Oakland City Planning Commission STAFF REPORT

Case File Number CMD10343 **March 2, 2011**

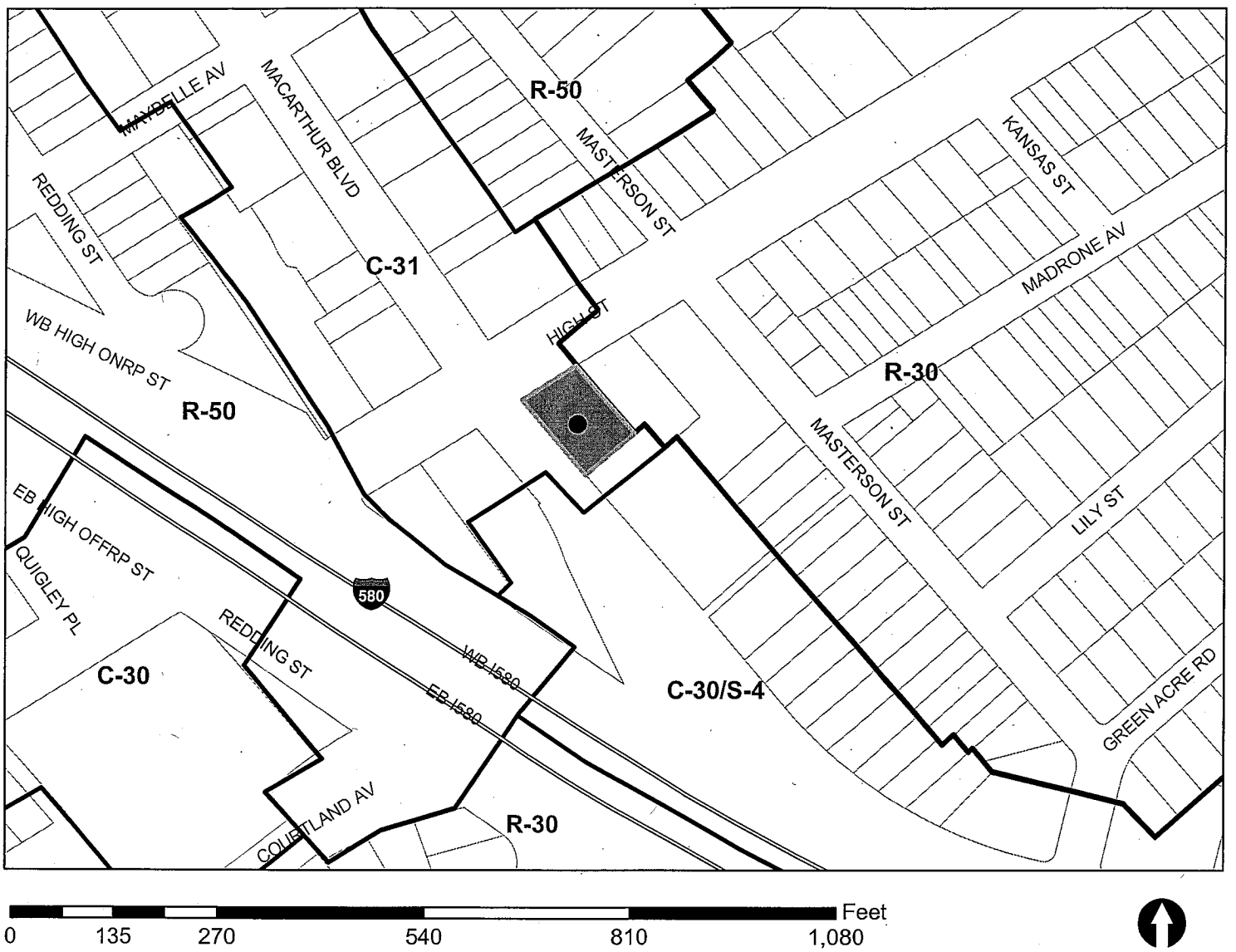
Location:	**4300 MacArthur Blvd.**
Assessor's Parcel Number:	**030 -1982-118-01**
Proposal:	To modify a telecommunications facility located within and to the rear of a decorative tower at a commercial center. The facility consists of 8 antennas attached inside the tower and the proposal is to replace 2 antennas and add an additional new antenna to total 9 antennas; changes to rooftop equipment cabinets located to the rear of the tower are also proposed.
Applicant / Phone Number:	John Yu/Lyle Co. (for AT&T) (916)801-6112
Owner:	K & K Investments II LLC
Planning Permits Required:	Major Conditional Use Permit with additional Macro telecom findings (OMC Sec. 17.48.060(B), 17.128.070(C), 17.134.020(A)(3)(i)); Regular Design Review with additional Macro telecom findings (OMC Sec. 17.48.020, 17.128.070(B), 17.136.040(A)(10))
General Plan:	Neighborhood Center Mixed Use
Zoning:	C-31 Special Retail Commercial Zone
Environmental Determination:	Exempt, Section 15301 of the State CEQA Guidelines: Existing Facilities; Section 15183 of the State CEQA Guidelines: Project consistent with a Community Plan, General Plan or Zoning
Historic Status:	Unknown
Service Delivery District:	IV
City Council District:	4 - Schaaf
Date Filed:	December 21, 2010
Staff Recommendation:	Approve with conditions
Finality of Decision:	*Appealable to City Council within 10 days*
For Further Information:	Contact case planner **Aubrey Rose, Planner II** at **(510) 238-2071** or arose@oaklandnet.com

SUMMARY

The applicant Mr. John Yu of the Lyle Company (for AT&T) on behalf of the property owner K & K Investments II LLC requests Planning Commission approval of a Major Conditional Use Permit and Regular Design Review each with additional findings to modify a telecommunications facility located within and to the rear of a decorative tower located at a commercial center. The facility consists of eight (8) antennas concealed within the tower and the proposal is to replace two (2) antennas and add one (1) additional new antenna to total nine (9) antennas; changes to rooftop equipment cabinets located behind the tower are also proposed.

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

CITY OF OAKLAND PLANNING COMMISSION



Case File: CMD10-343
Applicant: John Yu/Lyle Co. (for AT&T)
Address: 4300 MacArthur Boulevard
Zone: C-31

PROPERTY DESCRIPTION

The property is a corner lot fronting MacArthur Boulevard at High Street. It contains a small commercial center with a corner parking lot and a one-story building set back from parking. The building contains a 44-foot tower. The center hosts a wireless telecommunications facility (approved in 2002) consisting of eight antennas concealed within the tower and four rooftop equipment cabinets with no enclosure located to the rear of the tower. Cabinets are visible from private property and the public right-of-way in the residential zone to the rear of the site. The facility takes advantage of the tower's height, lack of obstruction, and opportunities for concealment of equipment. Some litter exists along the side property lines. Landscaped planters contain some additional room. The commercial tenant beneath the tower is a tax preparation service. The center also contains a sandwich shop, pizza parlor, and dry cleaners. The site is located on a slight slope running uphill to the east. The MacArthur Boulevard corridor is commercial; the property to the rear fronting High Street is residential. The 580 freeway is situated approximately 250-feet to the west of the site.

PROJECT DESCRIPTION

The proposal is to modify the telecommunications facility by replacing two (2) antennas and adding one (1) additional new antenna to total nine (9) antennas. Related equipment that would also be attached to the inside of the tower include six (6) RRU antennas, six (6) RET antennas, and one fiber dome/power unit. Two (2) equipment cabinets would be replaced with three (3) new cabinets to total five (5). One (1) GPS unit would be attached to one of the new cabinets. One (1) 3-inch conduit (power cable) would be attached to the building. The equipment cabinet area is addressed in the KEY ISSUES AND IMPACTS section of this report.

GENERAL PLAN ANALYSIS

The site is located in a Neighborhood Center Mixed Use area of the General Plan. The intent of the area is: "*To identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office active open space, eating and drinking places, personal and business services, and smaller scale education, cultural, or entertainment uses.* Given advancing technologies, enhanced service at this location would assist users in the commercial and adjacent residential zones and the development, as conditioned, would be entirely concealed at an existing telecommunications site. Staff therefore finds the proposal to be in conformance with the General Plan.

ZONING ANALYSIS

The project requires a Major Conditional Use Permit and a Regular Design Review (non-residential) each with additional telecommunications findings because it features the expansion of a wireless telecommunications facility located within 100-feet of a residential zone. The review ensures the expanded facility would not generate negative aesthetic impacts to the neighborhood. The property is located in the C-31 Special Retail Commercial Zone. The intent of the C-31 Zone is: "*to create, preserve, and enhance areas with a wide range of retail establishments serving both short and long term needs in attractive settings oriented to pedestrian comparison shopping, and is typically appropriate along important shopping streets having a special or particularly pleasant character.*" Given advancing technologies, enhanced service at this location would assist users in the commercial and adjacent residential zones and

the development would be entirely concealed at an existing telecommunications site. **Under the Telecommunications Act of 1996, the Federal Communications Commission (FCC) preempted cities' zoning jurisdiction over wireless telecommunications facilities, limiting their authority to aesthetic review and confirmation of satisfactory radio frequency (RF) emissions reports. For further information the FCC can be contacted at 1-888-225-5322 or www.fcc.gov** The proposal meets the Telecommunications Regulations for Site Location and Design Preferences, for locating on a building with an existing wireless telecommunications facility where antennas and equipment cabinets, as conditioned, would be concealed and not visible from the public right-of-way. Site alternatives and design analyses are therefore not required. A satisfactory emissions (RF) report has been submitted. Staff finds the proposal to be consistent with the Planning Code.

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 modify a telecommunications facility consisting of eight antennas by replacing two antennas and adding an additional new antenna to total nine antennas, and changes to equipment cabinets, meets this description: the project would constitute a minor addition, only. The project is therefore exempt from environmental review.

KEY ISSUES AND IMPACTS

The new antennas would not be visible from the public right-of-way or otherwise. However, existing and equipment cabinets mounted on a rooftop behind the tower are not enclosed, and an enclosure is not proposed. For safety and potential aesthetic purposes, recommended conditions of approval attached to this report stipulate a proposed cabinet be relocated to eliminate creation of a profile above a pitched roofline and that all cabinets be enclosed. Additionally, existing and new conduits (power cables) as should be repainted to match building color. Finally, litter at and adjacent to the site should be removed, and landscaped planters should be improved. With these conditions, staff supports the proposal.

RECOMMENDATIONS:

1. Affirm staff's environmental determination.
2. Approve the Major Conditional Use Permit and Regular Design Review subject to the attached Findings, two (2) sets of Additional Findings for Telecommunications Facilities, and Conditions.

Prepared by:

Aubrey Rose

AUBREY ROSE
Planner II

Approved by:

Scott Miller

SCOTT MILLER
Zoning Manager
Community and Economic Development Agency

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
D. Applicant's Photo-Simulations

Attachment A: Findings for Approval

This proposal meets the required findings under Conditional Use Permit Procedure/General Use Permit Criteria (OMC Sec. 17.134.050), Telecommunications Regulations/Conditional Use Permit Criteria for Macro Facilities (OMC Sec. 17.128.080(C)), Design Review Procedure/Regular Design Review Criteria (OMC Sec. 17.136.040(B)) and Telecommunications Regulations/Design Review Criteria for Macro Facilities (OMC Sec. 17.128.080(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.

GENERAL USE PERMIT CRITERA (OMC SEC. 17.134.050)

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 project requires a Major Conditional Use Permit with additional telecommunications findings because it features the expansion of a wireless telecommunications facility located within 100-feet of a residential zone. The review ensures the expanded facility will not generate negative impacts to the neighborhood. The property is located in the C-31 Special Retail Commercial Zone. The intent of the C-31 Zone is: "*to create, preserve, and enhance areas with a wide range of retail establishments serving both short and long term needs in attractive settings oriented to pedestrian comparison shopping, and is typically appropriate along important shopping streets having a special or particularly pleasant character.*" Given advancing technologies, enhanced service at this location will assist users in the commercial and adjacent residential zones and the development, as conditioned, will be entirely concealed at an existing telecommunications site. The proposal meets the Telecommunications Regulations for Site Location and Design Preferences, for locating on a building with an existing wireless telecommunications facility where antennas and equipment cabinets, as conditioned, will be concealed and not visible from the public right-of-way. Site alternatives and design analyses are therefore not required. A satisfactory emissions (RF) report has been submitted. Staff finds the proposal to be consistent with the Planning Code.

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 antennas will be concealed and not visible from the public right-of-way. Attached conditions of approval ensure equipment cabinet will be concealed within a new enclosure.

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 project will enhance an essential civic service.

D. That the proposal conforms to all applicable regular design review criteria set forth in the regular design review procedure at Section 17.136.050

This finding is met as described in a following section of this attachment.

E. For proposals involving a One- or Two-Family Residential Facility: If the conditional use permit concerns a regulation governing maximum height, minimum yards, or maximum lot coverage or building length along side lot lines, the proposal also conforms with at least one of the following criteria:
1. The proposal when viewed in its entirety will not adversely impact abutting residences to the side, rear, or directly across the street with respect to solar access, view blockage and privacy to a degree greater than that which would be possible if the residence were built according to the applicable regulation, and, for conditional use permits that allow height increases, the proposal provides detailing, articulation or other design treatments that mitigate any bulk created by the additional height; or
2. At least sixty (60) percent of the lots in the immediate context are already developed and the proposal would not exceed the corresponding as-built condition on these lots, and, for conditional use permits that allow height increases, the proposal provides detailing, articulation or other design treatments that mitigate any bulk created by the additional height. The immediate context shall consist of the five (5) closest lots on each side of the project site plus the ten (10) closest lots on the opposite side of the street; however, the Director of City Planning may make an alternative determination of immediate context based on specific site conditions. Such determination shall be in writing and included as part of any decision on any conditional use permit.

The project does not involve a single-family home or duplex.

F. That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable guidelines or criteria, district plan or development control map which has been adopted by the Planning Commission or City Council.

The site is located in a Neighborhood Center Mixed Use area of the General Plan. The intent of the area is: "*To identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office active open space, eating and drinking places, personal and business services, and smaller scale education, cultural, or entertainment uses.* Given advancing technologies, enhanced service at this location will assist users in the commercial and adjacent residential zones and the development, as conditioned, will be entirely concealed at an existing telecommunications site. Telecommunications falls under the Use Classification of "Essential Service Civic Activity" in the Planning Code. The proposal will enhance an essential service while ensuring the facility is concealed. The project therefore conforms to the area's intent and to the following Objective of the LUTE:
CIVIC AND INSTITUTIONAL USES.

> Objective N2
> Encourage adequate civic, institutional, and educational facilities located within Oakland, appropriately designed and sited to serve the community.

Staff finds the proposal to be in conformance with the General Plan.

<u>CONDITIONAL USE PERMIT CRITERIA FOR MACRO FACILITIES (OMC SEC. 17.128.080(C))</u>
1. The project must meet the special design review criteria listed in subsection B of this section.

This finding is met in the following section of the Attachment.

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

The antennas and equipment cabinets will be concealed.

REGULAR DESIGN REVIEW CRITERIA - NONRESIDENTIAL (OMC SEC. 17.136.050(B))

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

The proposal requires a Regular Design Review (non-residential) with additional findings to expand a telecommunications facility located within 100-feet of a residential zone. The review ensures the expanded facility will not generate negative aesthetic impacts to the neighborhood. The new antennas would not be visible from the public right-of-way or otherwise. For safety and potential aesthetic purposes, recommended conditions of approval attached to this report stipulate a proposed cabinet be relocated to eliminated creation of a profile above a pitched roofline and that all cabinets be enclosed; existing and new conduits (power cables) should be repainted to match building color; litter at and adjacent to the site should be removed, and landscaped planters should be improved.

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

The design will be concealed and therefore will not detract from the aesthetic quality of surrounding urban form.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.

The proposed design conforms to the General Plan as described in a previous section of this Attachment.

DESIGN REVIEW CRITERIA FOR MACRO FACILITIES (OMC SEC. 17.128.080(B))

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

Antennas will be concealed inside of a decorative tower.

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

Antennas will be concealed within a structure.

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

Antennas will be concealed within a structure.

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

Existing and new equipment cabinets will be concealed within a new rooftop shelter behind a tower and pitched roof.

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

Rooftop equipment shelters shall be concealed in an enclosure behind a tower and pitched roof.

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

No antennas will be attached to a roof.

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.

Antennas and equipment cabinets will be housed in above-ground enclosures.

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 and the plans submitted to the City **on December 21, 2010 (application) and December 15, 2010 (plans)**, 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 require prior written approval from the Director of City Planning or designee.

   b) This action by the **Planning Commission** ("this Approval") includes the approvals set forth below. This Approval includes **modifications to a Macro wireless telecommunications facility consisting of 8 concealed antennas and four unconcealed equipment cabinets by replacing two antennas and adding one to total nine and by replacing two cabinets with three to total five and to conceal equipment cabinets in a shelter**

2. **Effective Date, Expiration, Extensions and Extinguishment**
   Ongoing
   Unless a different termination date is prescribed, this Approval shall expire **two (2) 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, elevated walking pathways, safety railings, emergency access and lighting.

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) Violation of any term, **Conditions of Approval** or **project description** relating to the **Conditions of Approval** 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 of approval** if it is found that there is violation of any of the **Conditions of Approval** 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 of Approval**
   A copy of the approval letter and **Conditions of Approval** shall be signed by the property owner, notarized, and submitted with each set of permit plans to the appropriate City agency for this project.

7. **Indemnification**
   Ongoing
   a. To the maximum extent permitted by law, the applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the City of Oakland Redevelopment Agency, the Oakland City Planning Commission and its respective agents, officers, and employees (hereafter collectively called City) from any liability, damages, claim, judgment, loss (direct or indirect)action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul, (1) an approval by the City relating to a development-related application or subdivision or (2) implementation of an approved development-related project. The City may elect, in its sole discretion, to participate in the defense of said Action and the applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.

   b. Within ten (10) calendar days of the filing of any Action as specified in subsection A above, the applicant shall execute a Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Letter of Agreement shall survive termination, extinguishment or invalidation of the approval. Failure to timely execute the Letter of Agreement does not relieve the applicant of any of the obligations contained in this condition or other requirements or Conditions of Approval that may be imposed by the City.

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

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

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

11. **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 (*see also condition #30*).

PROJECT SPECIFIC CONDITIONS FOR TELECOMMUNICATIONS FACILITIES

12. **Sinking Fund For Facility Removal Or Abandonment**
    Prior to the issuance of building permit.
    The applicant shall provide proof of the establishment of a sinking fund to cover the cost of removing the facility if it is abandoned within a prescribed period. The word "abandoned" shall mean a facility that has not been operational for a six (6) month period, except where non-operation is the result of maintenance of renovation activity pursuant to valid City permits. The sinking fund shall be established to cover a two-year period, at a financial institution approved by the City's Office of Budget and Finance. The sinking fund payment shall be determined by the Office of Budget and Finance and shall be adequate to defray expenses associated with the removal of the telecommunication facility.

13. **Emissions Report**
    Prior to a final inspection
    The applicant shall provide an RF emissions report to the City of Oakland Zoning Division 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.

14. **Graffiti**
    Prior to an inspection and ongoing
    Any graffiti on site shall be painted to match building color and site shall be maintained free of graffiti

15. **Signage**
    Prior to final inspection
    Any obsolete or nonconforming signage at the site shall be removed.

16. **Litter**
    Prior to final inspection and ongoing
    Litter at and adjacent to the site shall be removed and the site and adjacent public right-of-way (sidewalk and gutter) shall be maintained litter-free.

17. **Landscaping**
    Prior to a final inspection
    Additional plantings shall be installed and maintained at landscaped planters located on site.

18. **Equipment cabinets**
    Prior to submitting for a building permit
    Plans shall be revised to show relocate of new westerly cabinet to east side of cabinet configuration to eliminate any profile above the roofline as visible from the public right-of-way and enclosure of all existing and new cabinets.

19. **Conduits/power cables**
    Prior to an inspection
    Paint existing and new conduits/power cables to match building color.

APPROVED BY:
City Planning Commission:_____(date)_____(vote)

RECEIVED
DEC 21 2010
City of Oakland
Planning & Zoning Division

CNU1069/CNU4497

LTE SITE: CCL01069
FA. #: 10087830 USID: 26485

I-580/HIGH STREET

4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

USA NORTH
OF CENTRAL/NORTHERN CALIFORNIA AND NEVADA
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED 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 CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA CODE OF REGULATIONS
2. 2007 CALIFORNIA BUILDING CODE
3. 2007 CALIFORNIA MECHANICAL CODE
4. 2007 CALIFORNIA PLUMBING CODE
5. 2007 CALIFORNIA ELECTRIC CODE
6. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
7. 2006 LIFE SAFETY CODE NFPA-101

...ANCES

S: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.

PROJECT DESCRIPTION

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

1. NEW THREE (3) OUTDOOR CABINETS [ONE (1) (RBA72) EQUIPMENT CABINET AND TWO (2) (FLX12WS) EQUIPMENT CABINETS] MOUNTED ON EXISTING EQUIPMENT PLATFORM @ EXISTING BUILDING ROOFTOP.
2. NEW THREE (3) LTE ANTENNAS ON EXISTING TOWER.
3. NEW SIX (6) RRU'S MOUNTED ON EXISTING TOWER.
4. NEW ONE (1) 3" FIBER/POWER CONDUIT FROM MAIN UNIT TO FIBER/POWER DOME UNIT.
5. NEW SIX (6) RET'S PER ANTENNA CONFIGURATION.
6. NEW ONE (1) FIBER/POWER DOME UNIT.
7. NEW ONE (1) GPS ANTENNA MOUNTED TO NEW EQUIPMENT CABINET.

DRIVING DIRECTIONS

FROM AT&T OFFICE - PLEASANTON, CA

1. DEPART ROSEWOOD DR TOWARD OLD SANTA RITA RD
2. TURN LEFT ONTO SANTA RITA RD
3. TAKE RAMP RIGHT FOR I-580 WEST/ARTHUR H BREED FWY
4. KEEP RIGHT TO STAY ON I-580 WEST/MACARTHUR FWY
5. TAKE EXIT 25 TOWARD MACARTHUR BLVD/HIGH STREET
6. TURN SLIGHT LEFT ONTO CALAVERAS AVE
7. CALAVERAS AVE BECOMES MACARTHUR BLVD
8. ARRIVE AT 4300 MACARTHUR BLVD, OAKLAND, CA 94619

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWING:
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS 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.
T-1	TITLE SHEET, SITE INFORMATION AND VICINITY MAP	0
T-2	GENERAL NOTES, LEGEND AND ABBREVIATIONS	0
A-1	SITE PLAN	0
A-2	ROOF PLAN	0
A-3	ANTENNA PLANS	0
A-4	NORTHEAST ELEVATION	0
A-5	NORTHWEST ELEVATION	0
A-6	EQUIPMENT AND CONSTRUCTION DETAILS	0
A-7	EQUIPMENT AND CONSTRUCTION DETAILS	0
S-1	STRUCTURAL NOTES	0
S-2	EQUIPMENT FRAMING PLAN	0
E-1	EQUIPMENT POWER PLAN AND PANEL SCHEDULE	0
E-2	GROUNDING NOTES AND DETAILS	0

PROJECT TEAM

APPLICANT/LESSEE:
AT&T
4430 ROSEWOOD DR.
PLEASANTON, CA 95488

...AIL A. SHAH, P.E.
...
...18
...11
...et

...MANAGER:
...DR. SUITE 400
...
...Z
...00
...sson.com

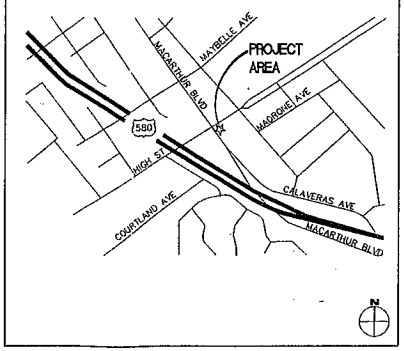
ZONING MANAGER:
LYLE COMPANY
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95670
CONTACT: JONATHAN FONG
PHONE: (916) 266-7000
EMAIL: jfong@lyleco.com

CONSTRUCTION MANAGER:
ERICSSON
6160 STONERIDGE MALL DR. SUITE 400
PLEASANTON, CA 94588
CONTACT: AMEDIE PARK
PHONE: (925) 737-5800
EMAIL: amedie.park@ericsson.com

PROJECT INFORMATION

SITE ADDRESS:	4300 MACARTHUR BOULEVARD OAKLAND, CA 94619
APN:	030-1982-118-01
PROPERTY OWNER:	K&K INVESTMENTS II, LLC 45772 BRIDGEPORT DRIVE FREMONT, CA.
CONTACT:	JACK GASKINS (510) 874-1997
LATITUDE:	37.78560' N (NAD 83)
LONGITUDE:	122.19160' W (NAD 83)
GROUND ELEVATION:	±183' AMSL
HEIGHT OF STRUCTURE:	±44' AGL
ZONING:	C-31
JURISDICTION:	CITY OF OAKLAND
TELEPHONE:	AT&T
POWER:	PG&E

VICINITY MAP



APPROVALS

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

ATTACHMENT C

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:
CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:
TITLE SHEET, SITE INFORMATION AND VICINITY MAP

SHEET NUMBER:
T-1

	NEW ANTENNA
	EXISTING ANTENNA
	GROUND ROD
	GROUND BUS BAR
	MECHANICAL GRND CONN
	CADWELD
	GROUND ACCESS WELL
E	ELECTRIC BOX
T	TELEPHONE BOX
	LIGHT POLE
	FND. MONUMENT
	SPOT ELEVATION
	SET POINT
	REVISION
X	GRID REFERENCE
X	DETAIL REFERENCE
X	ELEVATION REFERENCE
X	SECTION REFERENCE
	GROUT OR PLASTER
	(E) BRICK
	(E) MASONRY
	CONCRETE
	EARTH
	GRAVEL
	PLYWOOD
	SAND
	WOOD CONT.
	WOOD BLOCKING
	STEEL
	CENTERLINE
	PROPERTY/LEASE LINE
	MATCH LINE
	WORK POINT
	GROUND CONDUCTOR
T	TELEPHONE CONDUIT
E	ELECTRICAL CONDUIT
A	COAXIAL CABLE
OU	OVERHEAD SERVICE CONDUCTORS
X	CHAIN LINK FENCING
F/P	FIBER/POWER CONDUIT

LEGEND 1

A.B.	ANCHOR BOLT	GRND.	GROUND
ABV	ABOVE	HDR.	HEADER
ACCA	ANTENNA CABLE COVER ASSEMBLY	HGR.	HANGER
ADD'L	ADDITIONAL	HT.	HEIGHT
A.F.F.	ABOVE FINISHED FLOOR	ICGB.	ISOLATED COPPER GROUND BUS
A.F.G.	ABOVE FINISHED GRADE	IN.(")	INCH(ES)
ALUM.	ALUMINUM	INT.	INTERIOR
ALT.	ALTERNATE	LB.(#)	POUND(S)
ANT.	ANTENNA	L.B.	LAG BOLTS
APPRX.	APPROXIMATE(LY)	L.F.	LINEAR FEET (FOOT)
ARCH.	ARCHITECTURAL	L.	LONG(ITUDINAL)
AWG.	AMERICAN WIRE GAUGE	MAS.	MASONRY
BLDG.	BUILDING	MAX.	MAXIMUM
BLK.	BLOCK	M.B.	MACHINE BOLT
BLKG.	BLOCKING	MECH.	MECHANICAL
BM.	BEAM	MFR.	MANUFACTURER
B.N.	BOUNDARY NAILING	MIN.	MINIMUM
BTCW.	BARE TINNED COPPER WIRE	MISC.	MISCELLANEOUS
B.O.F	BOTTOM OF FOOTING	MTL.	METAL
B/U	BACK-UP CABINET	(N)	NEW
CAB.	CABINET	NO.(#)	NUMBER
CANT.	CANTILEVER(ED)	N.T.S.	NOT TO SCALE
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
CLG.	CEILING	OPNG.	OPENING
CLR.	CLEAR	P/C	PRECAST CONCRETE
COL.	COLUMN	PCS	PERSONAL COMMUNICATION SERVICES
CONC.	CONCRETE	PLY.	PLYWOOD
CONN.	CONNECTION(OR)	PPC	POWER PROTECTION CABINET
CONST.	CONSTRUCTION	PRC	PRIMARY RADIO CABINET
CONT.	CONTINUOUS	P.S.F.	POUNDS PER SQUARE FOOT
d	PENNY (NAILS)	P.S.I.	POUNDS PER SQUARE INCH
DBL.	DOUBLE	P.T.	PRESSURE TREATED
DEPT.	DEPARTMENT	PWR.	POWER (CABINET)
D.F.	DOUGLAS FIR	QTY.	QUANTITY
DIA.	DIAMETER	RAD.(R)	RADIUS
DIAG.	DIAGONAL	REF.	REFERENCE
DIM.	DIMENSION	REINF.	REINFORCEMENT(ING)
DWG.	DRAWING(S)	REQ'D.	REQUIRED
DWL.	DOWEL(S)	RGS.	RIGID GALVANIZED STEEL
EA.	EACH	SCH.	SCHEDULE
EL.	ELEVATION	SHT.	SHEET
ELEC.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATOR	SPEC.	SPECIFICATION(S)
EMT.	ELECTRICAL METALLIC TUBING	SQ.	SQUARE
E.N.	EDGE NAIL	S.S.	STAINLESS STEEL
ENG.	ENGINEER	STD.	STANDARD
EQ.	EQUAL	STL.	STEEL
EXP.	EXPANSION	STRUC.	STRUCTURAL
EXST.(E)	EXISTING	TEMP.	TEMPORARY
EXT.	EXTERIOR	THK.	THICK(NESS)
FAB.	FABRICATION(OR)	T.N.	TOE NAIL
F.F.	FINISH FLOOR	T.O.A.	TOP OF ANTENNA
F.G.	FINISH GRADE	T.O.C.	TOP OF CURB
FIN.	FINISH(ED)	T.O.F.	TOP OF FOUNDATION
FLR.	FLOOR	T.O.P.	TOP OF PLATE (PARAPET)
FDN.	FOUNDATION	T.O.S.	TOP OF STEEL
F.O.C.	FACE OF CONCRETE	T.O.W.	TOP OF WALL
F.O.M.	FACE OF MASONRY	TYP.	TYPICAL
F.O.S.	FACE OF STUD	U.G.	UNDER GROUND
F.O.W.	FACE OF WALL	U.L.	UNDERWRITERS LABORATORY
F.S.	FINISH SURFACE	U.N.O.	UNLESS NOTED OTHERWISE
FT.(')	FOOT (FEET)	V.I.F.	VERIFY IN FIELD
FTG.	FOOTING	W	WIDE(WIDTH)
G.	GROWTH (CABINET)	W/	WITH
GA.	GAUGE	WD.	WOOD
GI.	GALVANIZE(D)	W.P.	WEATHERPROOF
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	WT.	WEIGHT
GLB. (GLU-LAM)	GLUE LAMINATED BEAM	℄	CENTERLINE
GPS	GLOBAL POSITIONING SYSTEM	E	PLATE, PROPERTY LINE

ABBREVIATIONS 2

GENERAL NOTES FOR EXISTING AT&T CELL SITES:

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
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 COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
5. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
6. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

GENERAL NOTES FOR EXISTING AWS CELL SITES 3

GENERAL CONSTRUCTION NOTES:

1. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER 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. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED 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, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE 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 MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE CBC REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
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 TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.
13. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
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 SMUDGES OF ANY NATURE.
15. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ENGINEER, IF NECESSARY, BEFORE PROCEEDING.
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 WHENEVER PERSONNEL ARE ON SITE.
18. THE CONTRACTOR SHALL VERIFY ALL 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 SMUDGES OF ANY NATURE.
20. CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION
21. CONTRACTOR IS TO EXCAVATE 6" BELOW EXISTING GRADE AND SPRAY WITH WEED CONTROL. REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK AS SPECIFIED ON SITE PLAN.
22. CONTRACTOR SHALL PROVIDE TOILET 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 ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.

GENERAL CONSTRUCTION NOTES 4

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET NUMBER:
T-2

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

GENERAL NOTES:

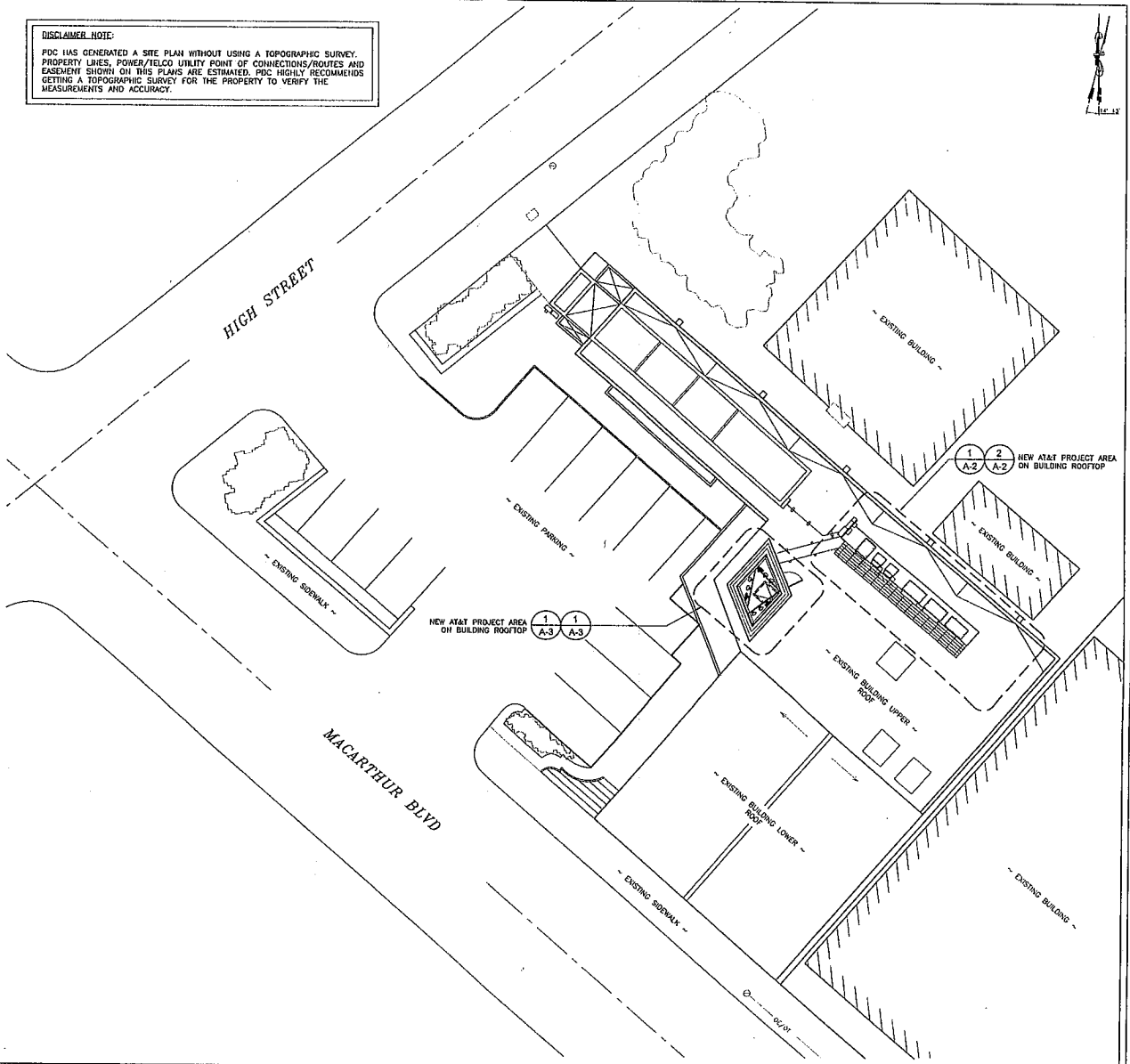
1. THIS PROPOSAL IS FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF INSTALLATION OF THE FOLLOWING: THREE (3) NEW OUTDOOR CABINETS MOUNTED ON EXISTING EQUIPMENT PLATFORM @ EXISTING BUILDING ROOFTOP, THREE (3) NEW LTE PANEL ANTENNAS, SIX (6) NEW RRU'S, ONE (1) 3" FIBER/POWER CONDUIT, SIX (6) NEW RET CONTROLLERS, ONE (1) FIBER/POWER DOME UNIT, AND ONE (1) NEW GPS ANTENNA.
2. THE EXISTING FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE EXISTING FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
5. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
6. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT NEW
7. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
9. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
10. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
11. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND DRAWINGS PROVIDED BY THE SITE OWNER. SUBCONTRACTOR SHALL NOTIFY AT&T OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

SITE WORK GENERAL NOTES:

1. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
2. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
4. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
5. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
6. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
8. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
9. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
10. ADD ELECTRICAL CONNECTIONS IN THE PUBLIC RIGHT OF WAY SHALL BE INSTALLED UNDERGROUND TO THE NEAREST UTILITY POLE.
11. NO WORK SHALL BE DONE WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT THE PRIOR APPROVAL AND PERMIT FROM THE ENVIRONMENTAL AND PUBLIC WORKS MANAGEMENT DEPARTMENT – ADMINISTRATIVE SERVICES.
12. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL DAMAGED OFFSITE IMPROVEMENTS CAUSED BY CONSTRUCTION. CALL PUBLIC WORKS INSPECTOR FOR INSPECTION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK.
13. NO CONSTRUCTION DEBRIS SHALL BE SPILLED OR STORED ONTO PUBLIC RIGHT-OF-WAY
14. NO RUNOFF SEDIMENT OR WASTES IS ALLOWED IN WATER LEAVING THE SITE.
15. ALL SITE UTILITIES SHALL BE CONSTRUCTED UNDERGROUND TO THE NEAREST POLE.
16. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR OFF-SITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DISCLAIMER NOTE:

PDC HAS GENERATED A SITE PLAN WITHOUT USING A TOPOGRAPHIC SURVEY. PROPERTY LINES, POWER/TELCO UTILITY POINT OF CONNECTIONS/ROUTES AND EASEMENT SHOWN ON THIS PLANS ARE ESTIMATED. PDC HIGHLY RECOMMENDS GETTING A TOPOGRAPHIC SURVEY FOR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.



SITE PLAN

0 5' 10' SCALE 1" = 10'-0" 1

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:
CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087830 USID: 28485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1052 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

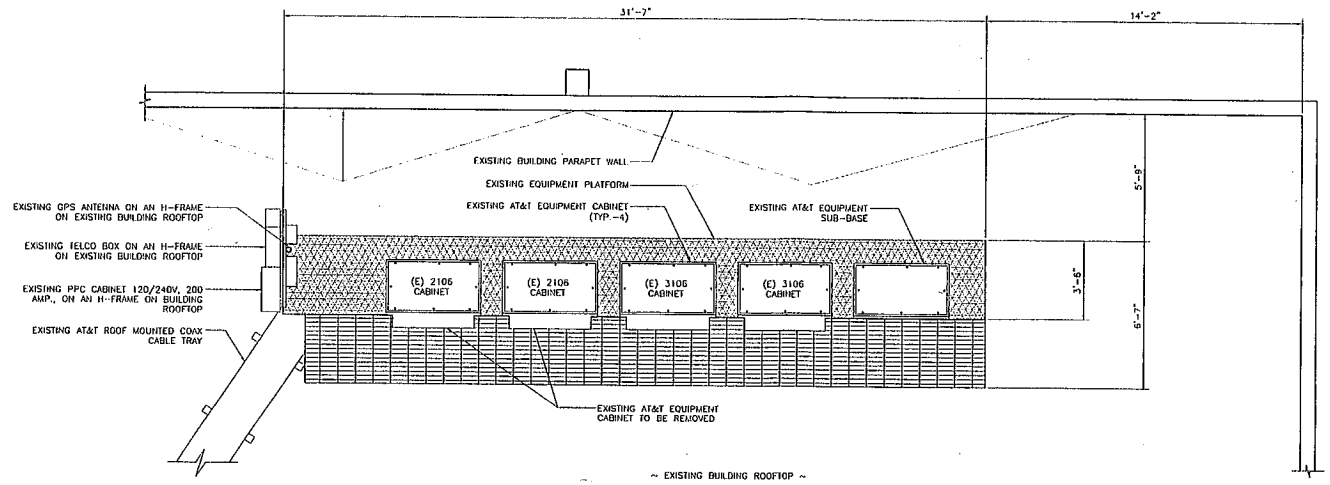
LICENSER:

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
A-1

SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

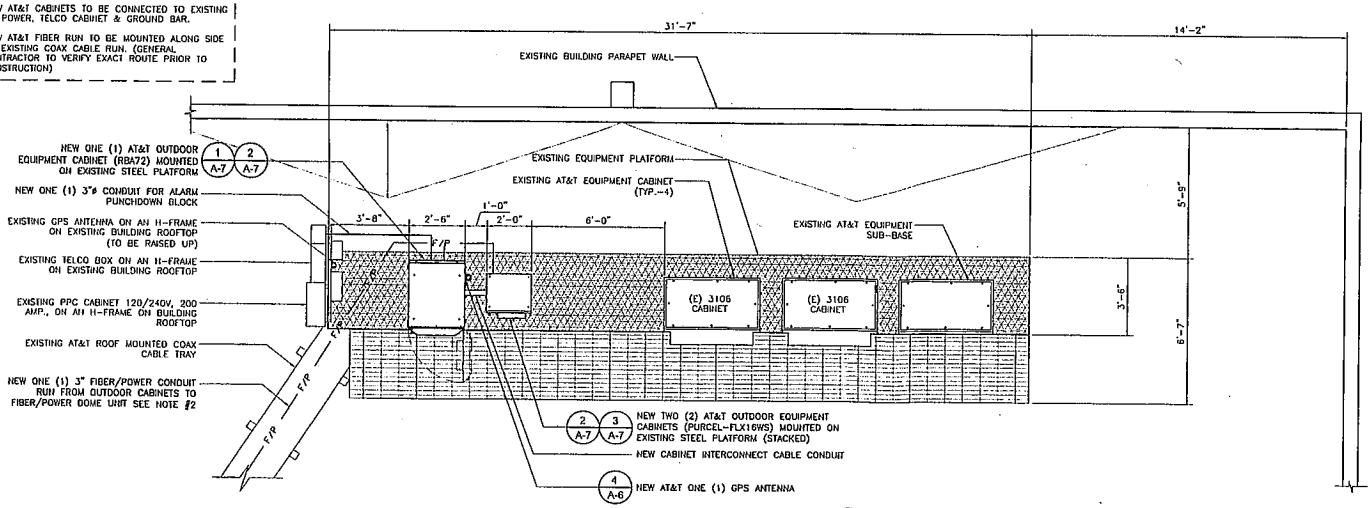


EXISTING EQUIPMENT LAYOUT

0 1' 3' 5' SCALE 3/8" = 1'-0" 1

NOTES:

1. NEW AT&T CABINETS TO BE CONNECTED TO EXISTING DC POWER, TELCO CABINET & GROUND BAR.
2. NEW AT&T FIBER RUN TO BE MOUNTED ALONG SIDE OF EXISTING COAX CABLE RUN. (GENERAL CONTRACTOR TO VERIFY EXACT ROUTE PRIOR TO CONSTRUCTION)



NEW EQUIPMENT LAYOUT

0 1' 3' 5' SCALE 3/8" = 1'-0" 2

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:

12/15/10

ISSUED FOR:

100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1052 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:

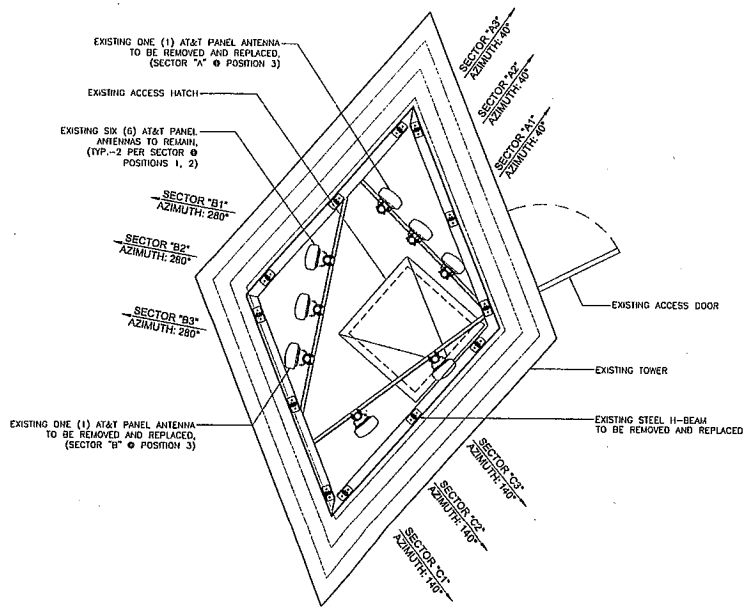
EQUIPMENT LAYOUTS

SHEET NUMBER:

A-2

SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

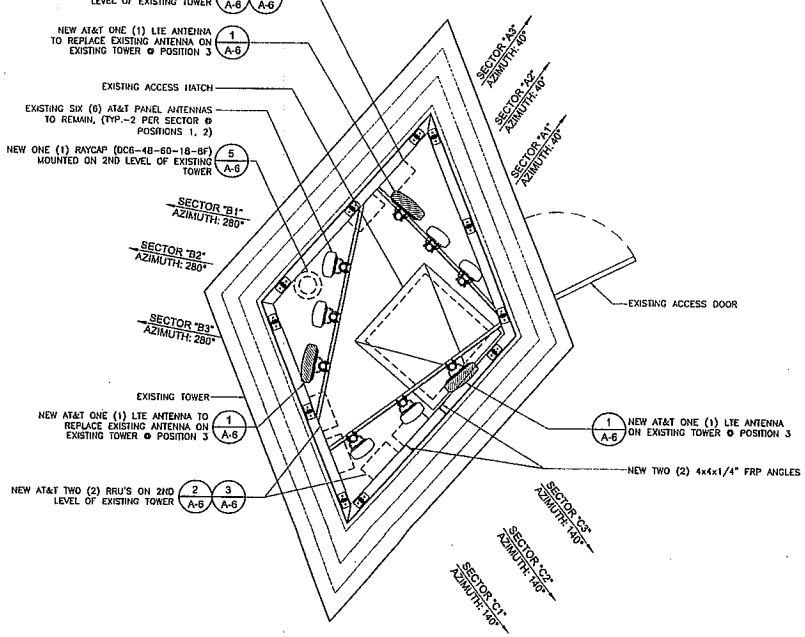


EXISTING ANTENNA PLAN 1

0 1' 2' 4' SCALE 1/2" = 1'-0"

NOTE:

1. ANTENNA CONFIGURATIONS BASED ON RFDS REVISION 8.2 DATED 04-21-2010
2. NEW ANTENNA DIMENSION: 52" x 12" x 8"



NEW ANTENNA PLAN 2

0 1' 2' 4' SCALE 1/2" = 1'-0"

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10067830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:

12/15/10

ISSUED FOR:

100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 605-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:

ANTENNA PLANS

SHEET NUMBER:

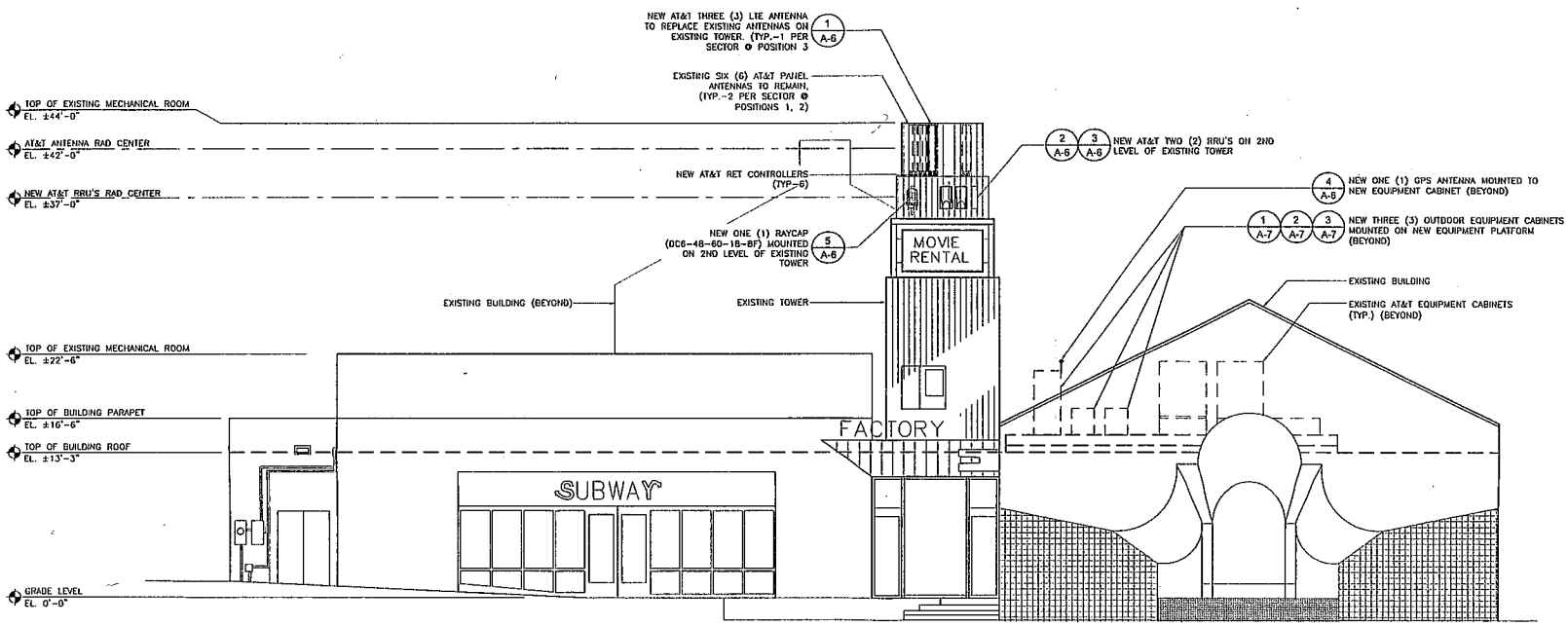
A-3

SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

DISCLAIMER NOTE:

PDC GENERATED THESE ELEVATIONS WITHOUT USING A TOPOGRAPHIC SURVEY. BUILDING STRUCTURE AND POLE HEIGHTS SHOWN ON THE PLANS ARE ESTIMATED. PDC HIGHLY RECOMMENDS GETTING A TOPOGRAPHIC SURVEY FOR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.



SOUTHWEST ELEVATION

0 3' 10' 15'

SCALE 3/16" = 1'-0"

1

at&t

4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:

12/15/10

ISSUED FOR:

100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:

PDC CORPORATION
1052 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:

LYLE
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:

SOUTHWEST ELEVATION

SHEET NUMBER:

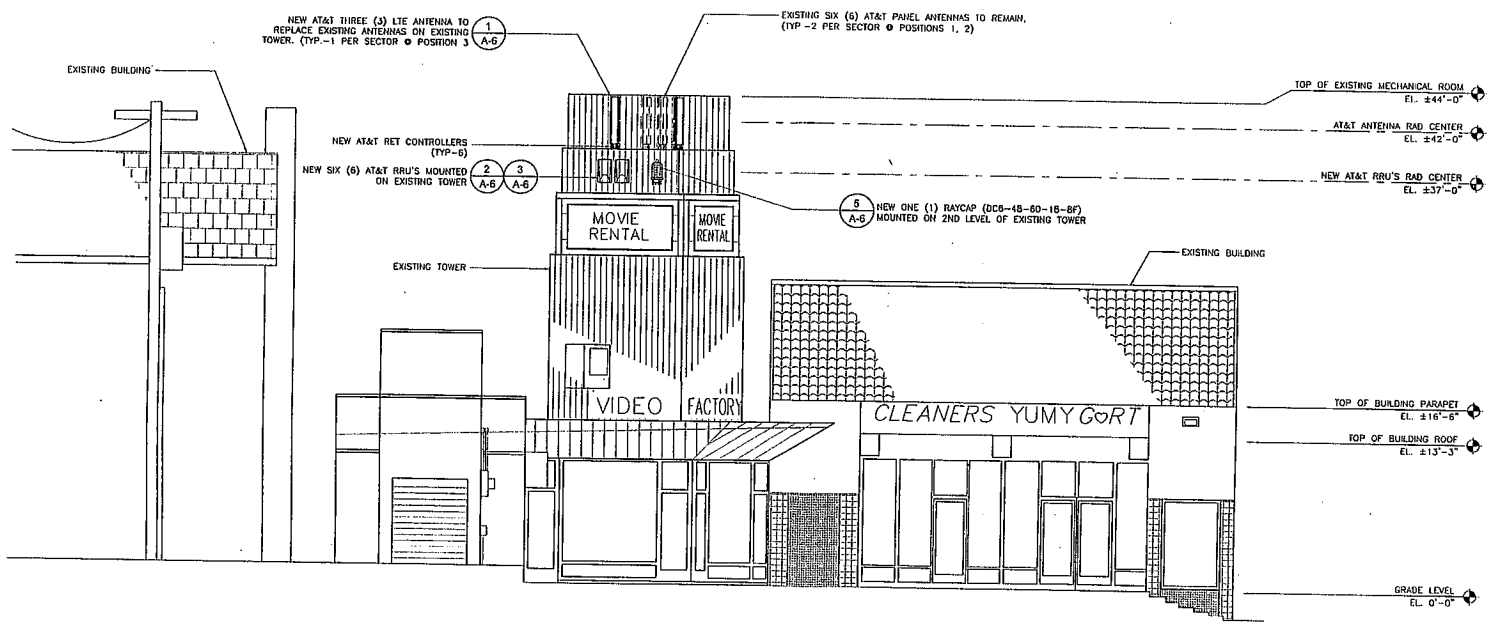
A-4

SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

DISCLAIMER NOTE:

PDC GENERATED THESE ELEVATIONS WITHOUT USING A TOPOGRAPHIC SURVEY. BUILDING STRUCTURE AND POLE HEIGHTS SHOWN ON THE PLANS ARE ESTIMATED. PDC HIGHLY RECOMMENDS GETTING A TOPOGRAPHIC SURVEY FOR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.



NORTHWEST ELEVATION

0 3' 10' 15' SCALE 3/16" = 1'-0" 1

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

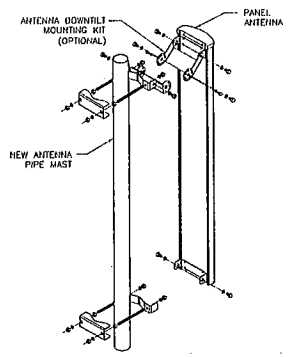
CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

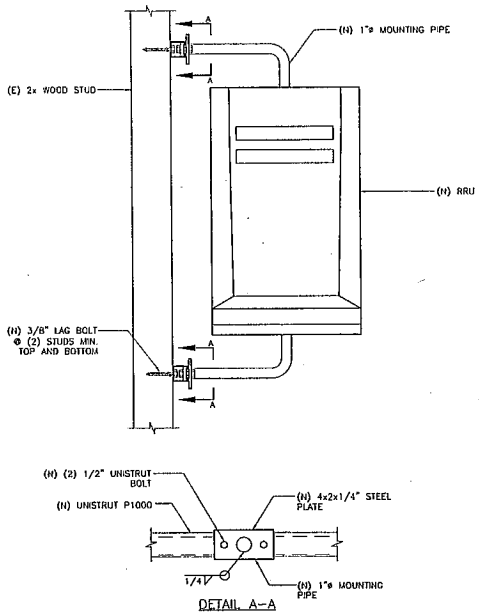
LICENSER:

SHEET TITLE:
NORTHWEST ELEVATION

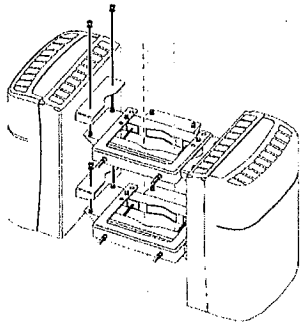
SHEET NUMBER:
A-5



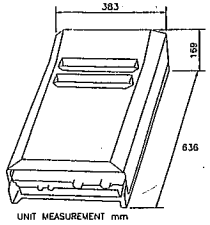
ANTENNA MOUNT | 1



RRU MOUNTING DETAIL | 2



RRU INSTALLATION



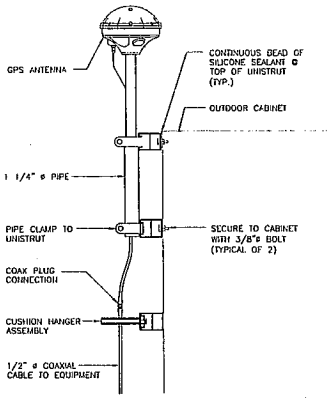
WEIGHT AND COLOR

DESCRIPTION	VALUE
WEIGHT	
RRUS	20 kg
COLOR	
GRAY	NCS S2502-R

20 kg = 44.09 POUNDS

383 mm = 15.07 INCHES
636 mm = 25.03 INCHES
169 mm = 6.65 INCHES

RRU INSTALLATION/SPECS | 3



NOTES:

LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.

ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

THE WEIGHT OF THE ANTENNA MOUNT IS 6.5 LBS.

IF ICE BRIDGE OR SIMILAR POST IS NOT GROUNDED, GROUND WITH #2 AWG TINNED BARE COPPER WIRE EXOTHERMICALLY BONDED TO POST AND CONNECTED TO GROUND RING.

GPS MOUNTING DETAIL | 4

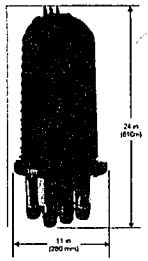
DC6-48-60-18-8F

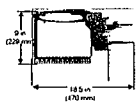
DC Power Surge Protection

Electrical Specifications	
Model Number	DC6-48-60-18-8F*
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I_n)	20 kA 8/20 µs
Maximum Discharge Current (I_{max}) per NEMA LS-1	60 kA 8/20 µs
Maximum Continuous Operating Voltage (U_c)	75 VDC
Voltage Protection Rating	400 V

*Module Assembly Part # - DC6-48-60-18-8F-U Field upgradable prewired module package for 1 remote radio

Mechanical Specifications	
Suppression Connection Method	Compression lug #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 66, 1m 72hrs
Operating Temperature	-40° C to + 60° C
Storage Temperature	-70° C to + 80° C
Cold Temperature Cycling	IEC 61300-2-22a -30° C to + 80° C 200 hrs @ 5 psi
Resistance to Aggressive Materials	CEI IEC 61373-2 including acids and bases
UV Protection	ISO 4892-2 Method A Xenon-Arc 2160 hrs





WEIGHT
System: 18.9 lbs (84.07 N)
Mount : 13.9 lbs (57.35 N)
Total: 32.8 lbs (141.45 N)

Stand-alone Module Assembly: 1 lb (4.45 N)

COMBINED WIND LOADING
150mph (sustained) : 105.7 lbs (470 N)
195mph (gust): 213.6 lbs (950 N)

STANDARDS
Strikesorb modules are compliant to the following Surge Protection Device (SPD) Standards:
- ANSI/UL 1449 - 3rd Edition
- ICEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11 2007)

DC6-48-60-18-8F SPECS | 5

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:
CNU1069/CNU4467
LTE SITE: CCL01069
FA #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5868

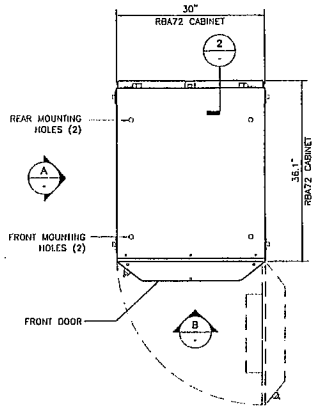
CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

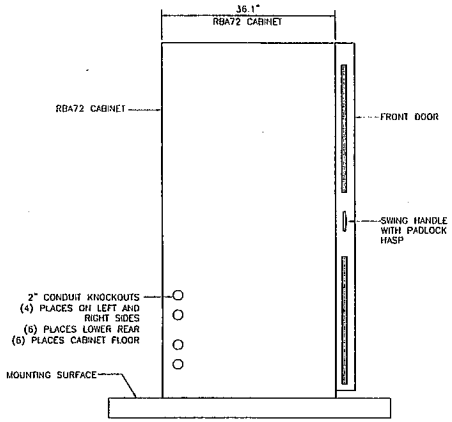
LICENSER:

SHEET TITLE:
EQUIPMENT AND CONSTRUCTION DETAILS

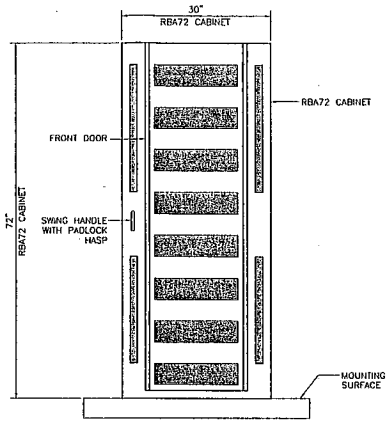
SHEET NUMBER:
A-6



NOTE:
EQUIPMENT WEIGHT = 1925 LBS

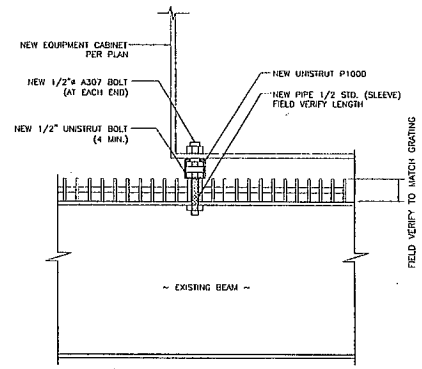


RBA72 ELEVATION (A)

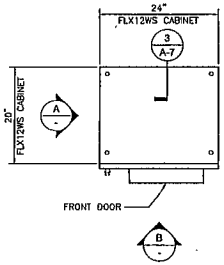


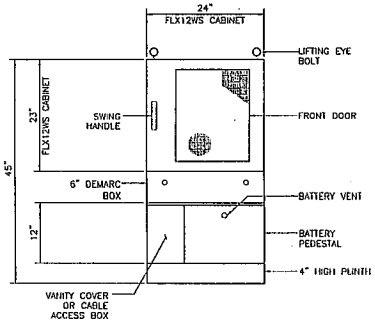
RBA72 ELEVATION (B)

RBA72 - EQUIPMENT DETAILS AND SPECS | 1

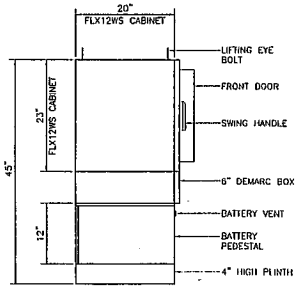


CABINET ANCHORAGE | 2

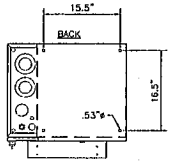




FLX12WS FRONT ELEVATION (A)

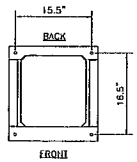


FLX12WS SIDE ELEVATION (B)



VIEW IS LOOKING DOWN THROUGH EQUIPMENT BAY AND 6" DEMARC BOX FLOORS (TRANSPARENT) INTO BOTTOM OF EMPTY BATTERY PEDESTAL.

BATTERY PEDESTAL BOLT-DOWN PATTERN



VIEW IS LOOKING DOWN AT TOP OF PLINTH (PLINTH SKIRT EXTENSION NOT SHOWN).

PLINTH BOLT-DOWN PATTERN

EQUIPMENT MOUNTING

- 12RU 19" RAILS, FRONT TO BACK ADJUSTABLE

CONSTRUCTION MATERIALS

- MATERIAL: ALUMINUM (LIGHTWEIGHT, CORROSION-RESISTANT
- PAINT: GR-407 TESTED & CERTIFIED POWER COAT

DOOR/SIDE PANEL CONSTRUCTION

- DOOR: FRONT DOOR WITH DOOR ALARM AND OPTIONAL AIR CONDITIONER, HEAT EXHANGER,OR THERMOELECTRIC COOLER
- LATCHES: TWO-POINT LATCHED, PAD LOCKABLE

ENVIRONMENTAL OPTIONS

- THERMOELECTRIC COOLER: 400W @ 0°dT, +24VDC, -48VDC OR 120VAC
- AIR CONDITIONER: UP TO 2,000 BTU/HR AIR CONDITIONER WITH HEATER
- HEAT EXCHANGER: UP TO 39W/°C HEAT EXCHANGER, +24VDC OR -48VDC

BATTERY PEDESTAL

- ACCOMMODATES UP TO 60AHR BATTERIES

CABLE ENTRY

- (3) 1/2"; (3) 1"; (1) 2" 31/2" OR 2" KNOCKOUTS

AC POWER OPTIONS

- 30A-MAIN POWER WITH OPTIONAL TRANSIENT VOLTAGE SURGE PROTECTION, 15A GENERATOR CONNECTION CABLE
- 6-POSITION 19" RACK-MOUNTED (1RU) OR 12-POSITION (2U) AC LOAD CENTERS AVAILABLE IN VARIOUS CONFIGURATIONS- CAN BE EQUIPPED WITH SURGE PROTECTION DEVICES THAT OCCUPY 1-POSITION OR 2-POSITIONS AND 6-POSITION DIN-MOUNTED AC BREAKER PANEL (120V OR 240V CONFIGURATIONS). OPTIONAL DIN-MOUNTED TVSS
- 15A GFCI DUAL OUTLET RECEPTACLE CONVENIENCE OUTLET

MOUNTING OPTIONS

- 4" PLINTH
- 14" PLINTH
- POLE MOUNT KIT
- WALL MOUNT KIT
- VERTICAL CABINET-ON-CABINET STACKING

'S - EQUIPMENT DETAILS AND SPECS | 3

NOT USED | 4

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR. SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:
EQUIPMENT AND CONSTRUCTION DETAILS

SHEET NUMBER:
A-7

GENERAL NOTES

ALL TRADES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2007 CALIFORNIA BUILDING CODE WITH AMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTIONS, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS WHICH ARE PROVIDED SEPARATELY.

2. BUILDING SHALL NOT BE OCCUPIED DURING REMODEL WORK WHERE:
(A) THE BUILDING STRENGTH IS SUBSTANTIALLY WEAKENED AT ANY POINT DURING THE REMODEL WORK.
(B) REQUIRED EXITS ARE NOT AVAILABLE OR ARE OBSTRUCTED.
(C) REQUIRED FIRE SAFETY DEVICES SUCH AS SPRINKLERS, STAND PIPE OR ALARM SYSTEMS ARE NOT OPERATIONAL.

3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL, BY PROJECT ENGINEER OF RECORD.

4. CONCRETE, MASONRY, AND STRUCTURAL STEEL WORK SHALL BE INSPECTED BY AN INSPECTOR LICENSED BY THE LOCAL JURISDICTION.

5. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD WHICH IS:

FLOORS 50 PSF (REDUCIBLE)
ROOFS 20 PSF (REDUCIBLE)

6. CONTRACTOR SHALL ERECT NECESSARY BARRIERS, PROTECTION FENCES AND/OR CANOPIES PRIOR TO STARTING CONSTRUCTION.

7. NECESSARY PERMITS SHALL BE SECURED AND NECESSARY BARRIERS, PROTECTION FENCES AND/OR CANOPIES SHALL BE ERECTED ALONG WALKWAYS PRIOR TO STARTING CONSTRUCTION.

8. WORKMANSHIP SHALL NOT CAUSE DAMAGE TO EXISTING CONSTRUCTION.

9. REMOVE FROM THE SITE ALL DEBRIS, LEAVING THE SITE DAILY IN A BROOM-CLEAN CONDITION.

10. THE CONTRACTOR SHALL EXERT EVERY EFFORT TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM CONTAMINATING THE WORK AREA. THESE EFFORTS SHALL INCLUDE BUT NOT BE LIMITED TO PROVIDING A DAILY CLEANUP OF THE CONSTRUCTION AREA AND PROVIDE PLASTIC SHEETING OVER EXISTING EQUIPMENT IF ANY. CONTRACTOR SHALL REFER TO THE PROJECT DETAILED SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS

11. PATCH, REBUILD AND RESTORE CEILINGS, PARTITIONS, PLASTER, PAINT, FINISHES, ETC. DAMAGED OR DEMOLISHED DURING CONSTRUCTION ACTIVITY. REFINISH SURFACES TO MATCH ADJACENT FINISH. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. RESTORE WORK WITH NEW PRODUCTS.

12. PROVIDE PROTECTION FROM WEATHER AND DUST TO AREAS EXPOSED DUE TO CUTTING AND UNCOVERING OF EXISTING SURFACES.

13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK.

14. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF PDC BEFORE PROCEEDING WITH THE WORK INVOLVED.

15. SHOP DRAWINGS AND PROCEDURES REQUIRED BY THE SPECIFICATIONS OR GENERAL NOTES SHALL BE SUBMITTED TO PDC FOR REVIEW 10 WORKING DAYS BEFORE START OF WORK REQUIRING APPROVALS.

16. REVIEW OF SHOP DRAWINGS BY STRUCTURAL ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND SHALL NOT BE CONSTRUED AS ACCEPTING RESPONSIBILITY FOR SAFE CONSTRUCTION PRACTICES.

17. SHOP DRAWINGS ARE AN AID FOR THE FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS. THE CONTRACTOR'S RESPONSIBILITY ALSO INCLUDES BUT IS NOT LIMITED TO DIMENSIONS BEING CONFIRMED AND CORRELATED AT THE JOB SITE. PDC SHALL BE NOTIFIED IN WRITING IF ANY DISCREPANCIES ARE FOUND.

18. NO CHANGES SHALL BE MADE TO THE DESIGN, UNLESS APPROVED BY THE ENGINEER OF RECORD. DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE REQUESTED IN WRITING PRIOR TO SUBMITTING SHOP DRAWINGS. APPROVED DEVIATIONS SHALL BE CLEARLY HIGHLIGHTED ON SHOP DRAWINGS SUBMITTED FOR REVIEW.

19. USE OF AN APPROVED ALTERNATE MATERIAL UNDER AN ICBO MUST INCORPORATE ALL THE SPECIFIED PROCEDURES, CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS ON THE PLANS.

20. THE OWNER SHALL RETAIN THE SERVICES OF A TESTING LABORATORY AND INSPECTION AGENCY AS SPECIFIED HEREIN AND AS REQUIRED BY THE CBC.

STRUCTURAL WOOD

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR - LARCH #1 GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLA, WWPA, OR WCLIB)

2. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR CONFORMING TO "PRODUCT STANDARD PS1-95", AND SHALL BE GRADE MARKED BY APA.

3. CUTTING, NOTCHING OR DRILLING OF BEAMS OR JOISTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER OF RECORD.

4. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A.

5. CONNECTOR DESIGNATIONS REFER TO STRONG-TIE CONNECTORS BY SIMPSON COMPANY, BREA, CALIFORNIA, UNLESS NOTED OTHERWISE. THE MINIMUM NAILING REQUIREMENTS ARE AS FOLLOWS:

(A) USE COMMON WIRE NAILS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. SINKER NAILS ARE NOT ALLOWED. SEE HANGER MANUFACTURER FOR NAIL SIZES AND QUANTITY.

(B) SHORT NAILS SHALL NOT BE USED TO NAIL CONNECTORS THROUGH PLYWOOD.

6. SILLS AND PLATES RESTING IN CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR. BOLTS SHALL BE 5/8 INCH MINIMUM DIAMETER EMBEDDED AT LEAST 9 INCHES INTO THE CONCRETE OR MASONRY AND SPACED NOT MORE THAN 4 FEET APART THERE SHALL BE A MINIMUM OF 2 BOLTS PER PIECE WITH 1 BOLT LOCATED WITHIN 9 INCHES OF EACH END OF EACH PIECE.

7. PREDRILL ALL HOLES FOR 20d NAILS AND LAG BOLTS.

8. BOLTS, HEADS AND NUTS BEARING ON WOOD SHALL HAVE METAL WASHERS. BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" TO 1/16" DIAMETER LARGER THAN NOMINAL BOLT DIAMETER.

9. LAG BOLTS SHALL HAVE LEAD HOLES BORED BEFORE DRIVING. HOLE DIAMETERS TO BE AS FOLLOWS:

(A) SHANK PORTION - SAME DIAMETER AND LENGTH AS SHANK.

(B) THREAD PORTION - 0.60 TO 0.75 DIAMETER OF THREAD AND SAME LENGTH.

10. NAIL ALL 2X DOUBLE STUDS WITH 16d NAILS AT 12 INCHES ON CENTER, STAGGERED. UNLESS NOTED OTHERWISE.

11. ALL BREAKS IN DOUBLE PLATES FOR VENTS, DUCTS AND PLUMBING SHALL BE STRAPPED AS PER TYPICAL DETAIL.

12. FASTENING SCHEDULE SHALL FOLLOW TABLE 2304.9.1 OF 2007 CBC UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLAN.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION" AND CONFORM TO:
(A) STRUCTURAL SHAPES AND PLATES: ASTM A36
(B) TUBES: ASTM A500, GRADE B, FY = 46 KSI
(C) ELECTRODES : AWS D1.1, CLASS E70XX
(D) STRUCTURAL FASTENERS:
HIGH STRENGTH BOLTS: ASTM A325 OR A490 AS INDICATED
MACHINE BOLTS: ASTM A307

2. ANCHOR BOLTS:
(A) THREADED RODS: ASTM A36
(B) ANCHOR BOLTS: ASTM A307

3. SHEAR STUDS: ASTM A108 GRADE 1015 (AISC MANUAL)

4. STEEL FABRICATOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. STEEL FABRICATOR TO COORDINATE WITH MECHANICAL SUBCONTRACTOR FOR THE SIZE, LOCATION AND DIMENSIONS OF THE MECHANICAL UNITS AND OPENINGS.

5. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.

6. ALL STEEL SHALL BE FABRICATED AND ERECTED BY CITY OF LOS ANGELES APPROVED FABRICATOR AND ICC LICENSED STEEL FABRICATOR.

7. ALL WELDING SHALL BE DONE BY AMERICAN WELDING SOCIETY (AWS) AND CITY OF LOS ANGELES CERTIFIED WELDERS USING AN ELECTRIC ARC PROCESS. CONTINUOUS INSPECTION IS REQUIRED FOR ALL FIELD WELDING.

8. MILL REPORTS SHALL BE FURNISHED TO THE CITY FOR ALL STRUCTURAL STEEL MEMBERS OR OTHER RECORDS ATTESTING THAT THE SPECIFIC GRADE CONFORMS TO UNIFORM BUILDING CODE STANDARD 27-1. OTHERWISE, TESTING OF MATERIALS WILL BE REQUIRED.

9. HIGH STRENGTH BOLTS INSTALLED AS BEARING BOLTS (A-325N) SHALL BE TORQUED TO SLIP CRITICAL TENSION REQUIREMENTS AS DEFINED BY THE LATEST PUBLICATION OF "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" SECTIONS 8C.

10. HIGH STRENGTH BOLTS REQUIRED TO BE SLIP CRITICAL (A325 OR A490) CAN BE INSTALLED BY USE OF DIRECT TENSION INDICATOR IN CONFORMANCE WITH ASTM F959-85, OR CAN BE TENSION SET. CONTINUOUS INSPECTION IS REQUIRED DURING ALL SLIP CRITICAL HIGH STRENGTH BOLT INSTALLATIONS AND TIGHTENING OPERATIONS. INSTALLATION SHALL BE CHECKED BY TORQUE WRENCH, CALIBRATED IN THE FIELD BY A DEVICE CAPABLE OF MEASURING DIRECT TENSION BOLTS.

11. ALL STRUCTURAL STEEL ERECTED WITH ANCHOR BOLTS SHALL BE PLUMBED AND LEVELED TO FINAL POSITION WITH DOUBLE NUTS. NO LEVELING PLATES SHALL BE USED.

12. ALL STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH STRENGTH BOLTED, TO BE ENCASED IN CONCRETE, TO RECEIVE SPRAY APPLIED FIREPROOFING, OR TO BE ENCLOSED BY FINISH MATERIALS, SHALL BE LEFT UNPAINTED.

13. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER, I.E. MECHANICAL PLATFORMS AND ROOF TOP EQUIPMENT SUPPORTS, SHALL BE HOT DIPPED GALVANIZED. ANY WELDING PERFORMED ON GALVANIZED MEMBERS SHALL BE TOUCHED UP WITH ZINC RICH PAINT IN THE FIELD.

14. ALL OTHER STRUCTURAL STEEL SHALL HAVE A SHOP COAT OF APPROVED PAINT.

15. ALL NEW STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL AFTER FABRICATION, THEN GIVEN ONE SHOP COAT OF RUST INHIBITIVE PRIMER. ALL UNPAINTED SURFACES AND SURFACES WHERE PAINT HAS BEEN DAMAGED AND/OR MARKED SHALL BE GIVEN A FIELD TOUCH-UP COAT OF PRIMER USED FOR THE SHOP COAT.

16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.

FIBRE REINFORCED PLASTIC (FRP):

A. THIS SECTION INCLUDES THE FOLLOWING FRP PRODUCTS AND FABRICATIONS:

1. FRP STRUCTURAL SHAPES
2. FRP GRATINGS AND FRAMES
3. FRP FOAM CORE BUILDING PANELS

B. FRP WALL PANEL SYSTEMS ARE TO MEET THE FOLLOWING REQUIREMENTS:

1. ALL FRP PRODUCTS TO BE FIBERGRATE IN ACCORDANCE WITH LOS ANGELES CITY RESEARCH REPORT 25536.

2. PANELS ARE TO MATCH THE EXISTING BUILDING COLOR AND TEXTURE TO THE SATISFACTION OF PDC, AT&T AND LANDLORD (OR OWNER).

3. PANEL SYSTEM MUST BE ABLE TO SPAN BETWEEN SUPPORTS PROVIDED AND RESIST A DESIGN WIND LOAD OF 25 POUNDS PER SQUARE FOOT PERPENDICULAR TO THE PANEL SURFACE WITH A MAXIMUM DEFLECTION RATIO OF 1/60.

4. ACCEPTABILITY OF THE PANEL RF TRANSPARENCY IS SUBJECT TO THE APPROVAL OF AT&T.

5. REFER TO PROJECT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

C. ALL FRP PRODUCTS SPECIFIED IN THESE DESIGN DRAWINGS SHALL BE AS FOLLOWS:

1. STRUCTURAL SHAPES AND PLATE: FIBERGRATE DYNAFORM. ALL STRUCTURAL SHAPES SHALL CONSIST OF A GLASS FIBER REINFORCED POLYESTER OR VINYL ESTER RESIN MATRIX, APPROXIMATELY 50% RESIN TO GLASS RATIO. GLASS STRAND ROVING SHALL BE USED IN THE LONGITUDINAL DIRECTION AND CONTINUOUS STRAND MATS SHALL BE USED FOR TRANSVERSE REINFORCEMENT.

2. FASTENERS: WHERE SPECIFIED AS FRP FASTENERS SHALL BE FIBERGRATE THREADED ROD AND NUTS TYPICALLY BOLTS WITHIN THE AREA OF THE ANTENNA SIGNAL TO BE FRP. ALL OTHER BOLTS TO BE ASTM A307.

D. ALL FRP PRODUCTS SHALL BE MANUFACTURED USING THE PULTRUDED PROCESS UTILIZING EITHER AN ISOPHTHALIC POLYESTER OR VINYL ESTER RESIN WITH FLAME RETARDANT AND ULTRAVIOLET (UV) INHIBITOR ADDITIVES. A SYNTHETIC SURFACE VEIL SHALL BE THE OUTERMOST LAYER COVERING THE EXTERIOR SURFACE.

E. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO INSTALL THE FRP PRODUCTS AS SPECIFIED HEREIN.

F. SHOP DRAWINGS OF ALL FRP STRUCTURAL MEMBERS SHALL BE SUBMITTED TO PDC FOR REVIEW. ALL SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:

1. DIMENSIONS
2. ERECTION INSTRUCTIONS AND SECTIONAL ASSEMBLIES
3. LOCATION AND IDENTIFICATION MARKS
4. SIZE AND TYPE OF SHORING OR TEMPORARY SUPPORT FRAMING
5. MATERIAL SPECIFICATIONS AND SUPPORTING DATA AS NECESSARY

G. CONTRACTOR MAY BE REQUIRED TO SUBMIT SAMPLES OF SPECIFIC PRODUCTS FOR APPROVAL PRIOR TO INSTALLATION AND PLACEMENT OF PURCHASE ORDERS.

H. ALL CUT ENDS, HOLES AND ABRASIONS OF FRP SHAPES AND MEMBERS SHALL BE SEALED WITH A COMPATIBLE RESIN COATING TO PREVENT INTRUSION OF MOISTURE AND PREMATURE FRAYING.

I. FRP CONNECTION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

1. FOAM CORE PANEL CONNECTIONS: PANELS SHALL BE DESIGNED FOR TONGUE-IN-GROOVE JOINT CONNECTIONS ON TWO PARALLEL SIDES PER PANEL. PANELS CAN BE FASTENED TO THE STRUCTURE WITH A COMPATIBLE EPOXY ADHESIVE AND/OR STAINLESS STEEL OR FIBERGLASS FASTENERS AS APPROPRIATE.

2. STRUCTURAL MEMBER CONNECTIONS:

I. ALL FIBERGLASS NUTS AND STUDS ARE TO BE LUBRICATED WITH EITHER A LIGHT OIL, DRY LUBRICANT OR SILCONE SPRAY.

II. ALL CONNECTIONS TO BE TORQUED TO THE FOLLOWING REQUIREMENTS:

3/8" BOLT ----- 4 FT-LBS
1/2" BOLT ----- 8 FT-LBS
5/8" BOLT ----- 16 FT-LBS
3/4" BOLT ----- 24 FT-LBS
1" BOLT ----- 50 FT-LBS

III. ALL BOLTS TO BE TORQUED USING A CALIBRATED TORQUE WRENCH.

IV. FIBERGLASS STUD/NUT ASSEMBLIES SHALL BE BONDED TO INSURE THAT THE NUTS DO NOT LOOSEN. THIS CAN BE ACCOMPLISHED BY APPLYING A THICK LAYER OF ADHESIVE OR RESIN TO OVER THE EXPOSED ASSEMBLY.

V. STRUCTURAL CONNECTION UNLESS OTHERWISE NOTED IN THE DESIGN DRAWINGS RELY ON A COMBINATION OF BOLT BEARING AND ADHESIVE BONDING. EPOXY ADHESIVES RECOMMENDED FOR CONNECTIONS ARE SHELL 828 EPOXY RESIN, DOW D.E.R. 331 EPOXY RESIN OR FIBERGRATE EPOXY ADHESIVE. SAND MATING SURFACES WITH 120 GRIT SANDPAPER TO REMOVE POLYESTER SURFACING VEIL AND CLEAN JOINING SURFACES WITH A COMPATIBLE SOLVENT PRIOR TO BONDING. JOINTS SHOULD BE PROPERLY CLAMPED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND HELD IN POSITION FOR AT LEAST 48 HOURS (AT 70 DEGREES, REFER TO MANUFACTURER TO OTHER TEMPERATURES) BEFORE DESIGN LOAD CAN BE APPLIED.

VI. MINIMUM EDGE DISTANCE TO THE SIDE OF FASTENERS SHALL BE ONE AND A HALF DIAMETERS AND TWO DIAMETERS TO THE MEMBER END (OR MINIMUM OF 1.5") MINIMUM BOLT SPACING TO BE FOUR DIAMETERS

WELDING

1. ALL STRUCTURAL STEEL WELDING SHALL BE AS PER LATEST EDITION OF THE AMERICAN WELDING CODE (AWS) D1.1. ELECTRODE TO BE USED IS E 70XX. WELD LENGTHS SHOWN ARE EFFECTIVE LENGTH PER THE LATEST EDITION OF THE AWS. WHERE LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF JOINT.

2. ALL WELDING OF REINFORCING STEEL SHALL BE PER THE LATEST EDITION OF AWS D1.4

3. CONTINUOUS INSPECTION IS REQUIRED FOR ALL WELDING. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATIONS FROM THE AWS AND THE CITY FOR WELDING OF STRUCTURAL STEEL.

4. ALL FULL PENETRATION WELDS SHALL BE TESTED BY NONDESTRUCTIVE METHODS. (ULTRASONIC OR RADIOGRAPHIC TESTING). ALL RADIOGRAPHIC OPERATIONS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 17 - HEALTH: RADIATION CONTROL REGULATIONS. COORDINATION WITH OWNER RADIATION SAFETY OFFICER SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY RADIOGRAPHIC OPERATIONS. A COPY OF ALL RADIATION SAFETY SURVEY/MONITORING LOGS SHALL BE FURNISHED TO OWNER.

5. REMOVE EXISTING PAINT ON EXISTING STEEL ELEMENTS BEFORE WELDING TO EXISTING STEEL.

6. THE CONTRACTOR SHALL COMPLY WITH ALL FIRE REGULATIONS DURING WELDING OPERATIONS WHERE FLAMMABLE ELEMENTS EXIST AND SHALL ALSO PROVIDE TEMPORARY PROTECTIVE SHIELDS OF ACCEPTABLE NON-FLAMMABLE MATERIALS AS REQUIRED TO PROTECT THE EXISTING BUILDING ELEMENTS FROM FIRE. IN ORDER TO AVOID ANY FIRE HAZARD, REMOVE TEMPORARILY ALL EXISTING WOOD ELEMENTS IN THE CLOSE VICINITY OF THE NEW WELDING OPERATIONS AND REINSTALL THEM AFTERWARDS TO THE ORIGINAL CONDITION. CONTRACTOR MUST OBTAIN A WELD OR BURN PERMIT FROM THE OWNER'S REPRESENTATIVE AT BEGINNING OF EACH WORK SHIFT.

GENERAL CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE ON PLANS.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH .....3 IN.
CONCRETE EXPOSED TO EARTH
OR WEATHER:
#6 AND LARGER .....2 IN.
#5 AND SMALLER & WWF .....1 1/2 IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

SLAB AND WALL .....3/4 IN.
BEAMS AND COLUMNS .....1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SPECIAL INSPECTIONS, WHEN REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

INSPECTIONS:

1. CONTRACTOR SHALL KNOW AND COMPLY WITH REQUIREMENTS OF GOVERNING AGENCY BY INFORMING BUILDING DEPARTMENT WHEN REQUIRED INSPECTIONS ARE TO TAKE PLACE.

2. INSPECTIONS ARE REQUIRED FOR:

* ALL STRUCTURAL STEEL WORK
* ALL CONCRETE WORK
* ALL MASONRY WORK
* ALL REINFORCING STEEL
* ALL EXCAVATIONS

3. SPECIAL INSPECTIONS

A) THE OWNERS SHALL EMPLOY SPECIAL INSPECTORS WHO SHALL PROVIDE ADDITIONAL INSPECTIONS DURING CONSTRUCTION IN ACCORDANCE WITH CBC CHAPTER 17.
B) ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, LICENSED AND APPROVED BY THE BUILDING DEPARTMENT
C) ALL INSPECTIONS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED.
D) THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTIONS REPORTS DIRECTLY TO THE ARCHITECT, PDC, AND BUILDING DEPARTMENT.
E) ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND PDC FOR PROPER ACTION.
F) TYPE OF WORK LISTED BELOW REQUIRES CONTINUOUS SPECIAL INSPECTION U.N.O.:

SOILS.
SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH CBC SECTION 1704.7.

PILE AND PIER FOUNDATIONS:
SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH CBC SECTION 1704.8 AND 1704.9

CONCRETE:
CONCRETE PLACEMENT: CONTINUOUS
REBAR PLACEMENT FINAL PLACEMENT
REBAR WELDING CONTINUOUS
REBAR COUPLING 10% WITH TORQUE WRENCH
ANCHOR BOLTS AND INSERTS CONTINUOUS
BATCH PLANT INSPECTIONS PERIODIC
CUNRIE/SHOTCRETE PLACEMENT CONTINUOUS
EXPANSION ANCHOR INSTALLATION CONTINUOUS
EPOXY ANCHOR INSTALLATION CONTINUOUS
MASONRY:
UNIT LAYUP PERIODIC
GROUT PLACEMENT CONTINUOUS
REBAR PLACEMENT PERIODIC

STRUCTURAL STEEL:
FILLET WELD FIELD WELDING CONTINUOUS
FULL PENETRATION FIELD WELDING CONTINUOUS
PARTIAL PENETRATION FIELD WELDING CONTINUOUS
HIGH STRENGTH BOLTING CONTINUOUS
WELDED ANCHORS OR STUDS CONTINUOUS
METAL DECK WELDING CONTINUOUS

LUMBER:
FLOOR / ROOF SHEATHING NAILING PERIODIC
SHEAR WALL SHEATHING NAILING PERIODIC
GLUE-LAMINATED BEAMS/COLUMNS, FABRICATION
WOOD 'I' JOISTS AND O.W. JOISTS, FABRICATION
PREFABRICATED TRUSSES, FABRICATION
ANCHOR BOLTS / HOLDOWNS PER CBC
METAL STRAP PLACEMENT PER CBC

4. A COMPLETE RECORD OF INSPECTION REPORTS SHALL BE RETAINED BY THE INSPECTOR FOR AT LEAST 2 YEARS AFTER COMPLETION OF THE PROJECT, AND MADE AVAILABLE FOR INSPECTION DURING THE PROGRESS OF THE WORK.
SUBMITTALS

5. THE FOLLOWING SUBMITTALS SHALL BE COORDINATED WITH ARCHITECT FOR SUBMITTAL TO PDC FOR REVIEW 10 WORKING DAYS BEFORE START OF WORK REQUIRING SUBMITTALS.

A. SHOP DRAWINGS.

B. MIX DESIGN OF CONCRETE.

C. MIX DESIGN OF MASONRY GROUT.

D. DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS.

E. MATERIAL SPECIFICATIONS INCLUDING BUT NOT LIMITED TO NON-SHRINK GROUT, CURING COMPOUND, ANCHOR BOLTS, ETC.

F. TEST REPORTS INCLUDING BUT NOT LIMITED TO TEST RESULTS OF CONCRETE, EPOXY ANCHORS TO EXISTING CONCRETE AND ULTRASONIC TESTING FOR FULL PENETRATION WELDS SHALL BE SUBMITTED TO OWNER WITHIN 3 DAYS OF COMPLETION OF WORK.

G. WELDING PROCEDURE SPECIFICATIONS (WPS).

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA #: 10087830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

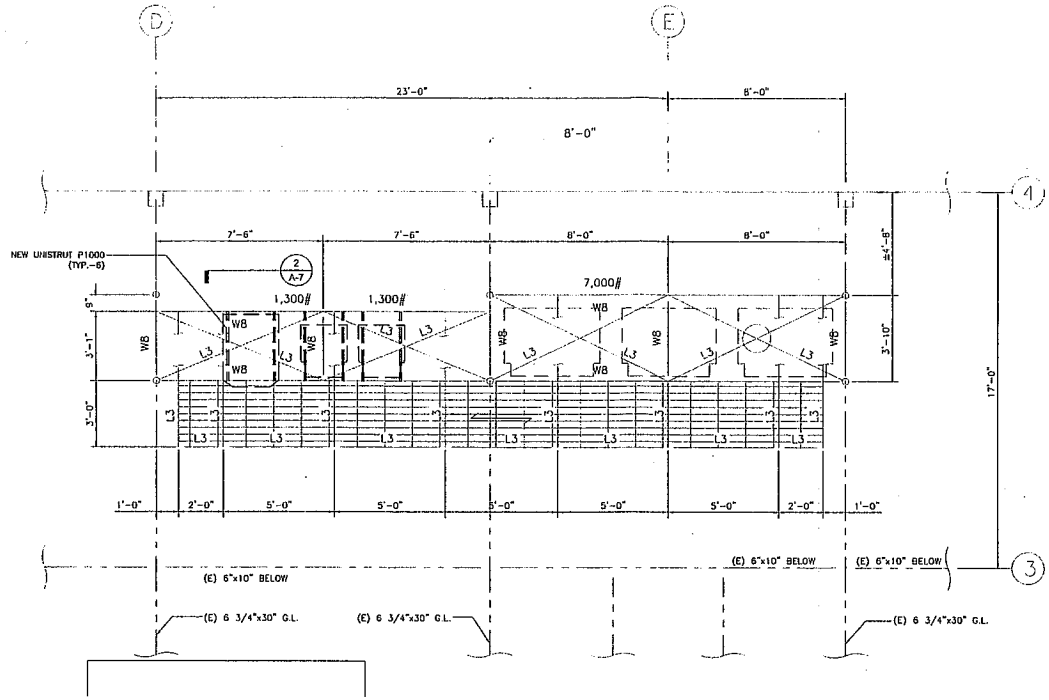
CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:
STRUCTURAL NOTES

SHEET NUMBER:
S-1



EQUIPMENT FRAMING PLAN 1

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA. #: 10087630 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

LICENSER:

SHEET TITLE:
EQUIPMENT FRAMING PLAN

SHEET NUMBER:
S-2

* 1. PER MANUFACTURER'S RECOMMENDATIONS.

2 E.C SHALL MODIFY BRANCH CIRCUIT ARRANGEMENT AS SHOWN IN THE PANEL SCHEDULE

PANEL CIRCUIT AND LOAD SCHEDULE

	LOAD DESCRIPTION	LOAD QUANTITY	LOAD VA	LOAD PER PHASE (VA) A	B	C	LOADED CONTINUOUS	NON-CONTINUOUS LOADS	TRIP	POLES	WIRE SIZE	A.I.C.	WIRE TYPE		WIRE TYPE	A.I.C.	WIRE SIZE	POLES	TRIP	NON-CONTINUOUS LOADS	CONTINUOUS LOADS	LOAD PER PHASE (VA) A	B	C	VA LOAD	LOAD QUANTITY	LOAD DESCRIPTION	
1	BLANK	-	-	-	-	-	-	-	-	-	-	-			-	-	-	1	30	-	-	-	-	-	-	-	TVSS	2
3	UNITS 2	-	-	-	-	-	-	-	50	2	-	-			-	-	-	1	30	-	-	-	-	-	-	-	TVSS	4
5	"	-	-	-	-	-	-	-	-	-	-	-			-	-	-	1	30	-	-	-	-	-	-	-	SPARE	6
7	CSU 1900	-	-	-	-	-	-	-	50	2	-	-			-	-	-	1	50	-	-	-	-	-	-	-	SCBTS	8
9	"	-	-	-	-	-	-	-	-	-	-	-			-	-	-	1	30	-	-	-	-	-	-	-	SCBTS	10
11	NEW RBA72	-	-	-	-	-	-	-	40A	2	-	-			-	-	-	2	50	-	-	-	-	-	-	-	850 CSU 1	12
13	"	-	-	-	-	-	-	-	-	-	-	-			-	-	-			-	-	-	-	-	-	-	"	14
15	NEW RBA72	-	-	-	-	-	-	-	40A	2	-	-			-	-	-	2	60	-	-	-	-	-	-	-	1900 CSU	16
17	"	-	-	-	-	-	-	-	-	-	-	-			-	-	-			-	-	-	-	-	-	-	"	18
19	NEW RBA72	-	-	-	-	-	-	-	40A	1	-	-			-	-	-	1	30	-	-	-	-	-	-	-	GFI	20
21	BLANK	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	BLANK	22
23	BLANK	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	BLANK	24
	SUBTOTAL CONTINUOUS																					-	-	-	-	TOTAL KVA CONTINUOUS x 1.25	-
	SUBTOTAL NON-CONTINUOUS		-	-																		-	-	-	-	SUBTOTAL KVA-CONTINUOUS	
																										TOTAL KVA NON-CONTINUOUS	--
																										TOTAL KVA	--
																										TOTAL AMPS	--

VOLTAGE: 120 / 240 CYCLE: 60 PHASE: 1 WIRES: -

NEUTRAL:

MAIN BREAKER: A.I.C.: 42,000 TRIP: --

MAIN LUGS: 200 AMPS MAIN COPPER BUS: ____ AMPS

MAINS: TOP X BOTTOM ____

SERVICE: 120 / 240 VAC 1PH 3W

DESIGNATION: "PP1"

LOCATION: N/A

MANUFACTURER: MARCONI

TYPE AND CATALOG NUMBER: -

NO EQUAL: ____ APPROVED EQUAL: ____

MOUNTING: SURFACE X FLUSH ____

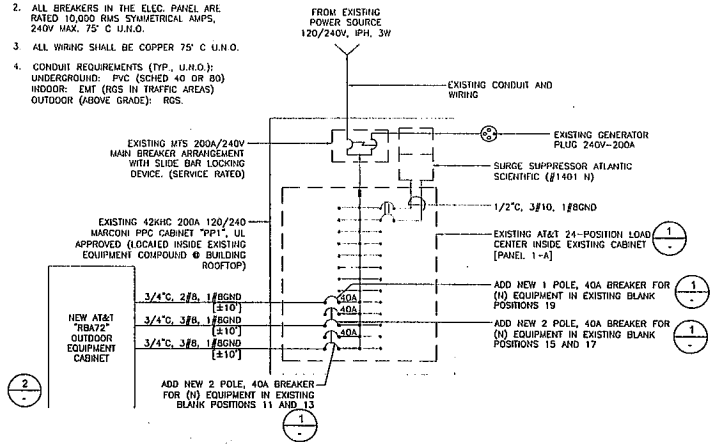
(1) INSTALL (N) 2 POLE 40A BREAKER(S) IN BLANK POSITIONS TO FEED THE NEW CABINET(S) IN POSITION(S) 11, 13, 15 AND 17 AS SHOWN ABOVE AND PER PLAN.

(2) INSTALL (N) 1 POLE 40A BREAKER(S) IN BLANK POSITIONS TO FEED THE NEW CABINET(S) IN POSITION(S) 19 AS SHOWN ABOVE AND PER PLAN.

EXISTING PANEL SCHEDULE (BREAKER ASSIGNMENT -- PPC CABINET - "PP1") 1

ELECTRICAL NOTES:

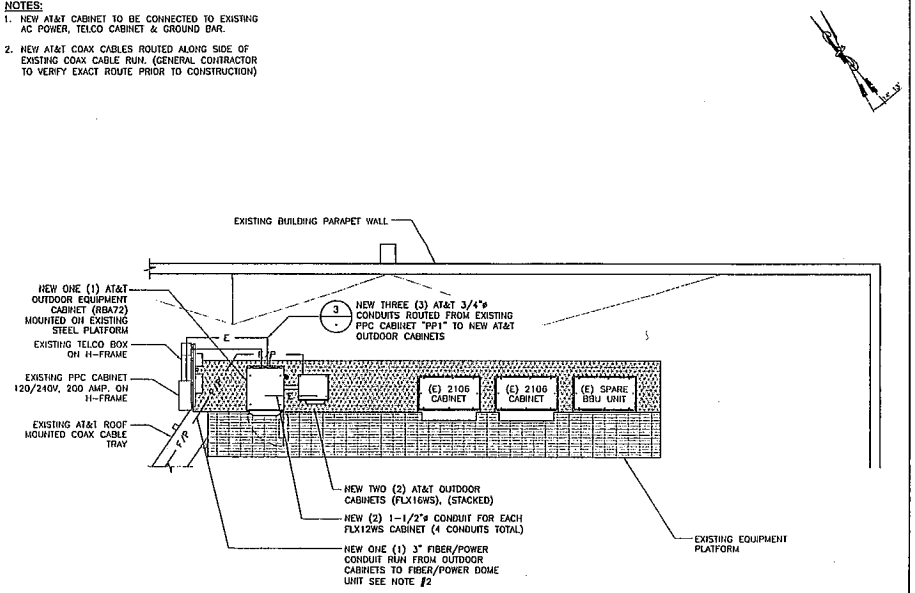
1. PROVIDE A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS/SERVICE EQUIP.
2. ALL BREAKERS IN THE ELEC. PANEL ARE RATED 10,000 RMS SYMMETRICAL AMPS, 240V MAX. 75° C U.N.O.
3. ALL WIRING SHALL BE COPPER 75° C U.N.O.
4. CONDUIT REQUIREMENTS (TYP., U.N.O.):
   UNDERGROUND: PVC (SCHED 40 OR 80)
   INDOOR: EMT (RGS IN TRAFFIC AREAS)
   OUTDOOR (ABOVE GRADE): RGS.



EXISTING PPC - "PP1" 3

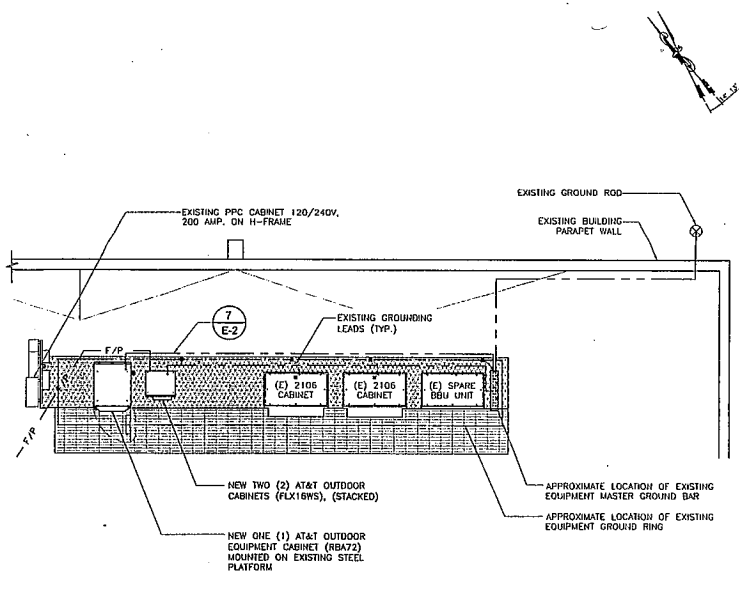
NOTES:

1. NEW AT&T CABINET TO BE CONNECTED TO EXISTING AC POWER, TELCO CABINET & GROUND BAR.
2. NEW AT&T COAX CABLES ROUTED ALONG SIDE OF EXISTING COAX CABLE RUN. (GENERAL CONTRACTOR TO VERIFY EXACT ROUTE PRIOR TO CONSTRUCTION)



EQUIPMENT POWER PLAN

0 2' 4' 8' SCALE 1/4" = 1'-0" 2



EQUIPMENT GROUNDING PLAN

0 2' 4' 8' SCALE 1/4" = 1'-0" 4

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01089
FA #: 10087830 USID: 28485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE:
12/15/10

ISSUED FOR:
100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PPC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5868

CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

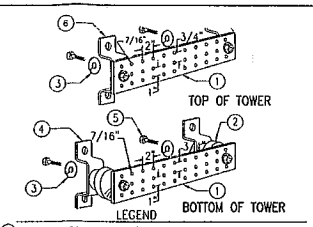
LICENSER:

SHEET TITLE:
EQUIPMENT POWER PLAN AND PANEL SCHEDULE

SHEET NUMBER:
E-1

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OG GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING @ PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING. NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING @ BUSS BAR. NO "DOUBLING-UP" OF LUGS.
17. POWER AND TELCO CABS. SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO "LB'S" ALLOWED ON GROUNDING RUNS.

GROUNDING NOTES — 1

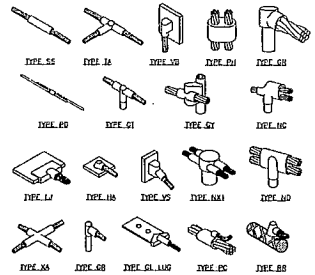


LEGEND

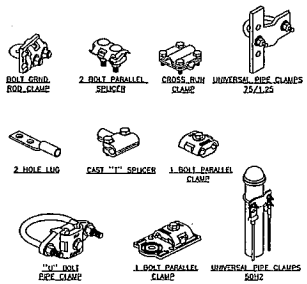
1. COPPER GROUND BAR, 1/4"X 4"X 10", NEWTON INSTRUMENT CO. CAT. NO B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-B OR EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE TO BE STAINLESS STEEL.

TYPICAL GROUND BAR — 2



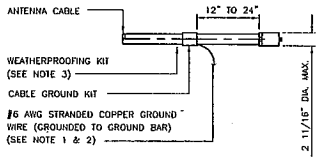
EXOTHERMIC CONNECTIONS — 3



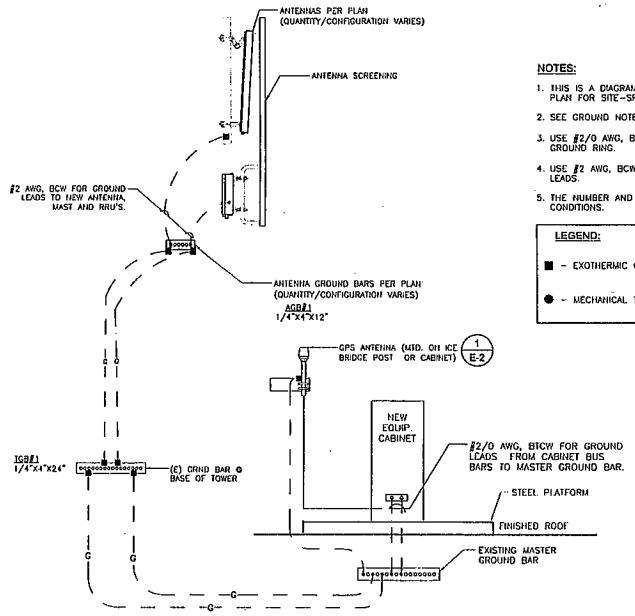
MECHANICAL CONNECTIONS — 4

NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)



CONN. OF CABLE GRND KIT TO ANT. DETAIL — 5



NOTES:

1. THIS IS A DIAGRAMMATIC REPRESENTATION ONLY. SEE GROUNDING PLAN FOR SITE-SPECIFIC GROUNDING LAYOUT AND COMPONENTS.
2. SEE GROUND NOTES FOR ADDITIONAL INFORMATION.
3. USE #2/0 AWG, BCW FOR GROUND LEADS FROM BUS BARS TO GROUND RING.
4. USE #2 AWG, BCW FOR BURIED GROUND LOOP AND GROUND LEADS.
5. THE NUMBER AND SIZE OF GROUND BARS USED MAY PER SITE CONDITIONS.

LEGEND:

■ - EXOTHERMIC CONNECTION (3)

● - MECHANICAL TYPE CONNECTION (4)

TYP. SYSTEM GROUNDING SCHEMATIC — 7

NOT USED — 6

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

PROJECT INFORMATION:

CNU1069/CNU4467
LTE SITE: CCL01069
FA #: 10097830 USID: 26485
I-580/HIGH STREET
4300 MACARTHUR BOULEVARD
OAKLAND, CA 94619

CURRENT ISSUE DATE: 12/15/10

ISSUED FOR: 100% CONSTRUCTION DRAWING

REV.:	DATE:	DESCRIPTION:	BY:
A	10/20/10	90% CONSTRUCTION DRAWING	HG
0	12/15/10	100% CONSTRUCTION DRAWING	JD

PLANS PREPARED BY:
PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5866

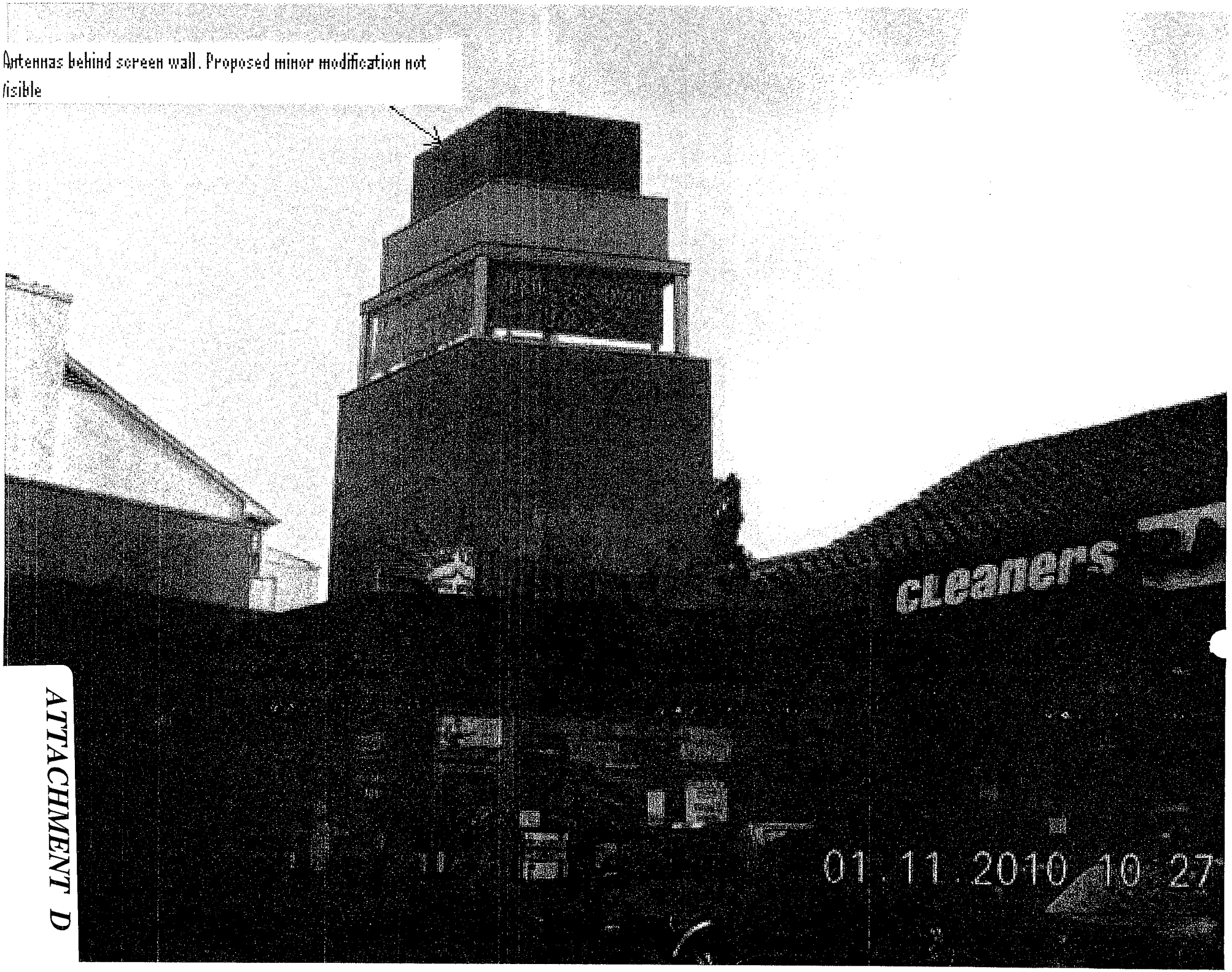
CONSULTANT:
LYLE
3140 GOLD CAMP DR, SUITE 30
RANCHO CORDOVA, CA 95670

DRAWN BY:	CHK.:	APV.:
HG	PP	SAS

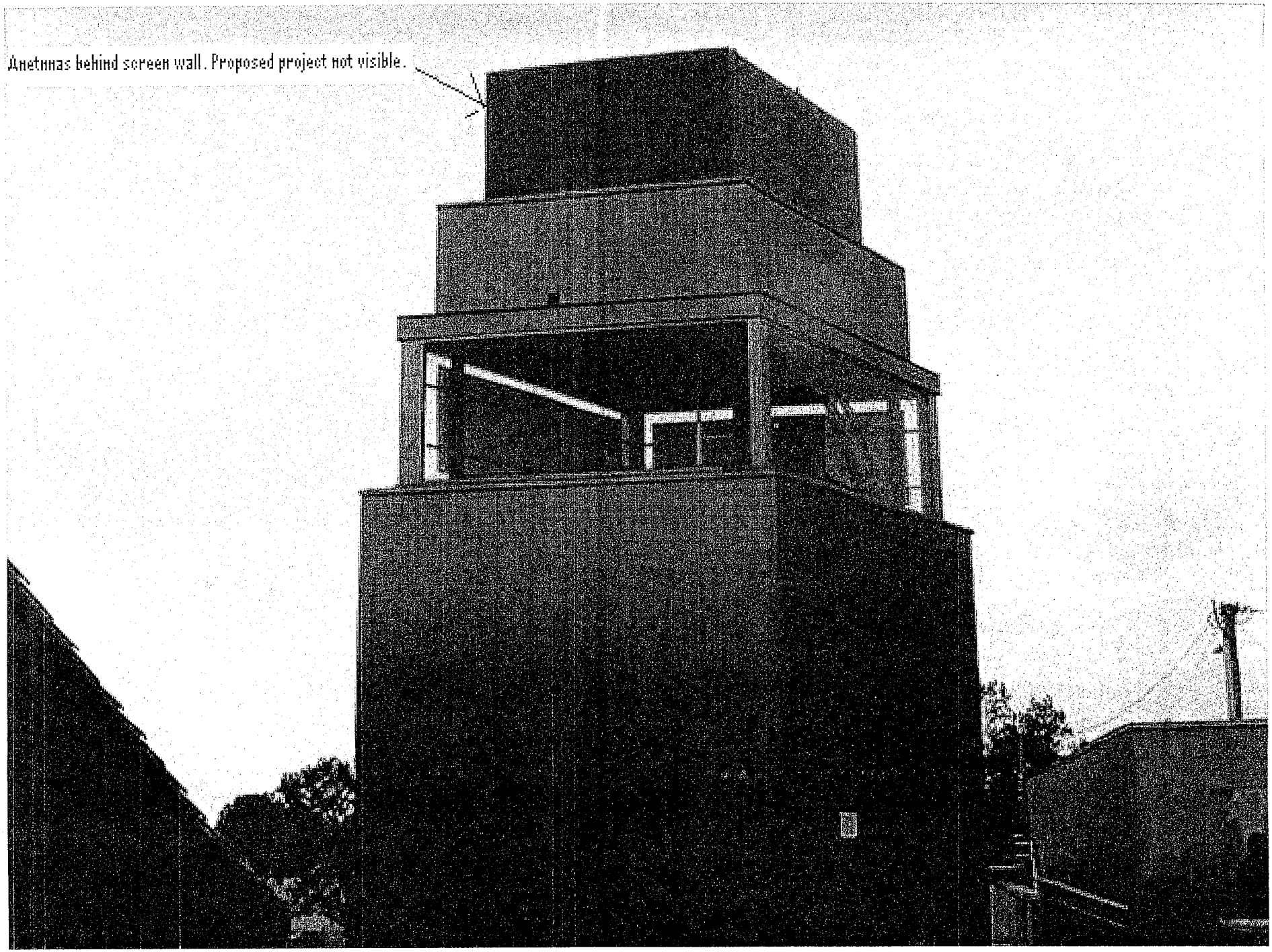
LICENSER:

SHEET TITLE: **GROUNDING NOTES AND DETAILS**

SHEET NUMBER: **E-2**



ATTACHMENT D


Antennas behind screen wall. Proposed project not visible.