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DATE: February 22, 2012

TO: Chairman and Members of the Community Development Commission

FROM: Economic and Community Development Department

SUBJECT: **A RESOLUTION APPROVING AN AMENDMENT TO A CONDITIONAL USE PERMIT (RCUP-11-00001) TO UPGRADE EXISTING TELECOMMUNICATION FACILITIES ON AN EXISTING COMMERCIAL OFFICE BUILDING LOCATED AT 1155 SPORTFISHER WAY- AT&T- APPLICANT- AT&T**

**SYNOPSIS**

The item under consideration is an amendment to Conditional Use Permit (RCUP-11-00001) to upgrade existing telecommunication facilities on an existing commercial office building located at 1155 Sportfisher Way. Staff is recommending that the Commission approve the project and adopt the resolution as attached.

**BACKGROUND**

On May 26, 1981, the Commission adopted Resolution No. R-6-81 which approved the construction of a two-story, 35-foot-high, 8,600-square-foot office building situated on an 11,000 square foot site located at 1155 Sportfisher Way.

On January 4, 1994, the Commission adopted Resolution No. 94-C-01, approving a conditional use permit and variation to allow for a minor multi-user telecommunication facility for transmitting and receiving antennas. The use permit allowed for a variety of telecommunications assets, including paging, two-way radio, PCS cellular and Public Safety and Governments Communications with a maximum of 22 antennas and 2 satellite dish mounts. It should be noted that the Commission also approved a variation because the applicant provided 3 feet of screening when 4 feet is required.

On January 20, 1998, the Commission adopted Resolution No. 98 C-08 allowing an additional 6 antennas for a total of 28 antennas and 2 satellite dish mounts.

On October 26, 2010, the Commission adopted Resolution No. 10-R0638-3 allowing an additional 6 panel antennas, 3 directional antennas, 5 DAP head units, 4 GPS antennas and 1 equipment cabinet approximately 3' X 2' to be installed at ground level within the garage.

**Land Use and Zoning:** The subject site is located within Subdistrict 8B of the "D" Downtown District. Subdistrict 8B is primarily intended to provide for a mix of hospital

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and medical uses, office development, interspersed with residential development in response to market demand.

**Project Description:** The project proposes to change out the existing outdated AT&T telecommunication facilities. AT&T is proposing to add fourth generation wireless technologies (4G) to its existing cell site at this location. Transmission of data, video and voice over an internet protocol technology will be provided with the new antennas and support equipment. The project proposes to replace the existing (12) 6-foot high roof top antennas with (12) 8-foot high antennas mounted on a 5-foot high antenna support. Six (6) remote radio units (RRU's) will also be installed with the antennas, two (2) RRU's for each sector of four (4) antennas. The associated wireless equipment will be housed within the existing indoor equipment room located on the second floor.

Currently, the existing AT&T telecommunication facilities are approximately 11-feet high above the existing building roofline (39.6-feet) and the proposed facilities will be approximately 13-feet high above the roofline. The antennas will be placed on the existing building rooftop and will be entirely screened from public view (see attached plans). The screening material consists of reinforced fiberglass polymer with a "louver type" design painted to match the exterior color of the building.

Conditional Use Permit: An amendment to the existing Conditional Use Permit is required when adding any additional telecommunication facilities.

**Environmental Determination:** An environmental report (radio frequency study) was prepared for this project (see attachment). The radio frequency (RF) study evaluated all of the existing telecommunications facilities as well as the proposed facilities and their total RF output in accordance with Federal Regulations 47C.F.R 1.1307. The results of the study indicated that the maximum RF cumulative exposure from all the carriers will be less than 5 percent of the maximum allowable under federal law. It should also be noted that as distance is increased from the source (antennas) by a factor of 10 (example from 5 feet to 50 feet); exposure is reduced by 100 fold. The report also recommended that a sign be placed adjacent to the antennas (on the rooftop) with appropriate contact information in order to alert maintenance or other workers approaching the antennas to the presence of RF transmissions. The project has been conditioned to include this warning sign.

Based on the analysis of the environmental report, a Certificate of Exemption has been prepared for the project (Article 19 Section 15301(e)). Under the provisions of the California Environmental Quality Act, the Community Development Commission will consider the exemption during its hearing on the project.

**ANALYSIS**

Staff's analysis focused on the justification of telecommunication facility for this site, the ability of the telecommunication facility to blend into the existing design of the building and/or be adequately screened from public view and the consistency with the underlying Redevelopment Plan and Zoning Ordinance.

Section 301 Redevelopment Plan: Requires eliminating blight and/or ensuring as far as possible that the causes of blighting conditions will be eliminated. The proposed locations of the additional communications facilities on the existing commercial office building, does not increase nor cause to increase blight in that area and/or the surrounding neighborhood.

Site Justification: Staff reviewed the applicant's rationale for selection of this particular site as opposed to alternate sites located within the service area. Part of the review also included the applicant's overall master plan which indicates the proposed site in relation to the provider's existing and proposed network of sites located within the City and surrounding areas. AT&T's Master Plan indicates that currently there are 18 telecommunication sites in or adjacent to the City with 4 more sites planned (see attachment).

The rationale or justification for choosing this site as opposed to alternate sites is as follows:

1. The applicant already has existing facilities placed on the building.
2. The site location at the top of the slope/bluff gives excellent coverage.
3. The height of the existing building at approximately 40 feet high provides better coverage than surrounding similar commercial buildings.
4. The site location is adjacent to Interstate 5.
5. The site is located within a commercial district.
6. The proposed alternative sites have a greater impact on the surrounding neighborhoods.
7. The site has been identified in the applicant's overall master plan.

Staff also reviewed the applicant's ability to incorporate the telecommunication facilities into the design of the building and/or camouflage through screening techniques. This can be accomplished in a variety of ways including but not limited to the following:

- . Screening materials shall match the color, size, proportion, style, texture and quality with the exterior design and architectural style of the building;
- . Facility components, including all antenna panels, should be mounted either inside the structure or behind the screening elements;
- . The camouflage design techniques applied should result in an installation that prevents the facility from visually dominating the surrounding area.
- . All antenna panels and accessory components mounted on the exterior of the structure should be painted and textured or otherwise coated to match the predominant color and surface texture of the mounting structure;

- . Antenna panels should be located and arranged on the structure to replicate the equipment already mounted to the structure;
- . All accessory wireless equipment associated with operation of any wireless communication facility should be screened.

Staff believes the project as designed, with the “screen box” painted and textured to match the exterior of the existing building, adequately screens the telecommunication facilities (antennas and remote radio units) from public view. The associated wireless equipment will be located within the building and therefore not be exposed to public view.

The proposed telecommunication facilities site location is justified and the proposed facilities have been adequately screened and therefore, will not be detrimental to the surrounding neighborhood. In addition, the RF study indicates that public exposure to microwaves is well below the maximum allowable federal standards.

### **COMMISSION OR COMMITTEE REPORTS**

Not applicable.

### **FISCAL IMPACT**

Not applicable.

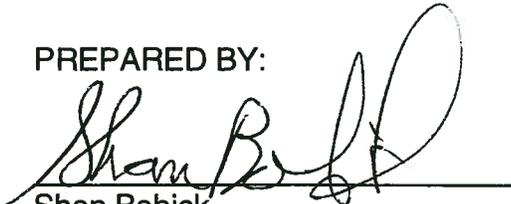
### **CITY ATTORNEY'S ANALYSIS**

Pursuant to Oceanside Zoning Ordinance Article 41, Section 4102 the Community Development Commission is authorized to hold a public hearing on this project's applications. Consideration of the project should be based on the evidence presented at the public hearing. After conducting the public hearing, the Commission shall approve, conditionally approve, or disapprove the project. The resolution has been reviewed and approved as to form by the City Attorney.

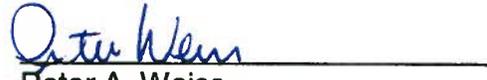
**RECOMMENDATION**

Staff recommends that the Commission adopt the resolution approving an amendment to Conditional Use Permit (RCUP-11-00001) to upgrade existing telecommunication facilities on an existing commercial office building located at 1155 Sportfisher Way.

PREPARED BY:

  
Shan Babick  
Associate Planner

SUBMITTED BY:

  
Peter A. Weiss  
Executive Director

REVIEWED BY:

Michelle Skaggs Lawrence, Deputy City Manager  
Kathy Baker, Redevelopment Manager


**EXHIBITS/ATTACHMENTS**

1. Resolution
2. Site Plan/Elevations
3. Notice of Exemption
4. Resolution No. 10-R0638-3
5. Radio Frequency Environmental Report
6. Photograph Simulation
7. AT& T's Master Plan Map



1 RESOLUTION NO. 12-

2 A RESOLUTION OF THE COMMUNITY DEVELOPMENT  
3 COMMISSION OF THE CITY OF OCEANSIDE APPROVING  
4 AN AMENDMENT TO CONDITIONAL USE PERMIT (RCUP-  
5 11-00001) TO UPGRADE AN EXISTING  
6 TELECOMMUNICATION FACILITIES ON AN EXISTING  
7 COMMERCIAL OFFICE BUILDING LOCATED AT 1155  
8 SPORTSFISHER WAY – APPLICANT: AT&T

6 WHEREAS, on February 22, 2012, the Community Development Commission held its  
7 duly noticed public hearing for an application for an amendment to Conditional Use Permit  
8 (RCUP-11-00001) to upgrade an existing telecommunications facilities on an existing  
9 commercial office building located at 1155 Sportsfisher Way;

10 WHEREAS, a Categorical Exemption was prepared by the Resource Officer of the City  
11 of Oceanside for this application pursuant to the California Environmental Quality Act of 1970  
12 (CEQA) and the State Guidelines implementing the Act. The project is considered an infill  
13 development and will not have a detrimental effect on the environment based on Article 19  
14 Section 15332 (a through e) of CEQA;

15 WHEREAS, pursuant to Government Code §66020(d)(1), NOTICE IS FURTHER  
16 GIVEN that the 90-day period to protest the imposition of any fee, dedication, reservation, or  
17 other exaction described in this resolution begins on the effective date of this resolution and any  
18 such protest must be in a manner that complies with Section 66020; and

19 WHEREAS, pursuant to Oceanside Zoning Ordinance §4603, this resolution becomes  
20 effective upon its adoption.

21 NOW, THEREFORE, the Community Development Commission of the City of  
22 Oceanside does resolve as follows:

23 FINDINGS:

24 **For the Amended Conditional Use Permit:**

25 1. The proposed telecommunication facility is consistent with the land use objectives  
26 for the Subdistrict 8B commercial land use district in that the operation of this telecommunication  
27 facility will be adequately screened to reduce the visual impacts from the surrounding  
28 neighborhood. In addition, the conditions placed on the project will ensure that this use will not be  
detrimental to the surrounding neighborhood.

1           2.       The proposed restrictions for the conditional use are consistent with the General  
2 Plan and Redevelopment Plan in that they have been written to restrict the telecommunication  
3 operation to ensure neighborhood safety and compatibility. In addition, the operation of the  
4 conditional use will not be detrimental to the public health, safety or welfare of persons residing  
5 or working in or adjacent to the subject site.

6           3.       The conditional use is subject to and must comply with all local conditions and  
7 as well as all state, federal and any other applicable regulatory agencies or permit authorities.

8       **For the Telecommunication Facilities:**

9           1.       The placement, construction or modification of a wireless communication  
10 facility in the proposed location is necessary for the provision of wireless services to City  
11 residents, business, and their owners, customers, guests or other persons traveling in or about  
12 the City. The project proposes to add fourth generation wireless technologies (4G) to its  
13 existing cell site to meet increasing customer demand. Transmission of data, video and voice  
14 over an internet protocol technology will be provided with the new upgraded antennas. The  
15 applicant already has existing facilities on this co-user site and this site has been identified in  
16 the applicant's master plan.

17           2.       The proposal demonstrates a reasonable attempt to minimize stand-alone  
18 facilities, is designed to protect the visual quality of the City, and will not have an undue impact  
19 on historic resources, scenic views or other natural or man-made resources. The proposed  
20 project is a co-user communication facility and will replace the existing outdated facilities. In  
21 addition, the facilities have been adequately screened to reduce the impacts to the surrounding  
22 neighborhood.

23           3.       Where an applicant claims a significant gap in its coverage, that gap must be  
24 geographically defined and the gap proved by clear and convincing evidence. The burden of  
25 objectively proving a significant gap in its coverage rests solely with the applicant. The  
26 applicant has provided a coverage study that indicates a significant coverage gap should these  
27 facilities not be installed. Because the applicant already has existing facilities at this co-user  
28 site, the facility proposed is the least intrusive means of closing the significant coverage gap.

          4.       Alternatives have been provided to staff, including but not limited to additional  
and/or different locations and designs, and staff has determined that the application as approved

1 would have a lesser impact on the aesthetics and welfare of the surrounding community as  
2 compared to other alternatives. The applicant has provided alternatives sites however, this site  
3 is the least intrusive to the surrounding community because there are already existing facilities  
4 on the site.

5 The amendment to Conditional Use Permit (RCUP-11-00001) is hereby approved  
6 subject to the following conditions:

7 **Building:**

- 8 1. Applicable Building Codes and Ordinances shall be based on the date of submittal for  
9 Building Division plan check.
- 10 2. The granting of approval under this action shall in no way relieve the applicant from  
11 compliance with all State and local building codes.

12 **Planning:**

- 13 3. This amendment to Conditional Use Permit (RCUP-11-00001) shall expire on February  
14 22, 2014, unless implemented as required by the Zoning Ordinance.
- 15 4. This amended Conditional Use Permit approves telecommunication facilities as depicted  
16 on the plans and exhibits presented to the Community Development Commission for  
17 review and approval. No deviation from these approved plans and exhibits shall occur  
18 without Economic and Community Development Department approval.
- 19 5. The applicant, permittee or any successor-in-interest shall defend, indemnify and hold  
20 harmless the City of Oceanside, its agents, officers or employees from any claim, action  
21 or proceeding against the City, its agents, officers, or employees to attack, set aside, void  
22 or annul an approval of the City, concerning amended Conditional Use Permit (RCUP-  
23 11-00001). The City will promptly notify the applicant of any such claim, action or  
24 proceeding against the City and will cooperate fully in the defense. If the City fails to  
25 promptly notify the applicant of any such claim, action or proceeding or fails to  
26 cooperate fully in the defense, the applicant shall not, thereafter, be responsible to  
27 defend, indemnify or hold harmless the City.
- 28 6. A covenant or other recordable document approved by the City Attorney shall be  
prepared by the applicant developer and recorded prior to the issuance of building  
permits. The covenant shall provide that the property is subject to this resolution, and  
shall generally list the conditions of approval.

- 1 7. Prior to the issuance of building permits, compliance with the applicable provisions of  
2 the City's anti-graffiti Ordinance (Ordinance No. 93-19/Section 20.25 of the City Code)  
3 shall be reviewed and approved by the Economic and Community Development  
4 Department. These requirements, including the obligation to remove or cover with  
5 matching paint all graffiti within 24 hours, shall be recorded in the form of a covenant  
6 affecting the subject property.
- 7 8. Prior to the transfer of ownership and/or operation of the site, the owner shall provide a  
8 written copy of the applications, staff report and resolutions for the project to the new  
9 owner and/or operator. This notification's provision shall run with the life of the project  
10 and shall be recorded as a covenant on the property.
- 11 9. Failure to meet any conditions of approval for this development shall constitute a  
12 violation of the amended Conditional Use Permit (RCUP-11-00001).
- 13 10. This Conditional Use Permit shall be called for review by the Community Development  
14 Commission if complaints are filed and verified as valid by the Code Enforcement Office  
15 concerning the violation of any of the approved conditions.
- 16 11. Upon one year of facility operation, and upon any change-out of facility equipment, the  
17 permittee(s) shall provide to the Redevelopment Manager a statement of radio-frequency  
18 radiation output and output compliance with the limitations of governing licensing  
19 authorities.
- 20 12. The permittee(s) shall exercise a good-faith effort to incorporate the best available  
21 equipment technology to effect a reduction in the visual presence of the approved  
22 antenna and facility equipment. The change-out and retrofit of equipment shall be  
23 conducted by the permittee(s) after such equipment becomes available and exhibits  
24 common use at similar facilities. Upon the City's request and discretion, the  
25 permittee(s) shall be required to provide an independently prepared technical analysis  
26 demonstrating compliance with this condition. The permittee(s) inability to demonstrate  
27 the use of current technologies may be grounds for the revocation of the Conditional Use  
28 Permit.
13. The permittee(s) shall exercise a good-faith effort to cooperate with other  
communication providers and services in the operation of a co-user facility, provided

- 1 such shared usage does not impair the operation of the approved facility. Upon the  
2 City's request and discretion, the permittee(s) shall provide an independently prepared  
3 technical analysis to substantiate the existence of any practical technical prohibitions  
4 against the operation of a co-use facility. The permittee(s)' non-compliance with this  
5 requirement may be grounds for the revocation of the Conditional Use Permit.
- 6 14. The approved communication facility shall be subject to, and governed by, any and all  
7 licensing authority by any governmental agency having jurisdiction. The City's local  
8 approval of a communication facility shall not exempt the permittee(s) from any such  
9 pre-emptive regulations.
- 10 15. The final design, aesthetic devices, and construction of the facility shall be in accordance  
11 with the plans representing the approved project and the conditions of approval. In  
12 addition, the final construction plans shall demonstrate consistency with the plans and  
13 other exhibit materials approved by the Community Development Commission. These  
14 requirements shall be shown and demonstrated on the plans submitted for building  
15 permits and shall be reviewed and approved by the Redevelopment Manager prior to the  
16 issuance of building permits.
- 17 16. Any apparent inconsistency resulting from the construction of the approved facility shall  
18 be a basis for a call for the review of the Conditional Use Permit.
- 19 17. Upon termination of the approved facility use, the permittee shall be responsible to  
20 remove the entire facility from the premises.
- 21 18. No metallic and/or reflective paints or surfaces shall be permitted.
- 22 19. All existing non-functioning and/or non-utilized exterior telecommunications equipment  
23 shall be removed prior to issuance of building permit.
- 24 20. The applicant shall submit a field testing report after installation of the  
25 telecommunication facilities to demonstrate that the project will not jeopardize the  
26 public safety from exposure to excessive radio frequency energy.
- 27 21. Applicant shall submit a cumulative Radio Frequency (RF) study which fully complies  
28 with the Federal Communication Commission regulations regarding human exposure to  
RF prior to issuance of building permit.

1 22. Within thirty (30) calendar days following the installation of any wireless  
2 communication facility the applicant shall provide FCC documentation to the  
3 Redevelopment Manager indicating that the unit has been inspected and tested in  
4 compliance with FCC standards. Such documentation shall include the make and  
5 model (or other identifying information) of the unit tested, the date and time of the  
6 inspection, methodology used to make the determination, the name and title of the  
7 person(s) conducting the tests, and a certification that the unit is properly installed and  
8 working with applicable FCC standards. As to DAS installations, the required FCC  
9 documentation certification shall be made only by the wireless carrier(s) using the DAS  
10 systems rather than the DAS system provider.

11 23. The installation of any wireless communications facility shall be in compliance with all  
12 applicable provisions of the state building standards code and any applicable local  
13 amendments thereto.

14 24. Any substantial change in the type of antenna and/or facility installed in a particular  
15 location shall require the prior approval of the Redevelopment Manager or his/her  
16 designee. Failure to obtain the prior approval of the Redevelopment Manager or his/her  
17 designee may be grounds for institution of use permit revocation proceedings as well as  
18 grounds to institute any other enforcement action available under federal, state or local  
19 law.

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1 25. An appropriate sized sign (minimum size 2' X 3') shall be placed on the roof adjacent to  
2 the antennas with appropriate contact information in order to alert maintenance or other  
3 workers approaching the antenna to the presence of RF transmission. Specifically, the  
4 sign shall state the following: NOTICE The radio frequency (RF) emissions at this site  
5 have been evaluated for potential RF exposure to personnel who may need to work near  
6 these antennae.

7 RF EXPOSURE AT 8 FEET OR CLOSER TO THE FACE OF THE ANTENNA MAY  
8 EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS ONLY  
9 QUALIFIED RF WORKERS MAY WORK IN THIS 8 FOOT EXCLUSION  
10 ZONE. OTHERS WHO NEED TO WORK IN THE EXCLUSION ZONE  
11 SHOULD CALL \_\_\_\_\_ FOR INSTRUCTIONS.

12 REFER TO SITE \_\_\_\_\_

13 PASSED AND ADOPTED by the Oceanside Community Development Commission of  
14 the City of Oceanside this \_\_\_\_\_ day of \_\_\_\_\_ 2012 by the following votes:

15 AYES:

16 NAYS:

17 ABSENT:

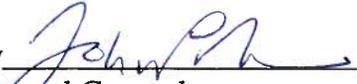
18 ABSTAIN:

19  
20 \_\_\_\_\_  
Chairman

21 ATTEST:

22 \_\_\_\_\_  
23 Secretary

24 APPROVED AS TO FORM:  
25 OFFICE OF THE CITY ATTORNEY

26 by  \_\_\_\_\_  
27 General Counsel

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RESOLUTION NO. 10-R0638-3

A RESOLUTION OF THE COMMUNITY DEVELOPMENT COMMISSION OF THE CITY OF OCEANSIDE APPROVING AN AMENDMENT TO CONDITIONAL USE PERMIT (C-204-09) TO ADD TELECOMMUNICATION FACILITIES TO AN EXISTING COMMERCIAL OFFICE BUILDING LOCATED AT 1155 SPORTSFISHER WAY - APPLICANT: CLEAR WIRELESS, LLC

WHEREAS, on August 25, 2010, the Community Development Commission held its duly noticed public hearing for an application for an amendment to Conditional Use Permit (C-204-09) for the installation of a telecommunications on an existing commercial office building located at 1155 Sportsfisher Way;

WHEREAS, the Redevelopment Advisory Committee (RAC) of the City of Oceanside did, on July 7, 2010, review and recommend approval of an amendment to Conditional Use Permit (C-204-09);

WHEREAS, a Categorical Exemption was prepared by the Resource Officer of the City of Oceanside for this application pursuant to the California Environmental Quality Act of 1970 (CEQA) and the State Guidelines implementing the Act. The project is considered an infill development and will not have a detrimental effect on the environment based on Article 19 Section 15301(e) of CEQA;

WHEREAS, pursuant to Government Code §66020(d)(1), NOTICE IS FURTHER GIVEN that the 90-day period to protest the imposition of any fee, dedication, reservation, or other exaction described in this resolution begins on the effective date of this resolution and any such protest must be in a manner that complies with Section 66020; and

WHEREAS, pursuant to Oceanside Zoning Ordinance §4603, this resolution becomes effective upon its adoption.

NOW, THEREFORE, the Community Development Commission of the City of Oceanside does resolve as follows:

**FINDINGS:**

**For the Conditional Use Permit:**

1. The proposed telecommunication facility is consistent with the land use objectives for the Subdistrict 8B commercial land use district in that the operation of a telecommunication

1 facility coupled with the conditions of the Use Permit will not be detrimental to the surrounding  
2 neighborhood.

3 2. The proposed restrictions for the conditional use are consistent with the General  
4 Plan and Redevelopment Plan in that they have been written to restrict the telecommunication  
5 operation to ensure neighborhood compatibility. In addition, the operation of the conditional  
6 use will not be detrimental to the public health, safety or welfare of persons residing or working  
7 in or adjacent to the subject site.

8 3. The conditional use is subject to and must comply with all local conditions and  
9 conditions listed within this resolution as well as all state, federal and any other applicable  
10 regulatory agencies or permit authorities.

11 The amendment to Conditional Use Permit (C-204-09) is hereby approved subject to the  
12 following conditions:

13 **Building:**

- 14 1. Applicable Building Codes and Ordinances shall be based on the date of submittal for  
15 Building Division plan check. (Currently the 2007 California Building Code and 2007  
16 California Electrical Code)
- 17 2. The granting of approval under this action shall in no way relieve the applicant from  
18 compliance with all State and local building codes.
- 19 3. All electrical, communication, CATV, etc. service lines within the exterior lines of the  
20 property shall be underground (City Code Sec. 6.30).
- 21 4. The building plans for this project are required by State law to be prepared by a licensed  
22 architect or engineer and must be in compliance with this requirement prior to submittal for  
23 building plan review.
- 24 5. The developer shall monitor, supervise and control all building construction and supporting  
25 activities so as to prevent these activities from causing a public nuisance, including, but not  
26 limited to, strict adherence to the following:
  - 27 a) Building construction work hours shall be limited to between 7:00 a.m. and 6:00  
28 p.m. Monday through Friday, and on Saturday from 7:00 a.m. to 6:00 p.m. for  
work that is not inherently noise-producing. Examples of work not permitted on  
Saturday are concrete and grout pours, roof nailing and activities of similar

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noise-producing nature. No work shall be permitted on Sundays and Federal Holidays (New Year’s Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day) except as allowed for emergency work under the provisions of the Oceanside City Code Chapter 38 (Noise Ordinance).

b) The construction site shall be kept reasonably free of construction debris as specified in Section 13.17 of the Oceanside City Code. Storage of debris in approved solid waste containers shall be considered compliance with this requirement. Small amounts of construction debris may be stored on-site in a neat, safe manner for short periods of time pending disposal.

6. A complete structural analysis of the existing buildings vertical and lateral load bearing systems is required to verify that the new equipment loads will not overstress the existing structure(s).

**Fire:**

7. Stationary storage battery systems having an electrolyte capacity of more than 50 gallons for flooded lead acid, nickel cadmium and valve regulated lead acid, or 1,000 pounds for lithium-ion, used for facility standby power, emergency power or uninterrupted power supplies, shall comply with Section 608 of the CDC current edition and Table 608.1.

8. Cell sites are required to have a final inspection by the Fire Department.

9. If quantity of electrolyte solution is 10 gallons or greater, visible hazard identification signs as specified in NFPA 704 shall be placed at entrance4 to battery storage room.

10. The Fire Department will require the quantity of lead acid batteries proposed. In addition, the electrolyte volume will need to be provided for the batteries. Please indicate the amount on the plan.

**Planning:**

11. This amendment to Conditional Use Permit (C-204-09) shall expire on August 25, 2013, unless implemented as required by the Zoning Ordinance.

12. This amended Conditional Use Permit approves telecommunication facilities as depicted on the plans and exhibits presented to the Community Development Commission for review and approval. No deviation from these approved plans and exhibits shall occur without Economic and Community Development Department approval.

- 1 13. The applicant, permittee or any successor-in-interest shall defend, indemnify and hold  
2 harmless the City of Oceanside, its agents, officers or employees from any claim, action  
3 or proceeding against the City, its agents, officers, or employees to attack, set aside, void  
4 or annul an approval of the City, concerning amended Conditional Use Permit (C-204-  
5 09). The City will promptly notify the applicant of any such claim, action or  
6 proceeding against the City and will cooperate fully in the defense. If the City fails to  
7 promptly notify the applicant of any such claim, action or proceeding or fails to  
8 cooperate fully in the defense, the applicant shall not, thereafter, be responsible to  
9 defend, indemnify or hold harmless the City.
- 10 14. A covenant or other recordable document approved by the City Attorney shall be  
11 prepared by the applicant developer and recorded prior to the issuance of building  
12 permits. The covenant shall provide that the property is subject to this resolution, and  
13 shall generally list the conditions of approval.
- 14 15. Prior to the issuance of building permits, compliance with the applicable provisions of  
15 the City's anti-graffiti Ordinance (Ordinance No. 93-19/Section 20.25 of the City Code)  
16 shall be reviewed and approved by the Economic and Redevelopment Department.  
17 These requirements, including the obligation to remove or cover with matching paint all  
18 graffiti within 24 hours, shall be recorded in the form of a covenant affecting the subject  
19 property.
- 20 16. Prior to the transfer of ownership and/or operation of the site, the owner shall provide a  
21 written copy of the applications, staff report and resolutions for the project to the new  
22 owner and/or operator. This notification's provision shall run with the life of the project  
23 and shall be recorded as a covenant on the property.
- 24 17. Failure to meet any conditions of approval for this development shall constitute a  
25 violation of the amended Conditional Use Permit (C-204-09).
- 26 18. This Conditional Use Permit shall be called for review by the Community Development  
27 Commission if complaints are filed and verified as valid by the Code Enforcement Office  
28 concerning the violation of any of the approved conditions.
19. Upon one year of facility operation, and upon any change-out of facility equipment, the  
permittee(s) shall provide to the Economic Development Director a statement of radio-

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frequency radiation output and output compliance with the limitations of governing licensing authorities.

20. The permittee(s) shall exercise a good-faith effort to incorporate the best available equipment technology to effect a reduction in the visual presence of the approved antenna and facility equipment. The change-out and retrofit of equipment shall be conducted by the permittee(s) after such equipment becomes available and exhibits common use at similar facilities. Upon the City's request and discretion, the permittee(s) shall be required to provide an independently prepared technical analysis demonstrating compliance with this condition. The permittee(s) inability to demonstrate the use of current technologies may be grounds for the revocation of the Conditional Use Permit.

21. The permittee(s) shall exercise a good-faith effort to cooperate with other communication providers and services in the operation of a co-user facility, provided such shared usage does not impair the operation of the approved facility. Upon the City's request and discretion, the permittee(s) shall provide an independently prepared technical analysis to substantiate the existence of any practical technical prohibitions against the operation of a co-use facility. The permittee(s)' non-compliance with this requirement may be grounds for the revocation of the Conditional Use Permit.

22. The approved communication facility shall be subject to, and governed by, any and all licensing authority by any governmental agency having jurisdiction. The City's local approval of a communication facility shall not exempt the permittee(s) from any such pre-emptive regulations.

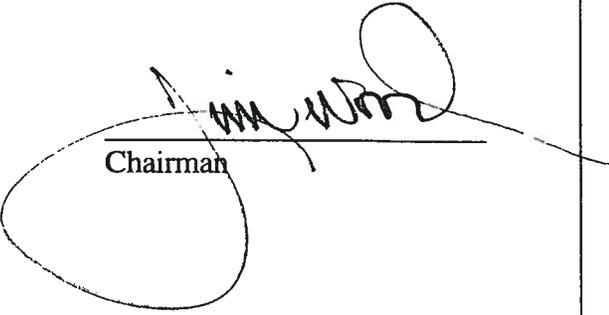
23. The final design, aesthetic devices, and construction of the facility shall be in accordance with the plans representing the approved project and the conditions of approval. In addition, the final construction plans shall demonstrate consistency with the plans and other exhibit materials approved by the Community Development Commission. These requirements shall be shown and demonstrated on the plans submitted for building permits and shall be reviewed and approved by the Economic and Community Development Director prior to the issuance of building permits.

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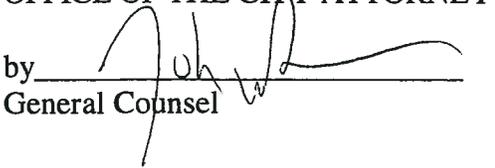
- 24. Any apparent inconsistency resulting from the construction of the approved facility shall be a basis for a call for the review of the Conditional Use Permit.
- 25. Upon termination of the approved facility use, the permittee shall be responsible to remove the entire facility from the premises.
- 26. No metallic and/or reflective paints or surfaces shall be permitted.
- 27. All existing non-functioning and/or non-utilized exterior telecommunications equipment shall be removed prior to issuance of building permit.
- 28. The applicant shall submit a field testing report after installation of the telecommunication facilities to demonstrate that the project will not jeopardize the public safety from exposure to excessive radio frequency energy.
- 29. Applicant shall submit a cumulative Radio Frequency (RF) study which fully complies with the Federal Communication Commission regulations regarding human exposure to RF prior to issuance of building permit.

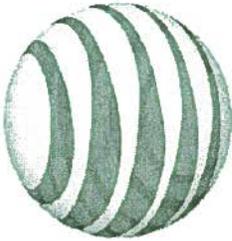
PASSED AND ADOPTED by the Oceanside Community Development Commission of the City of Oceanside this 25th day of August 2010 by the following votes:

AYES: WOOD, FELLER, KERN, LOWERY, SANCHEZ  
 NAYS: NONE  
 ABSENT: NONE  
 ABSTAIN: NONE

  
 \_\_\_\_\_  
 Chairman

ATTEST:  
  
 \_\_\_\_\_  
 Secretary

APPROVED AS TO FORM:  
 OFFICE OF THE CITY ATTORNEY  
 by   
 \_\_\_\_\_  
 General Counsel



**SANTE FE JUNCTION  
464 SUMMIT STREET  
OCEANSIDE, CALIFORNIA 92054  
SD0464 LTE OPTIMAL**

**RF INFORMATION**

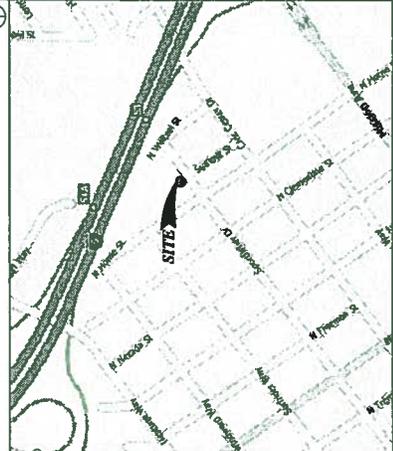
CARRIER SECTOR	ANTENNA MAKE AND MODEL	BEAM TILT (DEGREES)	ANTENNA RAD CENTER AGL (FEET)	AZIMUTH DEGREES TRUE	1% FREQUENCY RANGE MHz TO MHz	# OF R.F. CHANNELS/RANOS PER SECTOR	ERP (WATS) PER CHANNEL/RANOS	MAXIMUM ERP (WATS) FOR ALL ANTENNAE OF THIS TYPE IN THE SECTOR
AT&T A	KATHREIN-800-10768K	85H, 0-15V	48.75	0	UMTS: 885-894 GSM1905-1980 LTE 704-718	2	500	1000
AT&T B	KATHREIN-10768K	85H, 0-15V	48.75	120	UMTS: 885-894 GSM1905-1980 LTE 704-718	2	500	1000
AT&T C	KATHREIN-10768K	85H, 0-15V	48.75	240	UMTS: 885-894 GSM1905-1980 LTE 704-718	2	500	1000

**SPECIAL INSPECTIONS**

1. CONCRETE
2. REINFORCING STEEL
3. REINFORCING STEEL AND PROTECTIVE PAINT
4. REINFORCING STEEL AND PROTECTIVE PAINT
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11. REINFORCING STEEL AND PROTECTIVE PAINT
12. REINFORCING STEEL AND PROTECTIVE PAINT

NO. DESCRIPTION OF TYPE OF INSPECTION REQUIRED (LOCAL REFERENCE)

**VICINITY MAP**



**CONSULTANT TEAM**

- CLIENTS REPRESENTATIVE:**  
BLACK & VEATCH  
3030 WILLOW CREEK ROAD  
SUITE 300  
DENVER, CO 80202  
PHONE: (303) 371-1801  
CONTACT: ZACH WUNDER
- ARCHITECT:**  
JEFFREY FRANK & ASSOCIATES  
1000 JAMES PLAZA  
SUITE 200  
NEWPORT BEACH, CALIFORNIA 92660  
PHONE: (949) 760-3829  
FAX: (949) 760-3831  
CONTACT: JEFFREY FRANK
- SITE ACQUISITION:**  
PLANON INC.  
302 STATE PLACE  
ESCONDIDO, CALIFORNIA 92026  
PHONE: (714) 308-8413  
FAX: (714) 308-8413  
CONTACT: TERRY DORN

**DEVELOPMENT SUMMARY**

- APPLICATOR:**  
AT&T WIRELESS  
5738 RADFORD CENTER BOULEVARD, 2ND FLOOR  
SAN DIEGO, CALIFORNIA 92121
- LAND OWNER:**  
HARRIS/AMERSON 1180 STREET  
1113 SPANISHBERRY WAY, #100  
OCEANSIDE, CALIFORNIA 92054
- TOWER OWNER:**  
N/A
- ORDER ON-SITE TELECOM PROVIDER:**  
HOTEL, SPIRIT
- ASSESSORS PARCEL NUMBER:**  
147-230-33-00
- EXISTING ZONING:**  
D-P, OFFICE PROFESSIONAL
- PROPOSED PROJECT AREA:**  
NO CHANGE IN USE AREA
- EXISTING TYPE OF CONSTRUCTION:**  
T&E
- PROPOSED TYPE OF CONSTRUCTION:**  
T&E
- EXISTING OCCUPANCY:**  
0
- PROPOSED OCCUPANCY:**  
0
- JURISDICTION:**  
CITY OF OCEANSIDE

**SHEET INDEX**

- 1-1 TILE SHEET  
A-0 SITE PLANS  
A-1 EQUIPMENT FLOOR PLAN  
A-2 ELEVATIONS  
A-3 ANTENNA PLACEMENT  
A-4 ELECTRICAL  
A-5 MECHANICAL  
A-6 PLUMBING  
A-7 FIRE PROTECTION  
A-8 CIVIL  
A-9 LANDSCAPE ARCHITECTURE  
A-10 UTILITY
- RECEIVED**  
DEC 27 2011  
OCEANSIDE DEVELOPMENT

**APPLICABLE CODES**

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:  
CALIFORNIA FIRE CODE, 2010 EDITION  
CALIFORNIA BUILDING CODE, 2010 EDITION  
CALIFORNIA ELECTRICAL CODE, 2010 EDITION  
CALIFORNIA MECHANICAL CODE, 2010 EDITION  
CALIFORNIA PLUMBING CODE, 2010 EDITION  
CALIFORNIA GREEN BUILDING CODE, 2010 EDITION

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

**PROJECT DESCRIPTION**

- AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING SITE. THE SCOPE WILL CONSIST OF THE FOLLOWING:
- REMOVE (13) (0 6"-7" ANTENNAS.
  - INSTALL (13) (0 8" ANTENNAS BEHIND (0) MOLDED SCREENING.
  - INSTALL (24) (0) BRV'S.
  - INSTALL (13) (0) DC SURGE SUPPRESSORS.
  - INSTALL (1) (0) GPS ANTENNA.

**SCALE**

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 24"x36" FORMAT. IF THIS DRAWING SET IS NOT 24"x36", THIS SET IS NOT TO SCALE.

**ACCESSIBILITY DISCLAIMER**

THIS PROJECT IS AN UNLICENSED WIRELESS FTS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM BARRIERS ACCESS REQUIREMENTS.

**JRA**  
Jeffrey Frank & Associates, Inc.  
1 San Antonio Plaza, Suite 200  
Oceanside, CA 92054  
Phone: (760) 760-3829  
Fax: (760) 760-3831

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9738 PACIFIC CENTER BOULEVARD  
SAN DIEGO, CALIFORNIA 92121



**APPROVALS**

REF: \_\_\_\_\_  
DESIGN: \_\_\_\_\_  
CONSTRUCTION: \_\_\_\_\_  
SITE ACQUISITION: \_\_\_\_\_  
OWNER APPROVAL: \_\_\_\_\_

SITE NAME  
**SANTA FE JUNCTION**  
PROJECT NUMBER  
**SD0464 LTE OPTIMAL**  
464 SUMMIT STREET  
OCEANSIDE, CALIFORNIA 92054

**DRAWING DATES**

10/31/10  
11/24/10  
04/11/11  
04/11/11  
11/19/11  
12/12/11

PRELIM DTD (P1)  
100% FINAL DTD (P2)  
CLIENT COMMENTS (P3)  
REVISED DTD (P4)  
CLIENT COMMENTS (P5)  
CLIENT COMMENTS (P6)  
CLIENT COMMENTS (P7)

SHEET TITLE  
**TITLE SHEET**

**T-1**



**JRA**  
 Jeffrey R. Associates, Inc.  
 Architects & Interiors  
 1 San Antonio Plaza, Suite 250  
 San Antonio, TX 78205  
 Phone: (214) 792-3222  
 Fax: (214) 792-3331

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PREPARED FOR  
  
 3738 PACIFIC CENTER BOULEVARD  
 SAN ANTONIO, TEXAS 78204  
 SAN ANTONIO, CALIFORNIA 92121



APPROVALS

REF. \_\_\_\_\_

OWNER \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

SITE ACQUISITION \_\_\_\_\_

CORNER APPROVAL \_\_\_\_\_

SITE NAME  
**SANTA FE JUNCTION**

PROJECT NUMBER  
**SD0464 LTE OPTIMAL**

444 SUMMIT STREET  
 OCCASIDE, CALIFORNIA 92654

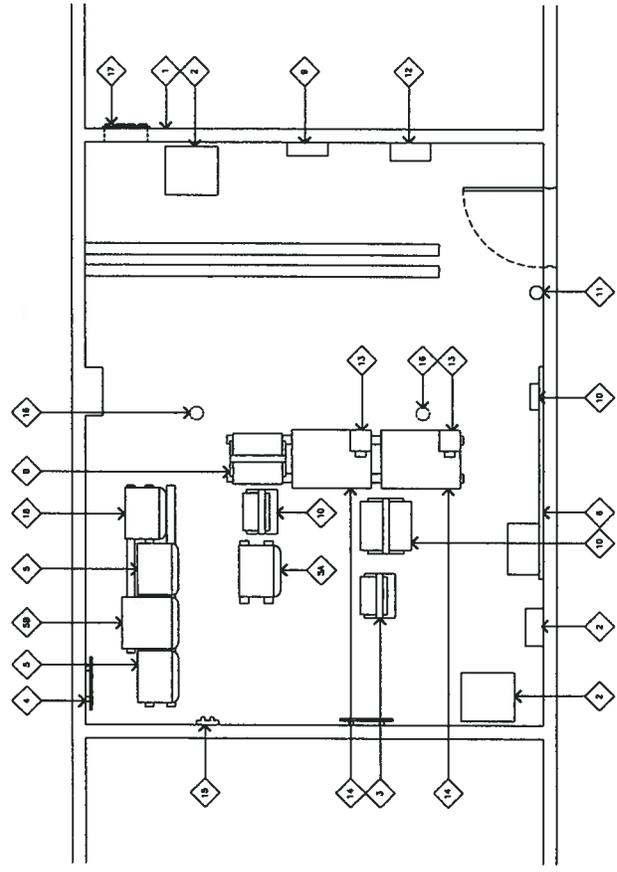
DRAWING DATE

10/31/10 PERMANENT (P1)  
 11/04/10 ISSUE FINAL 2D'S (P2)  
 04/11/11 CLIENT COMMENTS (P3)  
 05/11/11 CLIENT COMMENTS (P4)  
 08/22/11 CLIENT COMMENTS (P5)  
 11/18/11 CLIENT COMMENTS (P6)  
 12/02/11 CLIENT COMMENTS (P7)  
 12/17/11 CLIENT COMMENTS (P8)

SHEET TITLE  
**EQUIPMENT FLOOR PLAN**

**A-1**

- EQUIPMENT FLOOR PLAN KEYNOTES**
- 1 (C) AT&T TOWER IMPROVEMENT ON SECOND FLOOR.
  - 2 (C) AT&T FAN COIL.
  - 3 (C) 19" AT&T WOODRIDGE DATA RACKS TO BE RELOADED FOR (N) LTE EQUIPMENT WITH SURGE SUPPRESSION.
  - 4 (C) AT&T WALL MOUNTED WASH GROUND GAS BAR (WGB).
  - 5 (C) AT&T INDOOR 2250 EQUIPMENT CABINET.
  - 6 (C) AT&T INDOOR 3508 WATS EQUIPMENT CABINET.
  - 7 (C) AT&T INDOOR 48VDC WATS EQUIPMENT CABINET.
  - 8 (C) AT&T TELCO BACKBAND.
  - 9 (C) (4) AT&T TOWA CABINETS.
  - 10 (C) AT&T INDOOR 48VDC 48VDC WATS EQUIPMENT CABINET.
  - 11 (C) AT&T ELECTRICAL PANEL.
  - 12 (C) AT&T EXTERNAL ALARM CABINET.
  - 13 (C) AT&T FIRE EXTINGUISHER.
  - 14 (C) AT&T SERVICE DISCONNECT.
  - 15 (C) AT&T 800 AMP BULK BATTERY DISCONNECT WITH CENTRAL CABLE LADDER.
  - 16 (C) AT&T BATTERY RACK.
  - 17 (C) AT&T EYE WASH STATION.
  - 18 (C) (1) AT&T SMOKE DETECTORS.
  - 19 (C) AT&T WIREMESH ENTRY POINT WITH COAX FROM EQUIPMENT TO BATTERY.
  - 20 (C) AT&T INDOOR 3508 WATS EQUIPMENT CABINET.
  - 21 (C) 24" AT&T INDOOR 48VDC CONVERTER AND DISTRIBUTION RACK.



NOT USED

SCALE: NONE

3

NOT USED

SCALE: NONE

2

EQUIPMENT FLOOR PLAN, SECOND FLOOR

SCALE: 1/16"=1'-10"

0' 2' 4' 6' 8' 10'

1

**JIRA**  
Jeffrey Irvine & Associates, Inc.  
Architects & Telecommunications  
1 San Antonio Plaza, Suite 250  
San Antonio, CA 92108  
Phone: (408) 794-3339  
Fax: (408) 794-3851

PREPARED FOR



3738 PACIFIC CENTER BUILDING  
SECOND FLOOR  
SAN DIEGO, CALIFORNIA 92121



APPROVALS

REF. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

SITE ACQUISITION \_\_\_\_\_

OWNER APPROVAL \_\_\_\_\_

SITE NAME  
**SANTA FE JUNCTION**

PROJECT NUMBER  
**SDD0464 LTE OPTIMAL**

484 SUMMIT STREET  
OCEANSIDE, CALIFORNIA 92054

DRAWING DATES

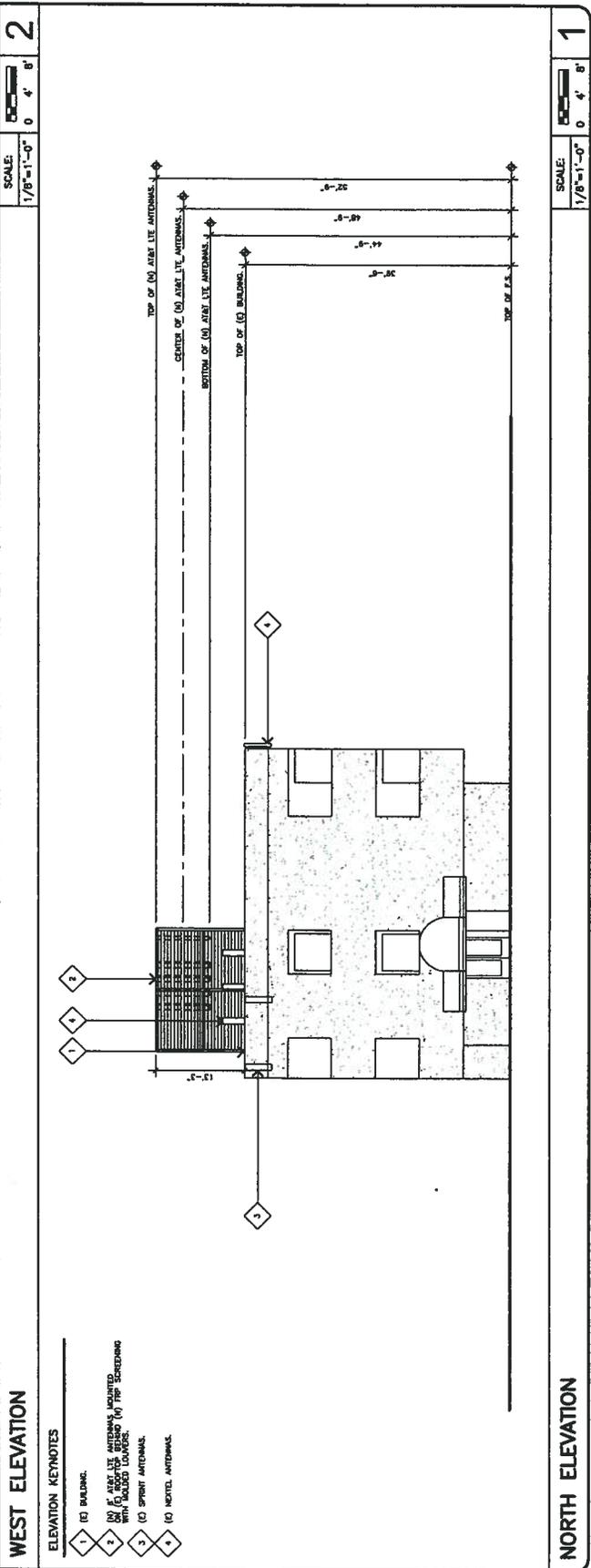
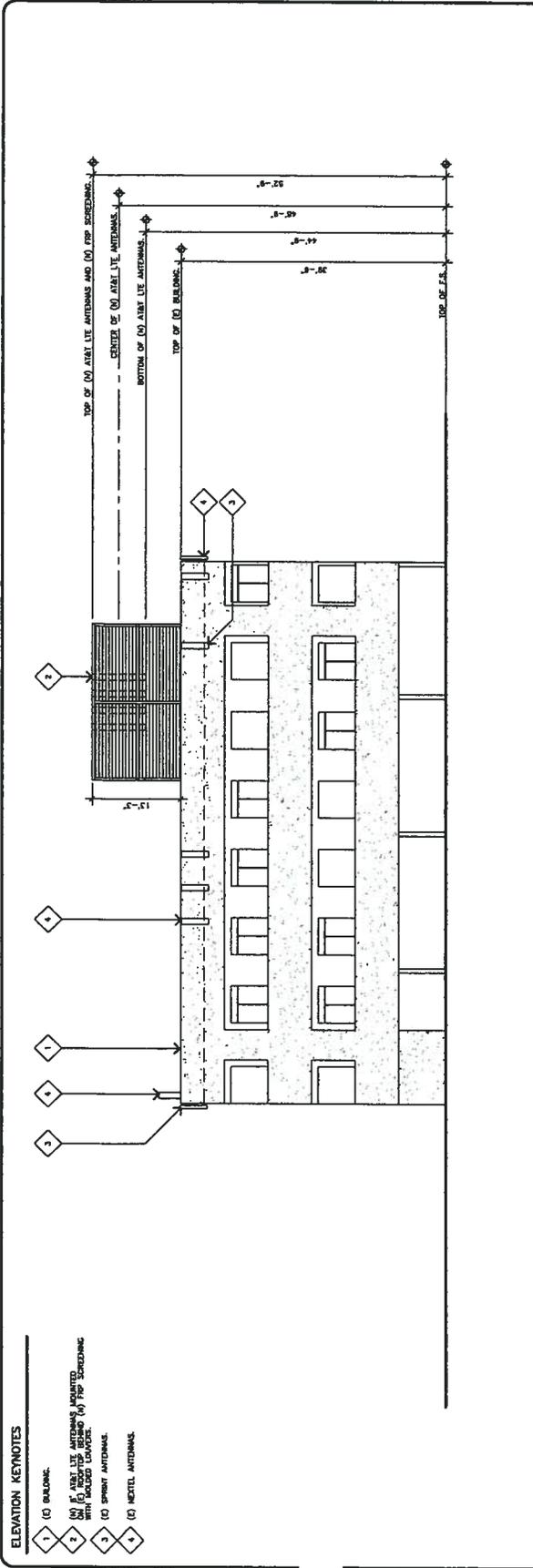
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SHEET TITLE

**ELEVATIONS**

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**JRA**  
Jeffrey R. Adams & Associates, Inc.  
Architectural & Telecommunications  
1 San Francisco  
Plaza, Suite 220  
San Francisco, CA 94104  
Phone: (415) 774-3333  
Fax: (415) 774-3331

PREPARED FOR



8738 PACIFIC CENTER BUILDING  
SAN DIEGO, CALIFORNIA 92121



APPROVALS

\_\_\_\_\_  
DATE: \_\_\_\_\_

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**SITE NAME**  
SANTA FE JUNCTION

**PROJECT NUMBER**  
SD00464 LTE OPTIMAL

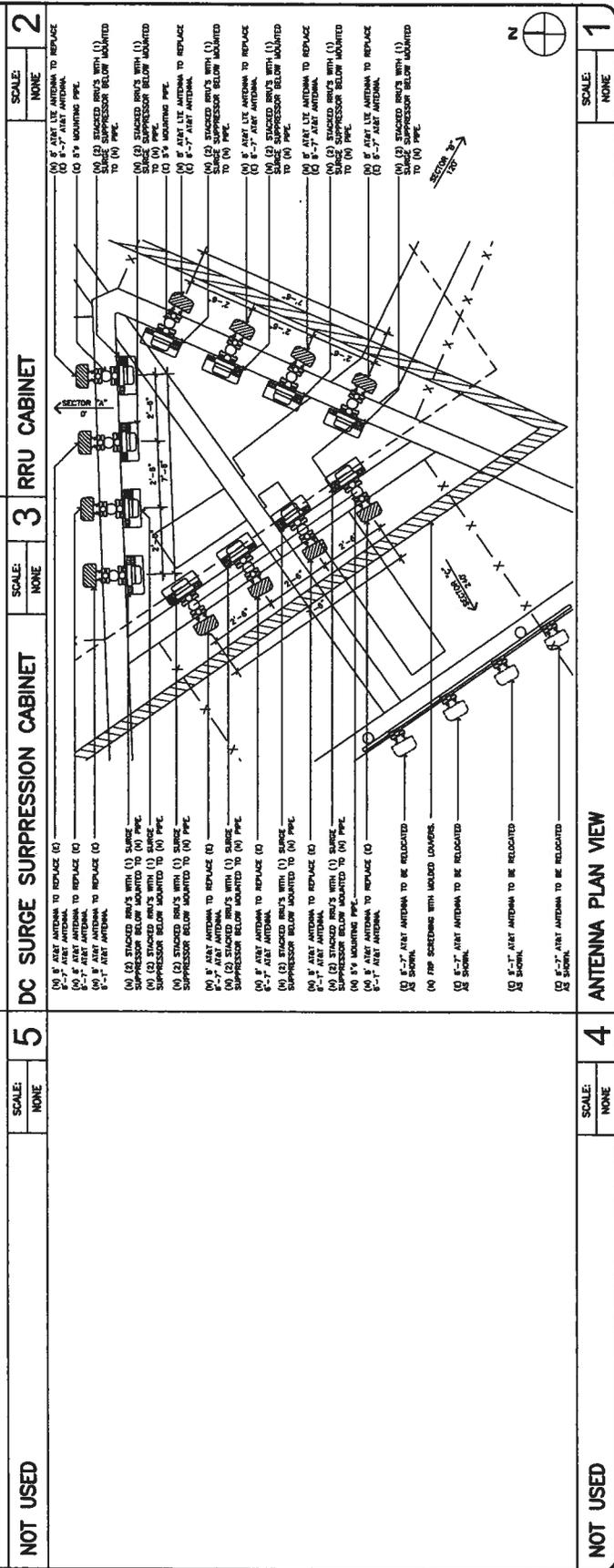
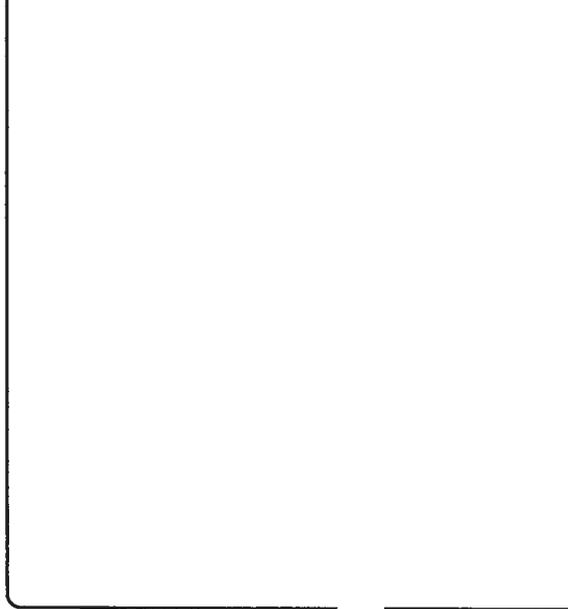
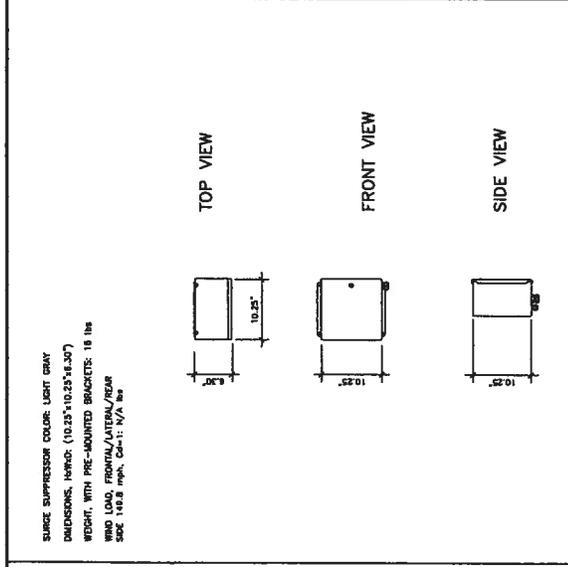
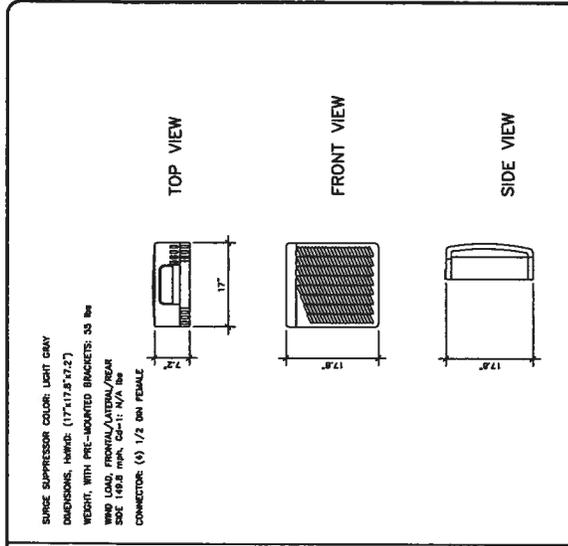
454 SUMMIT STREET  
OCCASION, CALIFORNIA 92584

**DRAWING DATES**

10/21/10	PRELIM 2D'S (P1)
11/24/10	100% FINAL 2D'S (F2)
01/24/11	0% REV. 2D'S (R2)
07/24/11	0% REV. 3 (R3)
08/24/11	CLIENT COMMENTS (C2)
11/29/11	CLIENT COMMENTS (C3)
12/12/11	CLIENT COMMENTS (C4)

**SHEET TITLE**  
ANTENNA DETAILS

A-3



**4 ANTENNA PLAN VIEW**

(1) 8" AFT ANTENNA TO BE RELOCATED AS SHOWN

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(100) 8" AFT ANTENNA TO BE RELOCATED AS SHOWN







PROPRIETARY INFORMATION  
THIS SET OF CONSTRUCTION DOCUMENTS IS THE PROPERTY OF JRA AND IS TO BE USED ONLY FOR THE PROJECT AND PHASES SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF JRA.



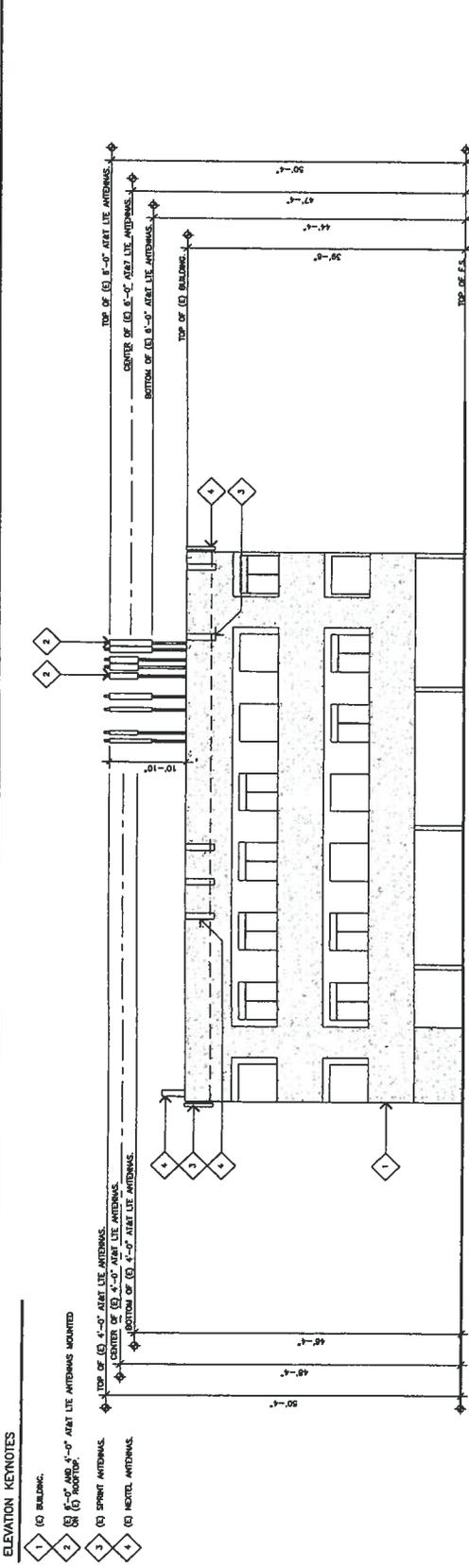
APPROVALS  
R.F.  
ZONING  
CONSTRUCTION  
SITE ACQUISITION  
OWNER APPROVAL

SITE NAME  
SANTA FE JUNCTION  
PROJECT NUMBER  
SD0464 LITE OPTIMAL  
1000 SHAW STREET  
OCEANSIDE, CALIFORNIA 92054

DRAWING DATES  
10/25/10  
11/24/10  
04/11/11  
07/29/11  
11/18/11  
12/02/11  
12/29/11  
ISSUED FOR PERMITS (P1)  
ISSUED FOR PERMITS (P2)  
CLIENT COMMENTS (P3)  
CC REV. 2 (P4)  
ISSUED FOR PERMITS (P5)  
CLIENT COMMENTS (P6)  
CLIENT COMMENTS (P7)  
PLANNING COMMENTS (P8)

SHEET TITLE  
ELEVATIONS

A-2



EXISTING WEST ELEVATION

ELEVATION KEYNOTES  
1 (G) BUILDING  
2 (G) 8'-0" AND 4'-0" AIRT LIE ANTENNAS MOUNTED ON ROOFTOP  
3 (G) SPRINT ANTENNAS  
4 (G) NEXTEL ANTENNAS

SCALE: 1/16"=1'-0"  
0 4' 8' 16'

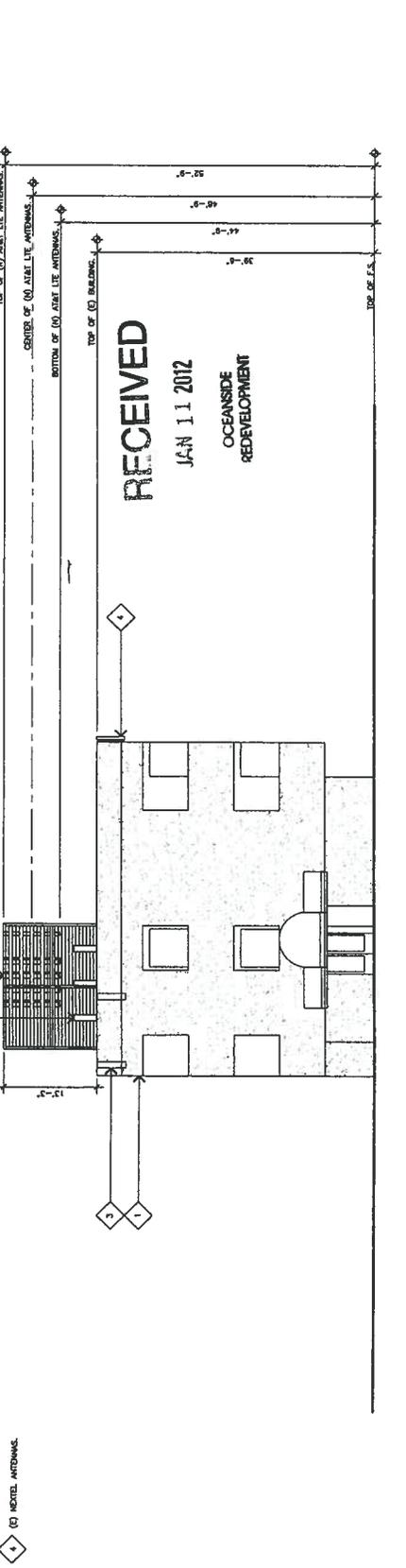
TOP OF (G) BUILDING  
TOP OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) 4'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 4'-0" AIRT LIE ANTENNAS  
CENTER OF (G) 8'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) BUILDING  
TOP OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) 4'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 4'-0" AIRT LIE ANTENNAS  
CENTER OF (G) 8'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 8'-0" AIRT LIE ANTENNAS

ELEVATION KEYNOTES  
1 (G) BUILDING  
2 (G) 8' AIRT LIE ANTENNAS MOUNTED ON ROOFSCREENING  
3 (G) SPRINT ANTENNAS  
4 (G) NEXTEL ANTENNAS

SCALE: 1/16"=1'-0"  
0 4' 8' 16'

TOP OF (G) BUILDING  
TOP OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) 4'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 4'-0" AIRT LIE ANTENNAS  
CENTER OF (G) 8'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 8'-0" AIRT LIE ANTENNAS

PROPOSED NORTH ELEVATION



ELEVATION KEYNOTES  
1 (G) BUILDING  
2 (G) 8' AIRT LIE ANTENNAS MOUNTED ON ROOFSCREENING  
3 (G) SPRINT ANTENNAS  
4 (G) NEXTEL ANTENNAS

SCALE: 1/16"=1'-0"  
0 4' 8' 16'

TOP OF (G) BUILDING  
TOP OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) 4'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 4'-0" AIRT LIE ANTENNAS  
CENTER OF (G) 8'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 8'-0" AIRT LIE ANTENNAS

RECEIVED  
JAN 11 2012  
OCEANSIDE  
REDEVELOPMENT

SCALE: 1/16"=1'-0"  
0 4' 8' 16'

TOP OF (G) BUILDING  
TOP OF (G) 8'-0" AIRT LIE ANTENNAS  
TOP OF (G) 4'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 4'-0" AIRT LIE ANTENNAS  
CENTER OF (G) 8'-0" AIRT LIE ANTENNAS  
BOTTOM OF (G) 8'-0" AIRT LIE ANTENNAS



**CITY OF OCEANSIDE  
PLANNING DEPARTMENT**

# NOTICE OF EXEMPTION

TO: X RECORDER/COUNTY CLERK  
COUNTY OF SAN DIEGO  
P.O. BOX 1750  
SAN DIEGO, CA 92112-4147

**PROJECT TITLE AND FILE NUMBER:**

CONDITIONAL USE PERMIT (RCUP-11-00001) TO UPGRADE EXISTING  
TELECOMMUNICATION FACILITIES ON AN EXISTING COMMERCIAL OFFICE BUILDING  
LOCATED AT 1155 SPORTSFISHER WAY – AT&T APPLICANT: AT&T

**PROJECT LOCATION - SPECIFIC:**  
1155 Sportsfisher Way

**PROJECT LOCATION - GENERAL:**  
Sportsfisher and Horne Streets

CONDITIONAL USE PERMIT (RCUP-11-00001)

**DESCRIPTION OF NATURE, PURPOSE AND BENEFICIARIES OF PROJECT:**

To upgrade existing telecommunication facilities located at 1155 Sportsfisher Way.

**NAME OF PUBLIC AGENCY APPROVING PROJECT:**

City of Oceanside

**NAME OF PERSON(S) OR AGENCY CARRYING OUT PROJECT:**

Plan Com Inc.  
302 State Place  
Escondido, CA 92029  
(760) 715-3416

Exempt Status per the Guidelines to Implement the California Environmental Quality Act (CEQA)  
(Public Resources Code Section 21000 et. al.):

   **NOT SUBJECT TO CEQA PER THE GENERAL RULE, SECTION 15061(B)(3)**

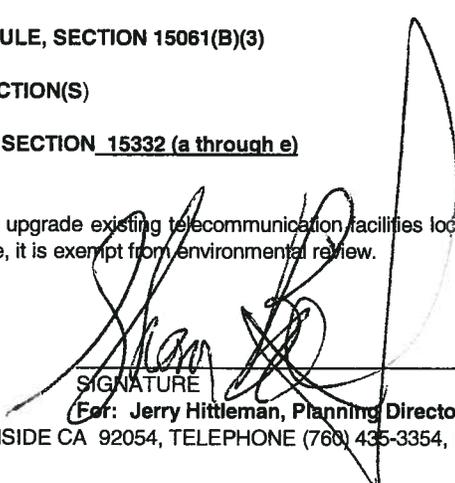
   **STATUTORY EXEMPTION PER ARTICLE 18, SECTION(S)**

  X **CATEGORICAL EXEMPTION PER ARTICLE 19, SECTION 15332 (a through e)**

**REASONS WHY PROJECT IS EXEMPT:**

The proposed project is a Conditional Use Permit to upgrade existing telecommunication facilities located at 1155 Sportsfisher Way.  
The proposed use is located in an infill area, therefore, it is exempt from environmental review.

Contact Person: Shan Babick, Associate Planner

  
SIGNATURE

January 17, 2012

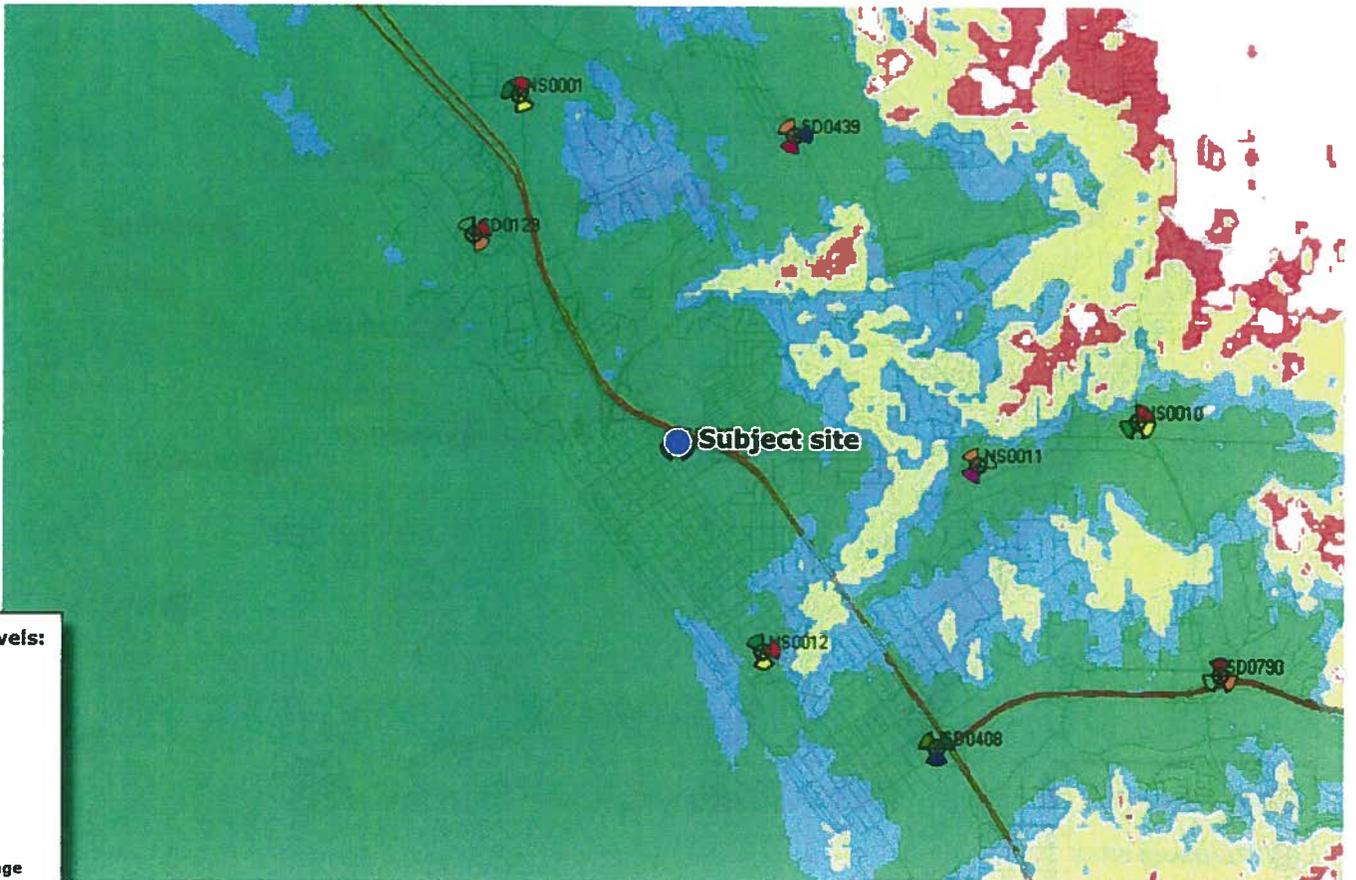
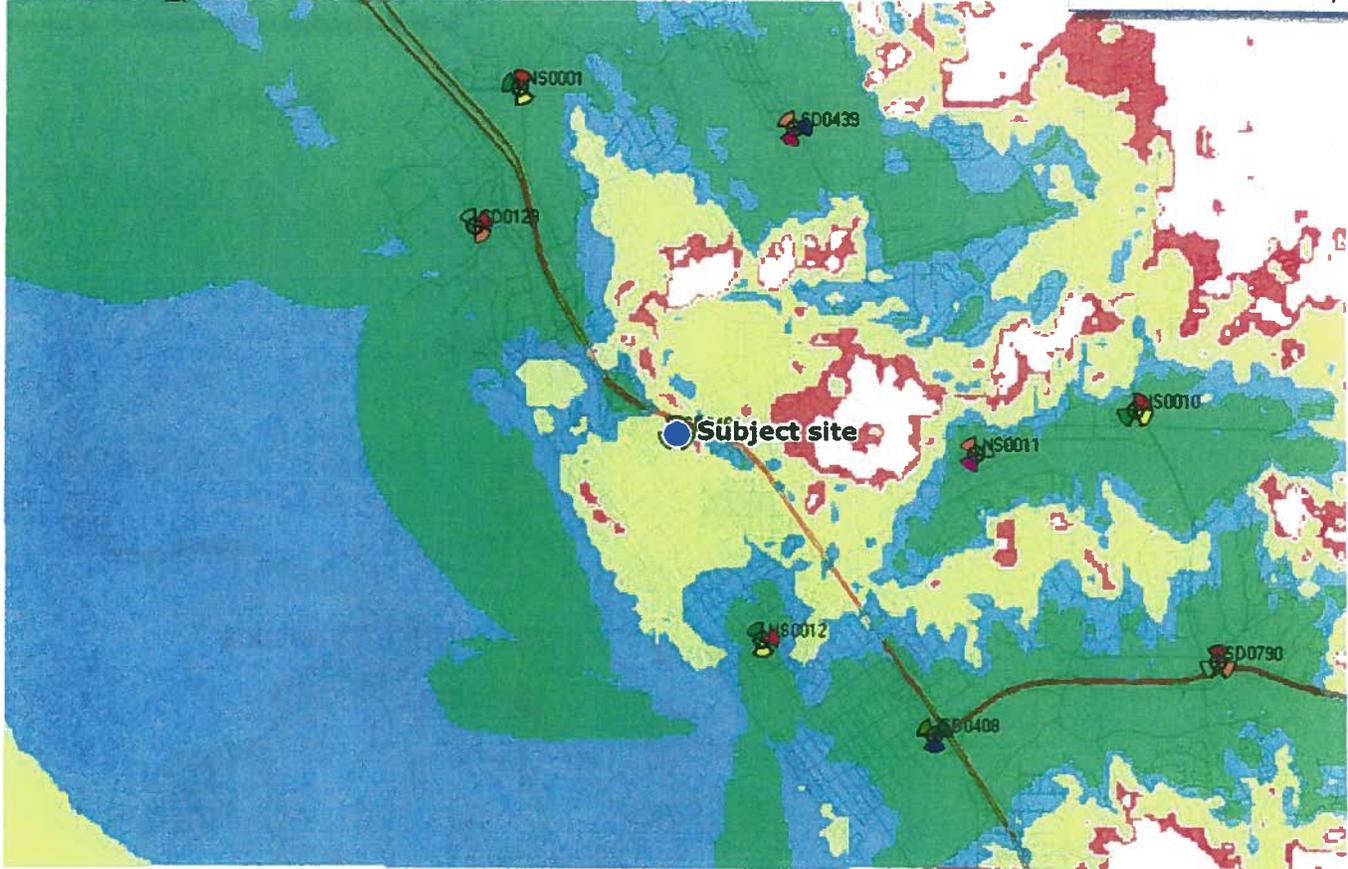
DATE

(For: Jerry Hittleman, Planning Director



# Coverage without site

 **SD0464**  
**Santa Fe Junction**  
**LTE Overlay**  
464 Summit Street  
Oceanside, CA 92054



**Coverage Levels:**

-  Excellent
-  Variable
-  Poor
-  No Coverage

# Coverage with site

# Oceanside Network Map

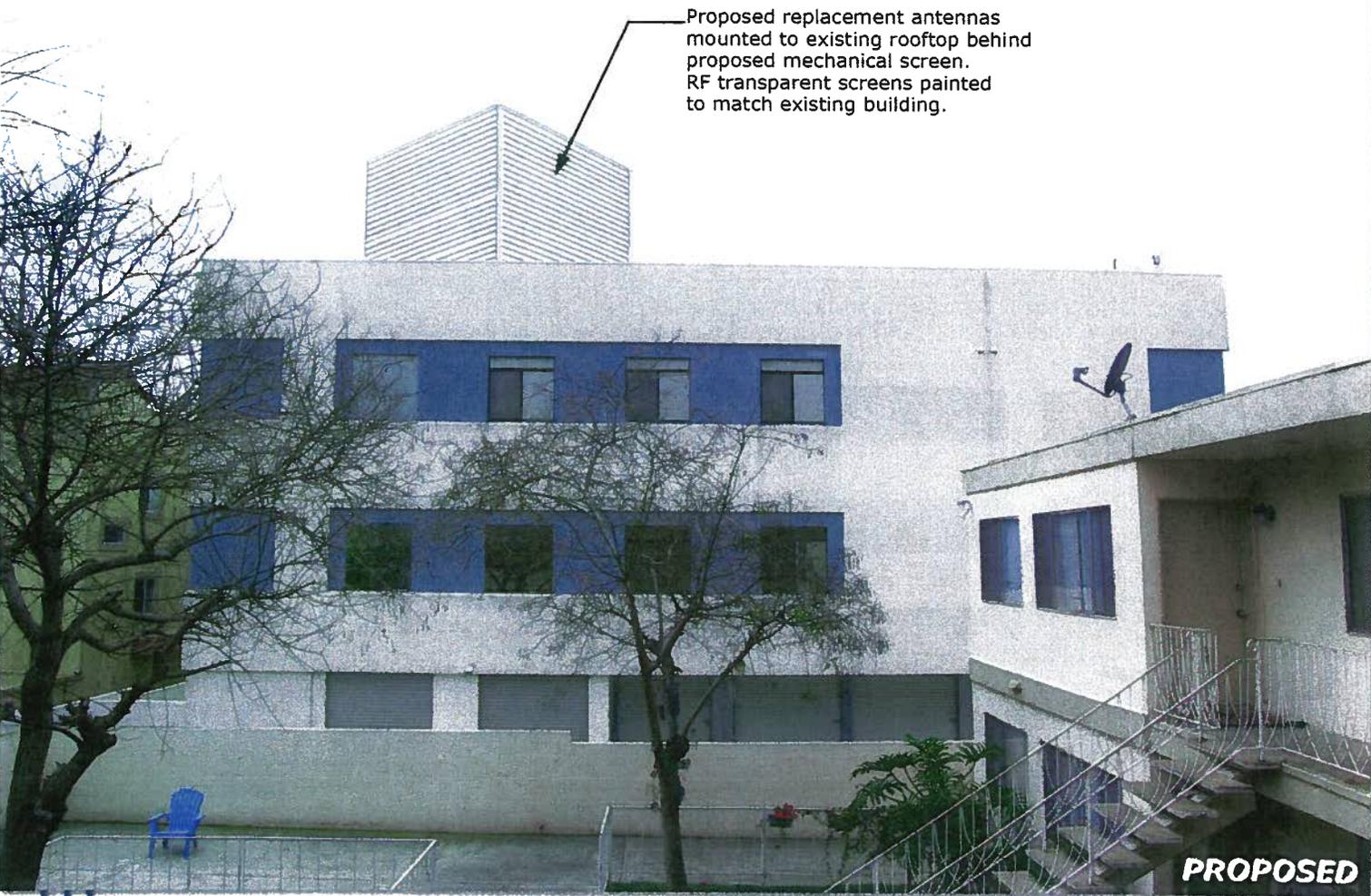
2010



	Existing Sites
	Proposed Sites

III  
EXISTING

**SD0464**  
**Santa Fe Junction**  
**LTE Overlay**  
464 Summit Street  
Oceanside, CA 92054



Proposed replacement antennas  
mounted to existing rooftop behind  
proposed mechanical screen.  
RF transparent screens painted  
to match existing building.

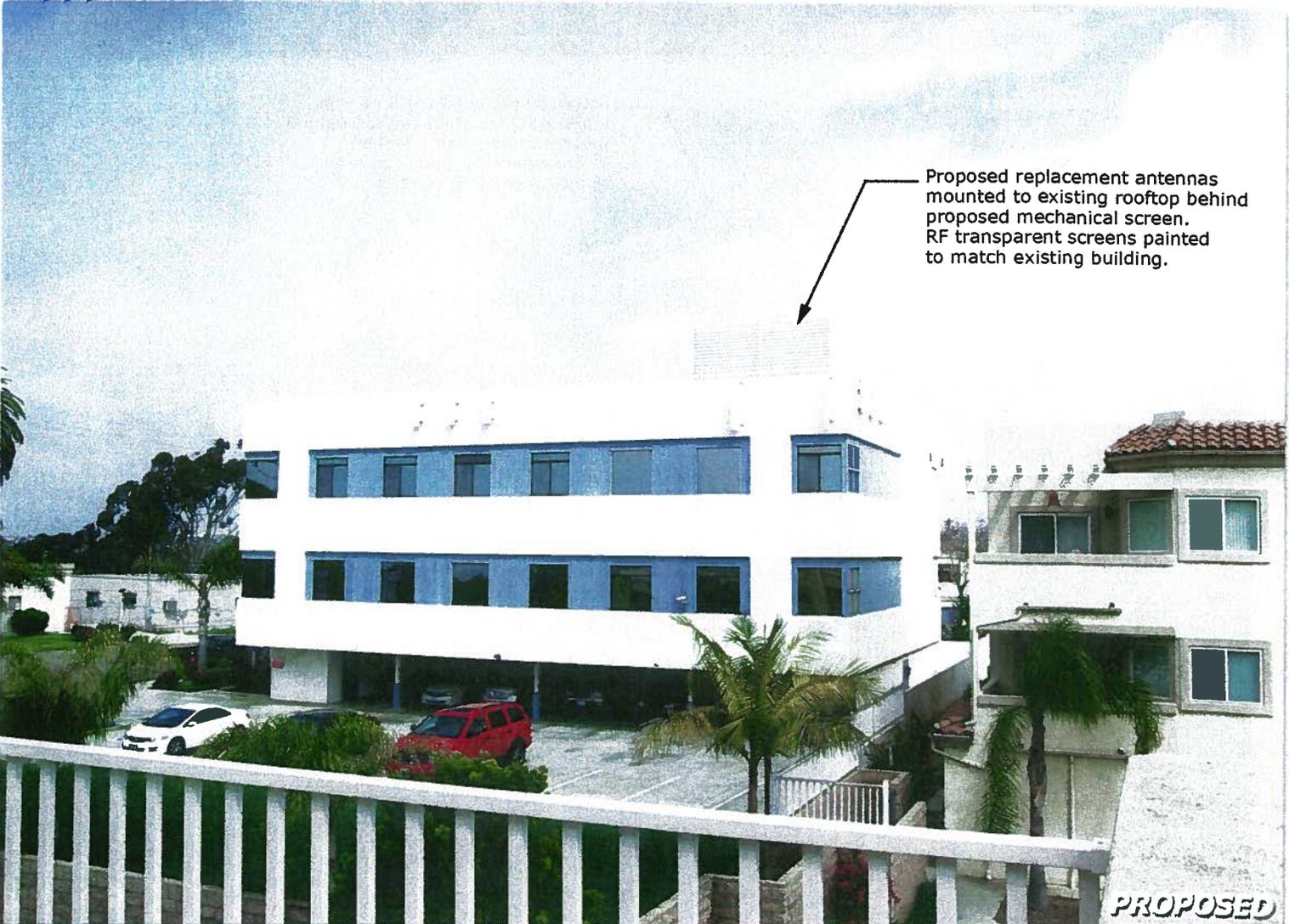
**PROPOSED**

**Photosimulation of proposed telecommunications site: East elevation**

**EXISTING**



**SD0464**  
**Santa Fe Junction**  
**LTE Overlay**  
464 Summit Street  
Oceanside, CA 92054



Proposed replacement antennas mounted to existing rooftop behind proposed mechanical screen. RF transparent screens painted to match existing building.

**PROPOSED**

111  
EXISTING

**SD0464**  
**Santa Fe Junction**  
**LTE Overlay**  
464 Summit Street  
Oceanside, CA 92054



**PROPOSED**

**Photosimulation of proposed telecommunications site: Northwest elevation**



**JERROLD T. BUSHBERG Ph.D., DABMP, DABSNM**  
**◆ HEALTH AND MEDICAL PHYSICS CONSULTING ◆**

7784 Oak Bay Circle Sacramento, CA 95831  
(800) 760-8414-jbushberg@hampc.com

Darrell W. Daugherty  
PLANcom Inc.  
302 State Place  
Escondido, California 92029-1362

September 6, 2011

RECEIVED

SEP 07 2011

OCEANSIDE  
REDEVELOPMENT  
Introduction

At your request, I have reviewed the technical specifications and calculated the maximum radiofrequency, (RF), power density from the proposed AT&T wireless telecommunications site, (referenced as SD0464: Santa Fe Junction), to be located at 464 Summit Street, Oceanside, CA as depicted in attachment one. This proposed AT&T telecommunication site will utilize directional transmit panel antennae configured in three (3) sectors. The antennae for all sectors are planned to be mounted on the roof of the subject building with their center at least 46.75 feet above grade level (AGL) directed at 0 (sector A) and 120 (sector B) and 240 degrees true north. The antennas specified are Kathrien model #800-10766K for all sectors. Technical specifications of these antennae are provided in attachment two. The sectorized antennas are designed to transmit with an effective radiated power (ERP) of up to 2,300 watts per sector within a bandwidth between approximately 704 and 894 MHz (utilizing LTE, UTMS and GSM technology collectively referred to in this report as cellular frequencies) and with an ERP of up to 1,500 watts per sector within a bandwidth between approximately 1,945 and 1,980 MHz (utilizing UTMS and GSM technology collectively referred to in this report as PCS frequencies). Specific transmit frequency ranges and ERPs for each technology can be found on page T-1 of attachment one.

There are two other wireless carrier (Sprint and Nextel now operating combined services as Sprint) are located on the same property as the AT&T facilities. The other carrier's site design specifications are also depicted in attachment 1. The maximum cumulative RF exposure from all three carriers is provided in this report.

**Calculation Methodology, Results & Recommendations**

Calculations at roof level were made in accordance with the cylindrical model recommendations contained in the Federal Communications Commission, Office of Engineering and Technology Bulletin 65 (OET 65) entitled "Evaluating Compliance with FCC-Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." RF exposure calculations at 16 feet AGL were made using equation 10 from the same OET document. Several assumptions were made in order to provide the most conservative or "worse case" projections of power densities. Calculations were made assuming that all channels were operating simultaneously at their maximum design effective radiated power. Attenuation (weakening) of the signal that would result from surrounding foliage or buildings was ignored. Buildings or other structures can reduce the signal strength by a factor of 10 (i.e., 10 dB) or more depending upon the construction material. In addition, for calculations at 16 feet AGL, the ground or other surfaces were considered to be perfect reflectors (which they are not) and the RF energy was assumed to overlap and interact constructively at all locations (which they would not) thereby resulting in the calculation of the maximum potential exposure. In fact, the accumulations

of all these very conservative assumptions, will significantly overestimate the actual exposures that would typically be expected from such a facility. However, this method is a prudent approach that errs on the side of safety.

The maximum RF exposure to the general public from this AT&T facility at 16 feet or less AGL was calculated to be less than 1.7 % of the FCC maximum permissible exposure (MPE) standard for public safety. Exposure details are shown in appendix A. Details regarding the Sprint and Nextel facilities were incomplete but a conservative estimate of there RF exposure can be made from the site plans provided and my extensive experience analyzing similar RF site designs for these carriers. The maximum contribution to potential public exposure of the AT&T facilities from the Sprint and Nextel facilities will be less than 3.0% of the public safety standard. Thus the maximum cumulative exposure from both carriers will be less than 4.7% of the public safety standard.

An analysis of potential RF exposures to anyone standing on the roof of the building close to the antennae was also performed in order to determine if there were any concerns that exposure could exceed either the occupational or public MPE. The Sprint and Nextel antennae are mounted on the exterior facade of the building or at the roof edge and as such, will not contribute in any significant way to roof top exposures. The maximum potential RF exposure on the roof from the proposed AT&T antennae would be less than 495% of the FCC public maximum permissible exposure standard (MPE) which is approximately 99% of the occupational MPE. Thus public exclusion zones and signage as shown in appendix B are required. A sign conforming to with ANSI C95.2 color, symbol and content, and other markings as appropriate, should be placed close to the antennas with appropriate contact information in order to alert maintenance or other workers approaching the antenna to the presence of RF transmissions and to take precautions to avoid exposures in excess of FCC limits.

### **RF Safety Standards**

The two most widely recognized standards for protection against RF field exposure are those published by the American National Standards Institute (ANSI) C95.1 and the National Council on Radiation Protection and measurement (NCRP) report #86. The NCRP is a private, congressionally chartered institution with the charge to provide expert analysis of a variety of issues (especially health and safety recommendations) on radiations of all forms. The scientific analyses of the NCRP are held in high esteem in the scientific and regulatory community both nationally and internationally. In fact, the vast majority of the radiological health regulations currently in existence can trace their origin, in some way, to the recommendations of the NCRP.

All RF exposure standards are frequency-specific, in recognition of the differential absorption of RF energy as a function of frequency. The most restrictive exposure levels in the standards are associated with those frequencies that are most readily absorbed in humans. Maximum absorption occurs at approximately 80 MHz in adults. The NCRP maximum allowable continuous occupational exposure at this frequency is 1,000  $\mu\text{W}/\text{cm}^2$ . This compares to 5,000  $\mu\text{W}/\text{cm}^2$  at the most restrictive of the PCS frequencies (~1,800 MHz) that are absorbed much less efficiently than exposures in the VHF TV band.

The traditional NCRP philosophy of providing a higher standard of protection for members of the general population compared to occupationally exposed individuals, prompted a two-tiered safety standard by which levels of allowable exposure were substantially reduced for "uncontrolled " (e.g., public) and continuous exposures. This measure was taken to account for the fact that workers in an industrial environment are typically exposed no more than eight hours a day while members of the general population in proximity to a source of RF radiation may be exposed continuously. This additional protection factor also provides a greater margin of safety for children, the infirmed, aged, or others who might be more sensitive to RF exposure. After

several years of evaluating the national and international scientific and biomedical literature, the members of the NCRP scientific committee selected 931 publications in the peer-reviewed scientific literature on which to base their recommendations. The current NCRP recommendations limit continuous public exposure at PCS frequencies to 1,000  $\mu\text{W}/\text{cm}^2$ .

The 1992 ANSI standard was developed by Scientific Coordinating Committee 28 (SCC 28) under the auspices of the Institute of Electrical and Electronic Engineers (IEEE). This standard, entitled "IEEE Standards for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz" (IEEE C95.1-1991), was issued in April 1992 and subsequently adopted by ANSI. A revision of this standard (C95.1-2005) was completed in October 2005 by SCC 39 the IEEE International Committee on Electromagnetic Safety. Their recommendations are similar to the NCRP recommendation for the maximum permissible exposure (MPE) to the public for PCS frequencies (950  $\mu\text{W}/\text{cm}^2$  for continuous exposure at 1,900 MHz) and incorporates the convention of providing for a greater margin of safety for public as compared with occupational exposure. Higher whole body exposures are allowed for brief periods provided that no 30 minute time-weighted average exposure exceeds these aforementioned limits.

On August 9, 1996, the Federal Communications Commission (FCC) established a RF exposure standard that is a hybrid of the current ANSI and NCRP standards. The maximum permissible exposure values used to assess environmental exposures are those of the NCRP (i.e., maximum public continuous exposure at PCS frequencies of 1,000  $\mu\text{W}/\text{cm}^2$ ). The FCC issued these standards in order to address its responsibilities under the National Environmental Policy Act (NEPA) to consider whether its actions will "significantly affect the quality of the human environment." In as far as there was no other standard issued by a federal agency such as the Environmental Protection Agency (EPA), the FCC utilized their rulemaking procedure to consider which standards should be adopted. The FCC received thousands of pages of comments over a three-year review period from a variety of sources including the public, academia, federal health and safety agencies (e.g., EPA & FDA) and the telecommunications industry. The FCC gave special consideration to the recommendations by the federal health agencies because of their special responsibility for protecting the public health and safety. In fact, the maximum permissible exposure (MPE) values in the FCC standard are those recommended by EPA and FDA. The FCC standard incorporates various elements of the 1992 ANSI and NCRP standards which were chosen because they are widely accepted and technically supportable. There are a variety of other exposure guidelines and standards set by other national and international organizations and governments, most of which are similar to the current ANSI/IEEE or NCRP standard, figure one.

The FCC standards "Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation" (Report and Order FCC 96-326) adopted the ANSI/IEEE definitions for controlled and uncontrolled environments. In order to use the higher exposure levels associated with a controlled environment, RF exposures must be occupationally related (e.g., wireless company RF technicians) and they must be aware of and have sufficient knowledge to control their exposure. All other environmental areas are considered uncontrolled (e.g., public) for which the stricter (i.e., lower) environmental exposure limits apply. All carriers were required to be in compliance with the new FCC RF exposure standards for new telecommunications facilities by October 15, 1997. These standards applied retroactively for existing telecommunications facilities on September 1, 2000.

The task for the physical, biological, and medical scientists that evaluate health implications of the RF data base has been to identify those RF field conditions that can produce harmful biological effects. No panel of experts can guarantee safe levels of exposure because safety is a null concept, and negatives are not susceptible to proof. What a dispassionate scientific assessment can offer is the presumption of safety when RF-field conditions do not give rise to a demonstrable harmful effect.

## Summary & Conclusions

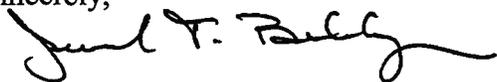
This AT&T wireless facility operating with the characteristics as specified above and observing the public exclusion zones as depicted in appendix B, will be in full compliance with FCC RF public and occupational safety exposure standards. These transmitters, by design and operation, are low-power devices. Even under maximal exposure conditions in which all the channels are operating at full power, the maximum exposure to an individual standing on the roof beyond an area 8 feet in front of and 10 feet wide centered on any of the three antennae arrays will not result in RF exposures in excess of the FCC occupational or public RF safety standard. A caution sign, as depicted in appendix B, containing appropriate contact information and indicating the stay back distance beyond which the RF exposures do not exceed the public MPE, should be placed near the antennae in each sector. The sign size and placement should permit one to clearly read the information without entering the exclusion zone.

The maximum public RF exposure at 16 feet or less above ground level will not be in excess of 4.7% of the FCC public safety standard. This maximum exposure is more than 21 times lower than the FCC public exposure standards for these frequencies. A chart of the electromagnetic spectrum and a comparison of RF power densities from various common sources is presented in figures two and three respectively in order to place exposures from wireless telecommunications systems into perspective. It is important to realize that the FCC maximum allowable exposures are not set at a threshold between safety and known hazard but rather at 50 times below a level that the majority of the scientific community believes may pose a health risk to human populations. Thus the previously mentioned maximum public exposure at 16 feet or less above ground level from the site represents a "safety margin" from this threshold of potentially adverse health effects of more than 1,000 times.

Given the low levels of radiofrequency fields that would be generated from this facility beyond the public exclusion zones in front of the antennae array in each sector, and given the evidence on biological effects in a large data base, there is no scientific basis to conclude that harmful effects will attend the utilization of the proposed AT&T wireless telecommunications facility. This conclusion is supported by a large numbers of scientists that have participated in standard-setting activities in the United States who are overwhelmingly agreed that RF radiation exposure below the FCC exposure limits has no demonstrably harmful effects on humans.

These findings are based on my professional evaluation of the scientific issues related to the health and safety of non-ionizing electromagnetic radiation and my analysis of the technical specification as provided by AT&T. The opinions expressed herein are based on my professional judgement and are not intended to necessarily represent the views of any other organization or institution. Please contact me if you require any additional information.

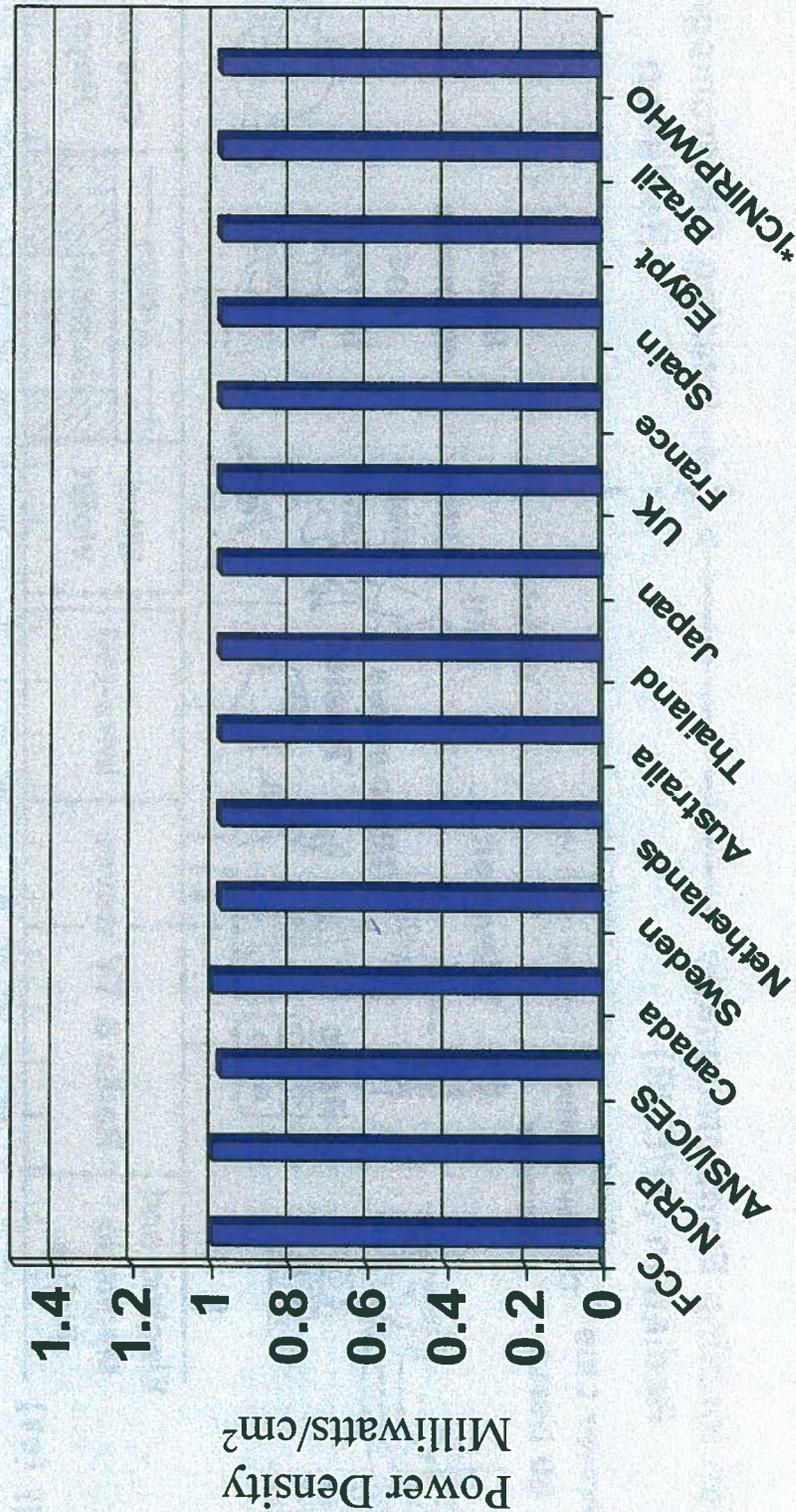
Sincerely,



Jerrold T. Bushberg Ph.D., DABMP, DABSNM  
Diplomate, American Board of Medical Physics (DABMP)  
Diplomate, American Board of Science in Nuclear Medicine (DABSNM)

Enclosures: Figures 1-3; Attachments 1, 2; Appendices A and B, and Statement of Experience.

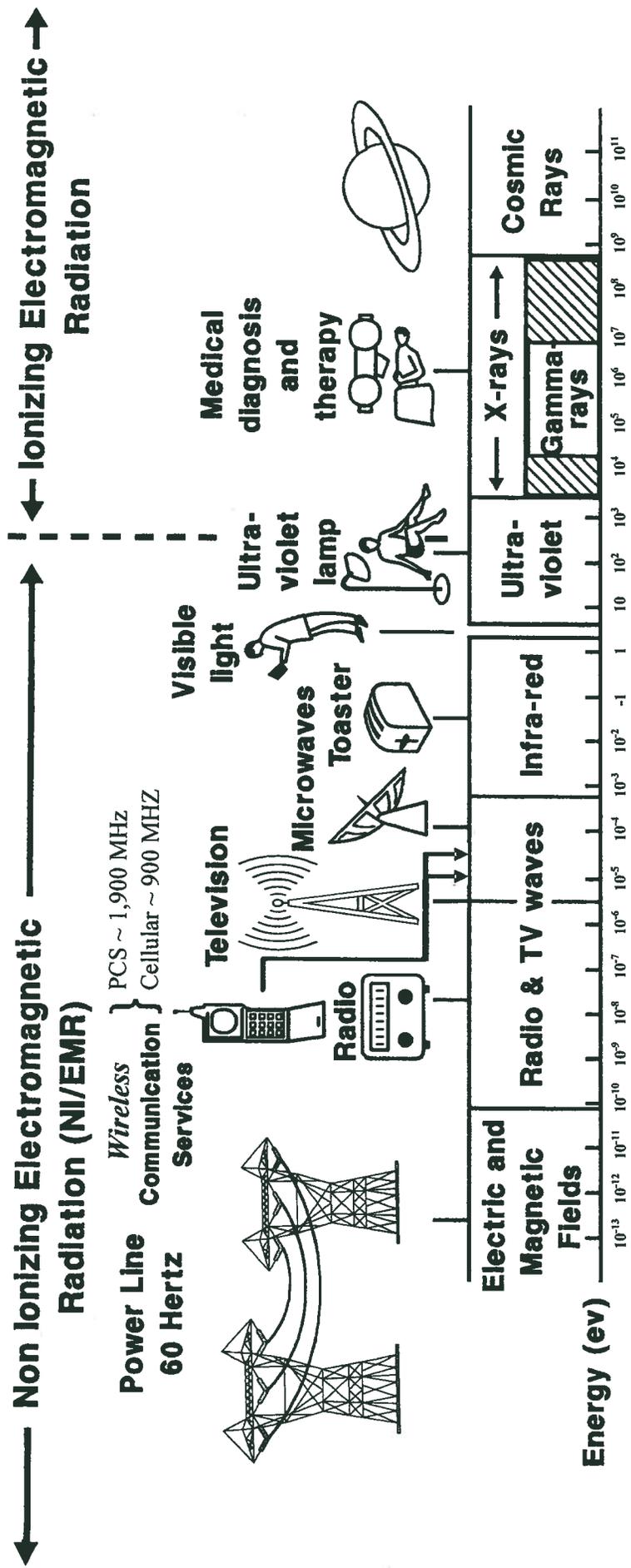
# National and International Public RF Exposure Standards (PCS @ 1,950 MHz)



\*International Commission on Non-Ionizing Radiation Protection (ICNIRP) Public Safety Exposure Standard. ICNIRP standard recommended by the World Health Organization (WHO). Members of the ICNIRP Scientific Committee were from:

- Australia    • Finland    • Sweden
- Italy        • France    • Japan
- Germany    • United Kingdom
- Hungary    • United States

Figure 1



The Electromagnetic Spectrum

Figure 2

# Typical Exposure from Various Radio Frequency / Microwave Sources

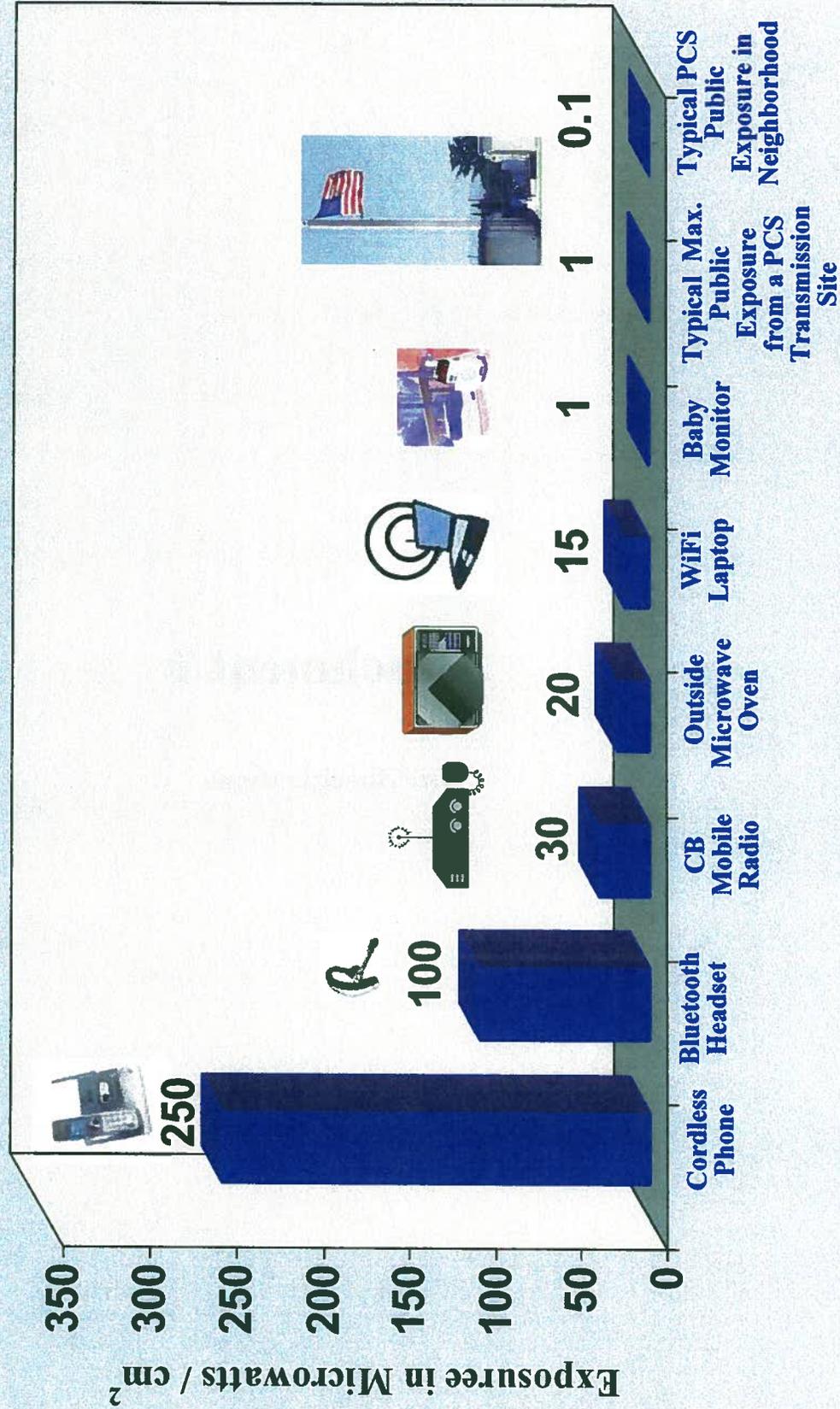


Figure 3

# **Attachment 1**

## **Site Specifications**

Kathrein's X-polarized antennas are designed for use in digital polarization diversity systems.

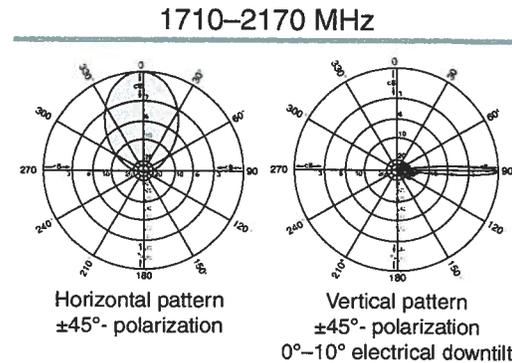
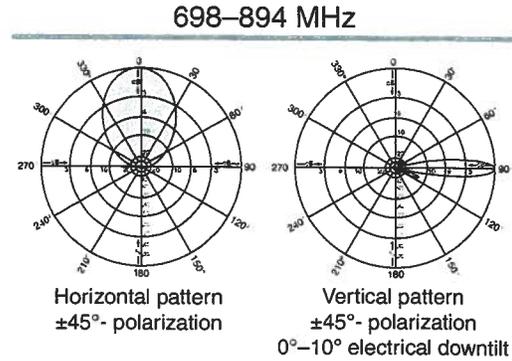
- X-polarized (+45° and -45°).
- UV resistant fiberglass radomes.
- Wideband vector dipole technology.
- DC Grounded metallic parts for impulse suppression.
- RET motor housed inside the radome and field replaceable.

#### General specifications:

Frequency range	698–894 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 (long neck)
Isolation	intrasystem >30 dB // intersystem >40 dB
<i>See reverse for order information.</i>	

#### IRT specifications:

Logical interface ex factory <sup>1)</sup>	AISG 1.1
Protocols	AISG 1.1 and 3GPP/AISG 2.0 compliant
Hardware interface <sup>2)</sup>	2 x 8pin connector acc. IEC 60130-9; according to AISG: – IRTin (male): Control / Daisy chain in – IRTout (female): Daisy chain out
Power supply	10–30 V
Power Consumption	<1 W (standby); <8.5 W (motor activated)
Adjustment time (full range)	40 seconds
Adjustment cycles	>50,000
Certification	FCC 15.107 Class B Computing Devices



<sup>1)</sup> The protocol of the logical interface can be switched from AISG 1.1 to 3GPP/AISG 2.0 and vice versa with a vendor specific command.

**Please note:** If the Primary of the RETsystem doesn't support the standard of the 'logical interface ex factory', the RCU must be switched to the appropriate standard of the Primary before installation. Please contact Kathrein for further information.

<sup>2)</sup> The tightening torque for fixing the connector must be 0.5 – 1.0 Nm ('hand-tightened'). The connector should be tightened by hand only!

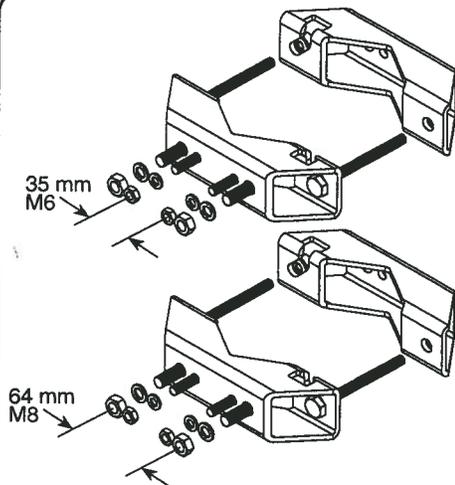
Specifications:	698–806 MHz	824–894 MHz	1710–1755 MHz	1850–1990 MHz	2110–2170 MHz
Gain	16.4 dBi	17 dBi	18 dBi	18.5 dBi	18 dBi
Front-to-back ratio	>30 dB (co-polar) 34 dB (average)	>30 dB (co-polar) 34 dB (average)	>27 dB (co-polar) 34 dB (average)	>27 dB (co-polar) 34 dB (average)	>27 dB (co-polar) 34 dB (average)
Maximum input power per input	500 watts (at 50°C)	500 watts (at 50°C)	300 watts (at 50°C)	300 watts (at 50°C)	300 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	68° (half-power)	65° (half-power)	63° (half-power)	62° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	9.5° (half-power)	8.5° (half-power)	5.8° (half-power)	5.8° (half-power)	5.8° (half-power)
Electrical downtilt continuously adjustable	0°–10°	0°–10°	0°–10°	0°–10°	0°–10°
Min sidelobe suppression for first sidelobe above main beam average	0° 5° 10° T 16 16 16 dB 18 20 18 dB	0° 5° 10° T 18 18 16 dB 20 20 20 dB	0° 5° 10° T 18 18 18 dB 20 22 20 dB	0° 5° 10° T 18 18 17 dB 20 22 20 dB	0° 5° 10° T 18 18 18 dB 20 22 20 dB
Cross polar ratio					
Main direction	0°	0°	0°	0°	0°
Sector	±60°	±60°	±60°	±60°	±60°
	25 dB (typical) >10 dB, 15 dB (avg)	20 dB (typical) >10 dB, 12 dB (avg)	25 dB (typical) >8 dB, 15 dB (avg)	30 dB (typical) >10 dB, 15 dB (avg)	25 dB (typical) >8 dB, 15 dB (avg)



11191-FRO/c  
936.A2713/a

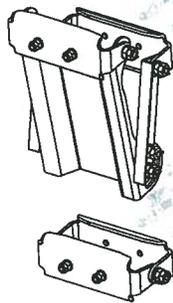
#### Mechanical specifications:

Weight	61.7 lb (28 kg)
Dimensions	96 x 11.8 x 6 inches (2438 x 300 x 152 mm)
Wind load Front/Side/Rear	at 93 mph (150kph) 286 lbf / 61 lbf / 335 lbf (1270 N / 270 N / 1490 N)
Wind survival rating*	150 mph (240 kph)
Shipping dimensions	99.9 x 12.6 x 7.5 inches (2537 x 320 x 190 mm)
Shipping weight	75 lb (34 kg)
Mounting	Mounting hardware included for 2 to 4.6 inch (50 to 115 mm) OD masts.



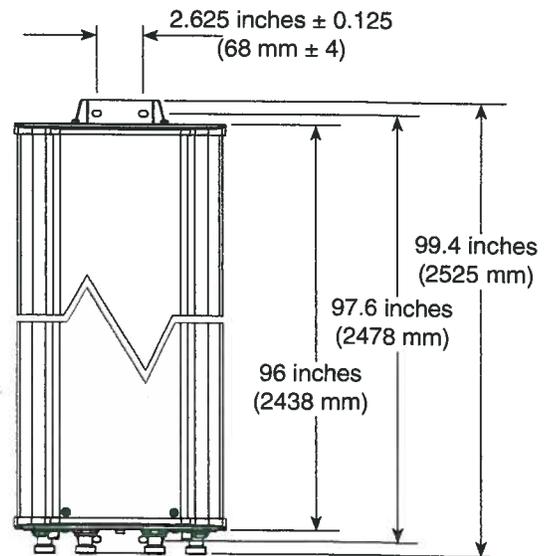
#### Mounting Brackets

for use with 2-point mount antennas  
Mast dia. 2–4.5 inches (50–115 mm)  
Weight: 4 lb (1.8 kg)



#### Mechanical Tilt Brackets

for use with 2-point mount antennas  
Weight: 13 lb (5.9 kg)  
(Model 850 10007)

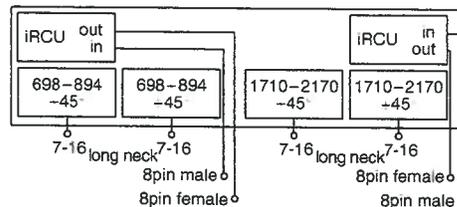
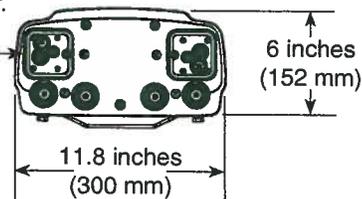


KATHREIN 860 10145

**FC** Tested To Comply With FCC Standards

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Refer to part number 860 10145 for the specifications of the remote control actuator.



#### Order Information:

Model	Description
800 10766	Dualband antenna with mounting bracket 0°–10° // 0°–10° electrical downtilt
800 10766 K	Dualband antenna with mounting bracket and mechanical tilt bracket 0°–10° // 0°–10° electrical downtilt

\* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) 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.

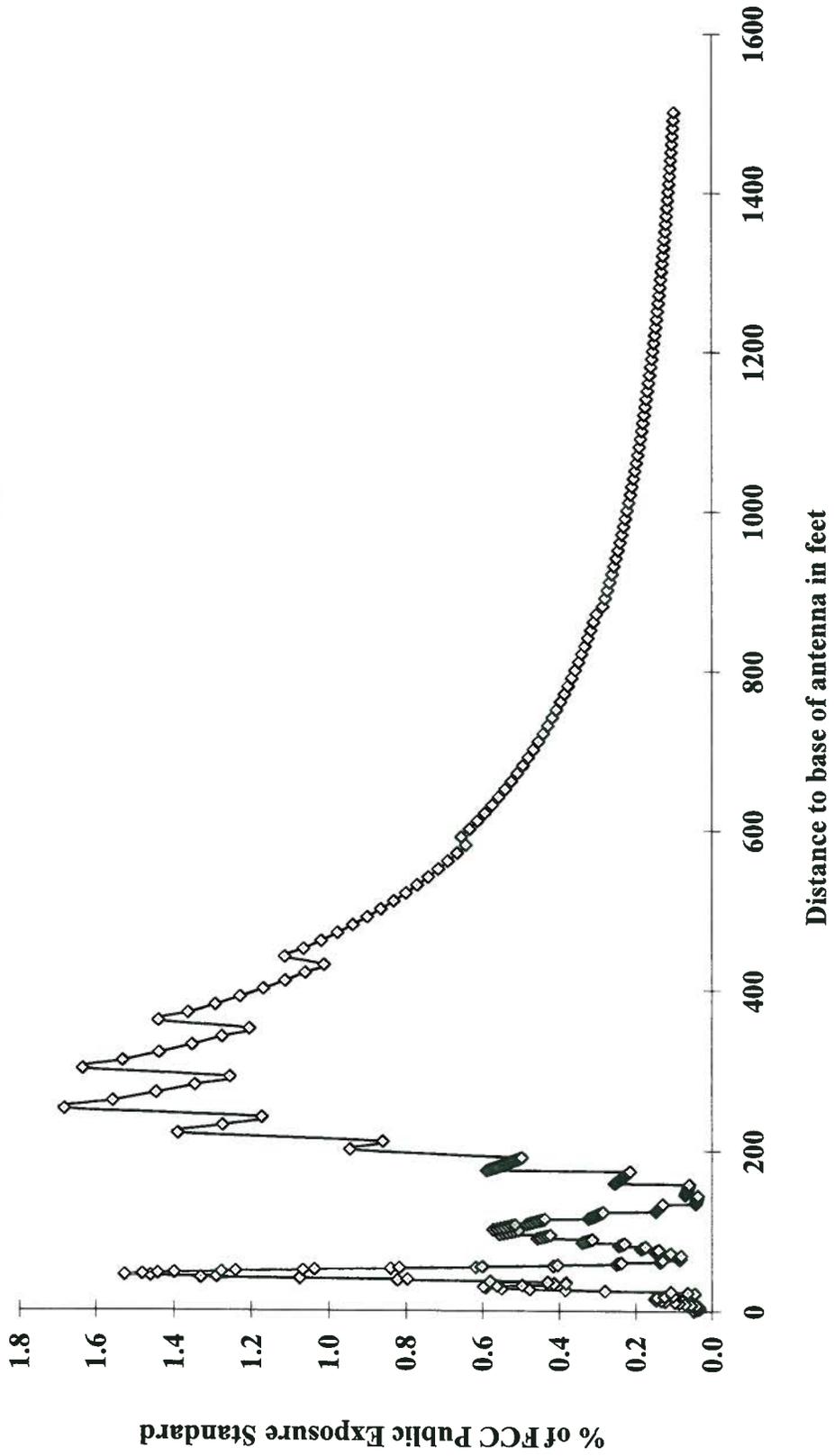
All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).

# **Appendix A**

**Kathrien model # 800-10766K  
Public Exposure Analysis  
Antenna RF Center 46.75 ft AGL**

**RF Exposure at 16 ft AGL**

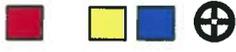
**RF Exposure Levels AGL=16 feet  
Antenna Center 46.75 feet AGL**

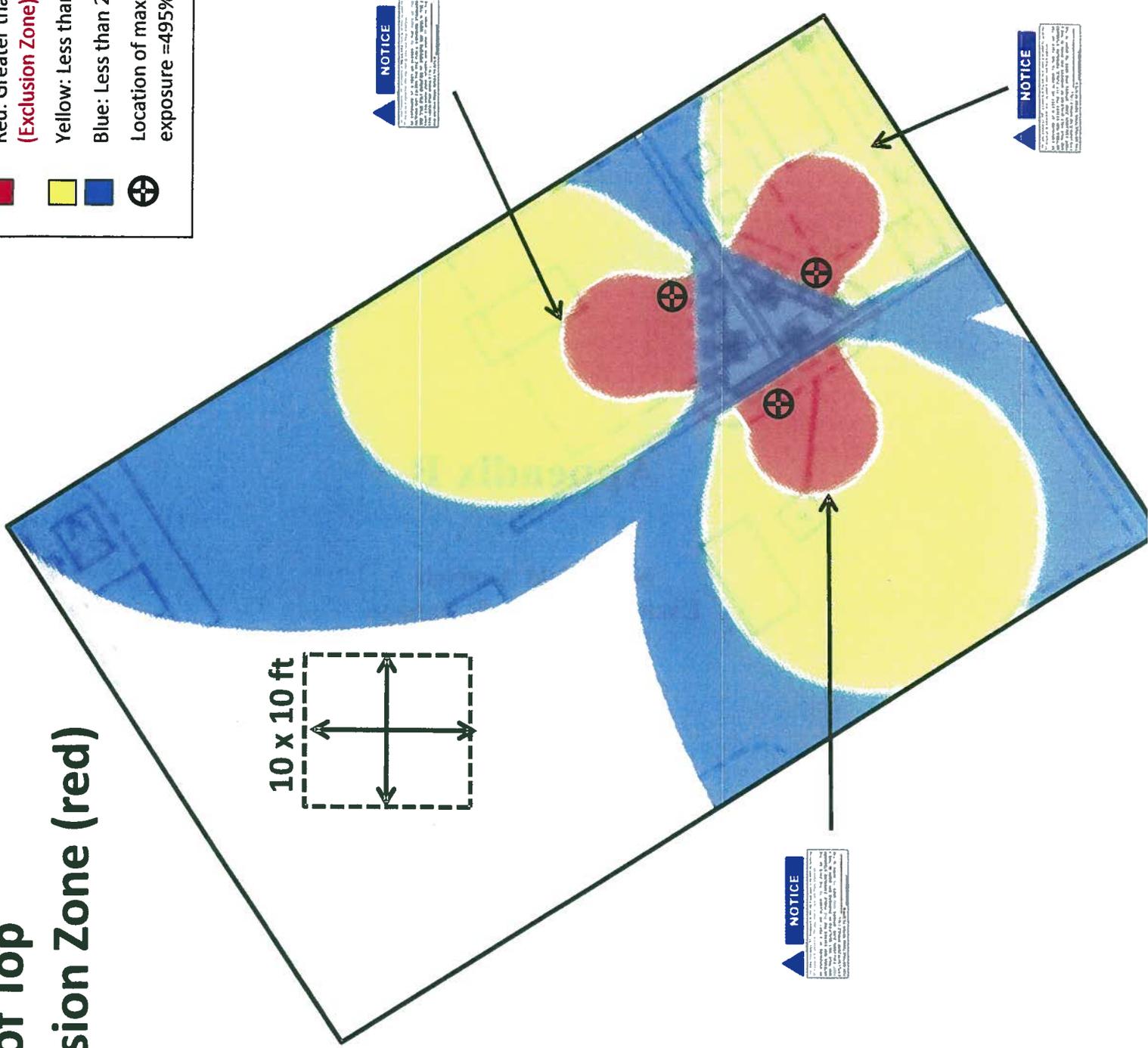


# **Appendix B**

**Near Field Analysis  
Exclusion Zones & Signage**

# Roof Top Public Exclusion Zone (red)

- Red: Greater than 100% Public MPE  
(Exclusion Zone)
  - Yellow: Less than 100% Public MPE
  - Blue: Less than 20% Public MPE
  - Location of maximum exposure ≈95% Public MPE
- 





# NOTICE

The radio frequency (RF) emissions at this site have been evaluated for potential RF exposure to personnel who may need to work near these antennae.

**RF EXPOSURE AT 8 FEET OR CLOSER TO THE FACE OF THE ANTENNA MAY EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS ONLY QUALIFIED RF WORKERS MAY WORK IN THIS 8 FOOT EXCLUSION ZONE. OTHERS WHO NEED TO WORK IN THE EXCLUSION ZONE SHOULD CALL \_\_\_\_\_ FOR INSTRUCTIONS. REFER TO SITE # \_\_\_\_\_**

## **STATEMENT OF EXPERIENCE**

**Jerrold Talmadge Bushberg, Ph.D., DABMP, DABSNM**  
(800) 760-8414    jbushberg@hampc.com

Dr. Jerrold Bushberg has performed health and safety analysis for RF & ELF transmissions systems since 1978 and is an expert in both health physics and medical physics. The scientific discipline of Health Physics is devoted to radiation protection, which, among other things, involves providing analysis of radiation exposure conditions, biological effects research, regulations and standards as well as recommendations regarding the use and safety of ionizing and non-ionizing radiation. In addition, Dr. Bushberg has extensive experience and lectures on several related topics including medical physics, radiation protection, (ionizing and non-ionizing), radiation biology, the science of risk assessment and effective risk communication in the public sector.

Dr. Bushberg's doctoral dissertation at Purdue University was on various aspects of the biological effects of microwave radiation. He has maintained a strong professional involvement in this subject and has served as consultant or appeared as an expert witness on this subject to a wide variety of organizations/institutions including, local governments, school districts, city planning departments, telecommunications companies, the California Public Utilities Commission, national news organizations, and the U.S. Congress. In addition, his consultation services have included detailed computer based modeling of RF exposures as well as on-site safety inspections and RF & ELF environmental field measurements of numerous transmission facilities in order to determine their compliance with FCC and other safety regulations. The consultation services provided by Dr. Bushberg are based on his professional judgement as an independent scientist, however they are not intended to necessarily represent the views of any other organization.

Dr. Bushberg is a member of the main scientific body of International Committee on Electromagnetic Safety (ICES) which reviews and evaluates the scientific literature on the biological effects of non-ionizing electromagnetic radiation and establishes exposure standards. He also serves on the ICES Risk Assessment Working Group that is responsible for evaluating and characterizing the risks of non-ionizing electromagnetic radiation. Dr. Bushberg was appointed and is serving as a member of the main scientific council of the National Council on Radiation Protection and Measurement's (NCRP). He is also a Scientific Vice-President of the NCRP, a member of the NCRP Board of Directors and chairs its committee on Radiation Protection in Medicine. In addition, Dr. Bushberg is a member of NCRP's scientific advisory committee on Non-ionizing Radiation Safety. The NCRP is the nation's preeminent scientific radiation protection organization, chartered by Congress to evaluate and provide expert consultation on a wide variety of radiological health issues. The current FCC RF exposure safety standards are based in large part on the recommendations of the NCRP. Dr. Bushberg was elected to the International Engineering in Medicine and Biology Society Committee on Man and Radiation (COMAR) which has as its primary area of responsibility the examination and interpreting the biological effects of non-ionizing electromagnetic energy and presenting its findings in an authoritative and professional manner. Dr. Bushberg is also a member of a six person U.S. expert delegation to the international scientific community on Scientific and Technical Issues for Mobile Communication Systems established by the Federal Communications Commission.

Dr. Bushberg is a full member of the Bioelectromagnetics Society, the Health Physics Society and the Radiation Research Society. Dr. Bushberg received both a Masters of Science and Ph.D. from the Department of Bionucleonics at Purdue University. Dr. Bushberg is certified by several national professional boards with specific sub-specialty certification in radiation protection and medical physics. Prior to coming to California, Dr. Bushberg was on the faculty of Yale University School of Medicine.