

Staff Report to the Zoning Administrator

Application Number: 10-0122

Applicant: AT&T - Lisa Elliott **Owner:** County of Santa Cruz

APN: None

Agenda Date: 12/3/10 Agenda Item #: 4 Time: After 10:00 a.m.

Project Description: Proposal to replace two existing flat panel antennas mounted on a utility pole and to install an above ground equipment cabinet at an existing micro-cell wireless communications facility. Requires an amendment to Coastal and Commercial Development Permit 03-0414.

Location: Property located within the County right of way of La Selva Drive, across the street from the intersection with Dan's Drive in La Selva Beach.

Supervisoral District: 2nd District (District Supervisor: Ellen Pirie)

Permits Required: Coastal and Commercial Development Permit amendment

Staff Recommendation:

- Certification that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- Approval of Application 10-0122, based on the attached findings and conditions.

Exhibits

A. Project plans

B. Findings

C. Conditions

D. Categorical Exemption (CEQA determination)

E. Location, Zoning and General Plan

Maps

F. NIER Report

G. Comments & Correspondence

Parcel Information

Parcel Size:

N/A

Existing Land Use - Parcel:

Public right-of-way

Existing Land Use - Surrounding:

Highway One right-of-way, Residential neighborhood

Project Access:

La Selva Drive

Planning Area:

La Selva Beach

Land Use Designation:

R-M (Mountain Residential)

APN: None

Owner: County of Santa Cruz

Zone District:

SU (Special Use)

Supervisorial District:

2 (District Supervisor: Ellen Pirie)

Within Coastal Zone:

__ Outside X Inside

Appealable to Calif. Coastal Comm. X Yes

No

Environmental Information

Geologic Hazards:

N/A

Soils:

N/A

Fire Hazard:

N/A

Slopes:

N/A

Env. Sen. Habitat:

N/A

Grading:

No grading proposed

Tree Removal:

No trees proposed to be removed

Scenic:

Highway One Scenic Corridor - existing micro cellular installation on

utility pole, ground mounted box to be painted and screened by vegetation. No visual impact anticipated to scenic resources.

Drainage:

N/A

Archeology:

N/A

Services Information

Inside Urban/Rural Services Line:

X Yes __ No

Water Supply:

N/A

Sewage Disposal:

N/A

Fire District:

Aptos/La Selva Fire Protection District

Drainage District:

None

History

Coastal and Commercial Development Permit 03-0414 authorized a utility pole mounted microcell wireless communication facility at the project site. The wireless communication facility was installed under Building Permit 139608 and has been in operation since 2006. This application is a proposal to modify the prior approval through the replacement of two of the existing antennas and the installation of a ground mounted utility box.

Project Setting

The existing wireless communications facility is located on an existing utility pole within the right-of-way of La Selva Drive on the south side of Highway One.

Zoning & General Plan Consistency

The project site is located within the public right-of-way of La Selva Drive within the SU (Special Use) zone district and within the (R-M) Mountain Residential General Plan designation. Wireless communications facilities are a restricted category of use within the SU zone district (for parcels with a residential General Plan designation), but micro cellular wireless

APN: None

Owner: County of Santa Cruz

communications facilities on existing utility poles are allowed as an exception to the restricted areas prohibition. The inclusion of a ground mounted cabinet is allowed at a micro cellular wireless communication facility if the size does not exceed 100 cubic feet. The proposed cabinet is 95 cubic feet in size and complies with this requirement.

Local Coastal Program Consistency

The proposed modifications to the existing wireless communication facility are in conformance with the County's certified Local Coastal Program, in that the facility is located on an existing utility pole in a public right-of-way and the ground mounted cabinet will be camouflaged with an appropriate paint color and screened from view by existing and proposed vegetation. The project site is not located between the shoreline and the first public road and is not identified as a priority acquisition site in the County's Local Coastal Program. The proposed project will not interfere with public access to the beach, ocean, or other nearby body of water.

Design Review & Scenic Resources

The proposed modifications to the existing wireless communication facility comply with the requirements of the County Design Review Ordinance, and will not impact scenic resources such as the Highway One Scenic Corridor, in that the facility is located on an existing utility pole and the ground mounted cabinet will be camouflaged with an appropriate paint color and screened from view by existing and proposed vegetation. For these reasons, the improvements will blend with existing utilities infrastructure and surrounding landscaping to adequately mitigate any visual impact of the proposed development on surrounding land uses and the natural landscape.

Conclusion

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

Staff Recommendation

- Certification that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- APPROVAL of Application Number 10-0122, based on the attached findings and conditions.

Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: www.co.santa-cruz.ca.us

Application #: 10-0122 APN: None

Owner: County of Santa Cruz

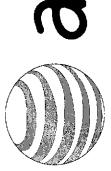
Report Prepared By: Randall Adams

Santa Cruz County Planning Department

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CONSULTANT TEAM

BLACK DOT WRRELESS 27271 1/8 RAMBIAS, S.IIIF, 270 BESTON ASJO CALPONIA 92891 PHONE (344) 502-1800 FAX: (342) 271-7940 CLIENTS REPRESENTATIVE

SITE ACQUISTIONE 1.64 FT 3TT PHONE (205) 505-2736

CONSTRUCTION MANAGER: KEIT-I BURKIARDE (ERGSGON) PHONE: (S10) NOF-7721i

ARCHITECT:

JETTRET ROLLE & ASSICIANTS
SUITE 13.0

FOR CONTROL CAUTOMA 2287

FOR CONTROL CAUTOMA 2287

FOR COLLARA (189) 727 2398

FAC (149) 727 2398

CONTACT ALLS POGRESON

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FAX. (MED) 674-1151
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LANDSCAPE ARCHITECT:

ROH BENDIT ASSOCIATES, LANDSCAPE ARCHITECTS SAS PARONA STREET SUITE: 5 PALO ALTO, CALIFORNIA 94.301 PHOME: (REST) 196-475P CONTACT: YON E. BENUTT

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CORONA, CHUTSHAA 92800
PHONE: (931) 250–9560
PMX (951) 200–974
COMMACT: CACOUNT 10590004 LAND SURVEYOR:

DEVELOPMENT SUMMARY

SHEET INDEX

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PROPRETARY INFORMATION

Arizona - California - Nevidu Arizone: (642) 296-5579 California: (949) 750-5229 Hevada: (702) 735-0059 Jeffrey Roma & Associates, Inc. くとつ

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SPECIFICATIONS

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3 STREPPING, BLOCKTS, BACKING AND OTHER KOWNEST SCHURLL LAWBOY SHALL BD HO, 2 OR STD ALBTH ORADO DOLOUGE ITS, SAS, 2X4 STGD WILLES SHALL BF D.R. STANDARD & PTR. ALL FRAMING LUMBER FOR DX FAZTERS AND JUSTS SHALL BE NO 2 GRADE DOJOJAS FIR, SAS, JALESS NOTED OTHERWISE ON DRAWINGS

3. BODE FLYNOOD SHALL MAYOH ENDING PLYNOOD SHEATHING WITH A NAME NEED OF THE STATE OF THE NAME WITH ALL IT OF THINKS NOTED OTHERWISE OF PLANS, FOIELD NAL WITH SELAT 12" OLD. 4. AL ERAMS, JUINIS AND RAFFRS SHALL RE, NISTATED MITS CRESWN SIRE OF

SHALL CONFORM TO PS 1 - 63. G. PLYMOOD SAFFTS NAME BY TAD WITH THE TABLE DRESS STADDERS, UNITES NOTED OF HERMOSE ON THE PLANS.

SCORE ALL MATERS SHALL BE COMMON WIRE NAULS 25-1-5 OF BUILDING CODE ALL MALS SHALL BE COMMON WIRE NAULS. B. THE MANIBUM WESTURE CONTEXT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.

ALL BOLTS SHALL HAVE STANDARD CUT WASHINGS UNDER HOADS AND/OR NULL WHERE IN CONTACT WITH WOOD LAC BOUTS SHALL BE SCRINGD INTO PLACE, NOT DRINCH, LAG BOUTS SHALL BE INSTALLED IN PRE-BRILLED HOLES WITH A GAMETER COURT TO 75X CAMETER OF BOLE.

COMMICTORIO ALL SPETT METAL PRAMAS CONVECTORIS SHOWN IN THE PARKS SHALL BY STRONG CONFECTORS AS ANYWER/ACTURED BY THE AMEN'S COLORANT SURVEILLERIES ANY IN: UNIT WHEN APPRIORID BY THE SHOUGHBAL PRIMARIES.

ALL LUNGER SPOSED TO WEATHER OR IN CONTROL WITH WASDINGT OR CONCRETE SHALL BE WOUNDYZOD PRESSURE TRAFFED LUNGO OA A MAUGALLY DEAN RESISTANT LUNGER SUCH AS REDWOOD OR CEAR.

14. EAGARN TELEV DONS REGENERABLE BEAGS.
A LANDON TONCO ASSESSMENT TONCO A

Jeffrey Borne & Associates, the くどつ

(602) 296-5579 (949) 760-3929 (702) 795-0059 Artzona • California • Nevada

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at&t 4430 Rosewook Jime Plazantor, Calforna 94588

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MAR MONTE DANS DRIVE ATAT UMTS OVERLAY

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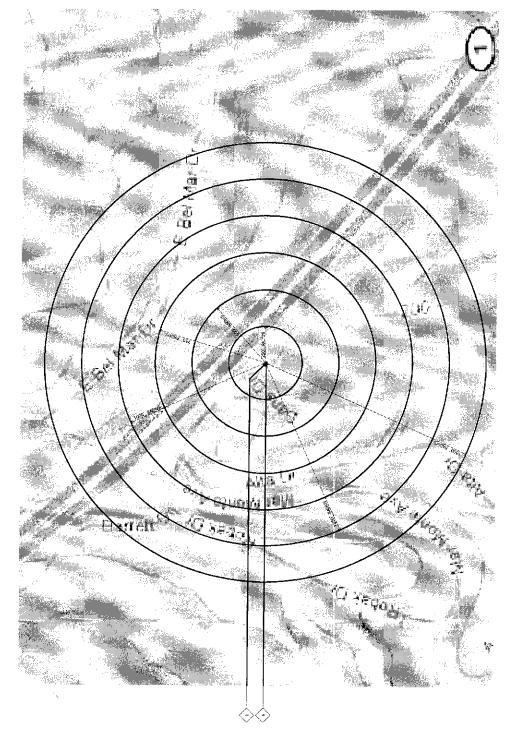
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SPECIFICATIONS AND NOTES

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VICINITY TOPOGRAPHIC MAP

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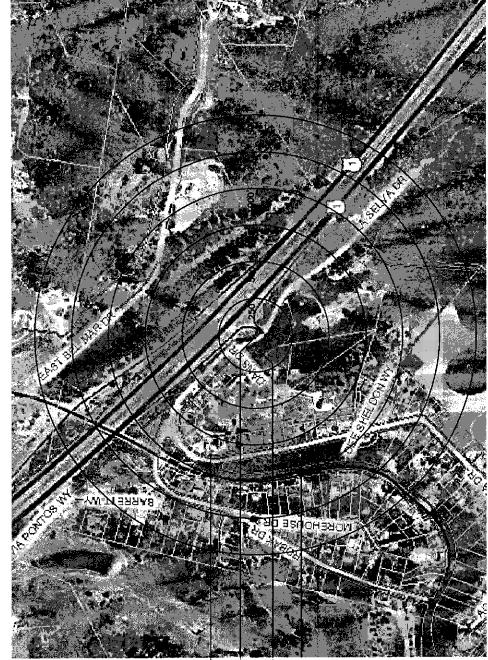
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SCALE: 1"=200'

VICINITY TOPOGRAPHIC MAP

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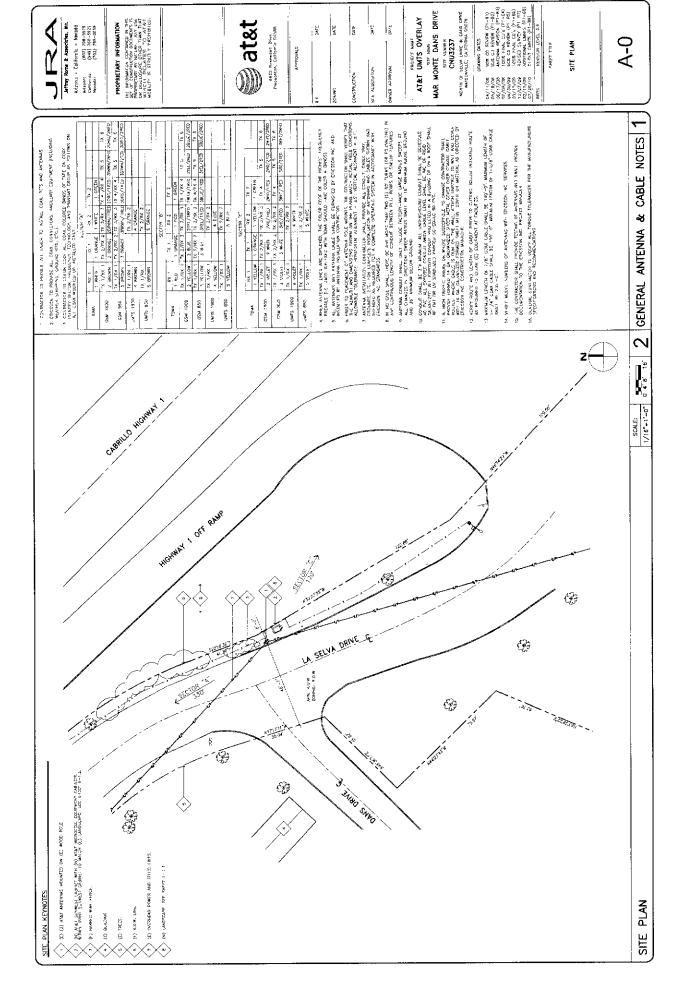
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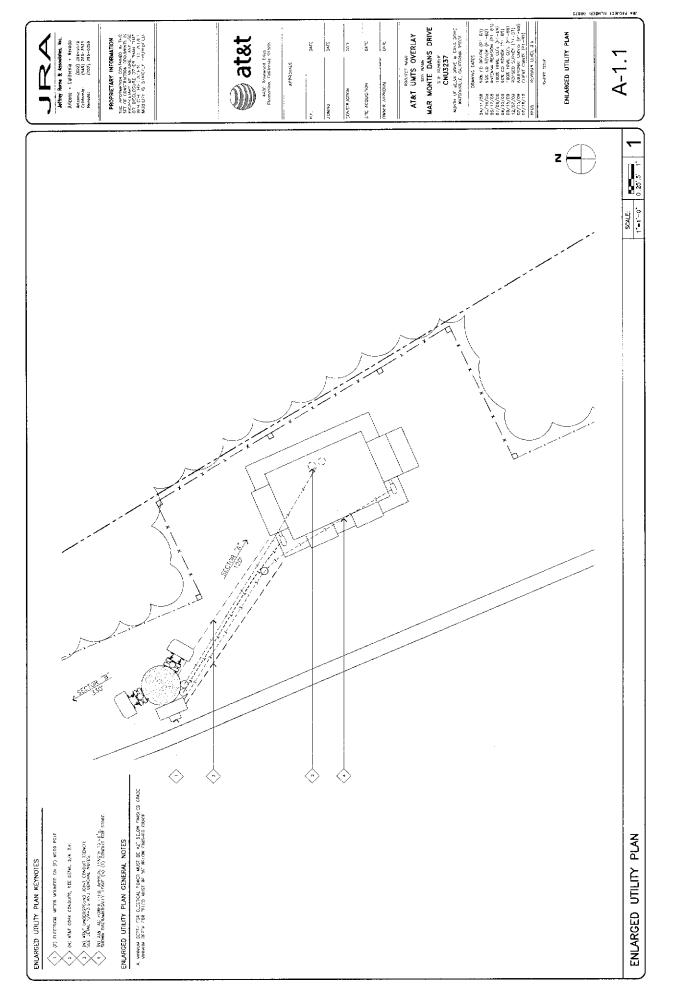
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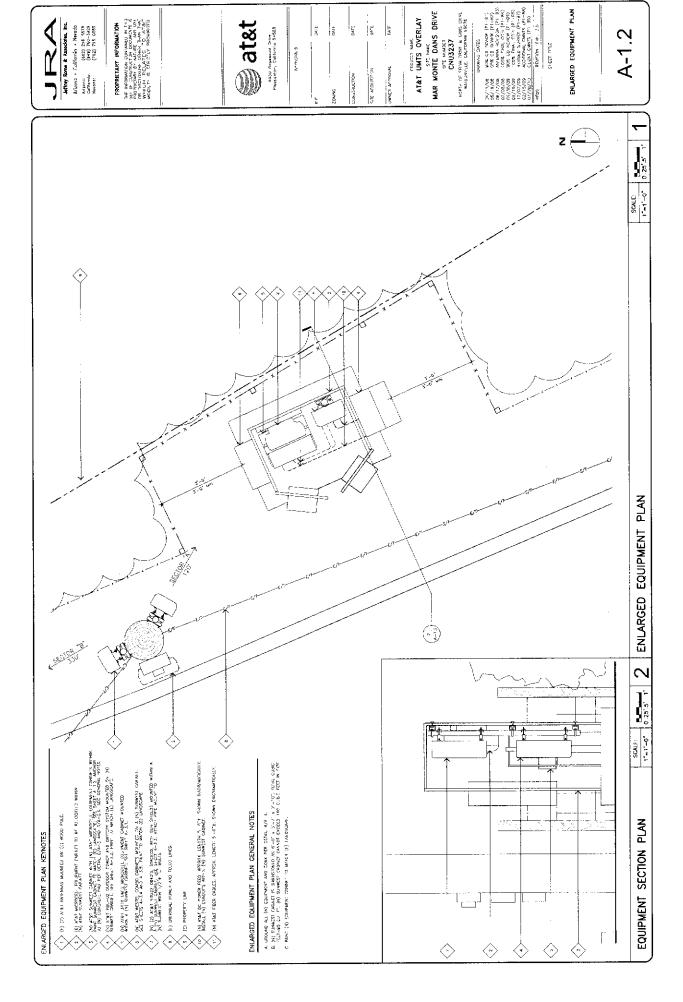
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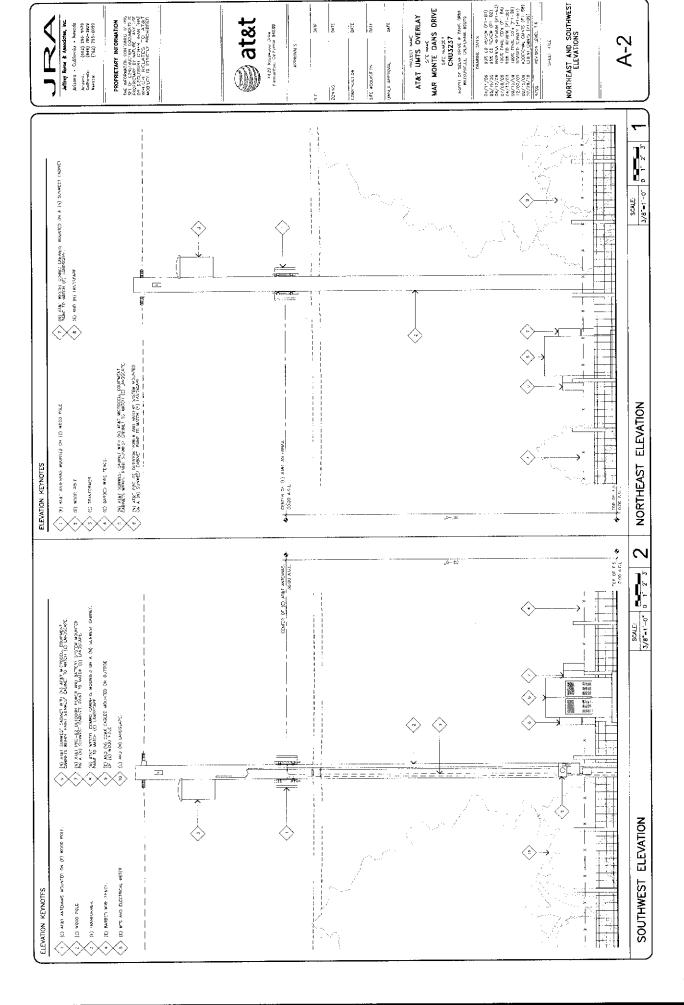
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RBS 3418

A Main Remote WCDMA Radio Base Station



The RBS 34/8 is an indoor RBS in the powerful and fletchen Main Remotive family from Encison. The RBS has a similar architecture are the other RBS 3000 products. The RBS can provise most coverage anticle in-building owerings for up to 6 sectors with 1 carrier or up to 3 sectors with 2 carriers.

I he man-remote concept separates the traditional RBS retirent into two rishinar IM entities. The radio specification into two rishinar IM entities. The radio specific HW for each sector is contained in a Remote Radio Unit (RRU), which is designed to be located near for amentur. The result of the RBS (control, 1986 Eard, switching and full interface party; is contained in a Main Unit. A min optical filter pair carrier connects each FRU to the Main Unit.

Lower CAPEX and OPEX
The RBS 3418 allows rectloed CAPEX costs
compared to a traditional Macro site due to:
• Smaller of no additional Mocro site due to:
• Smaller of no additional bodyrint required, just
install the RBS 3418 in a 19"
• No traditional alection required
• Smaller power supply and smaller battery
back up is required

- No ASC/TMA required.
- Less installation costs with carry to site modules

This makes easier site acquisition feasible leading to faster network roll out and faster revenues.

Compared with a Micro or Pico base station the pooled capacity, for base band, control and transmission, are shared between the

The OPEX will be reduced compared to a traditional Manor site due to a Feducad power consumption. Up to 40 percent less energy is required

THE INFORMATION CONTAINED IN THE TEST OF CONTRACTION DOCUMENTS IS PROPRESSARY BY NATURE. ANY USE OF DECLOSINE CHES THAN THAN WHICH RELIANS TO A LIETT MORELLY IS STRACTLY SOLVED.

PROPRIETARY INFORMATION

- Lower site rent Less need for site cooling

Key tentures
The RBs 3418 can be mounted in any 19" nock
and its 4U high. This can be any telecom rack, e.g.,
support cabinet. This could also be in a DSM RBS
asthinst

It is possible to connect different HRU types with Reinsteinnin definernt untrul nower for the same Minh Unit. The "Augment covers to Main Unit also supports due busin is, connection and an order of definition of different RRUs for different frequency bands.

The Main Unit supports star connection of the RRUs. The Main Unit and the RRU 22 are also HW prepared for supporting cascading.

Technical specifications for RBS 3418

Supported configurations
Number of sector carriers per Main Unit Downlink capacity Uplink capacity

I- 0 sectors : 1-2 carrier per sector. Max 640 channel elements Max 769 channel elements

Cabinet dimensions Height x Width x Deptn

Volume

Weight

Normal Operating Conditions

[emperature]

External Interface

Power supply:

48 Y DC, 100-259 V AC, 424 V DC

19" rack, wall

idio to 150°C 211.5 kg (45 lh)

Mauning type

Maximum distances

Main Unit - HOU Accusto None

< 38 dB LwA (at +25° C) c 43 dB LwA (at +40° C) E1/J1/T1 and E3/J2/T3

15 km

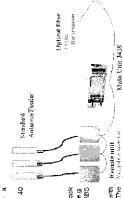
Transmission interfaces

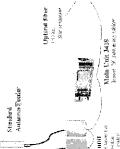
Ericsson AB SE 164 90 Stockholm

The Main Unit provides environmental protection and cooling via fans. If tas connections for the Nu interface. 6 optical tunes and external starms. The power options are 100-850 V. AO. –48 V. DC. and power DDC.

definey florne & Associates, Inc.

くとして Arizona - California - Nesado (602) 286-5579 [949] 780-3929 (702) 795-0058





at&t

44.30 Resewand Diver Pleasarton, Eathering 94588

STRABBER

5140 ZCNING

CONSTRUCTOR

SITE ACCOUNTED Series are obtain

126.7 (411) x 482.5 (10") x 270.8 mm (7 x 17.7 x 10.6 m)

20 liters

PA:F H

MAR MONTE DANS DRIVE AT&T UMTS OVERLAY

SITE NUMBER CNU3237

KORTH OF SELVA ERIVE A DANS GRIVE WAISONWELL, GALFORNA 95076

907 C3 REVEN (71-8)
985 C ROOM (11-82)
AFFANA FRONS A (71-83)
AFFANA FRONS A (71-83)
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\$1M-1/OC-3c Charuelized STM-1/OC 3 Mogallink

RBS 3418 SPECIFICATIONS

ELEGO : NIGHTH

A-3.1

7

SCALF: NON

287 01 -- FGC 181 8966 rev A © Ericsson AB, 2588

W 2025043

RES 3418 SPECIFICATIONS

Outdoor Power and Battery Backup System PBC-02

-48 V Output

The PBC 42 IDC power system is designed to supply a number of Place Base Stations with II-42 VIDC in auditors environments

PBC-42 prantitus security eganas AC course supply minimarkens, and the system features a very fexibes, easily scategole battery backup solution.

The PBC 42 is spoodoly designed for Editeson's new milition for graphics, it is mice their fix a VIZAMA Kern Perior applications. The section citi is not free to VIZAMA Kern Perior papelacides. The section citi is nevel to the conditions of militions and militions and the conditions as the conditions.

Cabrael design controller with mount outdays and is designed for yole minuted or with mount outdays applications. Indoor usage is of course also possible.

he system anticong approved dattenes is sarthquake proof.

Camate control

To opport the battery lifetime and bacouptiere the nathery areas are languaged as each appearant egulated from a property of the internal environment is control by self-power(No.).

Flexibility

Pre PGG (1)2 has four DC nutpolis for RBS, Remote Radio Units of stansories on londs

For grouper backup dames, the FBC-02 feature an add-on Markey, in the Case Case se electrically connociat to the PBC CE Main, brit RMB, Che BU can be required with the SML by more compact informing.

Supervision and Control The communication with the MSS is performed via binmity culput commission to with RBS is external hopful interface pains.

The FBC-02 regulations no specific RBS software.

System availability

veng with high MT8F essure a problemfree coaration

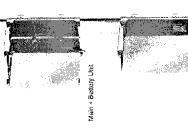
Suth AC hapt and all four DC outputs feature lighting.

Få., manskriversk skyared excest for exchange of balleries





Main + Battery Unit



2" Battery Unit

Technical specifications for Outdoor Power and Battery Backup System PBC-02

THE INFORMATION CONTAINED IN THE STOCK OF CONTRIBUTION OF STOCK OF SECURIOR CONTRIBUTION OF CO

PROPRIETARY INFORMATION

Arizona - Colifornia - Nesada antenno (802) 206—5078 Colifornia: (848) 750 7529 Hevana: (702) 795—0059 Jeffrey Rome & Associates, Inc.

A L

at&t

4435 Posewood Drive Pleasanton, California 04588 STRABUGAR

Moneau, 55,15 MD; Michael 143 No. 27,15 MD; MICHILI 255 W (RROW) E. 35 m. 15 °C. 27 5 lp 50 °F. — 1960 L. 255 W (RROW) E. 35 lb **; Fr. 27 5 lo 50 °F. ** In the majority carrier almost Dy the conversal busis Any single output can be protected and protection and the conversal busis. Any single output can integrated at the oblacity. One recut. From a rether PECCL2 in senso One output. System's "OK or "HOR", System HOK comprises an enther of anot General Egy. — deselves, hearnal coexistem", "more foults information codes" and leadly "more foults." incurred. TRBS and renfiguration decenvition. Penne control year lond. Eniztran office for more information. ICO 60721-2-5-Zansi 4, according to ICO 60368-2-7 sesuming proper installation and usage of PEC 02 approved batteries and accessories only. BAU - ERUTS PAIN
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- BAU - I MAD BUSINESS AND ARRANGES AND ARRANGE AND ARRA CE. U.E. 17. 200 206.2003. Teleboni centers and montridiscons centers. 8/16-51 % (180 VAC and higher) 30% 58% (190 + 140 VAC) No Park, no naive Pry 90080 1, UL 60360-1 - 03A 02012 was HD 80860-1 Names operator -33 to +45 tC (-37.4 to 113 fC). Safe aperation -03 to +65 tC (-27.4 to 13) 11). 15 = 100 fc. 20 -- 216 VAC (5 -- 65 Hz 280 VISC Plantemin Pregnated 8 100 Resulting backup and recharging lims. Maximum sunther of connected loads AC input

In the frequency

In a frequency

Non-destruction recitage

Sarge and same and protection:

Power latter. Surge and band on protection Rethery Characteristics Normal voltage Battery expectly Supervision and Confrol Dansesons (Wildlam) केपाए मेहनल एकाए क्रिकट्ट सहस्य क्रिक्सि Retative humidity: Audible noise level. Pole mand lyader: ENVIRONMENTAL Temperatuse range Efficiency DC Output Output rollage. LECtristostons MECHANICAL ELECTRICAL Output power. Earthquake Volume Safety: Weight

Telefonektebblagef LM Enceson SE: 126 25 Stockholm Sweden Teleschon	Fig. 4.6 8 18 40 85
Telefone SE-1267 Sweden	Ţ

2ST 01: FGC 101 865 Rev A

© Teleforakticbologet LM Erleeson 2006

PBC-02 SPECIFICATIONS

90% CO REDOCK (PI-B))
90% CO REDOCK (PI-B)
60% COME NOW (PI-B)
90% UL SCACK (PI-B)
90%

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MAR MONTE DANS DRIVE
STE NAMMER
CNU3237

AT&T UMTS OVERLAY

DWNER APPROVAL SOF ACQUISITION CONSTRUCTION

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A-3.2

KY LEGIECI ANABER: ORBAZ

PBC-02 SPECIFICATIONS

SCALE

RRU 22 XX40

Remote Radio Unit for WCDMA RBS



The RRU22 xx40 2 carrier 40 W Remate Radio Unit provides I carrier and 40 of nominal output power or a same and 20 W nominal supple power.
The HHU, which is designed to be located alose to the actions, contains the radio specific HW for each sector The real of the base straton (southet base band, switching and lub implicas parts) is contained in the Main Line, A thin optical fixely cable conhects. CASH ARE IN THE ABOVE

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ERICSSON %

TAKING YOU PORYGORD

The PEX.02. can be wall or pote mounted requiring ecoeds toop on The optical ingetace is passed on the Continuor Public Seals innerface. CFP.
If the conditions for AC or Co present the attemna luthors (for FC everypy) and optical life towards. the Main Unit

The FRUSZ xxelo provides an appearing souther for pits, werpinstons in one or invite of the following space, from our access, power suppy; and policy equations: At connections at elecated at the bottom of the

A Family of RRU22

Encoson provides a family of PRUs with support to six offerent frequency bands and nominal output power up to 40 M.

it is possible to mix offerent RRU types with different output power to the same Main Unit. Dual hand confidurations are also supported by

connecting RRUs for different frequency bands to the same Man their. The HRUs containment of the ratio processing herdware. The main parts of the RRU are the The RRUs coutain most of the radio processing hydrogram. The main parts of the radio processing hydrogram. The main parts of the RRUs and this.

Fifter Und

Ромаг Алариће

Transame for ARU22 1, st

Versions and supported Frequency Bands

RR 022 2140 TRUPS (1840) RRU22 09:10

RRU22 1940

RRU Naming Nomenclehure

タとう Leffrey Rome & Associates, Inc. (502) 296~55/8 (944) 760 :5479 (707) 795~0059

Arizona - California • Nevado

The Ericeson FRUs are named in the tellowing way RRUAR CDE

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PROPRIETARY INFORMATION

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E = Output power (N)

at&t

4436 Resewand Drün Pressorton, California 94588

3CPP Band II: FX: 1850 - 1910, TX: 1930 - 1990 MHz -3GPP Band I: RX 1920 - 1980, TX:2110 - 2170 MHz

309P/Band IV RX: 1710 - 1755. 1X: 2110 - 2155 (4) to 3(3PP Eand VIR- FIX: 880 - 915, TX: 925 - 990 MHz 302PP Band V. BX 824 - 649, TX 889 - 804 Mrs.

46.0 W (46.0 dBm) nominal 45.7 W (46.6 dBm) max

APPROXIS.

DATE

4 VC CONSTRUCTION

814 x 334 x 175 mm, (20.2 x 13.2 x 6.9 m)

571 x 368 x 268 mm, @2,4 x 14.4 x 10.4 ini

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33 Mers

Holofit, x Width x Dopth: (with sun shock and incenting beacksto);

Height x Width x Depth Without is in shield)

Cabinet dimensions

Volume (without surn offered)

Weight

ું કેવા કરો (૭૩૩ છો. 🚉 🔻 27 kg (59.5 lb)

122.5 dBm, (3GPP Band I, IV)
127.3 dBm, (3GPP Band II, IV)
127.8 dBm, (3GPF Band VII)

Beceiver sensitivity (typical)

3FU22 21, 10 Output Power 10 EA:E IE ACQUISITION WINES APPROVED AT&T UMTS OVERLAY

e la NA

-33°C to +e/0°C (plus 1120 W/m2 solar radiation)

Normal Operating Conditions without statestick and a second

emperature:

with sun sayed

SATE NAME MAR MONTE DANS DRIVE

SIT NUMBER CNU3237

NORTH OF SELVA URINE & CANS DRIVE WATSONNELL, CALIFORNIA 05076

ORAMINE DATES

typical 230 V/, grax 310 W -18 VIDC or 100-330 W.C.

CPR

Interface towards Notice B. External inharface

Pontage Supply:

Power consumption: Mounting type Maximum distances

Main Und -- FETU Acoustic Noise

COST FINA C-10+ sure/MS

Wall Poli-15,400

<58 d84 LWA (at +20° C) <65 5 d84 LWA (at +50° C)

908. CD REVIEW (21.81)
401.CO N. MORREW (21.82)
401.CO N. MORREW (21.82)
400.CO N. MORREW (21.83)
400.CO N. MORREW (21.83

RRU SPECIFICATIONS

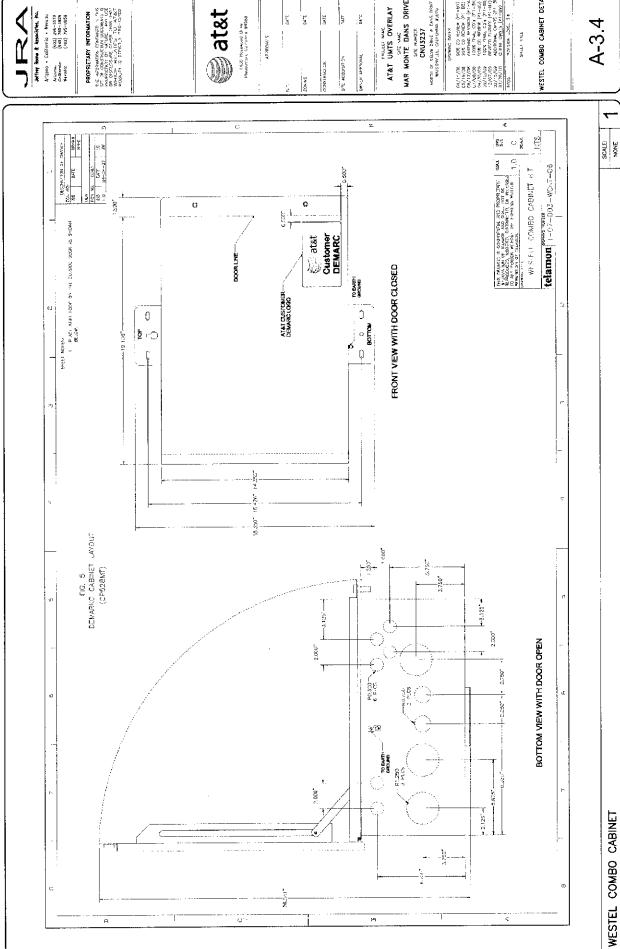
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RRU SPECIFICATIONS

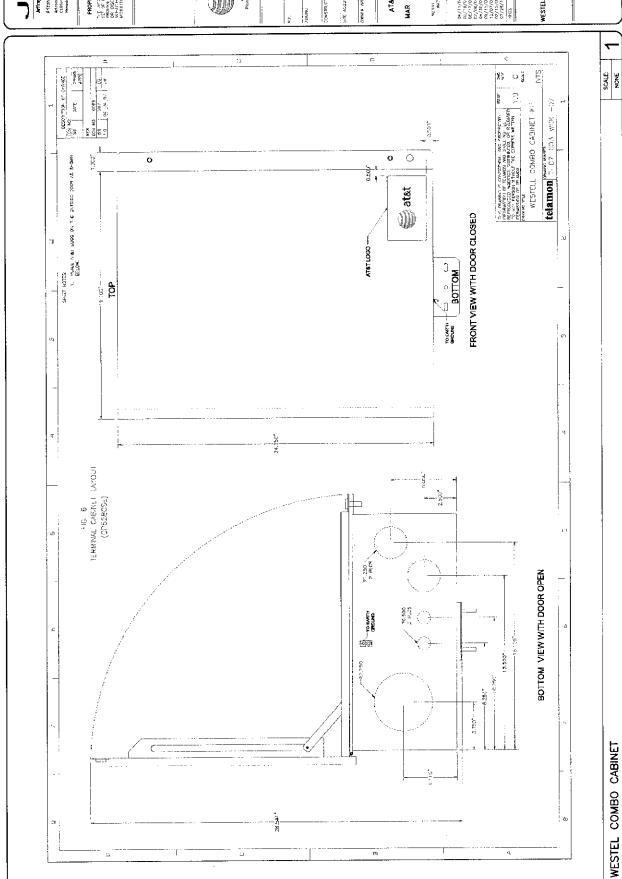
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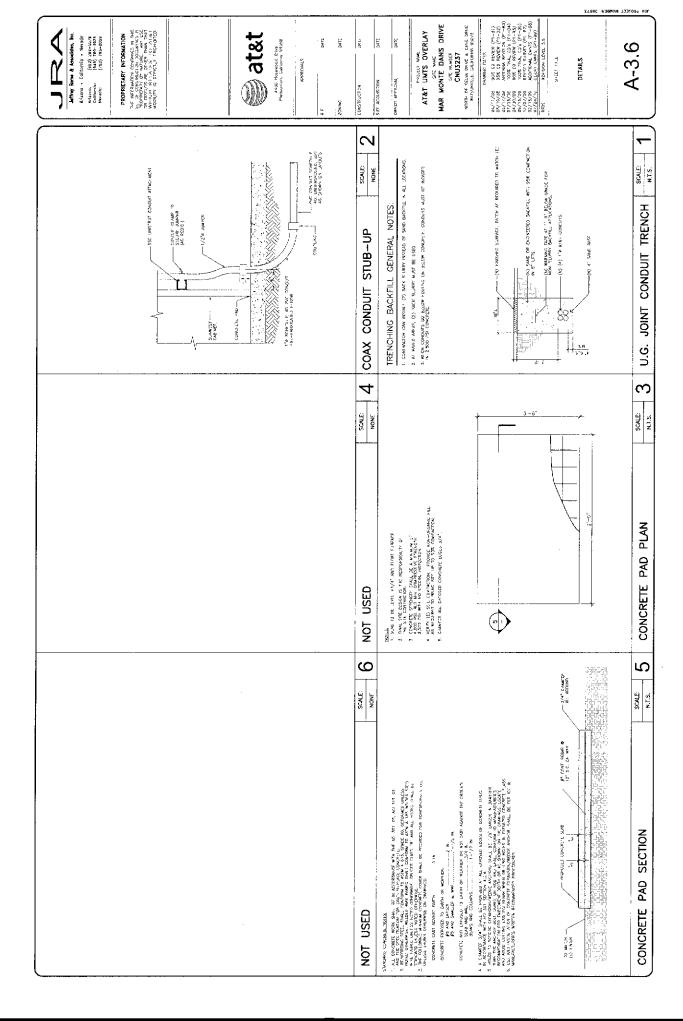
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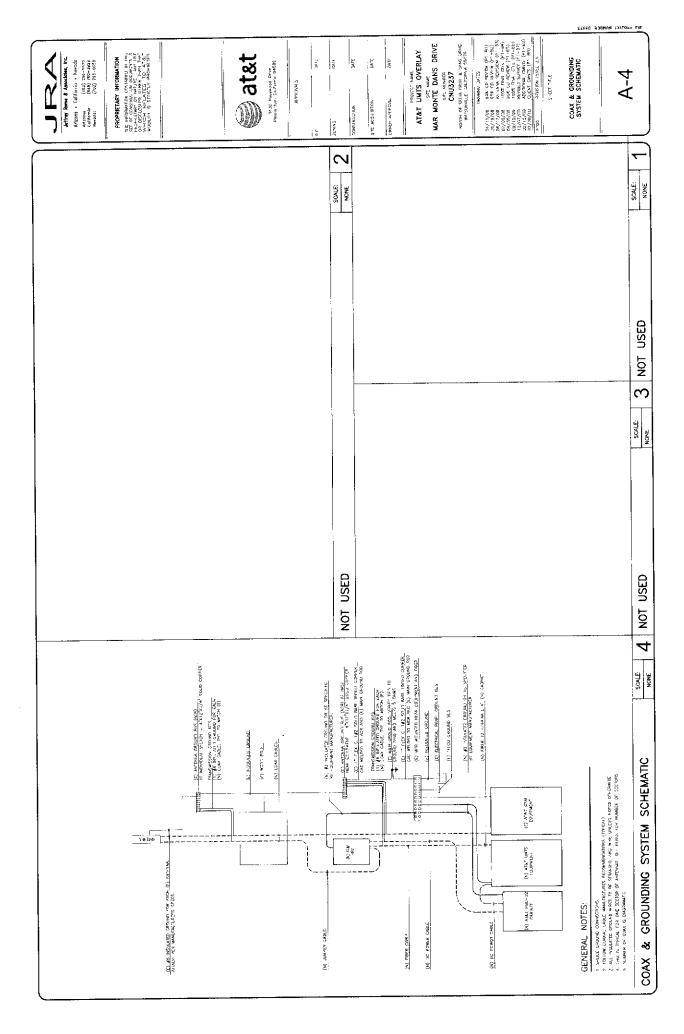
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WESTEL COMBO CABINET DETAIL

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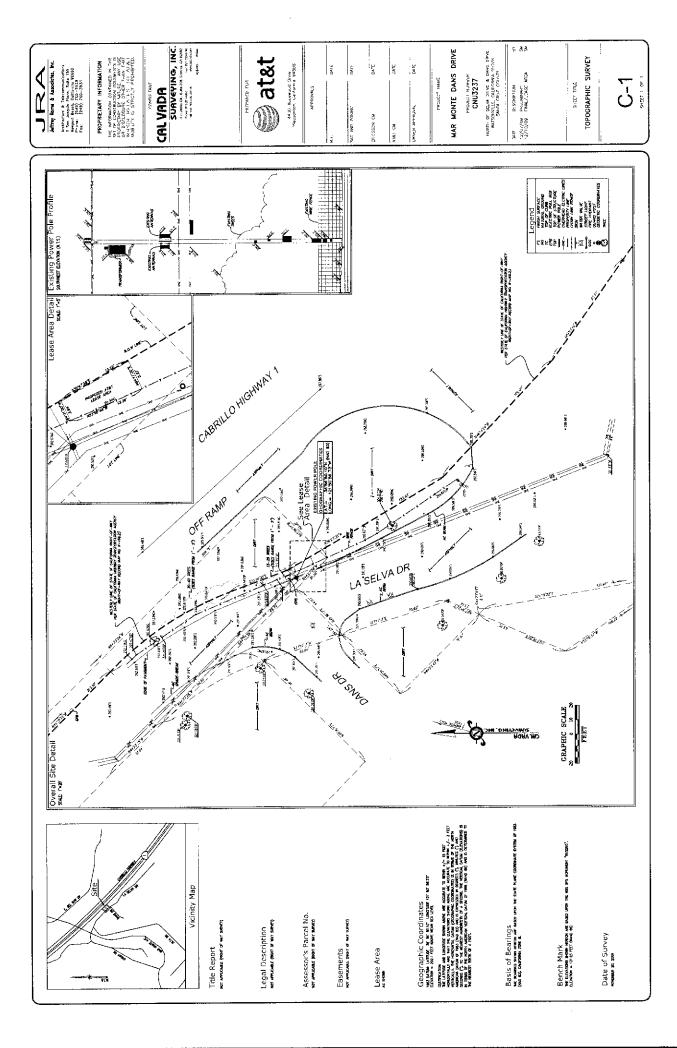
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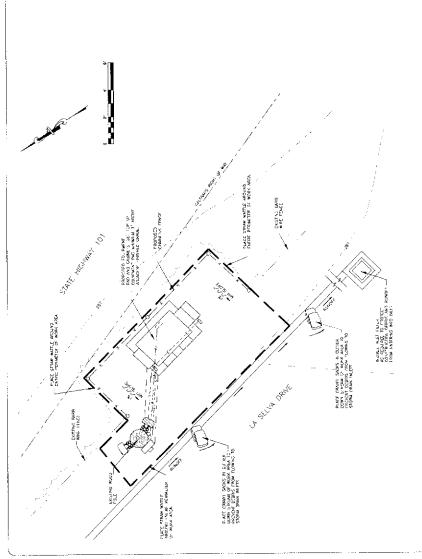
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GRADING AND EROSION CONTROL

APN: None

Owner: County of Santa Cruz.

Wireless Communication Facility Use Permit Findings

1. The development of the proposed wireless communications facility as conditioned will not significantly affect any designated visual resources, environmentally sensitive habitat resources (as defined in the Santa Cruz County General Plan/LCP Sections 5.1, 5.10, and 8.6.6.), and/or other significant County resources, including agricultural, open space, and community character resources; or there are no other environmentally equivalent and/or superior and technically feasible alternatives to the proposed wireless communications facility as conditioned (including alternative locations and/or designs) with less visual and/or other resource impacts and the proposed facility has been modified by condition and/or project design to minimize and mitigate its visual and other resource impacts.

This finding can be made, in that the existing micro cellular wireless communication facility is co-located on a utility pole to reduce visibility of the site and the footprint of the facility. The installation of a ground mounted cabinet will not impact visual or sensitive habitat resources in that the cabinet will be painted and screened by existing and proposed vegetation and the project is not located in an identified biotic resource area.

2. The site is adequate for the development of the proposed wireless communications facility and, for sites located in one of the prohibited and/or restricted areas set forth in Sections 13.10.661(b) and 13.10.661 (c), that the applicant has demonstrated that there are not environmentally equivalent or superior and technically feasible: (1) alternative sites outside the prohibited and restricted areas; and/or (2) alternative designs for the proposed facility as conditioned.

This finding can be made, in that the existing co-located micro cellular wireless communications facility is allowed as an exception to the restricted areas prohibition without the requirement of further alternatives analysis.

3. The subject property upon which the wireless communications facility is to be built is in compliance with all rules and regulations pertaining to zoning uses, subdivisions and any other applicable provisions of this title (County Code 13.10.660) and that all zoning violation abatement costs, if any, have been paid.

This finding can be made, in that the project site is located within a public right-of-way which is used for the purpose of public access and utilities infrastructure.

No zoning violation abatement fees are applicable to the subject property.

4. The proposed wireless communication facility as conditioned will not create a hazard for aircraft in flight.

This finding can be made, in that the existing wireless communications facility is located on an existing utility pole, which is approximately 44 feet in height, and this elevation is too low to interfere with an aircraft in flight.

APN: None

Owner: County of Santa Cruz

5. The proposed wireless communication facility as conditioned is in compliance with all FCC and California PUC standards and requirements.

This finding can be made, in that the maximum ambient RF levels at ground level due to the existing wireless communications facilities and the proposed operation are calculated to be 4.8 percent of the most restrictive applicable limit.

6. For wireless communication facilities in the coastal zone, the proposed wireless communication facility as conditioned is consistent with the all applicable requirements of the Local Coastal Program.

This finding can be made, in that the proposed modifications to the wireless communication facility are designed and located in a manner that will minimize potential impacts to scenic and biotic resources, and that the construction of the proposed facility will not impede access to the beach or other recreational resources.

APN: None

Owner: County of Santa Cruz

Coastal Development Permit Findings

1. That the project is a use allowed in one of the basic zone districts, other than the Special Use (SU) district, listed in section 13.10.170(d) as consistent with the General Plan and Local Coastal Program LUP designation.

This finding can be made, in that the existing co-located micro cellular wireless communications facility is allowed as an exception to the restricted areas prohibition without the requirement of further alternatives analysis. The project site is located within the SU (Special Use) zone district with a residential General Plan land use designation.

2. That the project does not conflict with any existing easement or development restrictions such as public access, utility, or open space easements.

This finding can be made, in that the proposal does not conflict with any existing easement or development restriction such as public access, utility, or open space easements in that the project is designed and coordinated to occupy space adjacent to existing utilities infrastructure.

3. That the project is consistent with the design criteria and special use standards and conditions of this chapter pursuant to section 13.20.130 et seq.

This finding can be made, in that the existing micro cellular wireless communication facility is co-located on a utility pole to reduce visibility of the site and the footprint of the facility. The installation of a ground mounted cabinet will not impact visual resources, in that the cabinet will be painted and screened by existing and proposed vegetation.

4. That the project conforms with the public access, recreation, and visitor-serving policies, standards and maps of the General Plan and Local Coastal Program land use plan, specifically Chapter 2: figure 2.5 and Chapter 7, and, as to any development between and nearest public road and the sea or the shoreline of any body of water located within the coastal zone, such development is in conformity with the public access and public recreation policies of Chapter 3 of the Coastal Act commencing with section 30200.

This finding can be made, in that the project site is not located between the shoreline and the first public road and the improvements are located on an existing utility pole and within a public right-of-way. Consequently, the wireless communications facility will not interfere with public access to the beach, ocean, or any nearby body of water. Further, the project site is not identified as a priority acquisition site in the County Local Coastal Program.

5. That the proposed development is in conformity with the certified local coastal program.

This finding can be made, in that the proposed modifications to the wireless communication facility are designed and located in a manner that will minimize potential impacts to scenic and biotic resources, and that the construction of the proposed facility will not impede access to the beach or other recreational resources.

APN: None

Owner: County of Santa Cruz

Development Permit Findings

1. That the proposed location of the project and the conditions under which it would be operated or maintained will not be detrimental to the health, safety, or welfare of persons residing or working in the neighborhood or the general public, and will not result in inefficient or wasteful use of energy, and will not be materially injurious to properties or improvements in the vicinity.

This finding can be made, in that the maximum ambient RF levels at ground level due to the wireless communications facility are calculated to be 4.8 percent of the most restrictive applicable limit.

The proposed project will not result in inefficient or wasteful use of energy, in that the most recent and efficient technology available to provide wireless communication services will be required as a condition of this permit. Upgrades to more efficient and effective technologies will be required to occur as new technologies are developed.

The project will not be materially injurious to properties or improvements in the vicinity in that the facility is co-located on an existing utility pole and the ground mounted cabinet will be camouflaged and screened from view to minimize potential visual impacts.

2. That the proposed location of the project and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the zone district in which the site is located.

This finding can be made, in that the existing co-located micro cellular wireless communications facility is allowed as an exception to the restricted areas prohibition without the requirement of further alternatives analysis. The project site is located within the SU (Special Use) zone district with a residential General Plan land use designation.

3. That the proposed use is consistent with all elements of the County General Plan and with any specific plan which has been adopted for the area.

This finding can be made, in that the existing micro cellular wireless communication facility is co-located on a utility pole to reduce visibility of the site and the footprint of the facility. The installation of a ground mounted cabinet will not impact visual or sensitive habitat resources in that the cabinet will be painted and screened by existing and proposed vegetation and the project is not located in an identified biotic resource area.

The subject property for the proposed project is located within the Highway One scenic corridor. The proposed project complies with General Plan Policy 5.10.3 (Protection of Public Vistas), in that the use of such co-located micro cellular wireless communication facilities minimizes the visual and environmental impacts associated with the construction of wireless communication facilities due to the small size of the proposed facilities and the presence of an existing pole and utilities infrastructure. The existing public views from the scenic highway will remain relatively unchanged as a result of this project.

APN: None

Owner: County of Santa Cruz

The property is located in the Mountain Residential (R-M) land use designation, which is implemented by and consistent with the SU (Special Use) zone district of the project site.

A specific plan has not been adopted for this portion of the County.

4. That the proposed use will not overload utilities and will not generate more than the acceptable level of traffic on the streets in the vicinity.

The project will not require the use of public services such as water or sewer, but will require electric power and telephone connections. The facility will require inspection by maintenance personnel at least once per month and this will not result in increasing traffic to unacceptable levels in the vicinity.

5. That the proposed project will complement and harmonize with the existing and proposed land uses in the vicinity and will be compatible with the physical design aspects, land use intensities, and dwelling unit densities of the neighborhood.

This finding can be made, in that the existing facility is co-located on a utility pole and the ground mounted cabinet will be camouflaged and screened from view by existing and proposed landscaping. This proposed design will adequately mitigate any potential visual impacts to the surrounding neighborhood.

6. The proposed development project is consistent with the Design Standards and Guidelines (sections 13.11.070 through 13.11.076), and any other applicable requirements of this chapter.

This finding can be made, in that the existing micro cellular wireless communication facility is co-located on a utility pole to reduce visibility of the site and the footprint of the facility. The installation of a ground mounted cabinet will not impact visual resources, in that the cabinet will be painted and screened by existing and proposed vegetation.

APN: None

Owner; County of Santa Cruz

Conditions of Approval

Exhibit A: Project Plans, entitled, "AT&T UMTS Overlay - Mar Monte/Dans Drive", 20 sheets, prepared by Jeffrey Rome & Associates, revised 7/12/10.

- I. This permit authorizes modifications to an existing wireless communications facility as indicated on the approved Exhibit "A" for this permit and as modified by these conditions. This approval amends Coastal and Commercial Development Permit 03-0414 and all required conditions of approval for that permit are hereby incorporated into these conditions of approval by reference. This approval does not confer legal status on any existing structure(s) or existing use(s) on the subject property that are not specifically authorized by this permit. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
 - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
 - B. Obtain a Building Permit from the Santa Cruz County Building Official.
 - 1. Any outstanding balance due to the Planning Department must be paid prior to making a Building Permit application. Applications for Building Permits will not be accepted or processed while there is an outstanding balance due.
 - C. Obtain an Encroachment Permit from the Department of Public Works for all work performed in the County road right-of-way.
 - D. Submit proof that these conditions have been recorded in the official records of the County of Santa Cruz (Office of the County Recorder) within 30 days from the effective date of this permit.
- II. Prior to issuance of a Building Permit the applicant/owner shall:
 - A. Submit final architectural plans for review and approval by the Planning Department. The final plans shall be in substantial compliance with the plans marked Exhibit "A" on file with the Planning Department. Any changes from the approved Exhibit "A" for this development permit on the plans submitted for the Building Permit must be clearly called out and labeled by standard architectural methods to indicate such changes. Any changes that are not properly called out and labeled will not be authorized by any Building Permit that is issued for the proposed development. The final plans shall include the following additional information:
 - 1. One elevation shall indicate materials and colors as they were approved by this Discretionary Application. The applicant shall supply a color and material sheet in 8 1/2" x 11" format for Planning Department review and approval.

APN: None

Owner: County of Santa Cruz

a. The proposed equipment cabinet shall be camouflaged by painting the exterior of the cabinet a single shade of brown, green, or tan color to blend with the surrounding natural landscape.

- b. Antennas shall be painted to match the color of the existing utility pole.
- 2. Grading, drainage, and erosion control plans.
- 3. Landscape plan including the following:
 - a. Native and drought tolerant landscape plantings, consistent with the surrounding natural vegetation, to screen the proposed equipment cabinet from view.
 - b. Methods proposed to protect the existing oak trees adjacent to the utility pole.
- 4. Details showing compliance with fire department requirements.
- B. Submit four copies of the approved Discretionary Permit with the Conditions of Approval attached. The Conditions of Approval shall be recorded prior to submittal, if applicable.
- C. Meet all requirements of the County Department of Public Works, Stormwater Management.
- D. Meet all requirements and pay any applicable plan check fee of the Aptos/La Selva Fire Protection District.
- III. All construction shall be performed according to the approved plans for the Building Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:
 - A. All site improvements shown on the final approved Building Permit plans shall be installed.
 - B. All inspections required by the building permit shall be completed to the satisfaction of the County Building Official.
 - C. Pursuant to Sections 16.40.040 and 16.42.100 of the County Code, if at any time during site preparation, excavation, or other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director

APN: None

Owner: County of Santa Cruz

if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.100, shall be observed.

IV. Operational Conditions

- A. The exterior finish and materials of the wireless communication facility must be maintained on an annual basis to continue to blend with the existing utilities infrastructure. Additional paint and/or replacement materials shall be installed as necessary to blend the wireless communication facility with the existing utilities infrastructure.
- B. All landscaping planted on the project site for screening purposes must be maintained in perpetuity. Additional plantings and/or replacement plantings shall be installed as necessary if any of the screening vegetation dies, is removed, or otherwise does nor provide adequate screening of the proposed improvements.
- C. The operator of the wireless communication facility must submit within 90 days of commencement of normal operations (or within 90 days of any major modification of power output of the facility) a written report to the Santa Cruz County Planning Department documenting the measurements and findings with respect to compliance with the established Federal Communications Commission (FCC) Non-Ionizing Electromagnetic Radiation (NEIR) exposure standard. The wireless communication facility must remain in continued compliance with the NEIR standard established by the FCC at all times. Failure to submit required reports or to remain in continued compliance with the NEIR standard established by the FCC will be a violation of the terms of this permit.
- D. The use of temporary generators to power the wireless communication facility are not allowed.
- E. If, in the future, the pole based utilities are relocated underground at this location, the operator of the wireless communication facility must abandon the facility and be responsible for the removal of all permanent structures and the restoration of the site as needed to re-establish the area consistent with the character of the surrounding natural landscape.
- F. If, as a result of future scientific studies and alterations of industry-wide standards resulting from those studies, substantial evidence is presented to Santa Cruz County that radio frequency transmissions may pose a hazard to human health and/or safety, the Santa Cruz County Planning Department shall set a public hearing and in its sole discretion, may revoke or modify the conditions of this permit.
- G. If future technological advances would allow for reduced visual impacts resulting from the proposed telecommunication facility, the operator of the wireless communication facility must make those modifications which would allow for reduced visual impact of the proposed facility as part of the normal replacement

APN: None

Owner: County of Santa Cruz

schedule. If, in the future, the facility is no longer needed, the operator of the wireless communication facility must abandon the facility and be responsible for the removal of all permanent structures and the restoration of the site as needed to re-establish the area consistent with the character of the surrounding natural landscape.

- H. Any modification in the type of equipment shall be reviewed and acted on by the Planning Department staff. The County may deny or modify the conditions at this time, or the Planning Director may refer it for public hearing before the Zoning Administrator.
- I. A Planning Department review that includes a public hearing shall be required for any future co-location at this wireless communications facility.
- J. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.
- V. As a condition of this development approval, the holder of this development approval ("Development Approval Holder"), is required to defend, indemnify, and hold harmless the COUNTY, its officers, employees, and agents, from and against any claim (including attorneys' fees), against the COUNTY, it officers, employees, and agents to attack, set aside, void, or annul this development approval of the COUNTY or any subsequent amendment of this development approval which is requested by the Development Approval Holder.
 - A. COUNTY shall promptly notify the Development Approval Holder of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. COUNTY shall cooperate fully in such defense. If COUNTY fails to notify the Development Approval Holder within sixty (60) days of any such claim, action, or proceeding, or fails to cooperate fully in the defense thereof, the Development Approval Holder shall not thereafter be responsible to defend, indemnify, or hold harmless the COUNTY if such failure to notify or cooperate was significantly prejudicial to the Development Approval Holder.
 - B. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
 - 1. COUNTY bears its own attorney's fees and costs; and
 - 2. COUNTY defends the action in good faith.
 - C. <u>Settlement</u>. The Development Approval Holder shall not be required to pay or perform any settlement unless such Development Approval Holder has approved the settlement. When representing the County, the Development Approval Holder

APN: None

Owner: County of Santa Cruz

shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the County.

D. <u>Successors Bound</u>. "Development Approval Holder" shall include the applicant and the successor'(s) in interest, transferee(s), and assign(s) of the applicant.

Minor variations to this permit which do not affect the overall concept or density may be approved by the Planning Director at the request of the applicant or staff in accordance with Chapter 18.10 of the County Code.

Please note: This permit expires three years from the effective date listed below unless a building permit (or permits) is obtained for the primary structure described in the development permit (does not include demolition, temporary power pole or other site preparation permits, or accessory structures unless these are the primary subject of the development permit). Failure to exercise the building permit and to complete all of the construction under the building permit, resulting in the expiration of the building permit, will void the development permit, unless there are special circumstances as determined by the Planning Director.

Steven Guiney Deputy Zoning Administrator	Randall Adams Project Planner
Expiration Date:	
Effective Date:	
Approval Date:	

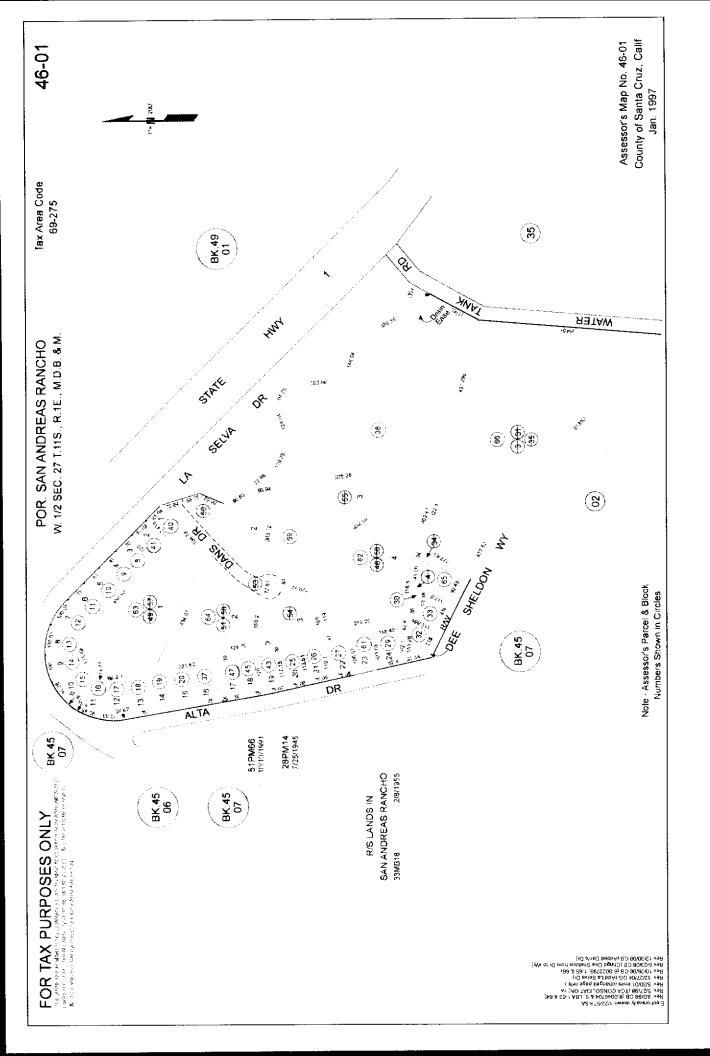
Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Zoning Administrator, may appeal the act or determination to the Planning Commission in accordance with chapter 18.10 of the Santa Cruz County Code.

CALIFORNIA ENVIRONMENTAL QUALITY ACT NOTICE OF EXEMPTION

The Santa Cruz County Planning Department has reviewed the project described below and has determined that it is exempt from the provisions of CEQA as specified in Sections 15061 - 15332 of CEQA for the reason(s) which have been specified in this document.

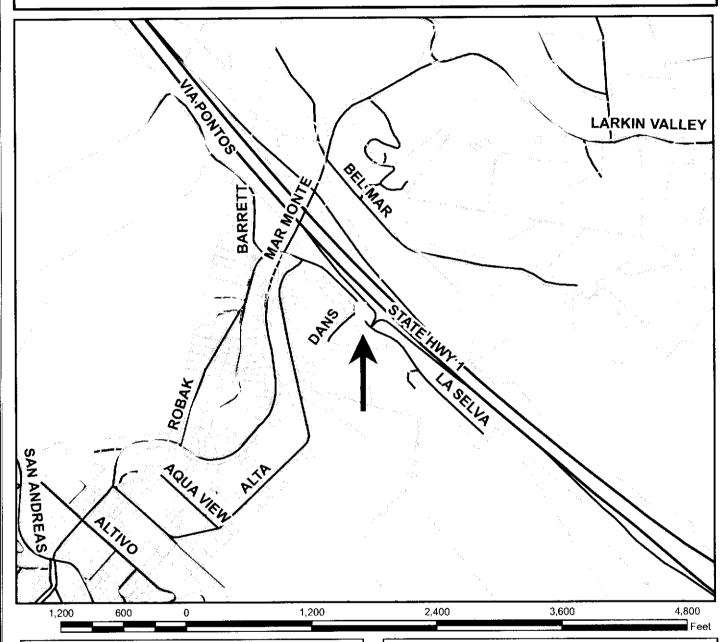
Application Number: 10-0122

	tel Number: None ion: No Situs (La Selva Drive right of way)					
Project Description: Proposal to replace existing antennas and install a ground mounted utility box.						
Person or Ag	ency Proposing Project: AT&T - Lisa Elliott					
Contact Pho	ne Number: (209) 605-2736					
A B	The proposed activity is not a project under CEQA Guidelines Section 15378. The proposed activity is not subject to CEQA as specified under CEQA Guidelines Section 15060 (c).					
C	Ministerial Project involving only the use of fixed standards or objective measurements without personal judgment.					
D	<u>Statutory Exemption</u> other than a Ministerial Project (CEQA Guidelines Section 15260 to 15285).					
Specify type:						
E. <u>X</u>	Categorical Exemption					
Specify type:	Class 1 - Existing Facilities (Section 15301)					
F. Reaso	ons why the project is exempt:					
Minor improv	rements at an existing wireless communications facility.					
In addition, ne	one of the conditions described in Section 15300.2 apply to this project.					
	Date:					
Kandall Adan	ns, Project Planner					





Location Map



LEGEND

Subject Property

Assessors Parcels

Streets

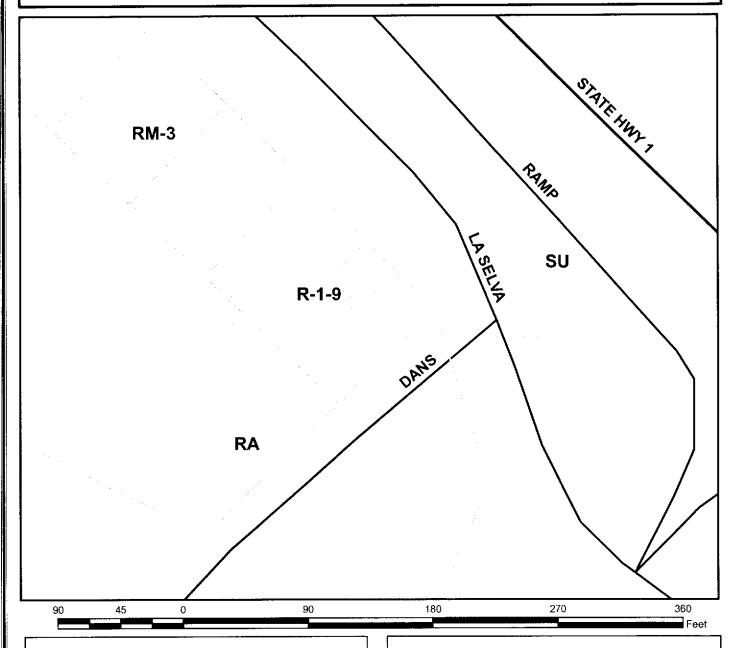
State Highways



Map Created by County of Santa Cruz Planning Department April 2010



Zoning Map



LEGEND

Subject Property

Assessors Parcels

Streets

State Highways

SPECIAL USE

RESIDENTIAL-MULTI FAMILY

RESIDENTIAL-SINGLE FAMILY

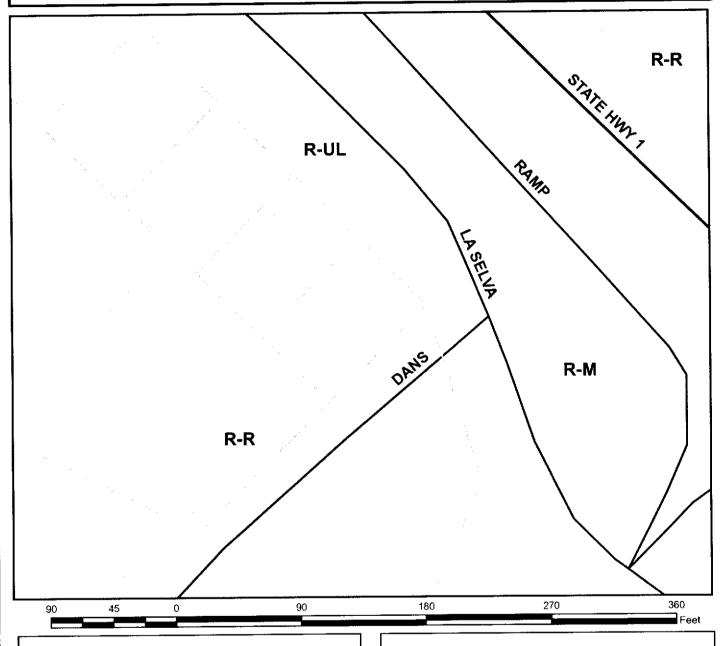
AGRICULTURE RESIDENTIAL



Map Created by County of Santa Cruz Planning Department April 2010



General Plan Designation Map



LEGEND

Subject Property

Assessors Parcels

----- Streets

State Highways

Residential-Mountain

Residential - Urban Low Density

Residential-Rural



Map Created by County of Santa Cruz Planning Department April 2010



FEDERAL COMMUNICATIONS COMMISSION (FCC) COMPLIANCE STUDY ON NON-IONIZING ELECTROMAGNETIC RADIATION (NIER) EXPOSURE

Prepared for:



CNU3237 MAR MONTE DANS DRIVE NORTH OF SELVA DRIVE & DANS DRIVE WATSONVILLE, CA 95076



SITE DESCRIPTION:

Carrier:	AT&T
Address:	North of Selva Drive & Dans Drive, Watsonville, CA 95076
Type of Service:	850 MHz GSM, UMTS (Broadband PCS)
Sectors:	330°, 120°
Antenna Type:	Kathrein 742 226
Number of Antennas:	2 (1 per sector)
Maximum Power:	500 W (Maximum ERP per technology per sector)
Antenna Height:	30°± (Radiation center AGL)

Table 1. AT&T RF summary

AT&T is proposing to deploy new UMTS services in addition to the existing GSM services at its own wireless communications facility at the above described location (Figure 1). The existing antennas will be replaced with two new Kathrein panel antennas at 30' above ground level. One new outdoor equipment cabinet will be installed on a concrete pad within the existing fenced compound. Access to the facility is restricted to authorized personnel only.

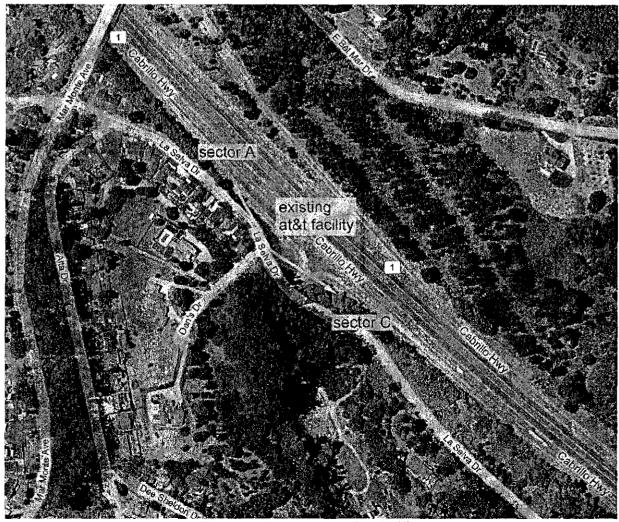


Figure 1. Area surrounding facility



PROTOCOL:

This study, and the calculations performed therein, is based on <u>OET Bulletin 65</u>¹ which adopts ANSI C95.1-1992 and NCRP standards. In particular, equation 10 from section 2 of the guideline is used as a model (in conjunction with known antenna radiation patterns) for calculating the power density at different points of interest. This information will be used to judge the RF exposure level incident upon the general population, and any employee present in the area. It should be noted that ground reflection of RF waves has been taken into account.

FCC'S MAXIMUM PERMISSIBLE EXPOSURE (MPE) LIMIT:

In order to evaluate the RF exposure level, the power densities at different locations of interest have been examined. Equation 10 from Bulletin 65 is reproduced here as equation 1:

$$S = \frac{33.4F^2 ERP}{R^2}$$
 (1)

Where:

 $S = Power density [\mu W/cm^2]$

ERP = Effective radiated power [W]

R = Distance[m]

F = Relative field factor (relative numeric gain)

Scenario 1: Maximum Exposure near facility

The RF exposure level for a six-foot tall person standing near the AT&T facility is analyzed. For the worst-case scenario, we assume that the facility will radiate the maximum number of channels for all the technologies at the same time, with each channel at its maximum power level. Please refer to scenario 1 in appendix A for the complete geometry and analysis. The highest exposure location is found to be approximately 136' from the wood pole. The calculations of the maximum cumulative RF power densities are shown in Table 2.

Service	Max. ERP	\mathbf{F}^2	R (m)	S (µW/cm²) (from eq. 1)	MPE %
850 MHz GSM	500 W	-1 dB (0.7943)	42.1	7.4699	1.2879
850 MHz UMTS	500 W	-1 dB (0.7943)	42.1	7.4699	1.2879
		Total			2.5758

Table 2. Worst-case predicted power density values for scenario 1.

The Maximum Permissible Exposure (MPE) limit for 850 MHz PCS facility for general population/uncontrolled exposure is 580 μ W/cm². At this location, the power density from the facility is calculated to be 2.58% of the MPE limit.

¹ Cleveland, Robert F, et al. <u>Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields.</u> OET Bulletin 65, Edition 97-01, August 1997.
² Ibid., page 67.



Scenario 2: Maximum Exposure on nearby buildings

There is low density residential housing in the surrounding area. The RF exposure level on the rooftop of the nearest building is evaluated. Please refer to scenario 2 in appendix A for the complete geometry and analysis. Again, we assume all antennas are transmitting with maximum power level at the same time. Also, the building is assumed to be within the main beam path of the antennas. The calculations for this location are summarized in Table 3. The maximum power density is calculated to be 4.80% of the MPE limit.

Service	Max. ERP	\mathbf{F}^2	R (m)	S (µW/cm²) (from eq. 1)	MPE %
850 MHz GSM	500 W	-3 dB (0.5012)	24.5	13.9304	2.4018
850 MHz UMTS	500 W	-3 dB (0.5012)	24.5	13.9304	2.4018
	<u></u>	Total	<u> </u>		4.8036

Table 3. Worst-case predicted power density values for scenario 2.

Conclusion:

There is a relatively low level of RF energy directed either above or below the horizontal plane of the antennas. Under "worst-case" conditions, the calculations shown above predict that the maximum possible RF exposure is 4.80% of the MPE limit. There will be less RF exposure at other locations near or away from the compound. Therefore, the proposed modification to the AT&T wireless communications facility will comply with the general population/uncontrolled limit.

FCC COMPLIANCE:

Only trained persons will be permitted to access the facility and the antennas. They will be made fully aware of the potential for RF exposure and can choose to exercise control over their exposure that is within the occupational/controlled limits which is 5 times higher than the uncontrolled limits.

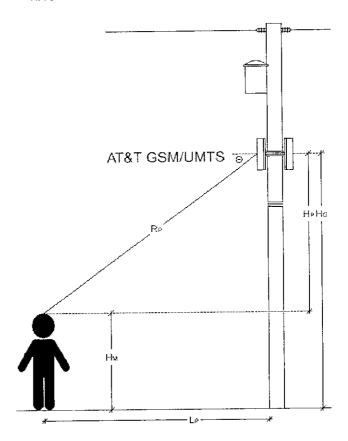
The general population/uncontrolled exposure near the facility, including persons on the ground level, in nearby open areas, the highway and inside or on existing nearby buildings will have RF exposure much lower than the "worst-case" scenario, which is only a small percentage of the MPE limit.

Septomber 23, 2009

Sei Yuen Sylvan Wong, PE

California PE Reg. No. E 16850

Scenario 1: Standing Near The Facility



 $L_P = H_P \times tan^{-1}(\Theta)$

 $R_P = H_P \times \sin^{-1}(\Theta)$

 $F^2 =$ Relative Field Factor at Θ

person's height (H_M) = 6 ft

At $\Theta = 75^{\circ}$, the exposure location at ground from the wood pole $L_{P} = 6^{\circ}$ ft

Service Provider	Height He, ft	Height	Max. ERP	Angle Θ		F ²		R _P (m)	S (µW/cm2)	MPE%
AT&T 850 MHz GSM	30.00	24.00	500.0	⊖ = 75	-21	dB (0.0079)	7.6	2.2962	0.3959
AT&T 850 MHz UMTS	30.00	24,00	500.0	Θ = 75	-21	dB (0.0079)	7.6	2.2962	0,3959
7.1,4.7 555 33112 5117.5		L				_		Total		0.7918

At Θ = 60°, the exposure location at ground from the wood pole $L_2 = 14$

Service Provider	Height H _{Gr} ft	Height H _P , ft	Max. ERP	Angle F ²		R _P (m)	S (µW/cm2)	MPE%
AT&T 850 MHz GSM	30.00	24.00	500.0	⊖ = 60 °	-15 dB (0.0316)	8.5	7.3908	1.2743
AT&T 850 MHz UMTS	30.00	24.00	500.0	Θ = 60°	-15 dB (0.0316)	8.5	7.3908	1.2743
71131 305 31112 511110		L				Total		2.5486

At Θ = 45 °, the exposure location at ground from the wood pole $L_P = 24$ ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Θ		R _P (m)	S (µW/cm2)	MPE%
AT&T 850 MHz GSM	30.00	24.00	500.0	Θ= 45°	-18 dB (0.0158)	10.4	2.4632	0.4247
AT&T 850 MHz UMTS		24.00	500.0	⊖ = 45°	-18 dB (0.0158)	10.4	2.4632	0.4247
						Total		0.8494

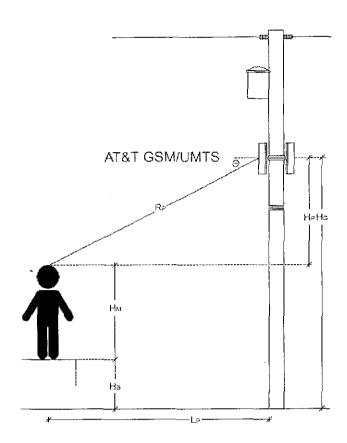
At Θ = 30°, the exposure location at ground from the wood pole L_F = 42 ft

Service Provider	Height H _{Gr} ft	Height	Max. ERP	A	Angle F ²		R _P (m)	S (µW/cm2)	MPE%		
AT&T 850 MHz GSM	30.00	24.00	500.0	Θ=	30 °	-14	dB (0.0398)	14.6	3.1054	0.5354
AT&T 850 MHz UMTS	30,00	24.00	500.0	Θ=	30 °	-14	dB (0.0398)	14.6	3.1054	0.5354
74101 000 11112 01117 -		1	·						Total		1.0708

At Θ = 10 °, the exposure location at ground from the wood pole L_P = 136 ft

Service Provider	Height H _G , ft	Height	Max. ERP	Angle Θ	Angle F ²		R _P (m)	S (µW/cm2)	MPE%
AT&T 850 MHz GSM	30.00	24.00	500.0	Θ = 10 '	-1	dB (0.7943)	42.1	7.4699	1.2879
AT&T 850 MHz UMTS	30.00	24.00	500.0	Θ= 10 '	-1	dB (0.7943)	42.1	7.4699	1.2879
		-					Total		2.5758

Scenario 2: Nearby Buildings/ Rooftops



 $L_P = H_P \times tan^{-1}(\Theta)$

 $R_P = H_P x \sin^{-1}(\Theta)$

 F^2 = Relative Field Factor at Θ person's height (H_M) = 6 ft

Nearest residential building within Sector A

He= 16 ft (80 ft from the wood pole)

н _в = 16 π (en it from the	wood pole)		_							
Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	A	ngle Θ		F	2	R _P (m	S (μW/cm2)	MPE%
AT&T 850 MHz GSM	30.00	8.00	500.0	Θ=	6	· -3	dB (0.5012) 24.5	13.9304	2.4018
AT&T 850 MHz UMTS	30.00	8.00	500.0	Θ=	6	-3	dB (0.5012) 24.5	13.9304	2.4018
									Tota	ı	4.8036



65° Dualband Directional Antenna

Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS. These cross-polarized antennas offer diversity operation in the same space as a conventional 800 MHz antenna, and are mountable on our compact sector brackets.

- · Wide band operation.
- · Exceptional intermodulation characteristics.
- High strength pultruded fiberglass radome.

General	specifications:
aciici ai	Specifications.

Frequency range	806–960 MHz 1710–2170 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	4 x 7-16 DIN female
Isolation intrasystem intersystem	>30 dB >45 dB (806–960 // 1710–2170 MHz)
Weight	16.5 lb (7.5 kg)
Dimensions	22,8 x 10.3 x 5.5 inches (579 x 262 x 139 mm)
Equivalent flat plate area	1.73 ft² (0.161 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	29 x 11.9 x 7.6 inches (736 x 302 x 192 mm)
Shipping weight	21 lb (9.5 kg)
Mounting	Fixed mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts. Panel may be inverted.

806-960 MHz Vertical pattern Horizontal pattern ±45°-polarization ±45°-polarization 1710-2170 MHz Vertical pattern Horizontal pattern ±45°-polarization

Specifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dBi	11.4 dBi	11.8 dBi	12.8 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio co-polar total power (180° ± 30°)	>23 dB >20 dB	>23 dB >20 dB	>25 dB >22 dB	>25 dB >22 dB	>25 dB >22 dB	>25 dB >22 dB
Maximum power per input	250 watts (at 50°C)	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	67° (half-power)	66° (half-power)	64° (half-power)	66° (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	34° (half-power)	33° (half-power)	30° (half-power)	20° (half-power)	18° (half-power)	17.5° (half-power)
Cross polar ratio Main direction 0° Sector ±60°	25 dB (typical) >10 dB	25 dB (typical) >10 dB	25 dB (typical) >10 dB	16 dB (typical) >10 dB	18 dB (typical) >10 dB	20 dB (typical) >10 dB

±45°-polarization





^{*}Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

COUNTY OF SANTA CRUZ Discretionary Application Comments

Project Planner: Randall Adams

Date: October 19, 2010

Time: 16:14:42 Application No.: 10-0122 Page: 1 APN: NO APN SPEC **Environmental Planning Completeness Comments** ===== REVIEW ON APRIL 29. 2010 BY ROBERT S LOVELAND ======== NO COMMENT **Environmental Planning Miscellaneous Comments** ===== REVIEW ON APRIL 29 2010 BY ROBERT S LOVELAND ======= NO COMMENT **Dpw Drainage Completeness Comments** LATEST COMMENTS HAVE NOT YET BEEN SENT TO PLANNER FOR THIS AGENCY ===== REVIEW ON APRIL 30. 2010 BY GERARDO VARGAS ======= **Dpw Drainage Miscellaneous Comments** LATEST COMMENTS HAVE NOT YET BEEN SENT TO PLANNER FOR THIS AGENCY ====== REVIEW ON APRIL 30. 2010 BY GERARDO VARGAS ======= No comment **Dpw Driveway/Encroachment Completeness Comments** ====== REVIEW ON MAY 7. 2010 BY DAVID GARIBOTTI ======== Please indicate with specificity the proposed use of the new equipment and cabinet. Dpw Driveway/Encroachment Miscellaneous Comments ====== REVIEW ON MAY 7, 2010 BY DAVID GARIBOTTI ======= Note on plans "AT&T shall cut vegetation back to back of curb from the southern intersection with the highway off ramp to the northern limits of the project, and shall be maintained year round to improve sight distance." ====== UPDATED ON MAY 7, 2010 BY DAVID GARIBOTTI ====== Note on plans "AT&T shall cut down vegetation from back of curb to the fence line. This shall extend from the highway off ramp intersection to the northern limits of the project. To improve and maintain sight distance this shall be repeated whenever the vegetation reaches a height of 30 inches. **Dpw Road Engineering Completeness Comments** ===== REVIEW ON APRIL 27. 2010 BY RODOLFO N RIVAS ======= NO COMMENT **Dpw Road Engineering Miscellaneous Comments**

Discretionary Comments - Continued

Project Planner: Randall Adams

Date: October 19, 2010

COUNTY OF SANTA CRUZ

Planning Department

INTEROFFICE MEMO

APPLICATION NO: 10-0122

Date:

May 5, 2010

From:

Larry Kasparowitz, Urban Designer

Re:

Equipment additions to a cell site at Dans Drive, Aptos

No comments.



Aptos/La Selva Fire Protection District

6934 Soquel Drive • Aptos, CA 95003 Phone # 831-685-6690 • Fax # 831-685-6699

April 21, 2010

Planning Department County of Santa Cruz Attention: Randall Adams 701 Ocean Street Santa Cruz, CA 95060

Subject: APN: none / Appl #10-0122

Dear Mr. Adams:

Aptos/La Selva Fire Department has reviewed the plans for the above cited project and has no objections as presented.

A plan review fee of \$50.00 is due and payable to the Aptos/La Selva Fire Department PRIOR TO APPROVAL of building application. Reminder: the enclosed Permit/Service Fees form must be submitted to the Aptos/La Selva Fire Department at time of payment.

- Any other requirements will be addressed in the Building Permit phase.
- Plan check is based upon plans submitted to this office. Any changes or alterations shall be resubmitted for review prior to construction.

Sincerely,

Jim Dias, Fire Marshal Fire Prevention Division

Aptos/La Selva Fire Protection District

Cc:

County of Santa Cruz - Department of Public Works

701 Ocean Street

Santa Cruz, CA 95060

Cc:

Lisa Elliott

17180 Sycamore Avenue Patterson, CA 95363