



REPORT TO PLANNING COMMISSION

Hearing Date: May 23, 2011
File Number: 2010-7706

SUBJECT: **Michelle Weller for AT&T** [Applicant] **Business Ventures, LLC** [Owner]: Application for a Special Development Permit to allow a new wireless telecommunication facility (60' slim-line tower) with 9 panel antennas and associated ground equipment. The property is located at **1225 Innsbruck Drive** (near East Moffett Park Drive and Lawrence Expressway) in the MP- TOD (Moffett Park Transit Oriented Development) Zoning District.

Motion: **2010-7706:** Use Permit to allow the construction of a new wireless telecommunication facility.

REPORT IN BRIEF:

Existing Site Conditions Research and Development

Surrounding Land Uses

North Research and Development

South Research and Development

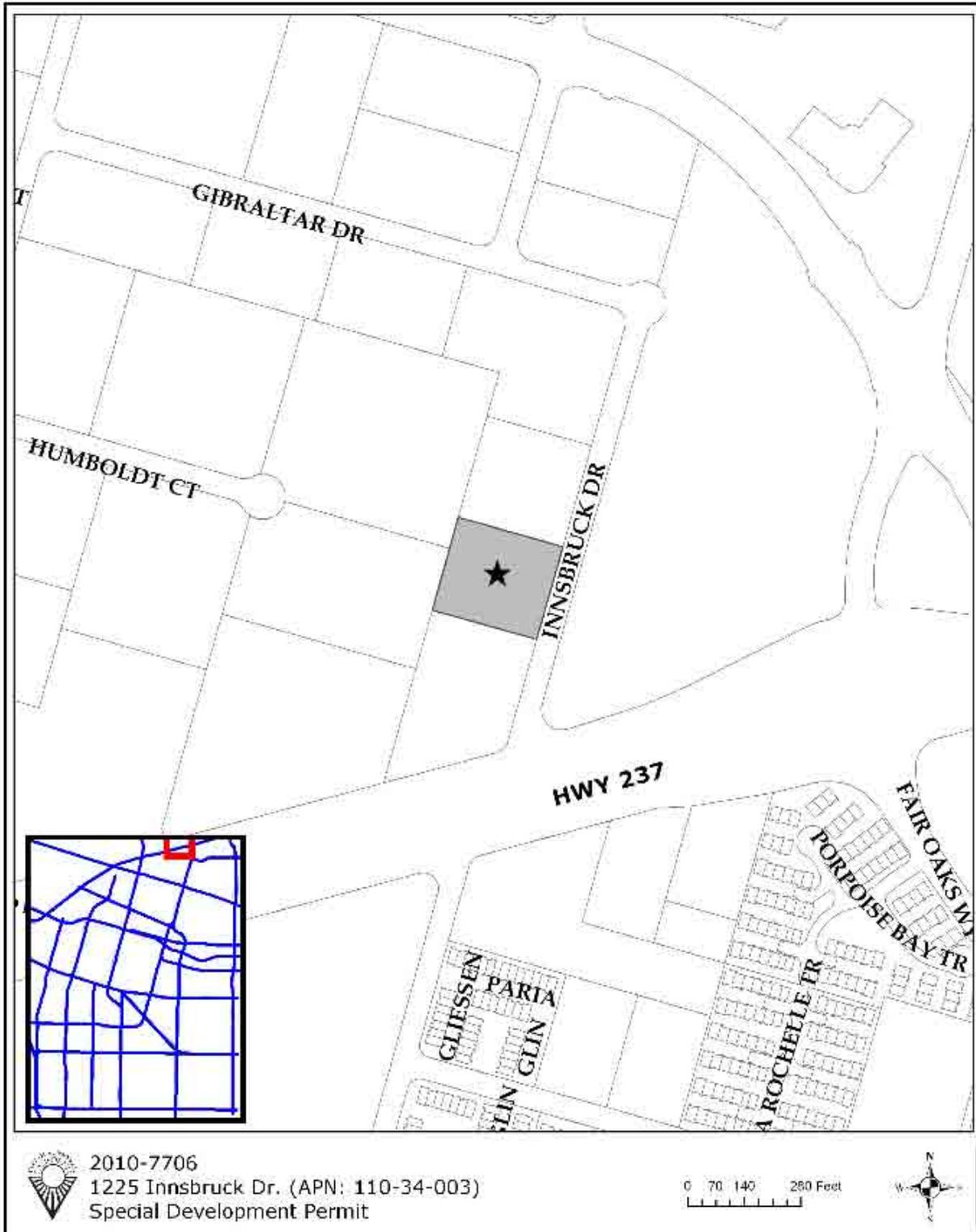
East Research and Development

West Research and Development

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

Staff Recommendation Approve with conditions

VICINITY MAP



PROJECT DATA TABLE

	EXISTING	PROPOSED	REQUIRED/ PERMITTED
General Plan	Moffett Park Specific Plan	Same	Moffett Park Specific Plan
Zoning District	MP-TOD (Moffett Park Transit Oriented Development)	Same	MP-TOD (Moffett Park Transit Oriented Development)
Lot Size (sf)	1.45 acres	Same	No min.
Height of Existing Antenna Pole	N/A	60' to top of pole	75'
Antenna Setbacks			
• Front	N/A	210'	15' min.
• Left Side	N/A	19'	20' total
• Right Side	N/A	219'	
• Rear	N/A	10'	None
Parking	86	84	Minimum 43 Maximum 87

★ Starred items indicate noncompliance with Zoning Code requirements not support by staff.

DISCUSSION:**Background**

The proposed project is a request to allow the construction of a new wireless telecommunication slim pole tower. The proposed tower and associated equipment would be located where the existing trash enclosure is and the existing enclosure would be relocated requiring the loss of two additional spaces. The height of the proposed structure would be 60' (to the top of the structure) and it would accommodate nine panel antennas. The proposed ground equipment would include an enclosed shelter which would accommodate a switching station, batteries and other associated equipment.

Requested Permit(s)

The applicant is requesting a Special Development Permit (SDP) to allow the construction of a new wireless telecommunication facility. The proposed facility would accommodate up to nine panel antennas and associated ground equipment.

- **Special Development Permit**

A SDP is required for all new freestanding wireless telecommunications facilities. This SDP would allow AT&T to improve service to the immediate area, based on the submitted coverage maps. Wireless communication uses are common in the City and this facility meets the requirements of the Federal Communications Commission for radio frequency emissions.

ANALYSIS:

Development Standards

The proposed project, as conditioned, complies with the applicable Development Standards as set forth in the Sunnyvale Municipal Code. The following items are those items that have been typically requested for clarification by the Planning Commission:

- **Site Layout**

Trash Enclosure - The existing trash enclosure is proposed to be relocated approximately 4 feet to the north to allow room for the new telecommunication facility. The relocated trash enclosure would replace two existing parking spaces. The enclosure is proposed to have a solid masonry wall and slatted chain-link gates. The relocation of the trash enclosure would result in a total of 84 parking spaces at the site which complies with the requirements of the Zoning Code.

Tower - The new tower is proposed to be located in the southwest corner of the site, within a new fenced equipment area. The location of the proposed tower complies with the setback requirements of the Zoning District (see Attachment D). The tower will have a maximum height of 60 feet and a diameter of two feet four inches. The nine antennas will be vertically stacked in groups of three to provide service to each sector. The antennas will be hidden behind an antenna screen. The proposed location results in minimal disturbance to the site.

Ground Equipment - The proposed ground equipment will be located behind a new fenced area and within a new equipment shelter adjacent to the new tower. The proposed fencing will be six feet high and constructed of cement block. The gates will be slatted chain-link. The new equipment shelter will be approximately 11 feet 6 inches tall and approximately 200 square feet.

- **Design**

The proposed telecommunication tower will be a slimline tower, which is a long cylindrical tower with the antennas mounted closely together at the center tower. A screen is added over the vertically stacked antennas to hide the antennas from view. The tower and screen are generally painted a light color. Often the light colors tend to be more visible, depending on their surroundings. Since the site has taller vegetation around in the area, staff has added a condition requiring the tower to be painted a dark matte green color with a low light reflectivity value. The colors will be subject to review by staff prior to the issuance of building permit. This should assist in blending it the tower in with the surrounding material.

In addition to the color the proposed tower, staff has included the following conditions to provide additional screening of the associated equipment and relocated trash enclosure:

- The parking space on the east side of the enclosure shall be changed to a landscape bed with a minimum of two 15 gallon evergreen trees (*Podocarpus Gracilior*) and ground cover to be planted within the new bed. All irrigation will be connected to the existing irrigation system. The additional landscaping will require the loss of one additional parking space, down to 83 spaces. The additional landscaping will screen the enclosure, equipment shed and the lower portion of the tower.
- The doors for the equipment shelter and trash enclosure shall be solid steel doors.
- The equipment shelter and trash enclosures (including doors) shall be painted to match to match the existing building.
- The tower shall be maintained and painted regularly to avoid the appearance of deteriorated paint (chipping and flaking). A schedule may be proposed by the applicant and included on the building permit plans.

- **Parking/Circulation**

The proposed project, as conditioned, will result in the loss of three parking spaces. There will be 83 parking spaces available for the tenant of the site, which complies with the requirements of the Zoning Code.

- **Landscaping and Tree Preservation**

The proposed location will not result in the loss of protected trees. However, construction will result in the disturbance of existing landscaped areas. A condition has been included requiring a landscape planting plan to restore any disturbed area.

- **Wireless Telecommunications Ordinance**

The following sections of the Wireless Telecommunication Ordinances of the Sunnyvale Municipal Code apply to the proposed project:

19.54.140(a) – Wherever 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;

- This project meets all FCC RF emissions standards.

(2) Visibility from residentially zoned property;

- The recommended conditions of approval would result in screened antennas and it would be placed approximately 250 feet from the property line. The proposed structure will be visible from Innsbruck Drive, however, the darker paint color and additional landscaping will provide screening of the facility.

(3) Visibility from El Camino Real or the right of way of a freeway, expressway or other major arterial street;

- This project facility will not be visible from the above listed corridors.

(4) Visibility from the Downtown Specific Plan area or other areas declared by the Director of Community Development to be visually sensitive; and

- This project is not visible from the Downtown Specific Plan area or other areas identified in the Telecommunications code as being sensitive.

(5) Lack of aesthetically preferable feasible alternatives.

- The area needing coverage is predominately one story structures. A height of approximately 60 feet is needed in order to provide coverage for the area. The use of the existing structures is prohibitive due to the low profile.

Environmental Review

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).

FISCAL IMPACT

No fiscal impacts other than normal fees and taxes are expected.

PUBLIC CONTACT

At the time of this staff report, Staff has not received any comments from members of the public regarding this application.

Notice of Negative Declaration and Public Hearing	Staff Report	Agenda
<ul style="list-style-type: none"> • Published in the <i>Sun</i> newspaper • Posted on the site • 16 notices mailed to the property owners and tenants within 300 ft. of the project site 	<ul style="list-style-type: none"> • Posted on the City of Sunnyvale's Website • Provided at the Reference Section of the City of Sunnyvale's Public Library 	<ul style="list-style-type: none"> • Posted on the City's official notice bulletin board • City of Sunnyvale's Website

CONCLUSION

Findings and General Plan Goals: Staff was able to make the required Findings based on the justifications for the Special Development Permit. Findings and General Plan Goals are located in Attachment A.

Conditions of Approval: Conditions of Approval are located in Attachment B.

ALTERNATIVES

1. Approve the Special Development Permit with the Recommended Conditions of Approval found in Attachment B.
2. Approve the Special Development Permit with modified Conditions of Approval.
3. Deny the Special Development Permit.

RECOMMENDATION

Recommend Alternative 1 to the Planning Commission: Approve the Special Development Permit with the Recommended Conditions of Approval found in Attachment B.

Prepared by:


Shaunn Mendrin, AICP
Project Planner

Reviewed by:


Steve Lynch, AICP
Senior Planner

Attachments:

- A. Recommended Findings
- B. Recommended Conditions of Approval
- C. Initial Study
- D. Site and Architectural Plans
- E. Coverage maps
- F. Photosimulation
- G. RF Study

RECOMMENDED FINDINGS

Findings - Special Development Permit

1. The proposed use attains the objectives and purposes of the General Plan of the City of Sunnyvale as SMC requires that the location of such facilities be designed with sensitivity to the surrounding areas. The proposed facility, as conditioned, will result in antennas screened from public view through the use of screen materials, paint and additional landscaping. Staff considers the application for the proposed facility to be consistent with the goals and policies of the Telecommunication Policy adopted by the City of Sunnyvale in June of 1996.
2. The proposed use is desirable, and will not be materially detrimental to the public welfare or injurious to the property, improvements or uses within the immediate vicinity and within the Zoning District. As conditioned, the proposed location meets the visual standards established by the City of Sunnyvale for telecommunication facilities. The project also meets all FCC RF emissions standards.

Council Policy Manual: Telecommunications (7.2.16)

The City of Sunnyvale's Council Policy Manual (CPM) is a compendium of policies established by City Council resolution or motion which provide guidelines for current or future City action. Such policies, when implemented, assist in achieving General Plan goals.

- **Policy Statement 1.A.5** - Support retention of local zoning authority for cellular towers, satellite dish antennas, and other telecommunications equipment, facilities and structures.
- **Policy Statement 2** - Promote universal access to telecommunications services for all Sunnyvale residents.

The proposed facility will be designed and sited appropriately through the City's zoning authority as conditioned and the facility will provide improved telecommunication services in an area that is underserved.

**RECOMMENDED
CONDITIONS OF APPROVAL AND
STANDARD DEVELOPMENT REQUIREMENTS
MAY 23, 2011**

Planning Application 2010-7706

1225 Innsbruck Drive

Special Development Permit to allow a new wireless telecommunication facility (60' slime-line tower) with 9 panel antennas and 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:

GC: THE FOLLOWING GENERAL CONDITIONS AND STANDARD DEVELOPMENT REQUIREMENTS SHALL APPLY TO THE APPROVED PROJECT.
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GC-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, 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]

GC-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,

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- including but not limited to the Federal Communications Commission and Federal Aviation Agency.[SDR] [PLANNING]
- GC-3. PERMIT EXPIRATION:
The permit shall be null and void two years from the date of approval by the final review authority at a public hearing if the approval is not exercised, unless a written request for an extension is received prior to expiration date and is approved by the Director of Community Development. [SDR] (PLANNING)
- GC-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 tower. 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]
- GC-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]
- GC-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]

GC-7. NO THREAT TO PUBLIC HEALTH:

The facility shall not be sited or operated in such a manner that it 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]

PS: THE FOLLOWING CONDITIONS SHALL BE MET PRIOR TO SUBMITTAL OF BUILDING PERMIT AND/OR GRADING PERMIT.

PS-1. REQUIRED REVISIONS TO PROJECT PLANS:

The plans shall be revised to address comments from the Planning Commission and shall be subject to review by the Director of Community Development. Required revision include the following:

- a) The tower shall be painted a dark matte green color with a low light reflectivity value. The colors will be subject to review by staff prior to the issuance of building permit.
- b) The parking space on the east side of the enclosure shall be changed to a landscape bed with a minimum of two 15 gallon evergreen trees (*Podocarpus Gracilior*) and ground cover to be planted within the new bed. All irrigation will be connected to the existing irrigation system. The additional landscaping will require the loss of one additional parking space, down to 83 spaces. The additional landscaping will screen the enclosure, equipment shed and the lower portion of the tower.
- c) The doors for the equipment shelter and trash enclosure shall be solid steel doors.
- d) The equipment shelter and trash enclosures (including doors) shall be painted to match to match the existing building.
- e) The tower shall be maintained and painted regularly to avoid the appearance of deteriorated paint (chipping and flaking). A schedule may be proposed by the applicant and included on the building permit plans. [COA] [PLANNING]

BP: 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).

BP-1. 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]

BP-2. LANDSCAPE PLANTING AND TREE PROTECTION PLAN:

Final plans shall include a landscape planting plan to restore the disturbed area and add additional plantings providing screening of the equipment shelter and a tree protection plan for the remaining trees adjacent to the disturbed area. [COA] [PLANNING]

BP-3. 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]

BP-4. NOTICE OF CONDITIONS OF APPROVAL:

A Notice of Conditions of Approval 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 Conditions of Approval 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 Conditions of Approval. [COA] [PLANNING]

BP-5. 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]

PF: 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.

PF-1. LANDSCAPING AND IRRIGATION:

- a) All landscaping and irrigation as contained in the approved building permit plan shall be installed and connected to the existing irrigation system prior to occupancy. [COA] [PLANNING]

PF-2. RF EMISSIONS STUDIES:

The applicant shall submit to the Director of Community Development Radio Frequency Emissions at least two reports of field measurements 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]

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

DC-1. 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]

DC-2. TREE PROTECTION:

All tree protection shall be maintained, as indicated in the tree protection plan, until construction has been completed and the installation of landscaping has begun. [COA] [PLANNING]

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

AT-1. 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]

AT-2. 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]

AT-3. 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]

AT-4. 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]

AT-5. 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:

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- 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]

AT-6. GOOD REPAIR:

All facilities and related equipment, including lighting, fences, 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]

AT-7. 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]

AT-8. 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 Number: 2010-7706
No. 11-06

**NOTICE OF INTENT TO ADOPT A
MITIGATED NEGATIVE DECLARATION**

This form is provided as a notification of an intent to adopt a Mitigated Negative Declaration which has been prepared in compliance with the provisions of the California Environmental Quality Act of 1970, as amended, and Resolution #118-04.

PROJECT TITLE:

Application for a **Special Development Permit** filed by AT&T.

PROJECT DESCRIPTION AND LOCATION (APN):

2010-7706: AT&T [Applicant] Business Ventures LLC [Owner] Application for a Special Development Permit to allow a wireless telecommunication facility for a new 60' monopole with 9 antennas located at **1225 Innsbruck Drive**. (APN: 110-34-003) SME

WHERE TO VIEW THIS DOCUMENT:

The **Mitigated 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 **Mitigated Negative Declaration** may be protested in writing by any person prior to 5:00 p.m. on **Monday, May 23, 2011**. 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 **Mitigated Negative Declaration** will be considered by the adopting authority, whose action on the protest may be appealed.

HEARING INFORMATION:

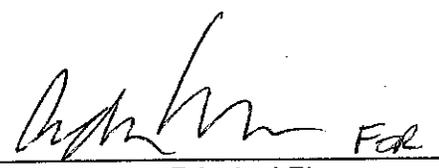
A public hearing on the project is scheduled for:

Monday, May 23, 2011 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 April 29, 2011

Signed:  Gerri Caruso, Principal Planner

Project Title	AT&T at 1225 Innsbruck Drive
Lead Agency Name and Address	City of Sunnyvale P.O. Box 3707, Sunnyvale, CA 94088-3707
Contact Person	Shaunn Mendrin, Senior Planner
Phone Number	(408) 730-7659
Applicant's Name	Michelle Weller (for ATT&T)
Project Address	1225 Innsbruck Drive
Zoning	MP-TOD
General Plan	Moffett Park Specific Plan
Other Public Agencies whose approval is required	N/A

DESCRIPTION OF THE PROJECT: The proposed project is a new wireless telecommunications tower for AT&T Wireless with a total height of 60 feet to be located at 1225 Innsbruck Drive. The proposed wireless telecommunications tower will accommodate 12 antennas within a slimline tower and associated ground equipment. The proposed slimline tower would be a maximum of 2'4" in diameter.

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, indicating compliance with these Federal requirements.

DETAILED PROJECT DESCRIPTION:

On-site Development: The site currently zoned for industrial and office uses is currently occupied by an industrial use. The proposed development will involve minimal ground disturbance for construction of footings and support for the slimline tower and trenching to connect associated equipment and relocation of the existing solid waste facility.

Construction Activities and Schedule: Construction is anticipated to begin in early July 2011 and will take approximately 60 days to complete.

Surrounding Uses and Setting: The site is surrounded by industrial development.

Off-site Improvements: No off-site improvements are proposed as part of the project.

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.

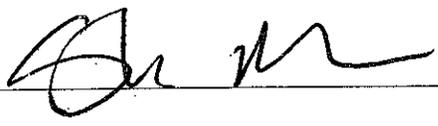
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR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

Checklist Preparer: Shaunn Mendrin, AICP

Date: 04/28/2011

Title: Senior Planner

City of Sunnyvale

Signature: 

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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com Project Description
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 http://qcode.us/codes/sunnyvale/view.php?topic=19&frames=off
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 http://qcode.us/codes/sunnyvale/view.php?topic=19-4-19_46&frames=off

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
10. Hazards and Hazardous Materials - 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 www.sunnyvaleplanning.com
11. Hazards and Hazardous Materials - 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. Hazards and Hazardous Materials - 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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com 19.42 Noise Ordinance http://qcode.us/codes/sunnyvale/view.php?topic=19&frames=off
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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com
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

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
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
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
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

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
25. Air Quality - Conflict with or obstruct implementation of the <u>BAAQMD</u> air quality plan? How close is the use to a major road, hwy. or freeway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale General Plan Map Sunnyvale Air Quality Sub-Element www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com Project Description
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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com

Further Discussion if "Less than Significant" with or without mitigation:

2. Aesthetics: The proposed 60 foot tall telecommunications tower will be located on the subject property in the southwest corner of the site. The proposed slimline will be visible from Innsbruck Drive due to the proposed location at the end of the driveway isle. The proposed antennas (12) will be grouped in three sectors and stacked within a 2'4" diameter antenna screen. The proposed screen will painted to reduce visibility. The proposed design and location of the proposed tower will not substantially degrade the visual character or quality of the site or surrounding area because the proposed design will conceal the antennas and the proposed structure is industrial in character. 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 may also introduce short-term and temporary additional sources of noise to the project area as a result emergency generator may be needed on an occasional basis. Temporary generators will be subject to applicable BAAQMD requirements. The project site is located within an industrial area near Highway 237. Surrounding uses are industrial and office. 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.

25. Air Quality: The project will introduce short-term and temporary additional sources of dust resulting from trenching and footing and pad construction. The projected construction period will not exceed 60 days and does not exceed BAAQMD thresholds. The project may also have temporary generators which will be subject to applicable BAAQMD requirements. The short length of time for construction and applicable BAAQMD regulations ensure that any air quality impacts are less than significant with no mitigation needed.

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.
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.

Transportation	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
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.

Further Discussion if "Less Than Significant" with or without mitigation: N/A

Responsible Division: Planning Division

Completed by: Shaunn Mendrin

Date: 04/28/2011

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 www.sunnyvaleplanning.com , 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 www.sunnyvaleplanning.com , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description
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 www.abag.ca.gov , 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, www.sunnyvaleplanning.com 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

Further Discussion if "Less Than Significant" with or without mitigation: N/A

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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.valleywater.org
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 www.sunnyvaleplanning.com
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 www.sunnyvaleplanning.com
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 www.valleywater.org City of Sunnyvale Stormwater Quality Best Management Practices (BMP) Guidance Manual for New and Redevelopment Projects www.sunnyvaleplanning.com
60. Utilities and Service Systems: Comply with federal, state, and local statutes 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 www.sunnyvaleplanning.com

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

Further Discussion if "Less Than Significant" with or without mitigation: N/A

Responsible Division: Planning Division

Completed by: Shaunn Mendrin

Date: 04/28/2011

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 www.sunnyvaleplanning.com
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

Further Discussion if "Less Than Significant" with or without mitigation: N/A

Responsible Division: Planning Division

Completed by: Shaunn Mendrin

Date: 04/28/2011

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 www.sunnyvaleplanning.com

Further Discussion if "Less Than Significant" with or without mitigation: N/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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com 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 www.sunnyvaleplanning.com Project Description

Further Discussion if "Less Than Significant" with or without mitigation: N/A

Responsible Division: Planning Division

Completed by: Shaunn Mendrin

Date: 04/28/2011

ENVIRONMENTAL CHECKLIST REFERENCE LIST

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

ENVIRONMENTAL CHECKLIST REFERENCE LIST

Proj

ATTACHMENT C

Page 21 of 22

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
- E. The Leaking Underground Petroleum Storage Tank List
www.geotracker.waterboards.ca.gov
- F. The Federal EPA Superfund List
www.epa.gov/region9/cleanup/california.html
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 for 2035
- 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
- AA. City of Sunnyvale Pedestrian and Bicycle Opportunities Studies
- BB. Valley Transportation Authority Operations Performance Report

Public Works:

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

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

ENVIRONMENTAL CHECKLIST REFERENCE LIST

ATTACHMENT C

Page 22 of 22

Miscellaneous Agency Plans:

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

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

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 02/2011
- D. Field Inspection

Other: None

DRAWING INDEX

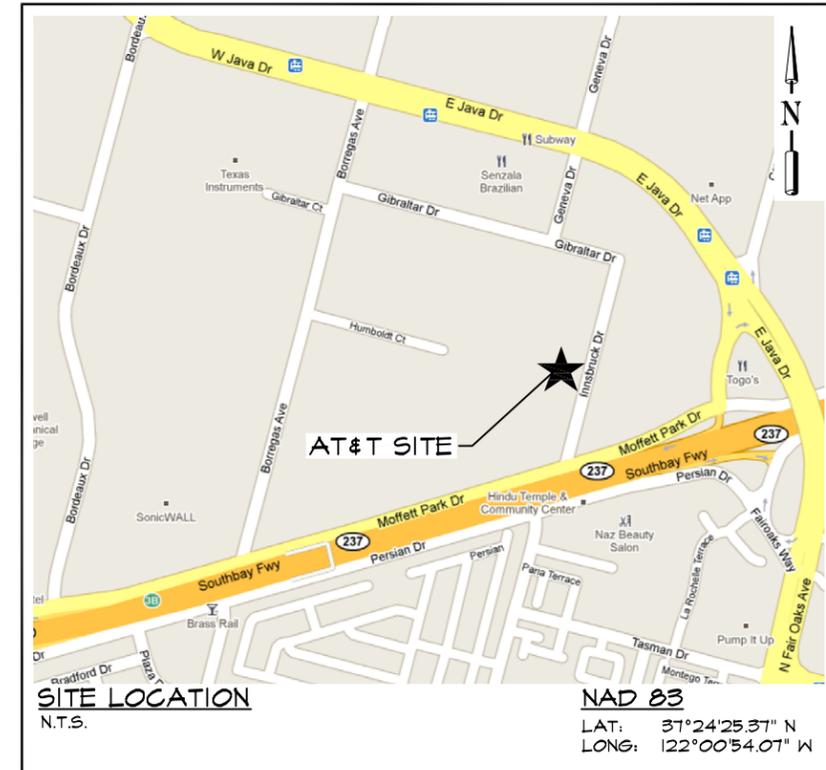
REV. NO.	DWG. NO.	DESCRIPTION
3	Z-1	COVER SHEET
	LS-1	TOPOGRAPHIC SURVEY
2	Z-2	SITE PLAN
2	Z-3	PARTIAL SITE PLAN
1	Z-3A	EQUIPMENT SHELTER LAYOUT
2	Z-4	EAST ELEVATION
2	Z-5	RF DETAILS



237 JAVA-SUNNYVALE CN4047

DIRECTIONS FROM AT&T'S PLEASANTON OFFICE:

- HEAD EAST ON ROSEWOOD DR
- MAKE A U-TURN 0.5 MI
- TURN RIGHT AT OWENS DR 0.1 MI
- TURN RIGHT AT HACIENDA DR 0.3 MI
- MERGE ONTO I-580 W VIA THE RAMP TO OAKLAND 1.8 MI
- TAKE THE EXIT ONTO I-680 S TOWARD SAN JOSE 17.4 MI
- TAKE THE MISSION BLVD/STATE ROUTE 262 EXIT TOWARD I-880 0.2 MI
- KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO MISSION BLVD/STATE ROUTE 262 1.0 MI
- TAKE THE RAMP ONTO I-880 S 4.0 MI
- TAKE THE EXIT ONTO CA-237 W TOWARD MOUNTAIN VIEW 4.7 MI
- EXIT ONTO CARIBBEAN DR 0.5 MI
- TURN LEFT AT MOFFETT PARK DR 1.0 MI
- TURN RIGHT AT INNSBRUCK DR
- ARRIVE AT 1225 INNSBRUCK DR, SUNNYVALE, CA 94089



SITE LOCATION
N.T.S.

NAD 83
LAT: 37°24'25.31" N
LONG: 122°00'54.07" W



PROJECT NO: 1059-020
DRAWN BY: A.D.
CHECKED BY: R.M.
CAD FILE: 1059-0201

PROJECT ADDRESS:

1225 INNSBRUCK DR
SUNNYVALE, CA 94089

APN:

110-34-003

DESCRIPTION OF WORK:

THE PROJECT CONSISTS OF THE INSTALLATION OF AN EQUIPMENT SHELTER AND THE INSTALLATION OF (9) 6'-4" PANEL ANTENNAS ON A 60'-0" SLIM POLE.

APPLICANT:

AT&T
4430 ROSEWOOD DRIVE, BLDG 3
PLEASANTON, CA 94588

PROPERTY OWNER:

T.B.D.

CODE INFORMATION:

ZONING CLASSIFICATION:	INDUSTRIAL
PROPOSED USE:	TELECOMMUNICATION FACILITY
BUILDING CODE:	2007 CALIFORNIA BUILDING CODE
ELECTRICAL CODE:	2007 CALIFORNIA ELECTRICAL CODE
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	TYPE I
PROJECT AREA:	±467 SQ.FT
STRUCTURE HEIGHT:	60'-0"± A.G.L. (T.O. SLIM POLE)
BUILDING AREA:	±22, 128 SQ. FT.
NUMBER OF PARKING SPACES:	86

PROJECT ENGINEER:

TRK ENGINEERING LTD.
#201 - 17688 66TH AVE
SURREY, BC V3S 7X1, CANADA
CONTACT: RANDY MARKS
TEL: (604) 574-6432
FAX: (604) 574-6431
TOLL FREE: 1-877-345-4045
EMAIL: mail@trkeng.com
WEB: www.trkeng.com

SURVEYOR:

CALVADA SURVEYING, INC.
411 JENKS CLR., SUITE 205
CORONA, CA 92880
PHONE: (951) 280-9960
FAX: (951) 280-9746

CONSTRUCTION MANAGER:

ERICSSON
CONTACT: SILVON GREEN
PHONE: (845)-978-4243
EMAIL: silvon.green@ericsson.com

SITE DEVELOPMENT:

CORTEL LLC
3265 BAKER ST
SAN FRANCISCO, CA 94122
CONTACT: ALEX ORNER
PHONE: (415) 601-3194

ZONING CONTACT:

CORTEL LLC
3265 BAKER ST
SAN FRANCISCO, CA 94122
CONTACT: JACQUELINE SMART
PHONE: (510) 435-9849

JURISDICTION:

SANTA CLARA COUNTY

ACCESSIBILITY:		
INSTALLATION IS UNMANNED AND FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR OR MAINTENANCE PURPOSES. INSTALLATION IS NOT FOR HUMAN HABITATION / PUBLIC ACCESS. A.D.A. ACCESSIBILITY IS NOT REQUIRED (2007 CBC, SECTION 1107B).		

APPROVAL LIST		
TITLE	SIGNATURE	DATE
CONSTRUCTION MANAGER		
SITE ACQUISITION		
ZONING MANAGER		
RF MANAGER		
OWNER		

SUBMITTALS

3	FEB 22/11	REVISED PER ERICSSON
2	JAN 14/11	REVISED PER ERICSSON
1	NOV 04/10	REVISED PER CITY
0	SEP 27/10	ISSUED FOR ZONING
A	AUG 26/10	ISSUED FOR REVIEW

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.



SITE
237 JAVA-SUNNYVALE
CN4047
1225 INNSBRUCK DR
SUNNYVALE, CA 94089

SHEET TITLE
COVER SHEET

SHEET NUMBER
Z-1

PREPARED FOR
at&t
4430 Rosewood Drive
Pleasanton, California 94588



#201 - 17688 66TH AVE
SURREY, BC V3S 7X1, CANADA
TEL: (604) 574-6432
FAX: (604) 574-6431
TOLL FREE: 1-877-345-4045
EMAIL: mail@trkeng.com
WEB: www.trkeng.com

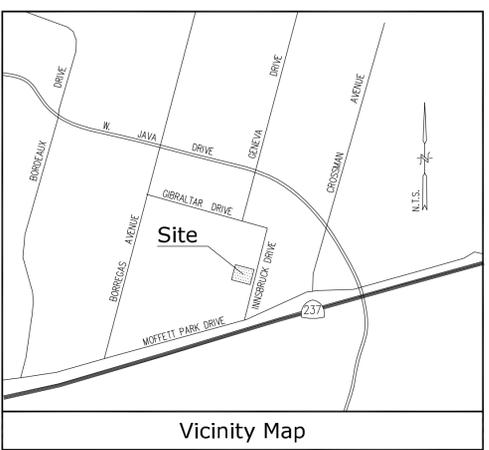
CN4047
287 JAVA-SUNNYVALE
1225 INNSBRUCK DRIVE
SUNNYVALE, CA 94089
SANTA CLARA COUNTY

CAL VADA
SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92780
Phone: 951-260-9980 Fax: 951-260-9746
Toll Free: 800-CALVADA www.calvada.com
JOB NO. 10630

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
8/23/10		SUBMITTAL	HN
1	01/31/11	TITLE REPORT / FINAL	RAS

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NUMBER
LS-1
SHEET 1 OF 1



Vicinity Map

Title Report

PREPARED BY: FIRST AMERICAN TITLE COMPANY
ORDER NO.: 0131-6176910a
DATED: AUGUST 17, 2010

Legal Description

PARCEL 6 OF PARCEL MAP RECORDED, IN THE CITY OF SUNNYVALE, COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, FILED IN BOOK 405, PAGE 49, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING A STRIP OF LAND, 12.50 FEET WIDE, LYING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

Assessor's Parcel No.

110-34-003

Easements

- ⑥ EASEMENT FOR PUBLIC UTILITIES RECORDED NOVEMBER 16, 1976, AS INST. NO. 5470975 IN BOOK C414, PAGE 346, O.R. (PLOTTED HEREON)
- ⑦ EASEMENT FOR PUBLIC UTILITIES RECORDED NOVEMBER 16, 1976 AS INST. NO. 5470976 IN BOOK C414, PAGE 383, O.R. (PLOTTED HEREON)

Access Route

THAT PORTION OF PARCEL 6 OF PARCEL MAP RECORDED, IN THE CITY OF SUNNYVALE, COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, FILED IN BOOK 405, PAGE 49, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING A STRIP OF LAND, 12.50 FEET WIDE, LYING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE SOUTHEAST CORNER OF SAID PARCEL 6, SAID POINT BEING ON THE WESTERLY LINE OF INNSBRUCK DRIVE AS SHOWN ON SAID MAP; THENCE N15°43'39"E, ALONG SAID WESTERLY LINE, 33.23 FEET TO THE POINT OF BEGINNING; THENCE N74°16'21"W, 222.19 FEET; THENCE S61°30'44"W, 26.25 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A" AND THE END OF SAID STRIP.

Lease Area

BEGINNING AT POINT "A" AS DESCRIBED ABOVE; THENCE S15°43'39"W, 13.42 FEET; THENCE N74°16'21"W, 22.50 FEET; THENCE N15°43'39"E, 22.67 FEET; THENCE S74°16'21"E, 13.50 FEET; THENCE S28°29'16"E, 12.91 FEET TO THE POINT OF BEGINNING.
CONTAINING 468.5 SQUARE FEET, MORE OR LESS.

Date of Survey

AUGUST 20, 2010

Geographic Coordinates at Proposed Monopole

1983 DATUM: LATITUDE 37° 24' 25.37" N LONGITUDE 122° 00' 54.07" W
ELEVATION = 10.7 FEET ABOVE MEAN SEA LEVEL

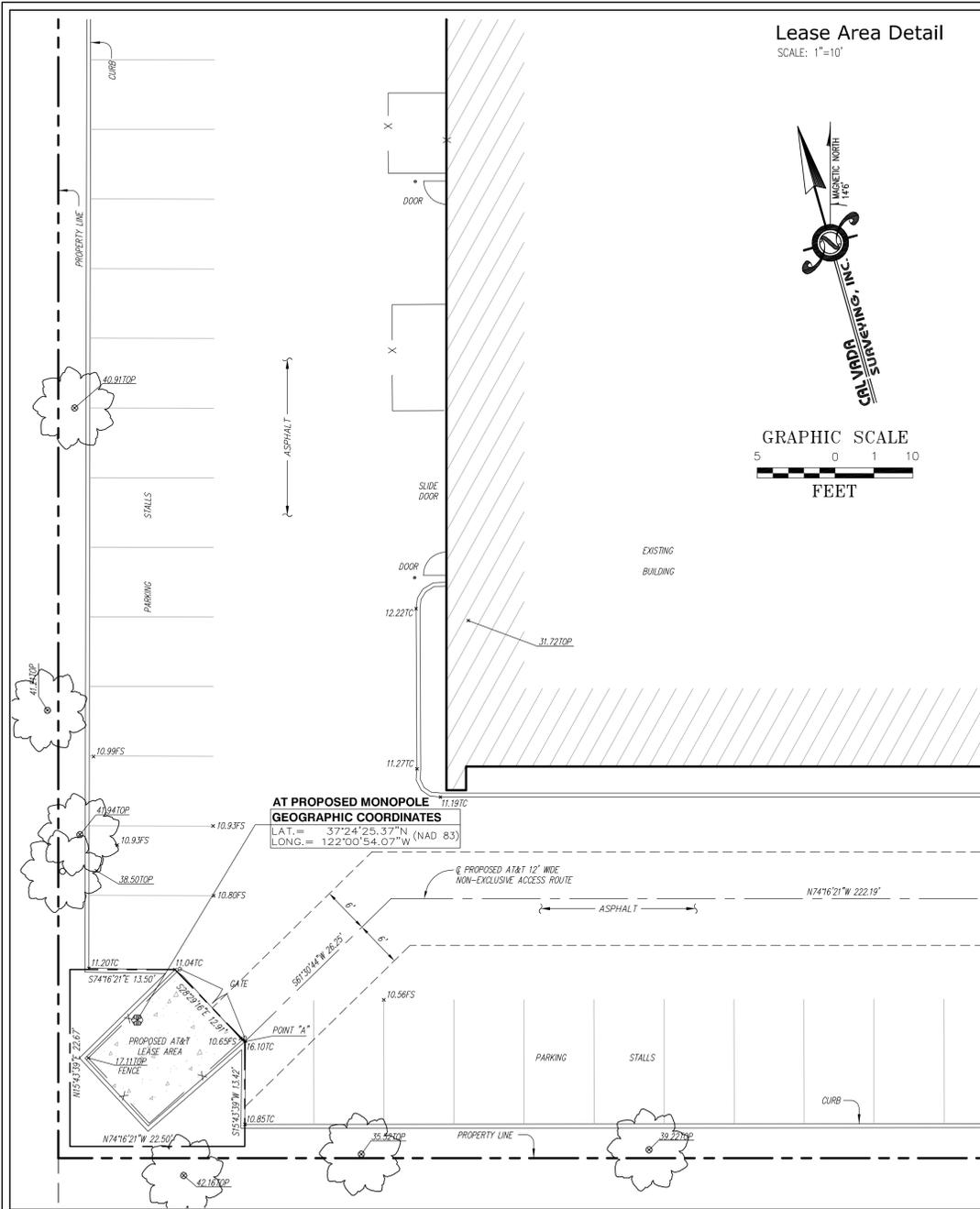
CERTIFICATION:
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 15 FEET HORIZONTALLY AND THAT THE ELEVATIONS SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 3 FEET VERTICALLY. THE HORIZONTAL DATUM (GEOGRAPHIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS (") TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATIONS) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

Basis of Bearings

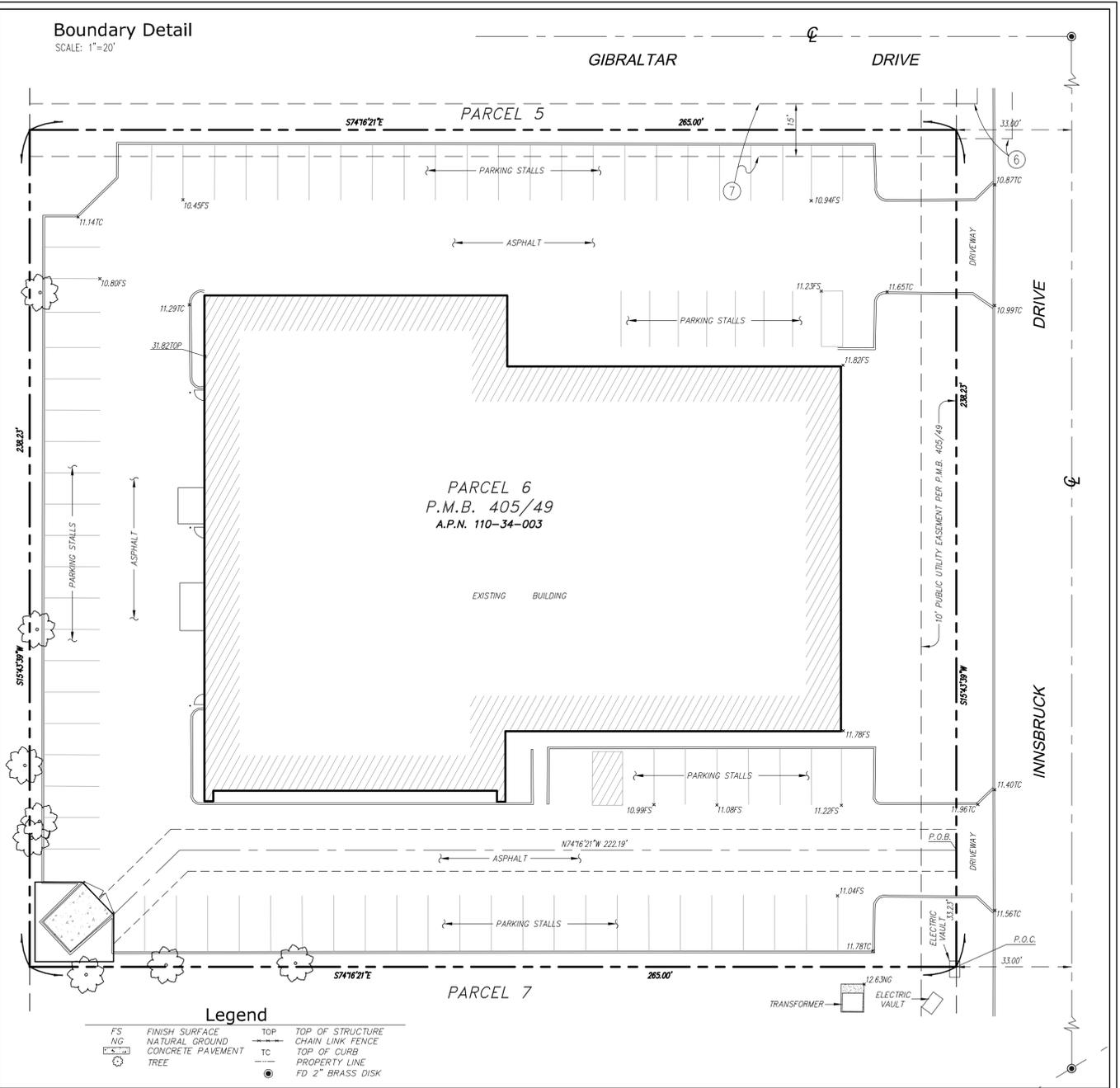
THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 3.

Bench Mark

THE CALIFORNIA SPATIAL REFERENCE CENTER C.O.R.S "MONB", ELEVATION = 2569.07 FEET (NAVD 88).



Lease Area Detail
SCALE: 1"=10'



Boundary Detail
SCALE: 1"=20'

Legend

FS	FINISH SURFACE	TOP	TOP OF STRUCTURE
NG	NATURAL GROUND	CL	CHAIN LINK FENCE
CP	CONCRETE PAVEMENT	TC	TOP OF CURB
T	TREE	PL	PROPERTY LINE
		FD	2" BRASS DISK

NOTES:

1. SITE PLAN INFORMATION WAS OBTAINED FROM A DRAWING PREPARED BY CALYADA SURVEYING, INC., DATED AUGUST 23, 2010.

LEGAL DESCRIPTION:

PARCEL 6 OF PARCEL MAP RECORDED, IN THE CITY OF SUNNYVALE, COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, FILED IN BOOK 405, PAGE 49, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.



PROJECT NO: 1054-020

DRAWN BY: A.D.

CHECKED BY: R.M.

CAD FILE: 1054-020Z2

SUBMITTALS

2	FEB 22/11	REVISED PER ERICSSON
1	NOV 04/10	REVISED PER CITY
0	SEP 27/10	ISSUED FOR ZONING
A	AUG 26/10	ISSUED FOR REVIEW

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.

A/E SEAL

SITE

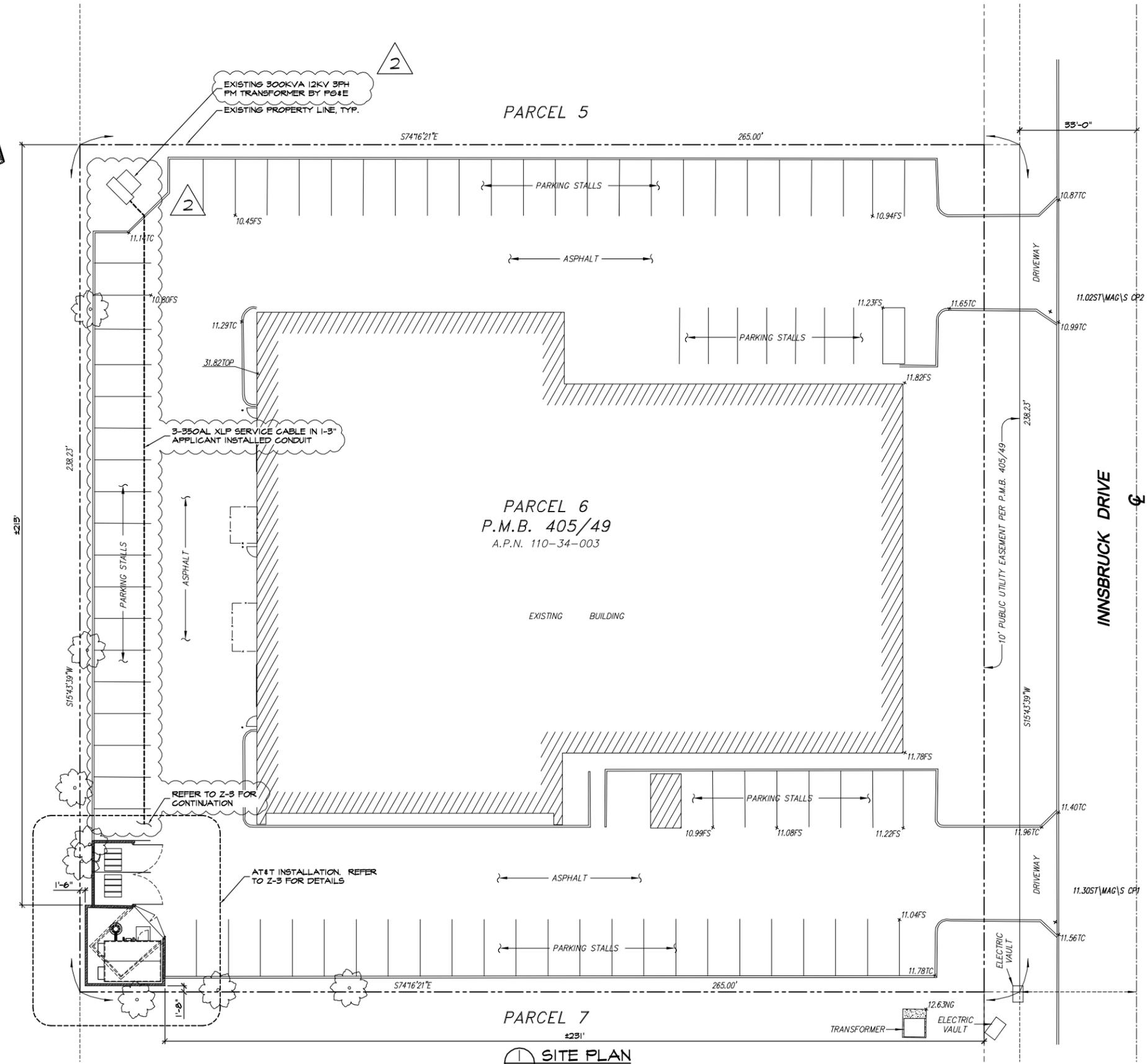
237 JAVA-SUNNYVALE
CN4047
1225 INNSBRUCK DR
SUNNYVALE, CA 94089

SHEET TITLE

SITE PLAN

SHEET NUMBER

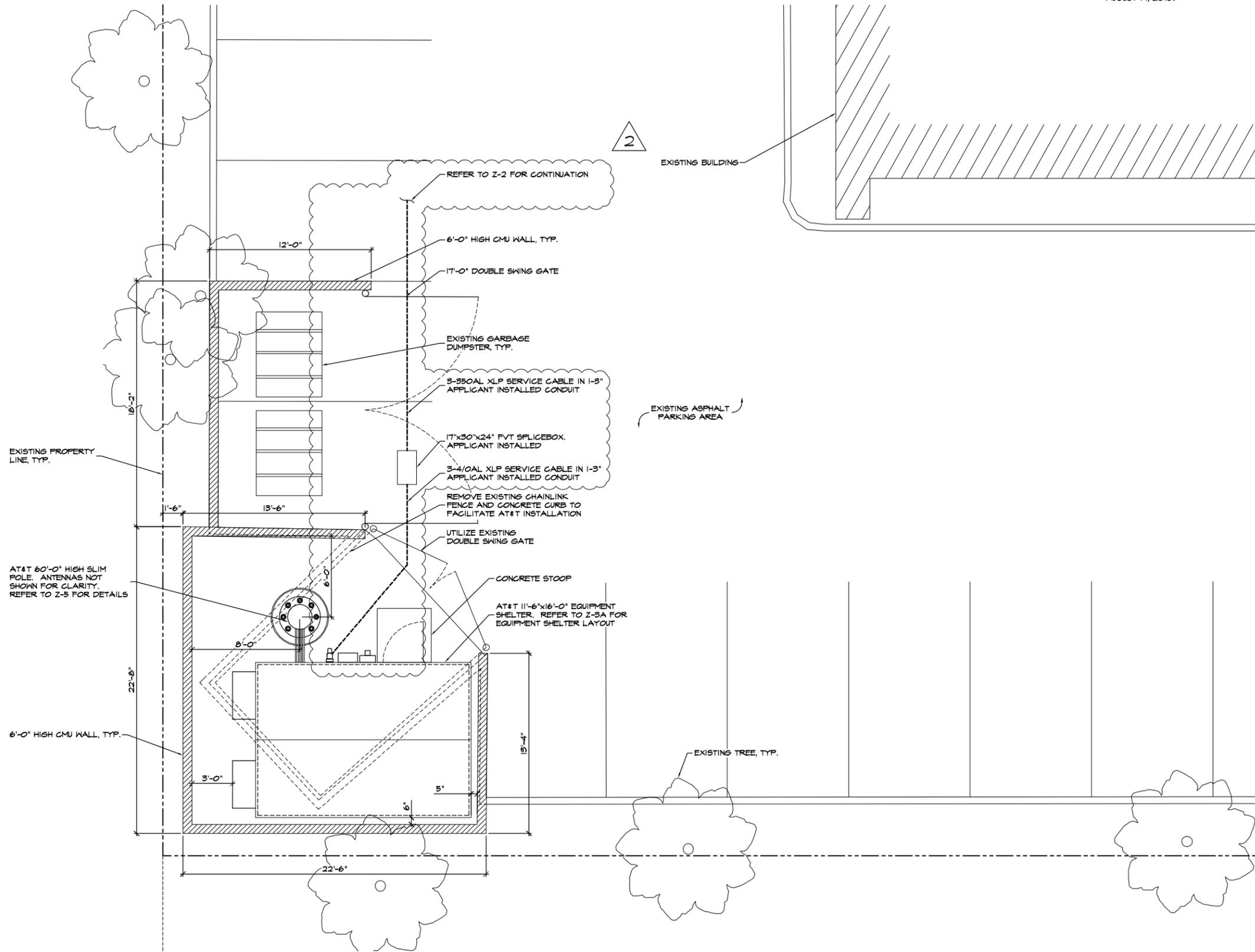
Z-2



SITE PLAN
1/32" = 1'-0"
0 8' 16' 32'

NOTES:

1. COMPOUND INFORMATION WAS OBTAINED FROM SITE MEASUREMENTS TAKEN BY TRK ENGINEERING LTD. DATED AUGUST 19, 2010.



⊕ PARTIAL SITE PLAN
1/8"=1'-0"
0 1' 2' 4'



PROJECT NO:	1059-020
DRAWN BY:	A.D.
CHECKED BY:	R.M.
CAD FILE:	1059-02023

SUBMITTALS	
2	FEB 22/11 REVISED PER ERICSSON
1	NOV 04/10 REVISED PER CITY
0	SEP 27/10 ISSUED FOR ZONING
A	AUG 26/10 ISSUED FOR REVIEW

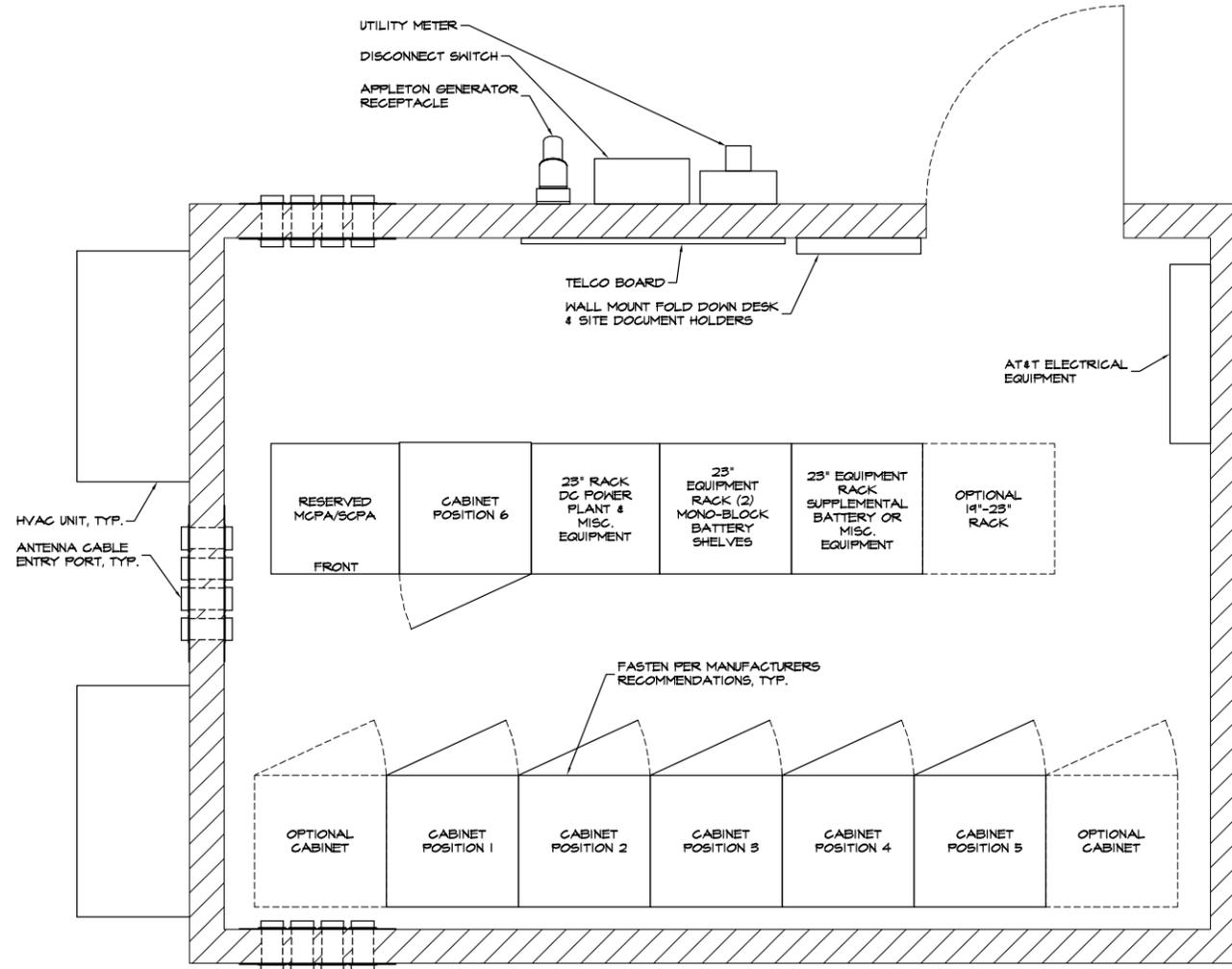
THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.

A&E SEAL

SITE
237 JAVA-SUNNYVALE
CN4047
1225 INNSBRUCK DR
SUNNYVALE, CA 94089

SHEET TITLE
PARTIAL SITE PLAN

SHEET NUMBER
Z-3




EQUIPMENT SHELTER LAYOUT
 3/8"=1'-0"




PROJECT NO: 1059-020

DRAWN BY: A.D.

CHECKED BY: R.M.

CAD FILE: 1059-02023A

SUBMITTALS

1 NOV 04/10 REVISED PER CITY

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.

A&E SEAL

SITE

237 JAVA-SUNNYVALE
 CN4047
 1225 INNSBRUCK DR
 SUNNYVALE, CA 94089

SHEET TITLE

EQUIPMENT SHELTER
 LAYOUT

SHEET NUMBER

Z-3A



PROJECT NO: 1054-020
DRAWN BY: A.D.
CHECKED BY: R.M.
CAD FILE: 1054-020Z4

SUBMITTALS

2	FEB 22/11	REVISED PER ERICSSON
1	JAN 14/11	REVISED PER ERICSSON
0	SEP 27/10	ISSUED FOR ZONING
A	AUG 26/10	ISSUED FOR REVIEW

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.

A/E SEAL

SITE

237 JAVA-SUNNYVALE
CN4047
1225 INNSBRUCK DR
SUNNYVALE, CA 94089

SHEET TITLE

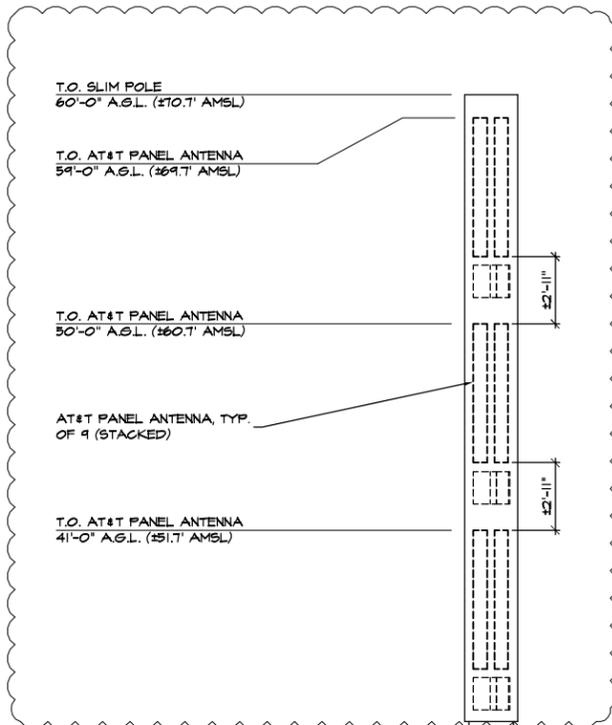
EAST ELEVATION

SHEET NUMBER

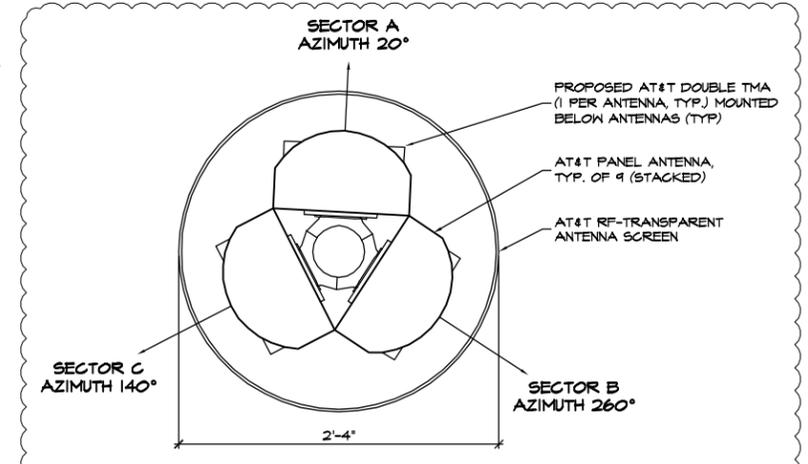
Z-4

NOTES:

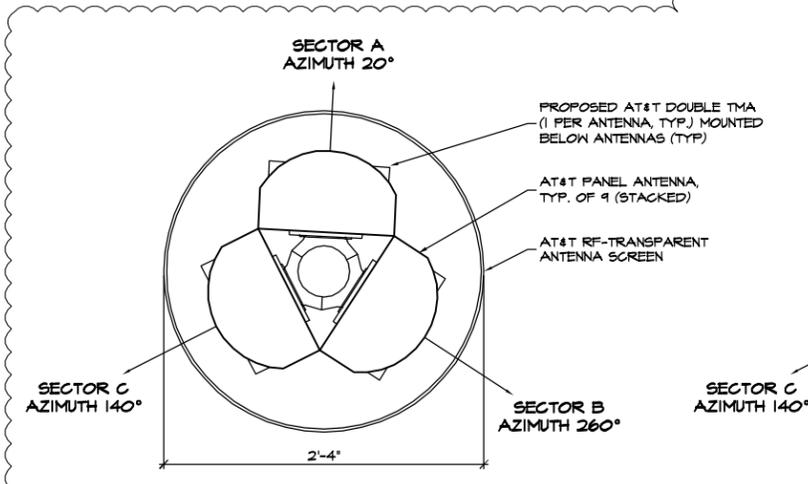
1. ELEVATION IS DIAGRAMMATIC ONLY.



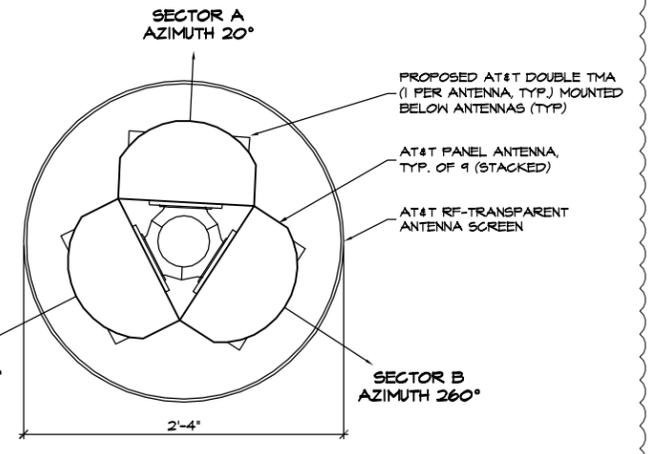
2



ANTENNA LAYOUT AT
2 59'-0" A.G.L. (LTE)
3/4"=1'-0"



ANTENNA LAYOUT AT
4 41'-0" A.G.L. (GSM)
3/4"=1'-0"



ANTENNA LAYOUT AT
3 50'-0" A.G.L. (UMTS)
3/4"=1'-0"



AT&T 60'-0" HIGH SLIM POLE

AT&T 11'-6"x16'-0" EQUIPMENT SHELTER. REFER TO Z-4 FOR EQUIPMENT SHELTER LAYOUT

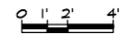
6'-0" HIGH CMU WALL, TYP.

EXISTING GARBAGE DUMPSTER, TYP.

17'-0" DOUBLE SWING GATE

GRADE
0'-0" (10.7' AMSL)

1 EAST ELEVATION
1/8"=1'-0"





PROJECT NO: 1054-020

DRAWN BY: A.D.

CHECKED BY: R.M.

CAD FILE: 1054-02025

SUBMITTALS	
2	FEB 22/11 REVISED PER ERICSSON
1	JAN 14/11 REVISED PER ERICSSON
0	SEP 27/10 ISSUED FOR ZONING
A	AUG 26/10 ISSUED FOR REVIEW

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A/E SEAL

SITE
237 JAVA-SUNNYVALE
CN4047
1225 INNSBRUCK DR
SUNNYVALE, CA 94089

SHEET TITLE
RF DETAILS

SHEET NUMBER
Z-5

SECTOR	ANTENNA POSITION	2 ANTENNA TYPE		AZIMUTH (TN)	HEIGHT A.G.L. (APPROX.)	2 ANTENNA CABLE TYPE	CABLE LENGTH (APPROX.)
A (ALPHA)	A1	ANDREW DBXNH-6565B-R2M	NEW	20°	54'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	A2	ANDREW DBXNH-6565B-R2M	NEW	20°	50'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	A3	ANDREW DBXNH-6565B-R2M	NEW	20°	41'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.

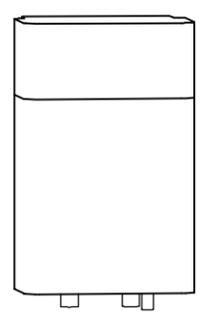
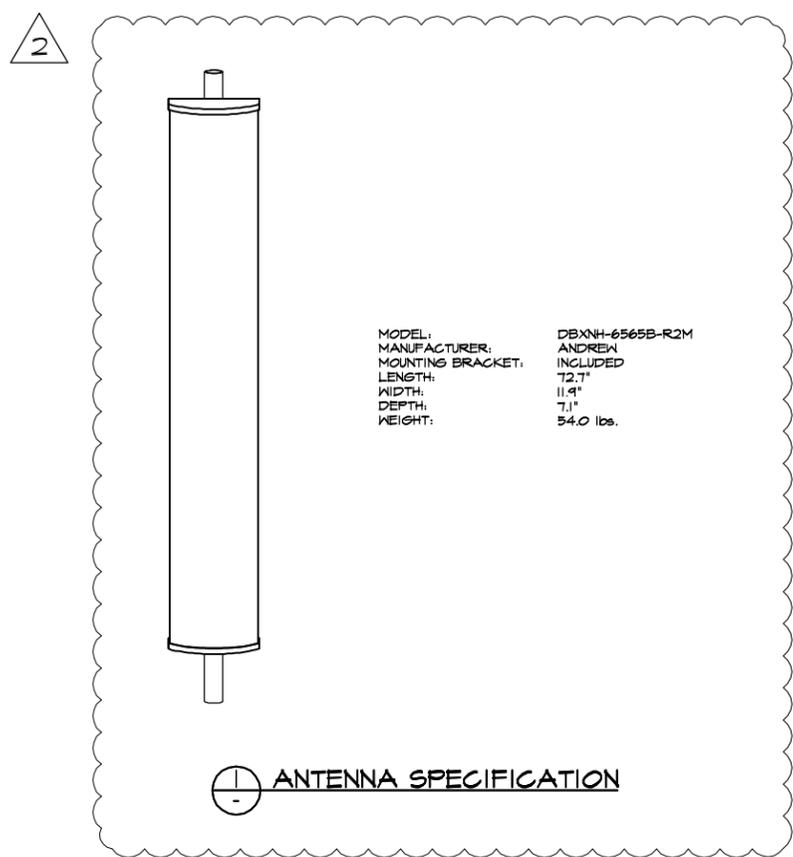
SECTOR	ANTENNA POSITION	2 ANTENNA TYPE		AZIMUTH (TN)	HEIGHT A.G.L. (APPROX.)	2 ANTENNA CABLE TYPE	CABLE LENGTH (APPROX.)
B (BETA)	B1	ANDREW DBXNH-6565B-R2M	NEW	260°	54'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	B2	ANDREW DBXNH-6565B-R2M	NEW	260°	50'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	B3	ANDREW DBXNH-6565B-R2M	NEW	260°	41'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.

SECTOR	ANTENNA POSITION	2 ANTENNA TYPE		AZIMUTH (TN)	HEIGHT A.G.L. (APPROX.)	2 ANTENNA CABLE TYPE	CABLE LENGTH (APPROX.)
C (GAMMA)	G1	ANDREW DBXNH-6565B-R2M	NEW	140°	54'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	G2	ANDREW DBXNH-6565B-R2M	NEW	140°	50'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.
	G3	ANDREW DBXNH-6565B-R2M	NEW	140°	41'-0"± (TOP)	2 NEW 7/8" AVA5	T.B.D.

NOTES:

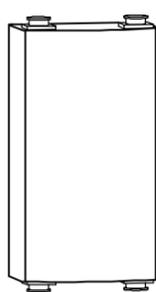
1. ALL COAXIAL CABLE CONNECTIONS ARE TO BE WEATHERPROOFED AS PER MANUFACTURER'S RECOMMENDATIONS OR AT&T CONSTRUCTION SPECIFICATIONS (WHICHEVER IS GREATER).
2. CONTRACTOR TO PROVIDE DRIP LOOPS IN CABLES AND JUMPERS WHERE NECESSARY.
3. ALL COAXIAL CABLES TO BE LABELED AS PER AT&T CONSTRUCTION SPECIFICATIONS.
4. COAXIAL CABLES ARE TO BE SUPPORTED AT 3'-0" O/C MAX. CONTRACTOR SHALL PROVIDE SUPPORTS AS REQUIRED.

RF INFORMATION OBTAINED FROM RFDS REV V1.4



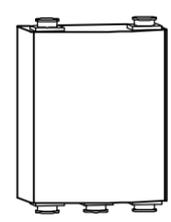
MODEL: RRUI
MANUFACTURER: ERICSSON
MOUNTING BRACKET: INCLUDED
LENGTH: 23.62"
WIDTH: 15.40"
DEPTH: 11.50"
WEIGHT: 63.93 lbs

2 RRUI SPECIFICATIONS



MODEL: KRY 112 84/4
MANUFACTURER: ERICSSON
MOUNTING BRACKET: INCLUDED
LENGTH: 11.0"
WIDTH: 6.1"
DEPTH: 3.9"
WEIGHT: 15.4 lbs

3 DOUBLE TMA SPECIFICATIONS



MODEL: TTAH-60B1111-001
MANUFACTURER: POWERHAVE
MOUNTING BRACKET: INCLUDED
LENGTH: 7.6"
WIDTH: 5.9"
DEPTH: 2.0"
WEIGHT: 7.0 lbs

4 LTE TMA SPECIFICATIONS



3/9/11

City of Sunnyvale
Attn: Planning Department
456 West Olive Ave,
Sunnyvale, CA 94086

RE: Project# 2010- 7706 ---1225 Innsbruck Drive. (CN4047)
Description: Telecommunications facility for a new 60' monopole with 9 antennas.

Alternative analysis

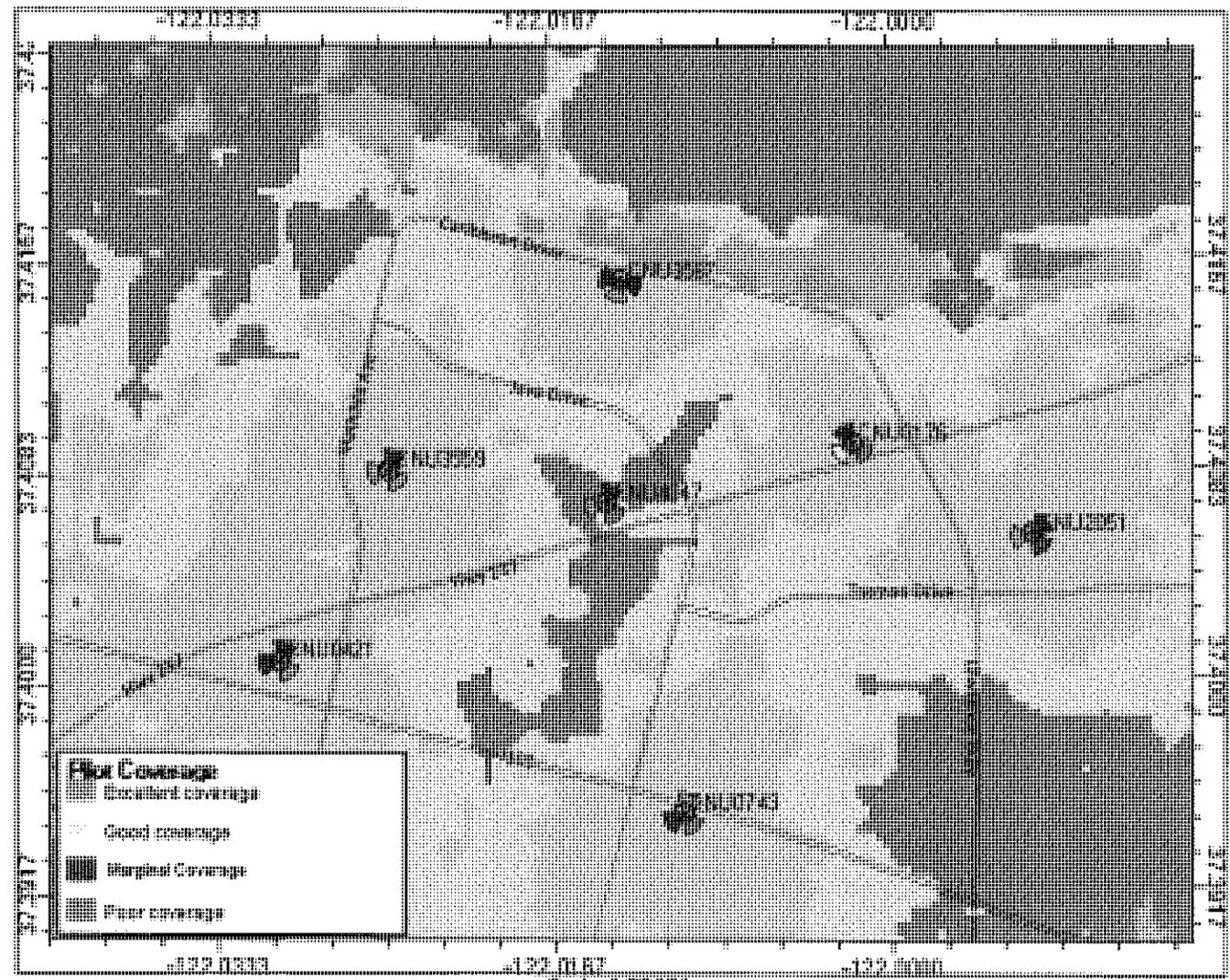
To begin the search for a potential site, AT&T first identifies the area in need of coverage. AT&T's Radio Frequency (RF) Engineers determine the location in which a site must be located and the height at which the antennas must be placed in order to provide the necessary coverage to the area. All AT&T facilities must have clear line of site and must not be obstructed by existing trees, building, or topography.

The target objective of this site is to improve and provide additional coverage along Persian Dr. to Paracor Medical Inc. and Telsima Corp. Also to areas between Fair Oaks, Java Dr., Boregas Ave and Toyama Dr. This location on Innsbruck Dr. is the best location in terms of meeting the technological needs of AT&T and the design screens the antennas from public view.

Regarding the alternate location suggested by Planning at the corner of Borregas Ave and E. Moffett Park Drive, our RF engineer looked at that location however the building does not provide the height needed to meet the desired coverage objective. RF desires a 57' rad center for the antennas and that building being at approximately 25' (12' per story) even with a 10' extension would only provide a height of 35' to the top of the antenna.



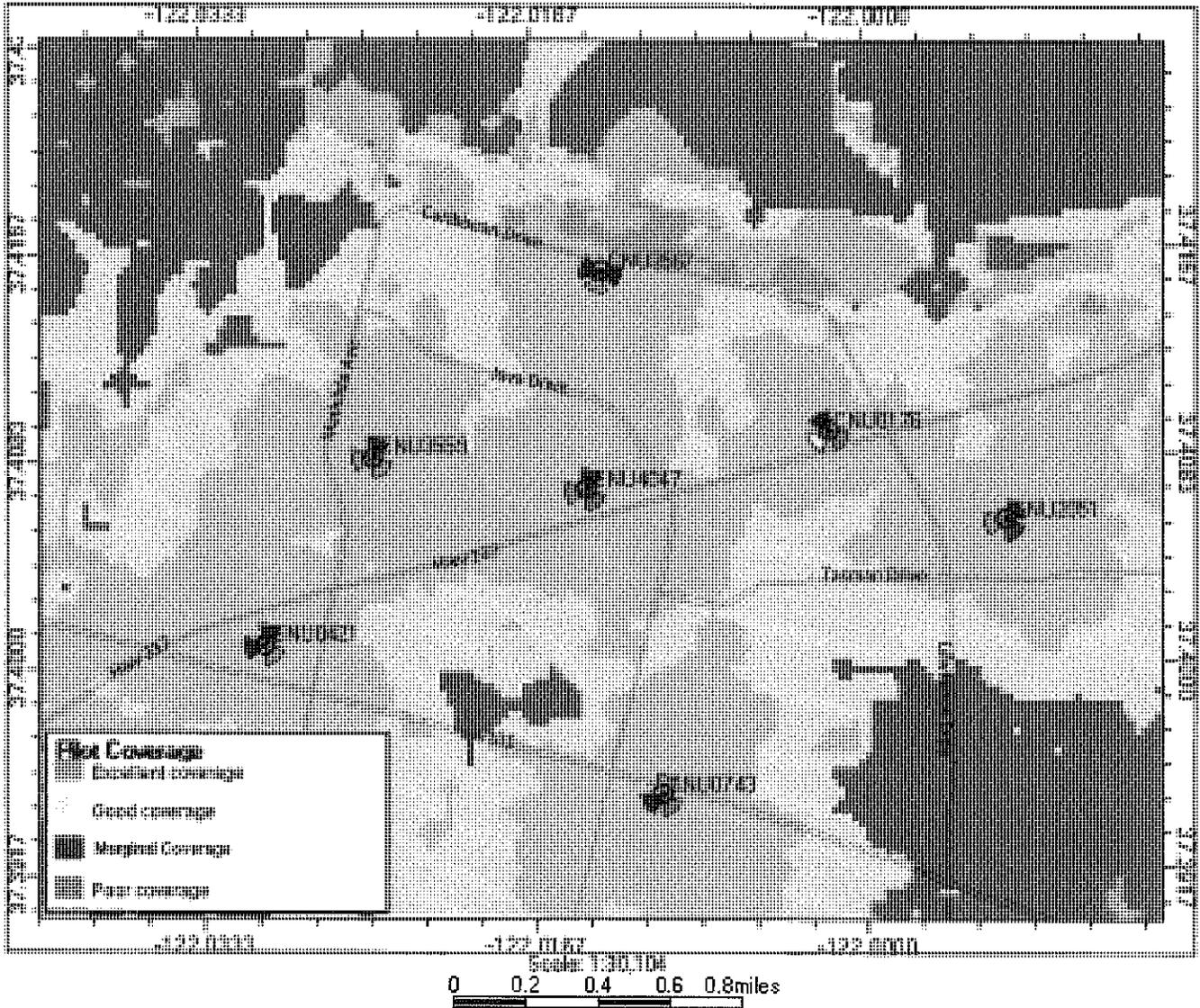
City of Sunnyvale

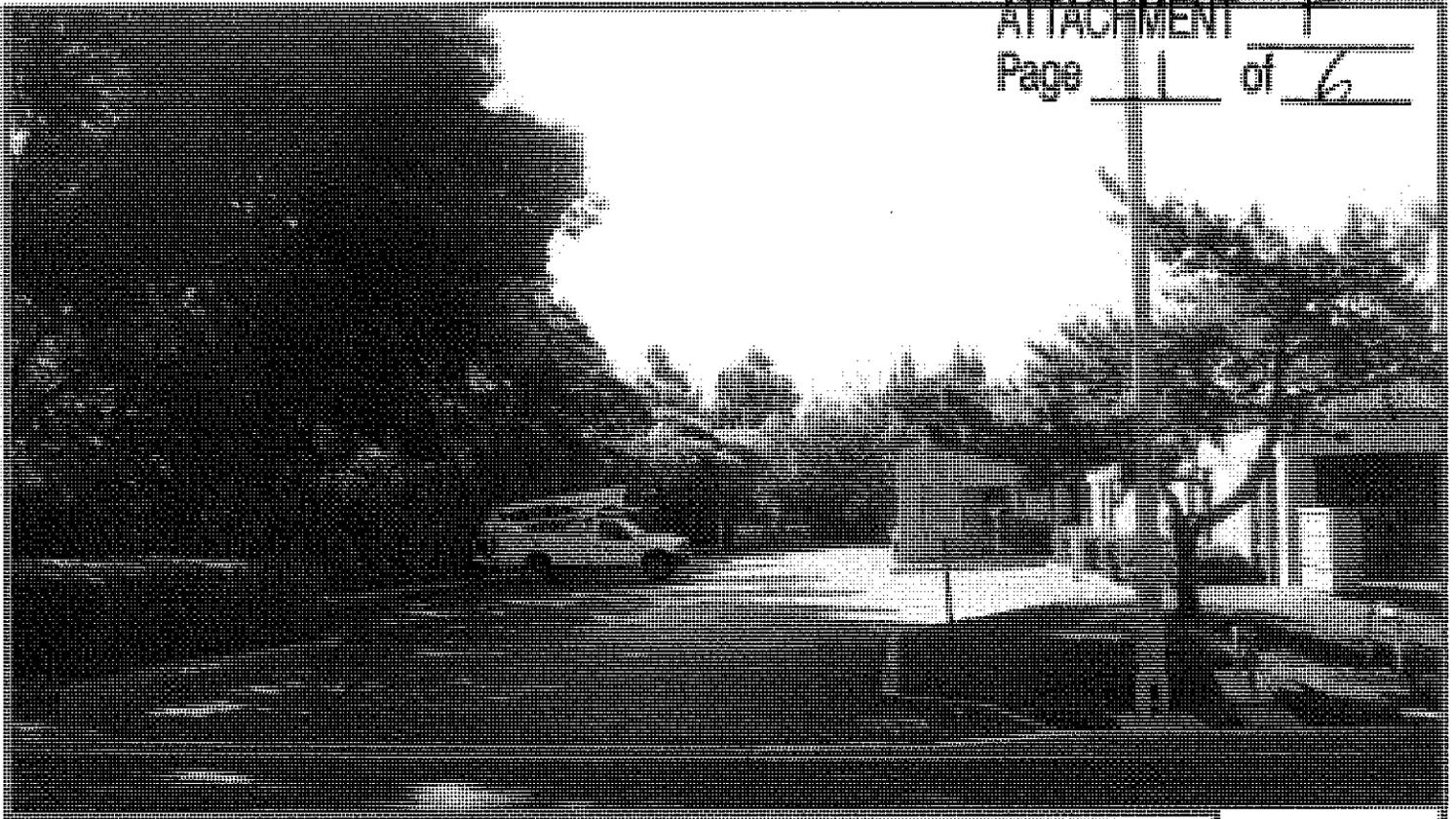


Scale: 1:30,104
0 0.2 0.4 0.6 0.8 miles



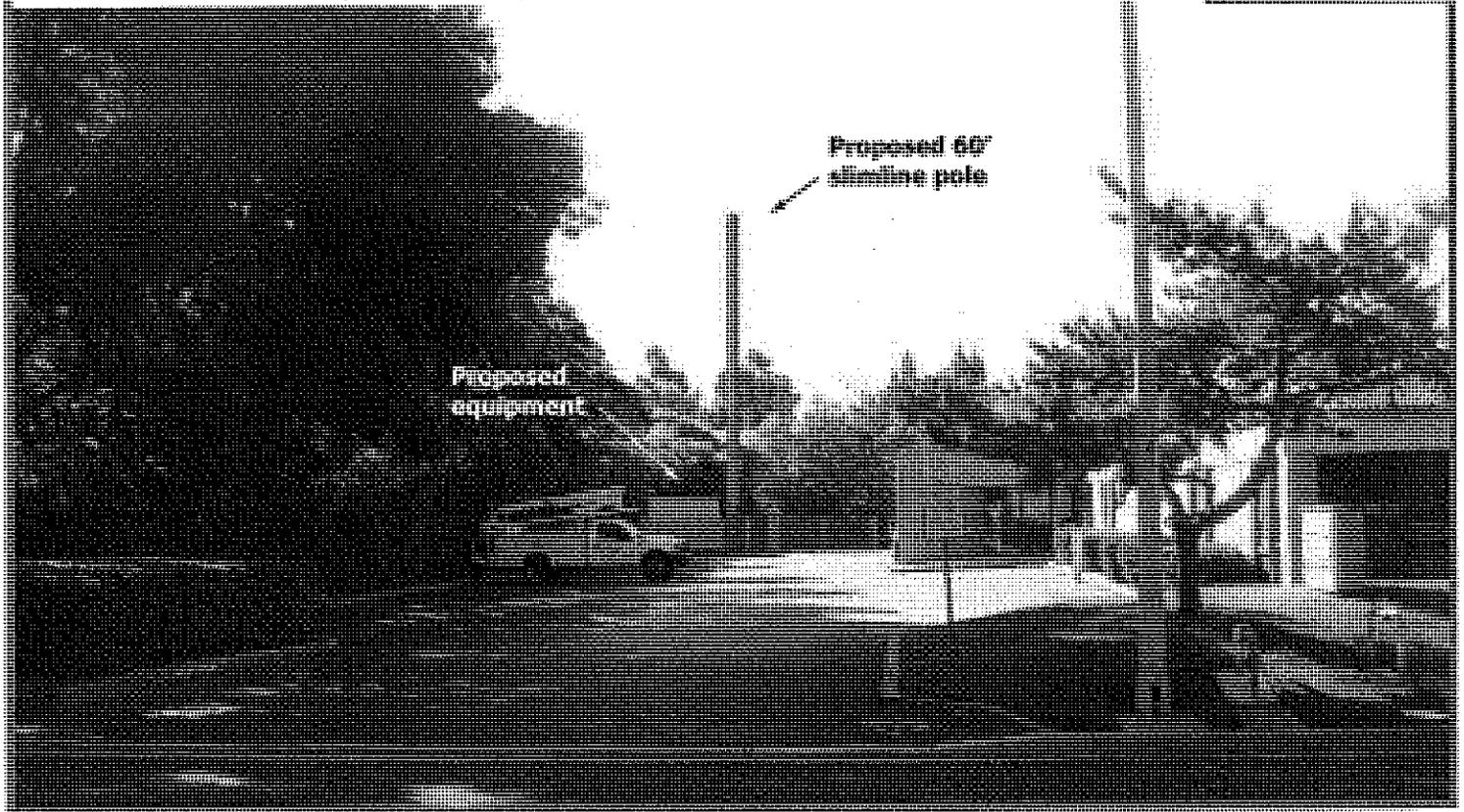
City of Sunnyvale





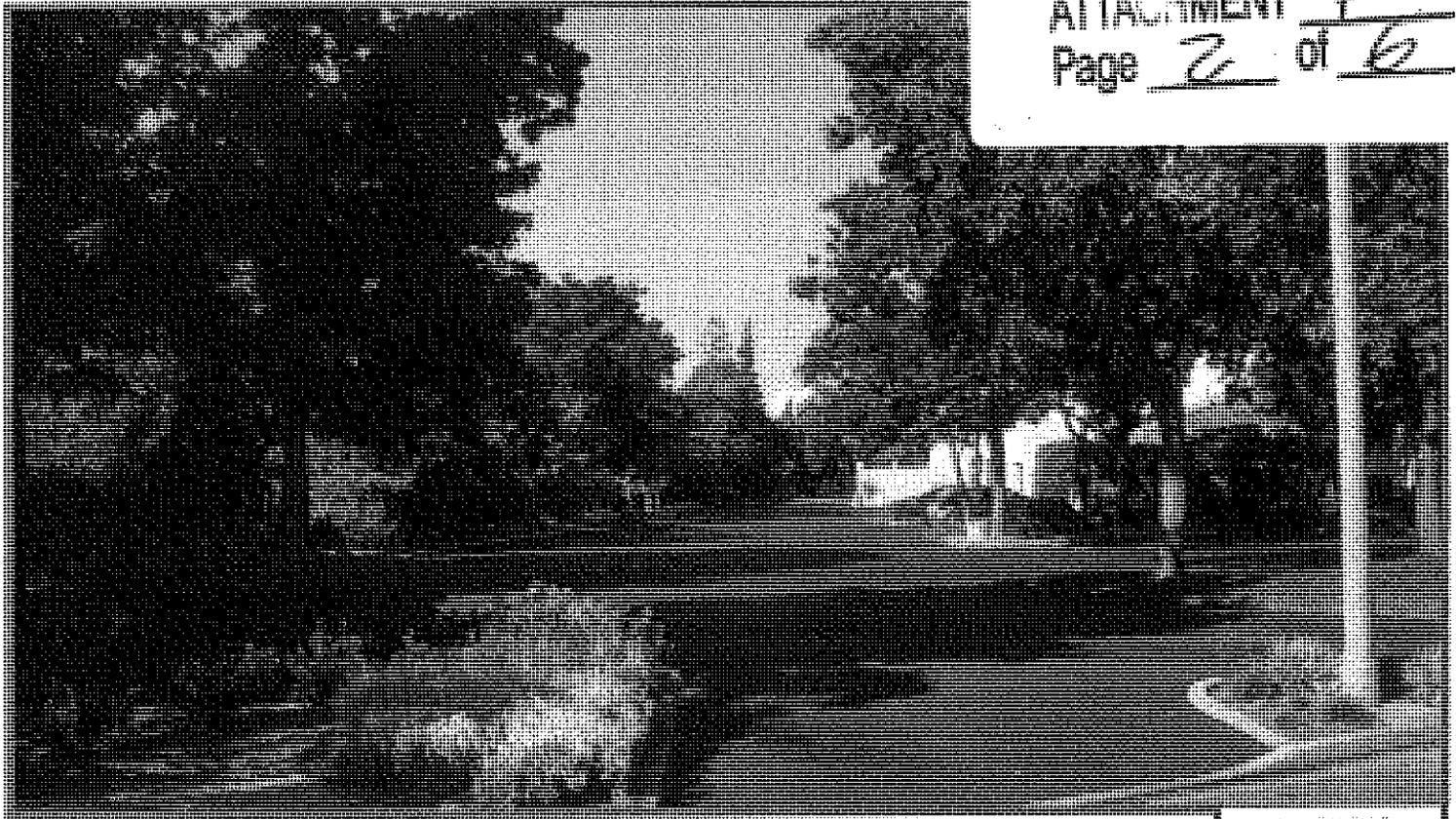
EXISTING

PROPOSED: 60' Slimline pole containing 9 antennas as seen facing west from Innsbruck Rd



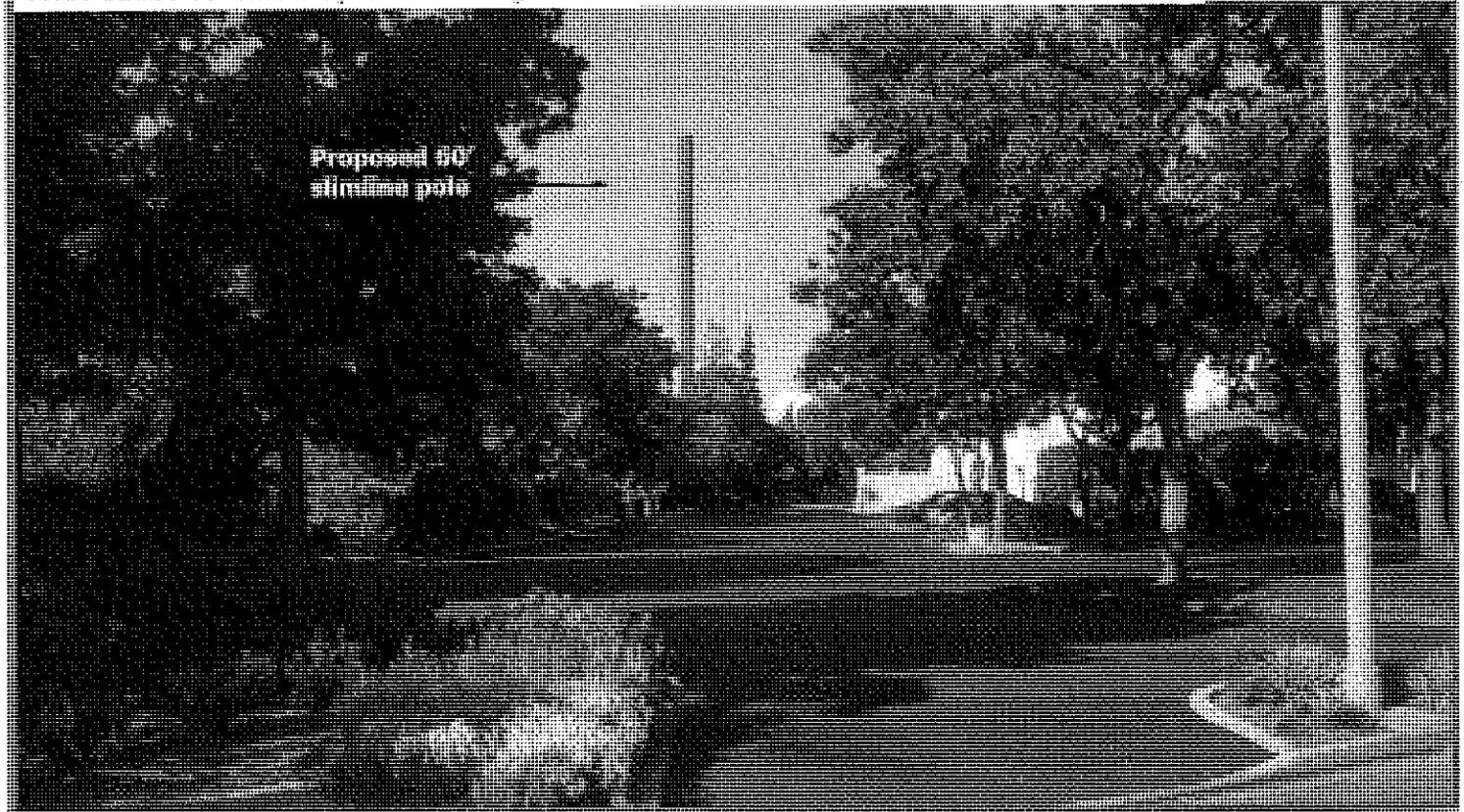
Proposed 60'
slimline pole

Proposed
equipment

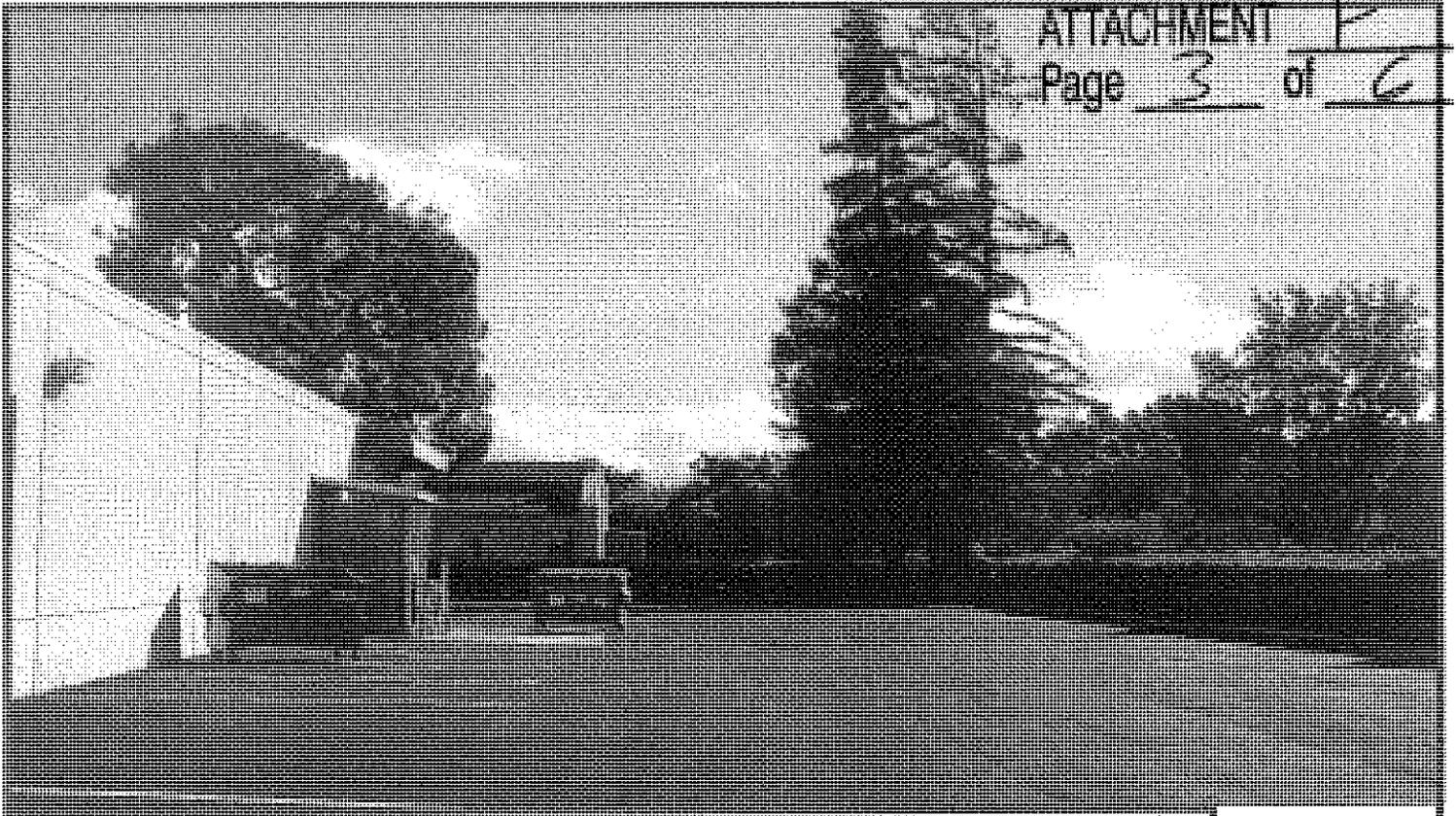


EXISTING

PROPOSED: 60' Slimline pole containing 9 antennas as seen facing north from Moffett Park Dr

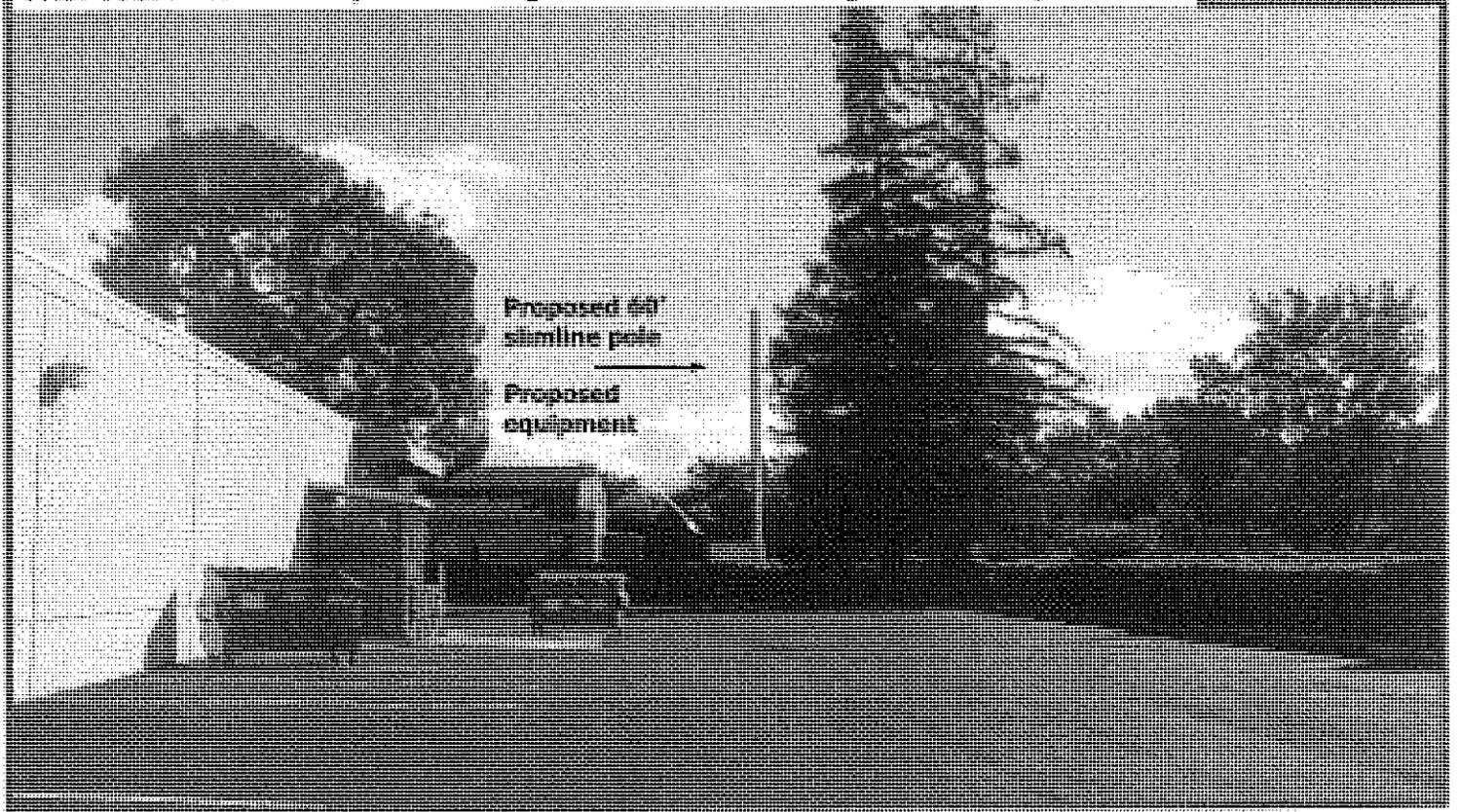


Proposed 60'
slimline pole



EXISTING

PROPOSED: 60' Slimline pole containing 9 antennas as seen facing south from adjacent lot





View 1-2

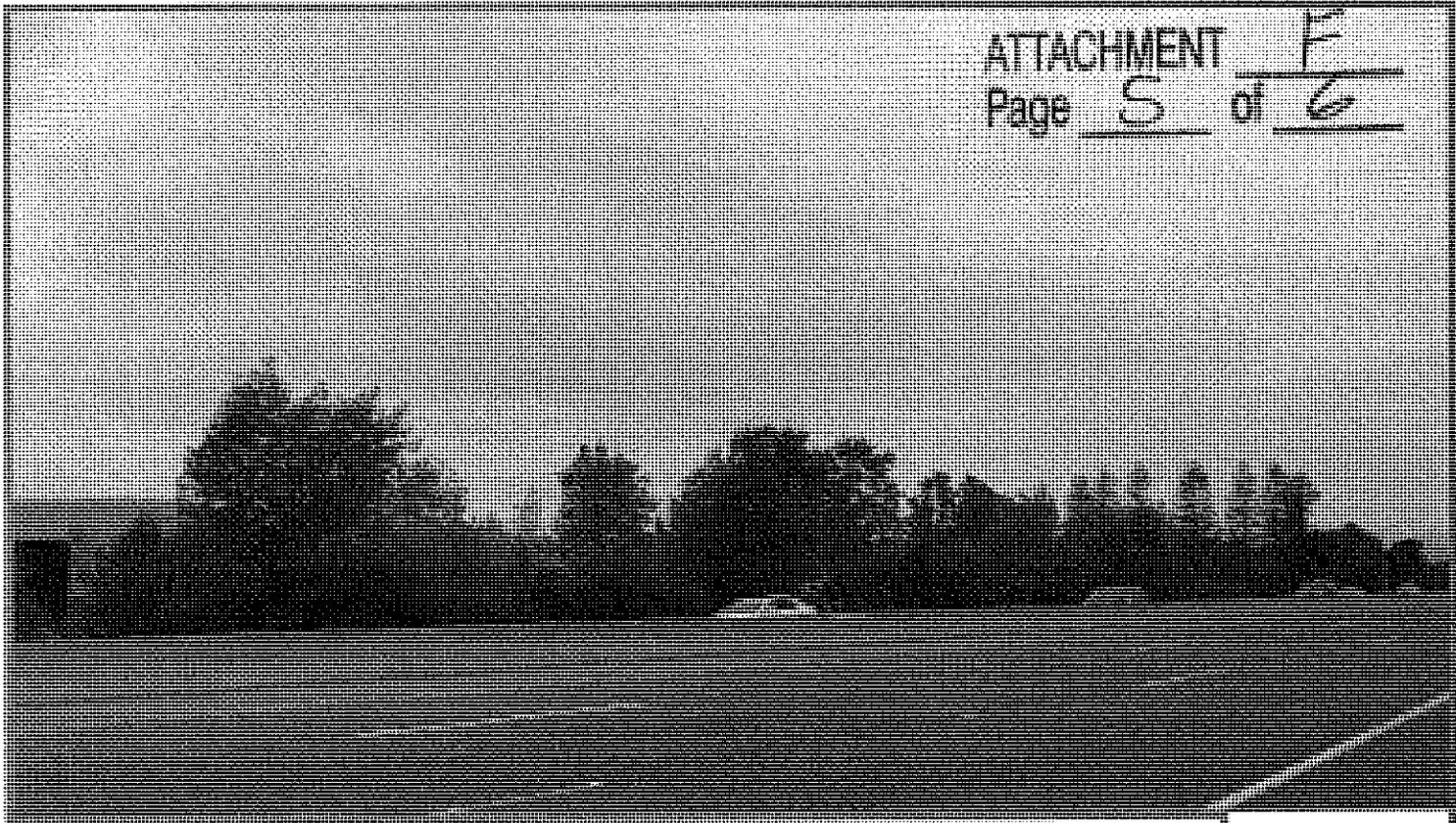


124 Waverly Place #211
San Francisco, CA 94108
www.thecypresslab.com
info@thecypresslab.com

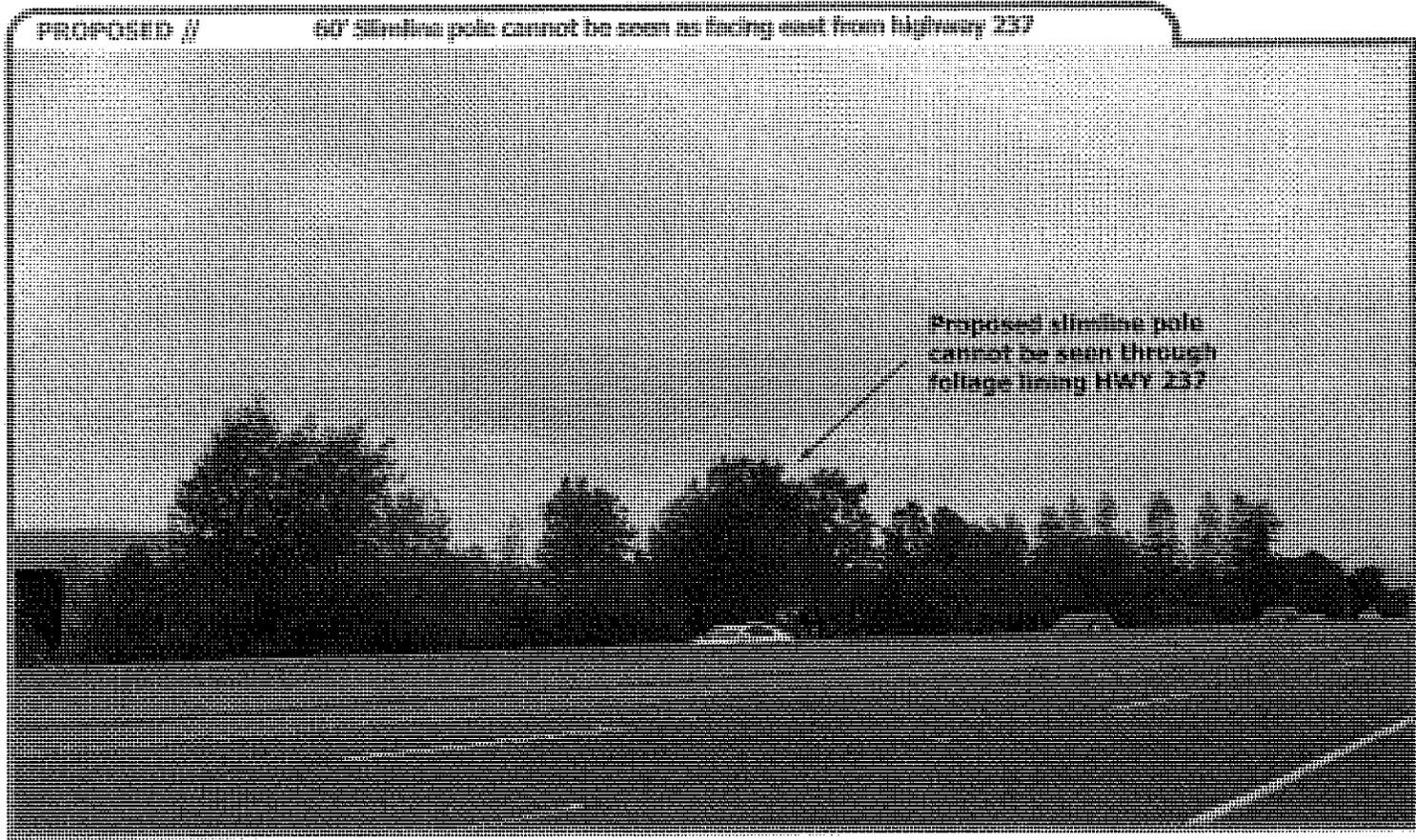
237
View Chart



CN4047
1225 Innsbruck Rd
Sunnyvale CA 94089



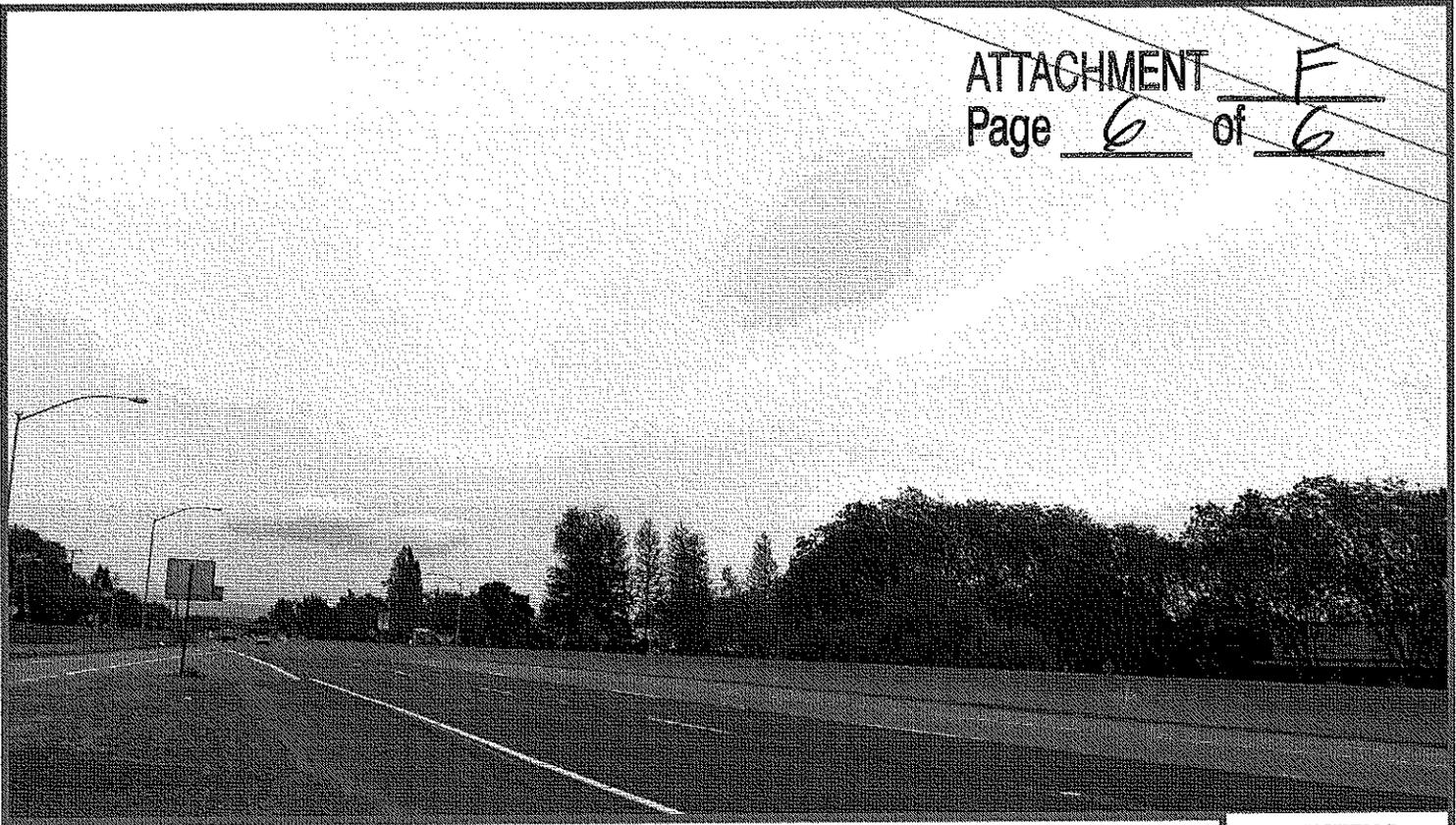
EXISTING



PROPOSED //

60' Slimline pole cannot be seen as facing east from Highway 237

Proposed slimline pole cannot be seen through foliage lining HWY 237

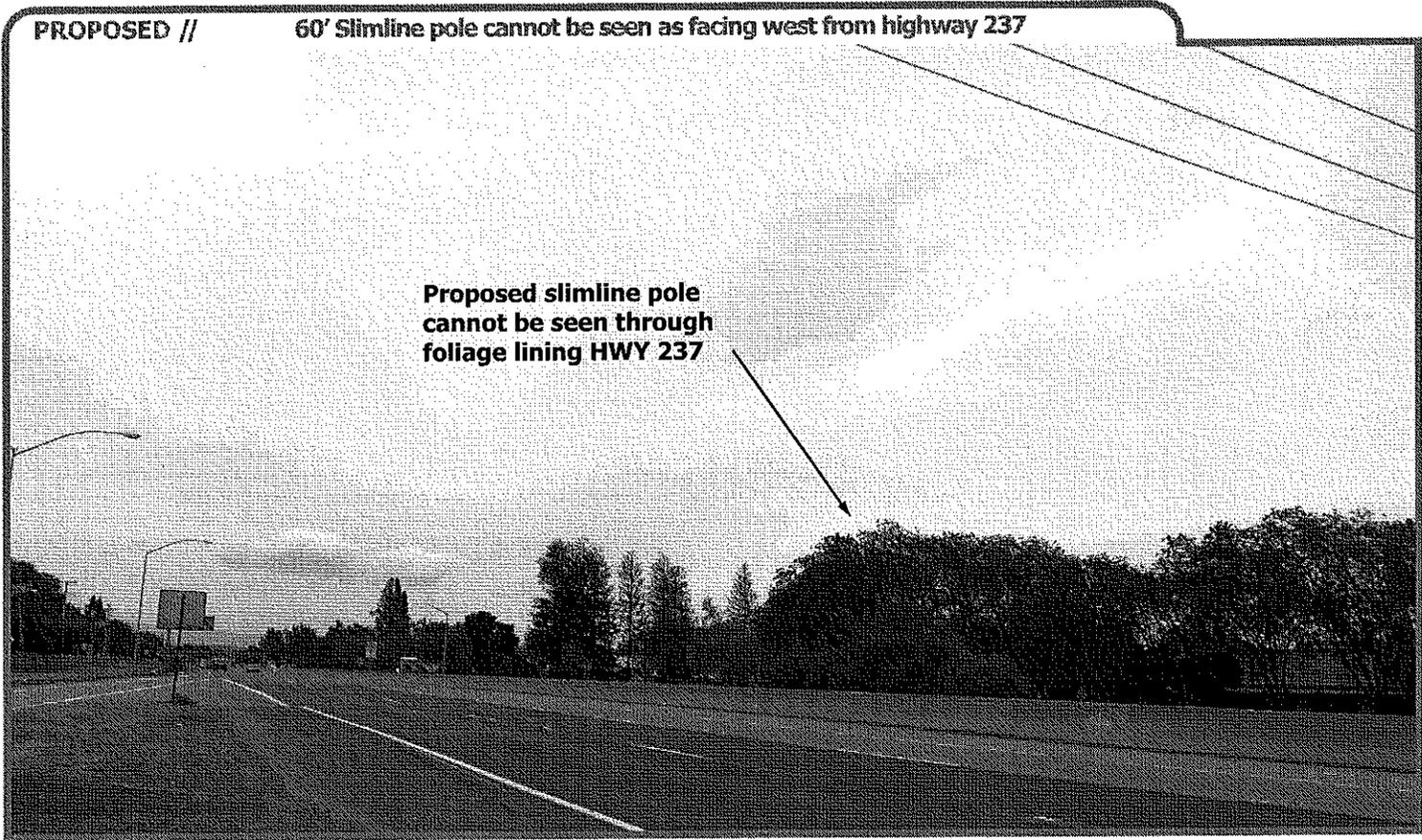


EXISTING

PROPOSED //

60' Slimline pole cannot be seen as facing west from highway 237

Proposed slimline pole
cannot be seen through
foliage lining HWY 237





Radio Frequency Analysis

AT&T Mobility

Site # CN4047

"237 Java Sunnyvale"

1225 Innsbruck Dr.

Sunnyvale, CA 94089

By: Evan Wappel

Last Update: Devan Knight

Date: 9/22/2010



Report Summary

Based upon information provided by AT&T Mobility and the design engineer, and using the calculated method for determining RF field strength, it is the engineer's opinion that the proposed AT&T Mobility site to be located at 1225 Innsbruck Dr. Sunnyvale, CA 94089 will comply with the FCC's current prevailing standard for limiting human exposure to RF energy.

Due to the mounting method utilized, the general public would not normally be able to approach the antennas. Therefore, no significant impact on the general population is expected. The calculated electromagnetic field strength level in publicly accessible areas is less than the existing standard allows for exposure of unlimited duration. Additionally, due to the mounting method used, no significant impact on the environment is expected.

For personnel who work within 11' of the face of an antenna, a training program in exposure to RF fields is recommended. Maintenance personnel should be instructed to contact the appropriate Carrier prior to working in front of an antenna.

Recommended Signage

There is no RF caution signs required at the site.

Background

Evan Wappel is the Market RF Safety Coordinator for AT&T Mobility and is responsible for conducting a Radio Frequency (RF) electromagnetic analysis for the AT&T Mobility site to be located at 1225 Innsbruck Dr. Sunnyvale, CA 94089. This analysis consists of a review of the proposed site conditions, calculation of the estimated RF field strength of the antennas, and the provision of a comparison of the estimated field strength with the Federal Communication Commission (FCC) recommended guidelines for human exposure to RF electromagnetic fields.

**Site Description**

Based upon the information provided by AT&T Mobility, 9 AT&T Mobility panel antennas will be mounted inside a pole. The antennas will be mounted approximately 40' (to bottom of antennas) above ground level. The antennas will be oriented such that the main lobes are oriented toward the horizon. Normal public access to the front of the antennas is not expected due to the mounting location and method utilized. Occupational access to the front of the antennas is not normally expected.

RF Field Strength Calculation Methodology

A generally accepted method is used to calculate the expected RF field strength. The method uses the FCC's recommended equation¹ which predicts field strength on a worst case basis by

Equation 1
$$S = \frac{(2)^2 PG}{4\pi R^2} = \frac{PG}{\pi R^2} = \frac{EIRP}{\pi R^2}$$

doubling the predicted field strength. The following equation is used to predict maximum RF field strength:

Where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

¹ Reference Federal Communication Commission Office of Engineering Technology Bulletin 65



Study

The ground level effect of the AT&T Mobility and other carriers' emissions was calculated using a maximum ERP of 2,750 watts. Results were calculated for a height of 6' above ground level. Using these factors, the maximum calculated AT&T Mobility fields at ground level are 1.10% of the existing standard for general population uncontrolled exposure. The additional antennas are for evaluation purposes only and the calculations for the two additional carriers are not based on actual data for any carrier.

See Table 1 for the FCC's guidelines on Maximum Permissible Exposure (MPE). Note that the RF ranges referenced for this analysis are the ranges of 300 – 1500 Mhz, and 1500 – 100,000 Mhz shown in Table 1, which is included in Appendix A.

Exposure Environments

The FCC guidelines incorporate two separate tiers of exposure limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. The decision as to which tier applies in a given situation should be based on the application of the following definitions.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public always fall under this category when exposure is not employment-related.



APPENDIX A
Term Definitions

Exposure Exposure occurs whenever and wherever a person is subjected to electric, magnetic or electromagnetic fields other than those originating from physiological processes in the body and other natural phenomena.

Exposure, partial-body. Partial-body exposure results when RF fields are substantially nonuniform over the body. Fields that are nonuniform over volumes comparable to the human body may occur due to highly directional sources, standing-waves, re-radiating sources or in the near field.

General population/uncontrolled exposure. For FCC purposes, applies to human exposure to RF fields when the general public is exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public always fall under this category when exposure is not employment-related.

Maximum permissible exposure (MPE). The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with an acceptable safety factor.

Occupational/controlled exposure. For FCC purposes, applies to human exposure to RF fields when persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see definition above), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.



Table 1
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (E ² , H ² or S) (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (E ² , H ² or S) (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



Drawing of site layout:

