

Location:	3700 Dorisa Avenue
Assessor's Parcel Number:	043A-4675-005-26 & 005-27
Proposal:	To install and replace new and existing Telecommunication facilities (resulting in a Macro-telecommunication facilities) located on the grounds of the St.Paschal Baylon Church.
Contact Person/	Jonathan Fong /The Lyle Company
Phone Number:	(916)868-6673
Owner:	Roman Catholic Bishop of Oakland
Planning Permits Required:	Major Conditional Use Permit and Design Review to co-locate three new panel antennas (replacing 2 existing antennas) on an existing ground level pipe-mounted Micro Telecommunications Facility located within a residential zone.
General Plan:	Hillside Residential
Zoning:	RH-4 Hillside Residential Zone -4
Environmental	Exempt, Section 15301(e) of the State CEQA Guidelines:
Determination:	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:	December 23, 2010
Staff Recommendation:	Approve with the attached conditions
Finality of Decision:	<i>Appealable to City Council within 10 days</i>
For Further Information:	Contact case planner Moe Hackett, Planner II at (510) 238-3973 or mhackett@oaklandnet.com

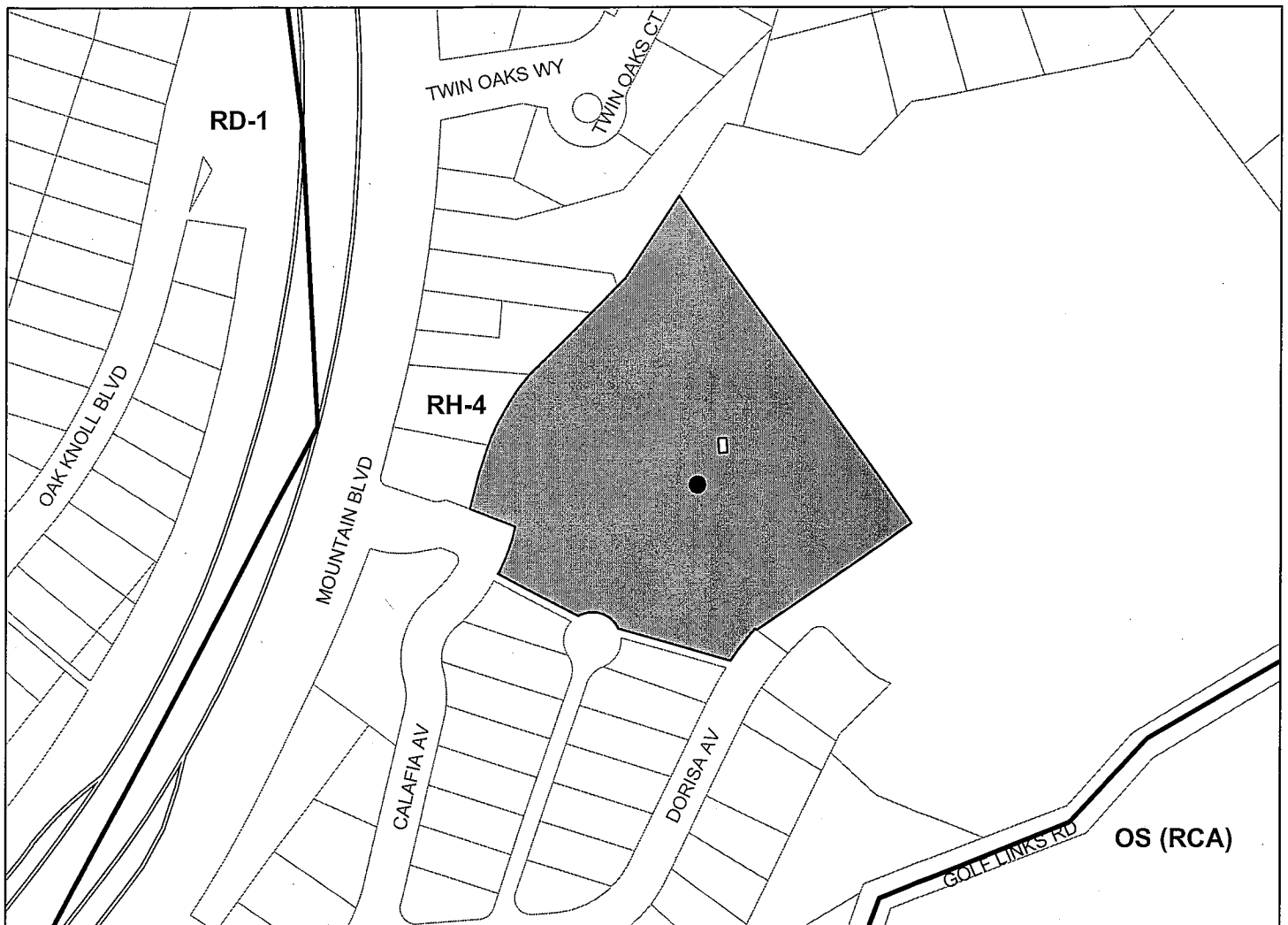
SUMMARY

The applicant Jonathan Fong /The Lyle Company, on behalf of the property owner Roman Catholic Bishop of Oakland, requests Planning Commission approval of a Major Conditional Use Permit and Regular Design Review to expand an existing Macro Telecommunications Facility located at a church and school. The project would involve attaching 3 new panel antennas to an existing ground level pipe-mounted Macro Telecommunications Facility located within a fenced in enclosure, and installing conduits and associated equipment to be located within an existing concealed shelter at ground-level. 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.

This application, if approved along with Item #3 on this agenda (CMD11161), would based upon field observations conducted by staff, establish a site that contains at least 19 poles and 22 antennas.

CITY OF OAKLAND PLANNING COMMISSION



0 125 250 500 750 1,000 Feet



Case File: CMD10-348
Applicant: Jonathan Fong / The Lyle Company
Address: 3700 Dorisa Avenue
Zone: RH-4

PROPERTY DESCRIPTION

The property is a 3.8-acre parcel with the existing antenna array located on edge of a down-slope portion. The site contains a variety of civic uses, a large parking lot and adjacent playground, and several buildings. The existing 8 1/2' to 9' tall pipe mounted antennas are in a fenced in enclosure on the down slope north-west side of the site. The site consists of a very large plateau with a curved slope running north to south on the western side of the property. This down slope portion of the site contains approximately 19 existing telecommunications mounts (referenced on the plan sets as **pipes, poles, pipe-mounts, pole-mounts, or mounts**) mounted antennas, and the associated equipment including two large walled enclosures along the side of the utility drive way to the right (west) of the main entry gate. The site creates a perfect naturally occurring location to place these types of telecommunication facilities due to its elevation, unobstructed transmission vectors, and deep vegetation that hides such facilities (antennas) from view. Although there are as many as 22 existing antennas placements they are spread across the curving scrub and tree covered hillside slope. The tops of these antennas are below the level grade of the subject parcel and in all cases are very difficult to discern by the casual observer both on and off site. The macro installation is over 400' from the nearest residential structure (down-slope) and 230' from the nearest public roadways (Dorisa Avenue and nearby Oak Hills Circle).

PROJECT DESCRIPTION

The proposal would involve attaching 3 new panel antennas and remote radio unit (RRU's) to an existing ground level pipe-mounted Macro Telecommunications Facility located within a fenced in enclosure, and installing conduits and associated equipment to be located within an existing concealed shelter at ground-level. The new configuration will not alter the overall height of the pipes and will not drastically alter the pipes configuration. The pipes and new antennas appearance will continue to maintain a deep forest green color (see Specific Condition # 28). This will reduce the possibility of additional visual impacts and allow for the continued "stealthiness" of the facilities appearance as seen from both near and far away. The proposal also includes minor alterations to the conduit bundles and on site equipment. These changes would not represent any appreciable change to the exterior appearance of the existing pipe-mounts.

GENERAL PLAN ANALYSIS

The project site is located within a Hillside 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 neighborhood residential areas that are characterized by detached, single unit structures on hill side lots"* 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 existing pipe-mounted telecommunication facility is consistent with the provisions of a Macro facility (this site is home to approximately 19 other antennas, most of which are also pipe-mounted), and can support the new wireless antenna additions. New or expanded Telecommunications Facilities located within 300 feet and not fully concealed from view from a Residential Zone require Planning Commission review. The project site is located within the RH-4 Hillside Residential Zone -4 and the pipe-mounted facilities are not fully concealed from some views (generally on site). The proposal would minimally alter the existing pipe-mounted telecommunication facility. The retention of color (deep green)

minimally alter the existing pipe-mounted telecommunication facility. The retention of color (deep green) would continue to camouflage the new and existing facilities as viewed against a back-drop of trees as seen on and from the hill side. The proposed equipment cabinet would not be visible from the public right of way. Proposed conditions of approval would require that the pipe-mounted telecommunication facility and existing and proposed antennas be painted a dark green to match the surrounding hillsides. The addition of 3 new antennas and RRU's, painted green to blend with the green of the trees on the surrounding tree lines, and which contain a satisfactory emissions report, are consistent with the Findings required 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 3 new antennas and RRU's (for a total of 5 antennas) to a pipe-mounted telecommunication facility containing 3 antennas and to establish other minor equipment upgrades (coaxial conduits) running below ground-level to an adjacent structure with equipment located within this building 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 3 new antennas would be collocated on a pipe-mounted telecommunication facility on a hillside hosting various wireless carriers totaling approximately 19 antennas in total at present.

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 monopole facility. 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 antennas on an existing pole, and the request merely features the addition of 2 new antennas, 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 Monopole.

- 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
Deputy Director
Community and Economic Development Agency

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 along the top of a hill side on or near the ridge line within a residential zone. Specifically, it would provide for three new antennas (one panel and two remote radio unit (RRU's) to the existing pipe-mounted facility (sometimes referred to as pole mounted facilities, but generally consisting of three ground level poles that are approximately 8 1/2' to 9' tall). The existing poles and antennas are camouflaged in a deep green livery and located within a small fenced in compound. The proposal would result in a total of 5 antennas (replacement of one existing panel and addition of two RRU's), create new concealed equipment (within an existing near by building) at ground level, and add new underground coaxial conduits. 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 commercial 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 paint 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.

FINDINGS FOR APPROVAL

ATTACHMENT A

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 3 new 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 addition of 3 antenna panels (and the 2 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 vegetation , down slope location, and stealthy design of the antennas and mountings (including deep forest green camouflaging paint) this proposal offers no 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,**

FINDINGS FOR APPROVAL

The proposed telecommunication antennas will be located on pipe-mounted facilities approximately 8 1/2' to 9' in height. The entire facility is located near the top a ridge line overlooking east Oakland near the Warren Freeway (Highway 13). Although the facility is concealed from view by it's down slope location, dense existing vegetation, and camouflaging paint it is not a structurally concealed telecommunication facility and as such is considered to be a Macro Telecommunication Facility (additionally the number of antennas in the area exceeds 12 total and do not qualify as Mini or Micro Facilities). The proposed facilities will be enclosed inside of a small fenced off area and will have its equipment cabinets located in a separate completely screened or enclosed on-site location. The proposal will not have a significant effect on the visual character of the appearances of the Oak Knoll and Sequoyah 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. 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 Oak Knoll and Sequoyah Heights districts, and the surrounding area. As noted in the previous Findings it will enhance local services, and is consistent with the Hillside 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 Lyle Company proposes to install three (3) individual wireless antennas 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 on an existing pipe-mounts. The entire facility would be painted green to match in color the surrounding tree line.

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 not 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 attached to an existing pipe-mounts on a ridge line below the campus sight lines, and would be painted to fade into the surrounding hillside when viewed from the surrounding area.

FINDINGS FOR APPROVAL

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 attached to an existing pipe-mounts and would be painted to fade into the surrounding hillside when viewed from the surrounding area. The existing macro facility represents an established yet fairly well camouflaged visual element 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 storage shed that is attached to the rear of one of the campus structures. Per Specific Condition # 29 the facilities will be maintained in good condition.

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 not be roof mounted.

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 be attached to an existing pipe-mount at a height of less than 10 feet, and will be surrounded at ground level by existing and new fencing elements. 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 August 12, 2011, 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 1 new panel antennas and 2 new remote radio unit (RRU's) on an existing pipe mounted 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.

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 third-party 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 review 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. Dust Control***Prior to issuance of a demolition, grading or building permit***

During construction, the project applicant shall require the construction contractor to implement the following measures required as part of Bay Area Air Quality Management District's (BAAQMD) basic and enhanced dust control procedures required for construction sites. These include:

- a) Water all active construction areas at least twice daily. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water should be used whenever possible.
- b) Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer).
- c) Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.

CONDITIONS OF APPROVAL

- d) Sweep daily (with water sweepers using reclaimed water if possible) all paved access roads, parking areas and staging areas at construction sites.
- e) Sweep streets (with water sweepers using reclaimed water if possible) at the end of each day if visible soil material is carried onto adjacent paved roads.
- f) Limit the amount of the disturbed area at any one time, where feasible.
- g) Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph.
- h) Pave all roadways, driveways, sidewalks, etc. as soon as feasible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
- i) Replant vegetation in disturbed areas as quickly as feasible.
- j) Enclose, cover, water twice daily or apply (non-toxic) soil stabilizers to exposed stockpiles (dirt, sand, etc.).
- k) Limit traffic speeds on unpaved roads to 15 miles per hour.
- l) Clean off the tires or tracks of all trucks and equipment leaving any unpaved construction areas.

13. Construction Emissions***Prior to issuance of a demolition, grading or building permit***

To minimize construction equipment emissions during construction, the project applicant shall require the construction contractor to:

- a) Demonstrate compliance with Bay Area Air Quality Management District (BAAQMD) Regulation 2, Rule 1 (General Requirements) for all portable construction equipment subject to that rule. BAAQMD Regulation 2, Rule 1 provides the issuance of authorities to construct and permits to operate certain types of portable equipment used for construction purposes (e.g., gasoline or diesel-powered engines used in conjunction with power generation, pumps, compressors, and cranes) unless such equipment complies with all applicable requirements of the "CAPCOA" Portable Equipment Registration Rule" or with all applicable requirements of the Statewide Portable Equipment Registration Program. This exemption is provided in BAAQMD Rule 2-1-105.
- b) Perform low- NOx tune-ups on all diesel-powered construction equipment greater than 50 horsepower (no more than 30 days prior to the start of use of that equipment). Periodic tune-ups (every 90 days) shall be performed for such equipment used continuously during the construction period.

14. 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.
- g) Applicant shall use temporary power poles instead of generators where feasible.

15. Noise Control

Ongoing throughout demolition, grading, and/or construction

To reduce noise impacts due to construction, the project applicant shall require construction contractors to implement a site-specific noise reduction program, subject to the Planning and Zoning Division and the Building Services Division review and approval, which includes the following measures:

- a) Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or shrouds, wherever feasible).
- b) Except as provided herein, Impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used, if such jackets are commercially available and this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures.
- c) Stationary noise sources shall be located as far from adjacent receptors as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City to provide equivalent noise reduction.

CONDITIONS OF APPROVAL

- d) The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented.

16. Noise Complaint Procedures***Ongoing throughout demolition, grading, and/or construction***

Prior to the issuance of each building permit, along with the submission of construction documents, the project applicant shall submit to the Building Services Division a list of measures to respond to and track complaints pertaining to construction noise. These measures shall include:

- a) A procedure and phone numbers for notifying the Building Services Division staff and Oakland Police Department; (during regular construction hours and off-hours);
- b) A sign posted on-site pertaining with permitted construction days and hours and complaint procedures and who to notify in the event of a problem. The sign shall also include a listing of both the City and construction contractor's telephone numbers (during regular construction hours and off-hours);
- c) The designation of an on-site construction complaint and enforcement manager for the project;
- d) Notification of neighbors and occupants within 300 feet of the project construction area at least 30 days in advance of extreme noise generating activities about the estimated duration of the activity; and
- e) A preconstruction meeting shall be held with the job inspectors and the general contractor/on-site project manager to confirm that noise measures and practices (including construction hours, neighborhood notification, posted signs, etc.) are completed.

17. Interior Noise***Prior to issuance of a building permit and Certificate of Occupancy***

If necessary to comply with the interior noise requirements of the City of Oakland's General Plan Noise Element and achieve an acceptable interior noise level, noise reduction in the form of sound-rated assemblies (i.e., windows, exterior doors, and walls), and/or other appropriate features/measures, shall be incorporated into project building design, based upon recommendations of a qualified acoustical engineer and submitted to the Building Services Division for review and approval prior to issuance of building permit. Final recommendations for sound-rated assemblies, and/or other appropriate features/measures, will depend on the specific building designs and layout of buildings on the site and shall be determined during the design phases. Written confirmation by the acoustical consultant, HVAC or HERS specialist, shall be submitted for City review and approval, prior to Certificate of Occupancy (or equivalent) that:

- (a) Quality control was exercised during construction to ensure all air-gaps and penetrations of the building shell are controlled and sealed; and
- (b) Demonstrates compliance with interior noise standards based upon performance testing of a sample unit.
- (c) Inclusion of a Statement of Disclosure Notice in the CC&R's on the lease or title to all new tenants or owners of the units acknowledging the noise generating activity. Potential features/measures to reduce interior noise could include, but are not limited to, the following:

- a) Installation of an alternative form of ventilation in all units identified in the acoustical analysis as not being able to meet the interior noise requirements due to adjacency to a noise generating activity, filtration of ambient make-up air in each unit and analysis of ventilation noise if ventilation is included in the recommendations by the acoustical analysis.
- b) Prohibition of Z-duct construction.

18. 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.

19. Construction Traffic and Parking***Prior to the issuance of a demolition, grading or building permit***

The project applicant and construction contractor shall meet with appropriate City of Oakland agencies to determine traffic management strategies to reduce, to the maximum extent feasible, traffic congestion and the effects of parking demand by construction workers during construction of this project and other nearby projects that could be simultaneously under construction. The project applicant shall develop a construction management plan for review and approval by the Planning and Zoning Division, the Building Services Division, and the Transportation Services Division. The plan shall include at least the following items and requirements:

- a) A set of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak traffic hours, detour signs if required, lane closure procedures, signs, cones for drivers, and designated construction access routes.
- b) Notification procedures for adjacent property owners and public safety personnel regarding when major deliveries, detours, and lane closures will occur.
- c) Location of construction staging areas for materials, equipment, and vehicles at an approved location.
- d) A process for responding to, and tracking, complaints pertaining to construction activity, including identification of an onsite complaint manager. The manager shall determine the cause of the complaints and shall take prompt action to correct the problem. Planning and Zoning shall be informed who the Manager is prior to the issuance of the first permit issued by Building Services.
- e) Provision for accommodation of pedestrian flow.

20. Erosion and Sedimentation Control***Ongoing throughout demolition grading, and/or construction activities***

The project applicant shall implement Best Management Practices (BMPs) to reduce erosion, sedimentation, and water quality impacts during construction to the maximum extent practicable. Plans demonstrating the Best Management Practices shall be submitted for review and approval by the Planning and Zoning Division and the Building Services Division. At a minimum, the project applicant shall provide filter materials deemed acceptable to the City at nearby catch basins to prevent any debris and dirt from flowing into the City's storm drain system and creeks.

21. Hazards Best Management Practices**CONDITIONS OF APPROVAL**

Prior to commencement of demolition, grading, or construction

The project applicant and construction contractor shall ensure that construction of Best Management Practices (BMPs) are implemented as part of construction to minimize the potential negative effects to groundwater and soils. These shall include the following:

- a) Follow manufacture's recommendations on use, storage, and disposal of chemical products used in construction;
- b) Avoid overtopping construction equipment fuel gas tanks;
- c) During routine maintenance of construction equipment, properly contain and remove grease and oils;
- d) Properly dispose of discarded containers of fuels and other chemicals.
- e) Ensure that construction would not have a significant impact on the environment or pose a substantial health risk to construction workers and the occupants of the proposed development. Soil sampling and chemical analyses of samples shall be performed to determine the extent of potential contamination beneath all UST's, elevator shafts, clarifiers, and subsurface hydraulic lifts when on-site demolition, or construction activities would potentially affect a particular development or building.
- f) If soil, groundwater or other environmental medium with suspected contamination is encountered unexpectedly during construction activities (e.g., identified by odor or visual staining, or if any underground storage tanks, abandoned drums or other hazardous materials or wastes are encountered), the applicant shall cease work in the vicinity of the suspect material, the area shall be secured as necessary, and the applicant shall take all appropriate measures to protect human health and the environment. Appropriate measures shall include notification of regulatory agency(ies) and implementation of the actions described in the City's Standard Conditions of Approval, as necessary, to identify the nature and extent of contamination. Work shall not resume in the area(s) affected until the measures have been implemented under the oversight of the City or regulatory agency, as appropriate.

22. Waste Reduction and Recycling

The project applicant will submit a Construction & Demolition Waste Reduction and Recycling Plan (WRRP) and an Operational Diversion Plan (ODP) for review and approval by the Public Works Agency.

Prior to issuance of demolition, grading, or building permit

Chapter 15.34 of the Oakland Municipal Code outlines requirements for reducing waste and optimizing construction and demolition (C&D) recycling. Affected projects include all new construction, renovations/alterations/modifications with construction values of \$50,000 or more (except R-3), and all demolition (including soft demo). The WRRP must specify the methods by which the development will divert C&D debris waste generated by the proposed project from landfill disposal in accordance with current City requirements. Current standards, FAQs, and forms are available at www.oaklandpw.com/Page39.aspx or in the Green Building Resource Center. After approval of the plan, the project applicant shall implement the plan.

Ongoing

The ODP will identify how the project complies with the Recycling Space Allocation Ordinance, (Chapter 17.118 of the Oakland Municipal Code), including capacity calculations, and specify the methods by which the development will meet the current diversion of solid waste generated by operation of the proposed project from landfill disposal in accordance with current City requirements. The proposed program shall be implemented and maintained for the duration of the

CONDITIONS OF APPROVAL

proposed activity or facility. Changes to the plan may be re-submitted to the Environmental Services Division of the Public Works Agency for review and approval. Any incentive programs shall remain fully operational as long as residents and businesses exist at the project site.

23. Lighting Plan***Prior to the issuance of an electrical or building permit***

The proposed lighting fixtures shall be adequately shielded to a point below the light bulb and reflector and that prevent unnecessary glare onto adjacent properties. Plans shall be submitted to the Planning and Zoning Division and the Electrical Services Division of the Public Works Agency for review and approval. All lighting shall be architecturally integrated into the site.

24. Archaeological Resources***Ongoing throughout demolition, grading, and/or construction***

- a) Pursuant to CEQA Guidelines section 15064.5 (f), "provisions for historical or unique archaeological resources accidentally discovered during construction" should be instituted. Therefore, in the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant and/or lead agency shall consult with a qualified archaeologist or paleontologist to assess the significance of the find. If any find is determined to be significant, representatives of the project proponent and/or lead agency and the qualified archaeologist would meet to determine the appropriate avoidance measures or other appropriate measure, with the ultimate determination to be made by the City of Oakland. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and a report prepared by the qualified archaeologist according to current professional standards.
- b) In considering any suggested measure proposed by the consulting archaeologist in order to mitigate impacts to historical resources or unique archaeological resources, the project applicant shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while measure for historical resources or unique archaeological resources is carried out.
- c) Should an archaeological artifact or feature be discovered on-site during project construction, all activities within a 50-foot radius of the find would be halted until the findings can be fully investigated by a qualified archaeologist to evaluate the find and assess the significance of the find according to the CEQA definition of a historical or unique archaeological resource. If the deposit is determined to be significant, the project applicant and the qualified archaeologist shall meet to determine the appropriate avoidance measures or other appropriate measure, subject to approval by the City of Oakland, which shall assure implementation of appropriate measure measures recommended by the archaeologist. Should archaeologically-significant materials be recovered, the qualified archaeologist shall recommend appropriate analysis and treatment, and shall prepare a report on the findings for submittal to the Northwest Information Center.

25. Erosion and Sedimentation Control Plan***CONDITIONS OF APPROVAL***

Prior to any grading activities

- a) The project applicant shall obtain a grading permit if required by the Oakland Grading Regulations pursuant to Section 15.04.660 of the Oakland Municipal Code. The grading permit application shall include an erosion and sedimentation control plan for review and approval by the Building Services Division. The erosion and sedimentation control plan shall include all necessary measures to be taken to prevent excessive stormwater runoff or carrying by stormwater runoff of solid materials on to lands of adjacent property owners, public streets, or to creeks as a result of conditions created by grading operations. The plan shall include, but not be limited to, such measures as short-term erosion control planting, waterproof slope covering, check dams, interceptor ditches, benches, storm drains, dissipation structures, diversion dikes, retarding berms and barriers, devices to trap, store and filter out sediment, and stormwater retention basins. Off-site work by the project applicant may be necessary. The project applicant shall obtain permission or easements necessary for off-site work. There shall be a clear notation that the plan is subject to changes as changing conditions occur. Calculations of anticipated stormwater runoff and sediment volumes shall be included, if required by the Director of Development or designee. The plan shall specify that, after construction is complete, the project applicant shall ensure that the storm drain system shall be inspected and that the project applicant shall clear the system of any debris or sediment.

Ongoing throughout grading and construction activities

- b) The project applicant shall implement the approved erosion and sedimentation plan. No grading shall occur during the wet weather season (October 15 through April 15) unless specifically authorized in writing by the Building Services Division.

SPECIFIC CONDITIONS

261. 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.

27. 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.

28. Antenna pole /pipe-mount and Compound Fence Camouflaging

Prior to a final inspection

Paint new and existing antennas and all associate facilities an appropriate dark forest green color to match the surrounding (evergreen) tree line. The color shall be shown on plans. The painted pole/pipe, fencing, and antennas shall be maintained in good condition and partially or wholly repainted at the Zoning Managers discretion or request.

29. Equipment Cabinet Shelter

Prior to a final inspection

CONDITIONS OF APPROVAL

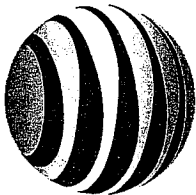
The equipment cabinet shelter shall be maintained in good condition and partially or wholly repainted (different colors) at the Zoning Managers discretion or request.

APPROVED BY:

City Planning Commission: _____ (October 5, 2011) _____ (vote)

CONDITIONS OF APPROVAL

ATTACHMENT C



at&t

CNU0491/CNU4423

LTE SITE: CCL00491

FA#: 10087915 USID: 12804

GOLF LINKS

3700 DORISA AVE
OAKLAND, CA 94605

TH
JORNIA

2000
1200'S

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE APPROVED AND 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 CONSIDERED TO CONTRADICT OR VIOLATE ANY CITY ORDINANCES OR STATE OR FEDERAL LAWS.

- 2010 CALIFORNIA ELECTION CODE
- 2010 CALIFORNIA BUILDING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 CALIFORNIA FIRE CODE
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA MECHANICAL CODE
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY/COUNTY ORDINANCES

HANDICAP REQUIREMENTS: FACILITY IS UNIMPAVED AND NOT FOR HUMAN HABITATION. UNIMPAVED ACCESS NOT REQUIRED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSIDERED TO CONTRADICT OR VIOLATE ANY CITY ORDINANCES OR STATE OR FEDERAL LAWS.

CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.

PROJECT TEAM

ENGINEER:
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1002 CONSUMERS BLVD.
LIVERMORE, CA 94550
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CONTACT: JACK KAMRIZ
PHONE: (925) 737-5500
FAX: (925) 737-5500
EMAIL: jack.kamriz@ericsson.com

PROJECT DESCRIPTION

THIS IS AN UNIMPAVED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION OF THE FOLLOWING:

- NEW THREE (3) EQUIPMENT CABINETS (ONE (1) BROADBAND EQUIPMENT CABINET AND TWO (2) PURCELL (EXTENDED) EQUIPMENT CABINETS (STACKED) INSIDE EXISTING EQUIPMENT ROOM.
- NEW ONE (1) LITE ANTENNA (TO REPLACE ONE (1) EXISTING ANTENNA) ON EXISTING POLE MOUNT.
- NEW TWO (2) RRU'S MOUNTED ON EXISTING ANTENNA MOUNT POLE.
- NEW ONE (1) 3" FIBER/POWER CONDUIT FROM MAIN UNIT TO FIBER/POWER DOME UNIT.
- NEW TWO (2) RET'S PER ANTENNA CONFIGURATION.
- NEW ONE (1) SURGE SUPPRESSION BOX (SCS-48-40-093).
- NEW ONE (1) FIBER/POWER BOX (FCB-100-100).
- NEW ONE (1) GPS ANTENNA MOUNTED ON TOP OF EQUIPMENT ROOM.

DRIVING DIRECTIONS

- FROM AT&T OFFICE - PLEASANTON, CA
- DEPART PLEASANTON ON I-580 WEST TOWARD SANTA RITA RD.
 - TURN LEFT ONTO SANTA RITA RD.
 - TAKE RAMP RIGHT FOR I-580 WEST/ARTHUR H BREED FWY
 - AT EXIT 21 TAKE RAMP RIGHT FOR GOLF LINKS RD TOWARD 98TH AVE
 - TURN RIGHT ONTO GOLF LINKS RD
 - AT EXIT 21 TAKE RAMP RIGHT FOR GOLF LINKS RD TOWARD 98TH AVE
 - BEAR RIGHT ONTO DORISA AVE
 - ARRIVE AT 3700 DORISA AVE, OAKLAND, CA 94605

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS.
FOR ALL WORK, VERIFY ALL PLANS AND EXISTING CONDITIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

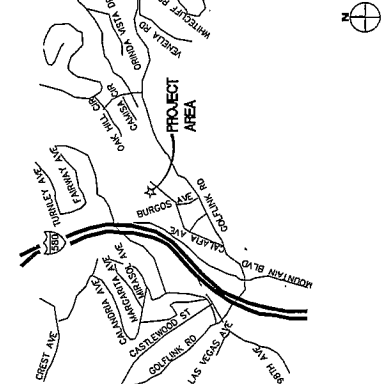
SHEET INDEX

SHEET	DESCRIPTION	REV.
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T-2	GENERAL NOTES, LEGEND AND ABBREVIATIONS	2
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A-2	ENLARGED SITE PLAN	2
A-3	EQUIPMENT LAYOUTS	2
A-4	ANTENNA PLANS	2
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APPROVALS

LANDLORD:	
CONSTRUCTION MANAGER:	
RF ENGINEER:	
SITE ACQUISITION MANAGER:	
ZONING MANAGER:	
UTILITY COORDINATOR:	
PROGRAM REGIONAL MANAGER:	
NETWORK OPERATIONS MANAGER:	

VICINITY MAP



PROJECT INFORMATION

SITE ADDRESS:
3700 DORISA AVE
OAKLAND, CA 94605

APN:
0434-4673-005-13 & 0434-4675-005-21

PROPERTY OWNER:
ROMAN CATHOLIC BISHOP OF OAKLAND

LONGITUDE:
122.14589° W (NAD 83)

GROUND ELEVATION:
±117' MSL

HEIGHT OF STRUCTURE:
±6' AGL

ZONING:
R-30

JURISDICTION:
CITY OF OAKLAND

TELEPHONE:
AT&T

POWER:
PG&E

APPLICANT/LESSEE:
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1002 CONSUMERS BLVD.
LIVERMORE, CA 94550
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FAX: (925) 998-5569
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FAX: (925) 737-5500
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CNU0491/CNU4423
LTE SITE: CCL00491
FA#: 10087915 USID: 12804
GOLF LINKS
3700 DORISA AVE
OAKLAND, CA 94605

CURRENT ISSUE DATE:
08/12/11

ISSUED FOR:
100% CONSTRUCTION
DRAWINGS

REV.	DATE	DESCRIPTION	BY
A	12/02/10	90% CONSTRUCTION DRAWING	JD
0	12/16/10	90% CONSTRUCTION DRAWING	JD
1	02/03/11	SAC COMMENTS	HT
2	08/12/11	PLANNING COMMENTS	HG

PLANS PREPARED BY:



CID CORPORATION
1000 CONSUMERS BLVD.
LIVERMORE, CA 94550
TEL: (925) 998-5568

CONSULTANT:



LYLE
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95070

DRAWN BY: CHK.
PP
SAS

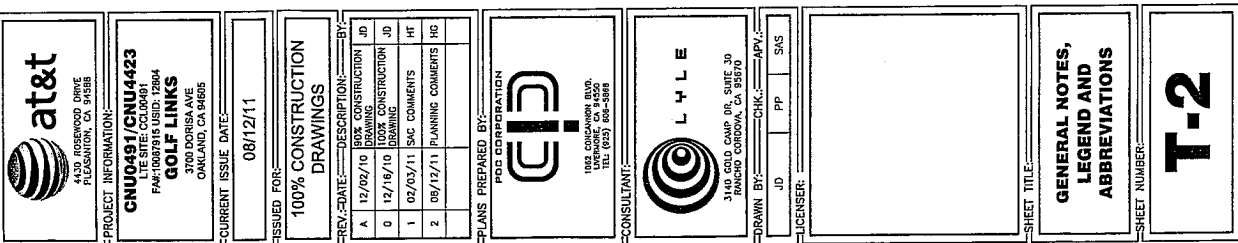
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SHEET TITLE:

**TITLE SHEET,
SITE INFORMATION
AND VICINITY MAP**

SHEET NUMBER:

T-1



at&t
1000 BROADWAY DRIVE
PULGASANO, CA 94388

PROJECT INFORMATION:
CNU0491/CHU4423
FLEET SITE CLOUDHUB
GOLF LINKS
OAKLAND, CA 94605

CURRENT ISSUE DATE:
08/12/11

ISSUED FOR:
100% CONSTRUCTION
DRAWINGS

REV. DATE: DESCRIPTION: BY:
A 12/02/10 100% CONSTRUCTION JD
0 12/16/10 100% CONSTRUCTION JD
1 02/03/11 100% COMMENTS HT
2 08/12/11 PLANNING COMMENTS HG

PLANS PREPARED BY:
PDC CORPORATION
1000 BROADWAY DRIVE
PULGASANO, CA 94388
TEL (925) 604-5888

CONSULTANT:
L Y L E
1000 BROADWAY DRIVE
PULGASANO, CA 94388
TEL (925) 604-5888

DRAWN BY: CHK: APP:
JD PP SAS

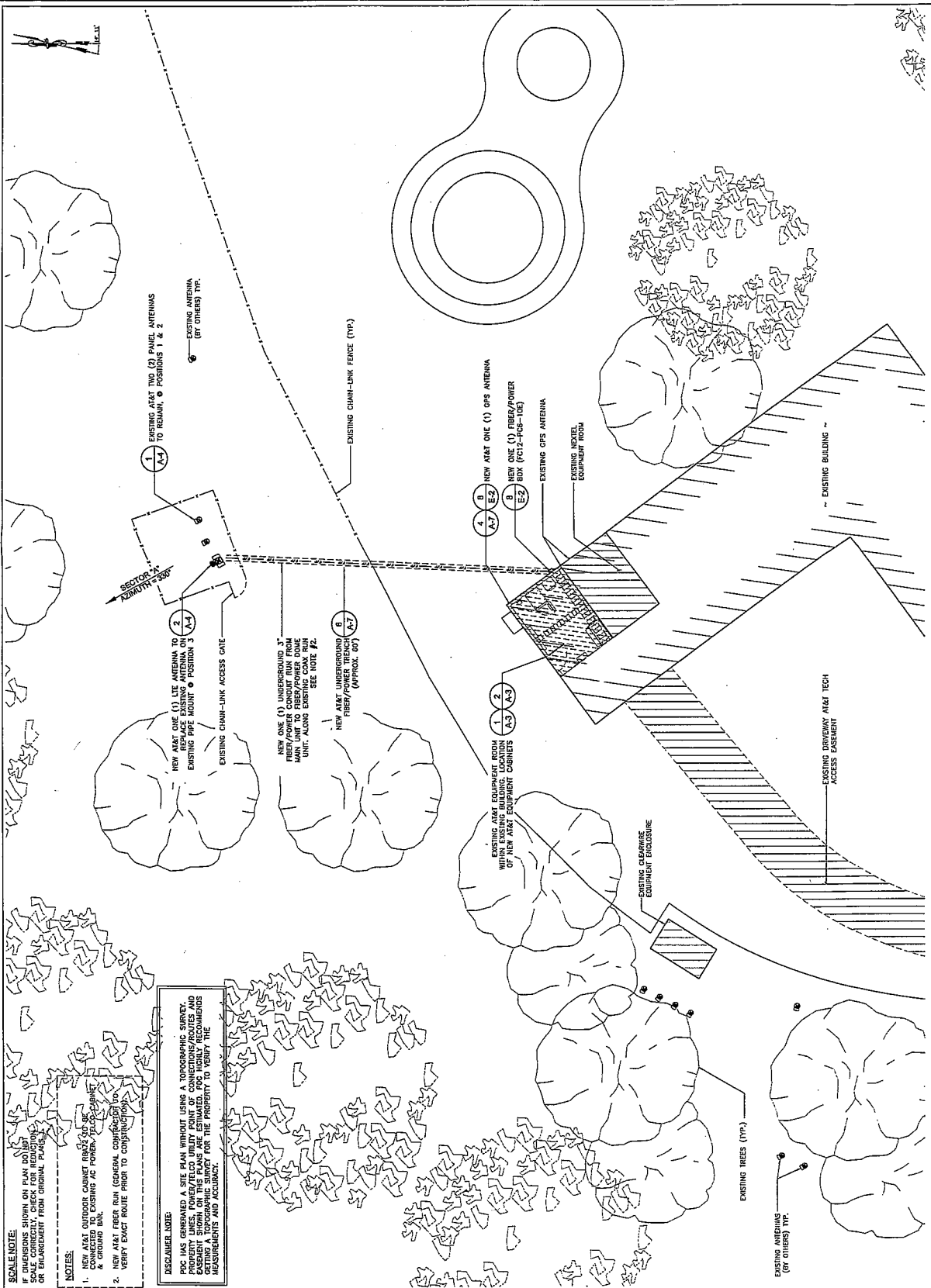
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SHEET TITLE:
GENERAL NOTES,
LEGEND AND
ABBREVIATIONS

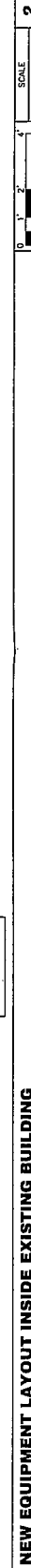
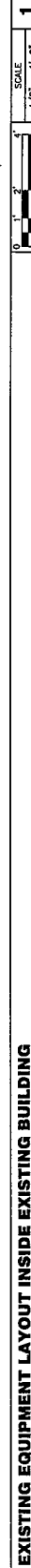
SHEET NUMBER:
T-2

<div><div><div>GENERAL CONSTRUCTION NOTES:</div><div>1. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY. 2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIMENSIONAL OUTLINE ONLY, UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE SHOWN ON THE DRAWINGS. 3. CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND CONFORMING TO THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. 4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS. 5. RECOMMENDATIONS UNLESS SPECIFICALLY NOTED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. 6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. 7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION UNDER THE CONTRACT. CONTRACTOR SHALL MAINTAIN CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE. 8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH ULL LISTED AND FIRE CODE APPROVED MATERIALS. 9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A1B/C WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION. 10. NOT USED. 11. 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. 12. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF ANY LINE OR POINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. 13. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, AND OTHER FEATURES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. 14. 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 STAINING OF ANY NATURE. 15. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERPROOF USING LIKE MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. 16. BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES. 17. CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE AND PAGER, AND KEEP SAME ON SITE. 18. WHICHEVER PERSONNEL ARE ON SITE, DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK. 19. 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 STAINING OF ANY NATURE. 20. CONTRACTOR SHALL PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION. 21. CONTRACTOR IS TO EXCAVATE 8" BELOW EXISTING GRADE AND SPRAY WITH NEED CONTROL. REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK, AS SPECIFIED ON SITE PLAN. 22. CONTRACTOR SHALL PROVIDE DRAINAGE FACILITY DURING ALL PHASES OF CONSTRUCTION. 23. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION OF THE WORK AFFECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.</div></div></div>		<div><div><div>GENERAL NOTES FOR EXISTING AWS CELL SITES</div><div>1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH EXISTING CONDITIONS AND TO OBTAIN ALL NECESSARY INFORMATION FROM THE OWNER'S REPRESENTATIVE. 2. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION. 3. THE EXISTING CELL SITE IS IN FULL COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ANY CONSTRUCTION WORK BY SUBCONTRACTOR WITHIN THE EXISTING CELL SITE SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN THE LATE AFTERNOON OR EARLY EVENING HOURS TO MINIMIZE DISRUPTION TO THE CELL SITE. SUBCONTRACTOR SHALL ADVISE THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION. 4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND EXISTING UTILITIES. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TIA CABLES, INCLUDING CABLES AS SHOWN ON THE DRAWINGS, PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION. PERSONNEL OF EXPOSURE MONITORS ARE ADVISED TO BE WORK TO BE ALERT OF ANY DANGEROUS EXPOSURE LEVELS. 5. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS CONDUIT, CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION. 6. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS CONDUIT, CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.</div></div></div>		<div><div><div>LEGEND</div><div>NEW ANTENNA EXISTING ANTENNA GROUND ROD GROUND BUS BAR MECHANICAL GROUND CONN. CABLED GROUND ACCESS WELL ELECTRIC BOX TELEPHONE BOX LIGHT POLE FIND MONUMENT SPOT ELEVATION SET POINT REVISION GRID REFERENCE DETAIL REFERENCE ELEVATION REFERENCE SECTION REFERENCE GROUT OR PLASTER (S) BRICK (U) MASONRY CONCRETE EARTH GRAVEL PLYWOOD WOOD CONT. WOOD BLOCKING STEEL CENTERLINE PROPERTY/LEASE LINE MATCH LINE WORK POINT GROUND CONDUIT TELEPHONE CONDUIT ELECTRICAL CONDUIT COAXIAL CABLE OVERHEAD SERVICE CHAIN LINK FENCING FIBER/POWER CONDUIT</div></div></div>		<div><div><div>ABBREVIATIONS</div><div>AB. ANTENNA AD. ANTENNA A.F. ANTENNA A.L. ANTENNA A.M. ANTENNA A.N. ANTENNA A.P. ANTENNA A.R. ANTENNA A.S. ANTENNA A.T. ANTENNA A.U. ANTENNA A.V. ANTENNA A.W. ANTENNA A.X. ANTENNA A.Y. ANTENNA A.Z. ANTENNA A.1. ANTENNA A.2. ANTENNA A.3. ANTENNA A.4. ANTENNA A.5. ANTENNA A.6. ANTENNA A.7. ANTENNA A.8. ANTENNA A.9. ANTENNA A.10. ANTENNA A.11. ANTENNA A.12. ANTENNA A.13. ANTENNA A.14. ANTENNA A.15. ANTENNA A.16. ANTENNA A.17. ANTENNA A.18. ANTENNA A.19. ANTENNA A.20. ANTENNA A.21. ANTENNA A.22. ANTENNA A.23. ANTENNA A.24. ANTENNA A.25. ANTENNA A.26. ANTENNA A.27. ANTENNA A.28. ANTENNA A.29. ANTENNA A.30. ANTENNA A.31. ANTENNA A.32. ANTENNA A.33. ANTENNA A.34. ANTENNA A.35. ANTENNA A.36. ANTENNA A.37. ANTENNA A.38. ANTENNA A.39. 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DATE:	DESCRIPTION:
2/02/10	90% CONSTRUCTION DRAWING
2/16/10	100% CONSTRUCTION DRAWING
02/03/11	SAC COMMENTS
08/12/11	PLANNING COMMENTS



ENLARGED SITE PLAN





PROJECT INFORMATION:
CNU0491/CNU4423
11500 COLUMBIA DRIVE
FAX: 1087855 L85D: 12854
GOLF LINKS
3100 DORSA AVE
OAKLAND, CA 94605

CURRENT ISSUE DATE:
08/12/11

ISSUED FOR:
100% CONSTRUCTION
DRAWINGS

REV.	DATE	DESCRIPTION	BY
A	12/02/10	50% CONSTRUCTION	JD
B	12/16/10	100% CONSTRUCTION	JD
1	02/03/11	SAC COMMENTS	HT
2	09/12/11	PLANNING COMMENTS	HG

PLANS PREPARED BY:
PDG CORPORATION



CONSULTANT:



3140 GOLD CAMP DR, SUITE 300
RANCHO CORDOVA, CA 95670

DRAWN BY: **CHK.**

PP

SAS

LICENSER:

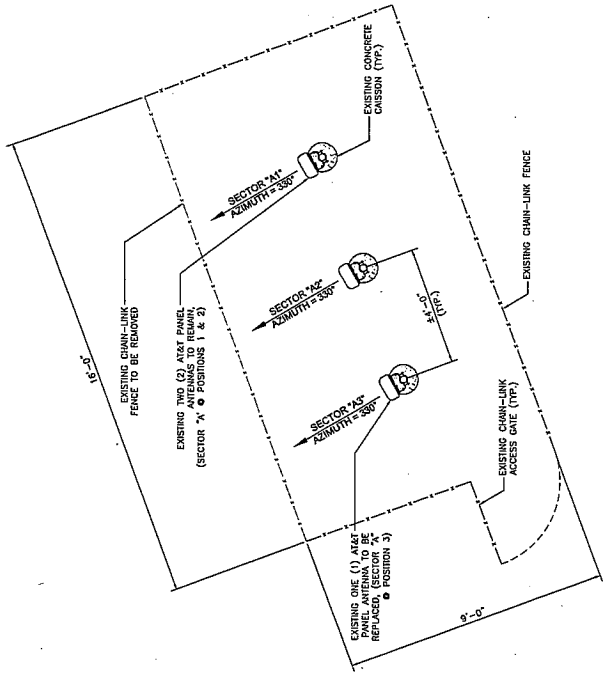
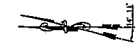
SHEET TITLE:

ANTENNA PLANS

SHEET NUMBER:

A-4

- NOTE:
1. ANTENNA CONFIGURATIONS BASED ON 97DS
REVISION 8.4 DATED 08-10-2010.
 2. NEW ANTENNA DIMENSION: 8" x 12" x 8"



EXISTING ANTENNA PLAN ON HILL SIDE

SCALE
1/2" = 1'-0"

1

NEW ANTENNA PLAN ON HILL SIDE

SCALE
1/2" = 1'-0"

2



PROJECT INFORMATION:
CNUR491/CNUR4423
PACIFIC POWER & LIGHT
11000 LEE STREET, SUITE 200
GOLF LINKS
3700 DORRIS AVE
OAKLAND, CA 94605

CURRENT ISSUE DATE: 08/12/11

ISSUED FOR:
**100% CONSTRUCTION
DRAWINGS**

REV.	DATE	DESCRIPTION	BY
A	12/02/10	100% CONSTRUCTION DRAWING	JD
0	12/16/10	100% CONSTRUCTION DRAWING	JD
1	02/03/11	SAC COMMENTS	HT
2	08/12/11	PLANNING COMMENTS	HC

PLANS PREPARED BY:
PDG CORPORATION

1002 CONCOMEN BLDG.
UNIVERSITY AVENUE, SUITE 300
SAN FRANCISCO, CA 94102
TEL: (415) 860-3600

CONSULTANT:
LYLE

3140 GOLD CAMP DR, SUITE 300
RANCHO CORDOVA, CA 95670
TEL: (916) 800-3600

DRAWN BY: **JD**
PP: **PP**
SAS: **SAS**
CHK: **CHK**
APV: **APV**

LICENSER:

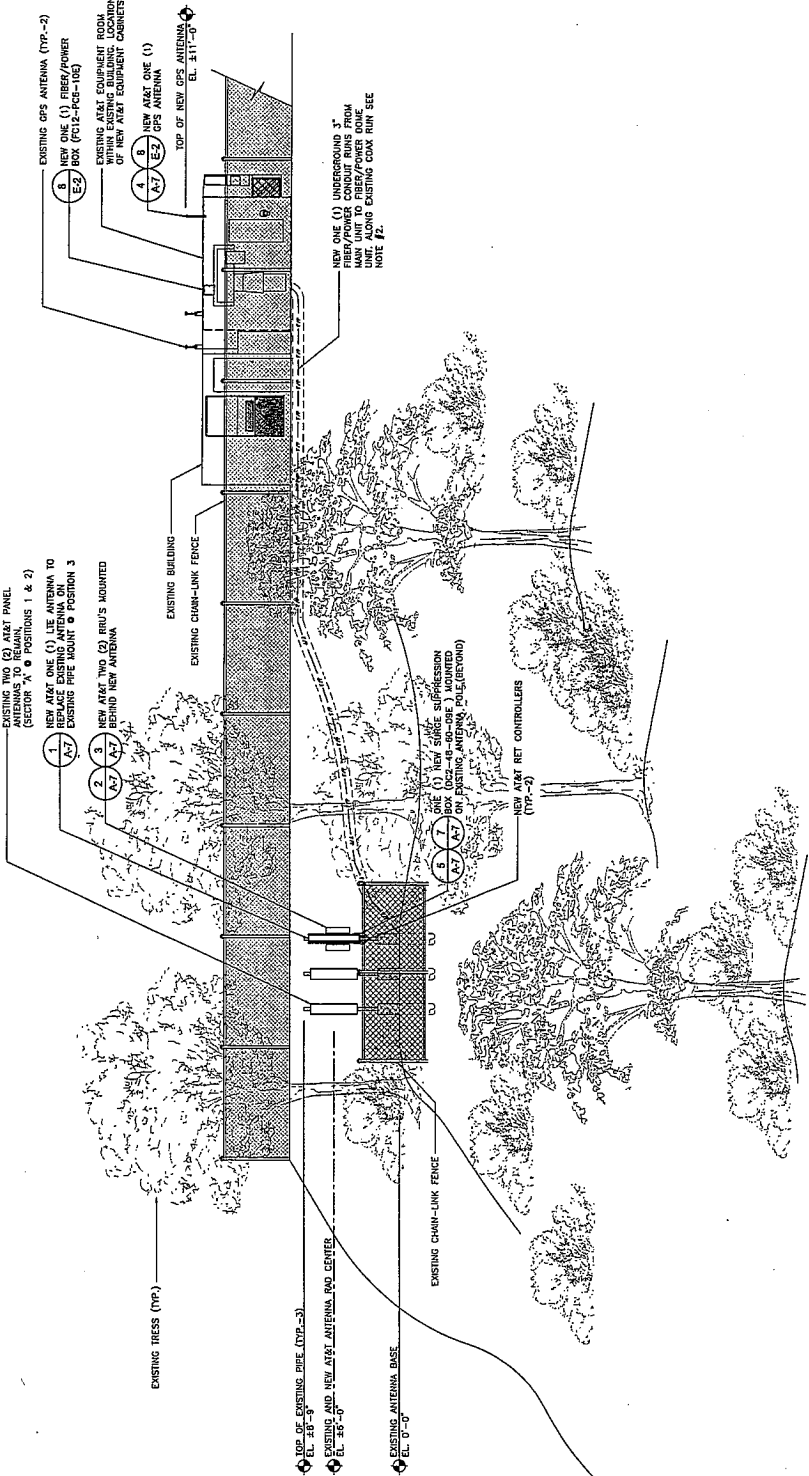
SHEET TITLE:
NORTH ELEVATION

SHEET NUMBER:
A-5

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT
CONFORM TO THE DIMENSIONS SHOWN ON
THE ELEVATION, THE DIMENSIONS ON
THE ELEVATION SHALL CONTROL.

DISCLAIMER NOTE:

PDG GENERATED THESE ELEVATIONS WITHOUT USING A TOPOGRAPHIC SURVEY.
BUILDING STRUCTURE AND POLE HEIGHTS SHOWN ON THE PLANS ARE
BASED ON THE DIMENSIONS PROVIDED BY THE CLIENT. PDG MAKES NO
WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE DIMENSIONS
OR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.



NORTH ELEVATION

0 3' 10' 15' SCALE 3/16\"/>

1



4430 ROSENOW DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

GNU0491/CNU4423
LTE SITE CCL00491
FAA: 1007915 USDC 12004
GOLF LINKS
3700 DORRISA AVE
OAKLAND, CA 94605

CURRENT ISSUE DATE:

08/12/11

ISSUED FOR:

100% CONSTRUCTION

DRAWINGS

REV. DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
A	12/02/10	100% CONSTRUCTION	JD
D	12/16/10	100% CONSTRUCTION	JD
1	02/03/11	100% CONSTRUCTION	HT
2	08/12/11	100% CONSTRUCTION	HT

PLANS PREPARED BY:

POD CORPORATION

1682 CONCOMEN BLVD.
SAN JOSE, CA 95128
TEL: (408) 604-5555

CONSULTANT:



1682 CONCOMEN BLVD.
SAN JOSE, CA 95128
TEL: (408) 604-5555

APPROVED BY:

CHK.:

PP

S/S

LICENSER:

SHEET TITLE:

GROUNDING NOTES

AND DETAILS

SHEET NUMBER:

E-2

<p>1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE COPPER WIRE UNLESS OTHERWISE NOTED.</p> <p>3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.</p> <p>4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.</p> <p>5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 8" MINIMUM BELOW THE FLOOR LINE.</p> <p>6. INSTALL GROUND CONDUCTORS AND GROUND RODS IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS, SPREAD FOOTING, OR FENCE.</p> <p>7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.</p> <p>8. GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR ELECTRICAL CONNECTIONS. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT. C. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT. D. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT.</p> <p>9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.</p> <p>10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.</p> <p>11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).</p>	<p>GROUNDING NOTES</p>	<p>1</p>
<p>12. IF EQUIPMENT IS IN A CELL FENCE ENCLOSURE, GROUNDING SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>13. GROUNDING OF PFC CABINET SHALL BE VERTICALLY INSTALLED.</p> <p>14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED TO THE EQUIPMENT GROUND BUS BAR.</p> <p>15. ALL EXISTING RUNS SHALL BE GROUNDING AND HAVE A BUSHING, NO PFC ABOVE GROUND.</p> <p>16. USE SEPARATE HOLES FOR GROUNDING & BUSH BAR. NO "DOUBLING-UP" OF HOLES.</p> <p>17. POWER AND TELCO CABS: SHALL BE GROUNDING (BUSHING) TOGETHER.</p> <p>18. NO "LUGS" ALLOWED ON GROUNDING RUNS.</p>	<p>2</p>	<p>3</p>
<p>GROUNDING OF TOWER</p> <p>1. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>2. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>3. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>4. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>5. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>6. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>7. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>8. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>9. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>10. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>11. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>12. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>13. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>14. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>15. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>16. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>17. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>18. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>19. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>20. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p>	<p>4</p>	<p>5</p>
<p>MECHANICAL CONNECTIONS</p> <p>1. HAD GROUND SHALL BE #2 AWG STRANDED GREEN COPPER WIRE.</p> <p>2. VERTICAL DROPS SHALL BE #2 AWG STRANDED GREEN COPPER WIRE.</p> <p>3. ALL BENDS SHALL MAINTAIN A MINIMUM 6" BEND RADIUS.</p> <p>4. APPLY ANTI-OXIDATION COMPOUND TO ALL CONNECTIONS.</p> <p>5. 1 1/2" SCH. 40 PFC CAST AT A 45° ANGLE.</p> <p>6. ALL GROUNDING WIRES FOR HVAC GRILLS, BOXES, DOORS, CABLE TRAYS, ETC., SHALL BE #6 AWG GREEN STRANDED COPPER WIRE AND A 2-HOLE LUG.</p> <p>7. BARE COPPER CONDUCTORS SHALL NOT BE IN CONTACT WITH ANY DISSIMILAR MATERIAL. PLACE ON SHROUDS IF NECESSARY TO ALLOW FOR PROPER ISOLATION.</p> <p>8. ALL GROUNDING CONDUCTORS SHALL BE METAL. AS AVAILABLE, THE SHORTEST PRACTICAL ROUTE SHALL BE USED. IF ELEVATION PLAN CONFLICTS, PLANS ARE SOMETIMES UNCLEAR DUE TO SCALE.</p> <p>9. ALL CONNECTIONS TO GROUND BARS SHALL BE WITH A 2-HOLE LUG, UNO.</p> <p>10. ALL SOLID WIRE SHALL USE A 2-HOLE LONG-SHRELL LUG.</p> <p>11. WHEN GROUNDING MORE THAN ONE PIECE OF EQUIPMENT, DO NOT USE THE EQUIPMENT AS A GROUNDING CONDUCTOR.</p> <p>12. REMOVE ALL PAINT INSIDE THE SURFACE OF GROUND LUGS.</p> <p>13. REMOVE ALL PAINT INSIDE THE SURFACE OF GROUND LUGS.</p> <p>14. GROUNDING WIRES CONNECTING TO THE BUILD SHALL CONNECT IN THE SHORTEST DIRECTION TO THE MAIN GROUND BAR.</p> <p>15. INSTALL GROUND BAR UNDER INSTALLED COAX. ALL WIRING AT GROUND BAR IS TYPICAL FOR ALL LOCATIONS.</p>	<p>6</p>	<p>7</p>
<p>GROUNDING OF TOWER</p> <p>1. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>2. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>3. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>4. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>5. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>6. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>7. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>8. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>9. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>10. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>11. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>12. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>13. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>14. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>15. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>16. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>17. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>18. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>19. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p> <p>20. GROUNDING OF TOWER SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS TO THE CONDITIONS.</p>	<p>7</p>	<p>8</p>
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Existing



Proposed



view from Trinity Oaks Way looking southeast at site

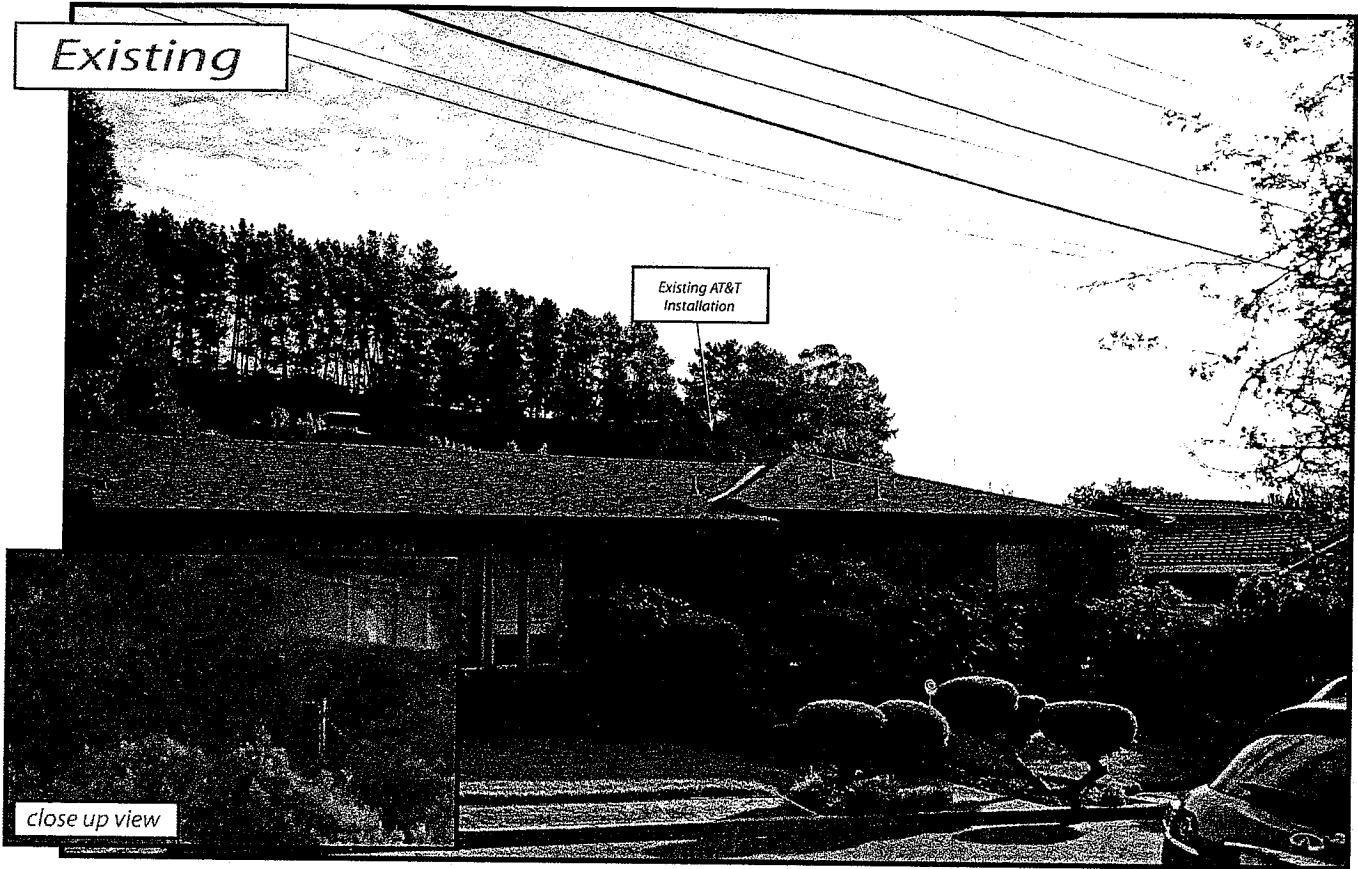


AT&T Wireless

CNU0491 Golf Links
3700 Dorisa Avenue, Oakland, CA

ATTACHMENT D

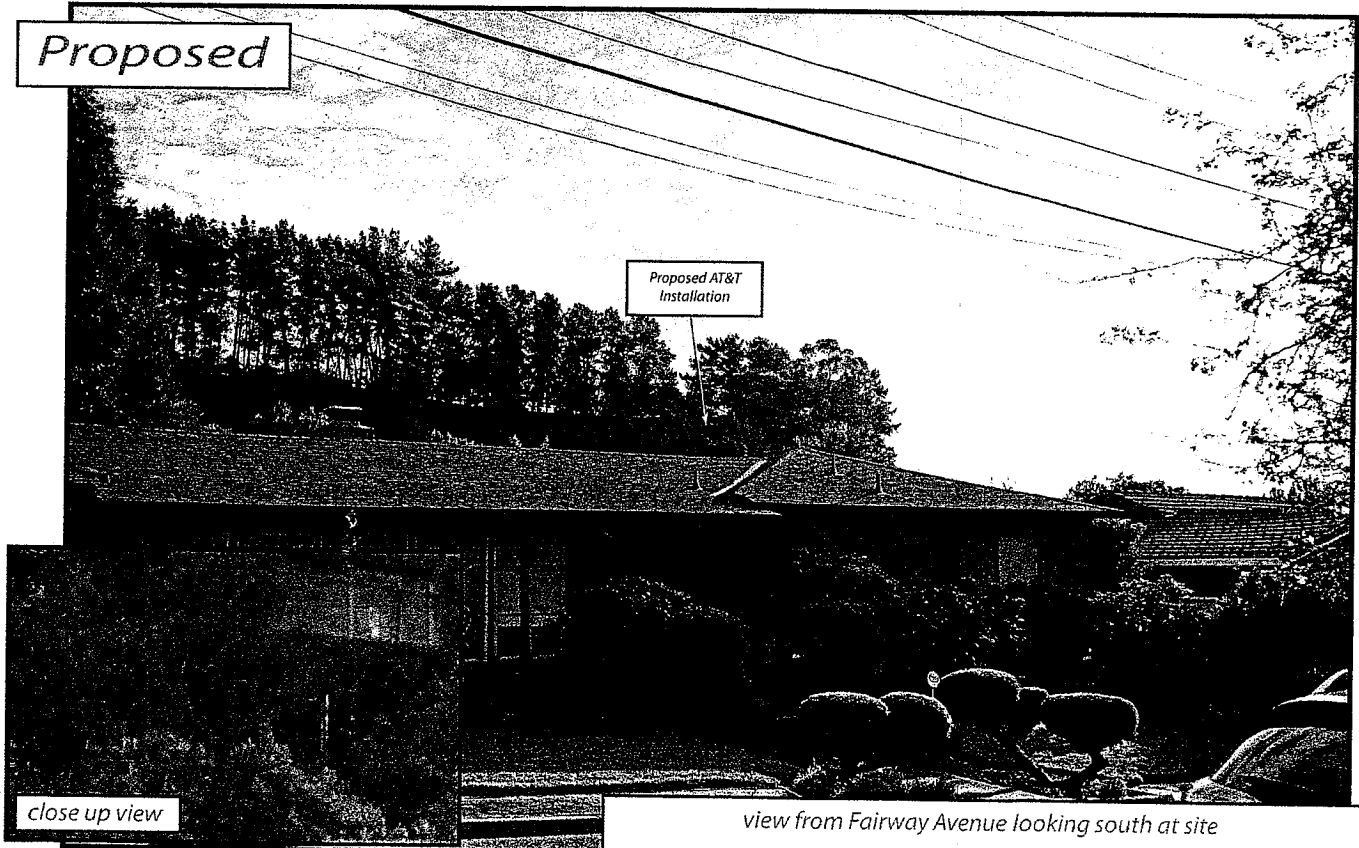
Existing



Existing AT&T
Installation

close up view

Proposed



Proposed AT&T
Installation

close up view

view from Fairway Avenue looking south at site

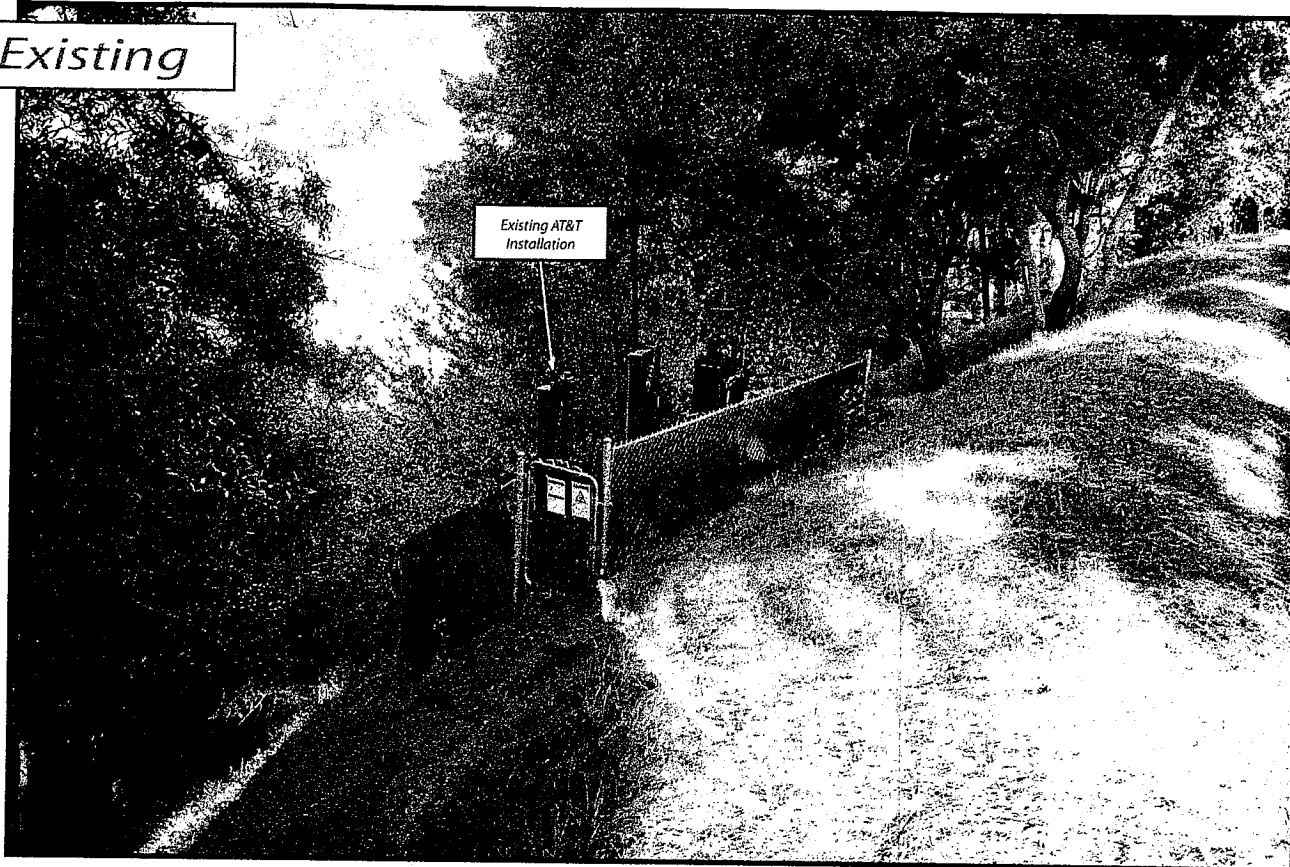
AdvanceSim
Photo Simulation Solutions
Contact (525) 262-8507



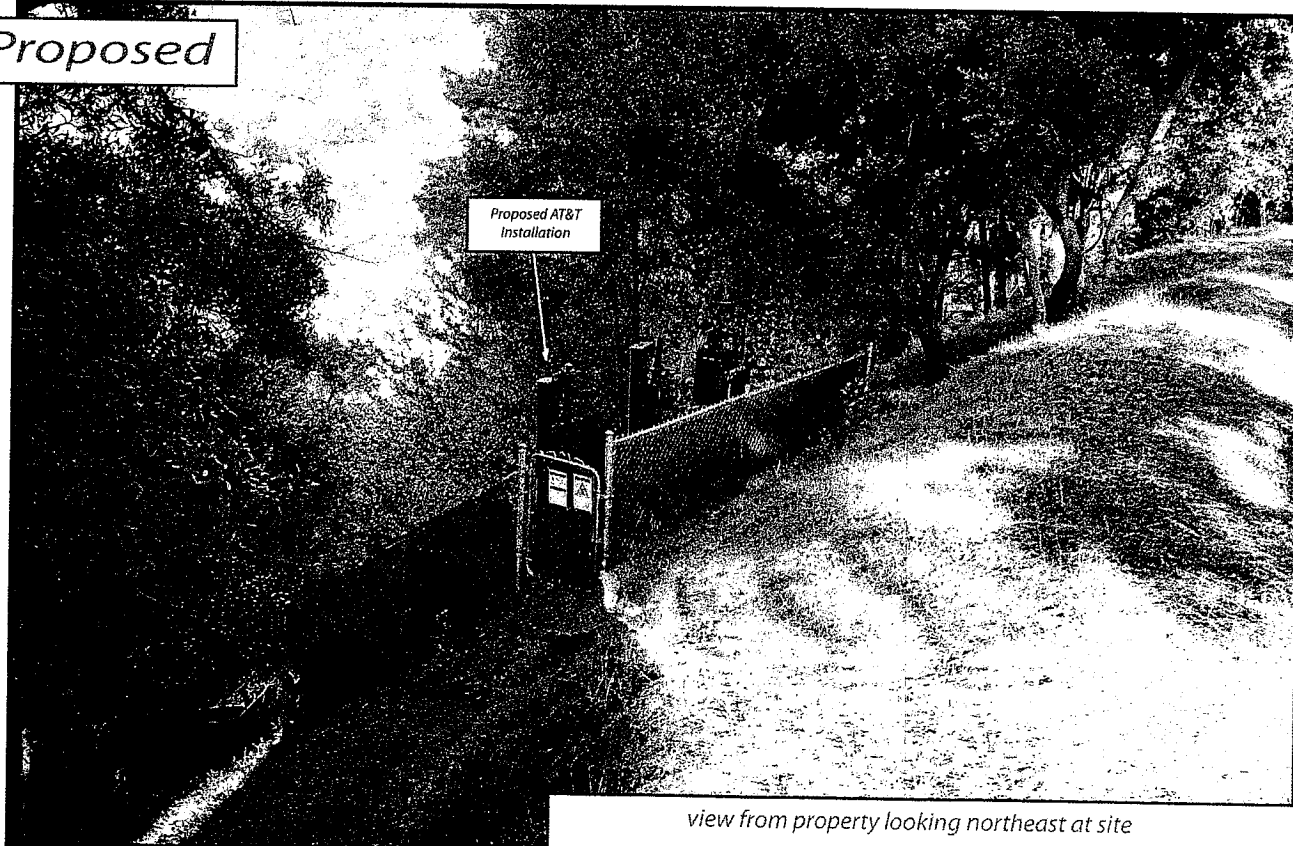
AT&T Wireless

CNU0491 Golf Links
3700 Dorisa Avenue, Oakland, CA

Existing



Proposed



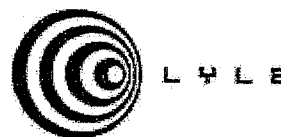
view from property looking northeast at site

AdvanceSim
 FLOW SIMULATION SOLUTIONS
 CONTACT: 525-1202-8507



AT&T Wireless

CNU0491 Golf Links
 3700 Dorisa Avenue, Oakland, CA



August 16, 2011

City of Oakland CEDA
250 Frank Ogawa Plaza
Oakland CA 94612

RE: **3700 Dorisa Ave. ATT Site Name: GOLF LINKS Site Number: CNU0491**
EMF Study Executive Study and Alternative Design/ Site Analysis

Dear Mr. Hackett:

EMF Study Summary: The EMF report prepared by EBI Consulting dated May 20, 2011, recommended that the existing screen fence be extended 10 feet to meet FCC public exposure thresholds. This fencing extension is reflected on the plans.

Alternative Site/ Design Analysis: As mentioned on the scope of work, the project would involve the replacement of three existing antennas with three new antennas. As this site does not involve collocation of new antennas, the project complies with the site preferences of the City Code in proposed to modify existing installations. As shown on the coverage maps the existing installation would provide needed coverage in the project area due to the topography of the site and surrounding areas.

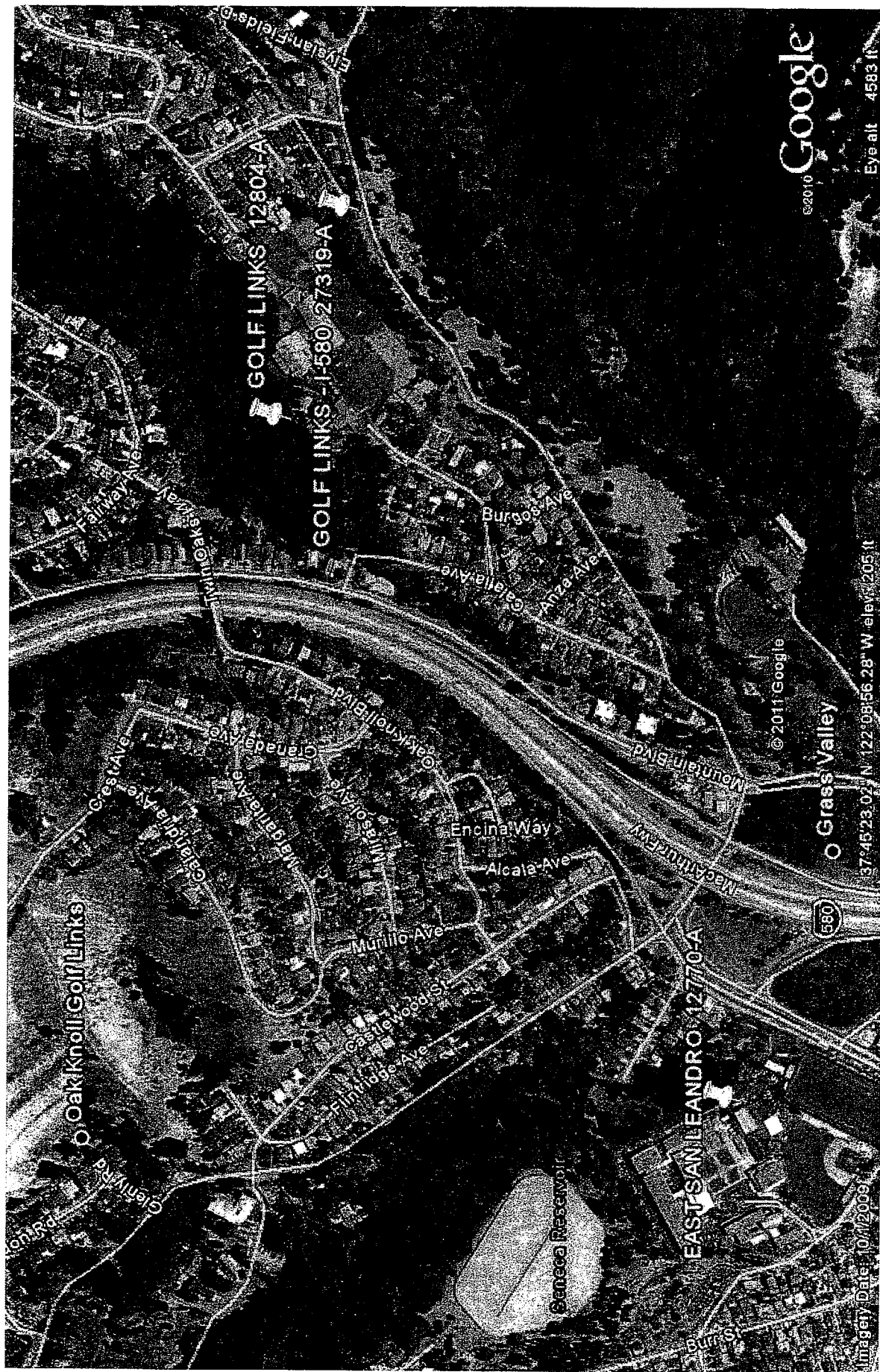
If you have any questions please call me at (916) 868-6673 or via email at JFong@Lyleco.com.

Sincerely,

Jonathan Fong

Jonathan Fong
Lyle Company Authorized Agent for ATT Mobility

ATTACHMENT E



Google

©2010

Eye alt 4583 ft

© 2011 Google

Grass Valley

37°45'23.02" N 122°08'56.28" W elev. 205 ft

Imagery Date: 10/1/2009

GOLF LINKS 12804-A

GOLF LINKS -I-580-27319-A

EAST SAN LEANDRO 12770-A

Seneca Reservoir

Oak Knoll Golf Links

Prepared for:
AT&T Mobility, LLC
c/o The Lyle Company
3140 Gold Camp Drive Suite
30
Rancho Cordova, CA 95670



USID# 12804
Site No. CNU049I
Golf Links
3700 Dorisa Avenue
Oakland, California 94605
Alameda County
37.757760; -122.145690 NAD83

EBI Project No. 62101848
May 20, 2011



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2.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS	3
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APPENDICES

Appendix A	Personnel Certifications
Appendix B	Antenna Inventory
Appendix C	RoofView® Export File
Appendix D	RoofView® Graphic
Appendix E	Compliance/Signage Plan

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by AT&T Mobility, LLC to conduct radio frequency electromagnetic (RF-EME) modeling for AT&T Site CNU0491 located at 3700 Dorisa Avenue in Oakland, California to determine RF-EME exposure levels from proposed AT&T wireless communications equipment at this site. As described in greater detail in Section 2.0 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, including the following:

- Antenna Inventory
- Site Plan with antenna locations
- Antenna inventory with relevant parameters for theoretical modeling
- Graphical representation of theoretical MPE fields based on modeling
- Graphical representation of recommended signage and/or barriers

This document addresses the compliance of AT&T's transmitting facilities independently and in relation to all collocated facilities at the site.

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.

As presented in the sections below, based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 10 feet of AT&T's proposed antennas at the ground. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 2 feet of AT&T's proposed antennas at the ground.

AT&T Recommended Signage/Compliance Plan

AT&T's RF Exposure Policy guidance, dated March 31, 2009, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Site compliance recommendations have been developed based upon protocols presented in AT&T's RF Exposure Policy guidance document, dated March 31, 2009, additional guidance provided by AT&T, EBI's understanding of FCC and OSHA requirements, and common industry practice. Barrier locations have been identified (when required) based on guidance presented in AT&T's RF Exposure Policy guidance document, dated March 31, 2009. The following signage is recommended at this site:

- Green INFO 1 sign posted at the base of each pole.
- Yellow CAUTION sign posted at the base of each pole.

The signage proposed for installation at this site complies with AT&T's RF Exposure Policy and therefore complies with FCC and OSHA requirements. Barriers are not recommended for this site. More detailed information concerning site compliance recommendations is presented in Section 5.0 and Appendix E of this report.

1.0 SITE DESCRIPTION

This project involves the proposed installation of up to three (2) wireless telecommunication antennas on a pole in Oakland, California. There are one sector (A) proposed at the site. The current plans for the site include three (3) proposed antennas in the Sector, a total of three (3) antennas to be installed on the site. One antenna transmitting in the UMTS 850, and two bands of UMTS 1900 frequencies. One antenna will be transmitting in the LTE 700 and LTE AWS 1710 frequencies. The remaining antenna is assumed to be transmitting in the GSM 850 and GSM 1900 frequencies. The Sector A antennas will be oriented 330° from true north. The bottoms of the GSM and UMTS antennas will be 3.85 feet above ground level. The bottom of the LTE antenna will be 3.7 feet above ground level. Appendix B presents an antenna inventory for the site.

Access to this site is accomplished by walking up to the ground area around the poles. As such, the general public is able to access the poles.

2.0 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.

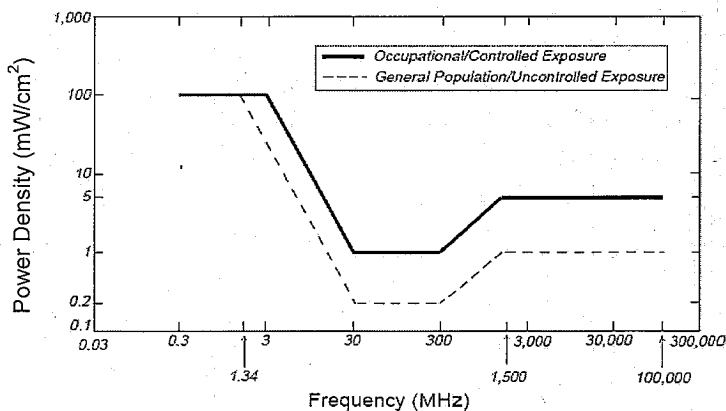
The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the AT&T equipment operating at 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². These limits are considered protective of these populations.

Table 1: 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/cm ²)	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

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
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 AT&T in this area operate within a frequency range of 850-1900 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.

3.0 AT&T RF EXPOSURE POLICY REQUIREMENTS

AT&T's RF Exposure Policy guidance, dated March 31, 2009, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Pursuant to this guidance, worst-case predictive modeling was performed for the site. This modeling is described below in Section 4.0. Lastly, based on the modeling and survey data, EBI has produced a Compliance Plan for this site that outlines the recommended signage and barriers. The recommended Compliance Plan for this site is described in Section 5.0.

4.0 WORST-CASE PREDICTIVE MODELING

In accordance with AT&T's RF Exposure policy, EBI performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by AT&T, and compared the resultant worst-case MPE levels to the FCC's occupational/controlled exposure limits outlined in OET Bulletin 65. The assumptions used in the modeling are based upon information provided by AT&T, and information gathered from other sources. There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 10 feet of AT&T's Sector A antennas on the ground. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 2 feet of AT&T's Sector A antennas on the ground. At the nearest walking/working surfaces to the AT&T antennas, the maximum power density generated by the AT&T antennas is approximately 933.30 percent of the FCC's general public limit (186.66 percent of the FCC's occupational limit).



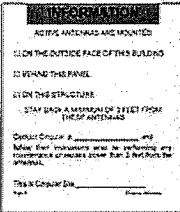

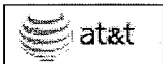


The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix D. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.

5.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. As presented in the AT&T guidance document, the signs must:

- Be posted at a conspicuous point;
- Be posted at the appropriate locations;
- Be readily visible; and
- Make the reader aware of the potential risks prior to entering the affected area.

The table below presents the signs that may be used for AT&T installations.

Informational Signs		Alerting Signs	
	INFO 1		NOTICE
	INFO 2		CAUTION
	INFO 3		WARNING
	INFO 4		

Based upon protocols presented in AT&T's RF Exposure Policy guidance document, dated March 31, 2009, and additional guidance provided by AT&T, the following signage is recommended on the site:

Recommended Signage:

- Green INFO I sign posted at the base of each pole.
- Yellow CAUTION sign posted at the base of each pole.

Additional barriers are not necessary at this site because existing fencing behind the antennas and a steep slope in front of them are adequate to prevent access to the antennas. Barriers may consist of rope, chain, fencing, or painted/taped stripes. The signage and any barriers are graphically represented in the Signage Plan presented in Appendix E.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed AT&T telecommunications equipment at the site located at 3700 Dorisa Avenue in Oakland, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from AT&T antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements, as well as AT&T's corporate RF safety policies. 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 10 feet of AT&T's proposed antennas at the ground. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 2 feet of AT&T's proposed antennas at the ground.

Signage is recommended at the site as presented in Section 5.0 and Appendix E. Posting of the signage brings the site into compliance with FCC rules and regulations and AT&T's corporate RF safety policies.

7.0 LIMITATIONS

This report was prepared for the use of AT&T Mobility, LLC. 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.

Appendix A

Certifications

Reviewed and Approved by:



H. Stockinger

Herbert J. Stockinger, PE
Senior Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Stephanie Penta, 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 been trained in on the procedures outlined in AT&T's RF Exposure Policy guidance (dated 3/31/09) and on RF-EME modeling using RoofView® modeling software.
- 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.

Stephanie Penta

Appendix B

Antenna Inventory

Antenna Number	Operator	Antenna Type	TX Freq (MHz)	ERP (Watts)	Gain (dBi)	Model	Azimuth (deg.)	Length (ft)	Horizontal Beamwidth (Deg.)	X	Y	Z
ATT A1	AT&T	Panel	GSM 850	500	11.85	Kathrein 742-264	330	4.3	68	30	30	3.85
ATT A1	AT&T	Panel	GSM 1900	500	14.65	Kathrein 742-264	330	4.3	65	30	30	3.85
ATT A2	AT&T	Panel	UMTS 850	250	11.85	Kathrein 742-264	330	4.3	68	26	30	3.85
ATT A2	AT&T	Panel	UMTS 1900	250	14.65	Kathrein 742-264	330	4.3	65	26	30	3.85
ATT A2	AT&T	Panel	UMTS 1900	250	14.65	Kathrein 742-264	330	4.3	65	26	30	3.85
ATT A3	AT&T	Panel	LTE 700	307	12.25	Kathrein 800-10764 K	330	4.6	68	22	31	3.7
ATT A3	AT&T	Panel	LTE AWS 1710	599	15.15	Kathrein 800-10764 K	330	4.6	61	22	31	3.7

I. Note that EBI uses an assumed set of antenna specifications and powers for unknown and other carrier antennas for modeling purposes.

Appendix C

Roofview® Export File

Map, Settings, Antenna, and Symbol Data Table .. Exported from workbook -> Roof View RF Template_ATT Compo
Done on 1/27/2011 at 11:09:17 AM.

Use this format to prepare other data sets for the RoofView workbook file.

You may use as many rows in this TOP header as you wish.

The critical point are the cells in COLUMN ONE that read 'Start...' (eg. StartMapDefinition)
if used, these (4) headers are required to be spelled exactly, as one word (eg. StartMapDefinition)

The very next row will be considered the start of that data block.

The first row of the data block can be a header (as shown below), but this is optional.

When building a text file for import, Add the Map info first, then the Antenna data, followed by the symbol data.

All rows above the first marker line 'Start...' will be ignored, no matter how many there are.

This area is for you use for documentation.

End of help comments.

You can place as much text here as you wish as long as you don't place it below

the Start Map Definition row below the blue line.

You may insert more rows using the Insert menu.

Should you need additional lines to document your project, simply insert additional rows

by highlighting the row number adjacent to the blue line below and then clicking on the Insert menu

and selecting rows.

StartMapDefinition

Roof Max X Map Max Y Map Max X Y Offset X Offset Number of envelope
120 100 180 120 20 20 1 \$AES81:SD \$AES81:SDZ5200

StartSettingsData

Standard Method Uptime Scale Factor Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method
4 2 1 1 100 1 500 4 5000 1.5 1

StartAntennaData

ID	Name	Freq (MHz)	Trans Power	Count	Len	Coax Type	Coax	Other Loss	Input Power	Calc Power	Mfg	Model	X (ft)	Y (ft)	Z (ft)	Type	Aper (ft)	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
ATT A1	GSM	850	13.38918	4						53.55671	Kathrein	742-264	30	30	30	3.85		4.3	11.85	68:330	ON
ATT A1	GSM	1900	7.02674	4						28.10696	Kathrein	742-264	30	30	30	3.85		4.3	14.65	65:330	ON
ATT A2	UMTS	850	26.77835	1						26.77835	Kathrein	742-264	26	26	30	3.85		4.3	11.85	68:330	ON
ATT A2	UMTS	1900	14.05348	1						14.05348	Kathrein	742-264	26	26	30	3.85		4.3	14.65	65:330	ON
ATT A2	UMTS	1900	14.05348	1						14.05348	Kathrein	742-264	26	26	30	3.85		4.3	14.65	65:330	ON
ATT A3	LTE	700	30	1									22	22	31	3.7		4.6	12.25	68:330	ON
ATT A3	LTE AWS	1710	30	1									22	22	31	3.7		4.6	15.15	61:330	ON

StartSymbolData

Map Mark: Roof X Roof Y Map Label Description (notes for this table only)

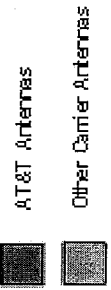
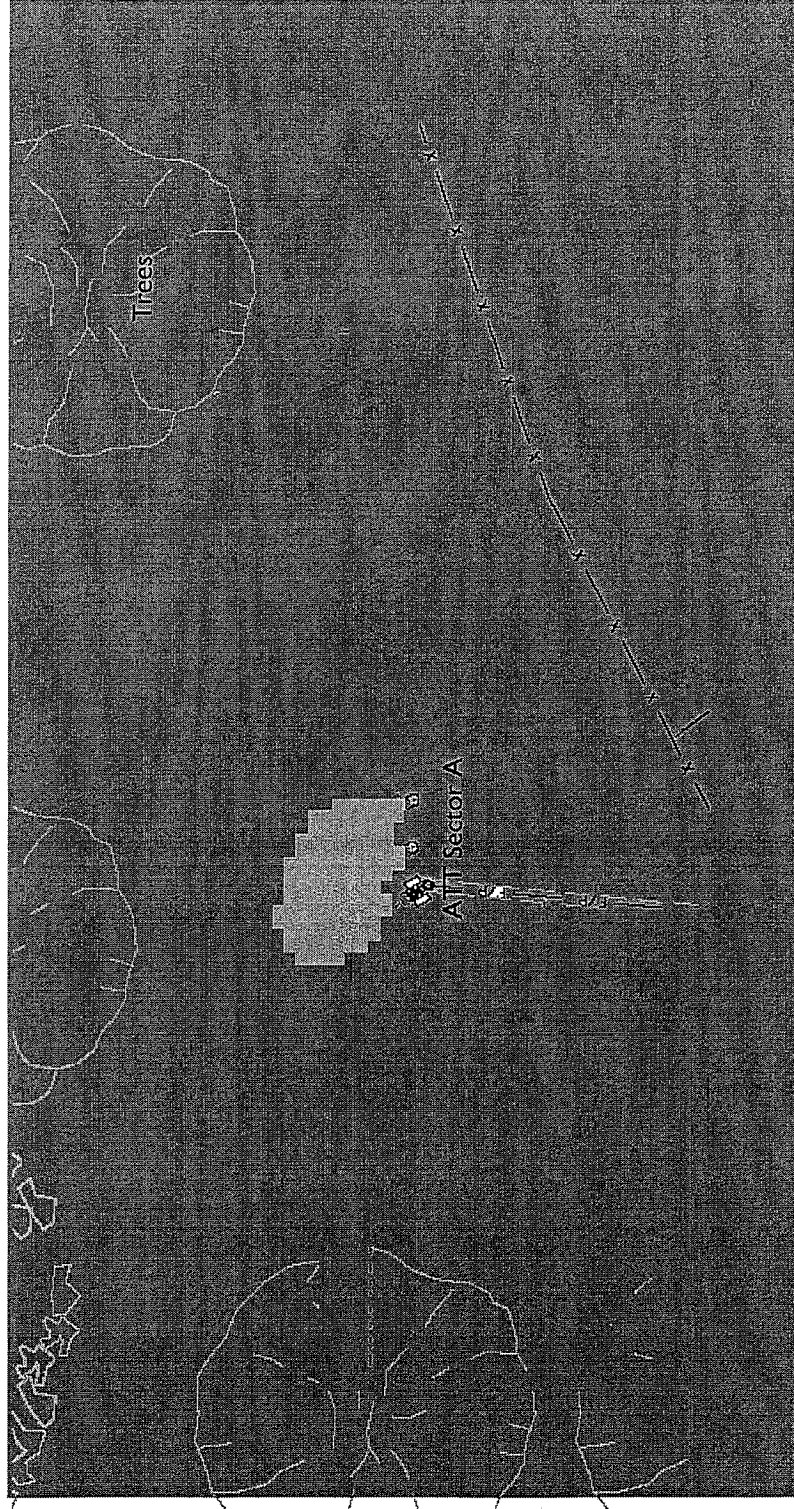
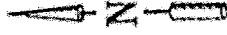
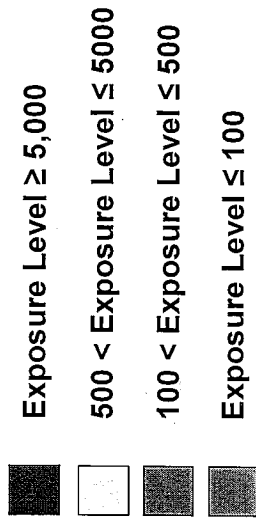
Sym	5	35	AC Unit	Sample symbols
Sym	14	5	Roof Access	
Sym	45	5	AC Unit	
Sym	45	20	Ladder	

List Of Area
\$AES81:SD

Appendix D

Roofview ® Graphics

% of FCC Public Exposure Limit





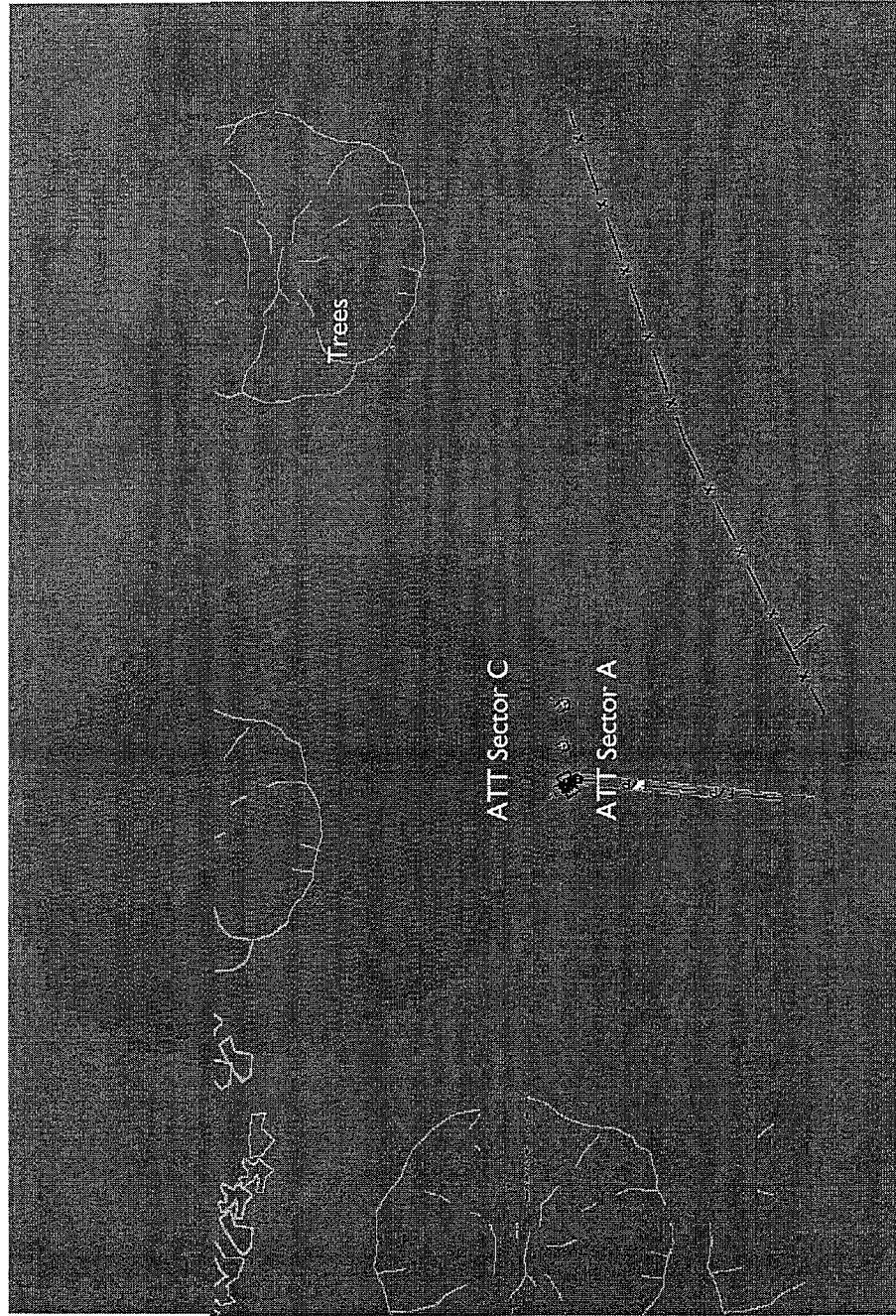
Roofview: Composite Exposure Levels
 Facility Operator: AT&T Mobility
 Site Name: Golf Links



AT&T Site Number: CNU0491
 USID Number: 12804
 Report Date: 01-27-11



% of FCC Public Exposure Limit

-  Exposure Level >5
-  Exposure Level ≤ 5



-  AT&T Antennas
-  Other Carrier Antennas

Roofview: AT&T Exposure Levels

Facility Operator: AT&T Mobility

Site Name: Golf Links

AT&T Site Number: CNU0491

USID Number: 12804

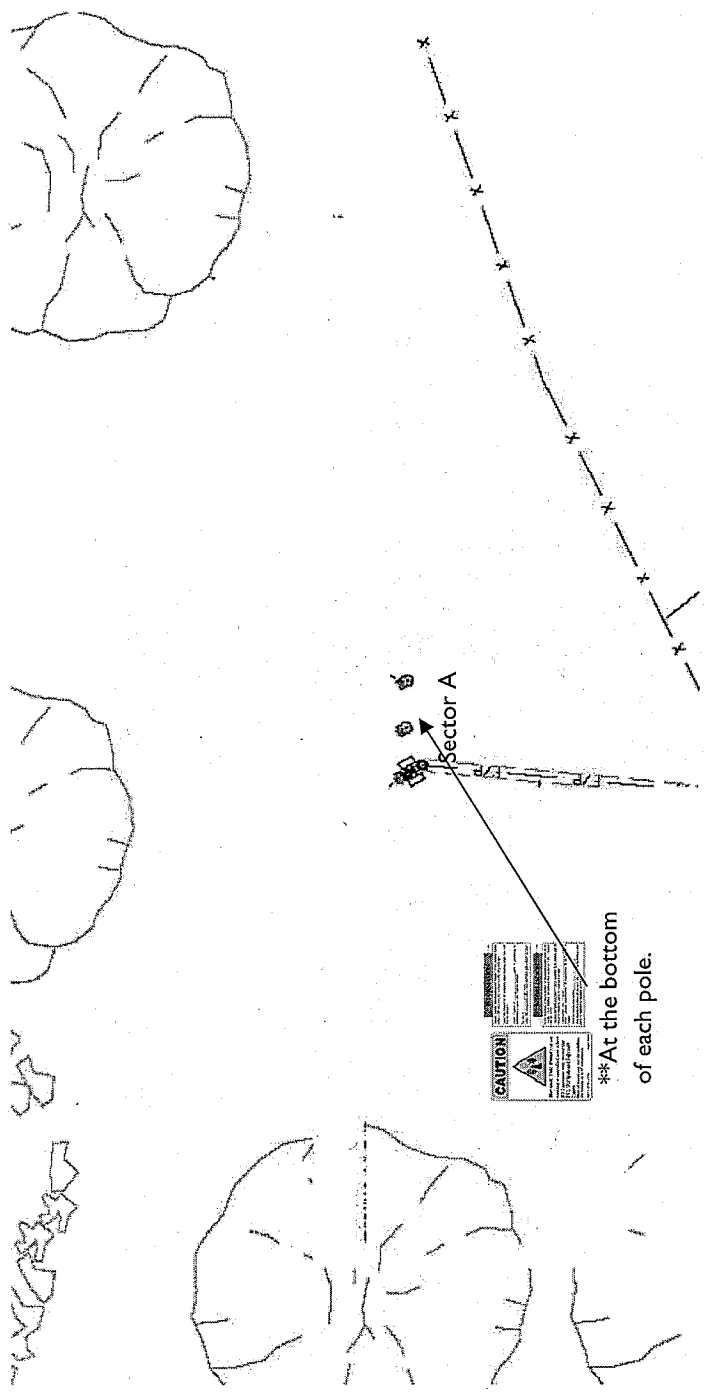
Report Date: 01-27-11



Appendix E

Compliance/Signage Plan

- AT&T Antennas
- Other Carrier Antennas



Sign Identification Legend	
	Denotes AT&T Informational Sign 1
	Denotes AT&T Informational Sign 2
	Denotes AT&T Informational Sign 3
	Denotes AT&T Informational Sign 4
	Denotes AT&T NOTICE Sign
	Denotes AT&T CAUTION Sign
	Denotes AT&T WARNING Sign