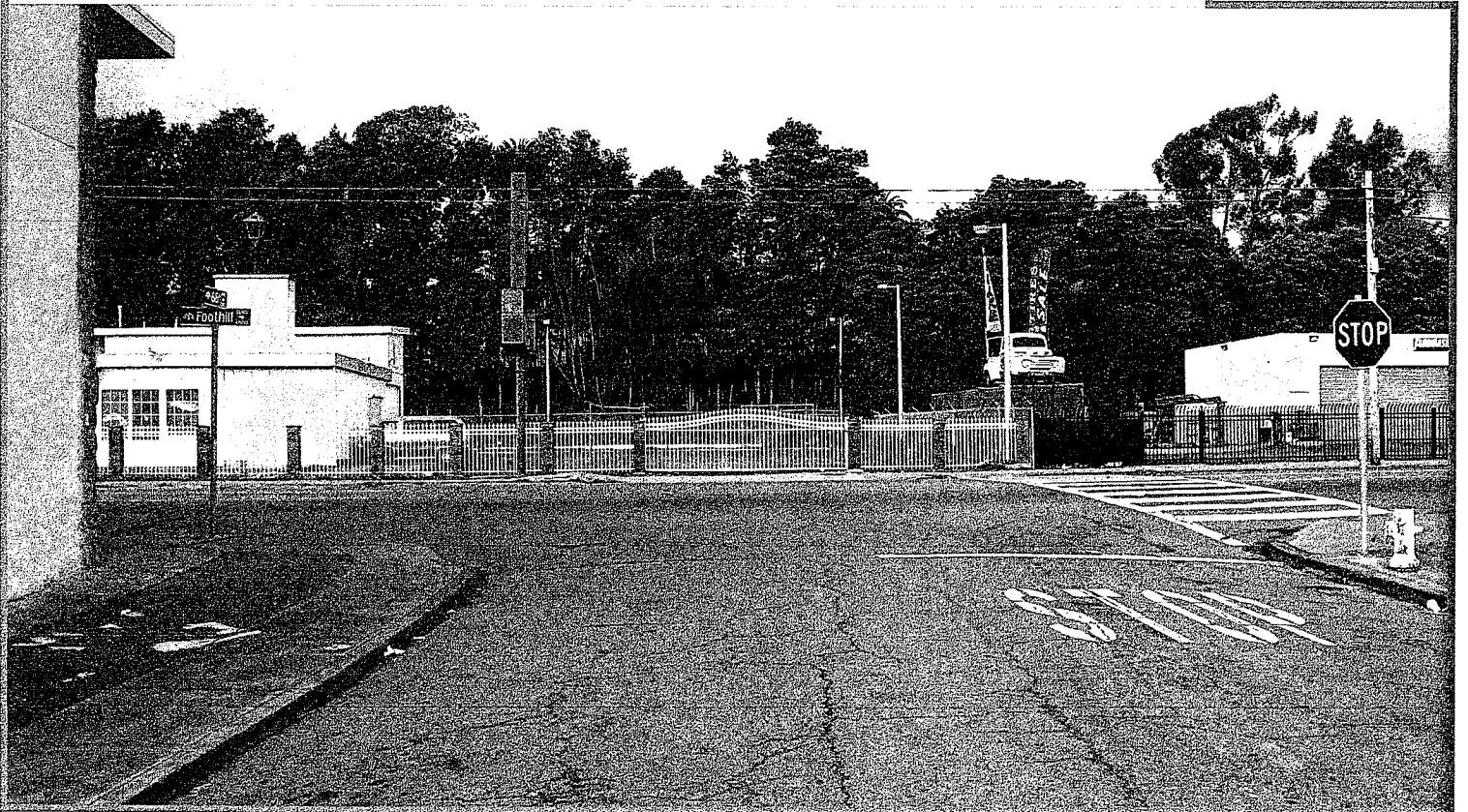


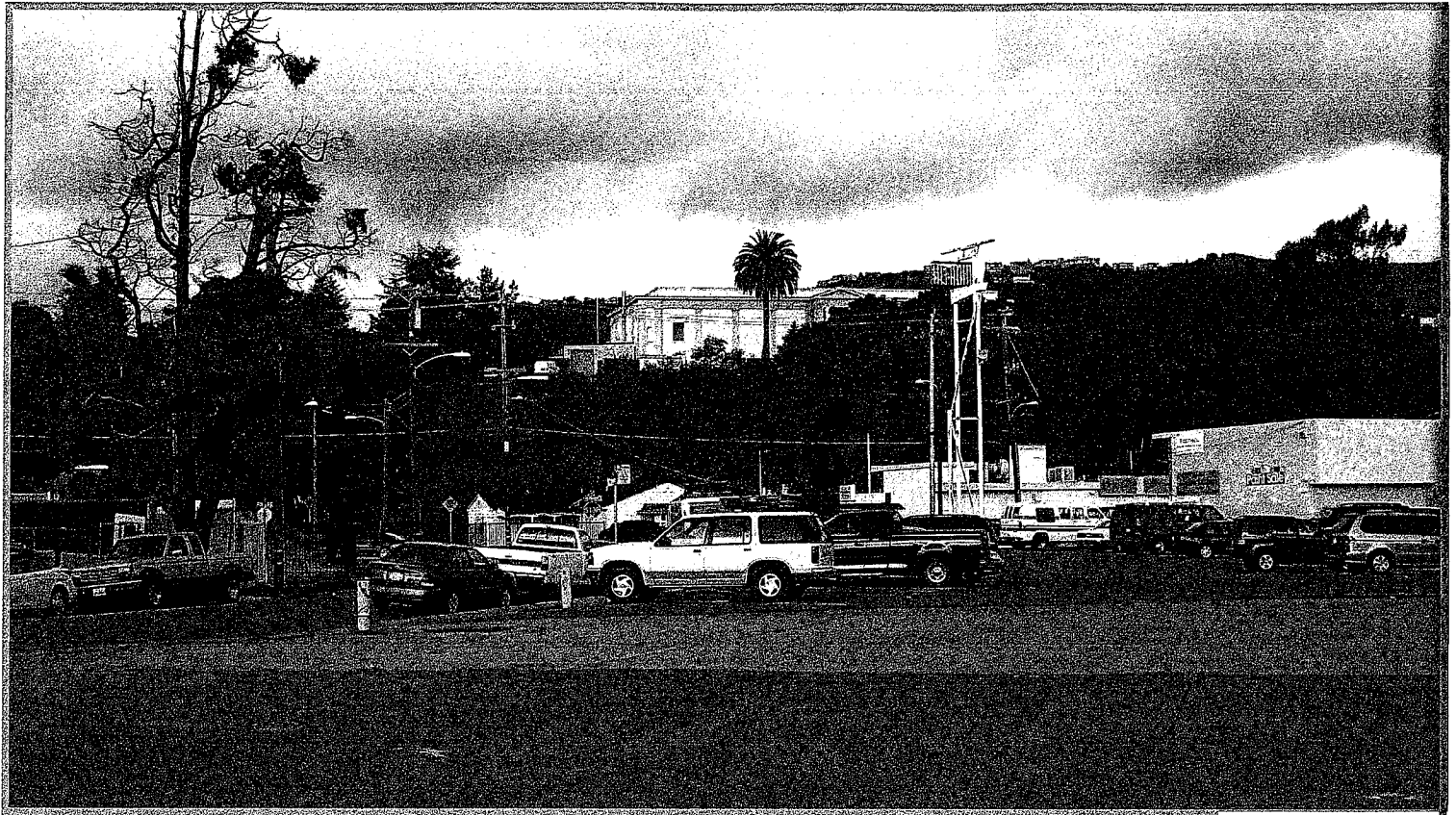
SF35XC001
6450 Camden Street
Oakland, CA 94605



EXISTING

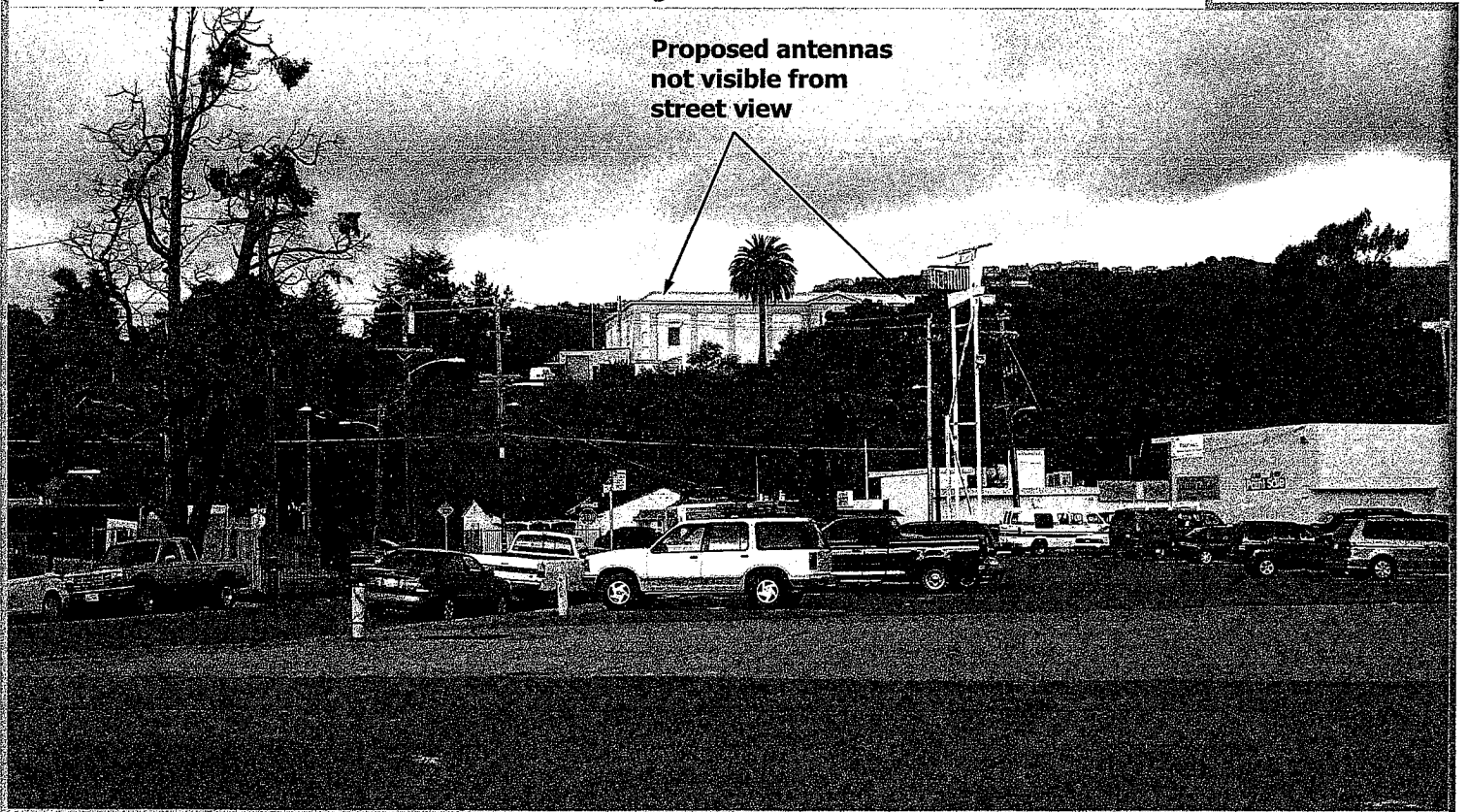
Proposed modification cannot be seen facing north from Foothill Blvd & 68th Ave





EXISTING

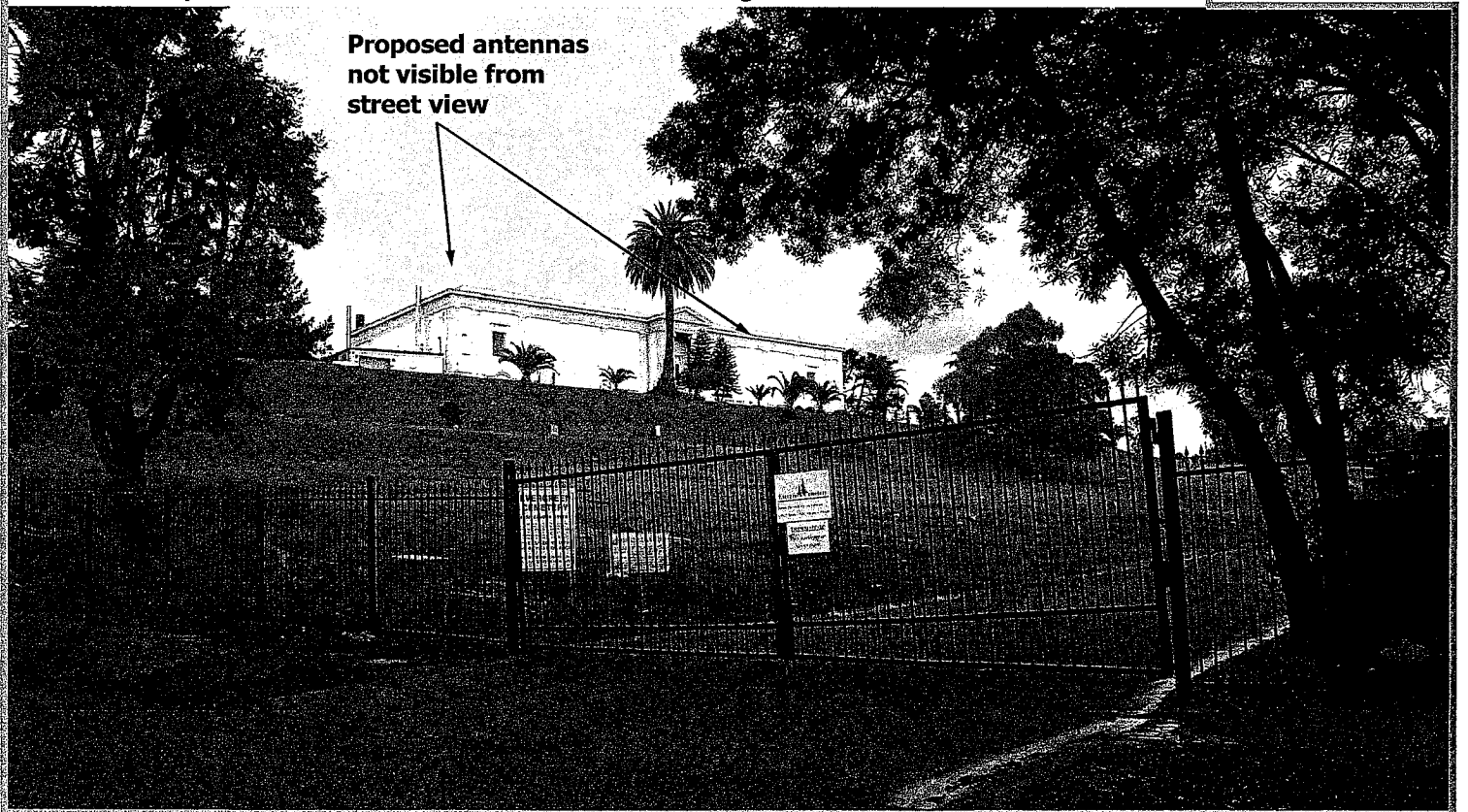
Proposed modification cannot be seen facing NE from Foothill Blvd & 67th Ave

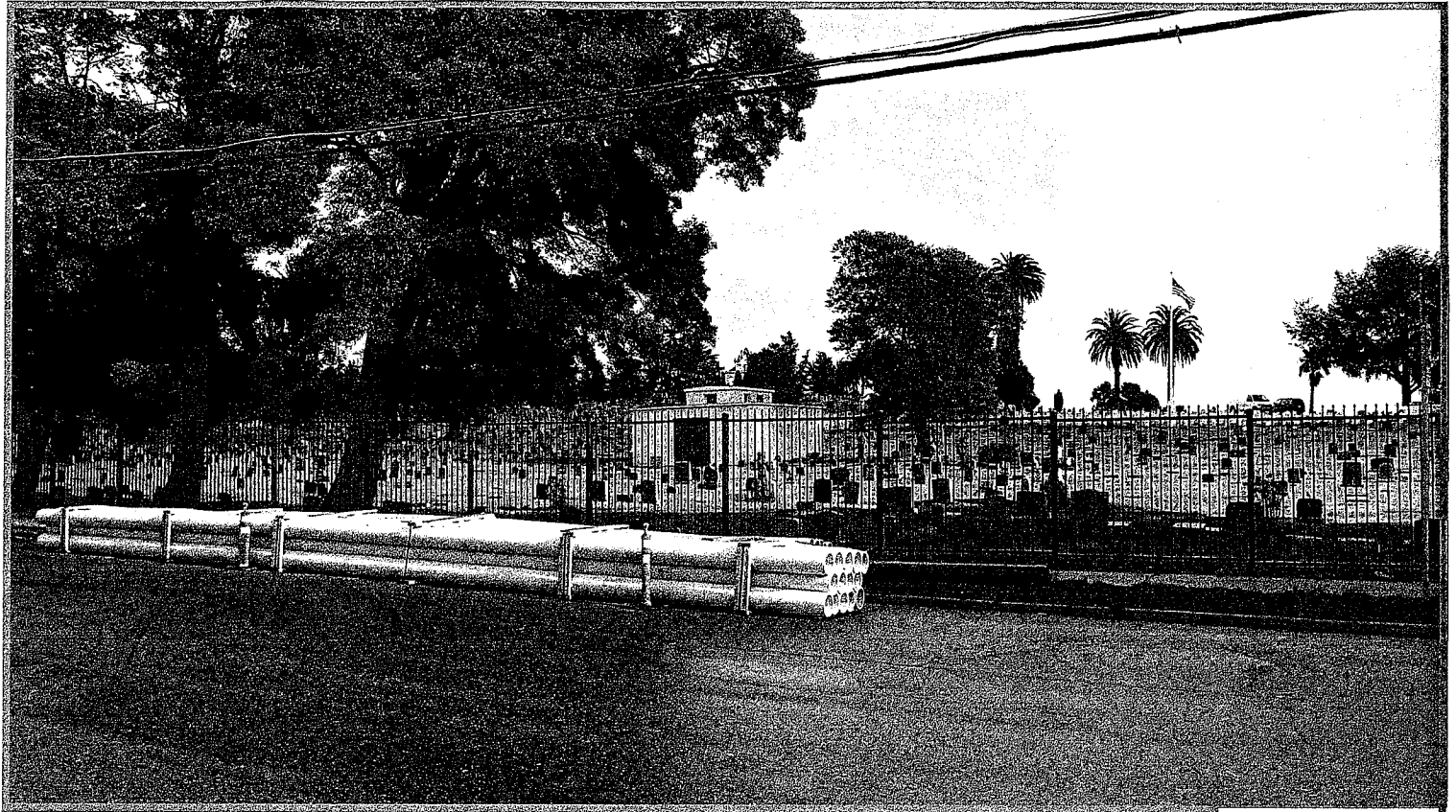




EXISTING

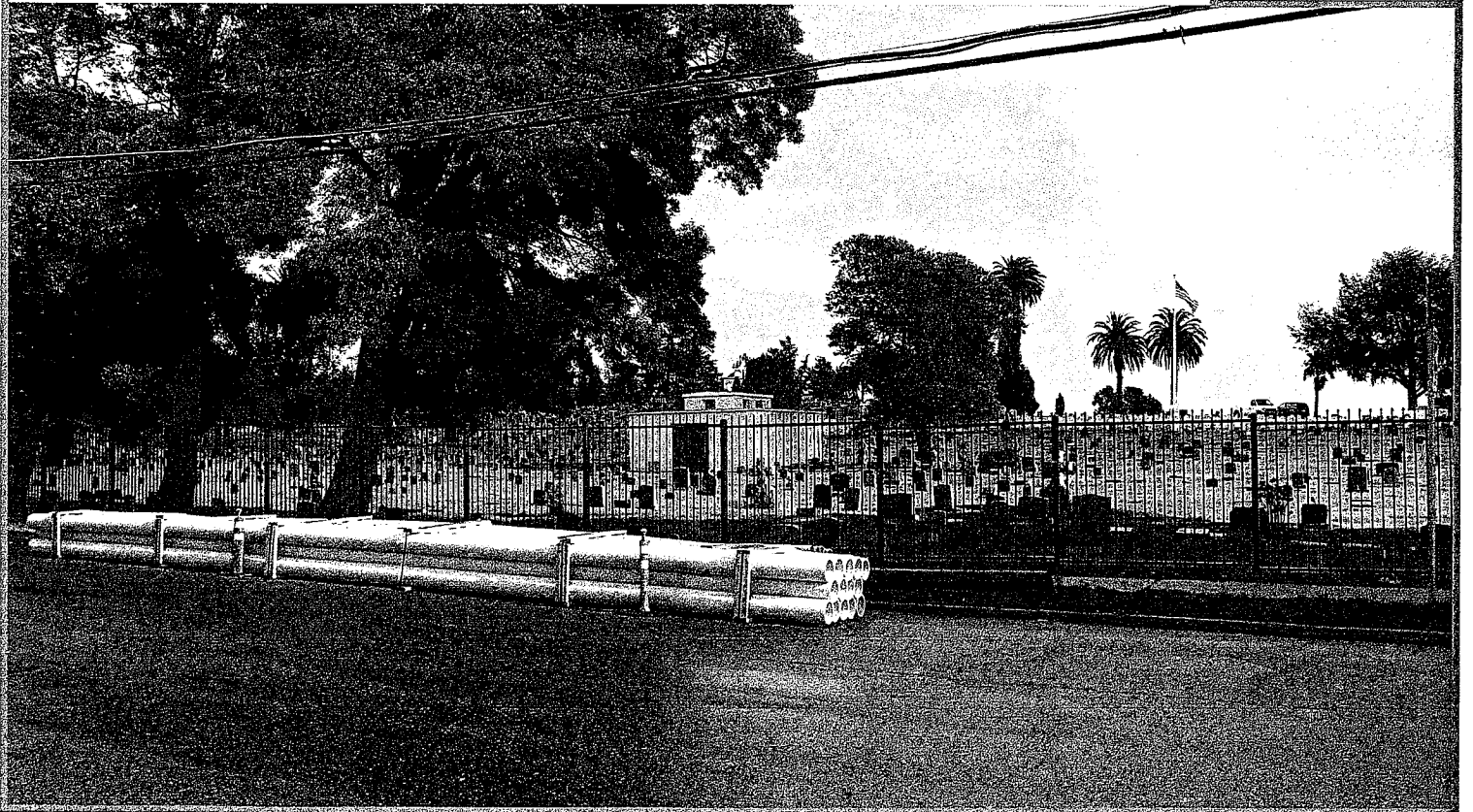
Proposed modification cannot be seen facing east from Brann Street





EXISTING

Proposed modification cannot be seen facing east from 64 Ave



**CYPRESS
LAB**

350 Wayne Place #3
Oakland, CA 94606

www.thecypresslab.com
info@thecypresslab.com

View 6 of 6

Sprint



SF35XC001
6450 Camden Street
Oakland, CA 94605



Views 1-6

**CYPRESS
LAB**

350 Wayne Place #3
Oakland, CA 94606

www.thecypresslab.com
info@thecypresslab.com

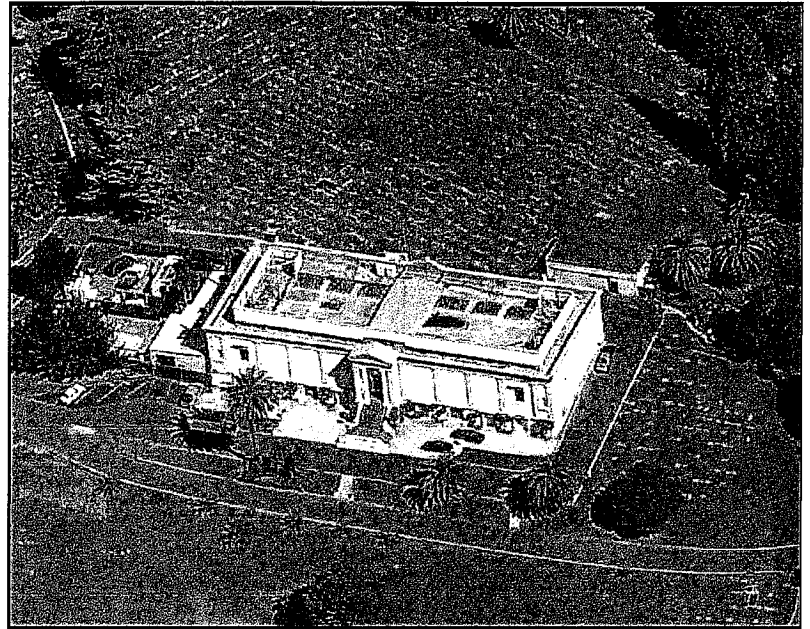
View Chart

Sprint 

SF35XC001
6450 Camden Street
Oakland, CA 94605

Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report

Prepared for:
Sprint Nextel
c/o Black & Veatch Corporation
2999 Oak Rd. Suite 910
Walnut Creek, CA 94597



Site No. SF35XC001
The Seminary
6450 Camden Street
Oakland, California 94605
Alameda County
37.771401; -122.178148 NAD83
Rooftop

EBI Project No. 62122821
July 28, 2012



EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Sprint Nextel to conduct radio frequency electromagnetic (RF-EME) modeling for Sprint Site SF35XC001 located at 6450 Camden Street in Oakland, California to determine RF-EME exposure levels from existing and proposed Sprint wireless communications equipment at this site. As described in greater detail in Section 11.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains a detailed summary of the RF EME analysis for the site.

This document addresses the compliance of Sprint's proposed transmitting facilities independently and in relation to all collocated facilities at the site.

1.0 LOCATION OF ALL EXISTING ANTENNAS AND FACILITIES AND EXISTING RF LEVELS

This project involves the removal of six (6) existing antennas and replacement with three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 6450 Camden Street in Oakland, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antenna that may be re-installed per sector.

Based on drawings and aerial photography review, Nextel and T-Mobile also have wireless antennas on the rooftop. These antennas were included in the modeling analysis.

2.0 LOCATION OR ALL APPROVED (BUT NOT INSTALLED) ANTENNAS AND FACILITIES AND EXPECTED RF LEVELS FROM THE APPROVED FACILITIES

There are no antennas or facilities that are approved and not installed based on information provided to EBI and Sprint at the time of this report.

3.0 NUMBER AND TYPES OF WTS WITHIN 100 FEET OF THE PROPOSED SITE AND ESTIMATES OF CUMULATIVE EMR EMISSIONS AT THE PROPOSED SITE

With the exception of the antennas mentioned in Section 1.0, there are no other Wireless Telecommunication Service (WTS) sites observed within 100 feet of the proposed site.

4.0 LOCATION AND NUMBER OF THE SPRINT ANTENNAS AND BACK-UP FACILITIES PER BUILDING AND NUMBER AND LOCATION OF OTHER TELECOMMUNICATION FACILITIES ON THE PROPERTY

Sprint proposes the removal of six (6) existing antennas and replacement with three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 6450 Camden Street in Oakland, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antenna that may be re-installed per sector. In each sector, there is proposed to be one antenna transmitting in the 800 MHz and the 1900 MHz frequency ranges. The Sector A antenna will be oriented 310° from true north. The Sector B antenna will be oriented 85° from true north. The Sector C antenna will be oriented 180° from true north. The bottoms of the antennas will be 6.8 feet above the main roof level.

Based on drawings and aerial photography review, Nextel and T-Mobile also have wireless antennas on the rooftop. These antennas were included in the modeling analysis.

5.0 POWER RATING FOR ALL EXISTING AND PROPOSED BACKUP EQUIPMENT SUBJECT TO THE APPLICATION

The operating power for modeling purposes was assumed to be 20 Watts per transmitter for the 800 MHz antenna and there will be one (1) transmitter operating at this frequency. Additionally, for modeling purposes it was assumed to be 20 Watts per transmitter and seven (7) transmitters operating at the 1900 MHz frequency.

6.0 TOTAL NUMBER OF WATTS PER INSTALLATION AND THE TOTAL NUMBER OF WATTS FOR ALL INSTALLATIONS ON THE BUILDING

The effective radiated power (ERP) for the 800 MHz transmitters combined on-site is 582 Watts. The ERP for the 1900 MHz transmitters combined on-site is 7,068 Watts. The ERPs for other carriers on-site was not provided.

7.0 PREFERRED METHOD OF ATTACHMENT OF PROPOSED ANTENNA WITH PLOT OR ROOF PLAN INCLUDING: DIRECTIONALITY OF ANTENNAS, HEIGHT OF ANTENNAS ABOVE NEAREST WALKING SURFACE, DISCUSS NEARBY INHABITED BUILDINGS

Based on the information provided to EBI, the information indicates that the proposed antennas are to be pipe-mounted to existing antenna tripods on the rooftop and operating in the directions, frequencies, and heights mentioned in section 4.0 above. The antennas are located on a seminary that is surrounded by a large cemetery. The surrounding area appears to consist primarily of residential properties with the nearest building approximately 200 feet to the east.

8.0 ESTIMATED AMBIENT RADIO FREQUENCY FIELDS FOR THE PROPOSED SITE

Based on worst-case predictive modeling, there are predicted areas on accessible rooftop-level walking/working surfaces related to the proposed Sprint antennas that exceed the FCC's general public exposure limit at this site. At the nearest walking/working surfaces to the proposed Sprint antennas, the maximum power density is 188.80 percent of the FCC's general public limit (37.76 percent of the FCC's occupational limit). The composite exposure level from all other carriers existing on this site combined with Sprint's proposed antennas is 192.00 percent of the FCC's general public limit (38.40 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna. 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 at this site. At ground level, the maximum power density generated by the Sprint antennas combined with the existing other carriers' antennas on-site is 6.90 percent of the FCC's general public limit (1.38 percent of the FCC's occupational limit). The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix B.

There are no modeled areas on the rooftop that exceed the FCC's limits for general public or occupational exposure in front of the other carrier antennas.

9.0 SIGNAGE AT THE FACILITY IDENTIFYING ALL WTS EQUIPMENT AND SAFETY PRECAUTIONS FOR PEOPLE NEARING THE EQUIPMENT AS MAY BE REQUIRED BY THE APPLICABLE FCC ADOPTED STANDARDS (DISCUSS SIGNAGE FOR THOSE WHO SPEAK LANGUAGES OTHER THAN ENGLISH)

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. It is recommended that additional signage be installed for the new antennas making people aware of the antennas locations. There are fields in front of the proposed Sprint antennas and therefore barriers are recommended.

Additionally, there are areas where workers elevated above the rooftop may be exposed to power densities greater than the general population and occupational limits. Workers and the general public should be informed about the presence and locations of antennas and their associated fields.

Access to this site is unknown. To be conservative, it is assumed that the general public is able to access the rooftop.

10.0 STATEMENT ON WHO PRODUCED THIS REPORT AND QUALIFICATIONS

Please see the certifications attached in Appendix A below.

11.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

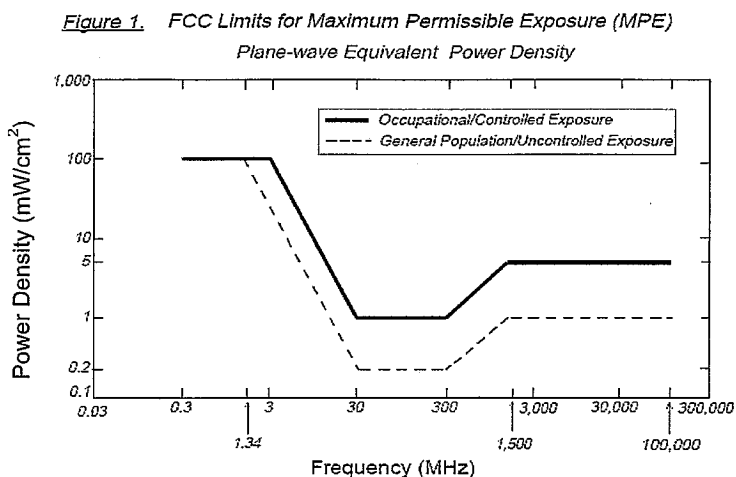
The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Sprint equipment operating at 800 MHz, the FCC's occupational MPE is 2.66 mW/cm² and an uncontrolled MPE of 0.53 mW/cm². These limits are considered protective of these populations.

Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6

(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time [E]², [H]², or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Sprint in this area operate within a frequency range of 800-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky.

This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

12.0 LIMITATIONS

This report was prepared for the use of Sprint Nextel. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

13.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed Sprint telecommunications equipment at the site located at 6450 Camden Street in Oakland, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from Sprint antennas and the other carriers' existing antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements. As presented in the preceding sections, based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 2 feet of Sprint's proposed antennas at the main roof level. Modeling also indicates that the worst-case emitted power density will not exceed the FCC's occupational limit at the main roof level.

Signage is recommended at the site as presented in Section 9.0. Posting of the signage and installation of the recommended barriers brings the site into compliance with FCC rules and regulations.

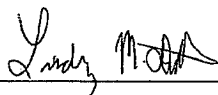
Appendix A

Certifications

Preparer Certification

I, Lindsey Dutton, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



Appendix B

Roofview® Export File

Roof Max Y	Roof Max X	Map Max Y	Map Max X	Y Offset	X Offset	Number of envelope
200	200	220	220	10	10	1 \$U\$41:\$FY

Sym	Map Mark	Roof X	Roof Y	Map Label	Description (notes for this table only)
Sym		5	35	AC Unit	Sample symbols
Sym		14	5	Roof Access	
Sym		45	5	AC Unit	
Sym		45	20	Ladder	