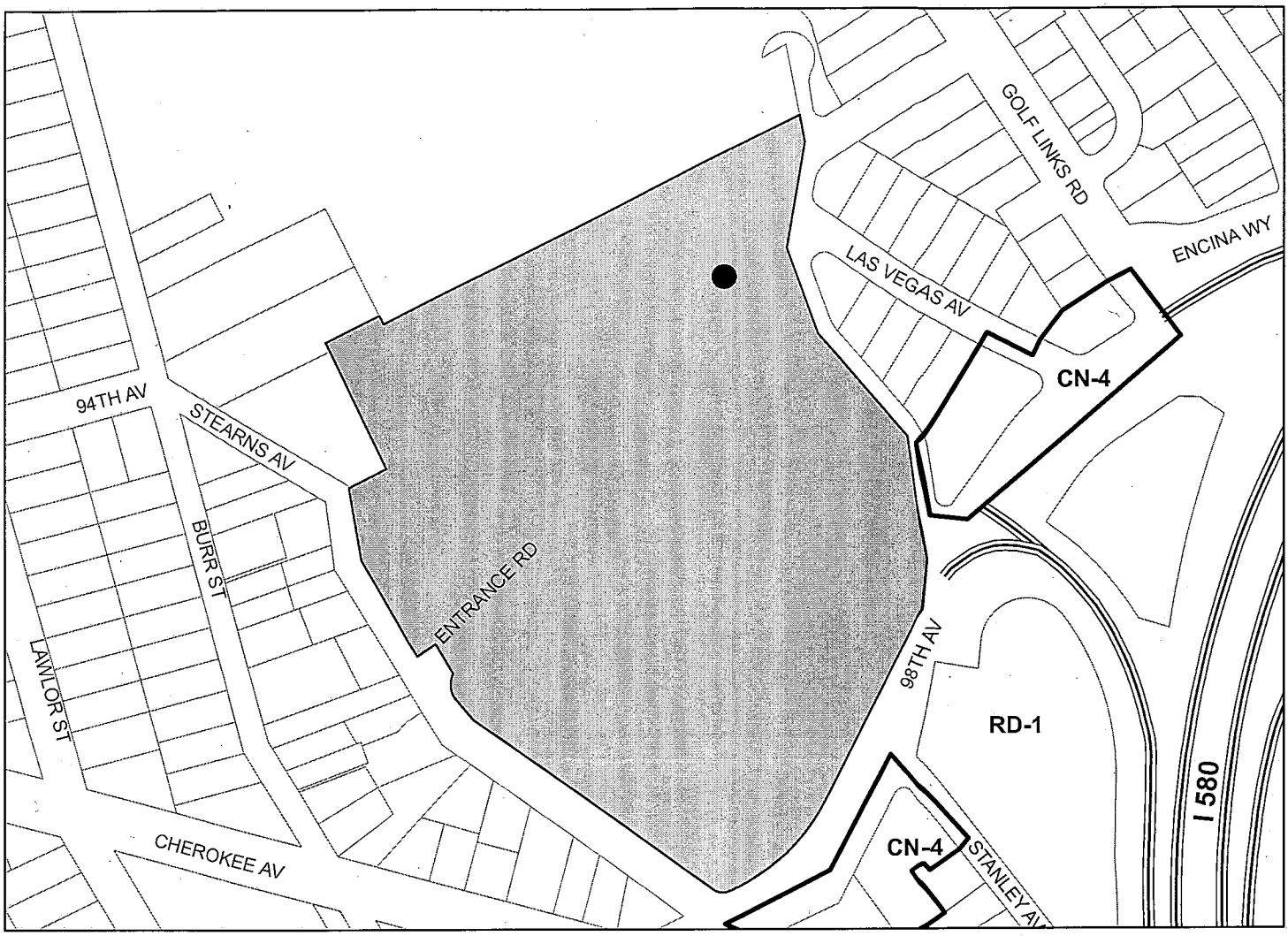
Location:	**9500 Stearns Avenue (at two locations on the Bishop O'Dowd campus)**
Assessor's Parcel Number:	**Adjacent to 043A-4755-001-16**
Proposal:	To install a total of six (6) antennas (6 panel antennas and 4 RRU units, existing antennas to be removed and replaced, or relocated) located at two separate roof top locations (with new screening parapet walls). The macro-telecommunication facility will include previously existing ground level equipment shelter and new trenched conduit and equipment.
Contact Person/ Phone Number:	Matt Yergovich / AT & T Mobility (415)596-3474
Owner:	Roman Catholic Welfare Corporation
Planning Permits Required:	Major Conditional Use Permit and Regular Design Review for macro-telecommunication facilities in a residential zone.
General Plan:	Institutional
Zoning:	RD-1
Environmental Determination:	Exempt, Section 15301(e) of the State CEQA Guidelines: Existing Facilities (Additions to existing structures); Section 15183 of the State CEQA Guidelines: Projects consistent with a community plan, general plan or zoning
Historic Status:	Potential Designated Historic Property Survey Ratings: F3c
Service Delivery District:	6
City Council District:	7
Date Filed:	September 1, 2011
Staff Recommendation:	Approve with the attached conditions
Finality of Decision:	*Appealable to City Council within 10 days*
For Further Information:	Contact case planner **Moe Hackett, Planner II** at **(510) 238-3973** or mhackett@oaklandnet.com

SUMMARY

The applicant Matt Yergovich / AT & T Mobility, requests Planning Commission approval of a Major Conditional Use Permit and Regular Design Review to expand an existing Macro Telecommunications Facility located at two separate locations on the Bishop O'Dowd campus. The project would involve a total of six (6) antennas (Existing antennas to be removed and replaced, or relocated) and 4 Radio Remote Units (RRU's). All antennas existing and proposed will be located behind new rooftop screening elements designed to resemble extended parapets. The antennas will be connected by rooftop and underground coaxial cable to an existing screened ground level equipment shelter. The request requires Planning Commission review, pursuant to the Planning Code, as it involves the expansion of a Telecommunications Facility located within a Residential Zone.

Staff recommends approval of the requested permits, subject to the attached Findings and Conditions of Approval.

CITY OF OAKLAND PLANNING COMMISSION



Case File: CMD11-172
Applicant: Matt Yergovich / AT&T Mobility
Address: 9500 Stearns Avenue (at Bishop O'Dowd High School)
Zone: RD-1

SITE DESCRIPTION

The existing school campus is located in a developed area of the City of Oakland, containing a mix of residential uses and resource conservation areas. The project site is located on the eastern most outer edge of the campus. Site A (Sector A) is facing east out of the campus toward the dead end turn out of Las Vegas Avenue (approximately 200 feet away across a steep ravine). Site B (Sector B) is facing south over looking an existing on site parking lot above 73rd Avenue (approximately 400 feet away and down slope). Neither location represents a prominent vista.

PROJECT DESCRIPTION

The proposal would involve replacing, relocating and establishing new antennas and RRU's at existing locations on the roof tops of two separate campus buildings. The new antenna locations would be concealed behind new screening elements designed to resemble the parapet walls. The new screening elements will rise above the existing plate wall edges and span the entire length of the proposed antenna placements. Two of the proposed antennas are designed to be "future AT &T antennas ". The proposed screening and advanced pre-approval of these antennas will reduce the possibility of additional visual impacts and allow for the continued "stealthing" of the facilities appearance as seen from both near and far away. These changes would not represent any appreciable change to the exterior appearance of the existing building as seen from the nearest surrounding vistas.

GENERAL PLAN ANALYSIS

The project site is located within a Detached Unit Residential area under the General Plan's Land Use & Transportation Element (LUTE) adopted 1998. The Conformity Guidelines are silent on Telecommunications Facilities. The 'Intent' of the area is: *"to create, maintain, and enhance areas with detached single unit structures"* and the 'Desired Character and Uses' is that *"remain residential in character."* The project would meet these descriptions: the changes at the site, located at a church and school within a residential district would increase telecommunications service at an ideal hilltop location. Features would be camouflaged or concealed and the proposal is backed by a satisfactory emissions report.

ZONING ANALYSIS

The proposed integrated rooftop screening elements and telecommunication facility is consistent with the provisions of a Macro facility and can support the new wireless antenna additions. New or expanded Telecommunications Facilities located within 300 feet from a Residential Zone require Planning Commission review. The project site is located within the RD-1 Detached Unit Residential Zone and the roof mounted facilities are fully concealed from view. The proposal would minimally alter the existing appearance of the two subject structures or the campus overall. The matching of color will camouflage the new and existing facilities as viewed against a back-drop of the entire very large campus and as seen from surrounding hill sides. The proposed expansion within the existing equipment shelter would not be visible from the public right of way. The project contains a satisfactory emissions report, which is consistent with the required Findings for approval. The project would improve telecommunications to residents and freeway users without being located directly adjacent to residential structures within a residential zone.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines categorically exempts specific types of projects from environmental review. Section 15301(e) of the State CEQA Guidelines exempts project

involving additions to existing facilities or structures. The proposal to attach, remove and replace antennas and RRU's (for a total of 6 antennas affected) behind a new rooftop screening device with an existing screened ground level equipment shelter located on a remote portion of the school campus meets this description: the project would constitute a minor addition only. The project is therefore exempt from Environmental Review.

KEY ISSUES AND IMPACTS

In addition to ensuring this type of request meets required legal findings, proposed wireless telecommunications facilities must meet specific development standards, and site location and design preferences, and possesses a satisfactory radio frequency emissions report.

Following are the standards met by this proposal from these areas of consideration:

Site Location Preferences (OMC Sec. 17.128.110)
The proposal adheres to the following Site Location Preferences:
A. Co-located on an existing structure or facility with existing wireless antennas.
E. Other non-residential uses in residential zones.
Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis.

The 12 (total) _new relocated antennas would be collocated on rooftop behinds screening devices on a parochial school campus hosting various wireless carriers.

Site Design Preferences (OMC Sec. 17.128.120)
The proposal adheres to the following Site Design Preferences:
C. Building or structure mounted antennas below roof line (façade 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.
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 such higher preference design alternative cannot 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).

The new antennas would be located on an existing roof tops behind new screening. The site would normally require a site design alternative analysis because the new antennas would not be concealed from view from the public right-of-way. However, due to the fact that the site is a collocation site with existing unscreened antennas on existing building, and the request merely features the relocation and replacement of the antennas (and 4 new RRU's) with the addition of improved screening elements, staff has determined that the requirement of the applicant to provide this study would not apply.

Radio Frequency Emissions Standards (OMC Sec. 17.128.130)
The proposal adheres to the following requirement that safe emissions levels be demonstrated prior to and during operation of the facility:
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 has submitted a satisfactory emissions report.

CONCLUSION

The proposed project has been designed to reduce the visual impacts of the existing Macro Facility. Therefore, staff recommends approval of the requested Major Conditional Use Permit and Regular Design Review to allow the expansion of an existing Macro facility.

RECOMMENDATIONS:
1. Affirm staff's environmental determination for exemption.
2. Approve the Major Conditional Use Permit and the Regular Design Review subject to the attached Findings and Conditions.

Prepared by:

Moe Hackett
Planner II

Approved by:

SCOTT MILLER
Zoning Manager

Approved for forwarding to the
City Planning Commission:

ERIC ANGSTADT
Director
Planning, Building, and Neighborhood Preservation

ATTACHMENTS:

A. Findings for Approval
B. Conditions of Approval
C. Plans & Antenna Details
D. Applicant's Site Photo-Simulations
E. Radio Frequency Analysis

Attachment A: Findings for Approval

This proposal meets the required findings under Section 17.134.050, General Use Permit Criteria; Section 17.128.070(C), Conditional Use Permit Criteria for Macro Facilities; Section 17.136.070(C), Regular Design Review; and Section 17.128.070(B), as set forth below. Required findings are shown in bold type; explanations as to why these findings can be made are in normal type.

SECTION 17.134.050 – GENERAL USE PERMIT CRITERIA:

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 proposal involves the expansion of a wireless telecommunications macro facility located on the parapets of two building on the bishop O'Dowd campus within a residential zone. Specifically, it would provide for relocated or replacement antennas and add four remote radio unit (RRU's) at a new location on the roof tops of two separate buildings , and including new camouflaging screening devices (parapet walls). The existing antennas are not camouflaged and are visible from within the campus compound and some surrounding vistas. The proposal would result in a total of 6 affected or proposed antennas (and RRU's), create new concealed equipment (within an existing shelter at ground level), and add new screening devises designed to look like parapet walls. The project will be compatible with the neighborhood: it meets special findings and will not pose a hazard to the public.

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 expansion/ collocation of a wireless telecommunications facility in a residential zone, at a location surrounding by a parking lot, trees, and open space and in the vicinity of a freeway would increase service without generating negative aesthetic impacts to the area. The inclusion of camouflaging parapet screens will lessen the impacts of the existing and proposed facilities.

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 expansion / collocation of a wireless telecommunications site will increase service for residents, civic use patrons, and visitors.

D. That the proposal conforms to all applicable design review criteria set forth in the design review procedure at Section 17.136.070.

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

E. That the proposal conforms in all significant respects with the Oakland Comprehensive Plan

and with any other applicable plan or development control map which has been adopted by the City Council.

The project is consistent with the following Policy of the Oakland General Plan's Land Use & Transportation Element (adopted 1998):

> ***Policy N1.5 Designing Commercial Development***
> *Commercial development should be designed in a manner that is sensitive to surrounding residential uses.*

The proposal to expand a wireless telecommunications facility at a civic site located within a Residential Zone by attaching/ collocating 6 antennas and associated equipment will not create functional issues for the area and the project possesses a satisfactory emissions report.

SECTION 17.128.070(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 meet the special design review criteria listed in subsection B of this section.

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

2. The proposed project must not disrupt the overall community character.

The replacement or relocation of 6 antennas (and the 4 new smaller RRU Units) will not alter or disrupt the current overall character of the community.

3. In the R-1 through R-60, inclusive, the project must not have any visual impact.

Due primarily to the site topography, dense surrounding vegetation , isolated location on the outermost edge of the campus, and stealthy design of the antennas and mountings (including an architecturally well integrated design and matching colored paint) this proposal offers little new visual impacts as proposed.

SECTION 17.136.050 (B), 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 appearances shall be considered, Taken together with other facilities in the immediate area, the proposal will achieve a group of facilities which are well related in terms of sitting, scale, bulk, massing, and materials.**

The proposed telecommunication antennas will be located on the rooftops of two existing campus structures. The entire facility is located near the top a ridge line overlooking parts of east Oakland near the Warren Freeway (Highway 13). The facility will be concealed from view by new screening walls designed to look like the parapet walls of the existing buildings. The proposed facilities will be sited on the outermost eastern edge of the campus and will not face any prominent vista. Due to the screening walls the antennas will be better concealed and present less of an impact that the existing unscreened antennas. The proposal will utilize the existing screen ground level equipment shelter located in between the two buildings at an on-site location. The proposal will not have a significant effect on the visual character of the appearances of the Toler Heights districts or the surrounding area.

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 proposal will enhance the surrounding by improving general, specific, and essential communication services. The proposed collocated facilities will not significantly alter the surrounding areas appearance and will in fact; improve the aesthetics of the campus as seen from some near by location on and off the campus. The proposed services will be available to local police, fire and public safety organizations and general public.

3. **That the proposed design conforms in all significant respects with the Oakland Comprehensive Plan and with any applicable district plan or development control map which has been adopted by the City Council.**

The proposed telecommunication wireless facilities will enhance services to the Toler Heights districts, and the surrounding area. As noted in the previous Findings it will enhance local services, and is consistent with the Detached Unit Residential General Plan designation. The proposal is not in conflict with any other applicable plan or development control maps adopted by the City Council.

17.128.070 (B), DESIGN REVIEW CRITERIA FOR MACRO FACILITIES :

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

The AT & T Mobility proposes to install or relocate six (6) individual wireless antennas (and new RRU's) that will be screened, painted, and or textured to match the structures and facilities to which they will be mounted to minimize visual impacts. The antennas will be collocated behind new screening parapet walls on existing rooftops. The entire facility would be to match the existing campus buildings.

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

The proposed antennae panels and RRU's will be placed on existing building. The associated equipment cabinets will be located within an existing structure and will not alter the exterior appearance. The antennas would be screened by new parapet walls would be painted to fade into the existing building when viewed from the surrounding area.

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

   The antennas would be sited on existing buildings and would be screened to fade into the surrounding hillside when viewed from the surrounding area. The proposed macro facility represents a vast improvement over the existing unscreened telecom facilities at this location.

4. **Equipment shelters or cabinets shall be screened from the 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 shelter is located within an existing shelter that is located between the two campus structures.

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

   See finding #4 (above).
   The proposal calls for no alterations to an existing equipment shelter

6. **For antennas attached to the roof, maintain a 1:1 ratio (example: ten feet high antenna requires ten feet setback from façade) for equipment setback unless an alternative placement would reduce visual impact; treat or screen the antennas to match existing air conditioning units, stairs, elevator towers, or other background; avoid placing roof mounted antennas in direct line with significant view corridors.**

   The proposed antennas will be made part of a new parapet 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 proposed antennas will not be accessible to the public. The equipment is located within a nearby building and will not be accessible to the general public.

Attachment B: Conditions of Approval

1. **Approved Use**

Ongoing

a) The project shall be constructed and operated in accordance with the authorized use as described in the application materials, staff report , and the plans dated January 23, 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.

To co-locate a total of 6 replacement or relocated panel antennas and 4 new remote radio unit (RRU's) on an existing rooftop behind a screening parapet wall with a ground level equipment enclosure as a Macro Telecommunications Facility site.

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 **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 laws/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. Compliance with other applicable requirements may require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition of Approval 3.

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. The project applicant shall be responsible for paying fees in accordance with the City's Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Conditions of Approval.

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 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 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 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.

SPECIFIC CONDITIONS

11. **Telecommunications Facility Removal Agreement ("Sinking Fund")**
    Prior to issuance of a building permit
    The applicant shall file a Telecommunications Facility Removal Agreement and bond with the City as is standard practice to ensure that the facility be removed from the site should it cease to be operated.

12. **Emissions Report**
    Prior to a final inspection
    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 that may be subsequently authorized to establish such standards.

13. **Parapet screening wall**
    Prior to a final inspection
    The parapet screening wall color shall be shown on plans. The paint shall be matched precisely to the building to which they are to be attached. The condition of all screening the walls and devices shall be maintained in good condition and partially or wholly repainted at the Zoning Managers discretion or request.

14. **Equipment Cabinet Shelter**
Prior to a final inspection
The equipment cabinet shelter shall be maintained in good condition and partially or wholly repainted (different colors) at the Zoning Managers discretion or request.

APPROVED BY:
City Planning Commission:_____(March 7, 2012)_____(vote)

at&t

E. SAN LEANDRO

CNU0194 / CCL00194

UMTS#: CNU0194
GSM#: SF0194
FA LOCATION#: 10087953
USID#: 12770

PROJECT DESCRIPTION

A MODIFICATION TO AN (E) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF ADDING, (4) (N) RRU'S, REMOVING & REPLACING (2) (E) AT&T ANTENNAS W/ (2) (N) LTE ANTENNAS, ADDING (2) (N) SURGE SUPPRESSOR'S, (4) (N) 6" CONDUITS & (2) (N) 3" CONDUITS. ADD (N) FRP SCREEN WALL TO (E) WOOD STRUCTURE @ SECTOR B, AND A (N) FRP SCREEN WALL @ SECTOR A.

PROJECT INFORMATION

SITE NAME:	E. SAN LEANDRO	SITE #:	CNU0194 / CCL00194
COUNTY:	ALEMEDA	JURISDICTION:	CITY OF OAKLAND
APN:	043A-4755-001-16	POWER:	PG&E
SITE ADDRESS:	9500 STEARNS AVE OAKLAND, CA 94605	TELEPHONE:	AT&T
CURRENT ZONING:	SCHOOL		
CONSTRUCTION TYPE:	IV-B		
OCCUPANCY TYPE:	UNMANNED COMMUNICATIONS FACILITY		
PROPERTY OWNER:	ROMAN CATHOLIC WELFARE CORP OF OAKLAND		
APPLICANT:	AT&T 4430 ROSEWOOD DR BLDG 3, 6TH FLOOR PLEASANTON, CA 94588		
LEASING CONTACT:	ATTN: MATTHEW YERGOVICH (415) 596-3474		
ZONING CONTACT:	ATTN: MATTHEW YERGOVICH (415) 596-3474		
CONSTRUCTION CONTACT:	ATTN: BRYAN HUNLEY (707) 363-3355 (925) 737-5800		
LATITUDE: LONGITUDE:	N 37° 45' 11.94" NAD 83 W 122° 09' 17.60" NAD 83		
AMSL:	±243'		

DESIGN CRITERIA

OCCUPANCY CATEGORY: II
WIND EXPOSURE: B
SEISMIC SITE CLASS: D

WIND IMPORTANCE FACTOR: 1.0
WIND VELOCITY: 85MPH
DESIGN CATEGORY: D

SEISMIC COMPONENT IMPORTANCE FACTOR: 1.0
MAXIMUM DESIGN PRESSURE: 23.62 PSF
S_{DS} 1.342 a_p: 1.0 R_p: 2.5

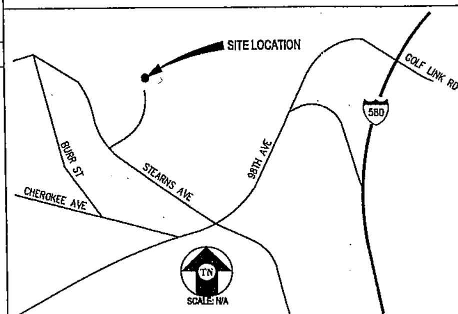
TESTS AND SPECIAL INSPECTIONS

PROVIDE COMPLETE TESTING AND INSPECTIONS IN ACCORDANCE WITH THE CBC, CHAPTER 17 AS NOTED BELOW:

1. POST INSTALLED ANCHORS IN ACCORDANCE WITH THE CURRENT ICC REPORTS FOR THE SPECIFIED ANCHORAGES.

ATTACHMENT C

VICINITY MAP



DRIVING DIRECTIONS

FROM: 4430 ROSEWOOD DR BLDG 3, 6TH FLOOR, PLEASANTON, CA 94588
TO: 9500 STEARNS AVE OAKLAND, CA 94605

1.	HEAD EAST ON ROSEWOOD DR	20 FT
2.	MAKE A U-TURN	0.5 MI
3.	TAKE THE 2ND RIGHT ONTO OWENS DR	0.1 MI
4.	TURN RIGHT AT HACIENDA DR	0.3 MI
5.	MERGE ONTO I-580 W VIA THE RAMP TO OAKLAND	17.3 MI
6.	TAKE THE GOLF LINKS RD EXIT TOWARD 98TH AVE	0.2 MI
7.	TURN LEFT AT GOLF LINKS RD	420 FT
8.	TAKE THE 1ST LEFT ONTO 98TH AVE	0.2 MI
9.	TAKE THE 2ND RIGHT ONTO STEARNS AVE DESTINATION WILL BE ON THE RIGHT	0.1 MI

END AT: 9500 STEARNS AVE OAKLAND, CA 94605

ESTIMATED TIME: 22 MINUTES ESTIMATED DISTANCE: 18 MILES

PREMISES ACCESS RESTRICTIONS:

BISHOP O'DOWD HIGH SCHOOL CAMPUS (BOD) IS AN ACCESS-RESTRICTED PROPERTY, AND CAN ONLY BE ACCESSIBLE FOR WORK TO OUTSIDE PERSONS UNDER SPECIFIC PROVISIONS. ALL NON-BOD-EMPLOYEE & NON-STUDENT/FAMILY PERSONNEL MUST BE ESCORTED ON CAMPUS DURING ALL WORK WHEN STUDENTS ARE PRESENT AND AT CERTAIN OTHER TIMES BASED ON A CHANGING CALENDAR OF ACTIVITIES, AND BOD HAS A LIMITED SUPPLY OF SPARE PERSONNEL FOR USE AS ESCORTS.
FOR THIS REASON IT IS IMPORTANT FOR ALL PERSONNEL OF AT&T AND ITS CONTRACTORS TO PROVIDE 24HR MIN. PRIOR NOTICE TO BOD VIA THE FACILITIES DIRECTOR FOR ANY INTENDED WORK ON SITE. THIS PRIOR NOTICE DOES NOT GUARANTEE ACCESS AT A SPECIFIC REQUESTED TIME, BUT WILL PROVIDE FOR MANAGEABLE MUTUAL SCHEDULING. SOME WORK MAY NEED TO BE SCHEDULED FOR WEEKEND DAYS OR AT OTHER TIMES.

PERSONS REQUESTING ACCESS SHALL FIRST NOTIFY CHARLTON BIRDEN WITH AT&T AT 510-645-4535 / CH5674@ATT.COM, THEN NOTIFY BOD IN WRITING VIA THE FACILITIES DIRECTOR, DAN MALMGREN AT DMALMGREN@BISHOPODOWD.ORG, WITH
1) DETAILS OF THE REQUIRED ACCESS TIMES,
2) NUMBER OF PERSONNEL,
3) SCOPE OF WORK TO BE ACCOMPLISHED AND
4) DESCRIPTION OF AREAS OF WORK.
BOD WILL ACCOMMODATE ALL REASONABLY NECESSARY ACCESS, BUT SCHEDULING ISSUES MAY OCCUR. LONGER LEAD TIMES WILL BETTER ASSURE REASONABLE ACCESS WHEN DESIRED.

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:

1. 2010 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
2. 2010 CALIFORNIA BUILDING CODE
3. 2010 CALIFORNIA ELECTRICAL CODE
4. 2010 CALIFORNIA MECHANICAL CODE
5. 2010 CALIFORNIA PLUMBING CODE
6. 2010 CALIFORNIA FIRE CODE
7. LOCAL BUILDING CODES
8. CITY/COUNTY ORDINANCES
9. ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

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 1134B.2.1, EXCEPTION 4

SHEET INDEX

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S-5	STRUCTURAL DETAILS	–
S-6	STRUCTURAL DETAILS	–

APPROVAL

RF
LEASING
ZONING
CONSTRUCTION
AT&T
ERICSSON

E. SAN LEANDRO

CNU0194 / CCL00194
9500 STEARNS AVE
OAKLAND, CA 94605

ISSUE STATUS

△	DATE	DESCRIPTION	BY
	08/04/10	CD 90%	JFK
	11/23/10	CD 100%	G.T.
	07/20/11	CLIENT REV	A.M.
	11/04/11	CLIENT REV	A.M.
	01/23/12	CLIENT REV	M.F.
	–	–	–

DRAWN BY:	C. SYLVESTER
CHECKED BY:	L. HOUGHTBY
APPROVED BY:	D. FIGUEROA
DATE:	01/23/12

Streamline Engineering and Design, Inc.
3268 Penryn Rd, Suite 200 Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

REGISTERED PROFESSIONAL ENGINEER
DANIEL FIGUEROA
NO. 79038
CIVIL
STATE OF CALIFORNIA

at&t

4430 ROSEWOOD DR BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
TITLE

SHEET NUMBER:
T-1

1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.

2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS NOTED OTHERWISE.

3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.

6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.

8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.

10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.

11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.

13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.

14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

15. CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.

16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.

17. CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL "CALL BEFORE YOU DIG" 811 NATIONWIDE UNDERGROUND SERVICE ALERT

NOTE: OCPC = ORANGE CORRUGATED PLASTIC CONDUIT

① INNERDUCT IN (E) U/G DUCT BANK.

② FIBER ACCESSIBLE IN (E) MANHOLE IN CRAWLSPACE BELOW FLOOR IN (E) A.V. ROOM IN OCPC.

③ FIBER IN OCPC LAID ON GRADE IN CRAWLSPACE BELOW FLOOR.

④ FIBER ROUTE ACCESS BY LOUVERED VENT BELOW FLOOR, EXT. WALL.

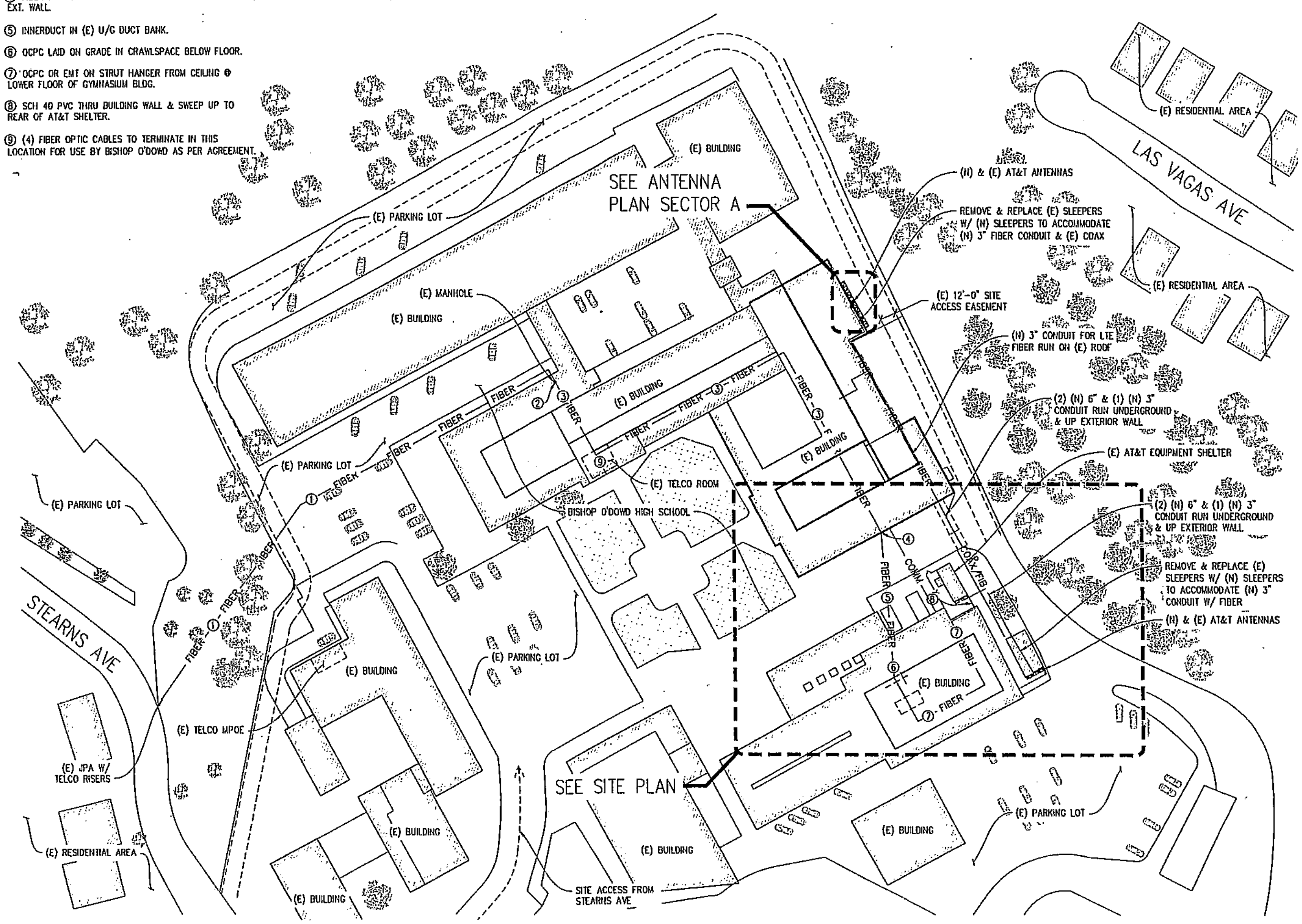
⑤ INNERDUCT IN (E) U/G DUCT BANK.

⑥ OCPC LAID ON GRADE IN CRAWLSPACE BELOW FLOOR.

⑦ OCPC OR EMT ON STRUT HANGER FROM CEILING @ LOWER FLOOR OF GYMNASIUM BLDG.

⑧ SCH 40 PVC THRU BUILDING WALL & SWEEP UP TO REAR OF AT&T SHELTER.

⑨ (4) FIBER OPTIC CABLES TO TERMINATE IN THIS LOCATION FOR USE BY BISHOP O'DOWD AS PER AGREEMENT.



OVERALL SITE PLAN

1"=40'-0"

0 20' 40' 80' 120' 200'

E. SAN LEANDRO

CNU0194 / CCL00194
9500 STEARNS AVE
OAKLAND, CA 94605

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	01/23/12	CLIENT REV	M.F.
	-	-	-

DRAWN BY:	C. SYLVESTER
CHECKED BY:	L. HOUGHTBY
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DATE:	01/23/12

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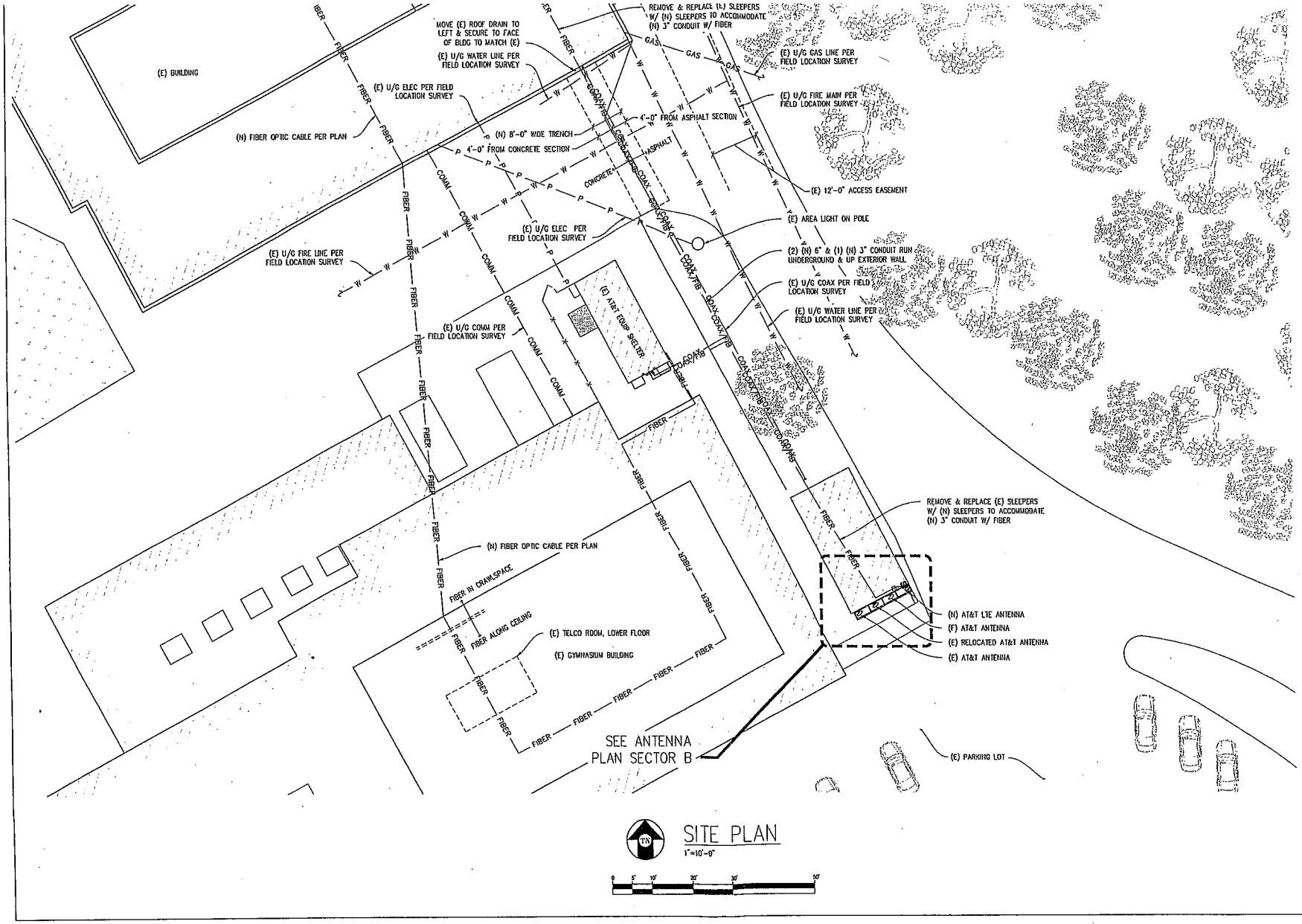
PLEASANTON, CA 94588

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1



SAN LEANDRO

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	-	-	-

DRAWN BY: C. SYLVESTER
CHECKED BY: L. HOUGHTBY
APPROVED BY: D. FIGUEROA
DATE: 01/23/12

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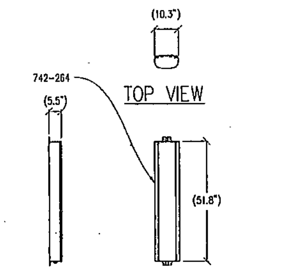
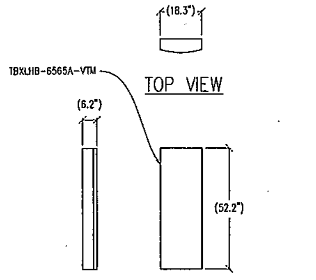
4430 ROSEWOOD DR BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
SITE PLAN

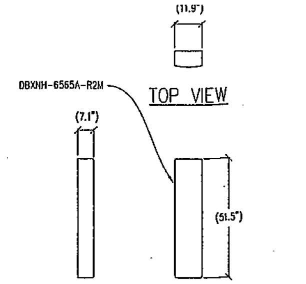
SHEET NUMBER:
A-2



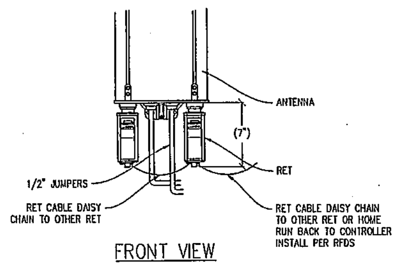
1 (E) ANTENNA DETAIL
½"=1'-0"



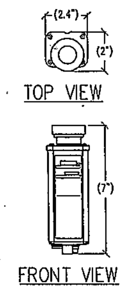
2 (E) ANTENNA DETAIL
½"=1'-0"



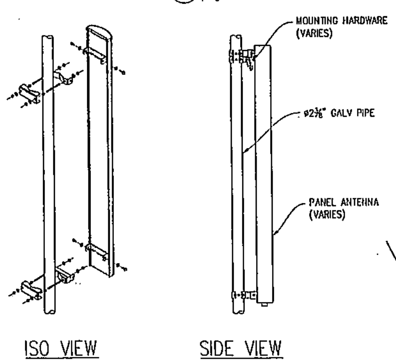
3 (N) ANTENNA DETAIL
½"=1'-0"



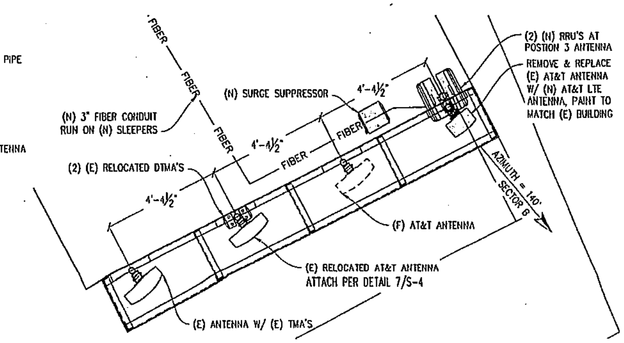
4 ANTENNA/RET CONFIGURATION
1"=6"



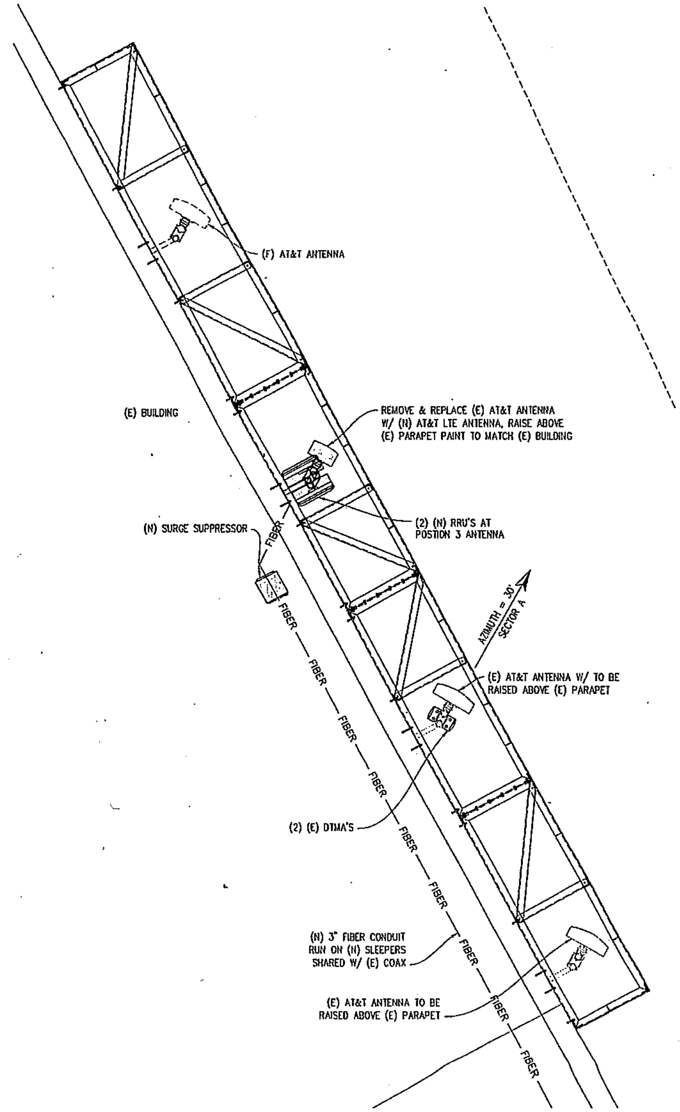
5 RET DETAIL
1"=3"



6 ANTENNA MOUNT DETAIL
1"=1'-0"



ANTENNA PLAN SECTOR B
½"=1'-0"



ANTENNA PLAN SECTOR A
½"=1'-0"

E. SAN LEANDRO

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	-	-	-

DRAWN BY:	C. SYLVESTER
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DATE:	01/23/12

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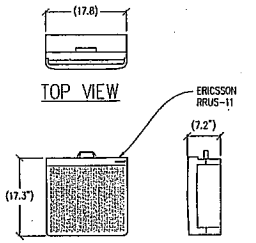
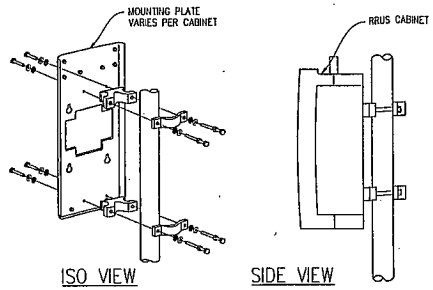
PLEASANTON, CA 94588

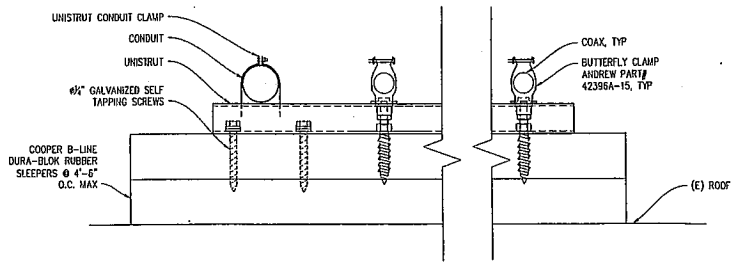
SHEET TITLE:
ANTENNA PLANS & DETAILS
SHEET NUMBER:
A-3



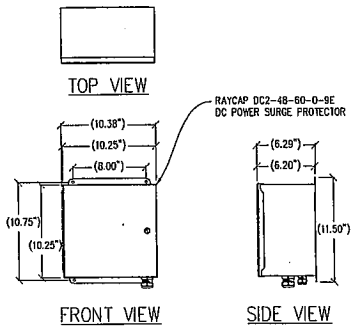
1 RRUS-11 DETAIL
1"=1'-0"



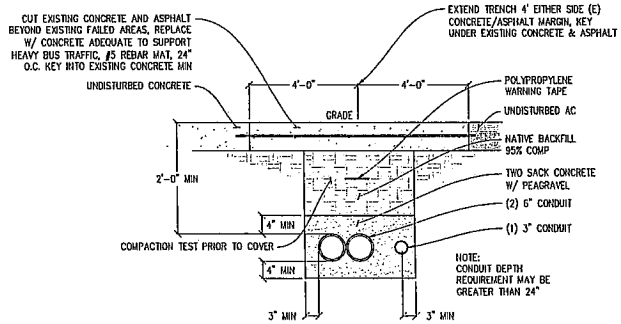
2 CABINET POLE MOUNTING DETAIL
1"=6"



3 CONDUIT MOUNTING DETAIL
1"=1'



4 DC SURGE SUPPRESSION DETAIL
1"=6"



5 CONDUIT TRENCH DETAIL
NOT TO SCALE

TRENCHING NOTES

1. PRIVATE LOCATION SERVICES REQUIRED, NATIONAL PUBLIC SERVICES NOT AVAILABLE ON CAMPUS. ALL UTILITIES LOCATED AND NOTED ON PLOT PLAN, MAJOR WATER AND ELECTRICAL IN THIS AREA.
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.
3. RESTORE GRADE TO ORIGINAL CONDITION OR BETTER.
4. RETURN FILL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM STANDARDS.
5. RESTORE CUT CONCRETE OR ASPHALT TO ORIGINAL CONDITION OR BETTER.

E. SAN LEANDRO

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OAKLAND, CA 94605

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DRAWN BY: C. SYLVESTER
CHECKED BY: L. HOUGHTBY
APPROVED BY: O. FIGUEROA
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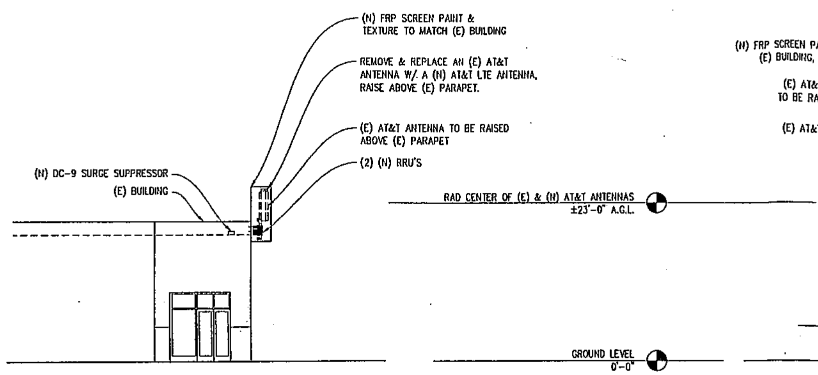
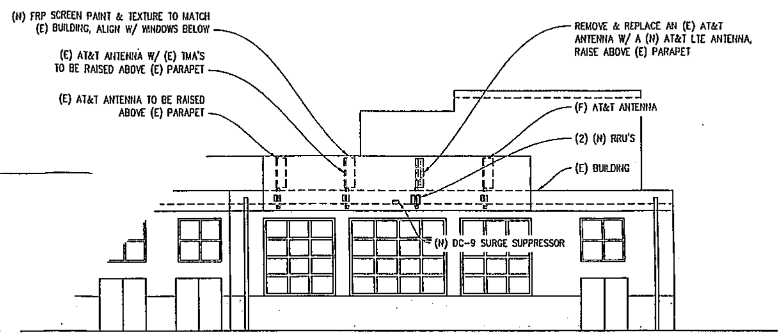
PLEASANTON, CA 94588

SHEET TITLE:
DETAILS

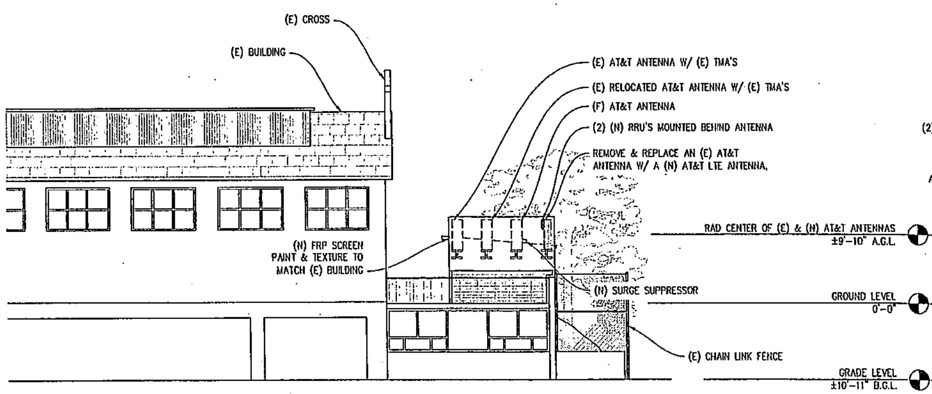
SHEET NUMBER:
A-4



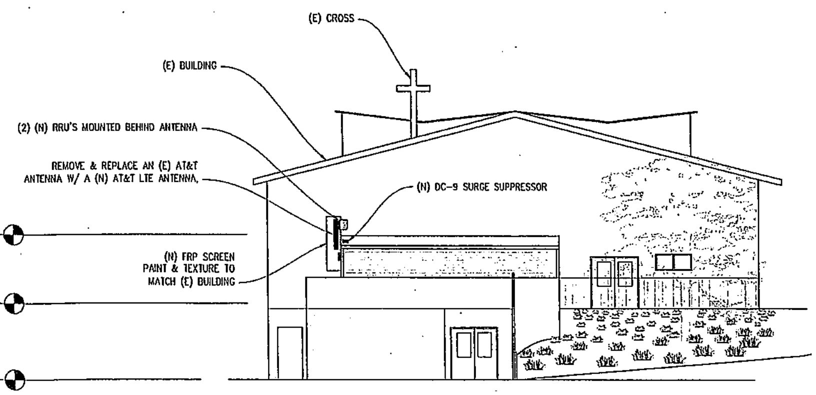
SOUTHEAST ELEVATION SECTOR A
⅛"=1'-0"



NORTHEAST ELEVATION SECTOR A
⅛"=1'-0"



SOUTHEAST ELEVATION SECTOR B
⅛"=1'-0"



NORTHEAST ELEVATION SECTOR B
⅛"=1'-0"

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at&t
4430 ROSEWOOD DR BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
ELEVATIONS

SHEET NUMBER:
A-5

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.

2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.

3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2010 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2010 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.

4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).

5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.

6. ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.

7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.

CONCRETE CORE/DRILLING NOTES

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING THEM INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).

3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)

4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.

5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-05. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.

3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.

5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.

6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.

7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".

9. MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.

10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.

11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.

12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.

13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.

14. ALL BOLTS & THREADED ROD SHALL BE ASTM A307 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.

15. A ¾" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.

16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.

17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

EXPANSION & EPOXY ANCHORS

1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2010 CALIFORNIA BUILDING CODE (CBC).

2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2006 IBC MINIMUM REQUIREMENTS. IN THE ICC REPORT

3. CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-1917 OR APPROVED EQUIVALENT.

4. CMU EXPANSION ANCHORS SHALL BE KWIK BOLT 3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-1385 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1⅜" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.

5. CONCRETE & GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500SD BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-2322 OR APPROVED EQUIVALENT.

6. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2010 CBC, CHAPTER 17, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.

7. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N.. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL U.O.N.

8. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.

9. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 10 BELOW FOR FREQUENCY OF INSPECTIONS.

10. 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 9 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES.

1. ALL JOINTS AND PENETRATIONS SHALL BE CAULKED AND SEALED.

2. ALL 2X OR 4X FRAMING LUMBER SHALL BE DOUGLAS FIR #2 OR BTR, 6X DOUGLAS FIR # 1 OR BTR UNLESS OTHERWISE NOTED.

3. ALL EXTERIOR USE LUMBER SHALL BE PRESSURE TREATED W/ FASTENERS HDG & METAL CONNECTORS G135 OR BETTER AS REQUIRED FOR CORROSION RESISTANCE TO THE PRESERVATIVE TYPE USED.

4. ALL STRUCTURAL CONNECTORS SHALL BE AS SPECIFIED OR AN EQUIVALENT.

5. NAILING SHALL CONFORM WITH THE REQUIREMENTS OF THE 2010 CBC UNLESS OTHERWISE NOTED. DRAWING SPECIFIC CALLOUTS SUPERCEDE CODE NAILING REQUIREMENTS

6. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".

7. HOLES FOR LAG SCREWS ø⅜" OR GREATER SHALL BE BORED AS FOLLOWS:
   a. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   b. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
   c. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. PROVIDE LIQUID SOAP AS REQUIRED TO LUBRICATE LAG SCREWS DURING INSTALLATION.

8. LAG SCREWS SHALL BE GALVANIZED ASTM A307 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

FRP NOTES

1. FRAMING MEMBERS IN FRONT OF ANTENNA HORIZONTAL BEAM WIDTH SHALL BE ASSEMBLED W/ FRP STRUCTURAL MEMBERS & FASTENERS ONLY.

2. FRP STRUCTURAL FRAMING MEMBERS ARE TO HAVE THE FOLLOWING MINIMUM DESIGN SPECIFICATIONS:

F_b LONGWISE FLEXURAL STRESS W/ F.S.=3.0	10 KSI
E MODULUS OF ELASTICITY	2600 KSI

3. FRP PANELS ARE TO HAVE THE FOLLOWING MINIMUM SPECIFICATIONS:

F_b CROSSWISE FLEXURAL STRESS W/ F.S.=3.0	5 KSI
CROSSWISE FLEXURAL MODULUS	1100 KSI

4. FRP BOLTING MINIMUM SINGLE SHEAR ALLOWABLE VALUES:
   ø¼" ⅝ NYLON BOLT; V=67# FS=3.0
   ø½" FRP THREADED ROD & NUT; V=650# FS=4.0
   ø⅝ FRP THREADED ROD & NUT; V=950# FS=4.0

5. PRIME & PAINT ALL FRP SURFACES W/ RF APPROVED PAINT SUITABLE FOR APPLICATION TO FRP

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2010 CBC.

2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_Y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_Y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_Y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.

3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.

4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.

5. BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.

6. THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL . BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

7. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.

8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.

9. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.

ROOFING & WATERPROOFING NOTES:

1. CONTRACTOR SHALL JOINTLY GUARANTEE THE FINISHED INSTALLATION AS WEATHER TIGHT AND FREE DRAINING ON COMPLETION DIRECTLY TO THE BUILDING OWNER & TO THE WIRELESS CARRIER FOR ALL WORK SHOWN HEREIN.
2. ALL WORK SHALL BE PERFORMED IN SUB-UNITS SUCH THAT CUT OPEN WEATHERPROOFING SYSTEMS ARE REPAIRED PERMANENTLY OR TEMORARILY IN DEFENSE OF ANY INCLEMENT WEATHER AS MAY OCCUR DURING CONSTRUCTION.
3. WHEREVER PENETRATION PROPRIETARY WEATHERPROOFING SYSTEMS, THE CONTRACTOR SHALL EMPLOY SUBCONTRACTORS APPROVED FOR APPLICATION OF SAID SYSTEM AND WITH MINIMUM OF 3 YEARS EXPERIENCE WITH THE APPLICABLE PRODUCT(S) AND ITS(THEIR) APPLICATION (e.g. DRY-VIT, GAKO-FLEX DECKING &/OR ROOFING, SINGLE-PLY ROOFING SYSTEMS (VARIOUS), ECT.).
4. WHERE APPLICABLE THE CONTRACTOR SHALL EMPLOY THE BUILDING OWNER'S ROOFING CONTRACTOR FOR ALL PATCHWORK.
5. CONTRACTOR IS RESPONSIBLE TO INVESTIGATE ALL WEATHERPROOFING REQUIREMENTS FOR THE WORK SHOWN HEREIN PRIOR TO SUBMITTING A BID, AND SHALL NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES IN DETAILS SHOWN THAT MAY RESULT IN SUBSTANDARD WEATHERPROOFING IN THE FINISHED ASSEMBLY.

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	11/04/11	CLIENT REV	A.M.
	01/23/12	CLIENT REV	M.F.
	-	-	-

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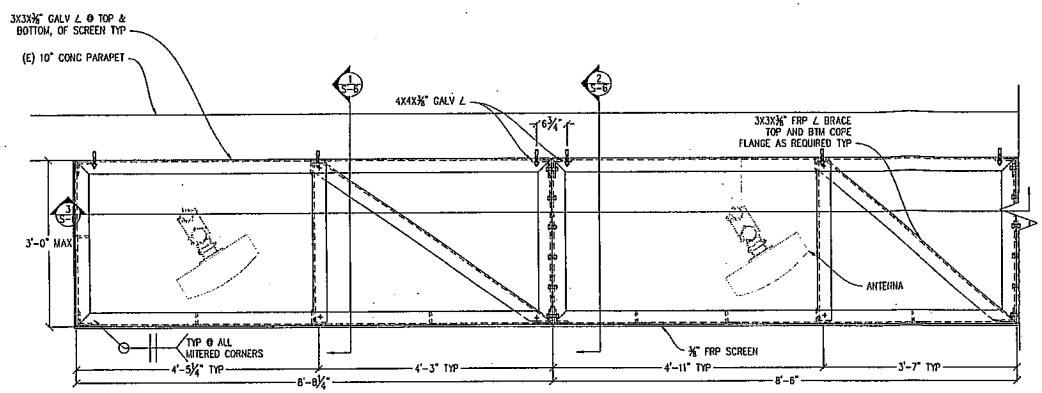
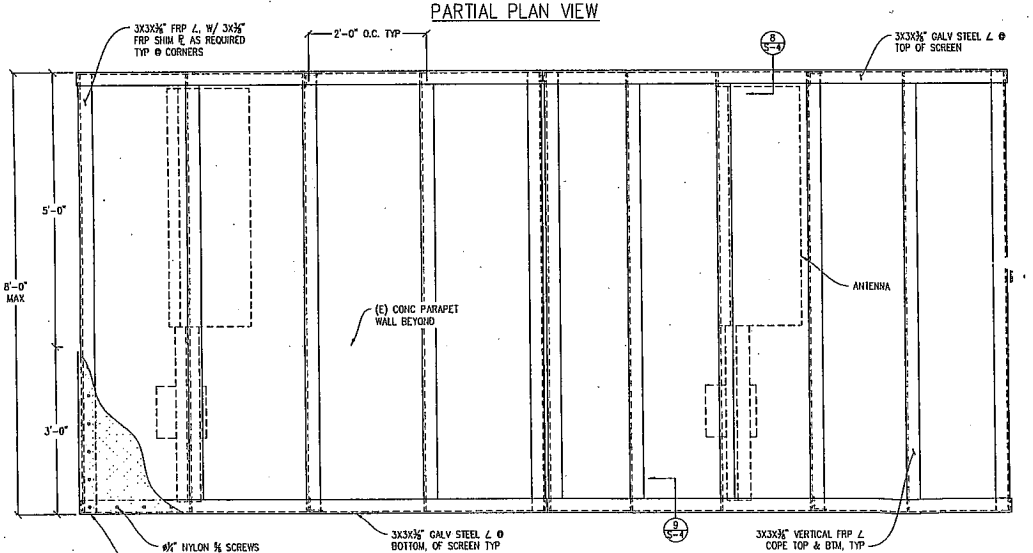
SHEET TITLE:
STRUCTURAL NOTES

SHEET NUMBER:
S-1



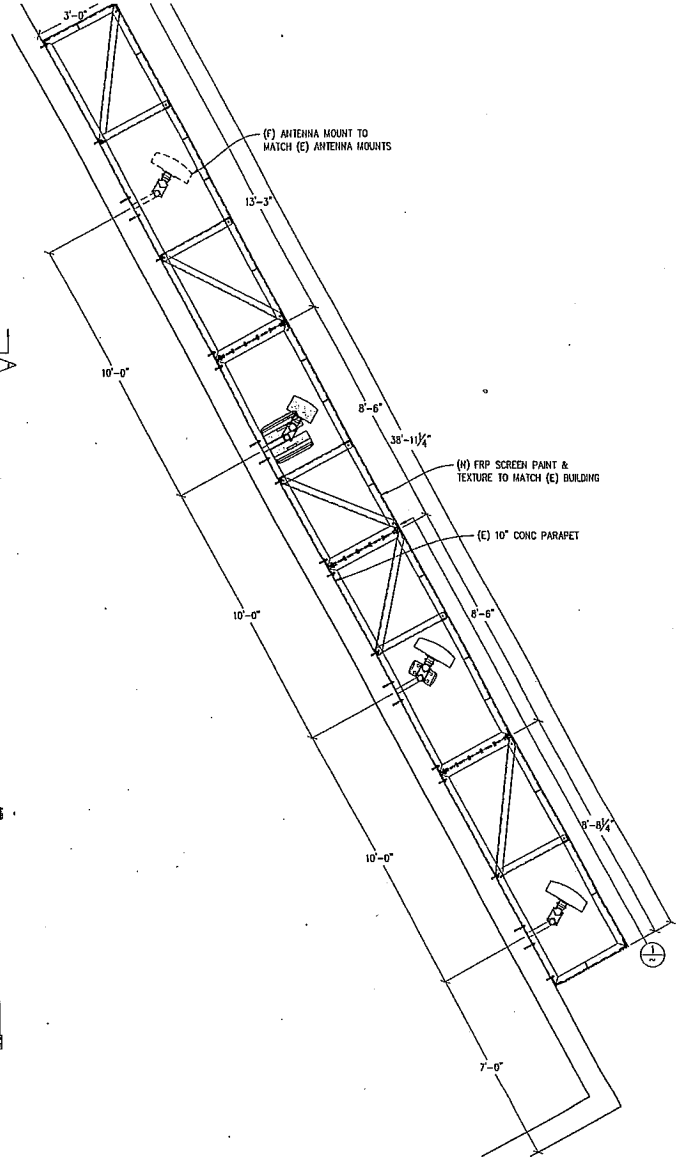
PARTIAL PLAN VIEW



PARTIAL FRONT VIEW

1 FRP SCREEN DETAIL

1"=1'-0"



FRAMING PLAN SECTOR A

⅛"=1'-0"

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SHEET TITLE:
STRUCTURAL FRAMING PLAN

SHEET NUMBER:
S-2

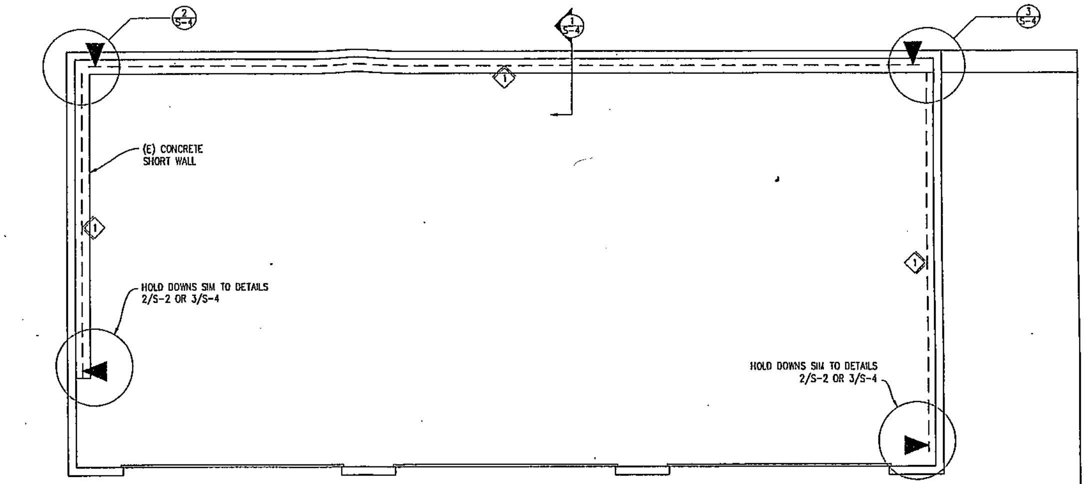
SHEAR WALL SCHEDULE

MK	SHEATHING	EDGE NAILING (EN)	ANCHOR BOLT (4)	SILL PLATE
◇1	15/32" STRUCT I	8d @ 6" O.C.	ø½" @ 48" O.C.	2X

1. FIELD NAILING (FN) TO BE 10d @ 12" O.C. TYP.
2. SPECIFIED ANCHOR BOLT SIZE & SPACING IS THE MINIMUM REQUIRED
3. SHEAR WALLS MORE THAN ONE VERTICAL PANEL IN HEIGHT SHALL HAVE EITHER VERTICAL OR HORIZONTAL STAGGERED SPLICE JOINTS. PROVIDE 2X BLKG AT ALL UNSUPPORTED PANEL EDGES U.NO.

▼ = HOLDDOWNS PER PROVIDED DETAILS

4. INSTALL SILL PLATE ANCHOR BOLTS SIM TO DETAIL 1/S-4

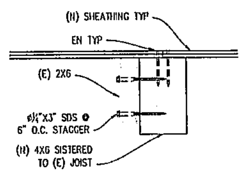


SHEAR WALL PLAN SECTOR B
½"=1'-0"

DIAPHRAGM NAILING SCHEDULE

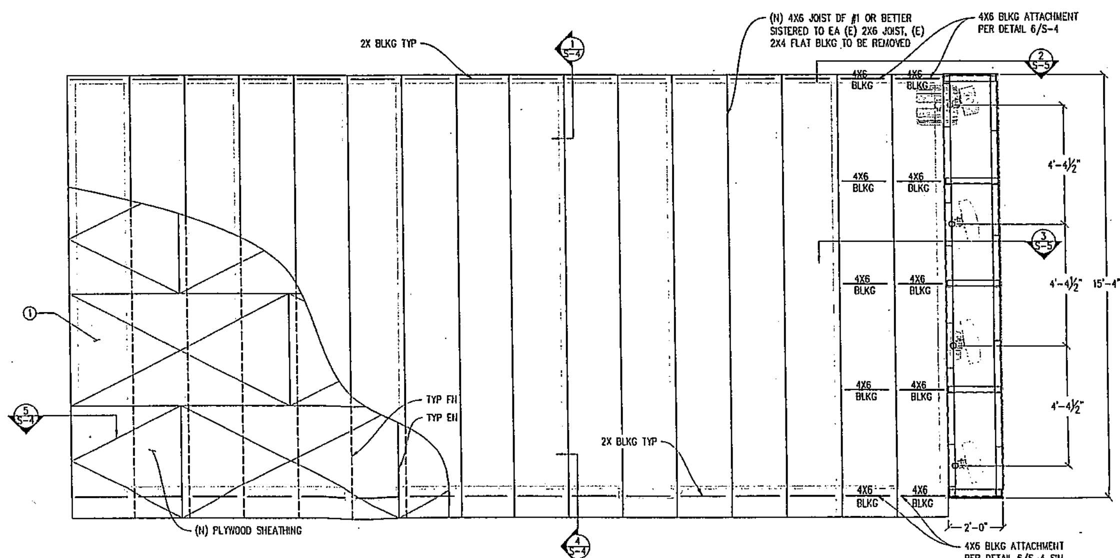
MK	SHEATHING	FIELD NAILING (FN)	EDGE NAILING (EN)
①	15/32" STRUCT I	10d @ 12" O.C.	10d @ 6" O.C.

1. STAGGER JOINTS UNLESS NOTED OTHERWISE
2. REMOVE (E) TIN ROOF & 2X4 FLAT BLKG BETWEEN (E) 2X6 JOISTS



TYPICAL EDGE NAILING

3. AFTER NEW SHEATHING INSTALLED, ADD (N) 30# FELT W/ (N) CORRUGATED ROOF ON TOP TO MATCH PRIOR. KEEP EXTERIOR TRIM WORK & GUTTERS WHERE POSSIBLE



ROOF FRAMING PLAN SECTOR B
½"=1'-0"

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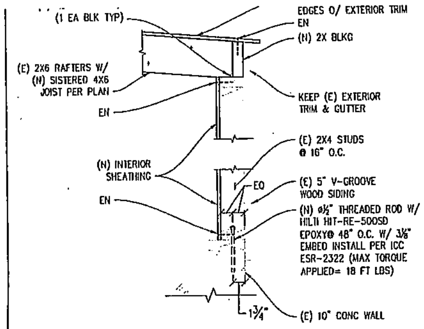
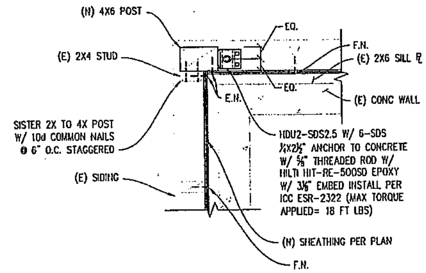
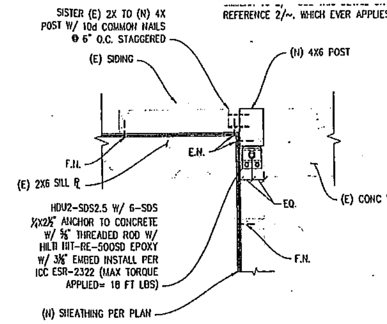
SHEET TITLE:
STRUCTURAL FRAMING PLAN
SHEET NUMBER:
S-3



1 WALL SECTION
1½"=1'-0"



2 CORNER HOLDOWN DETAIL
1½"=1'-0"



3 CORNER HOLDOWN DETAIL
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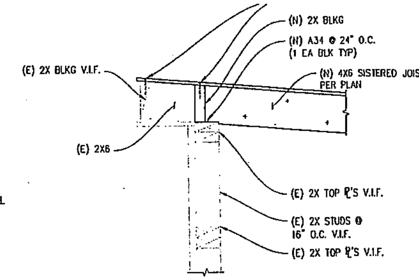
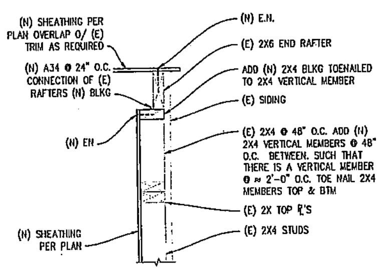
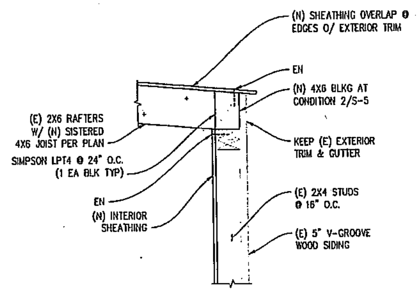


4 BLOCKING DETAIL
1½"=1'-0"



5 SECTION DETAIL
1½"=1'-0"



6 WALL SECTION
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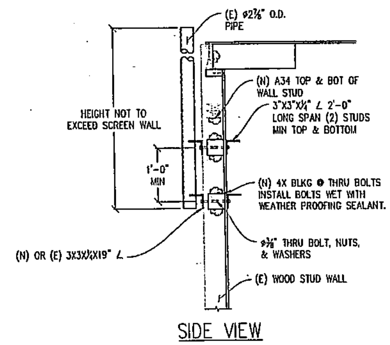
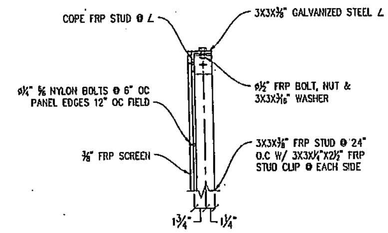
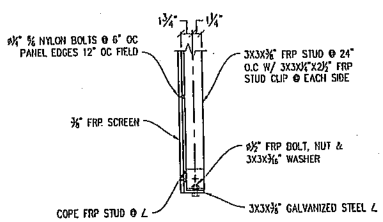


7 ANTENNA MOUNT DETAIL
1"=1'-0"



8 SCREEN CONNECTION @ TOP ∠
1½"=1'-0"



9 SCREEN CONNECTION @ BTM ∠
1½"=1'-0"

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	01/23/12	CLIENT REV	M.F.
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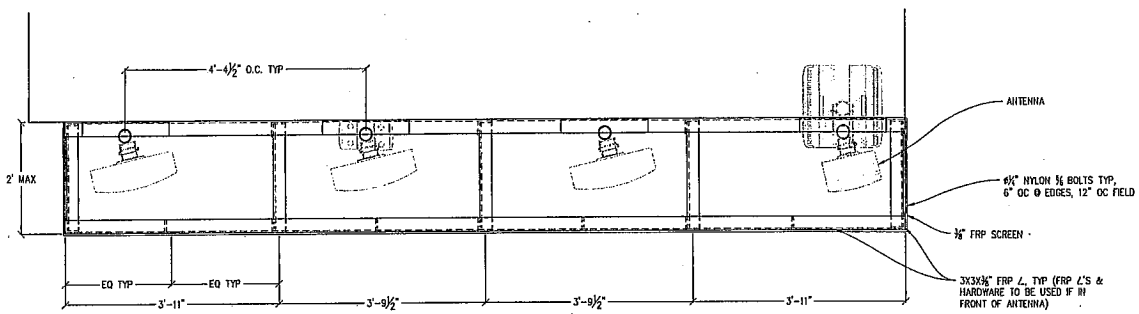
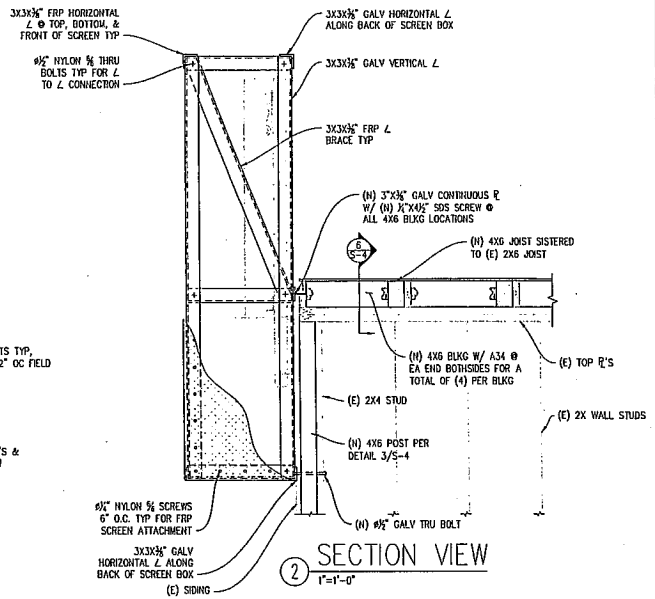
SHEET TITLE:
STRUCTURAL DETAILS

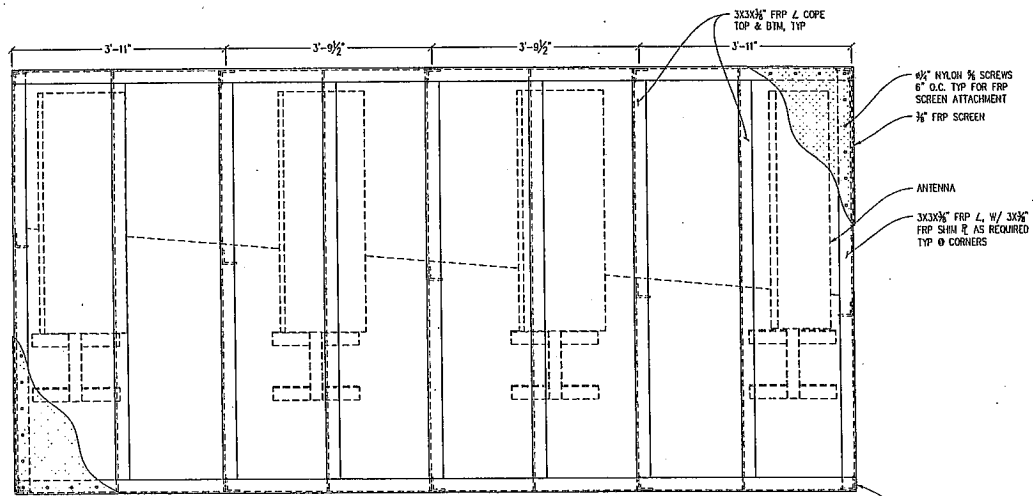
SHEET NUMBER:
S-4



TOP VIEW



2 SECTION VIEW
1"=1'-0"



FRONT VIEW

1 FRP SCREEN DETAIL
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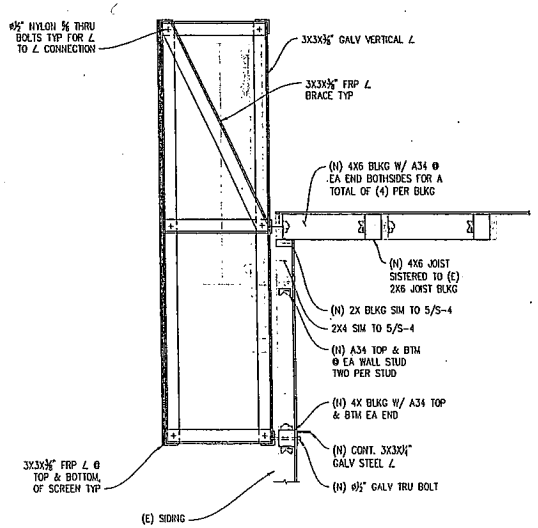


3 SECTION VIEW
1"=1'-0"

E. SAN LEANDRO

CNU0194 / CCL00194
8500 STEARNS AVE
OAKLAND, CA 94605

ISSUE STATUS

△	DATE	DESCRIPTION	BY
	08/04/10	CD 90%	JFK
	11/23/10	CD 100%	G.T.
	07/20/11	CLIENT REV	A.M.
	11/04/11	CLIENT REV	A.M.
	01/23/12	CLIENT REV	M.F.
	-	-	-

DRAWN BY: C. SYLVESTER
CHECKED BY: L. HOUGHTBY
APPROVED BY: D. FIGUEROA
DATE: 01/23/12

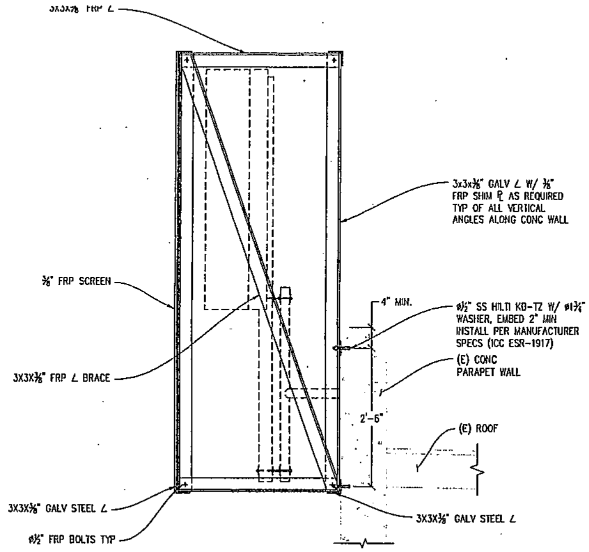
Streamline Engineering
3268 Penryn Rd, Suite 200 Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

REGISTERED PROFESSIONAL ENGINEER
NO. 79038
CIVIL
STATE OF CALIFORNIA

at&t
4430 ROSEWOOD DR, BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
STRUCTURAL DETAILS

SHEET NUMBER:
S-5



① FRP SCREEN DETAIL
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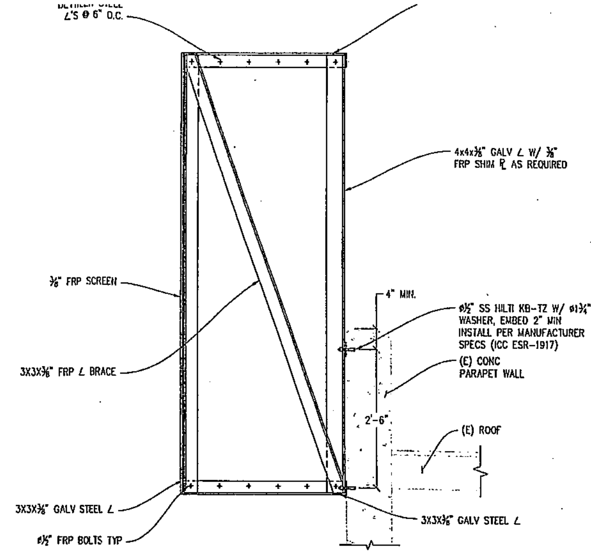

② FRP SCREEN DETAIL
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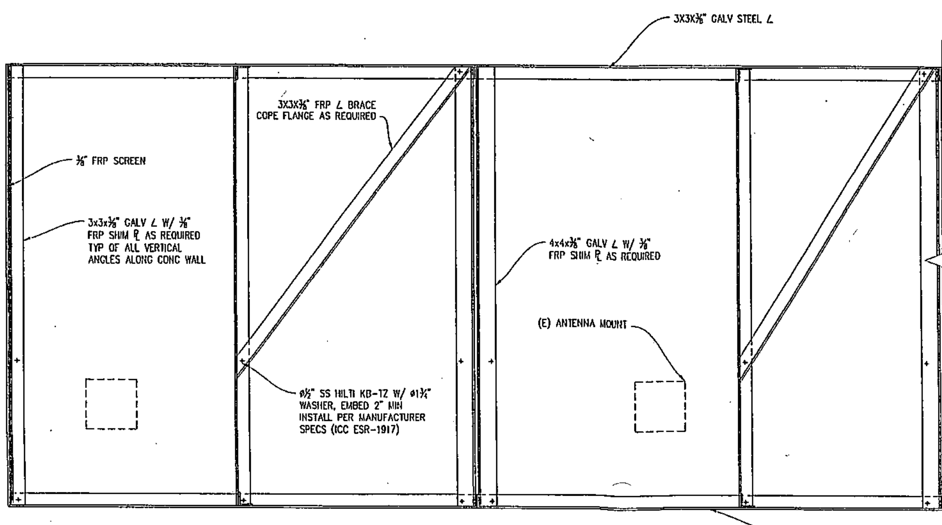


③ FRP SCREEN DETAIL
1"=1'-0"

E. SAN LEANDRO

CNU0194 / CCL00194
9500 STEARNS AVE
OAKLAND, CA 94605

ISSUE STATUS

△	DATE	DESCRIPTION	BY
	08/04/10	CD 90%	JFK
	11/23/10	CD 100%	G.T.
	07/20/11	CLIENT REV	A.M.
	11/04/11	CLIENT REV	A.M.
	01/23/12	CLIENT REV	M.F.
	-	-	-

DRAWN BY:	C. SYLVESTER
CHECKED BY:	L. HOUGHTBY
APPROVED BY:	D. FIGUEROA
DATE:	01/23/12

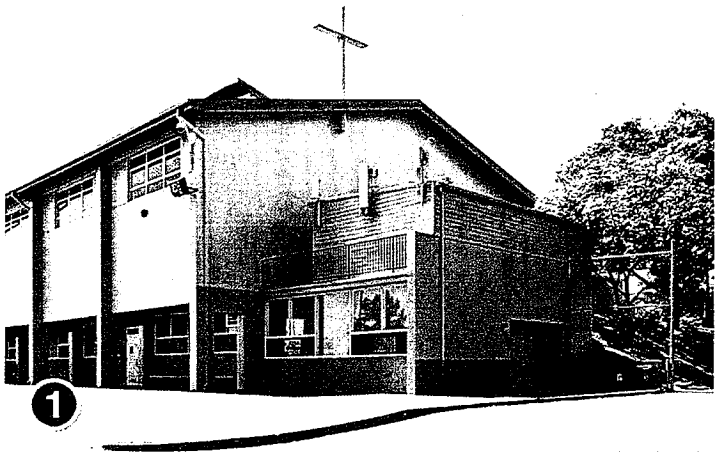
Streamline Engineering and Design, Inc.
3268 Penryn Rd, Suite 200 Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

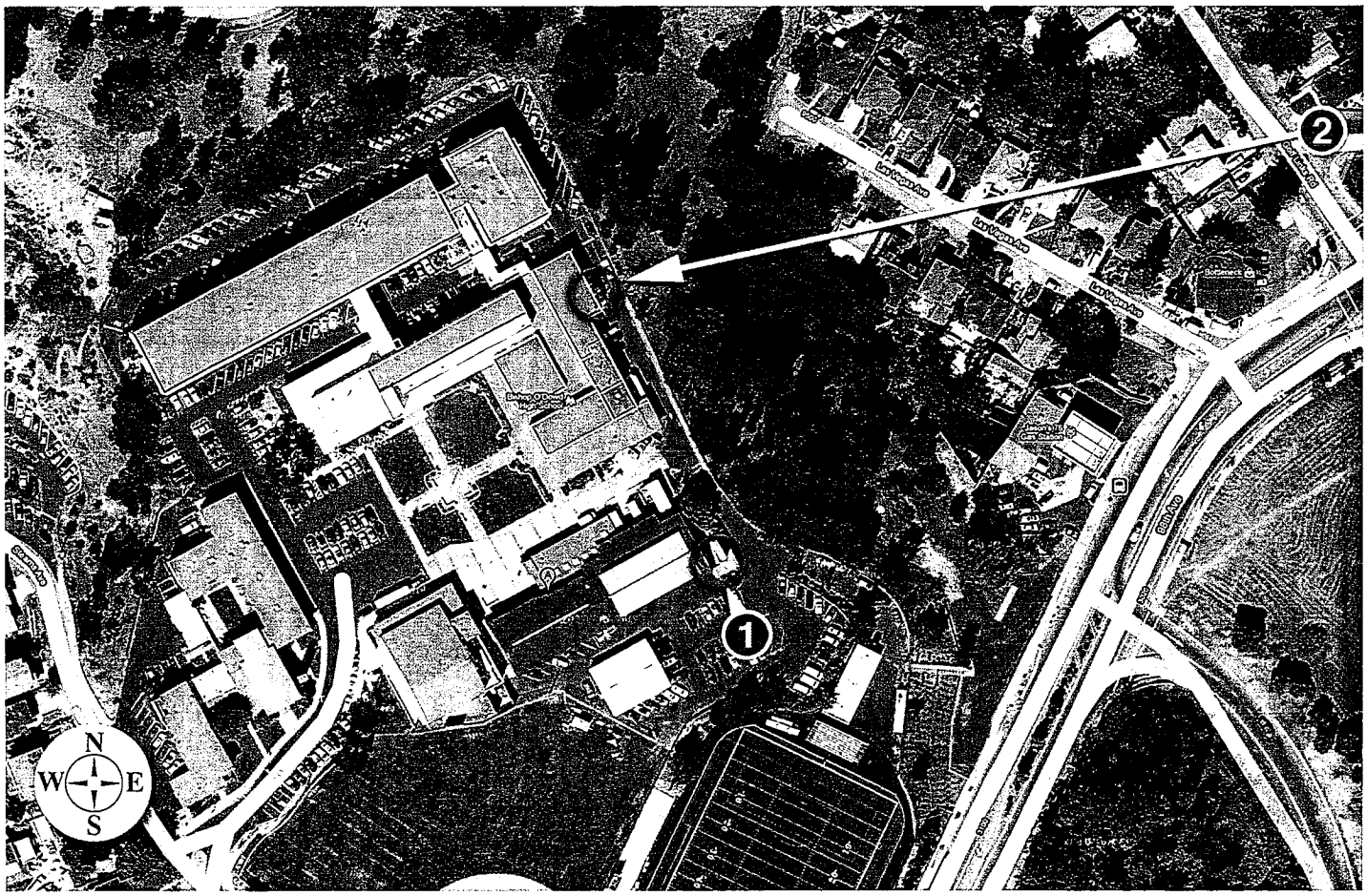
REGISTERED PROFESSIONAL ENGINEER DANIEL FIGUEROA NO. 79038 CIVIL STATE OF CALIFORNIA

at&t
4430 ROSEWOOD DR. BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
STRUCTURAL DETAILS
SHEET NUMBER:
S-6

ATTACHMENT D





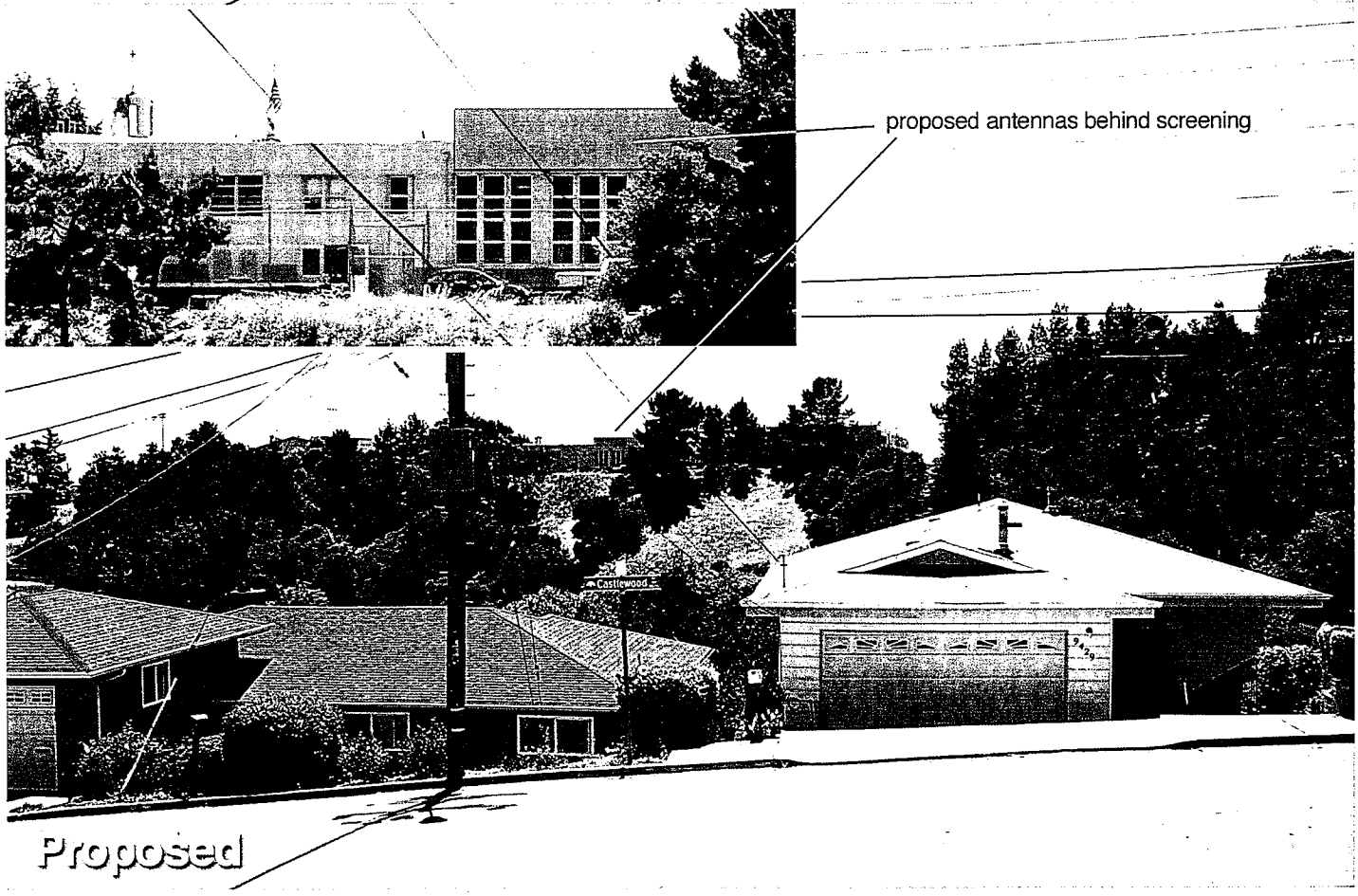
at&t

E. San Leandro **Site # CNU0194** **Aerial Map**

9500 Stearns Avenue
Oakland, CA 94605

10/26/10

Applied Imagination 510 914-0500



at&t

E. San Leandro **Site # CNU0194** **Looking Southwest from Oak Knoll Blvd.**

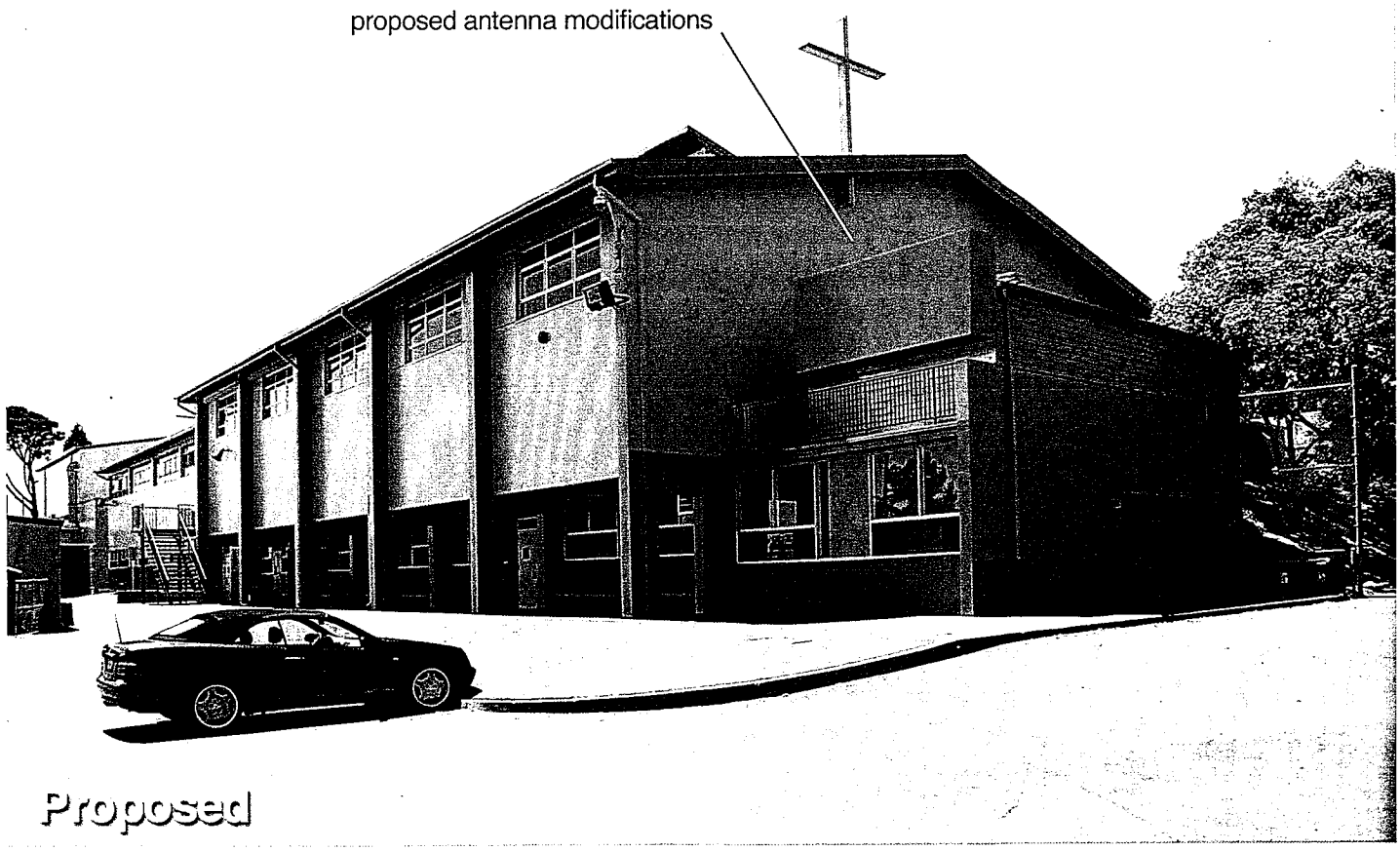
9500 Stearns Avenue
Oakland, CA

11/14/11

View #2

Applied Imagination 510 914-0500

Existing



Proposed

at&t

E. San Leandro **Site # CNU0194** **Looking West from Parking Lot**

9500 Stearns Avenue
Oakland, CA

View #1

7/11/11

Applied Imagination 510 914-0500

Theoretical RF Emissions Compliance Report

Prepared for:

AT&T

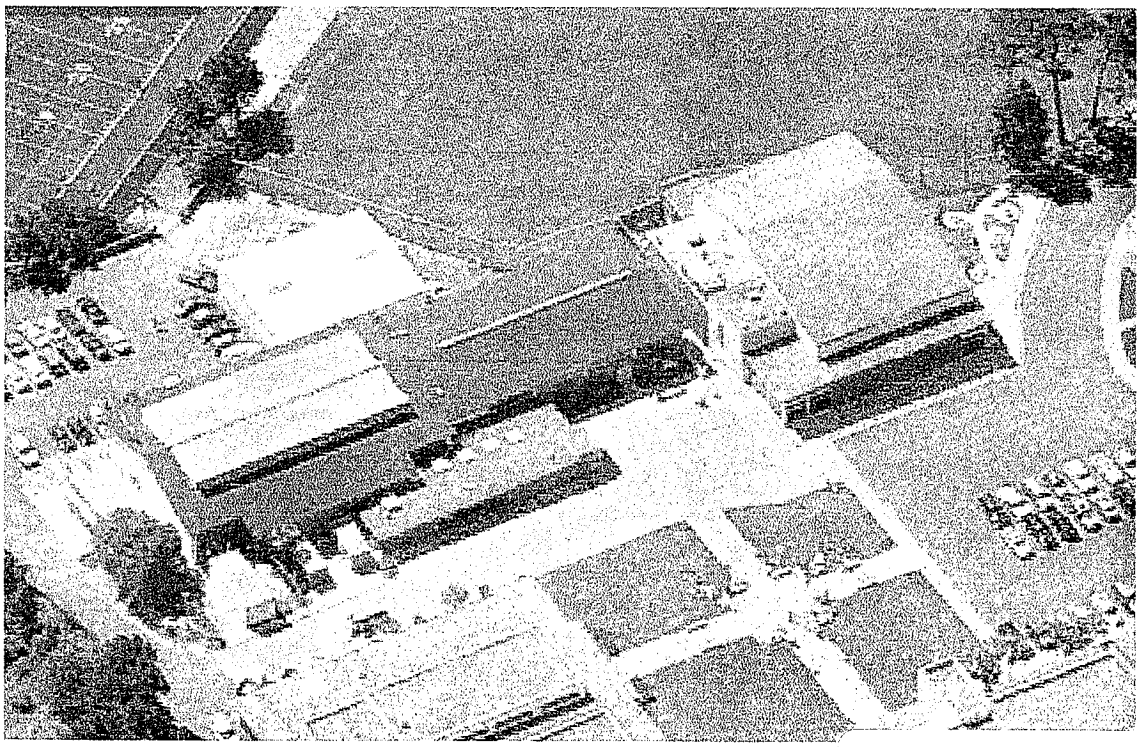
on behalf of :

Geist Engineering

Site: CNU0194-E San Leandro
Site ID: CNU0194

9500 Stearns Ave.
Oakland, CA 94605

October 18, 2010



ATTACHMENT E

WATERFORD CONSULTANTS

Prepared By:
Waterford Consultants, LLC

18331 Turnberry Drive
Round Hill, VA 20141
(703) 596-1022
www.waterfordconsultants.com

Theoretical RF Emissions Compliance Report

Site: CNU0194-E San Leandro
Site ID: CNU0194

9500 Stearns Ave.
Oakland, CA 94605

I certify that this report was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer in the jurisdiction of the facility and in the jurisdiction shown with my signature.

I am retained by Waterford Consultants, LLC which provides engineering services to clients in the Radio Communications and antenna siting industry, and that I am familiar with the Rules and Regulations and the policies of the Federal Communications Commission ("FCC") both in general and specifically as they apply to the treatment of the FCC's Rules for Radiofrequency Radiation Exposure and that I have been engaged in the analysis of Radiofrequency Radiation Exposure for more than 10 years.

I have examined the technical information supplied Steve Geist regarding to the subject site. This report specifically addresses Non-Ionizing Radiation to humans, and is intended to be used to demonstrate compliance.

The subject site will include cellular like network infrastructure, which may operate a number of frequency bands, and with antennas and power levels indicated in the attachments.

That consideration of possible exposure of humans to radiofrequency radiation must utilize the rules and computational standards set by the FCC, the Federal Agency having jurisdiction over communications facilities. The FCC has published analytical techniques and guidelines: *Office of Engineering and Technology, Bulletin 65* ("OET65"), a copy of which is freely available to the public at www.fcc.gov/oet/rfsafety, and that the analytical techniques used to produce this report follow OET65 guidelines.

The FCC rules define two tiers of permissible exposure: 1) "general population / uncontrolled environments," applies to those situations in which persons may not be aware of the presence of electromagnetic energy (the "General Population") and (2) "controlled environments", those situations in which persons are aware of their potential for exposure ("Occupational Personnel"), and have received appropriate safety training. Maximum Permissible Exposure ("MPE") is defined in OET 65 as being 100% of the applicable exposure limit.

The FCC requires licensees to assure that persons are not exposed to RF power densities in excess of their applicable MPE limits. These rules apply to both Occupational

Personnel and General Population persons.

At the subject site, 100% of the more restrictive General Population MPE equates to 20% of the less restrictive Occupation or Controlled environment MPE, and anyone may be granted safe access to those areas meeting the General Population MPE limits. For persons who have been properly trained and meet the definition of being Occupation Personnel, access to areas shown as 20% to 100% of the Occupational Personnel MPE limit of the controlled environment may be granted. Administrative controls should be put in place for any area in excess of 100% Occupational Personnel MPE, and access may be granted only to persons properly trained and equipped with proper Personal Protective Equipment (PPE), such as a RF Personal Monitor. Administrative controls include necessary procedures, such as preventing access to an area by physically locking doors or other access mechanisms, requiring a check out procedure for personal protective equipment, access card access, log-in, presentation of appropriate RF awareness training certifications, etc.

Power density decreases significantly over a short distance from any antenna. Specifically with respect to directional antennas, the design, oriented in azimuth and elevation as documented, reasonably precludes potential for exposure with calculated significance at any location other than directly in front of the antenna.

The site management company should put in place engineering and/or administrative controls to limit access to locations so that routine occupancy by the General Population is eliminated or substantially reduced and permitting access into those locations only by Occupational Personnel authorized to be there, such as communications industry professionals, and approved contractors and vendors of the site management company.

Administrative controls incorporated into any agreement with the building owner and/or appropriate management company will assure, in the infrequent instances of maintenance access to subject areas in front of the antenna elements, that only authorized Occupational Personnel following safe work practices will be employed.

If a facility maintenance procedure requires more than incidental or temporary access to areas in excess of the General Population limit, administrative controls will include the requirement that the carrier shall be notified of the procedure with reasonable time to reach a decision, informed by any engineering assessments required by AT&T, regarding their choice about de-energizing their equipment during the facility maintenance procedure.

As this report has been provided in the absence of a site visit, specific recommendation(s) as to the placement of any signage is infeasible. However, signage should be placed in stages, reflecting the theoretical power density levels in each area as presented in the attached plot(s). Levels are broken into three tiers; those at or below the MPE for General Population persons (associated with a blue colored "Notice" sign), areas greater than the

General Population limits, but below the 100% occupation exposure limits (associated with the yellow "Caution" sign) and areas in excess of the 100% Occupation Personnel MPE exposure limits (associated with the Red "Warning" sign).

That at this time, no other action by the carrier is necessary at the site to demonstrate compliance.

In summary, I certify that the technical analysis techniques prescribed by the FCC Rules and Regulations, specifically 47 CFR 1.1307 and Office of Engineering and Technology's Bulletin 65 have been adhered to, and that the information and presentation of herein to be accurate.

October 19, 2010
Ted Alan Abrams
Registered Professional Engineer

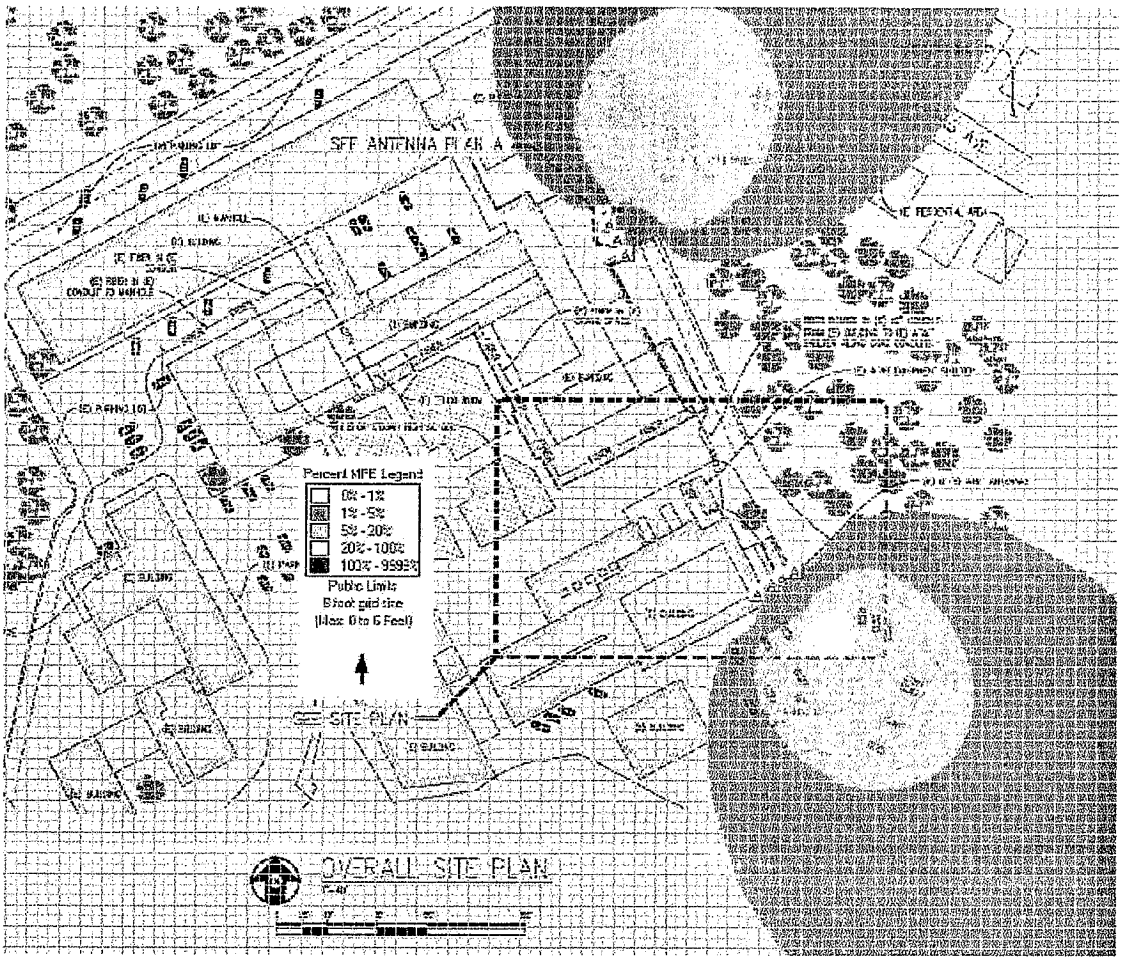
Attachment A
Theoretical RF Power Density Plots

The theoretical MPE plots below correspond to MPE levels relative to the main roof level elevation. For example, a reference of +20 feet could correspond to the roof of an elevator shaft. Percentages are that of the Occupation MPE. Thus, anything less than 20% MPE Occupation is less than 100% MPE of the General Population limit.

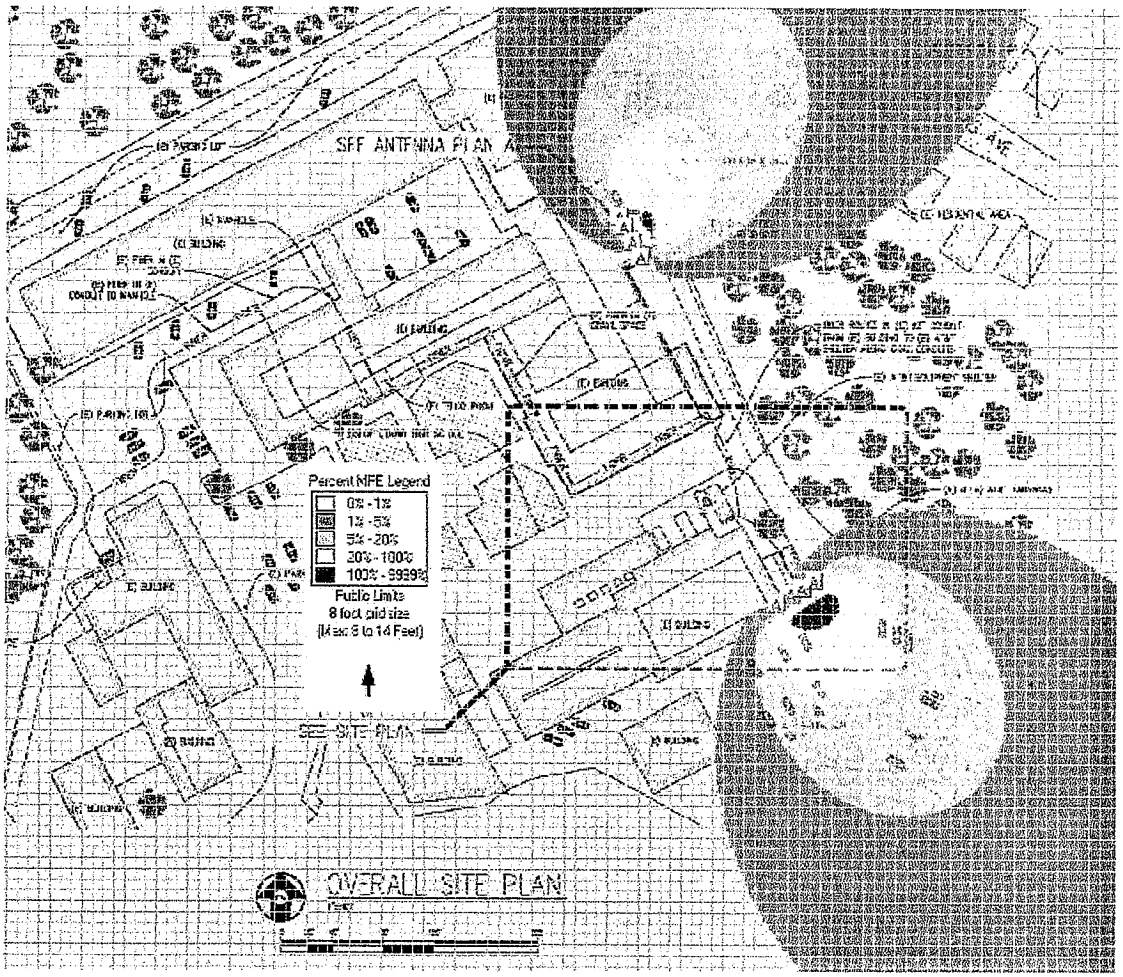
Plots are presented at reference planes routinely accessible. Not all elevations will be shown. Areas above 100% MPE in inaccessible area (such as in free space) are compliant and do not require mitigation.

Additional plots may be shown at ground level, in addition to roof reference plots. Carefully examine the legend and plot captions for reference plane information.

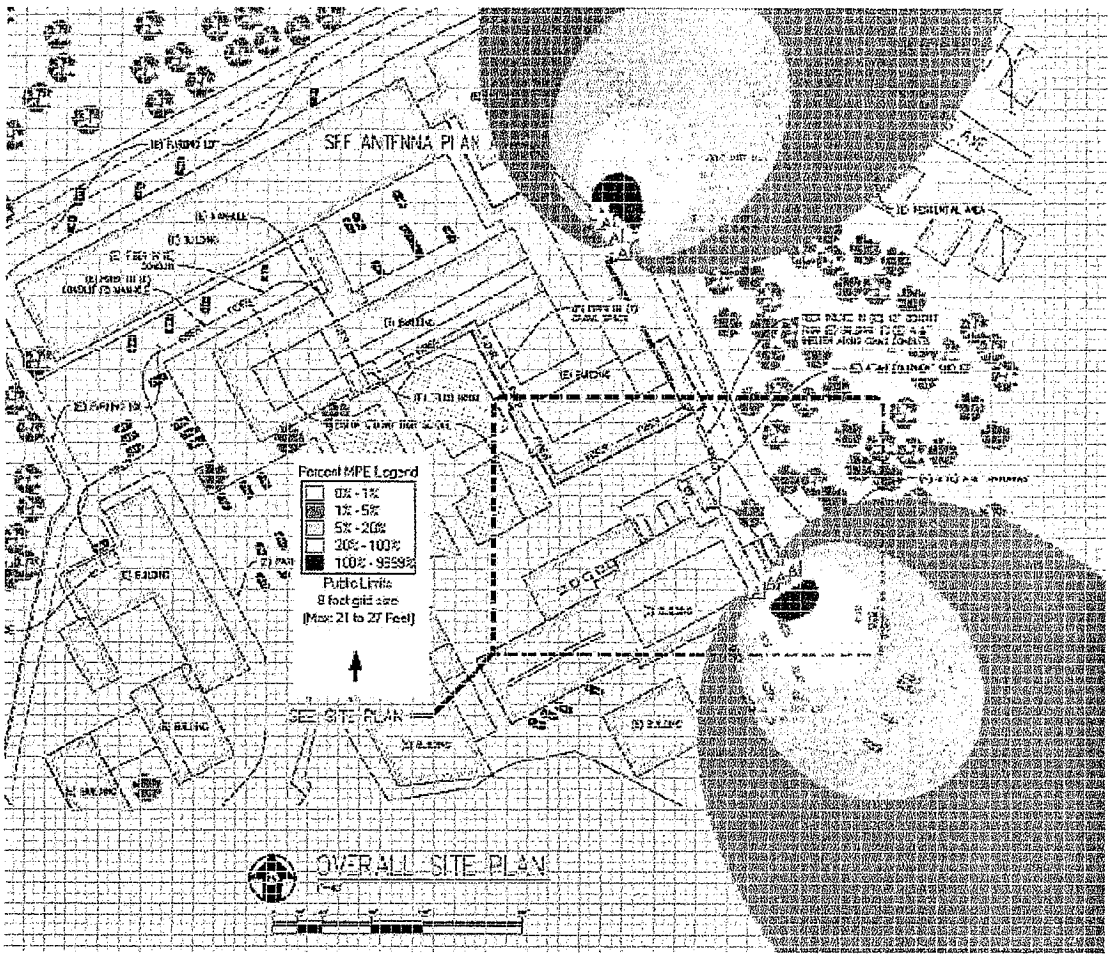
Attachment A
Theoretical RF Power Density Plots



Plot 1: Cumulative RF contribution from AT&T on ground level (0 ft AGL, spatially averaged over 6 ft)



Plot 2: Cumulative RF contribution from AT&T on upper ground level due to sloped terrain (8 ft AGL, spatially averaged over 6 ft)



Plot 3: Cumulative RF contribution from AT&T on main roof (21 ft AGL, spatially averaged over 6 ft)

Attachment B
Antenna Inventory

Number	Name	Model	Power (Watts)	Azimuth	Frequency (Mhz)	Center Height
1	AT&T	Kathrein 860-10025	1000	140	850	17.8ft
2	AT&T	Kathrein 860-10025	1000	140	1950	17.8ft
3	AT&T	Kathrein 742 264	1000	140	850	17.8ft
4	AT&T	Kathrein 860-10025	1000	140	700	17.8ft
5	AT&T	Kathrein 860-10025	1000	30	700	20.6ft
6	AT&T	Kathrein 860-10025	1000	30	1950	17.8ft
7	AT&T	Kathrein 860-10025	1000	30	850	17.8ft
8	AT&T	Kathrein 742 264	1000	30	850	17.8ft