



**June 28, 2010**

**SUBJECT:** **Clearwire/Crown Castle** [Applicant] **Michael Loskutoff Trustee** [Owner]: Application for a 0.65-acre site located at **1391 Geneva Drive** (near East Caribbean Drive) in an MP-I Zoning District (APN: 110-33-019):

Motion **2010-7305** - Special Development Permit to allow extension of an existing 56-foot tall wireless telecommunications monopole resulting in a height of 76 feet and colocation of a third carrier including three microwave dishes and three panel antennas with associated ground equipment.

**REPORT IN BRIEF**

**Existing Site Conditions** Industrial

**Surrounding Land Uses**

North Industrial/office; Water Pollution Control Plant and SMaRT Station (across Caribbean Drive)

South Industrial/office

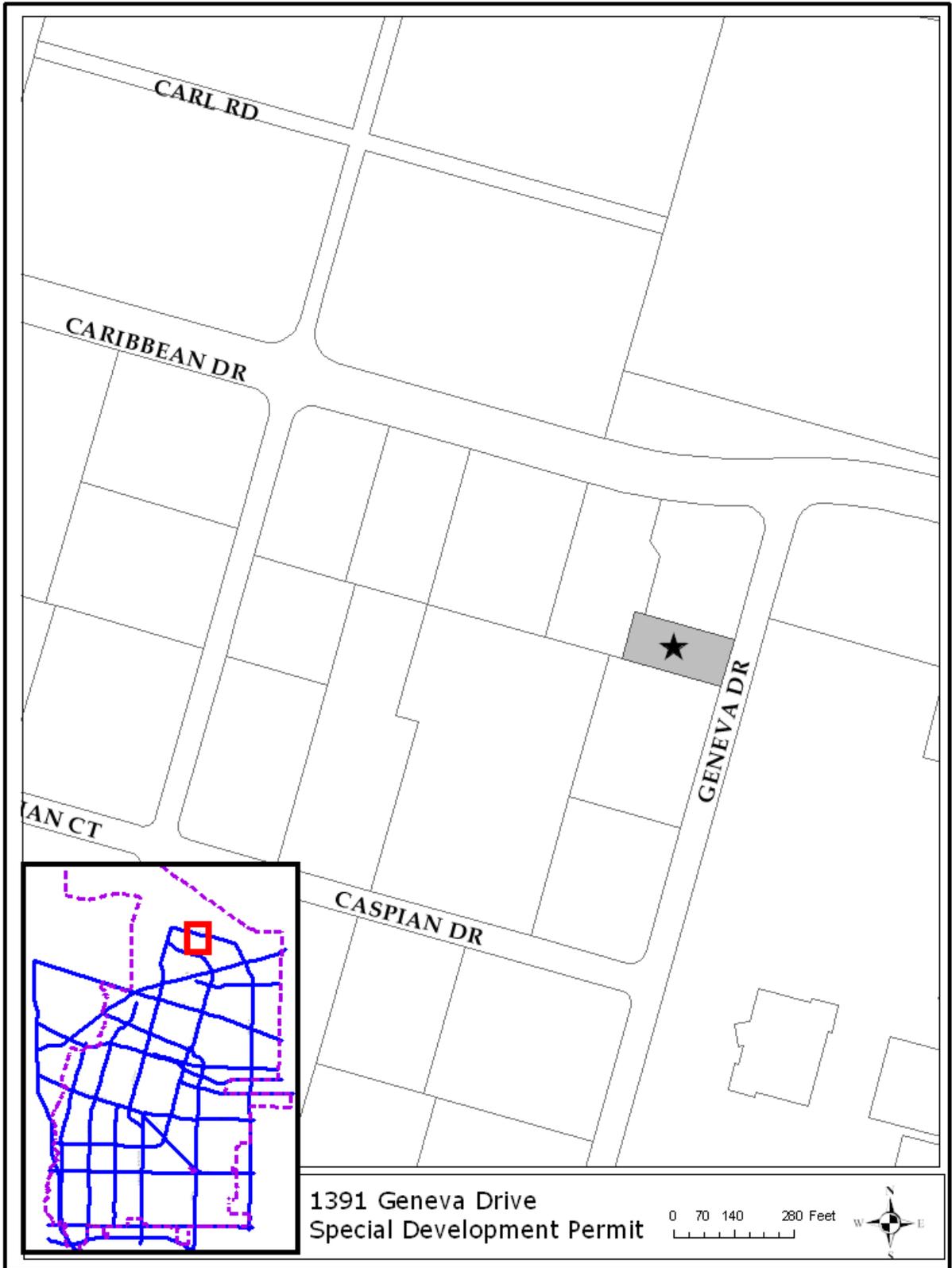
East Industrial/office (across Geneva Drive)

West Industrial/office

**Issues** Height, aesthetics

**Environmental Status** A Negative Declaration has been prepared in compliance with California Environmental Quality Act provisions and City Guidelines.

**Staff Recommendation** Approve with Conditions



## PROJECT AND SITE DESCRIPTION

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**Project Background:** The following table summarizes related previous planning applications for the subject site.

File Number	Brief Description	Hearing/Decision	Date
2002-0593	Use Permit to add six antennas to the existing monopole [approval not exercised]	Planning Commission/ Approved	9/23/2002
2000-0280	Use Permit to extend monopole to 56 feet and colocate a second provider with three antennas [two installed]	Planning Commission/ Approved	6/26/2000
1997-0616	Use Permit for a new 48-foot monopole with three antennas [two installed]	Planning Commission/ Approved	3/10/1997

**General Plan and Zoning District:** The project site is located within the Moffett Park Specific Plan area north of Highway 237. The General Plan Designation is MP (Moffett Park), and the Zoning Designation is MP-I (Moffett Park Industrial).

**Project Site:** The project site is an approximately 28,000 square foot industrial property within the Moffett Park Specific Plan area. The site is currently developed with a single industrial building. Surrounding uses to the west, east, and south are industrial, R&D, and office facilities within Moffett Park. To the north across Caribbean Drive is the City's Water Pollution Control Plant, the City's solid waste and recycling collection station (SMaRT Station) and the baylands of the San Francisco Bay. There are no nearby residential uses.

The project area is an existing fenced enclosure within the existing paved parking lot at the rear of the property (southwest corner). Within the enclosure is an existing 56-foot tall wireless telecommunications monopole and associated ground equipment. Due to the property's location near the corner of Geneva Drive and Caribbean Drive, the existing monopole is visible from both streets.

There is an existing monopole located in the rear parking area of the adjacent site to the north (1393 Geneva Drive). This monopole is visible in front of the subject monopole when viewed from Caribbean Drive.

**Description of Project:** The proposed project will add a 20-foot extension to the top of the existing monopole resulting in a total height of 76 feet. The monopole is located in an approximately 600 square foot fenced enclosure within the parking area of an industrial site. The monopole currently has facilities for two wireless telecommunications providers including a total of four panel antennas flush mounted to the pole. The proposed project would colocate a third wireless telecommunications provider (Clearwire) at the top of the extended monopole including three new panel antennas and three new microwave dishes. The project would also include one new equipment cabinet within the existing fenced enclosure at the base of the pole. No generators are proposed as part of this project. No parking or landscaping will be removed or altered as part of this project.

**Reason for Permit:** A Major Special Development Permit with Planning Commission review is required for monopoles or other telecommunications towers greater than 65 feet tall which are located less than 1,000 feet from the right-of-way of a freeway, expressway, or arterial street. The subject monopole is located approximately 375 feet from Caribbean Drive, a Class-1 arterial.

**Radio Frequency (RF) Emissions Exposure:** The FCC is the final authority on safety of telecommunications facilities. If the FCC has determined the facility to be in compliance with federal standards, the City is not permitted to make additional judgments on health and safety issues. The application can be reviewed by the City for compliance with design and location criteria only. The applicant has submitted a RF Emissions Report prepared by Hammett & Edison, Inc., Consulting Engineers (Attachment F), which provides information about the proposed RF emissions of the facility. This report indicates the RF emissions proposed for the facility meet FCC requirements.

## **ANALYSIS OF PROJECT DESIGN**

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The project is subject to the telecommunications design requirements in SMC Chapter 19.54. The following key policies apply to the project:

SMC 19.54.040(b). All facilities shall be designed to minimize the visual impact to the greatest extent feasible, considering technological requirements, by means of placement, screening, and camouflage, to be compatible with existing architectural elements and building materials, and other site characteristics. The applicant shall use the smallest and least visible antennas possible to accomplish the owner/operator's coverage objectives.

SMC 19.54.040(i). Where appropriate, facilities shall be installed so as to maintain and enhance existing landscaping on the site, including trees, foliage and shrubs, whether or not utilized for screening. . .

SMC 19.54.040(j). All monopoles and lattice towers shall be designed to be the minimum functional height and width required to support the proposed antenna installation.

SMC 19.54.140(a). Whenever technically feasible, wireless telecommunication service providers are encouraged to co-locate telecommunication facilities in order to reduce adverse visual impacts; however, the city discourages the development of antenna farms or the clustering of multiple antennas on a single monopole, tower or other elevation, unless the site is determined to be suitable based on the following factors:

- (1) Compliance with all FCC RF emission standards;
- (2) Visibility from residentially zoned property;
- (3) Visibility from El Camino Real or other major arterial street;
- (4) Visibility from the downtown specific plan area or other area declared by the director of community development to be visually sensitive; and
- (5) Lack of aesthetically preferable feasible alternatives.

SMC 19.54.140(d). When determined to be technically feasible and appropriate, unutilized space should be made available for co-location of other wireless telecommunication facilities, including space for entities providing similar, competing services. . .

**Discussion:** Based on the criteria in SMC 19.54, staff has determined this is an appropriate site for a colocation facility with antennas for multiple wireless telecommunications providers. The site is located in an industrial setting with no nearby residential uses, and is not visible from El Camino Real or the downtown. Although the proposed extension of the monopole will result in added visual impacts, the proposal has fewer visual impacts than would a separate second facility, making colocation the preferable alternative. The applicant has designed the proposed facility to locate the new antennas and microwave dishes as close to the pole as possible and paint them to match the pole, minimizing visual impact as much as possible. All new cables will be located fully within the monopole (Plans, Attachment D) (Photosimulations, Attachment E). Further camouflaging the monopole with a “stealth” design such as a faux tree was determined not to be feasible or aesthetically preferable. A faux tree pole would appear out of place in the site’s paved parking area, where there are no existing trees or mature landscaping. The existing facility’s location directly adjacent to the south and west property lines is also a constraint. A wider facility such as a faux tree would need to be relocated to prevent the facility from crossing property lines. Finally, existing contracts with the providers currently located on the pole would constrain the property owner and applicant from relocating, redesigning, or replacing the existing facility. As a result, colocation as proposed by the applicant is the most feasible and aesthetically preferable alternative. To ensure the actual

installation matches the photosimulations and plans, staff is recommending Condition of Approval #1 requiring conformance (Attachment B). Staff is also recommending Condition of Approval #9 to further ensure the key design details for minimizing visual impact are retained.

## **EXPECTED IMPACT ON SURROUNDINGS**

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**Height, Location, and Aesthetics:** The proposed monopole extension will result in a total height of 76 feet, which is within the 100-foot height limit for telecommunications facilities in the MP-I Zoning District. The project's location and design, including the Conditions of Approval recommended by staff (Attachment B), will ensure the project will not have a negative visual impact on the surrounding area. The project area is an existing monopole located on an industrial site with no nearby residential uses. The visual impacts of the proposed extension will be reduced to the greatest extent feasible by locating new antennas and microwave dishes close to the pole, painting all new equipment to match the existing installation, and locating all new cables within the monopole.

**Mechanical Equipment/Noise:** The project proposes one new equipment cabinet to be located within the existing fenced enclosure at the base of the monopole. No generators are proposed as part of this project. The City's existing Municipal Code noise regulations, the project design, and the project location will ensure the use of equipment on the site does not result in significant noise impacts on the surrounding area. City requirements are summarized in Standard Development Requirement #20 (Attachment B). Staff is also recommending Condition of Approval #16 requiring noise analysis to be performed once the facility is in operation to verify compliance with noise standards.

## **PUBLIC CONTACT**

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**Public Contact:** Nine notices were sent to surrounding property owners and tenants adjacent to the subject site in addition to standard noticing practice. Staff has not received any comments in response to these contacts. One person requested to view the project plans at the One-Stop Permit Center but did not provide comments.

## **ECONOMIC DEVELOPMENT AND FISCAL IMPACT**

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No fiscal impacts other than normal fees and taxes are expected. The project is not subject to any mitigation fee requirements as it is not expected to impact the need for transportation systems, housing, or parks.

## **ENVIRONMENTAL DETERMINATION**

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A Negative Declaration has been prepared in compliance with the California Environmental Quality Act provisions and City Guidelines. An initial study has determined that the proposed project would not create any significant environmental impacts (see Attachment C, Initial Study).

### **ALTERNATIVES:**

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1. Adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B.
2. Adopt the Negative Declaration and approve the Special Development Permit with modified conditions.
3. Adopt the Negative Declaration and deny the Special Development Permit.
4. Do not adopt the Negative Declaration and direct staff as to where additional environmental analysis is required.

### **RECOMMENDATION**

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Alternative 1. Adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B.

Staff was able to make the required Findings as described in Attachment A.

Reviewed by:

Steve Lynch  
Senior Planner

Prepared By: Mariya Hodge, Associate Planner

### **Attachments:**

- A. Recommended Findings
- B. Standard Requirements and Recommended Conditions of Approval
- C. Negative Declaration
- D. Site and Architectural Plans
- E. Photosimulations
- F. Radio Frequency Emissions Analysis
- G. Applicant's Project Description and Justifications

## **RECOMMENDED FINDINGS**

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In order to approve the Special Development Permit, the proposed project must meet the following findings.

1. The proposed use attains the objectives and purposes of the General Plan of the City of Sunnyvale.

*Land Use and Transportation Element, Policy N1.7 – Support the location of convenient retail and commercial services (e.g. restaurants and hotels) in industrial areas to support businesses, their customers and their employees.*

The proposed project will provide a colocated multi-provider facility which will enhance telecommunications networks in the Moffett Park area, providing a key communication service to industrial businesses, customers, and employees.

In addition, the City Council's Telecommunications Policy promotes retention of local zoning authority when reviewing telecommunications facilities. The Zoning Code requires that the location of telecommunications facilities be designed with sensitivity to surrounding areas. The proposed facility is compliant with all wireless telecommunication development standards:

- The project meets all FCC RF emissions standards;
- The facility is designed to minimize visual impacts to the greatest extent feasible by locating new antennas and microwave dishes close to the pole, painting the new equipment to match existing, and locating all new cables within the monopole;
- No landscaping is proposed to be removed as part of the project;
- The existing monopole is located in the paved parking area of an industrial site with no surrounding residential uses.

**Staff was able to make the finding above as the design meets the guidelines and design policies described above and in the report.**

2. The proposed use ensures that the general appearance of proposed structures, or the uses to be made of the property to which the application refers, will not impair the orderly development of, or the existing uses being made of, adjacent properties.

The proposed project will extend an existing monopole resulting in a total height of 76 feet and colocate a third wireless telecommunications provider on the monopole. The visual impacts of the proposed extension will be

reduced to the greatest extent feasible by locating new antennas and microwave dishes close to the pole, painting all new equipment to match the existing installation, and locating all new cables within the monopole. The project is located within a fenced enclosure in the paved parking lot of an existing industrial site. There are no nearby residential uses. Ancillary ground equipment is subject to the requirements of the City's noise ordinance and these requirements ensure the facility will not result in noise impacts on adjacent properties. The project meets federal requirements for RF emissions. The project's location and design, including the Conditions of Approval recommended by staff (Attachment B), will ensure the project will not have a negative visual impact on the surrounding area.

**Staff was able to make the finding above as the project is not expected to have negative impacts on the subject site or surrounding properties.**

**RECOMMENDED  
CONDITIONS OF APPROVAL AND  
STANDARD DEVELOPMENT REQUIREMENTS  
JUNE 28, 2010**

Planning Application **2010-7305, 1391 Geneva Drive**  
**Special Development Permit** to allow extension of an existing 56-foot tall wireless telecommunications monopole resulting in a height of 76 feet and collocation of a third carrier including three microwave dishes and three panel antennas with associated ground equipment.

The following Conditions of Approval [COA] and Standard Development Requirements [SDR] apply to the project referenced above. The COAs are specific conditions applicable to the proposed project. The SDRs are items which are codified or adopted by resolution and have been included for ease of reference, they may not be appealed or changed. The COAs and SDRs are grouped under specific headings that relate to the timing of required compliance. Additional language within a condition may further define the timing of required compliance. Applicable mitigation measures are noted with "Mitigation Measure" and placed in the applicable phase of the project.

In addition to complying with all applicable City, County, State and Federal Statutes, Codes, Ordinances, Resolutions and Regulations, Permittee expressly accepts and agrees to comply with the following Conditions of Approval and Standard Development Requirements of this Permit:

**THE FOLLOWING GENERAL CONDITIONS SHALL APPLY TO THE APPROVED PROJECT.**

1. **CONFORMANCE WITH APPROVED PLANNING APPLICATION** – All building permit drawings and subsequent construction and operation shall substantially conform with the approved planning application, including: drawings/plans, photosimulations, materials samples, building colors, and other items submitted as part of the approved application. Any proposed amendments to the approved plans or Conditions of Approval are subject to review and approval by the City. The Director of Community Development shall determine whether revisions are considered major or minor. Minor changes are subject to review and approval by the Director of Community Development. Major changes are subject to review at a public hearing. [COA] [PLANNING]
2. **COMPLY WITH APPLICABLE REGULATIONS** - The facility must comply with any and all applicable regulations and standards promulgated or imposed by any state or federal agency, including but not limited to the

Federal Communications Commission and Federal Aviation Agency.[SDR]  
[PLANNING]

3. PERMIT EXPIRATION (Ordinance 2895-09): The Special Development Permit shall be valid for three (3) years from the date of approval by the final review authority (as adopted by City Council on April 21, 2009, RTC 09-094). Extensions of time may be considered, for a maximum of two one year extensions, if applied for and approved prior to the expiration of the permit approval. If the approval is not exercised within this time frame, the permit is null and void. [SDR] (PLANNING)
4. TESTING WITHIN 15 DAYS - The applicant shall test any wireless telecommunications site installed in the City of Sunnyvale within 15 days of operating the facility. The test shall confirm that any Emergency 911 wireless call made through the wireless telecommunications site shall provide Enhanced 911 capability (including phase 2 information when available from the caller's device) and direct the call to the City of Sunnyvale Department of Public Safety dispatcher, ensuring phase 2 information is transferred. If the call is to be directed elsewhere pursuant to State and Federal law the applicant shall ensure that the Enhanced 911 information transfers to that dispatch center. This capability shall be routinely tested to ensure compliance as long as the approved wireless telecommunications site is in service. [SDR] [PLANNING]
5. HOLD HARMLESS - The wireless telecommunication facility provider shall defend, indemnify, and hold harmless the city or any of its boards, commissions, agents, officers, and employees from any claim, action or proceeding against the city, its boards, commission, agents, officers, or employees to attack, set aside, void, or annul, the approval of the project when such claim or action is brought within the time period provided for in applicable state and/or local statutes. The city shall promptly notify the provider(s) of any such claim, action or proceeding. The city shall have the option of coordinating in the defense. Nothing contained in this stipulation shall prohibit the city from participating in a defense of any claim, action, or proceeding if the city bears its own attorney's fees and costs, and the city defends the action in good faith. [SDR] [PLANNING]
6. LIABILITY - Facility lessors shall be strictly liable for any and all sudden and accidental pollution and gradual pollution resulting from their use within the city. This liability shall include cleanup, intentional injury or damage to persons or property. Additionally, lessors shall be responsible for any sanctions, fines, or other monetary costs imposed as a result of

the release of pollutants from their operations. Pollutants include any solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapor, soot, fumes, acids, alkalis, chemicals, and waste. Waste includes materials to be recycled, reconditioned or reclaimed. [SDR] [PLANNING]

7. NO THREAT TO PUBLIC HEALTH - The facility shall not be sited or operated in such a manner that is poses, either by itself or in combination with other such facilities, a potential threat to public health. To that end, the subject facility and the combination of on-site facilities shall not produce at any time power densities in any inhabited area that exceed the FCC's Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters or any more restrictive standard subsequently adopted or promulgated by the federal government. [SDR] [PLANNING]
8. CONFORMANCE WITH PREVIOUS PLANNING PERMITS – The subject site shall comply with all conditions of approval and requirements of planning applications 1997-0616, 2000-0280, 2000-0471, 2002-0593, and 2007-0401. [PLANNING] [COA]

**THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS SUBMITTED FOR ANY DEMOLITION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND/OR ENCROACHMENT PERMIT AND SHALL BE MET PRIOR TO THE ISSUANCE OF SAID PERMIT(S).**

9. PROJECT DESIGN – The project plans shall demonstrate compliance with the following design elements:
  - a) The new portion of the monopole, new antennas, and new microwave dishes shall be painted to match the existing monopole and antennas;
  - b) Antennas and microwave dishes shall be located as close to the monopole as possible as shown in the approved plans and photosimulations;
  - c) All cables and wires shall be located fully within the interior of the monopole;
  - d) All associated ground equipment shall be located within the existing fenced enclosure at the base of the monopole and fully screened to the highest point. [COA] [PLANNING]

10. CONDITIONS OF APPROVAL – Final plans shall include all Conditions of Approval included as part of the approved application starting on sheet 2 of the plans. [COA] [PLANNING]
11. RESPONSE TO CONDITIONS OF APPROVAL – A written response indicating how each condition has or will be addressed shall accompany the building permit set of plans. [COA] [PLANNING]
12. NOTICE OF PROJECT RESTRICTIONS – A Notice of Project Restrictions shall be filed in the official records of the County of Santa Clara and provide proof of such recordation to the City prior to issuance of any City permit, allowed use of the property, or Final Map, as applicable. The Notice of Project Restrictions shall be prepared by the Planning Division and shall include a description of the subject property, the Planning Application number, attached conditions of approval and any accompanying subdivision or parcel map, including book and page and recorded document number, if any, and be signed and notarized by each property owner of record.

For purposes of determining the record owner of the property, the applicant shall provide the City with evidence in the form of a report from a title insurance company indicating that the record owner(s) are the person(s) who have signed the Notice of Project Restrictions. [COA] [PLANNING]

13. BLUEPRINT FOR A CLEAN BAY – The building permit plans shall include a “Blueprint for a Clean Bay” on one full sized sheet of the plans. [SDR] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS AND/OR SHALL BE MET PRIOR TO RELEASE OF UTILITIES OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.**

14. LANDSCAPING AND IRRIGATION – All landscaping and irrigation as contained in the approved building permit plan shall be installed prior to occupancy. [COA] [PLANNING]
15. RF EMISSIONS STUDIES - The applicant shall submit to the Director of Community Development at least two reports of field measurements for Radio Frequency Emissions showing: 1.) The ambient level of RF emissions before construction of the facility and 2.) The actual level of

emissions after the facility is in place and operating at or near full capacity. [COA] [PLANNING]

16. NOISE STUDIES - The applicant shall submit to the Director of Community Development at least two Noise Analysis reports of field measurements showing: 1.) The noise measurement before construction of the facility and 2.) The actual noise measurement after the facility is in place and operating at or near full capacity. [COA] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE COMPLIED WITH AT ALL TIMES DURING THE CONSTRUCTION PHASE OF THE PROJECT.**

17. BLUEPRINT FOR A CLEAN BAY – The project shall be in compliance with stormwater best management practices for general construction activity until the project is completed and either final occupancy has been granted. [SDR] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE COMPLIED WITH AT ALL TIMES THAT THE USE PERMITTED BY THIS PLANNING APPLICATION OCCUPIES THE PREMISES.**

18. CERTIFICATION - Before January 31 of each even numbered year following the issuance of any authorizing establishment of a wireless telecommunication facility, an authorized representative for each wireless carrier providing service in the City of Sunnyvale shall provide written certification to the City executed under penalty of perjury that (i) each facility is being operated in accordance with the approved local and federal permits and includes test results that confirm the facility meets city noise requirements and federal RF emissions standards; (ii) each facility complies with the then-current general and design standards and is in compliance with the approved plans; (iii) whether the facility is currently being used by the owner or operator; and (iv) the basic contact and site information supplied by the owner or operator is current.. [SDR] [PLANNING]
19. 10 YEAR RENEWAL - Every owner or operator of a wireless telecommunication facility shall renew the facility permit at least every ten (10) years from the date of initial approval. If a permit or other entitlement for use is not renewed, it shall automatically become null and void without notice or hearing ten (10) years after it is issued, or upon cessation of use for more than a year and a day, whichever comes

first. Unless a new use permit or entitlement of use is issued, within one hundred twenty (120) days after a permit becomes null and void all improvements, including foundations and appurtenant ground wires, shall be removed from the property and the site restored to its original pre-installation condition within one hundred eighty (180) days of nonrenewal or abandonment. [SDR] [PLANNING]

20. MINIMIZE NOISE - The facility shall be operated in such a manner so as to minimize any possible disruption caused by noise. Backup generators shall only be operated during periods of power outages, and shall not be tested on weekends or holidays, or between the hours of 10:00 p.m. and 7:00 a.m. on weekday nights. At no time shall equipment noise from any source exceed an exterior noise level of 60 dB at the property line. [SDR] [PLANNING]
  
21. RF EMISSIONS - Certification must be provided that the proposed facility will at all times comply with all applicable health requirements and standards pertaining to RF emissions. [SDR] [PLANNING]
  
22. MAINTAIN CURRENT INFORMATION - The owner or operator shall maintain, at all times, a sign mounted on the outside fence showing the operator name, site number and emergency contact telephone number. The owner or operator of the facility shall also submit and maintain current at all times basic contact and site information on a form to be supplied by the city. The applicant shall notify city of any changes to the information submitted within thirty (30) days of any change, including change of the name or legal status of the owner or operator. This information shall include, but is not limited to the following:
  - a) Identity, including name, address and telephone number, and legal status of the owner of the facility including official identification numbers and FCC certification, and if different from the owner, the identity and legal status of the person or entity responsible for operating the facility.
  - b) Name, address and telephone number of a local contact person for emergencies.
  - c) Type of service provided. [SDR] [PLANNING]
  
23. GOOD REPAIR - All facilities and related equipment, including lighting, fences and fence slats, shields, cabinets, and poles, shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism, and any damage from any cause shall be repaired as soon as reasonably possible so as to minimize occurrences of dangerous conditions or visual blight. Graffiti shall be removed from any facility or

equipment as soon as practicable, and in no instance more than forty-eight (48) hours from the time of notification by the city. [SDR] [PLANNING]

24. RESPONSIBILITY TO MAINTAIN - The owner or operator of the facility shall routinely and regularly inspect each site to ensure compliance with the standards set forth in the Telecommunications Ordinance. [SDR] [PLANNING]
  
25. NO INTERFERENCE WITH CITY COMMUNICATION SYSTEMS - The facility operator shall be strictly liable for interference caused by the facility with city communication systems. The operator shall be responsible for all labor and equipment costs for determining the source of the interference, all costs associated with eliminating the interference, (including but not limited to filtering, installing cavities, installing directional antennas, powering down systems, and engineering analysis), and all costs arising from third party claims against the city attributable to the interference. [SDR] [PLANNING]



PLANNING DIVISION  
 CITY OF SUNNYVALE  
 P.O. BOX 3707  
 SUNNYVALE, CALIFORNIA 94088-3707

File#: 16134 6/04/2010

File Number: 2010-7305  
 No. 10-05

ATTACHMENT C  
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**NOTICE OF INTENT TO ADOPT  
 NEGATIVE DECLARATION**

This form is provided as a notification of an intent to adopt a Negative Declaration which has been prepared in compliance with the provisions of the California Environmental Quality Act of 1970, as amended, and Resolution #193-86.

**PROJECT TITLE:**

Application for a **Special Development Permit by Clearwire/Crown Castle.**

**PROJECT DESCRIPTION AND LOCATION (APN):**

**2010-7305:** Special Development Permit to allow an extension of an existing 56' wireless telecommunications monopole resulting in a height of 76' and colocation of a third carrier including 3 microwave dishes and 3 panel antennas with associated ground equipment.

**WHERE TO VIEW THIS DOCUMENT:**

The **Negative Declaration**, its supporting documentation and details relating to the project are on file and available for review and comment in the Office of the Secretary of the Planning Commission, City Hall, 456 West Olive Avenue, Sunnyvale.

This **Negative Declaration** may be protested in writing by any person prior to 5:00 p.m. on **Monday, June 28, 2010**. Protest shall be filed in the Department of Community Development, 456 W. Olive Avenue, Sunnyvale and shall include a written statement specifying anticipated environmental effects which may be significant. A protest of a **Negative Declaration** will be considered by the adopting authority, whose action on the protest may be appealed.

**HEARING INFORMATION:**

A public hearing on the project is scheduled for:

**Monday, June 28, 2010** at 8:00 p.m. in the Council Chambers, City Hall, 456 West Olive Avenue, Sunnyvale.

**TOXIC SITE INFORMATION:**

(No) listed toxic sites are present at the project location.

Circulated On June 4, 2010

Signed: *Gerri Caruso*  
 Gerri Caruso, Principal Planner



California Environmental Quality Act  
Initial Study

Project Title	Special Development Permit #2010-7305
Lead Agency Name and Address	City of Sunnyvale P.O. Box 3707, Sunnyvale, CA 94088-3707
Contact Person	Mariya Hodge, Associate Planner
Phone Number	(408) 730-7659
Project Location	On the west side of Geneva Drive (nearest cross-street is Caribbean Drive) located in the Moffett Park area north of Highway 237
Applicant's Name	Clearwire/Crown Castle
Project Address	1391 Geneva Drive, Sunnyvale, CA 94089
Zoning	MP-I (Moffett Park – Industrial)
General Plan	MP (Moffett Park Specific Plan)
Other Public Agencies whose approval is required	N/A

**DETAILED DESCRIPTION OF THE PROJECT:** The proposed project will add a 20-foot extension to the top of an existing 56-foot tall wireless telecommunications monopole resulting in a total height of 76 feet. The existing monopole is located in an approximately 600 square foot fenced enclosure within the parking area of an industrial site. The monopole currently has facilities for two wireless telecommunications providers including a total of 4 panel antennas flush mounted to the pole. The proposed project would colocate a third wireless telecommunications provider (Clearwire Communications) at the top of the extended monopole including 3 new panel antennas and 3 new microwave dishes. The project would also include 1 new equipment cabinet within the existing fenced enclosure at the base of the pole. No generators are proposed as part of this project.

The site context is an approximately 28,000 square foot industrial property within the Moffett Park Specific Plan area. The site is currently developed with a single industrial building. The project area is an existing fenced enclosure within the existing paved parking lot at the rear of the property (southwest corner). Due to the property's location near the corner of Geneva Drive and Caribbean Drive, the existing monopole is visible from both streets. Surrounding uses to the west, east, and south are industrial, R&D, and office facilities within the Moffett Park Specific Plan area located north of Highway 237. To the north across Caribbean Drive is the City's Water Pollution Control Plant, the City's solid waste and recycling collection station (SMaRT Station) and the baylands of the San Francisco Bay. There are no nearby residential uses.

ATTACHMENT C  
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**EVALUATION OF ENVIRONMENTAL IMPACTS:**

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g. the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g. the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
4. "Negative Declaration: Potentially Significant Unless Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section 17, "Earlier Analysis," may be cross-referenced).
5. Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c) (3) (d). In this case, a brief discussion should identify the following:
6. Earlier Analysis Used. Identify and state where they are available for review.
7. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
8. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
9. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g. general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Aesthetics             | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services                    |
| <input type="checkbox"/> Agricultural Resources | <input type="checkbox"/> Hydrology/Water Quality       | <input type="checkbox"/> Recreation                         |
| <input type="checkbox"/> Air Quality            | <input type="checkbox"/> Land Use/Planning             | <input type="checkbox"/> Transportation/Traffic             |
| <input type="checkbox"/> Biological Resources   | <input type="checkbox"/> Mineral Resources             | <input type="checkbox"/> Utilities/Service Systems          |
| <input type="checkbox"/> Cultural Resources     | <input type="checkbox"/> Noise                         | <input type="checkbox"/> Mandatory Findings of Significance |
| <input type="checkbox"/> Geology/Soils          | <input type="checkbox"/> Population/Housing            |   |

**MANDATORY FINDINGS OF SIGNIFICANCE (see checklist for further information):**

Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?  Yes  No

Mandatory Findings of Significance? Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of the past projects, the effects of other current projects, and the effects of probable future projects)?  Yes  No

Mandatory Findings of Significance? Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?  Yes  No

**DETERMINATION:**

On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that the proposed project MAY have a "potential significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Checklist Preparer: Mariya Hodge

Date: 6/3/2010

Title: Associate Planner

City of Sunnyvale

Signature:

*Mariya Hodge*  
for Mariya Hodge

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
1. Aesthetics -Substantially damage scenic resources, including, but not limited to trees, historic buildings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
2. Aesthetics -Substantially degrade the existing visual character or quality of the site and its surroundings including significant adverse visual changes to neighborhood character?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
3. Aesthetics -Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
4. Population and Housing - Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure) in a way that is inconsistent with the Sunnyvale General Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Land Use and Transportation Element of the General Plan, General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
5. Population and Housing - Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Housing Sub-Element, Land Use and Transportation Element and General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
6. Population and Housing - Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Housing Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
7. Land Use Planning - Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
8. Land Use Planning conflict - With the Sunnyvale General Plan, Zoning Ordinance, San Francisco Bay Conservation and Development Commission (BCDC) area or related specific plan adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Land Use and Transportation Element, Sunnyvale General Plan, Title 19 (Zoning) of the Sunnyvale Municipal Code <a href="http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off">http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off</a>
9. Transportation and Traffic - Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parking Requirements (Section 19.46) in the Sunnyvale Municipal Code <a href="http://qcode.us/codes/sunnyvale/view.php?topic=19-4-19_46&amp;frames=off">http://qcode.us/codes/sunnyvale/view.php?topic=19-4-19_46&amp;frames=off</a>
10. For a project located the Moffett Field AICUZ or an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Moffett Field AICUZ, Sunnyvale Zoning Map, Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
11. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There are no private airstrips in or in the vicinity of Sunnyvale
12. For a project within the vicinity of Moffett Federal Airfield, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Moffett Field AICUZ, Sunnyvale Zoning Map, Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
13. Agricultural Resources - Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Zoning Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
14. Noise - Exposure of persons to or generation of noise levels in excess of standards established in the Noise Sub-Element, Noise limits in the Sunnyvale Municipal Code, or applicable standards of the California Building Code?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sunnyvale Noise Sub-element, SMC <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> 19.42 Noise Ordinance <a href="http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off">http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off</a>
15. Noise -Exposure of persons to or generation of excessive groundborne vibration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Noise Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
16. Noise - A substantial permanent or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Noise Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
17. Biological Resources - Have a substantially adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description
18. Biological Resources -Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
19. Biological Resources -Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description
20. Biological Resources -Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SMC 19.90 Tree Preservation Ordinance Sunnyvale Inventory of Heritage Trees
21. Biological Resources -Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
22. Historic and Cultural Resources - Cause a substantial adverse change in the significance of a historical resource or a substantial adverse change in an archeological resource?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Heritage Preservation Sub-Element, Sunnyvale Inventory or Heritage Resources The United States Secretary of the Interior's "Guidelines for Rehabilitation" Criteria of the National Register of Historic Places
23. Historic and Cultural Resources - Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
24. Public Services - Would the project result in substantial adverse physical impacts associated with the provision of new or expanded public schools, the construction of which could cause significant environmental impacts, in order to maintain acceptable performance objectives?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The following public school districts are located in the City of Sunnyvale: Fremont Union High School District, Sunnyvale Elementary School District, Cupertino Union School District and Santa Clara Unified School District. Project Description
25. Air Quality - Conflict with or obstruct implementation of the BAAQMD air quality plan? How close is the use to a major road, hwy. or freeway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale General Plan Map Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
26. Air Quality - Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Project Description
27. Air Quality -Would the project conflict with any applicable plan, policy or regulation of any agency adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Project Description
28. Air Quality -Violate any air quality standard or contribute substantially to an existing or projected air quality violation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element Project Description
29. Air Quality -Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
30. Air Quality -Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
31. Seismic Safety -Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Santa Clara County Geologic Hazard Zones Maps California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
32. Seismic Safety - Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
33. Seismic Safety-Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
34. Seismic Safety-Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Santa Clara County Geologic Hazard Zones Maps California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code

Transportation	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
35. Exceeds the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all modes of transportation including nonmotorized travel and all relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian walkways, bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	City's Land Use and Transportation Element, Santa Clara County Transportation Plan, and AASHTO: A Policy on Geometric Design of Highways and Streets.
36. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measurements, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara County Congestion Management Program and Technical Guidelines (for conducting TIA and LOS thresholds).
37. Results in a change in air traffic patterns, including either an increase in air traffic levels or a change in flight patterns or location that results in substantial safety risks to vehicles, bicycles, or pedestrians?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan including the Land Use and Transportation Element
38. Substantially increase hazards to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	City and CA Standard Plans & Standard Specifications
39. Conflict with adopted policies, plans, or programs regarding public transit or nonmotorized transportation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Bicycle Plan, VTA Bicycle Technical Guidelines, and VTA Short Range Transit Plan

Transportation	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
40. Affect the multi-modal performance of the highway and/or street and/or rail and/or off road nonmotorized trail transportation facilities, in terms of structural, operational, or perception-based measures of effectiveness (e.g. quality of service for nonmotorized and transit modes)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VTA Community Design and Transportation Manual, and Sunnyvale Neighborhood Traffic Calming Program.
41. Reduce, sever, or eliminate pedestrian or bicycle circulation or access, or preclude future planned and approved bicycle or pedestrian circulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Bicycle Plan, Pedestrian and Bicycle Opportunities Studies and associated capital projects.
42. Cause a degradation of the performance or availability of all transit including buses, light or heavy rail for people or goods movement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VTA Transit Operations Performance Report, VTA Short Range Transit Plan, and Valley Transportation Plan for 2035.
Building	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
43. Hydrology and Water Quality - Place housing within a 100-year floodplain, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FEMA Flood Insurance Rate Map Effective 5/18/09 <a href="http://www.sunnyvalebuilding.com">www.sunnyvalebuilding.com</a> , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description
44. Hydrology and Water Quality - Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FEMA Flood Insurance Rate Map Effective 5/18/09 <a href="http://www.sunnyvalebuilding.com">www.sunnyvalebuilding.com</a> , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description

Building	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
45. Hydrology and Water Quality - Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1995 ABAG Dam Inundation Map <a href="http://www.abag.ca.gov">www.abag.ca.gov</a> , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description
46. Geology and Soils -Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Municipal Code 12.60, Storm Water Quality Best Sunnyvale Management Practices Guideline Manual Project Description
47. Geology and Soils -Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Safety and Seismic Safety Sub-Element, <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> , California Plumbing, Mechanical, and Electrical Codes and Title 16 (Building) of the Sunnyvale Municipal Code
48. Geology and Soils -Be located on expansive soil, as defined by the current building code, creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	California Plumbing, Mechanical, and Electrical Codes and Title 16 (Building) of the Sunnyvale Municipal Code
Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
49. Utilities and Service Systems: Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Wastewater Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
50. Utilities and Service Systems: Require or result in construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Waste Water Management Sub-Element Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
51. Utilities and Service Systems: Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Waste Water Management Sub-Element Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
52. Utilities and Service Systems: Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
53. Utilities and Service Systems: Result in a determination by the wastewater treatment provider which services or may serve the project determined that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Wastewater Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
54. Utilities and Service Systems: Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Solid Waste Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
55. Hydrology and Water Quality - Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Regional Water Quality Control Board (RWQCB) Region 2 Municipal Regional Permit

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
56. Hydrology and Water Quality - Substantially degrade groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara Valley Water District Groundwater Protection Ordinance <a href="http://www.valleywater.org">www.valleywater.org</a>
57. Hydrology and Water Quality - Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project description Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
58. Hydrology and Water Quality - Create or contribute runoff which would exceed the capacity of existing or planned storm water drainage systems in a manner which could create flooding or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	RWQCB, Region 2 Municipal Regional Permit, Stormwater Quality BMP Guidance Manual for New and Redevelopment Projects <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
59. Hydrology and Water Quality - Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara Valley Water District (SCVWD) Guidelines and Standards for Land Use Near Streams <a href="http://www.valleywater.org">www.valleywater.org</a> City of Sunnyvale Stormwater Quality Best Management Practices (BMP) Guidance Manual for New and Redevelopment Projects <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
60. Utilities and Service Systems: Comply with federal, state, and local statues and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solid Waste Management Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
61. Public Services Infrastructure? Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
Public Safety – Hazardous Materials	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
62. Public Services Police and Fire protection - Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Law Enforcement Sub-Element Sunnyvale Fire Services Sub-Element Safety and Seismic Safety Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
63. Public Services Police and Fire protection - Would the project result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	California Building Code SMC Section 16.52 Fire Code

Public Safety – Hazardous Materials	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
64. Hazards and Hazardous Materials - Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
65. Hazards and Hazardous Materials - Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
66. Hazards and Hazardous Materials - Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
67. Hazards and Hazardous Materials - Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Hazardous Waste & Substances List (State of California) List of Known Contaminants in Sunnyvale
68. Hazards and Hazardous Materials - Impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Community Services	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
69. Public Services Parks? Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
70. Recreation - Would the project increase the use of existing neighborhood or regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
71. Recreation - Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

**Further Discussion of "Less Than Significant" impacts with or without mitigation:**

2. Aesthetics: Due to the property's location near the corner of Geneva Drive and Caribbean Drive, the existing monopole is visible from both streets. The proposed project will extend the height of the monopole by 20 feet (to a total of 76 feet) and collocate a third wireless telecommunications provider at the top of the pole including three panel antennas and three microwave dishes. The antennas and microwave dishes will be flush mounted directly to the pole resulting in a low-profile design to minimize visual impact. Surrounding uses are industrial, R&D, and office facilities, the City's Water Pollution Control Plant, and the City's solid waste and recycling collection station. There are no nearby residential uses. The design and location of the proposed project ensure it will not substantially degrade the visual character or quality of the site or surrounding area. Expected aesthetic impacts are less than significant with no mitigation needed.

14. Noise: The project will introduce short-term and temporary additional sources of noise to the project area during construction. The project area is located within the Moffett Park Industrial area north of Highway 237. Surrounding uses are industrial, R&D, and office facilities, the City's Water Pollution Control Plant, and the City's solid waste and recycling collection station. There are no nearby residential uses. The City's existing Municipal Code noise regulations and the project location will ensure the impact of construction noise is less than significant with no mitigation needed.

RF Emissions: The proposed telecommunications facility is subject to Federal Communications Commission (FCC) limits and standards for human exposure to radio frequency (RF) emissions. The applicant has submitted a RF exposure study, prepared by Hammett & Edison, Inc., Consulting Engineers, indicating compliance with these Federal requirements. As a result, no impact related to RF emissions is anticipated and no mitigation is needed.

Responsible Division: Planning

Completed by: Mariya Hodge

Date: 6/3/2010

Note: All references are the most recent version as of the date the Initial Study was prepared:

**City of Sunnyvale General Plan:**

- A. General Plan Map
- B. Air Quality Sub-Element (1993)
- C. Arts Sub-Element (1995)
- D. Community Design Sub-Element (1990)
- E. Community Engagement Sub-Element (2007)
- F. Fire Services Sub-Element (1995)
- G. Community Vision (2007)
- H. Fiscal Sub-Element (2006)
- I. Heritage Preservation Sub-Element (1995)
- J. Housing & Community Revitalization Sub-Element (2009)
- K. Land Use & Transportation Sub-Element (1997)  
*Revised 4/28/09 with Allocation of Street Space Policies*
- L. Law Enforcement Sub-Element (1995)
- M. Legislative Management Sub-Element (1999)
- N. Library Sub-Element (2003)
- O. Noise Sub-Element (1997)
- P. Open Space and Recreation Sub-Element (2006)  
*Updated with Parks of the Future Study 4/28/2009.  
Revised 4/24/09.*
- Q. Safety & Seismic Safety Sub-Element (2008)
- R. Socio-Economic Sub-Element (1989)
- S. Solid Waste Management Sub-Element (1996)
- T. Support Services Sub-Element (1988)
- U. Surface Run-off Sub-Element (1993)
- V. Wastewater Management Sub-Element (1996)
- W. Water Resources Sub-Element (2008)

**City of Sunnyvale Municipal Code:**

- A. Title 8 Health and Sanitation
- B. Title 9 Public Peace, Safety or Welfare
- C. Title 10 Vehicles and Traffic
- D. Title 12 Water and Sewers
- E. Chapter 12.60 Storm Water Management
- F. Title 13 Streets and Sidewalks
- G. Title 16 Buildings and Construction
- H. Chapter 16.52 Fire Code
- I. Chapter 16.54 Building Standards for Buildings Exceeding Seventy-Five Feet in Height
- J. Title 18 Subdivisions
- K. Title 19 Zoning
- L. Chapter 19.28 Downtown Specific Plan District
- M. Chapter 19.29 Moffett Park Specific plan District
- N. Chapter 19.39 Green Building Regulations
- O. Chapter 19.42 Operating Standards

- P. Chapter 19.54 Wireless Telecommunication Facilities
- Q. Chapter 19.81 Streamside Development Review
- R. Chapter 19.96 Heritage Preservation
- S. Title 20 Hazardous Materials

**Specific Plans:**

- A. Downtown Specific Plan
- B. El Camino Real Precise Plan
- C. Lockheed Site Master Use Permit
- D. Moffett Park Specific Plan
- E. 101 & Lawrence Site Specific Plan
- F. Southern Pacific Corridor Plan
- G. Lakeside Specific Plan
- H. Arques Campus Specific Plan

**Environmental Impact Reports:**

- A. Futures Study Environmental Impact Report
- B. Lockheed Site Master Use Permit Environmental Impact Report
- C. Tasman Corridor LRT Environmental Impact Study (supplemental)
- D. Kaiser Permanente Medical Center Replacement Center Environmental Impact Report (City of Santa Clara)
- E. Downtown Development Program Environmental Impact Report
- F. Caribbean-Moffett Park Environmental Impact Report
- G. Southern Pacific Corridor Plan Environmental Impact Report
- H. East Sunnyvale ITR General Plan Amendment EIR
- I. Palo Alto Medical Foundation Medical Clinic Project EIR
- J. Luminaire (Lawrence Station Road/Hwy 237 residential) EIR
- K. NASA Ames Development Plan Programmatic EIS
- L. Mary Avenue Overpass EIR
- M. Mathilda Avenue Bridge EIR

**Maps:**

- A. General Plan Map
- B. Zoning Map
- C. City of Sunnyvale Aerial Maps
- D. Flood Insurance Rate Maps (FEMA)
- E. Santa Clara County Assessors Parcel

**Note:**All references are the most recent version as of the date the Initial Study was prepared:

- F. Utility Maps
- G. Air Installations Compatible Use Zones (AICUZ) Study Map
- H. Noise Sub-Element Appendix A 2010 Noise Conditions Map

**Lists / Inventories:**

- A. Sunnyvale Cultural Resources Inventory List
- B. Heritage Landmark Designation List
- C. Santa Clara County Heritage Resource Inventory
- D. Hazardous Waste & Substances Sites List (State of California)
- E. List of Known Contaminants in Sunnyvale
- F. USFWS / CA Dept. F&G Endangered and Threatened Animals of California  
<http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/TEAnimals.pdf>
- G. USFWS / CA Dept. F&G Endangered, Threatened and Rare Plants of California  
<http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/TEPlants.pdf>

**Legislation / Acts / Bills / Resource Agency**

**Codes and Permits:**

- A. Subdivision Map Act
- B. San Francisco Bay Region Municipal Regional Stormwater NPDES Permit
- C. Santa Clara County Valley Water District Groundwater Protection Ordinance
- D. The Hazardous Waste and Substance Site List  
[www.dtsc.ca.gov/SiteCleanup/Cortese\\_List.cfm](http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm)
- E. The Leaking Underground Petroleum Storage Tank List  
[www.geotracker.waterboards.ca.gov](http://www.geotracker.waterboards.ca.gov)
- F. The Federal EPA Superfund List  
[www.epa.gov/region9/cleanup/california.html](http://www.epa.gov/region9/cleanup/california.html)
- G. Section 404 of Clean Water Act

**Transportation:**

- A. California Department of Transportation Highway Design Manual
- B. California Department of Transportation Traffic Manual
- C. California Department of Transportation Standard Plans & Standard Specifications
- D. Highway Capacity Manual
- E. Institute of Transportation Engineers - Trip Generation Manual & Trip Generation Handbook

- F. Institute of Transportation Engineers - Traffic Engineering Handbook
- G. Institute of Transportation Engineers - Manual of Traffic Engineering Studies
- H. Institute of Transportation Engineers - Transportation Planning Handbook
- I. Institute of Transportation Engineers - Manual of Traffic Signal Design
- J. Institute of Transportation Engineers - Transportation and Land Development
- K. U.S. Dept. of Transportation Federal Highway Administration Manual on Uniform Traffic Control Devices for Street and Highways & CA Supplements
- L. California Vehicle Code
- M. Santa Clara County Congestion Management Program and Technical Guidelines
- N. Santa Clara County Transportation Agency Short Range Transit Plan
- O. Santa Clara County Transportation Plan
- P. Traffic Volume Studies, City of Sunnyvale Public works Department of Traffic Engineering Division
- Q. Statewide Integrated Traffic Records System
- R. Sunnyvale Zoning Ordinance – including Titles 10 & 13
- S. City of Sunnyvale General Plan – land Use and Transportation Element
- T. City of Sunnyvale Bicycle Plan
- U. City of Sunnyvale Neighborhood Traffic Calming Program
- V. Valley Transportation Authority Bicycle Technical Guidelines
- W. Valley Transportation Authority Community Design & Transportation – Manual of Best Practices for Integrating Transportation and Land Use
- X. Santa Clara County Sub-Regional Deficiency Plan
- Y. City of Sunnyvale Deficiency Plan
- Z. AASHTO: A Policy on Geometric Design of Highways and Streets

**Public Works:**

- A. Standard Specifications and Details of the Department of Public Works
- B. Storm Drain Master Plan
- C. Sanitary Sewer Master Plan

# ENVIRONMENTAL CHECKLIST REFERENCE LIST

File#: 16134

6/04/2010

**Note:**All references are the most recent version as of the date the Initial Study was prepared:

- D. Water Master Plan
- E. Solid Waste Management Plan of Santa Clara County
- F. Geotechnical Investigation Reports
- G. Engineering Division Project Files
- H. Subdivision and Parcel Map Files

### Miscellaneous Agency Plans:

- A. ABAG Projections 2010
- B. Bay Area Clean Air Plan
- C. BAAQMD CEQA Guidelines
- J. Criteria of the National Register of Historic Places

- G. Field Inspection
- H. Project Site Plan dated 05/19/2010
- I. Project construction schedule
- J. Project Draft Storm Water Management Plan
- K. Project Tree Inventory
- L. Project Tree Preservation Plan
- M. Project Green Building Checklist
- N. Project LEED Checklist

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### Other:

- A. Santa Clara County Geologic Hazard Zones Maps

### Building Safety:

- A. California Building Code,
- B. California Energy Code
- C. California Plumbing Code,
- D. California Mechanical Code,
- E. California Electrical Code
- F. California Fire Code
- G. Title 16.52 Sunnyvale Municipal Code
- H. Title 16.53 Sunnyvale Municipal Code
- I. Title 16.54 Sunnyvale Municipal Code
- J. Title 19 California Code of Regulations

ATTACHMENT     C      
Page   23   of   23  

### Guidelines and Best Management Practices

- A. Storm Water Quality Best Management Practices Guidelines Manual 2007
- B. Sunnyvale Citywide Design Guidelines
- C. Sunnyvale Industrial Guidelines
- D. Sunnyvale Single-Family Design Techniques
- E. Sunnyvale Eichler Guidelines
- F. Blueprint for a Clean Bay
- G. SCVWD Guidelines and Standards for Land Use Near Streams
- H. The United States Secretary of the Interior 's Guidelines for Rehabilitation
- I. Criteria of the National Register of Historic Places

### Additional Project References:

- A. Project Description
- B. Sunnyvale Project Environmental Information Form
- C. Project Development Plans dated 05/19/2010
- D. Project Traffic Impact Analysis
- E. Project Noise Study
- F. Project Air Quality Analysis



LEGAL DESCRIPTION:  
T.B.D.

**SCALE NOTE:**

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

**ORIGINATION NOTE:**

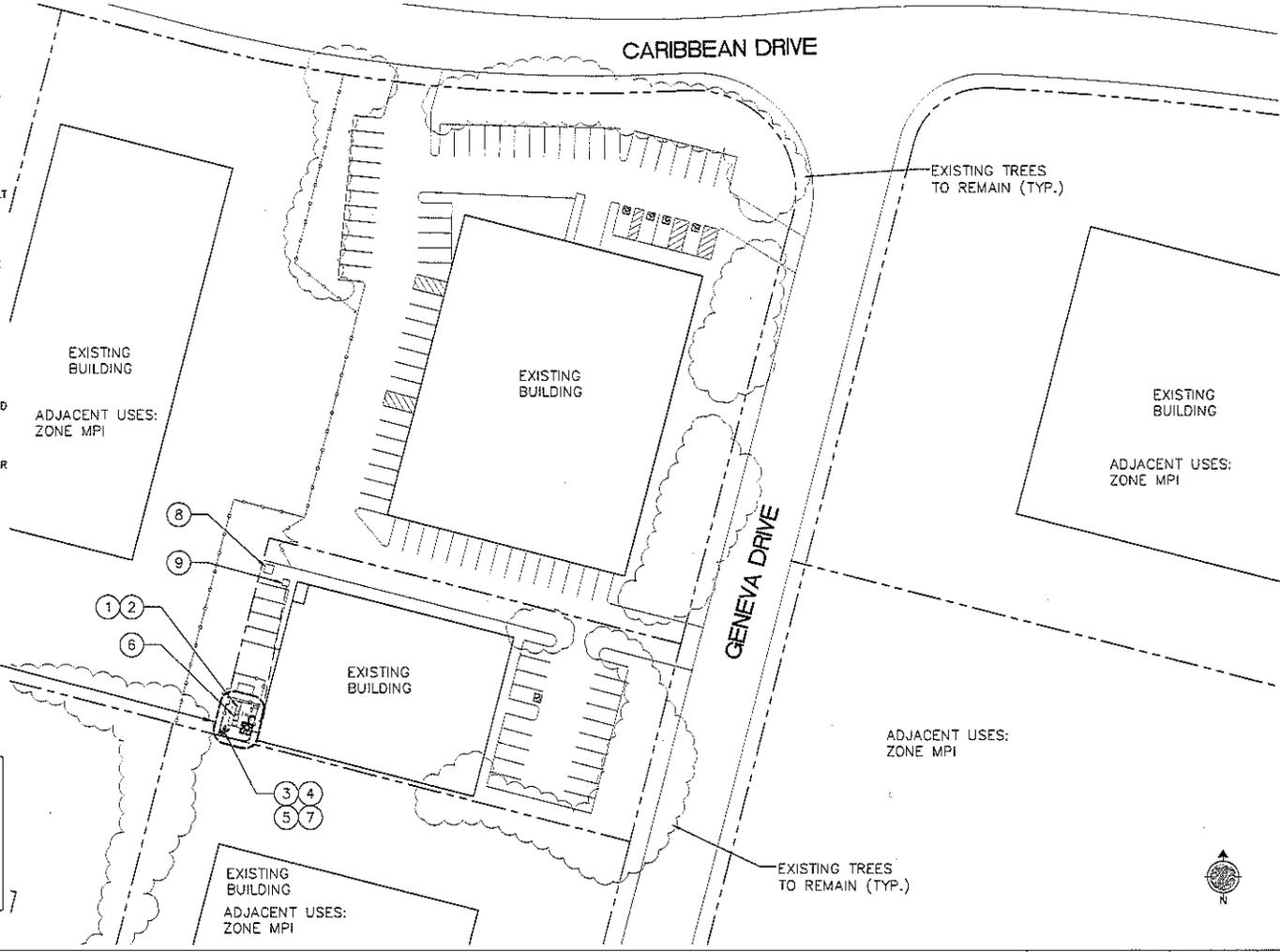
BASE PLAN PROVIDED BY OTHERS AND MAY BE AN OLDER SITE PLAN OR AS-BUILT. NEWER FIELD NOTATIONS APPEAR UNSCREENED AND OVERRIDE SCREENED IMAGE. CONTRACTOR TO FIELD CONFIRM ALL AND TO OBTAIN AS BUILTS, BEFORE START OF CONSTRUCTION.

**GENERAL NOTES:**

1. THIS PROPOSAL IS FOR AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF INSTALLATION OF NEW ANTENNAS ON THE ROOFTOP OF AN EXISTING BUILDING. THE NEW FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
2. THE NEW FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
3. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY CLEARWIRE TECHNICIANS.
4. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT NEW.
6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
10. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND DRAWINGS PROVIDED BY THE SITE OWNER. SUBCONTRACTOR SHALL NOTIFY CLEARWIRE OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

**KEY NOTES: (NOT ALL NOTES ARE USED)**

- 1 PROPOSED 6'-0" X 6'-0" CLEARWIRE LEASE AREA (36 SQ FT TOTAL).
- 2 PROPOSED CLEARWIRE EQUIPMENT CABINET.
- 3 PROPOSED 48"x13"x3" RF HEAD (TYP. OF 3)
- 4 PROPOSED 2' DIA. MICROWAVE DISH (TYP OF 3).
- 5 EXISTING SPRINT AND NEXTEL ANTENNA (TYP.)
- 6 EXISTING SPRINT AND NEXTEL EQUIPMENT (TYP.)
- 7 EXISTING POLE/TOWER
- 8 EXISTING PG&E TRANSFORMER
- 9 EXISTING PG&E PULL BOX/ CLEARWIRE P.O.C.



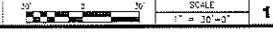
PROPOSED CLEARWIRE (1) EQUIPMENT CABINET LOCATED WITHIN EXISTING EQUIPMENT ENCLOSURE



**NOTES:**

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY A SURVEYOR.
2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.

**SITE PLAN**



**clearw're**

2500 LAKE WASHINGTON BLVD  
THE SUITE 200  
SANTA CLARA, CA 95050

---

PROJECT INFORMATION:

COMMERCIAL POLE INSTALLATION:  
CROWN 877157  
CA-3000075  
1391 GENEVA DR  
SUNNYVALE, CA 94089  
SANTA CLARA COUNTY

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PROJECT ISSUE DATE: 3/23/10

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ISSUED FOR: ZD

---

REV: DATE: DESCRIPTION: BY:


---

3/23/10 100% ZD W/P

---

PLANS PREPARED BY:

**Stantec**

Stantec Architecture Inc. Tel: 707.755.1690  
1137 N. McDowell Blvd. Fax: 707.755.9308  
Petaluma, CA U.S.A. 94951 www.stantec.com

---

CONSULTANT:

**NSA Wireless, Inc.**

2000 CROW CANYON PL., STE 400  
SAN RAMON, CA 94583  
TEL: (925) 244-1550  
FAX: (925) 355-0572

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SEAL OF APPROVAL:

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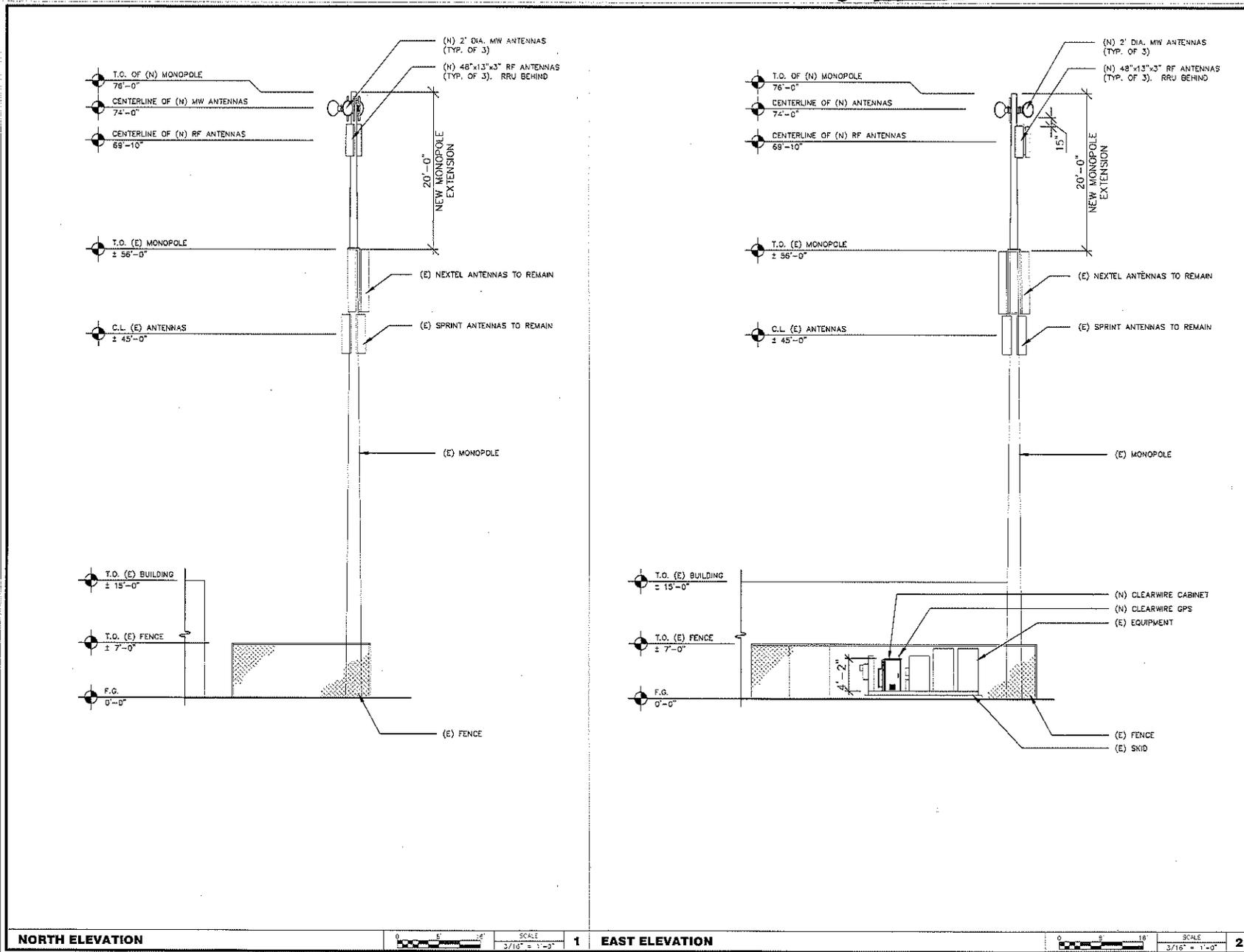
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**clearwre**

5555 BLUE WASHINGTON BLVD  
SUNNYVALE, CA 94085  
PROJECT INFORMATION:  
COMMERCIAL ROLE INSTALLATION  
CROWN 87718  
CA-5400073  
1231 REDENA DR  
SUNNYVALE, CA 94089  
SANTA CLARA COUNTY

CURRENT ISSUE DATE:  
3/23/10

ISSUED FOR:  
ZD

REV	DATE	DESCRIPTION	BY
1	3/23/10	100% CD	JVF

PLANS PREPARED BY:  
**Stantec**  
Stantec Architecture Inc. Tel: 707.765.1660  
1137 N. McGee St. Fax: 707.765.9908  
Petaluma, CA, U.S.A. 94954 www.stantec.com

CONSULTANT:  
**NSA Wireless, Inc.**  
2000 CROW CANYON Pk., STE 400  
SUNNYVALE, CA 94085  
TEL: (925) 244-1550  
FAX: (925) 355-0672

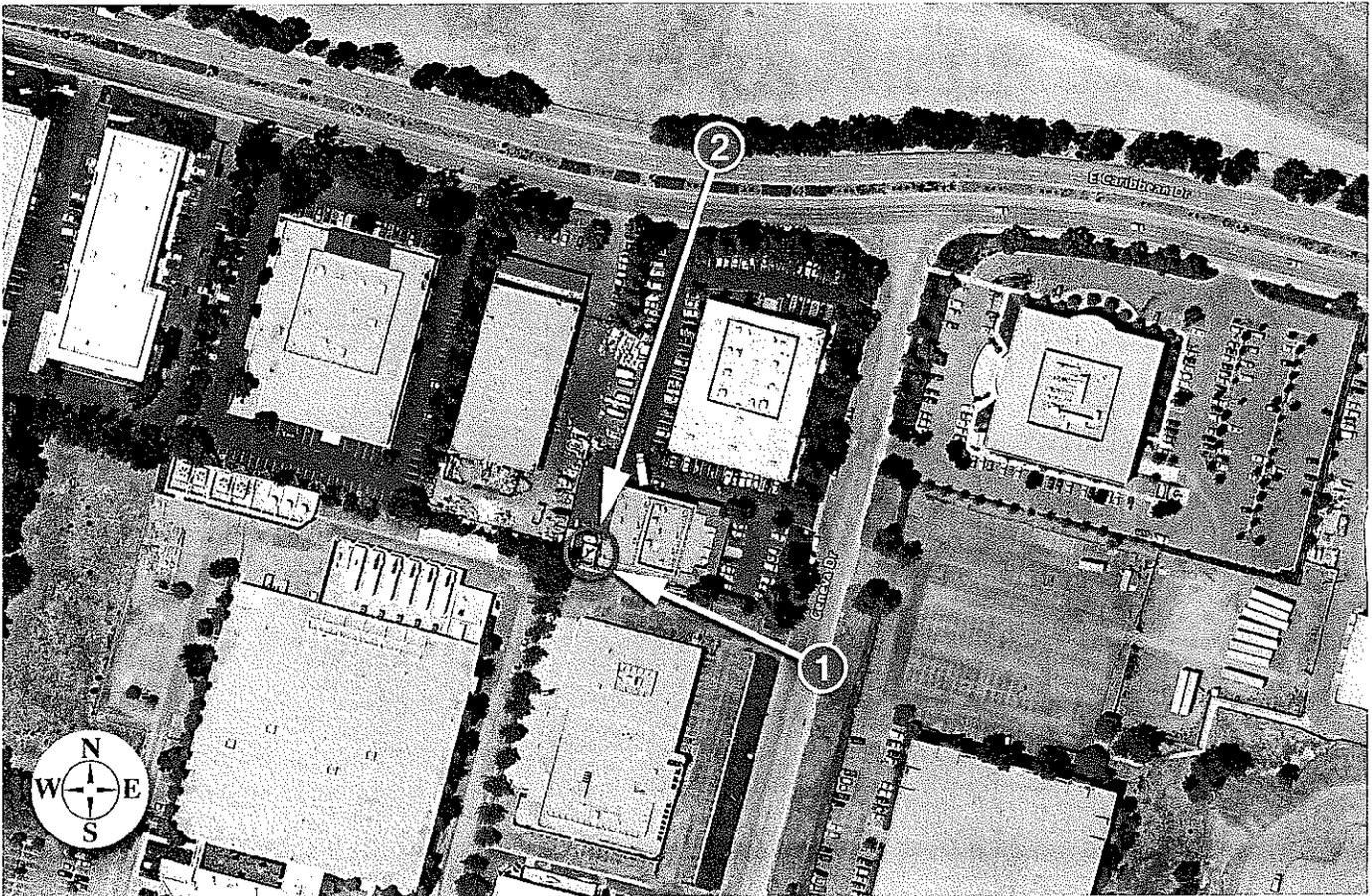
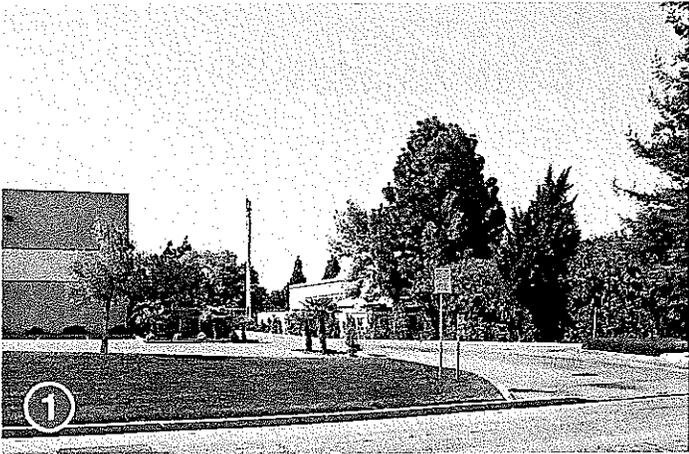
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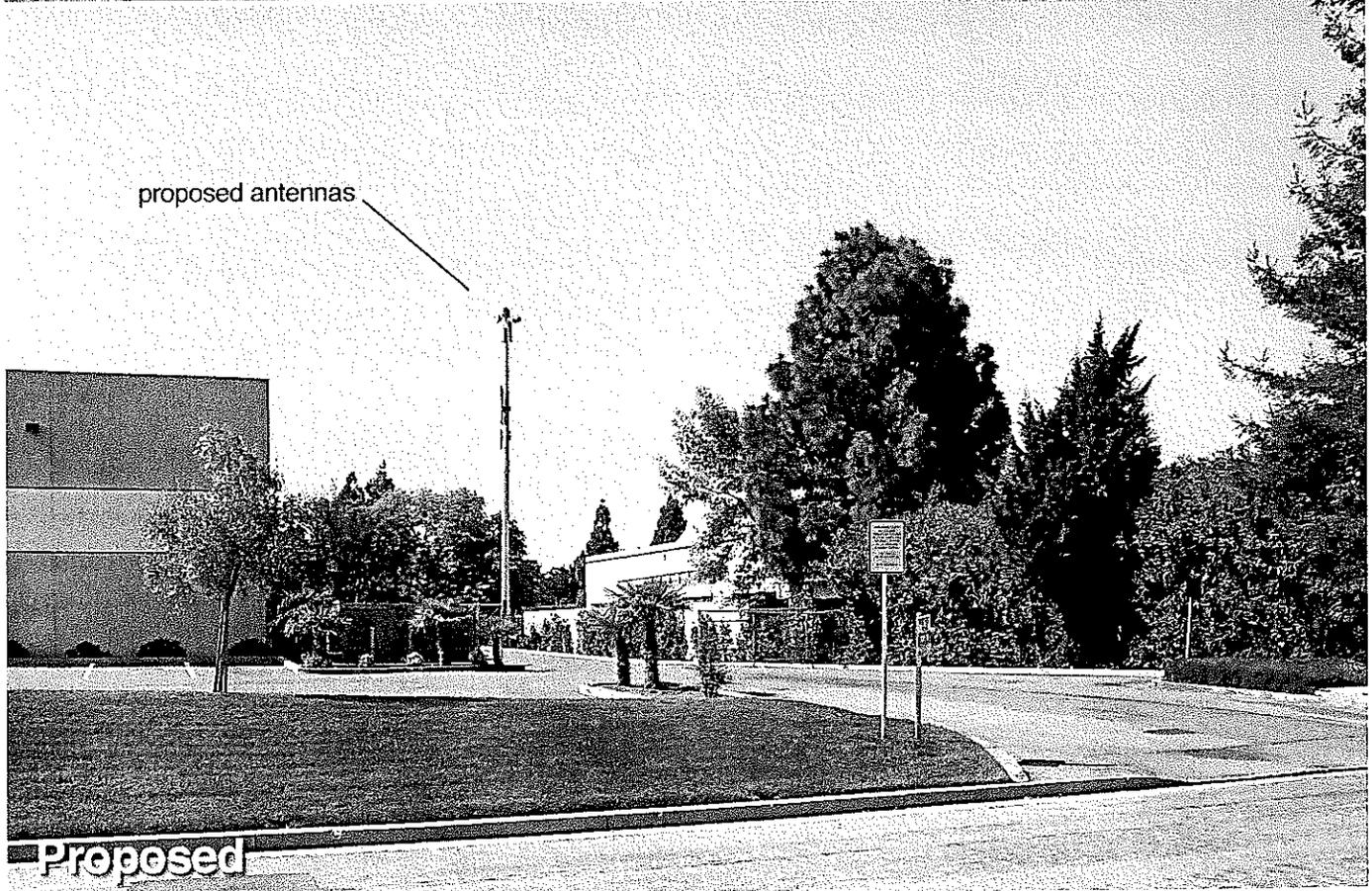
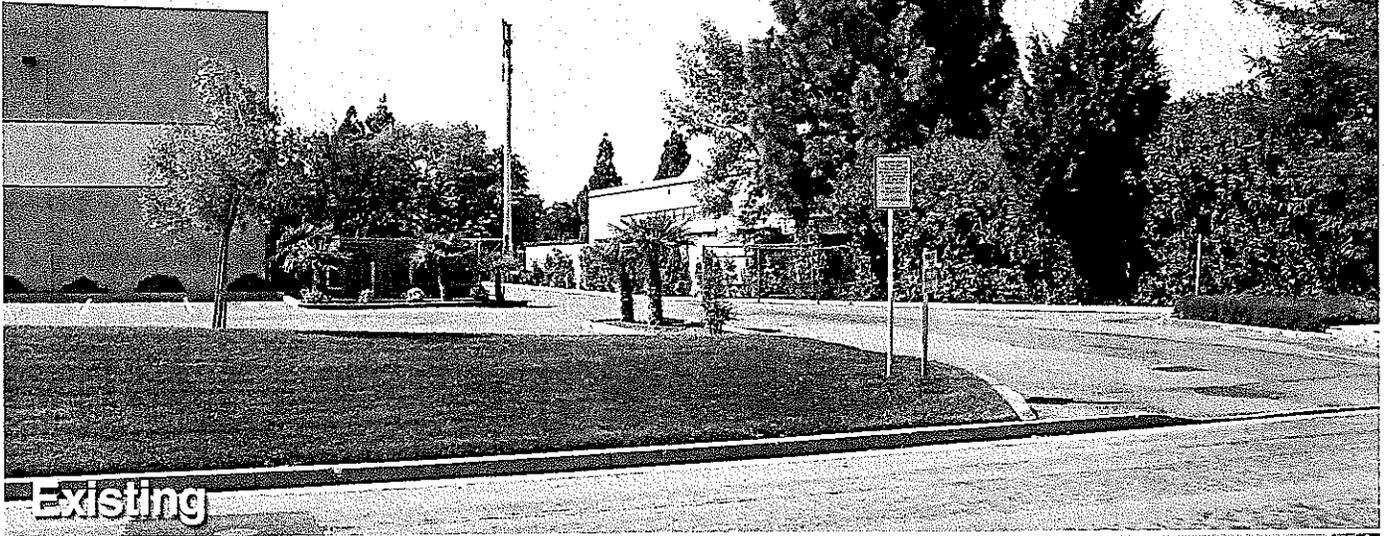
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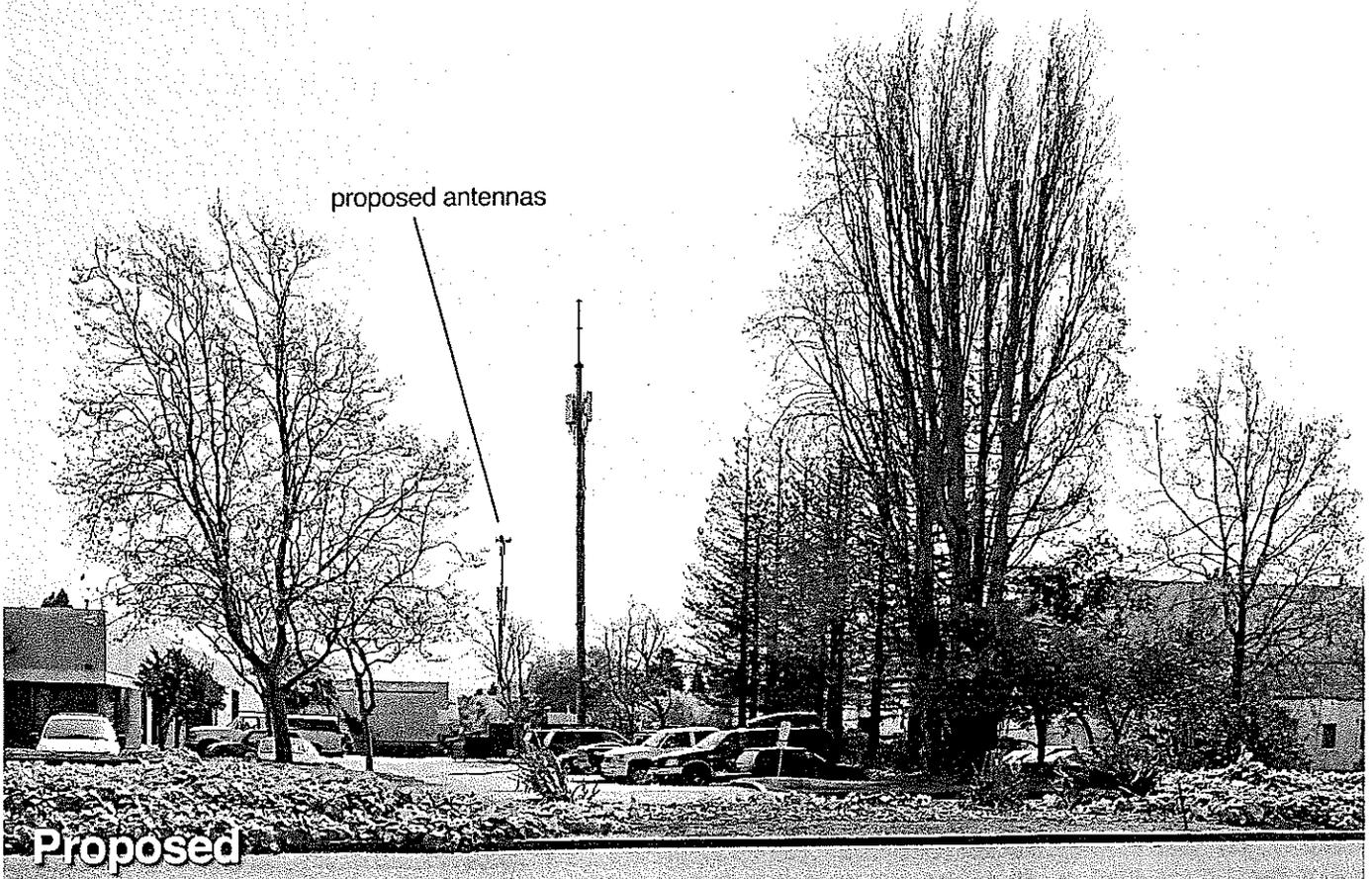
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Clearwire, LLC • Proposed Base Station (Site No. CA-SJC0073)  
1391 Geneva Drive • Sunnyvale, California

**Statement of Hammett & Edison, Inc., Consulting Engineers**

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Clearwire, LLC, a wireless service provider, to evaluate the base station (Site No. CA-SJC0073) proposed to be located at 1391 Geneva Drive in Sunnyvale, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

**Prevailing Exposure Standards**

The U.S. Congress requires that the Federal Communications Commission ("FCC") evaluate its actions for possible significant impact on the environment. In Docket 93-62, effective October 15, 1997, the FCC adopted the human exposure limits for field strength and power density recommended in Report No. 86, "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements ("NCRP"). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," includes similar exposure limits. A summary of the FCC's exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service	Approx. Frequency	Occupational Limit	Public Limit
Point-to-Point ("microwave")	5-23,000 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
Broadband Radio ("BRS")	2,600	5.00	1.00
Advanced Wireless ("AWS")	2,100	5.00	1.00
Personal Communication ("PCS")	1,950	5.00	1.00
Cellular Telephone	870	2.90	0.58
Specialized Mobile Radio ("SMR")	855	2.85	0.57
Long Term Evolution ("LTE")	700	2.33	0.47
[most restrictive frequency range]	30-300	1.00	0.20

**General Facility Requirements**

Base stations typically consist of two distinct parts: the electronic transceivers (also called "radios" or "channels") that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The



**Clearwire, LLC • Proposed Base Station (Site No. CA-SJC0073)  
1391 Geneva Drive • Sunnyvale, California**

transceivers are often located at ground level and are connected to the antennas by coaxial cables about 1 inch thick. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. Along with the low power of such facilities, this means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

### Computer Modeling Method

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation," dated August 1997. Figure 2 attached describes the calculation methodologies, reflecting the facts that a directional antenna's radiation pattern is not fully formed at locations very close by (the "near-field" effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the "inverse square law"). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

### Site and Facility Description

Based upon information provided by Clearwire, including zoning drawings by Stantec Architecture Inc., dated March 23, 2010, it is proposed to mount three Powerwave Model P6518XXW2 directional panel BRS antennas on a 20-foot extension to be added to an existing 56-foot pole sited next to a light industrial building located at 1391 Geneva Drive in Sunnyvale. The antennas would be mounted with no downtilt at an effective height of about 70 feet above ground and would be oriented toward 90°T, 180°T, and 270°T. The maximum effective radiated power in any direction would be 970 watts. Also proposed to be mounted on the pole are three microwave "dish" antennas for interconnection of this site with others in the Clearwire network.

Presently located on the pole are similar antennas for use by Sprint Nextel, and on a pole about 270 feet to the north are similar antennas for use by AT&T, other wireless telecommunications carriers. For the limited purpose of this study, the transmitting facilities of those carriers are assumed to be as follows:

Carrier	Service	Maximum ERP	Antenna Model	Height
AT&T	PCS	1,500 watts	Kathrein 742-264	50 ft
	Cellular	1,500		



**Clearwire, LLC • Proposed Base Station (Site No. CA-SJC0073)  
1391 Geneva Drive • Sunnyvale, California**

<u>Carrier</u>	<u>Service</u>	<u>Maximum ERP</u>	<u>Antenna Model</u>	<u>Height</u>
Sprint Nextel	PCS	1,500 watts	Andrew RR9017-02	46½ ft
	SMR	1,500	Andrew DB844G65	54

### Study Results

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed Clearwire operation by itself, including the contribution of the microwave antennas, is calculated to be 0.0013 mW/cm<sup>2</sup>, which is 0.13% of the applicable public exposure limit. The maximum calculated cumulative level at ground, for the simultaneous operation of all carriers, is 1.9% of the public exposure limit. The maximum calculated cumulative level at the second-floor elevation of any nearby building is 1.7% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

### No Recommended Mitigation Measures

Due to their mounting locations, the Clearwire antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that the several carriers will, as FCC licensees, take adequate steps to ensure that their employees or contractors comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

### Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the base station proposed by Clearwire, LLC at 1391 Geneva Drive in Sunnyvale, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations.

Clearwire, LLC • Proposed Base Station (Site No. CA-SJC0073)  
1391 Geneva Drive • Sunnyvale, California

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2011. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



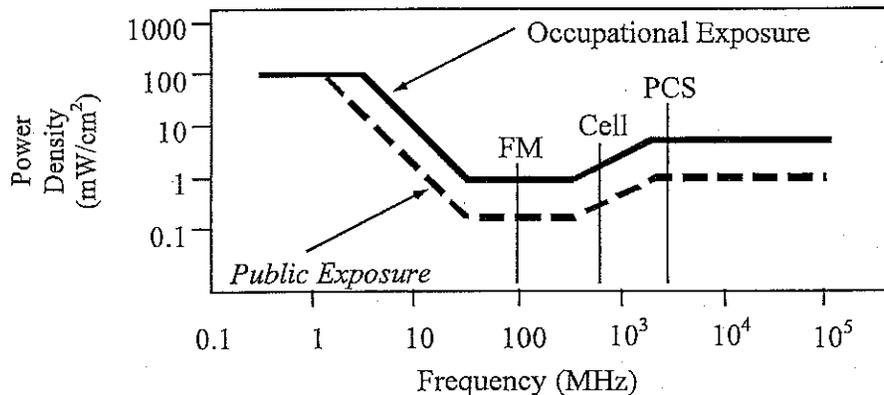
*William F. Hammett*  
William F. Hammett, P.E.

May 24, 2010

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements ("NCRP"). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (f is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm <sup>2</sup> )	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f<sup>2</sup></i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f <sup>2</sup>	<i>180/f<sup>2</sup></i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√f	<i>1.59√f</i>	√f/106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.

**Assessment by Calculation of Compliance with FCC Exposure Guidelines**

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

**Near Field.**

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density  $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$ , in mW/cm<sup>2</sup>,

and for an aperture antenna, maximum power density  $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$ , in mW/cm<sup>2</sup>,

- where  $\theta_{BW}$  = half-power beamwidth of the antenna, in degrees, and  
 $P_{net}$  = net power input to the antenna, in watts,  
 $D$  = distance from antenna, in meters,  
 $h$  = aperture height of the antenna, in meters, and  
 $\eta$  = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

**Far Field.**

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

$$\text{power density } S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}, \text{ in mW/cm}^2,$$

- where ERP = total ERP (all polarizations), in kilowatts,  
RFF = relative field factor at the direction to the actual point of calculation, and  
 $D$  = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.



**Project Description and Justification**  
**1391 Geneva Drive**  
**Sunnyvale, CA**

**Proposed Clearwire Unmanned Telecommunication Facility**  
**Project Number: 2010-7305**

**Introduction**

Clearwire offers a robust suite of advanced high-speed wireless broadband services to consumers and businesses. Clearwire's open all-IP network, combined with rich spectrum holdings, provides unmatched network capacity to deliver next-generation Internet access and applications. The company is building the first, nationwide 4G mobile Internet network, bringing together an unprecedented combination of speed and mobility. Investors include Sprint Nextel Corporation, Comcast Corporation, Intel through Intel Capital, Time Warner Cable, Google, and Bright House Networks.

Clearwire currently provides mobile WiMAX-based service and provides pre-WiMAX services in 50 markets across the U.S. and Europe. Headquartered in Kirkland, Washington, with local offices in Walnut Creek, California.

**Proposal Request and Justification**

The facility will be unmanned and will be visited only monthly for routine maintenance. The facility will emit no glare, odor or noise above acceptable levels, and does not have any signage other than those required for identification as mandated by the FCC and FAA, which are designed to protect public safety. To ensure structural integrity of the facility, Clearwire will construct and maintain their equipment in compliance with all federal, state and local building codes and standards.

Clearwire is proposing the installation of an unmanned Clearwire telecommunications facility located at 1391 Geneva Drive, in the City of Sunnyvale, California, currently zoned MPI. The existing tower is owned and operated by Crown Castle with Sprint/Nextel currently located on the existing 56-foot monopole.

Clearwire is requesting to add (3) panel antennas, (3) Micro Wave dishes and associated cables/coax that will be mounted on a proposed twenty-foot extension to the existing 56 feet pole, with a final pole height of 76 feet. The existing two carriers are located at the top of the existing monopole. One (1) equipment cabinet to be added and placed on the existing concrete slab on the ground below the monopole.

The proposed Clearwire Telecommunications Facility enhances the general welfare of the community by providing vital means of communication during times of emergency when traditional land lines are not available, and will provide the community with vital contact to information through the internet.

The proposed facility is in compliance with the City of Sunnyvale's Zoning Code, Section 19.54 Wireless Telecommunication Facilities, specifically Section 19.54.140 that encourages co-location where possible and is in compliance with all FCC RF emission standards. (See attached RF Assessment by Calculation of Compliance with FCC Exposure Guidelines dated April 5, 2010-Hammett & Edison, Inc.)