

Staff Report to the Zoning Administrator

Application Number: 08-0256

Applicant: James Cosgrove

Owner: Camille and Timothy Washovich

APN: 040-271-62

Agenda Date: 2/06/08

Agenda Item #: 3

Time: After 10:00 a.m.

Project Description: Proposal to recognize a 48 foot monopole with antenna, three panel antennas installed on the deck supports of an existing single family dwelling, existing equipment building with exterior air conditioning unit, installation of one new antenna on the monopole, and the reuse and conversion of one existing GSM antenna for use as a UMTS antenna on the existing deck support. The project requires a Development Permit.

Location: The property is located on the west side of Skyward Drive (685 Skyward Drive), within the Aptos Planning Area.

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

Permits Required: Development Permit

Technical Reviews: None

Staff Recommendation:

- Certification that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- Approval of Application 08-0256, based on the attached findings and conditions.

Exhibits

A. Project plans
B. Findings
F. Zoning map/General Plan map
G. Existing Site Photos

C. Conditions H. NIER Report, dated May 30, 2008

D. Categorical Exemption (CEQA I. Alternative Site Analysis Material

determination) J. Comments & Correspondence

E. Location and Assessor's parcel map

Parcel Information

Parcel Size: 2.9 acres (EMIS Estimate)

Existing Land Use - Parcel: Residential

Existing Land Use - Surrounding: Residential

County of Santa Cruz Planning Department 701 Ocean Street, 4th Floor, Santa Cruz CA 95060

Owner: Camille and Timothy Washovich

Project Access:

Skyward Drive, 40 foot right-of-way access

Planning Area:

Aptos

Yes

Land Use Designation:

RR (Rural Residential)

Zone District:

RA (Residential Agriculature)

Coastal Zone:

__ Inside ___x_ Outside

Appealable to Calif. Coastal Comm.

x No

Environmental Information

Geologic Hazards:

Not mapped/no physical evidence on site, though area elsewhere on

the site is identified on the Cooper Clark Landslide map.

Environmental Planning staff had no comments or concerns regarding

this application.

Soils:

N/A

Fire Hazard:

Not a mapped constraint

Slopes:

N/A

Env. Sen. Habitat:

Not mapped/no physical evidence on site

Grading:

No grading proposed

Tree Removal:

No trees proposed to be removed

Scenic:

Not a mapped resource

Drainage:

Existing drainage adequate

Archeology:

Not mapped/no physical evidence on site

Services Information

Urban/Rural Services Line:

Inside

x Outside

Water Supply:

Well

Sewage Disposal:

Septic

Fire District:

Aptos La Selva Fire Protection District

Drainage District:

N/A, Natural

History

Application 98-0031 recognized a 48 foot monopole with an antenna, a generator, and a 250 gallon propane tank, three panel antennas installed on a single-family dwelling deck support, and an equipment storage building as part of an existing un-permitted cellular transmission facility. The facility has operated ever since approval of the use permit, though a building permit was never issued and the use permit was not exercised and does not have a valid use permit to operate today.

Project Setting

The project site is approximately 2.9 acres in size with access via a 40' right-of-way that travels through the center of the parcel and services 4 additional parcels. The site slopes steeply from the north to the south and is forested with oak, fir, and redwoods.

The cell facility consists of three panel antennas that are attached to the exterior of the house on

Owner: Camille and Timothy Washovich

the deck supports, as shown on the project plans and attached photo, Exhibit G. The equipment shelter is comprised of an approximately 220 square foot enclosed equipment building, approximately 23'4" in length by 9 wide by 11'6" feet in height and is surrounded on three sides by a four (4) foot high retaining wall. This facility does not currently include a propane tank or generator as originally conceived. The equipment cabinets and a generator receptacle are located within the structure and an exterior air conditioning unit is attached to the building. The 48 foot monopole is located adjacent to the equipment shelter. The equipment shelter, monopole, and house antennas are located approximately 130 feet from the nearest residential dwelling.

Project Proposal

The current application seeks to recognize the existing facility. The applicant proposes to add one new 5.5 inch by 10.3 inch by 54 inch (4.5 feet) antenna below the existing antenna on the monopole, one UMTS equipment cabinet within the equipment building, and to reuse one of the existing GSM antennas on the dwelling deck support as a UMTS antenna. The facility also shows a generator receptacle, though plans do not include a generator.

Zoning & General Plan Consistency

Cell Facility on a Residentially Zoned Parcel

Pursuant to County Code Section 13.10.661(c), parcels zoned Residential Agriculture are subject to the "Restricted Area" requirements. These code sections, 13.10.661(c) (3) and 13.10.661 (d), discourage non-collocated facilities, with exception that non co-located facilities are permitted within this zone district provided that an alternative analysis is submitted pursuant to County Code Section 13.10.662(c).

Alternatives Analysis

An alternative site analysis is a document that provides an evaluation of a number of cell sites with the intent of demonstrating that the proposed cell site provides more superior cell coverage than other sites and also most limits site visibility to surrounding properties and minimizes visual impacts. This site is unique in that it is an existing site currently operated by AT&T and was previously approved under Permit 98-0031, but not fully exercised because the building permit was not issued by the Planning Department. The applicant provided a rationale for this location within this context noting that this site was originally selected because it provides superior coverage and would leave a gap in the coverage if another site is required to be developed today. Site coverage mapping information and an email, attached as Exhibit I, are provided and serve as the alternatives site analysis that support this location selection. Mapping information show coverage provided for this carrier at this location. Staff concurs with the applicant with regard to site selection based on the information provided and does not recommend additional evaluation of other sites. Furthermore, another site would only be recommended by staff if the selected site would result in significant visual impacts to surrounding properties or to a sensitive scenic corridor or other impacts associated with the site that could not be mitigated. This site is not visible to any scenic corridor or to surrounding properties given the existing mature trees between properties.

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Noise Considerations

Staff was contacted by a neighbor in a phone call following neighborhood noticing. In particular, the neighbor complained of noise related to this site during the night. Staff visited the site again and noted the existing air conditioning unit attached to the exterior of the equipment building and listened to the AC unit during operation. This AC unit requires additional noise evaluation, but in the absence of a noise study, it is recommended that this unit be removed from this facility. Furthermore, the project is conditioned to prohibit a generator and the proposed generator receptacle from this site to avoid these same noise issues. This will ensure that batteries are provided as the means of back-up for this facility during power outages.

Radiofrequency (RF) Exposure

An RF report, as required by the Wireless Communications Ordinance, is attached as Exhibit H. This report evaluates the existing facility (post construction levels) and evaluates projected emission levels (pre-construction). The existing and proposed levels are within FCC prescribed limits as shown on Table 2 of the report. The maximum level does not exceed 36% of the most restrictive public limit at ground level. The maximum exposure on nearby buildings is projected to be approximately .75 percent of the most restrictive limit established by the Federal Communications Commission.

Section 47 USC 332(c)(7)(iv) of the Telecommunications Act of 1996 prohibits jurisdictions from regulating the placement, construction, or modification of Wireless Communications Facilities based on the environmental effects of RF emissions if these emissions comply with FCC standards.

Setbacks

The following setbacks apply to this property based on the Residential Agriculture zone district.

	Front	Side	Interior Right-of-Way	Rear
Required	40'	20'	20'	20'
Proposed	220'	North Side-80', South Side- 160'	60' from road edge, 45' from r/w edge	350'

The improvements comply with all required setbacks. The existing pole and equipment building are also located in proximity to an interior right-of-way and are subject to the 20 foot street side yard setback. The existing improvements are setback approximately 60 feet back from the edge of the roadway and approximately 45 feet from the right-of-way.

Design Review

The proposed facility will comply with the requirements of the County Design Review Ordinance, in that the equipment building and monopole are screened from adjacent residential properties by existing vegetation as noted in the site photos provided and attached as Exhibit G.

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No visual mitigations are necessary for the proposed site. Please see attached Design Review, Exhibit J.

Environmental Review

Environmental review is not required for the proposed development. A CEQA exemption form is attached as Exhibit D for staff signature and filing with the Clerk of the Board following approval.

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 08-0256, 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

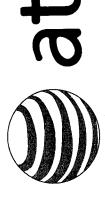
Report Prepared By: Sheila McDaniel

Santa Cruz County Planning Department

701 Ocean Street, 4th Floor Santa Cruz CA 95060

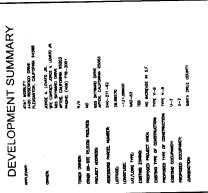
Phone Number: (831) 454-3439

E-mail: sheila.mcdaniel@co.santa-cruz.ca.us



CNU3498/JACKSON OVERLAY 685 SKYWARD DRIVE APTOS, CALIFORNIA 95003

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VICINITY MAP

SITE# CNU3496

ARCHITECT:

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DRAWNEG DATES 04/24/08 80% OD BEVEW (P1-81) 09/22/06 100% FMAL CD's (P1-82)

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CONSULTANT TEAM

SPECIAL INSPECTIONS

CLIENTS REPRESENTATIVE: BLACK DOT WIRELESS
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FRANE, CALPORAN \$2802
FRUNE: (949) 502-3000
FAXE (949) 271-7840

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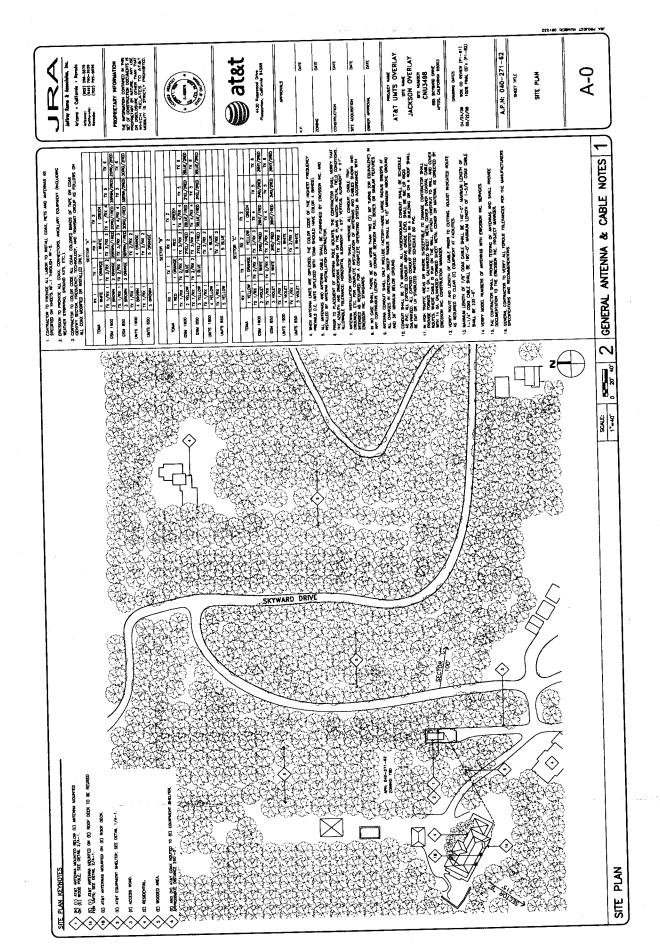
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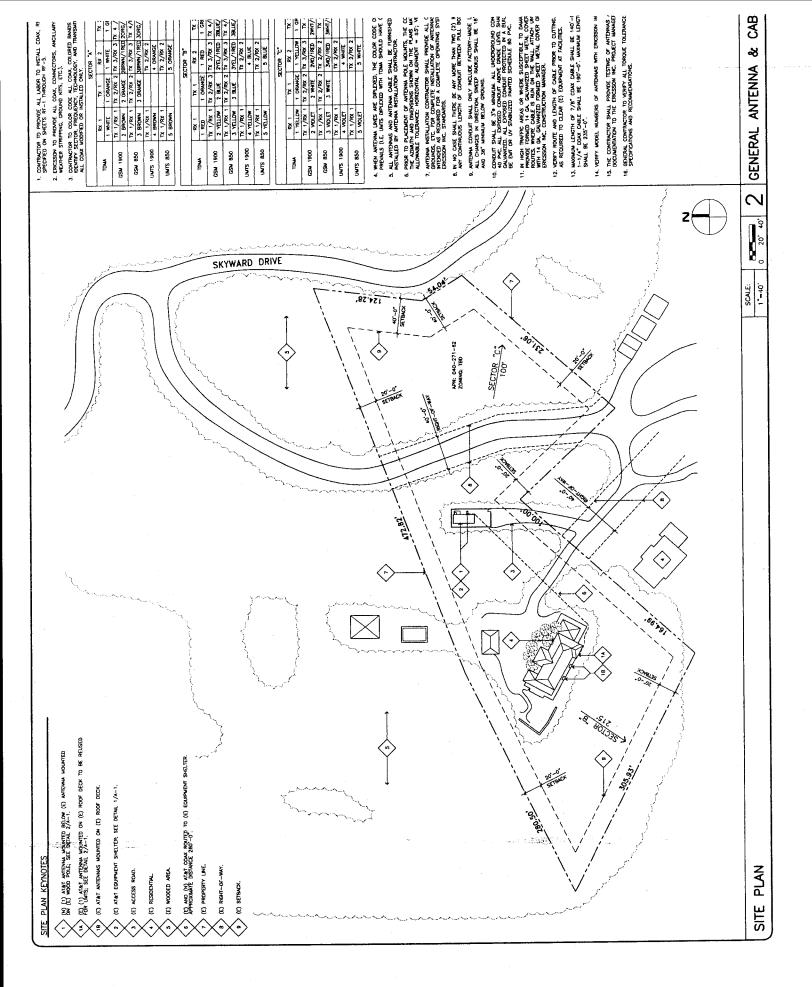
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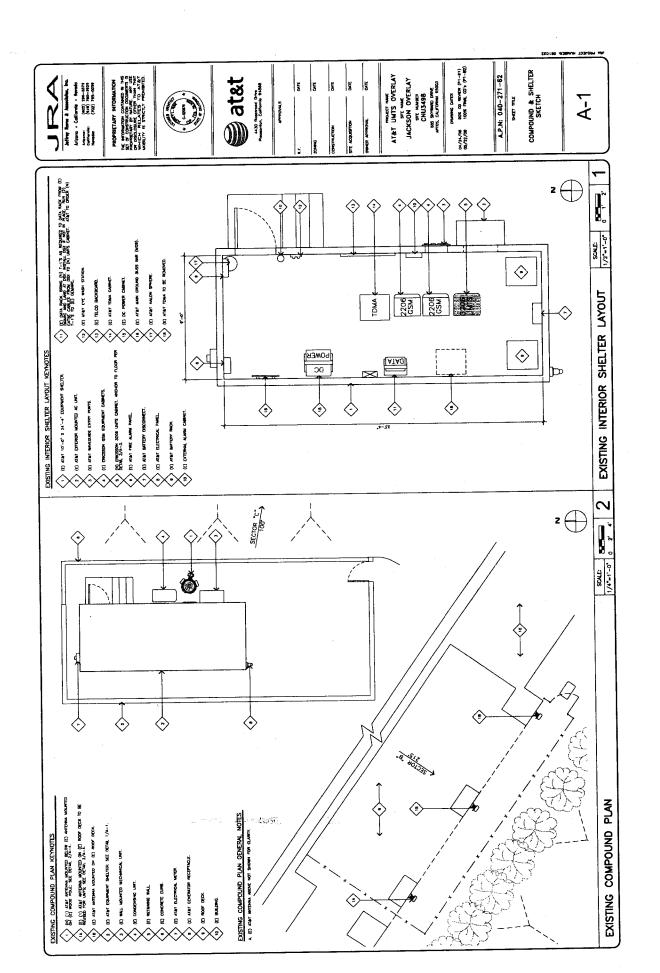
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SPECIEICATIONS	+	TO LET PAGNIES AS RECURED BY THE PROPERTY CHIEFS. TO LET MOBILITY, AND THE CITY OR COMPONER ARENCY.	21.THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RETURNING THE CONSTRUCTION DOCUMENTS TO ILLIBERALET THE ACCOUNTING THE STIE CONSTRUCTION OF THE STIE. THIS SHALL BE DONE WITH THE STIE	HAS BEEN AMPREDD INAL RESPONSIBLE BY THE RESPONSIBLE BE BALDING AGENCY, ONE SET OF BELLEYD DRAWINGS SHALL BE PROMIED TO THE SET MOBILITY CONSTRUCTION MANAGER.	72. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS FOR AND PERMITTED AND APPROVED PLANS AND APPROVED	ALL HOTE GEO OF OPERATOR ONE CONFIDENCE SEALS STATEMENT OF THE CONTRACTOR STALE SEALS SEAL	WITH ALL TRYSONS, ADDONAN AND CHANGE, UNITED STREETS AT ALL TARES, THESE ARE TO BE LINDER THE CAPE OF THE ADD SUPERWITHOUSH.	23.THE COMPACTOR SHALL REJOYE ALL RUBBISH AND WASTE. 7. WITSHALS DIN A DALEY BASS, EXCEPT FOR THAT SPECIFED AS 7.	RELIAMMENT THE PROPERTY OF THE BUILDING ON HORPERTY OWNERS AND SWALL EDERHEESE STREET CONTROL OVER USE CLEANING THE RELIAMENT CONSTRUCTION, PROLUMNS THAN CLEANING.	COMPLETION OF WORK, ALL AREAS ARE TO BE LEFT IN A BROOM OLD COMPLET CONDITION AT THE END OF EACH TOWN DAY AND WOULD COMPLY COMPLY SPORT SPORTS. DIST, ON SALDICES OF ANY	MATURE AT COMPLETION OF WORK.	24, THE COMEDIA COMPACTOR MASS POR MORN CONTROL OF PROPERTY OWNERS PREFEDRED HOURS TO ANOTO DISRUPTION OF THE PROPERTY OF THE	25, AL DRYGED NETA, SHALL RE HOT-DIPPED GALMARQED.	26.504. ALL PENETAKTONS THROUGH PINE—RATED AVEAS WITH U.L. USTED OR FINE WANTSHALL APPROVED MATERIALS IF AND WHERE	APPLICABLE TO THIS FACILITY AND PROJECT SITE.	ALL PORTIONS OF THE PROJECT ANEX CONSTRUCTION.	ALECTRICAL POWER SYSTEM SHALL BE GROUNDED FOR NEC	THE BUILDING BOURDED IN THE EXTENDED OF CONDITIONED		30.(POW COMPLETION OF CONSTRUCTOR, ATAIT MOREITY CONSTRUCTION MANAGER SHALL CONDUCT A WALK-IN-BUILTH CONSTRUCTION MEMORESANTING OF PROPERTY OWES.	٠,	ACCEPTANCE OF THE PROJECT OF THE WORLD AND T	SZ MSTALL ALL EQUIPMENT AND MATCHES TO THE LANGUAGE WERE LOCAL CODES OR THE MANUFACTURENTS NETALLATION SPECIFICATIONS UNESSES OF THE MANUFACTURENTS WERE LOCAL CODES OR	ETILLATION TIME PRECEDENCE.	ROOFING & WATERPROOFING NOTES	I, CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE F ROOF IS UNDER WARRANT, CONTRACTOR SHALL CURRANTE THAT ANY AND IS UNDER MADERING WALL CLINEMATE THE SPECIFICATION OF ANY CASTENG.	ACCESSED TO THE WORK IF IT IS INCOMED THAT IS NOT MADE WANTED AS A RESULT OF THE WORK IF IT IS DETERMINED THAT THE WAY THAT'S	AGATECTS OCIMANS SHAZIONES IN INVESTIGATOR OF ANY OTHER RECORDINGS FOUND. THE CONTRACTOR SHALL IMMEDIATELY MOTEVATURE AND THE MARKET WORLD WINDS TO THE MARKET WORLD WINDS TO THE MARKET WORLD WINDS TO THE MARKET WORLD WONDERS IN	WITHING LLTMATELY, THE CONTRACTOR SHALL BE TREPONSIBLE FOR COMPLYING WITH THE CHRISMA, NOOF MANIFORMER'S SPECIFICATIONS.	2. CONTRACTOR SHALL USE METHODS AND MATERIALS SHILLIPS AND COMPANIES. WITH EXISTING MATERIALS & CONSTITUNG FOR ROOF DATABASE WITH POPERATURES. ETC.	THE COMMODING BUT HE WITH THE WITH THE WORL OF BUILDING OF THE COMMODING STATE OF THE WITH THE WORLD AND THE COMMODING STATE OF THE COMMO	BULDHO ASSENBLY AND ALL APPLICABLE WARRANTES ARE MANTANED. J. O. T. CHELLIN MICHIGANY IN SPAINE EXCENS PARSHES AND/OR		_			SPECIAL ROOFING SYSTEMS SLICH AS SWOLE MEMBRANE ROOFS WILL SPECIAL ROOF SYSTEMS PRODUCT AS MOTED DIN PLANS DR AS REGULATED BY NOTISS 1 & 2 ABOVE.		23.	STORIEM FEBORI AT ALL FINE RATED PONETIVATIONS INSTALLED FOR MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.	2.4L PRETRITIONS INNOVER INE MILE INSCRIPLES STATE RATING. CONSTRUCTED SO AS TO MARTAN AN EQUAL OR GREATER PIRE RATING.	
do iversion	GENERAL OF		2. THIS FACUTY IS AN UNDOCUPED POS TELECOMMUNICATORS STE AND IS 2. DODA'T THOM DEMALDS ACCESS PROUMENEARS.	3. Present TO THE STREAMS OF SERVICE STREAMS OF CONTINUED SHARE AND STATE AND TRANSPORTED THE SERVICES WITH ALL PROJECTIVES THE SERVICES PROJECTIVE AND THE SERVICES PROJECTIVES PROJECTIVES AND THE SERVICES PROJECTIVES AND THE SERVICES PROJECTIVES PROJECTIVE	THE OWN SUCKED AND CONTROL PRINCIPLES AND A CONTROL PRINCIPLE AND A CONTROL PRINCIPLES AND A CONTROL PRINCIPLE AND A CONTROL PRINCIPLE AND A CONTR	DESCRIPTION OF THE WEST OF THE WEST OF THE WASTE OF THE W	#42.00 THE WORL CORPUT ON EDITORNE, WARN WINNERS, VONCESS WITH THE SECURITY OFFICE TO PREPARE IF A CONTROL AND THE SECURITY OFFICE TO THE SECURITY OF THE SECURITY OFFICE TO THE SECURITY OF T	REPORT OF CORRECT ALL PROBLEMS THAY ARXIVE.		DESCRIPTION OF THE SET OF THE STATE OF THE S		EQUIPACIT, APPURTDAMICES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDUSTRED ON MITUED BY THESE DIMWINGS.	4. COMPACTOR SHALL HOTTEY THE ATRY MOBILITY CONSTRUCTION OF ANY DETAILS AND PROMODERS AND MODIFICATION OF ANY DETAILS AND PROMODERS AND PROMOD	WITHER CLEATOLISMY TRADE PROCESS. F WOOM IS PERFORMED. IN WALL BE ASSESSED THAT THERE IS NO CONSECUENT TO ANY DETAIL DETAIL AND ADMINISTRATION OF THE DESIRAL MADE AND RESULT OF THE DESIRAL MADE.	MODERNAME WAT BE RECURED TO SUIT JOB CONDITIONS, AND SHALL RE RELUISED AS PART OF THE WORK.	7. DOSTING ELEMENDAS, AND LOCATIONS TO RE. JOHNEY SHALL BE VIDENTED BY A THE CONTINUENCE BY THE STAND THOSE THE CONTINUENCE BY THE WIND THOSE THE CONTINUENCE BY THE WIND THE STAND SHALL WITHOUT THE	CONSTITUTION LAWARE AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE WATE BETONE PROCEEDING WITH THE WORK.	IL THE COMPANYING SHALL WERFY ALL TELEPHONE & 94000 EQUIPMENT (AND THAN SPECIFICATION AND T	LOCATIONS WITH JOST MOBILITY CONSTRUCTIVE WAYNESS WHOR TO RECOMPANY TOWN THE CONTINUENT OF SAME OF RESPONSEME, FOR CONTINUENT OF SAME OF PROPERTY OF CONTINUENT WITH DISCUSSION WAYN SYSTEMS.	6. AL SMERGE & MERCHANDES USED ON THE CONTRACTOR HIS CONCENSION OF MERCHANDES USED ON THE CONTRACTOR HIS	QUESTIVE REPUBLIES THEN EACH TEACHTES SHALL BE WORTED FOR CONSTRUCTED SHALL BE WORTED FOR CONSTRUCTED SHALL BE WORTED FOR CONSTRUCTED PROCESSES WITH THE REPORT.	IQ. THE CONTINUENTS SUME DEFANT AND PRIVED THE PERSONS. LICENSESS AND INSTRUCTION OF THE WORK AND INCLUDE THE WORK AND THE TOTAL TO THE WORK TO THE WORK AND THE TOTAL THE WORK AND THE TOTAL	THE CONTRACTOR SALE DEDUCE COMMUNICATIONS SECURIORS IN 11	AND ORDER ALL WASHINGTON OF THE TANK AND THE CONTRIBUTION. AS WELL AND A SHEROOM AND A		ăă			SALCHA SAETT NETAL AND AN CONDITIONAL CONTRACTORS WATHOUT ASSOCIATED DRIVE 4201 LAFATER CONTEX DRIVE	THE RETURNATION WITHOUT TOR LATH AND PLASTER AND PLASTER	ST, PALL, MN 155114—1408 AS BREMI MI ESUPARAY AND MITERIALS PER THE UNESS EDITION OF THE	MANUACINETY NOTALITY WENT LOCAL COURS ON REQUIRING THAT OFFENDERS, BROKERS, OR WENT LOCAL COURS ON REQUIRING THAT PROJUDITY WAS PROJUDITY.	14. THE CONTINUENT WAY, COURSEME, AND PROJECT ALL STREET, SEPRESTREET,	Sent Securities so therefore state of the Hills (1980) These sent Securities state and the Hills (1980) The set set set set set set set set set se	PETLANCE AND THE ASSESSMENT SPETY (1994) REGLEROOFTS	THE INTELLIGENCE TO SHAREST WHICH LANT COCCUR DEPOND CONSTRUCTION. AND TO MAKE THE PROPERTY OF	FT., SHALL BY MESTATATAY TRANSPECTOR TRANSPECTOR TO THE SATURACION OF MESTATAGES OF THE CONTRACTOR. OF THE MESTATAGE THAT THE PROPERTY OFFICERS.	11). THE CONTRACTES SHALL BY RESPONSED FOR AND SHALL REPLACE OF WITHOUT MATCHING THE OWN YEAR ONLY APPEALS OF THE SHALL APPEALS OF YEAR OWN. YEAR ONLY THE OWN YEAR.	MITTER THE COMPLETION AND ACCOUNTS. OF THE WORK OF A RE- MAGRITY LANGES THE COMPLETION OF THE CHARLES COMPLETION TO	IN IN MACHEMINA WAS A CONTROL OF A CONTROL O	THE COMMUNICATION OF THE PROPERTY OF THE COMMUNICATION OF THE COMMUNICAT	of the project stiff that the Late is to projects and over the Late is to project and over the Late is to project and the Late is to project and the Late is to project and the Late is th

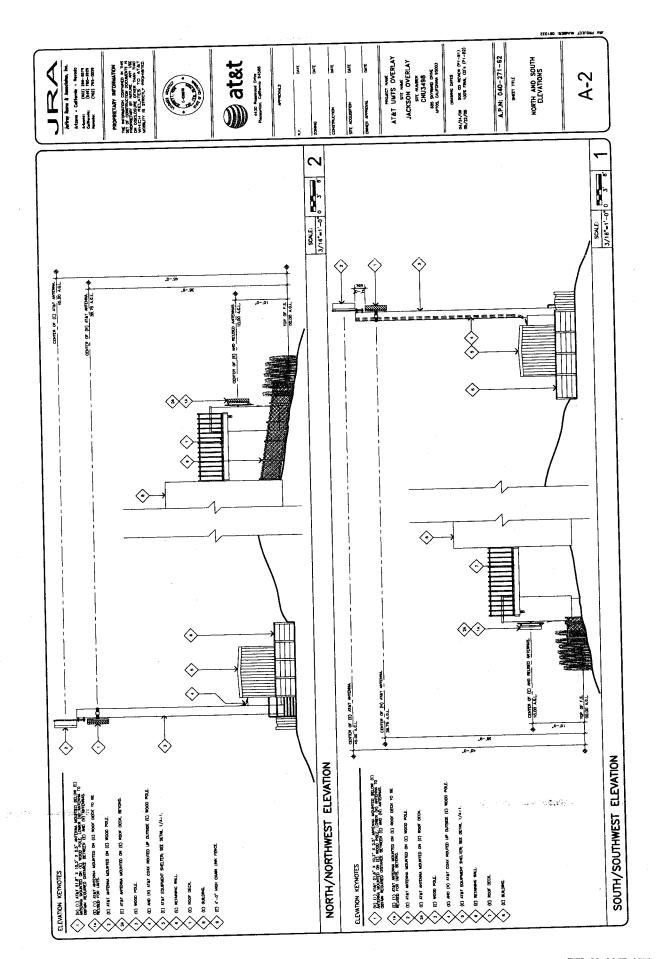


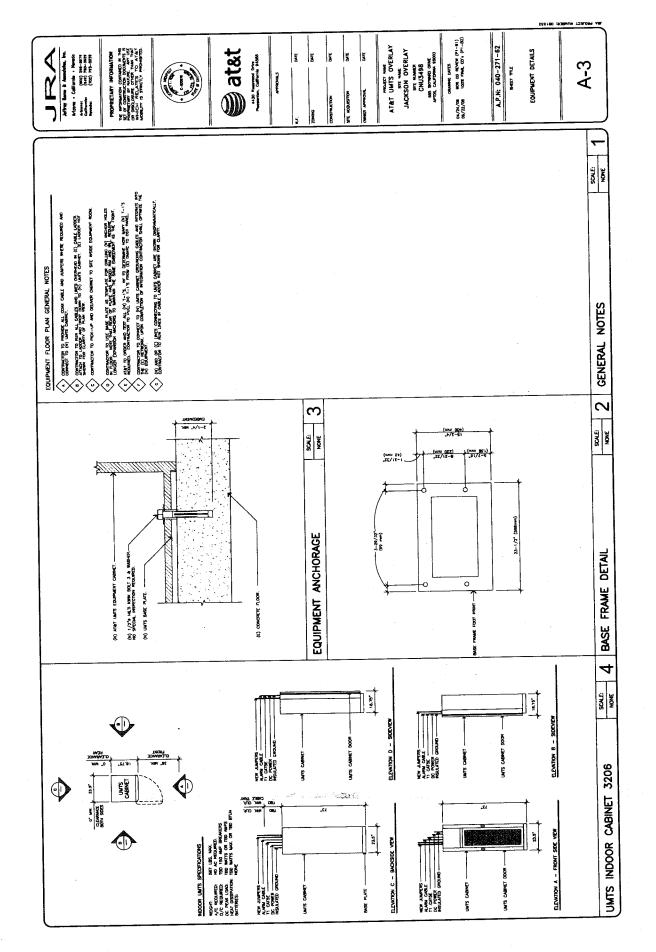


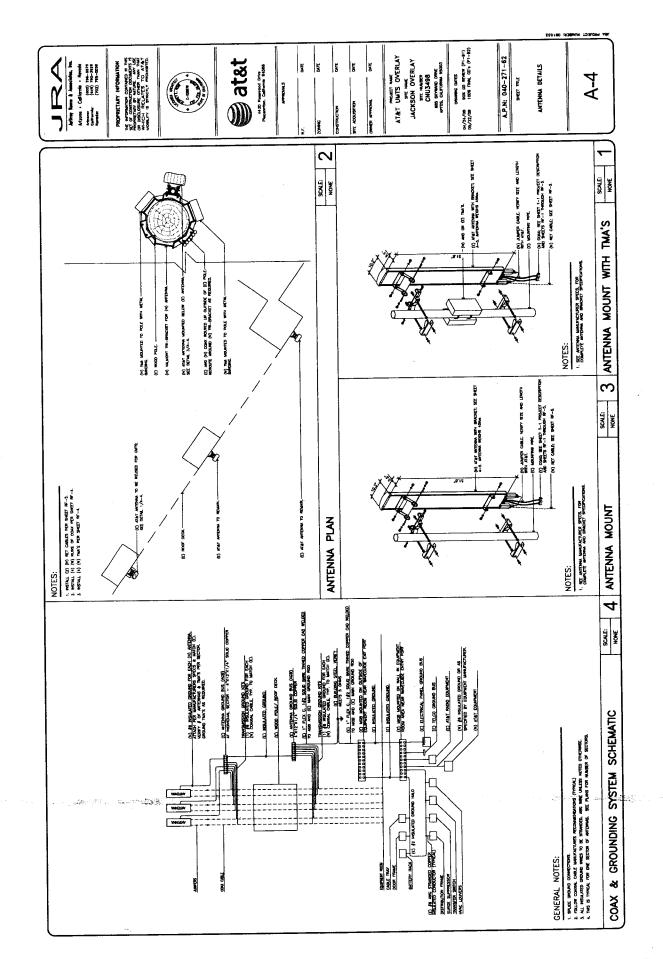
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KINTHEFT

65° Dualband Directional Antenna 742 264

Affer less & baseling, in.

Litera - Californi - Wender

Canada

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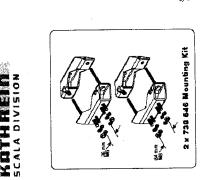
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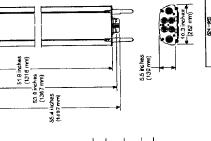




at&t

4430 Rosevson Orive Paggenten, California 94558

2.625 inches ± 0.125 (68 mm ± 4)



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CHINESE APPROVAL WOTE ACQUISITION

DRAWING DATES DA/74/08 BCK CD REVIEW (P1-B1) DS/22/06 100% FWAL CD'6 (P1-B2)

APTOS, CALIFORNIA 95003

A.P.N: 040-271-62

SHEET TITLE

ANTENNA SPECS

A-5

ATET UMTS OVERLAY SITE MARE JACKSON OVERLAY SITE MAREOT CNU3498

Order finformation: Model 742 254

20 off (typical) 410 off

16dB (typical)

20 dB (type at

20 dB (Websal)

Al spezife ations are subject to change without notice. The latest specifications are available at wow Kathreth-Scalasom. Kathrein Inc., Scala Division. Thei Office Box 45on Medery (OR 0701 (15A). Phome (44) 170-680. Far (44) 370-350. En al communication Detailed on Internet, www.lathrein-scalasom.

KATH WELL

65° Dualband Directional Antenna 824-960 MHz

 High strength pultruded fiberglass radome 	ad fiberglass radome.	±45°- polarizaton	249° DO
eneral apecifications:			
adneuci suda	624-950 MHz 1710-21 80 MHz	1710-2	1710-2180 MHz
mpacks nos	50 ohms		
USWA	4.61		
ntermodular on (2x20u)	MS-150dBe		× ×
Polantation	+46 and -48		
Commencia	4 x 7/16 DIN temato		THE STATE OF THE S
solation intrasystem	2008 2008 (204-200# 1710-2180 MHz)		
Waght	36.4 b (46.5 kg)	N. Company	Ź
Dimensions	61.6 x 10.3 x 65 inchas (1316 x 262 x 139 mm)	Horizontal partient	Vertical
Equivalent flat plate area	4.13 ft (0.384 m²)		don't disch
Wind survival rating	120 mph (200 kph) sustained		

	24100000	
mpada noa	B) ohms	4
VSWR	ed.6:1	
memodulation (2x23ut)	IM3: 150 256	
Polarization	+46 and 46	170
Commercial	4 x 7/16 DIN temate	
Joseph newsystem	-30 dB -50 dB (524-980 # 1710-2180 MHz)	
Waght	36.4 b (46.5 kg)	N N
Dimensions	61.6 x 10.3 x 6.6 mchas (1316 x 262 x 139 mm)	Horizonta i partiem
Equivalent flat plate area	4.13 ft (0.364 m²)	
Wind survival rating	120 mph (200 kph) sustained 160 mph (240 kph) in a 3 second burst	
Shipping dim one this	64 x 11.0 x 7.6 inches (1626 x 5/2 x 192 mm)	
Shipping weight	46 b (20.4 lg)	
Mouriting	Fixed mount cotions are available bit 2 to 4.6 inch (80 to 115 mm) OD masts.	
Cos raysons for order morning	mater	

	4.6 mch (BUTO 115 mm) CD masts.	m) CD mass.			
See raverse for order information.	- ston				
House	100	48H 050-020	1710-1880 LBIz	490 - 1900 LINE	1926-2180 MHz
System carrottes.		£	16 5 dB	16.8 dBi	49 0/-
Font D-back ratio	>28 dB (to polar)	Sede (corpolar)	x25 dB (co-solar)	*25dB (co-polar)	(πραίου) go 92%
Maximum input power per input	400 welts (at 60°C)	400 wasts (at BOPC) 400 watts (at BOPC) 260 warts (at BOPC)	260 wetts (at 50°C)	250 wets (al 50°C) 500 wets (al 50°C)	250 wedts (at 60°C)
- 65° and -45° colargation hormotal beamwith	1 .	65° (half-power)	(Hark-bower)	68 (half-power)	63° (hall-power)
+ 45° and -45° polarization 16° (half-power) vertical beamwickli	16" (half-power)	14.5° (half-power) 7.8° (half-power)	7.8" (half-power)	7.3° (half-power)	8.9° (half power)
Electrical chumbilicontinuously adjustable	\$ -1 to	(b4p	Ø- 8 •	3 9	8° 20
Science suppression for hist science above hormon	Bom + + + +	14 14 14	90 pt pt pt	of the the dB	45 46 (5dB



Member 24 das gri is based on environmental condition's as supulted in Et A. 225. Their et Gost and Et ET 32.00 Otto 44 on their include the state members to be imposed on as interna by vivid at internation and internation of the coatage for further datalate.

Katherin Inc., Scale Dinson Roy Office Etx 4660 Mediting OR 37601 (USA). Phone, (641) 779-6901 Fax: (641)

ANTENNA SPECS

					Amenna	System		Artzona - Caffornia - Neveda
	Gingular RF-Site Design Form	ite Design For		Sector Se	Sarse B Andrew C.	Antenna Type 1 19875	Sector B Sector C	Artyanor: (802) 296-9579 Celfferning: (949) 780-9929
	36 256	262,000,000		Retistion Heigh Agingth		RacBatton Beignt 4 zimuch		- 1
Market	SAN FRANCISCO	Date	February 27, 2008				AF CT. AF TANT	PROPRIETARY INFORMATION
Site Name	JACKSON OVERLAY - D106	ion Level	3.2	Actiensa Model		HARLON WE WANTED THE TO	690*1940/WSBD4D 896-1940/084D	THE NETSHATTON CONTANED IN THIS SET OF CONTROLLED IN THIS SET OF CONTROLLED IN CONTROLLED IN THE SET OF CONTROLLED IN THE
Market Type	Oual Band 850/1900 MHz	RF Engineer	Dominik Hamera 925, 227, 5112	Sumbley Type		Duamity	. Dec. 0904	PROPRIETARY BY NATURE. ARY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO ATALT
- GSM Site 10	SF1460			Hamilacturer		Manuracures	Karbrein Kerbrein	MOBILITY IS STRECTLY PROHIBITED.
usn.	42804	Completion Date		Omensions Housely Remode		Oknensions Morrostat Seemwicht	x 6.5° Sf x	
Structure Type	BLDG / MONOPOLE	Source of Existing	1460_v12.0 PSD76 Complex Growth and Redline Dense	Vertical Beamwidth		Vertical Reamwidth	1473 1473	(a) (a) (b) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a
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NAD83	-121.88900	" Frequency Band	850	854.1566 downth Elec		350/1900 Salvain Elec Connoth Bisensineall	282	
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7th Code	95003			* # BLS.1		1 of 0145.	2 min 1 min)
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		THE STREET		PDU-Yendrail-Poder		PEX VenterShipder		
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	SAS I THE COMPANIES.		rewiters compared	# of ROSsoftwarRET		# of ROS spekens(RCT)	-	
BTS =1		BTS #1		* of RC Tep Jumpers		F of RC Inp Seminary	Ĭ	R.F. DATE
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, BTS Tachnology	TDMA	Freedoors Rand		RC Fee der Cable Usptel		NC Feeder Cable Moder	860.198xx 850.190xx	ZOHNG DATE
· STS Model	Indoor	BTS Model	3296 Indoor	Capacity of Property and American		A se Circle Sall St. Market	92.1.00	
* Number of Cabinets		Number of Cabinets	**					CONSTRUCTION DATE
· Number of Sectors	2	Number of Sectors	2			Antenna Type 2 G8M		The second secon
D15 #2		ETS Vander	Frinces	- Racheston Height		45.1 Radistion Height	16 a 15 R	
. STS Technology	1	BTS Technology	GSR			Annath	742.264	OMMER APPROVAL DATE
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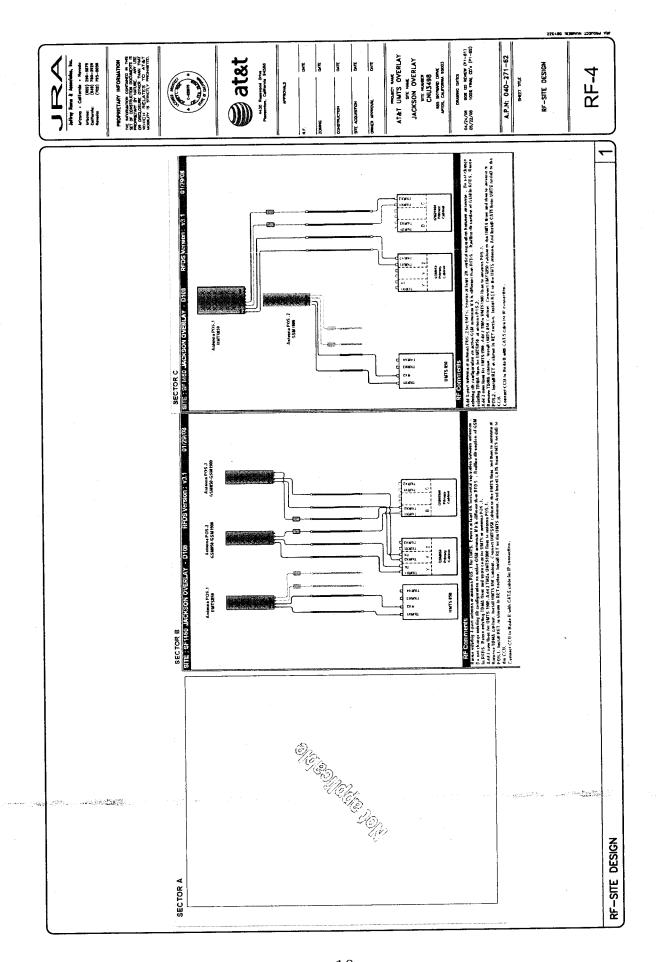
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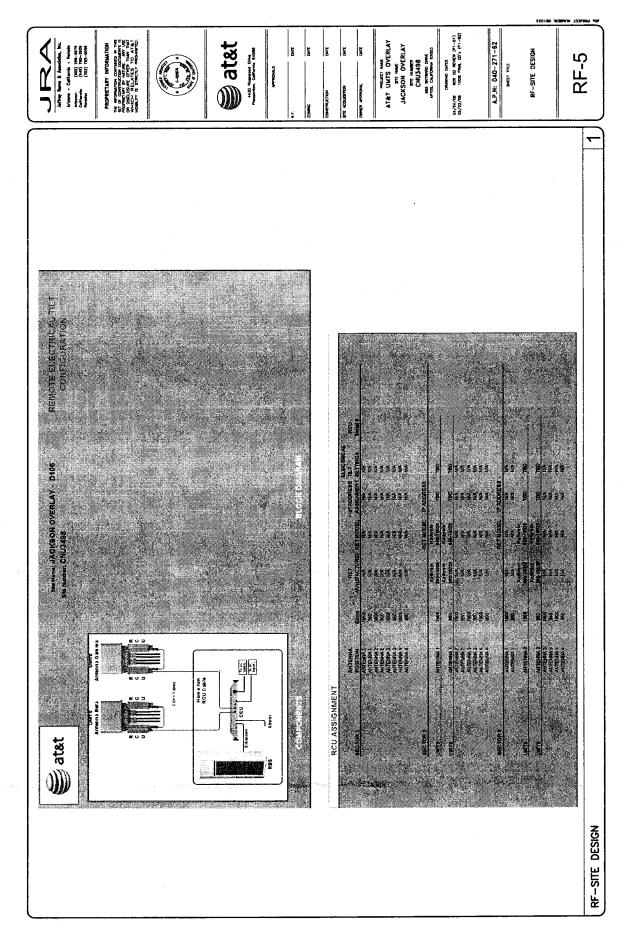
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Wireless Communication Facility Use Permit Findings

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 project will not be visible from any designated visual resource or surrounding residentially zoned property. The monopole and equipment building are shrouded in trees. The deck antennas are also not visible to any scenic corridor due to the location on a steep hill and are a significant distance from any visual resource. The antennas are incorporated into the design of the deck supports and painted to match the dwelling, which blend them into the dwelling and limit visibility from surrounding dwellings.

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 pursuant to County Code Section 13.10.662(c), facilities located within the restricted zone districts are required to provide an alternatives site analysis. Ordinarily, when a new site is selected an alterative site analysis would evaluate other alternative sites where equal or superior cell coverage can be provided and a determination by staff can be completed to confirm that the selected site limits site visibility and minimizes visual impacts. This site is unique in that it is an existing site currently operated by AT&T previously approved, but not fully exercised (a building permit was not issued by the Department). The applicant provided a rationale for this location within that context noting that that this site was originally selected because it provides superior coverage and would leave a gap in the coverage if another site had been selected. Site coverage mapping information and an email response to the site analysis requirement is provided and serves as the alternatives site analysis, included in the findings by reference, that support this location selection. Staff concurs with the applicant with regard to site selection based on the information provided. Staff also finds that this site is ideal in terms of limiting visual impacts to surrounding properties and sensitive scenic receptors. Another site would only be recommended by staff if the selected site will result in significant visual impacts to surrounding properties or to a sensitive scenic corridor. This site is not visible to any scenic corridor or to surrounding properties given the existing mature trees between properties. Additional alternative site analysis is not necessary at this time for these reasons.

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

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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 existing residential and commercial use of the subject property is in compliance with the requirements of the zone district and General Plan designation, in which it is located. It should be noted that the subject application was determined to be "complete" prior to adoption of the recently revised wireless communication facilities. The Board of Supervisors excluded complete applications from current wireless facility regulations. However, the proposed project complies with both the previous ordinance and recently adopted ordinance language. It should be noted that the ordinance amends standards addressing colocated facilities and location of facilities within close proximity to schools. The proposed project is considered a new wireless facility and not a co-located facility.

The subject parcel is zoned RA (Residential Agriculature), an identified "Restricted Zone District." New wireless transmission facilities are allowed uses within the restricted zone district pursuant to County Code Section 13.10.661, where it can be determined that the facility will "eliminate or substantially reduce one or more significant gaps in the applicant carrier's network; and there are no viable, technically feasible, and environmentally equivalent or superior alternatives outside the prohibited and restricted areas.. that would eliminate or substantially reduce said significant gaps." The applicant had originally located this cell facility at this location, and received approval, because it would eliminate a gap in their network. And pursuant to this code section, the proposed site also minimizes visual intrusion to surrounding properties and to scenic corridors because it is not visible to surrounding properties or to any scenic corridor. Furthermore, the project will be brought into compliance with issuance of this use permit and issuance of a building permit for the facility.

No zoning violation abatement fees are applicable to the subject property even though this site is currently operating without a permit.

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 proposed antennas will be located below the aircraft travel path.

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 radio frequency exposure levels were evaluated based on the power densities resulting from the operation of the existing as well as the proposed antennae array. The analysis was conducted by TRK Engineering. The result shown on Exhibit H, indicate that the maximum ambient RF levels at ground level due to the existing wireless communications facilities and the proposed operation are calculated to be 36 % percent of the most restrictive applicable limit and the maximum exposure on nearby buildings is .76% of the most restrictive applicable limit worst case.

6. For wireless communication facilities in the coastal zone, the proposed wireless

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communication facility as conditioned is consistent with the applicable requirements of the Local Coastal Program.

The proposed project site is not located within the coastal zone.

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 project is located in an area designated for Wireless uses and is not encumbered by physical constraints to development. Construction will comply with prevailing building technology, the California Building Code, and the County Building ordinance to insure the optimum in safety and the conservation of energy and resources. The proposed wireless use will not deprive adjacent properties or the neighborhood of light, air, or open space, in that the structure meets all current setbacks that ensure access to light, air, and open space in the neighborhood. However, an air conditioning unit located on the outside of the equipment building intermittently turns on to cool the inside temperature. Staff was contacted by neighboring property owner that complained of noise from this site disrupting their sleep during the night. This unit turned on during the staff site visit and although the noise level is low, it seems appropriate that noise generation be limited so that the quiet character of the residential zone district can be maintained. Thus, the project is conditioned to eliminate this air conditioning unit from the building prior to issuance of a building permit. Other suitable design alternatives may be provided in the building plans such as the creation of air vents, or other design that allows for air circulation to occur without noise generation. Changes to the design will not affect the visibility of the facility to neighboring properties and does not require additional approval. The project is also conditioned to prohibit generators from the site to avoid the same noise issues.

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 proposed location of the cell facility and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the RA (Residential Agriculture) zone district in that the primary use of the property will be one residential dwelling.

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 proposed cell facility is consistent with the use and density requirements specified for the RR (Rural Residential) land use designation in the County General Plan.

The proposed cell facility will not adversely impact the light, solar opportunities, air, and/or open space available to other structures or properties, and meets all current site and development standards for the zone district as specified in Policy 8.1.3 (Residential Site and Development Standards Ordinance), in that the cell facility will not adversely shade adjacent properties.

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The proposed cell facility will not be improperly proportioned to the parcel size or the character of the neighborhood as specified in General Plan Policy 8.6.1 (Maintaining a Relationship Between Structure and Parcel Sizes), in that the proposed cell facility will comply with the site standards for the Residential Agriculture zone district (including, lot coverage, floor area ratio, height, setbacks, and number of stories) and will result in a structure consistent with a design that could be approved on any similarly sized lot in the vicinity. In addition, the monopole and other antennas are not visible from surrounding properties, which comply with General Plan and Zoning Ordinance policies limiting visual impacts.

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.

This finding can be made, in that the proposed facility will not generate additional traffic except that necessary to add the proposed antenna and service the facility, or adversely impact existing roads and intersections in the surrounding area. However, the project has been conditioned to require the property owner to enter into the road maintenance association, if they have not already done so, to cover the share of road improvement costs associated with the dwelling and wireless facility.

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 proposed cell facility is currently situated among existing trees, which screen the structures (pole and building) from view. This existing facility is only visible once you are on the subject property adjacent to the development because the property slopes up a steep hill from the property line to the location of the development. 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.

Conditions of Approval

Development Permit No. 08-0256 Property Owner: Camille and Timothy Washovich Assessor's Parcel No.: 040-271-62

Exhibit A: Project plans prepared by Jeffrey Rome and Associates, dated 5/22/08

- I. This permit recognizes a 48 foot monopole with antenna, three panel antennas installed on a single family dwelling, existing equipment building, installation of one new equipment cabinet, one antenna, and the reuse and conversion of one existing GSM antenna for use as a UMTS antenna located on the existing deck support. 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. The applicant shall remove the air conditioning unit from the existing equipment facility. The applicant shall obtain any necessary building permits for said work including a demolition permit, as needed.
- II. Prior to issuance of a Building Permit the applicant/owner shall:
 - A. Submit proof that these conditions have been recorded in the official records of the County of Santa Cruz (Office of the County Recorder).
 - B. 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

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been approved with this Discretionary Application, in addition to showing the materials and colors on the elevation, the applicant shall supply a color and material board in 8 ½" x 11" format for Planning Department review and approval

- 2. Grading, drainage, and erosion control plans.
- 3. The building plans must include a roof plan and a surveyed contour map of the ground surface, superimposed and extended to allow height measurement of all features. Spot elevations shall be provided at points on the structure that have the greatest difference between ground surface and the highest portion of the structure above. This requirement is in addition to the standard requirement of detailed elevations and cross-sections and the topography of the project site which clearly depict the total height of the proposed structure. Maximum height is 28-feet.
- 4. Details showing compliance with fire department requirements, including all requirements of the Urban Wildland Intermix Code, if applicable.
- 5. Building plans shall eliminate the generator receptacle from the building plans to ensure that a generator is prohibited from this site.
- C. 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.
- D. Obtain an Environmental Health Clearance for this project from the County Department of Environmental Health Services.
- E. Meet all requirements and pay any applicable plan check fee of the Aptos La Selva Fire Protection District.
- F. Submit 3 copies of a soils report prepared and stamped by a licensed Geotechnical Engineer for review and approval.
- G. Submit a written statement signed by an authorized representative of the school district in which the project is located confirming payment in full of all applicable developer fees and other requirements lawfully imposed by the school district.
- ·H. Submit evidence that the property owner has joined the Skyward Road maintenance association.
- 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

Owner: Camille and Timothy Washovich

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 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 wireless communication facility may not be connected to a power source or operated until a final inspection and clearance from the Santa Cruz County Planning Department has been received.
- B. The use of temporary generators to power the wireless communication facility are not allowed.
- C. All noise generated from the approved use shall be contained on the property.
- D. 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.
- E. Any existing vegetative screening of the project site and facilities must be maintained throughout the duration of the approved use. Tree removals or excessive pruning which reduce the visual screening of the project site are not allowed. If visual screening is reduced due to natural causes, replacement trees will be required which provide adequate visual screening of the project site and facilities.
- F. 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.

- G. 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.
- H. 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.
- I. 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 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.
- J. Any modification in the type of equipment shall be reviewed and acted on by the Planning Department staff. The County may deny the modification or amend the approved conditions at that time, or the Planning Director may refer it for public hearing before the Zoning Administrator.
- K. The access road shall be permanently maintained to allow access to emergency vehicles at all times. Any obstruction of the access road, as a result of neglect or lack of maintenance, will be in violation of the conditions of this permit.
- L. The equipment cabinet area must be locked at all times except when authorized personnel are present. The antennas must not be accessible to the public.
- M. All site, building, security and landscape lighting shall be directed onto the lease site and away from adjacent properties. Light sources shall not be visible from adjacent properties. Building and security lighting shall be integrated into the building design and shall be operated with a manual on/off switch. The site shall be unlit except when authorized personnel are present at night.
 - N. <u>Transfer of Ownership</u>: In the event that the original permittee sells its interest in the permitted wireless communications facility, the succeeding carrier shall assume all responsibilities concerning the project and shall be held responsible to the County for maintaining consistency with all project conditions of approval,

including proof of liability insurance. Within 30-days of a transfer of ownership, the succeeding carrier shall provide a new contact name to the Planning Department.

- 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 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 two 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,

Application #:	08-0256
APN: 040-271	-62

will void the development permit, unless there are special circumstances as determined by the Planning Director.

Approval Date:	
Effective Date:	
Expiration Date:	
Don Bussey Deputy Zoning Administrator	Sheila McDaniel Project Planner

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.

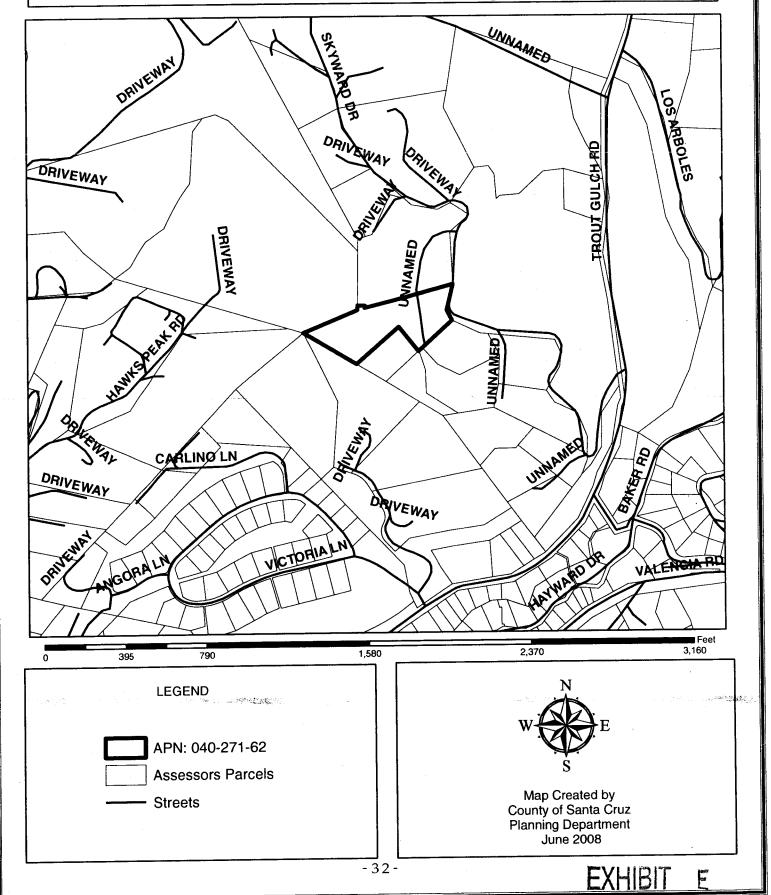
Application Number: 08-0256

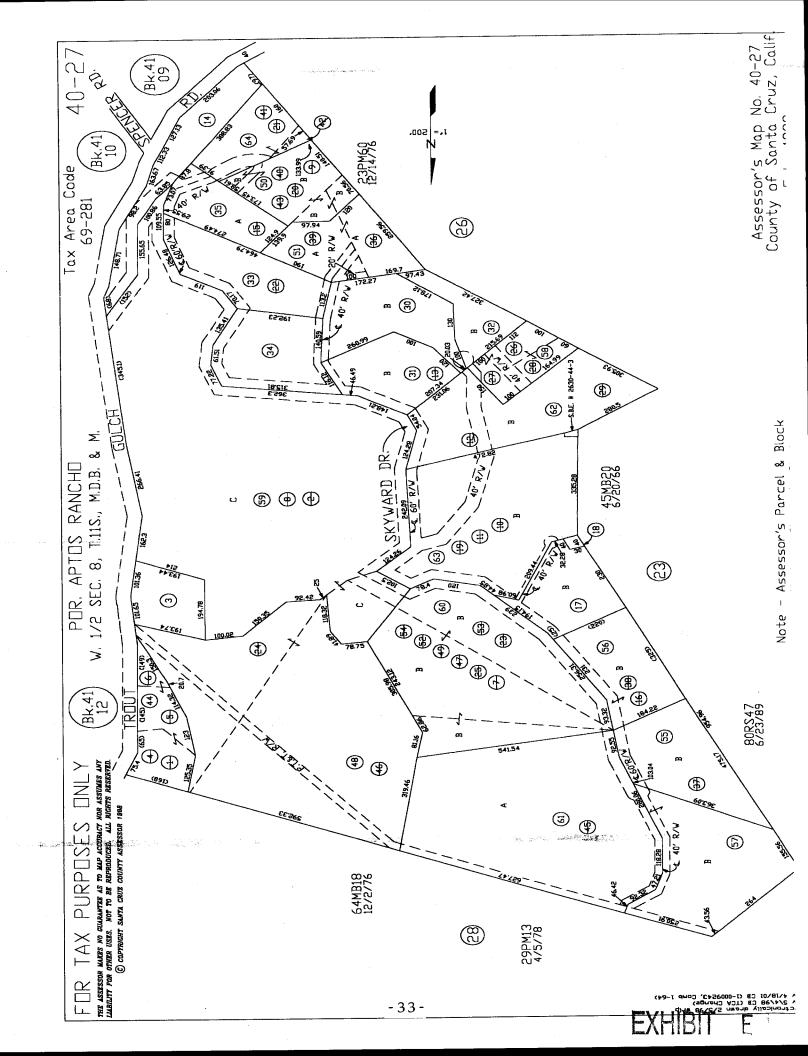
Assessor Parcel Number: 040-271-62

Project Location: 685 Skyward Drive, Aptos, CA 95003
Project Description: Recognize a 48 foot monopole with antenna, generator, propane tank for a existing facility that includes 3 antennas on a single family dwelling, 1 new cabinet, 1 antenna, and reuse 1 existing antenna on deck support.
Person or Agency Proposing Project: James Cosgrove
Contact Phone Number: (415) 233-3838
A 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. <u>Ministerial Project</u> 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. X Categorical Exemption
Specify type: Class 1 - Existing Facilities (Section 15301) Class 3- New Small Structures
F. Reasons why the project is exempt:
Proposal to recognize an existing wireless communication facilities and make minor modifications to the structure and use. In addition, none of the conditions described in Section 15300.2 apply to this project.
Date:
Sheila McDaniel, Project Planner



Location Map

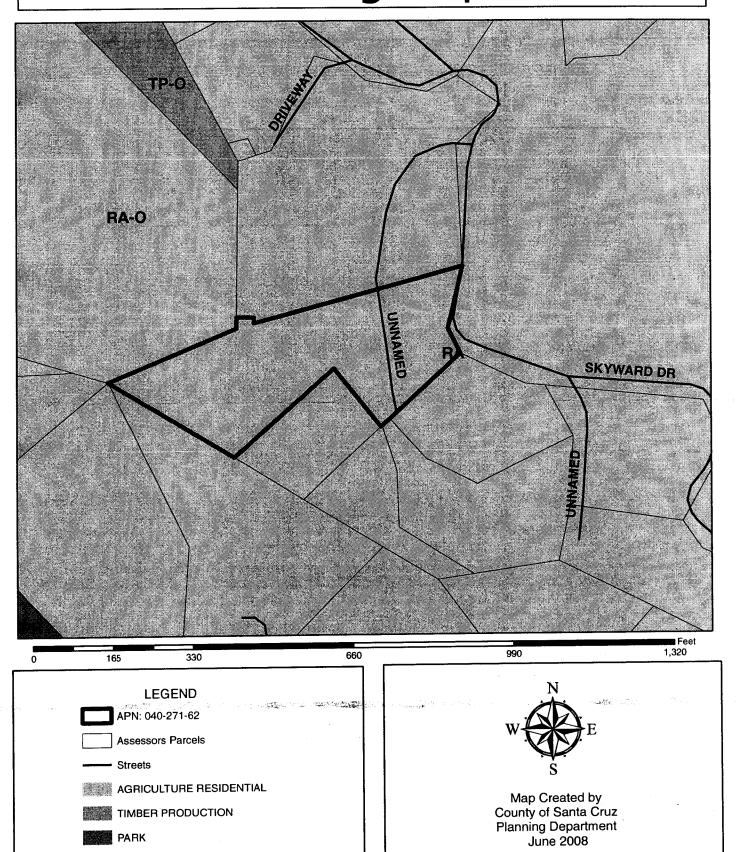






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Zoning Map

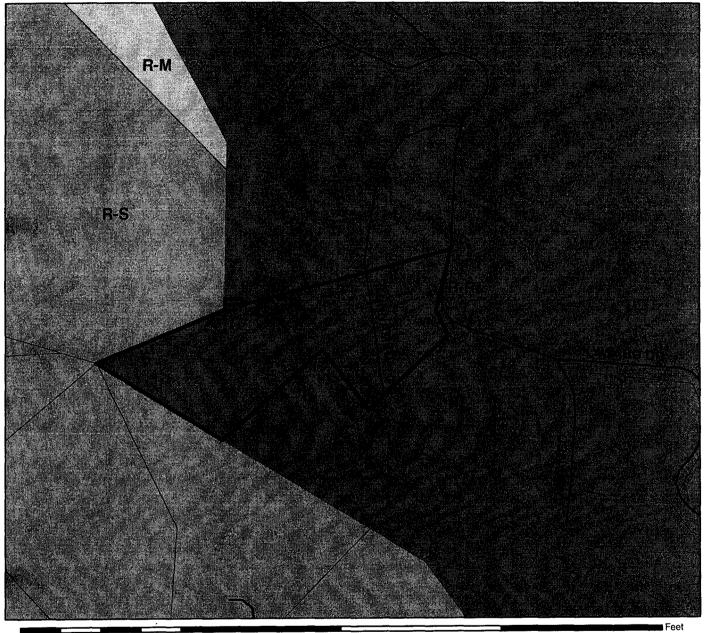


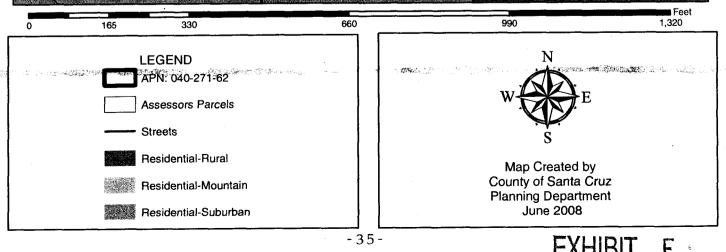
- 34 -

EXHIBIT



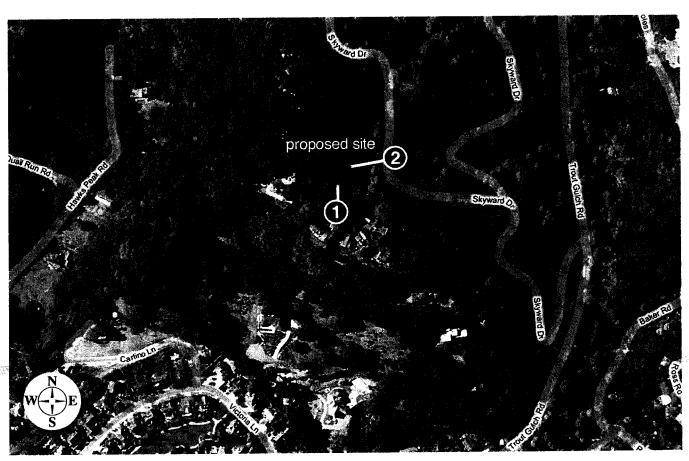
General Plan Designation Map











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Jackson Overlay

Site # CNU3498

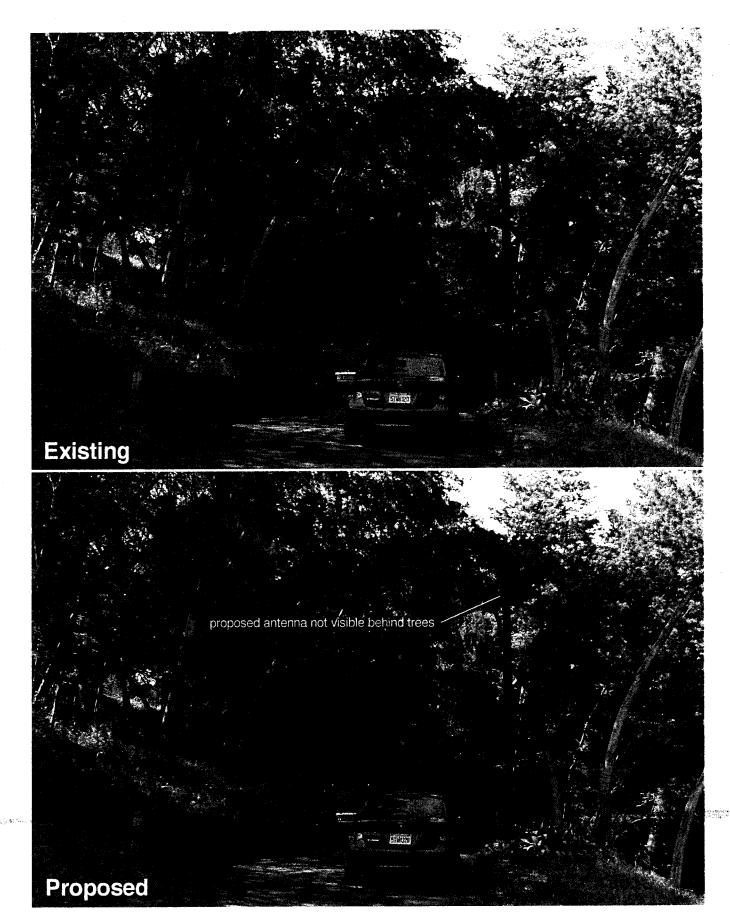
- 36 -

Aerial Map

5/14/08

685 Skyward Drive Aptos, CA 95003

Applied Imagination 510 914-0500



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Jackson Overlay

Site # CNU3498

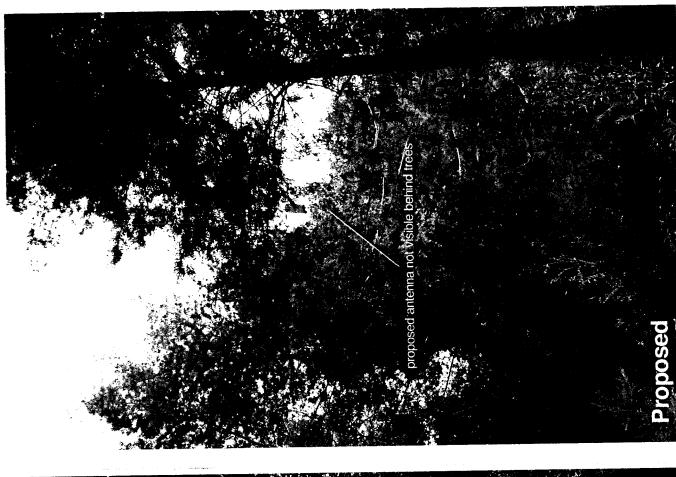
Looking North from Site

5/14/08

685 Skyward Drive Aptos, CA 95003

Applied Imagination 510 914-0500

Looking West from Skyward Drive





- 38 -

685 Skyward Drive Aptos, CA 95003 Jackson Overlay

Site # CNU3498

at&t

685 Skyward Drive Aptos, CA 95003





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

Prepared for:



CNU3498
JACKSON OVERLAY
685 SKYWARD DRIVE
APTOS, CA

MAY 30/08, REV. 0



SITE DESCRIPTION:

Carrier:	AT&T
Address:	685 Skyward Drive, Aptos, CA 95003
Type of Service:	1. UMTS, 2. GSM (1900 MHz and 850 MHz Broadband PCS)
Sectors:	2 (215°, 100°)
Antenna Type:	Kathrein 742 264, Decibel QBXLH-6565A-VTM
Number of Antennas:	sector B (3), sector C (2)
Maximum Power:	500 W (Maximum ERP per technology per sector)
Antenna Height:	$10^{\circ}\pm$, $38.75^{\circ}\pm$, $45^{\circ}\pm$ (Radiation center AGL)

Table 1. AT&T RF summary

AT&T is proposing to deploy new UMTS in addition to the existing GSM services at its wireless communication facility located at the above address (Figure 1). Sector C consists of a 40' wood pole with two directional antennas inside a compound surrounded by retaining wall. Sector B is located 160' away on a building roof deck with three directional antennas. The building is surrounded by 4' high chain link fence and gates. One new indoor equipment cabinet will be installed inside the existing shelter. Access to the facilities is restricted to authorized personnel.

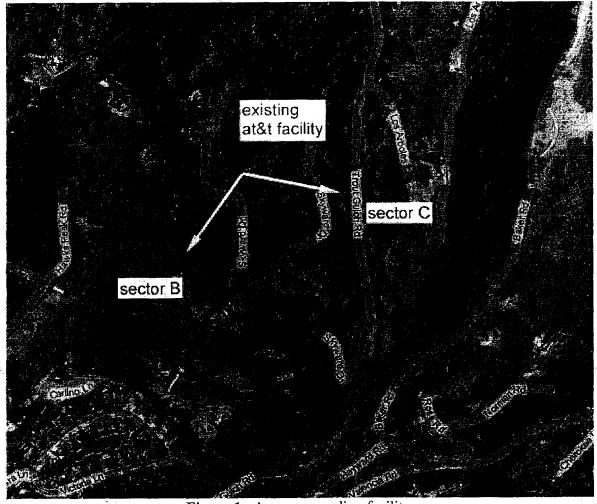


Figure 1. Area surrounding facility



PROTOCOL:

This study, and the calculations performed therein, is based on OET Bulletin 651 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:

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

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

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 7' from the roof deck. 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 %
GSM 850	500 W	-12 dB (0.0631)	2.4	88.6388	15.2826
GSM 1900	500 W	-20 dB (0.0100)	2.4	28.0503	2.8050
UMTS 850	500 W	-12 dB (0.0631)	2.4	88.6388	15.2826
UMTS 1900	500 W	-20 dB (0.0100)	2.4	28.0503	2.8050
		Total			36.1752

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

The Maximum Permissible Exposure (MPE) limit for 1900 MHz PCS facility for general population/uncontrolled exposure is 1000 μW/cm², and 580 μW/cm² for 850 MHz facility². At this location, the power density from the facility is calculated to be 36.2% of the MPE limit.

Ibid., page 67.

¹ Cleveland, Robert F, et al. Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. OET Bulletin 65, Edition 97-01, 1997.



Scenario 2: Maximum Exposure on nearby buildings

In the surrounding areas, there are low density residential houses. The RF exposure levels on the nearby buildings are 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. The maximum exposure is found to be on the rooftop of the nearest building to the facility. The calculations for this location are summarized in Table 3. The highest exposure location is found to be approximately 360' from the sector B antennas. The maximum power density is calculated to be 0.76% of the MPE limit.

Service	Max. ERP	\mathbf{F}^{2}	R (m)	S (µW/cm²) (from eq. 1)	MPE %
GSM 850	500 W	0 dB (1.0000)	109.8	1.3865	0.2390
GSM 1900	500 W	0 dB (1.0000)	109.8	1.3865	0.1386
UMTS 850	500 W	0 dB (1.0000)	109.8	1.3865	0.2390
UMTS 1900	500 W	0 dB (1.0000)	109.8	1.3865	0.1386
		Total	1		0.7552

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 36.2% of the MPE limit. There will be less RF exposure at other locations near or away from the compound. Therefore, the proposed modifications to 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, 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.

Sei Yuen Sylvan Wong, PE California PE Reg. No. E 16850 TRICA

May 30, 2008

APPENDIX A

FCC'S MAXIMUM PERMISSIBLE EXPOSURE (MPE) LIMIT:

Equation 10 from Bulletin 65 is reproduced here as equation 1:

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

Where:

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

ERP = Effective radiated power [W]

R = Distance [m]

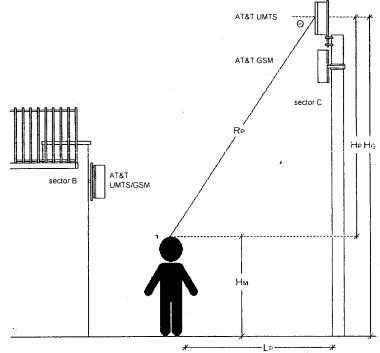
F = Relative field factor

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

$$R_P = \sqrt{H_P^2 + L_P^2}$$

Relative Field Factor at Θ

$$F^2 = 10^{\frac{F^2}{10}}$$
 (in term of power density)



Scenario 1: Standing Near The Facility

The highest exposure location at ground from the antenna

person's height (H_M) = 6 ft

Sector C

At $\Theta = 75^{\circ}$, the exposure location at ground from the monopole $L_{P} =$

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	A	Angle F ²		R _P (m)	S (µW/cm2)	MPE%			
AT&T GSM 850	38.75	32.75	500.0	Θ=	75	° -2	22	dB (0.0063)	10.3	0.9840	0.1697
AT&T GSM 1900	38.75	32.75	500.0	Θ=	75	۰	5	dB (0.0316)	10.3	4.9359	0.4936
AT&T UMTS 850	45.00	39.00	500.0	Θ=	77	° -3	30	dB (0.0010)	12.2	0.1124	0.0194
AT&T UMTS 1900	45.00	39.00	500.0	Θ=	77	° -2	28	dB (0.0016)	12.2	0.1798	0.0180
		· · · · · · · · · · · · · · · · · · ·	<u> </u>							Total		0.7007

At Θ = 45 °, the exposure location at ground from the monopole L_P = 33 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Angle ⊝	Angle F²		R _P (m)	S (µW/cm2)	MPE%	
AT&T GSM 850	38.75	32.75	500.0	⊝ = 45	-12	dB (0.06	31)	14.1	5.2854	0.9113
AT&T GSM 1900	38.75	32.75	500.0	⊖ = 45	-15	dB (0.03	16)	14.1	2.6469	0.2647
AT&T UMTS 850	45.00	39.00	500.0	⊖ = 50	-18	dB (0.01	58)	15.5	1.0940	0.1886
AT&T UMTS 1900	45.00	39.00	500.0	⊝ = 50	-24	dB (0.00	40)	15.5	0.2770	0.0277
			'				Total		1 3923	

At Θ = 30 °, the exposure location at ground from the monopole $L_P = 57$ · ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Angle ⊖	F ²		R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	38.75	32.75	500.0	⊖ = 30 °	-15	dB (0.0316)	20.0	1.3233	0.2282
AT&T GSM 1900	38.75	32.75	500.0	Θ = 30 °	-20	dB (0.0100)	20.0	0.4188	0.0419
AT&T UMTS 850	45.00	39.00	500.0	Θ = 35 °	-20	dB (0.0100)	21.0	0.3790	0.0653
AT&T UMTS 1900	45.00	39.00	500.0	Θ = 35 °	-16	dB (1:0,0,0251)	21.0	0.9514	0.0951
			·			<u> </u>	Total		0.4305

At Θ = 10 °, the exposure location at ground from the monopole L_P = 186 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	A	ngle ⊝		F	2	R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	38.75	32.75	500.0	Θ=	10 °	-5	dB (0.3162)	57.5	1.5971	0.2754
AT&T GSM 1900	38.75	32.75	500.0	Θ=	10 °	-14	dB (0.0398)	57.5	0.2010	0.0201
AT&T UMTS 850	45.00	39.00	500.0	Θ=	12 °	-5	dB (0.3162)	. 57.9	1.5773	0.2719
AT&T UMTS 1900	45.00	39.00	500.0	Θ=	12 °	-14	dB (0.0398)	57.9	0.1985	0.0199
	-,								Total		0.5873

Sector B

Within in facility compound

At Θ = 75 °, the exposure location at ground from the roof deck L_P = 1 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Angle ⊝		F ²		R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	10.00	4.00	500.0	Θ = 75°	-22	dB (0.0	0063)	1.3	66.2698	2.2852
AT&T GSM 1900	10.00	4.00	500.0	Θ = 75 °	-15	dB (0.1	0316)	1.3	332.4011	6.6480
AT&T UMTS 850	10.00	4.00	500.0	Θ = 75 °	-22	dB (0.6	0063)	1.3	66.2698	2.2852
AT&T UMTS 1900	10.00	4.00	500.0	Θ = 75 °	-15	dB (0.9	0316)	1.3	332.4011	6.6480
L. L.		1 ,	1					Total		17.8664

Within in facility compound

At Θ = 60 °, the exposure location at ground from the roof deck L_P = 2 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	А	ngle ⊙		F	2	R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	10.00	4.00	500.0	Θ=	60 °	-22	dB (0.0063)	1.4	52.9199	1.8248
AT&T GSM 1900	10.00	4.00	500.0	Θ=	60 °	-20	dB (0.0100)	1.4	83.9998	1.6800
AT&T UMTS 850	10.00	4.00	500.0	Θ=	60 °	-22	dB (0.0063)	1.4	52.9199	1.8248
AT&T UMTS 1900	10.00	4.00	500.0	Θ=	60 °	-20	dB (0.0100)	1.4	83.9998	1.6800
				•					Total		7.0096

Within in facility compound

At Θ = 45 °, the exposure location at ground from the roof deck L_P = 4 ft 1

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Angle Θ	F ²	R _P (m) S (µW/cm)	2) MPE%
AT&T GSM 850	10.00	4.00	500.0	Θ = 45 °	-12 dB (0.0631)	1.7 356.1959	12.2826
AT&T GSM 1900	10.00	4.00	500.0	Θ = 45 °	-15 dB (0.0316)	1.7 178.3802	3.5676
AT&T UMTS 850	10.00	4.00	500.0	Θ = 45°	-12 dB (0.0631)	1.7 356.1959	12.2826
AT&T UMTS 1900	10.00	4.00	500.0	Θ = 45 °	-15 dB (0.0316)	1.7 178.3802	3.5676
			٠.	<u> </u>		Total	31.7004

At $\Theta = 30^{\circ}$, the exposure location at ground from the roof deck $L_P = 7^{\circ}$ 1

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	′	Angle ⊙		F ²		R _P (m)	S (µW/cm2)	MPE%	
AT&T GSM 850	10.00	4.00	500.0	Θ=	30	۰	-15	dB (0.0316)	2.4	88.6388	15.2826
AT&T GSM 1900	10.00	4.00	500.0	Θ=	30	•	-20	dB (0.0100)	2.4	28.0503	2.8050
AT&T UMTS 850	10.00	4.00	500.0	Θ=	30	۰	-15	dB (0.0316)	2.4	88.6388	15.2826
AT&T UMTS 1900	10.00	4.00	500.0	Θ=	30	•	-20	dB (0.0100)	2.4	28.0503	2.8050
	_L								Total		36.1752	

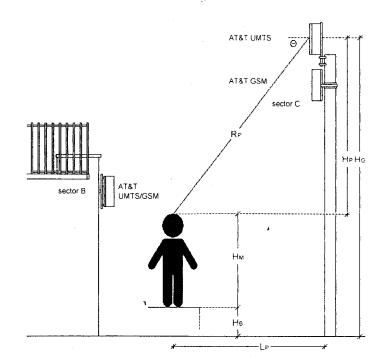
At Θ = 15 °, the exposure location at ground from the roof deck L_P = 15 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	Angle ⊖	F ²	R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	10.00	4.00	500.0	⊖ = 15 °	-10 dB (0.1000) 4.7	75.2791	12.9792
AT&T GSM 1900	10.00	4.00	500.0	Θ = 15 °	-14 dB (0.0398	3) 4.7	29.9611	2.9961
AT&T UMTS 850	10.00	4.00	500.0	Θ = 15 °	-10 dB (0.1000) 4.7	75.2791	12.9792
AT&T UMTS 1900	10.00	4.00	500.0	Θ = 15 °	-14 dB (0.0398	3) 4.7	29.9611	2.9961
		<u> </u>		<u> </u>		Total		31.9506

At Θ = 5 °, the exposure location at ground from the roof deck. L_P = 46 ft

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	A	ngle ⊝			F ²	R _P (m)	S (µW/cm2)	MPE%
AT&T GSM 850	10.00	4.00	500.0	Θ=	5	۰	0	dB (1.0000)	14.0	85.3259	14.7114
AT&T GSM 1900	10.00	4.00	500.0	Θ=	5	۰	-3	dB (0.5012)	14.0	42.7654	4.2765
AT&T UMTS 850	10.00	4.00	500.0	Θ=	5	۰	0	dB (1.0000)	14.0	85.3259	14.7114
AT&T UMTS 1900	10.00	4.00	500.0	Θ=	5	۰	-3	dB (0.5012)	14.0	42.7654	4.2765
		1							Total		37.9758

Scenario 2: Nearby Buildings/ Rooftops



Relative Field Factor at Θ

$$F^2 = 10^{\frac{F^2}{10}}$$
 (in term of power density)

$$R_P = \sqrt{H_P^2 + L_P^2}$$

 $\Theta = arctan(H_P/L_P)$

person's height (H_M) =

Residential building within Sector B

H_B= 4 ft (360 ft from the roof deck)

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	1	ngle ⊝		F ²	R _P (m)	S (µW/cm2)	MPE%
GSM 850	10.00	0.00	500.0	Θ=	0 °	0	dB (1.0000)	109.8	1.3865	0.2390
GSM 1900	10.00	0.00	500.0	Θ=	0 °	0	dB (1.0000)	109.8	1.3865	0.1386
UMTS 850	10.00	0.00	500.0	Θ=	0 °	0	dB (1.0000)	109.8	1.3865	0.2390
UMTS 1900	10.00	0.00	500.0	Θ=	0 °	0	dB (1.0000)	109.8	1.3865	0.1386
		•	•			-		Total		0.7552

Residential building within Sector B

H_B= 4 ft (630 ft from the roof deck)

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	A	ngle ⊝			F	2	R _P (m)	S (µW/cm2)	MPE%
GSM 850	10.00	0.00	500.0	Θ=	0	۰	0	dB (1.0000)	192.1	0.4527	0.0780
GSM 1900	10.00	0.00	500.0	Θ=	0	۰	0	dB (1.0000)	192.1	0.4527	0.0453
UMTS 850	10.00	0.00	500.0	Θ=	0	۰	0	dB (1.0000)	192.1	0.4527	0.0780
UMTS 1900	10.00	0.00	500.0	Θ=	0	۰	0	dB (1.0000)	192.1	0.4527	0.0453
<u> </u>		A								Total		0.2466

Residential building within Sector C

H_B= 16 ft (400 ft from the monopole)

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	1	ngle O -			F ²	R _P (m)	S (µW/cm2)	MPE%
GSM 850	38.75	16.75	500.0	Θ=	2	•	0	dB (1.0000)	122.1	1.1209	0.1933
GSM 1900	38.75	16.75	500.0	Θ=	2	•	0	dB (1.0000)	122.1	1.1209	0.1121
UMTS 850	45.00	23.00	500.0	Θ=	3	•	0	dB (1.0000)	122.2	1.1192	0.1930
UMTS 1900	45.00	23.00	500.0	Θ=	3 '	,	0	dB (1.0000)	122.2	1.1192	0.1119
		•		•					Total		0.6103

Residential building within Sector C

16 ft (680 ft from the monopole)

Service Provider	Height H _G , ft	Height H _P , ft	Max. ERP	P	ingle Θ			F	2	R _P (m)	S (µW/cm2)	MPE%
GSM 850	38.75	16.75	500.0	Θ=	1	۰	0	dB (1.0000)	207.4	0.3883	0.0670
GSM 1900	38.75	16.75	500.0	Θ=	1	•	0	dB (1.0000)	207.4	0.3883	0.0388
UMTS 850	45.00	23.00	500.0	Θ=	2	۰	0	dB (1.0000)	207.4	0.3881	0.0669
UMTS 1900	45.00	23.00	500.0	Θ=	2	•	0	dB (1.0000)	207.4	0.3881	0.0388
			<u> </u>	***************************************						Total		0.2115

AP14/17-880/1940/065D/ADT/XXP

742-264

65° Multiband Directional Antenna

SCALA DIVISION

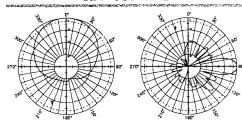
Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS. These cross-polarized antennas offer diversity operation in the same space as a conventional 800 MHz antenna, and are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

- Wide band operation.
- Exceptional intermodulation characteristics.
- · Remote control ready.
- · Various gain, beamwidth and downtilt ranges.
- AISG compatible.
- High strength pultruded fiberglass radome.

General specifications:

Frequency range	824–960 MHz 1710–2170 MHz
Impedance	50 ohms
VSWR	<1.5:1
Intermodulation (2x20w)	IM3: -150 dBc
Polarization	+45° and -45°
Connector	4 x 7/16 DIN female
Isolation intrasystem intersystem	>30 dB >50 dB (824–960 // 1710–2170 MHz)
Weight	36.4 lb (16.5 kg)
Dimensions	51.8 x 10.3 x 5.5 inches (1316 x 262 x 139 mm)
Equivalent flat plate area	4.13 ft² (0.384 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	64 x 12 x 8 inches (1626 x 305 x 203 mm)
Shipping weight	45 lb (20.4 kg)
Mounting	Fixed mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.
See reverse for order infor	mation.

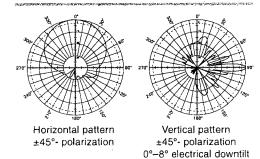
824-960 MHz



Horizontal pattern ±45°- polarization

Vertical pattern ±45°- polarization 0°-14° electrical downtilt

1710-2170 MHz





Specifications:	824-894 MHz	870-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	12 dBd/14 dBi	12 dBd/14 dBi	14.5 dBd/16.5 dBi	14.8 dBd/16.8 dBi	15 dBd/17 dBi
Front-to-back ratio	>26 dB (co-polar)	>26 dB (co-polar)	>25 dB (co-polar)	>25 dB (co-polar)	>25 dB (co-polar)
Maximum input power	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	68° (half-power)	65° (half-power)	65° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	16° (half-power)	14.5° (half-power)	7.8° (half-power)	7.3° (half-power)	6.8° (half-power)
Electrical downtilt continuously adjustable	0°-14°	0°-14°	0°–8°	0°–8°	0°–8°
Sidelobe suppression for first sidelobe above horizon	0° 7° 14° T 14 14 13 dB	0° 7° 14° T 14 14 13 dB	0° 4° 8°T 14 14 14 dB	0° 4° 8°T 16 16 15 dB	0° 4° 8°T 15 16 15 dB
Cross polar ratio Main direction 0° Sector ±60°	20 dB (typical) >10 dB	20 dB (typical) >10 dB	16 dB (typical) >10 dB	18 dB (typical) >10 dB	20 dB (typical) >10 dB



*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.

Kathrein Inc., Scala Division Post Office Box 4580 Mc..., \sim R 97501 (USA) Phone: (541) 779-6500



Product Specifications



QBXLH-6565A-VTM

DualPol® Dual Band Quad Antenna, 824-960 MHz and 1710-2180 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt



- Four DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew remote electrical tilt system

CHARACTERISTICS

General Specifications

Antenna Type

DualPol® dual band, quad

Brand DualPol® | Teletilt® Operating Frequency Band

1710 - 2180 MHz | 824 - 960 MHz

Electrical Specifications

Frequency Band, MHz	824-896	870-960	1710- 1880	1850- 1990	1920- 2180
Beamwidth, Horizontal, degrees	66	60	60	60	60
Gain, dBd	11.9	11.9	14.4	14.7	14.9
Gain, dBi	14.0	14.0	16.5	16.8	17.0
Beamwidth, Vertical, degrees	16.0	15.0	7.1	6.5	6.0
Beam Tilt, degrees	0-15	0-15	0-8	0-8	8-0
Upper Sidelobe Suppression (USLS), typical, dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	28	25	25	27	25
Isolation, dB	30	30	30	30	.30
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
3rd Order IMD at 2 x 20 W, dBc	-150 ´	-150	-150	-150	-150
Input Power, maximum, watts	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50	50	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground	dc Ground	dc Ground

From North America, toll free Telephone: 1-800-255-1479 Fax: 1-800-349-5444

Outside North America Telephone: +1-708-873-2307 Fax: +1-779-435-8579

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page 1 of 4

Product Specifications



Mechanical Specifications

Color
Connector Interface
Connector Location
Connector Quantity
Wind Area, maximum
Wind Loading, maximum
Wind Speed, maximum

Off white 7-16 DIN Female Bottom 8 0.2 m² | 2.5 ft² 622.8 N @ 100 mph | 140.0 lbf @ 100 mph

Dimensions

Depth Length Width Net Weight 279.4 mm | 11.0 in 1320.8 mm | 52.0 in 581.7 mm | 22.9 in 33.3 kg | 73.5 lb

201.2 km/h | 125.0 mph

Remote Electrical Tilt (RET) Information

Model with Factory Installed Actuator RET System

QBXLH-6565A-R2M Teletilt®

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC China RoHS SJ/T 11364-2006 Classification

Compliant by Exemption Logo 2





Included Products

DB5083

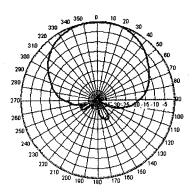
Downtilt Mounting Kit for 4.5 in (114.3 mm) OD round members

DB380

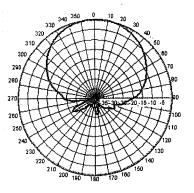
Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members



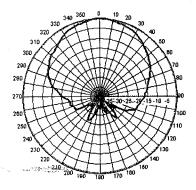
Horizontal Pattern



Freq: 850 MHz, Tilt: 0

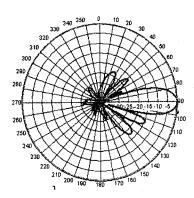


Freq: 940 MHz, Tilt: 0

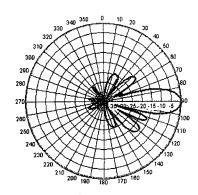


Freq: 1785 MHz, Tilt: 0

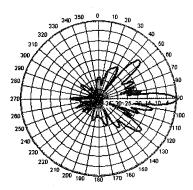
Vertical Pattern



Freq: 850 MHz, Tilt: 0



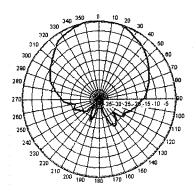
Freq: 940 MHz, Tilt: 0



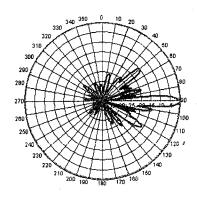
Freq: 1785 MHz, Tilt: 0

Product Specifications

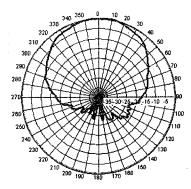




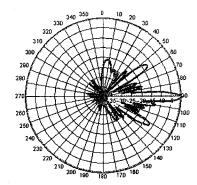
Freq: 1920 MHz, Tilt: 0



Freq: 1920 MHz, Tilt: 0



Freq: 2110 MHz, Tilt: 0



Freq: 2110 MHz, Tilt: 0

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All specifications are subject to change. Please see www.andrew.com for the most current information.

page 4 of 4 4/25/2008





James Cosgrove Site Planning and Acquisition 56 Bay Road Fairfax, CA 94930

Tel: 415 233 3838

10/01/08

Re: App # 08-0256

Dear Shelia

I am providing the following information and documents in order to deem my application complete:

Alternative Site Analysis and Coverage Objective:

Included are propagation maps for before and after this site is on air. The coverage objective for this site is between HWY 1, from Soquel Drive to Freedom. Based upon the position of the hillsides, the elevation of the existing site, willingness at the time of the land owner to work with us on a design, this site was considered ideal for obtaining the highest percent of the proposed coverage area.

I am also including a photo of the Cell Site. You and I previously discussed, that based upon the steepness of the hillside, it is difficult to obtain photos from the front of the home.

Thank you,

Jim Cosgrove

jamestcosgrove@comcast.net

Tel: 415 233 3838

-79 -87 -97

-79dBm to Indoor Coverage
-87 dBm to In Car Coverage
-97 dBm to On Street Coverage



Cabrillo Hary

September 1

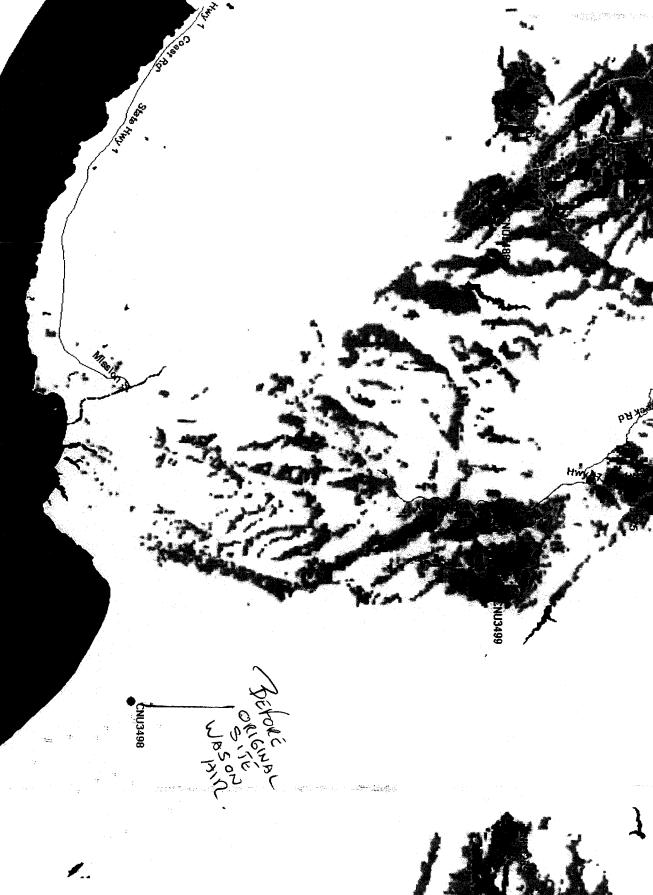
State of the state

/..

- 54 -

EXHIBIT





- 55*-*

Sheila McDaniel

From: JAMES COSGROVE [jamestcosgrove@comcast.net]

Sent: Wednesday, July 30, 2008 3:40 PM

To: Sheila McDaniel

Cc: Tony Poletti; Chris Moller XX; Lisa Elliott; Sean Carpenter; Alex Figueroa

Subject: Application 08-0256 (3498), Alternative Site Analysis letter for application

Hello Shelia:

Thank you for your help the other day with supplying all the contact information about obtaining the B.P.

I'm sending this email for application 08-0256, addressing item Number 1 on the incomplete application form; A B.P. was not obtained for construction of the original site. Because of the time that has passed, the C.U.P. has now expired, and the code has recently changed. This code change is forcing us to perform an Alternative Site Analysis (A.S.A.).

We are asking that you recognize the existing structure at this location and that AT&T files a B.P. to fully meet Building Code Standards and not perform an A.S.A. for the following reasons:

A.S.A's are historically performed on new build sites within a given search ring, where there are several choices of different candidates to decide from in that area we want to cover, i.e. PG&E lattice towers, water tanks or open land. We decided on this site because of the high probability of it passing Planning and the strategic coverage it provides in contributing to our fully messed network that we have in Santa Cruz. As I'm sure you are aware, a fully meshed network is nothing more than a series of strategically placed, over lapping Search Rings, that allow people to move around long distances receiving and sending calls, including 911 without disruption.

Although County Code has changed and now requires an A.S.A. This A.S.A. will not provide any useful data in justifying the cell site placement, unless Planning is considering that we remove the site and consider another location within the search ring. This would inevitably leave a gap in the meshed network. Locating equipment on an adjacent cell site (AT&T's or another carriers) would leave a gap in this search ring. Otherwise we would not have decided on that site to begin with. I understand that codes do change and that our C.U.P. fell out of compliance, by allegedly not submitting a B.P., however we are asking for another way to resolve this issue, such as realizing a mistake might of occurred and to remedy the situation by now getting the site up to building standards as originally proposed.

Can you please present this to your manager for review and if needed I would like to set up a call to discuss this with you both.

Photo - I am sending you the only photo we were able to take of the antennas on this site because of the fenced in area and the cliffside in front of the antenna deck.

Drawings - I am sending you a soft copy of the drawings we submitted so you can have an 8.5' x 11'.

Please let me know if you would like me to mail you a hard copy.

Thank you again for all your help on this site.

James T. Cosgrove

56 Bay Road Fairfax CA, 94930 Office: 415.456.2970 Cell: 415.233.3838

Email: jamestcosgrove@comcast.net

COUNTY OF SANTA CRUZ

INTEROFFICE MEMO

APPLICATION NO: 08-0256

Date: July 1, 2008

To: Sheila McDaniel, Project Planner

From: Larry Kasparowitz, Urban Designer

Re: Cellular antennae at Skyward Drive, Aptos

COMPLETENESS ITEMS

None

COMPLIANCE ISSUES

Design Review Authority

13.10.663 General development performance standards for wireless communication facilities.

Evaluation Criteria	Meets criteria In code(✔)	Does not meet criteria	Urban Designer's Evaluation
SITE LOCATION		(•)	
Visual character of site	······································	14-8	
Site location and development of wireless communications facilities shall preserve the visual character, native vegetation and aesthetic values of the parcel on which such facilities are proposed, the surrounding parcels and road right-of-ways, and the surrounding land uses to the greatest extent that is technically feasible, and shall minimize visual impacts on surrounding land and land uses to the greatest extent feasible			
Facilities shall be integrated to the maximum extent feasible to the existing characteristics of the site, and every effort shall be made to avoid, or minimize to the maximum extent feasible, visibility of a wireless communication facility within significant public viewsheds.			
Utilization of camouflaging and/or stealth techniques shall be encouraged where appropriate.	~		
Support facilities shall be integrated to the existing characteristics of the site, so as to	~		

minimize visual impact.		1	
Colocation		<u> </u>	
Co-location is generally encouraged in situations where it is the least visually obtrusive option, such as when increasing the height/bulk of an existing tower would result in less visual impact than constructing a new separate tower in a nearby location.	~		
Site Disturbance			
Disturbance of existing topography and on-site vegetation shall be minimized, unless such disturbance would substantially reduce the visual impacts of the facility.	~		
All proposed wireless communication facilities shall comply with the policies of the County General Plan/Local Coastal Plan and all applicable development standards for the zoning district in which the facility is to be located, particularly policies for protection of visual resources (i.e., General Plan/LCP Section 5.10). Public vistas from scenic roads, as designated in General Plan Section 5.10.10, shall be afforded the highest level of protection.	•		

Evaluation Criteria	Meets criteria In code (❤)	Does not meet criteria (✔)	Urban Designer's Evaluation
DESIGN REVIEW CRITERIA			
Non-flammable Materials			
All wireless communication facilities shall be constructed of non-flammable material, unless specifically approved and conditioned by the County to be otherwise (e.g., when a wooden structure may be necessary to minimize visual impact).	•		
Tower Type			
All telecommunication towers shall be self- supporting monopoles except where satisfactory evidence is submitted to the appropriate decision-making body that a non-monopole (such as a guyed or lattice tower) is required or environmentally superior.	~		
All guy wires must be sheathed for their entire length with a plastic or other suitable covering.	~		

visibility within public viewsheds.

Support Facilities			
Any support facilities not placed	✓		
underground shall be located and	•	1	
designed to minimize their visibility and, if			
appropriate, disguise their purpose to			
make them less prominent. These	}		
structures should be no taller than twelve	j		
(12) feet in height, and shall be designed			
to blend with existing architecture and/or	Ì	(
the natural surroundings in the area or shall be screened from sight by mature			
landscaping.			
ici ici cocaping.			
Exterior Finish			
All support facilities, poles, towers,	J		
antenna supports, antennas, and other	•		
components of communication facilities		I	
shall be of a color approved by the			
decision making body.			
Components of a wireless communication			
facility which will be viewed against soils,			
trees, or grasslands, shall be of a color or	ļ		
colors consistent with these landscapes.			<u> </u>
Visual Impact Mitigation			Γ
Co-location of a new wireless	✓		
communication facility onto an existing telecommunication tower shall generally	'		
be favored over construction of a new			
tower.			
Owners/operators of wireless	<u> </u>		
communication towers/facilities are	▼		
required to maintain the appearance of the			
tower/facility, as approved, throughout its			
operational life.		<u></u>	<u> </u>
Lighting			
Except for as provided for under Section	✓	}	
13.l0.663(a)(5), all wireless communication	,)
facilities shall be unlit except when			1
authorized personnel are present at night.		<u> </u>	
Roads and Parking			
All wireless communication facilities shall	✓		}
be served by the minimum sized roads			
and parking areas feasible.		1	
Vegetation Protection and Facility Screen	ning	T	
In addition to stealth structural designs,	e e 🗸 e digere		
vegetative screening may be necessary to			
minimize wireless communication facility	}	1	}

All applications shall provide detailed landscape/vegetation plans specifying the non-invasive native plant species to be used, including identification of sources to be used to supply seeds and/or plants for the project.	•		
Any such landscape/vegetation plan shall be prepared by a qualified botanist experienced with the types of plants associated with the facility area. For purposes of this section, "mature landscaping" shall mean trees, shrubs or other vegetation of a size that will provide the appropriate level of visual screening immediately upon installation.	•		
All nursery stock, construction materials and machinery, and personnel shall be free of soil, seeds, insects, or microorganisms that could pose a hazard to the native species or the natural biological processes of the areas surrounding the site (e.g., Argentine ants or microorganisms causing Sudden Oak Death or Pine Pitch Canker Disease).	•		
Underground lines shall be routed outside of plant drip lines to avoid damage to tree and large shrub root systems to the maximum extent feasible.	Y		

PERMIT CONDITIONS / ADDITIONAL INFORMATION

none

COUNTY OF SANTA CRUZ DISCRETIONARY APPLICATION COMMENTS

Project Planner: Sheila Mcdaniel

Date: January 8, 2009

Time: 16:25:28 Application No.: 08-0256 Page: 1 **APN:** 040-271-62 Environmental Planning Completeness Comments ====== REVIEW ON JULY 21. 2008 BY ROBERT S LOVELAND ======== NO COMMENT **Environmental Planning Miscellaneous Comments** ====== REVIEW ON JULY 21. 2008 BY ROBERT S LOVELAND ======== Conditions of Approval: 1. Submit a soils report (3 copies) completed by a Californïa licensed geotechnical engineer for review and approval. NOTE TO PLANNER: The mapped resource for this area was not detected within the project areas. Dpw Road Engineering Completeness Comments LATEST COMMENTS HAVE **NOT YET** BEEN SENT TO PLANNER FOR THIS AGENCY ====== REVIEW ON JUNE 30. 2008 BY ANWARBEG MIRZA ======= NO COMMENT Dpw Road Engineering Miscellaneous Comments LATEST COMMENTS HAVE NOT YET BEEN SENT TO PLANNER FOR THIS AGENCY ====== REVIEW ON JUNE 30, 2008 BY ANWARBEG MIRZA ======== NO COMMENT Aptos-La Selva Beach Fire Prot Dist Completeness C LATEST COMMENTS HAVE **NOT YET** BEEN SENT TO PLANNER FOR THIS AGENCY ====== REVIEW ON AUGUST 20, 2008 BY ERIN K STOW ======= DEPARTMENT NAME: Aptos/La Selva Fire Dept. APPROVED Aptos-La Selva Beach Fire Prot Dist Miscellaneous LATEST COMMENTS HAVE NOT YET BEEN SENT TO PLANNER FOR THIS AGENCY ===== REVIEW ON AUGUST 20, 2008 BY ERIN K STOW ======= NO COMMENT



Aptos/La Selva Fire Protection District

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

August 19, 2008

Planning Department County of Santa Cruz Attention: Sheila McDaniel 701 Ocean Street Santa Cruz, CA 95060

Subject:

APN: 40-271-62 / Appl #08-0256

685 Skyward Drive

Dear Ms. McDaniel:

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:

Timothy & Camille Washowich

685 Skyward Drive Aptos, CA 95003

Cc:

James Cosgrove

56 Bay Road Fairfax, CA 94930



Aptos/La Selva Fire Protection District

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

DISCRETIONARY APPLICATION FEE

PLAN REVIEW	!:		
DATE:	8/19/2008	8 APN: 040-271-62 APPL: 08-0256	
PROJECT ADI	DRESS:	685 Skyward Drive Aptos, CA 95003	
PROJECT NAM	Æ:	Washowich Monopoloe	
SFD []	SFR [] MFD [] COR [] COM []	•
OWNER:	Timothy & Ca	Camille Washowich TELEPHONE:	
OWNER ADDRESS:	685 Skyward	d Drive	
SPRINKLERED):	Yes [] No [X]	
RATE:	\$50	X 1 HOURS = FEE: \$50.00	
TOTAL DUE:		\$50.00	
	1	Fire Dept. Use Only	
DATE PAID:		INITIALS:	

Sheila McDaniel

From: Warren Eraut [erautlaw@yahoo.com]

Sent: Tuesday, December 02, 2008 10:08 AM

To: Sheila McDaniel Subject: Permit #08-256

Dear Mrs. McDaniel: This email concerns the pending application for installation of a 40 foot tower, a new (and probably louder) generator, and associated "improvements" to the current use of the transmitting tower at 685 Skyward Drive, Aptos. The easement for use of the property was granted to the applicant's predecessors in interest by Kip Jackson quite some years ago. The predecessor users of the property, along with the current users, contribute nothing to the maintenance of the road association despite consistent and regular access to the facility. The predecessors in interests absolutely refused to contribute to the road association. The current facility generates an irritating noise at night - Irene and I have spent many a night listening to the equipment emit the irritating noise. The proposed "improvement" of a larger generator will bring with it more noise pollution. The current tower is hidden; the new one will be an eye-sore and will probably affect resale home values since one will now have to disclose the presence of the tower. The equipment that will be required for the installation of the "improvements" will involve a significant imposition on the neighborhood as various cranes, and other construction equipment try to access this site. The only available parking for the equipment will, of course, be our driveway. I tried to find a means by which to formally object via the County web-site; I was not able to do so. Please let me know if I need to file a formal objection by use of some required form. Otherwise, we would like to be "on record" as formally objecting to this expanded use of the facility. The one on site is bad enough. Thank you. Warren E. Eraut (645 Skyward Drive, Aptos (work:688-4569)

Sheila McDaniel

From: Sheila McDaniel

Sent: Tuesday, December 02, 2008 1:19 PM

To: 'Jim Brownson'

Subject: RE: Proposed Development on Skyward Drive

You are welcome to make an appointment with me and take a look at the plans. Essentially the project proposal is to recognize the existing facility because the facility was previously approved, but the applicant did not obtain a building permit for the facility.

----Original Message----

From: Jim Brownson [mailto:jimbrownson@earthlink.net]

Sent: Friday, November 28, 2008 2:38 PM

To: Sheila McDaniel

Subject: Proposed Development on Skyward Drive

Greetings Sheila,

I am the Skyward Drive Road Association President. A number of neighbors have asked me about the proposed development for an AT&T cell tower on Skyward Drive. I told the that I would attempt to get more information.

How can we find out more about this proposal?

Sincerely, Jim Brownson 684-1963

Owner: Camille and Timothy Washovich

Standards Ordinance), in that the cell facility will not adversely shade adjacent properties.

The proposed cell facility will not be improperly proportioned to the parcel size or the character of the neighborhood as specified in General Plan Policy 8.6.1 (Maintaining a Relationship Between Structure and Parcel Sizes), in that the proposed cell facility will comply with the site standards for the Residential Agriculture zone district (including, lot coverage, floor area ratio, height, setbacks, and number of stories) and will result in a structure consistent with a design that could be approved on any similarly sized lot in the vicinity. In addition, the monopole and other antennas are not visible from surrounding properties, which comply with General Plan and Zoning Ordinance policies limiting visual impacts.

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.

This finding can be made, in that the proposed facility will not generate additional traffic except that necessary to add the proposed antenna and service the facility, or adversely impact existing roads and intersections in the surrounding area. However, the project has been conditioned to require the property owner to enter into the road maintenance association, if they have not already done so, to cover the share of road improvement costs associated with the dwelling and wireless facility.

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 proposed cell facility is currently situated among existing trees, which screen the structures (pole and building) from view. This existing facility is only visible once you are on the subject property adjacent to the development because the property slopes up a steep hill from the property line to the location of the development. 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.

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