

Locations:	City light poles in public right-of-way adjacent to: 1) Case no. PLN18391; 4124 Telegraph Ave (APN: 012 1010-002-00); <u>Submitted: September 24, 2018; General Plan: Neighborhood Center Mixed Use;</u> <u>Zoning: CN-2 Neighborhood Commercial Zones; Council District: 1</u> 2) Case file no. PLN18392; 4640 Telegraph Ave (APN: 013 1150-016-00) (see map on reverse)
Proposal:	To consider requests for two (2) applications to install new "small cell site" Monopole Telecommunications Facilities on City light poles by attaching antenna and equipment
Applicant / Phone Number:	Mr. Justin Giarritta / Vinculumms (925) 482-8519
Owner:	City of Oakland
Planning Permits Required:	Major Conditional Use Permit and Regular Design Review with additional findings for Monopole Telecommunications Facility near Residential Zone
Environmental Determination:	Exempt, Section 15301 of the State CEQA Guidelines: Existing Facilities; Exempt, Section 15302: Replacement or Reconstruction; Exempt, Section 15303: New Construction of Small Structures; Section 15183: Projects Consistent with a Community Plan, General Plan or Zoning
Historic Status:	Non-historic properties
Action to be Taken:	Approve with Conditions
Finality of Decision:	<i>Appealable to City Council with 10 days</i>
For Further Information:	Contact case planner Aubrey Rose AICP at (510) 238-2071 or arose@oaklandca.gov

EXECUTIVE SUMMARY

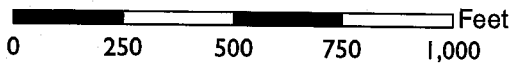
The applicant requests Planning Commission approval to establish two (2) small cell wireless telecommunication facilities on existing City street light poles located in the public right-of-way in commercial zones adjacent to residential zones. The project involves attaching one antenna within one shroud to the top of the pole and equipment mounted to the side of the pole, as described in the submitted plans, to enhance wireless services in those areas.

Regular Design Review and a Major Conditional Use Permit decided by the Planning Commission, each with additional findings, are required for the installation of a new Monopole Telecommunications Facility for sites located near a residential zone. The proposed projects, antenna and associated equipment, would be similar to other facilities around the City. The proposed telecommunication facility is therefore sited at appropriate locations and would not significantly increase negative visual impacts to adjacent properties including residences. The project meets all the required findings for approval of these two (2) small cell sites.

TELECOMMUNICATIONS BACKGROUND**Limitations on Local Government Zoning Authority under the Telecommunications Act of 1996**

Section 704 of the Telecommunications Act of 1996 (TCA) provides federal standards for the siting of "Personal Wireless Services Facilities." "Personal Wireless Services" include all commercial mobile services (including personal communications services (PCS), cellular radio mobile services, and paging); unlicensed wireless services; and common carrier wireless exchange access services. Under Section 704, local zoning authority over personal wireless services is preserved such that the FCC is prevented from preempting local land use decisions; however, local government zoning decisions are still restricted by several provisions of federal law. Specifically:

CITY OF OAKLAND PLANNING COMMISSION



Case Files: PLN18391, PLN18392
Applicant: Mr. Justin Giarritta / Vinculums
Addresses: 4124 Telegraph Ave, 4640 Telegraph Ave
Zones: CN-2, CN-2

- Under Section 253 of the TCA, no state or local regulation or other legal requirement can prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service.
- Further, Section 704 of the TCA imposes limitations on what local and state governments can do. Section 704 prohibits any state and local government action which unreasonably discriminates among personal wireless providers. Local governments must ensure that its wireless ordinance does not contain requirements in the form of regulatory terms or fees which may have the “effect” of prohibiting the placement, construction, or modification of personal wireless services.
- Section 704 also preempts any local zoning regulation purporting to regulate the placement, construction and modification of personal wireless service facilities on the basis, either directly or indirectly, on the environmental effects of radio frequency emissions (RF) of such facilities, which otherwise comply with Federal Communications Commission (FCC) standards in this regard. (See 47 U.S.C. Section 332(c)(7)(B)(iv) (1996)). This means that local authorities may not regulate the siting or construction of personal wireless facilities based on RF standards that are more stringent than those promulgated by the FCC.
- Section 704 mandates that local governments act upon personal wireless service facility siting applications to place, construct, or modify a facility within a reasonable time (See 47 U.S.C.332(c)(7)(B)(ii) and FCC Shot Clock ruling setting forth “reasonable time” standards for applications deemed complete).
- Section 704 also mandates that the FCC provide technical support to local governments in order to encourage them to make property, rights-of-way, and easements under their jurisdiction available for the placement of new spectrum-based telecommunications services. This proceeding is currently at the comment stage.

For more information on the FCC’s jurisdiction in this area, consult the following:

Competition & Infrastructure Policy Division (CIPD) of the Wireless Telecommunications Bureau, main division number: (202) 418-1310. <https://www.fcc.gov/general/competition-infrastructure-policy-division-wireless-telecommunications-bureau>

PROPERTY DESCRIPTION

The sites consist of a City light pole in the public right-of-way (sidewalk towards curb). Each pole measures 25-feet in height at top of pole and 26’-3” at top of luminaire. The pole hosts utility wires despite being a metal light pole. The district consists of one and two-story buildings with businesses and some upper story residences along a four-lane corridor.

1) Case file no. PLN18931; 4124 Telegraph Avenue: the pole fronts an open corner parking lot. Situated to the north (left) is a two-story residence.

2) Case file no. PLN18392; 4640 Telegraph Avenue: the pole fronts a one-story commercial building.

PROJECT DESCRIPTION

The sites are proposed for:

- Installation by top-mounting a 4’-6” tall shroud containing one 25-inch tall canister antennas to total 28’-6” in height;
- Installation of two 1’-6” tall equipment packs, side-mounted equipment below the street light; and
- Paint and texturize the proposed antenna and associated equipment to match the pole.

No portion of the telecommunication facilities would be located at grade. The proposed antenna and associated equipment would not be accessible to the public.

SIMILAR CASES

Records show that the Planning Commission has approved numerous Monopole Telecommunications Facilities requiring Design Review and Conditional Use Permits throughout the City since 2016.

GENERAL PLAN ANALYSIS

Both sites are located in the Neighborhood Center Mixed Use area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the area is: "intended to identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office, active open space, eating and drinking places, personal and business services, and smaller scale, educational, cultural, or entertainment uses." The proposed telecommunication facilities would be mounted on existing City street light poles within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility would not adversely affect the characteristics of the neighborhood.

ZONING ANALYSIS

Both sites are in the CN-2 Neighborhood Commercial Zone. Monopole Telecommunications Facilities on City light poles require a Conditional Use Permit and a Regular Design Review with additional findings; these permits are decided by the Planning Commission for sites located in or near to a residential zone. New wireless telecommunications facilities may also be subject to a Site Alternatives Analysis, Site Design Alternatives Analysis, and a satisfactory radio-frequency (RF) emissions report. Staff analyzes the proposal in consideration of these requirements in the 'Key Issues and Impacts' section of this report. Additionally, attachment to City infrastructure requires review by the City's Real Estate Department, Public Works Agency's Electrical Division, and Information Technology Department. Given customers increasing reliance upon cellular service for phone and Wi-Fi, the proposal for a Monopole Telecommunications Facility that is not adjacent to a primary living space or historic structure conforms to this intent.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines list the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15301, minor additions and alterations to an existing City street light pole; Section 15302, replacement or reconstruction of existing utility systems and/or facilities; and Section 15303, new construction or conversion of small structures, and is subject to Section 15183, projects consistent with a community plan, general plan or zoning.

KEY ISSUES AND IMPACTS

The proposal to establish a Monopole Telecommunications Facility is subject to the following Planning Code development standards, which are followed by staff's analysis in relation to this application:

17.128.080 Monopole Telecommunications Facilities.

A. General Development Standards for Monopole Telecommunications Facilities.

1. Applicant and owner shall allow other future wireless communications companies including public and quasi-public agencies using similar technology to collocate antenna equipment and facilities on the monopole unless specific technical or other constraints, subject to independent verification, at the applicant's expense, at the discretion of the City of Oakland Zoning Manager, prohibit said collocation. Applicant and other wireless carriers shall provide a mechanism for the construction and maintenance of shared facilities and infrastructure and shall provide for equitable sharing of cost in accordance with industry standards. Construction of future facilities shall not interrupt or interfere with the continuous operation of applicant's facilities.

The proposal involves use of an existing City of Oakland metal street light pole that would remain available for future collocation purposes as practicable.

2. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained.

Recommended conditions of approval require painting and texturing the antenna and equipment to match the appearance of the metal pole. There is no equipment shelter or cabinet proposed; however, minimal equipment would be closely mounted onto the side of the metal pole.

3. When a monopole is in a Residential Zone or adjacent to a residential use, it must be set back from the nearest residential lot line a distance at least equal to its total height.

Neither of the sites are in Residential Zones or adjacent to a residential property.

4. In all zones other than the D-CE-5, D-CE-6, IG, CIX-2, and IO Zones, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may be increased from the otherwise required maximum height to forty-five (45) feet upon the granting of a Conditional Use Permit (see Chapter 17.134 for the Conditional Use Permit Procedure).

This requirement does not apply. The subject property is not located in any of the described zoning districts. Nonetheless, the facility would not exceed the height of 28'-6".

5. In the D-CE-5, D-CE-6, CIX-2, and IO Zones, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may be increased from the otherwise required maximum height to eighty (80) feet upon the granting of a Conditional Use Permit (see Chapter 17.134 for the Conditional Use Permit Procedure).

This requirement does not apply. The subject property is not located in any of the described zoning districts. Nonetheless, the facility would not exceed the height of 28'-6".

6. In the IG Zone, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may reach a height of forty-five (45) feet. These facilities may reach a height of eighty (80) feet upon the granting of Regular Design Review approval (see Chapter 17.136 for the Design Review Procedure).

This requirement does not apply. The subject property is not located in the described zoning district. Nonetheless, the facility would not exceed the height of 28'-6".

7. The applicant shall submit written documentation demonstrating that the emissions from the proposed project are within the limits set by the Federal Communications Commission.

This standard is met by the proposal; a satisfactory emissions report has been submitted and is attached to this report (Attachments C-D).

8. Antennas may not extend more than fifteen (15) feet above their supporting structure.

The proposed antenna would project less than fifteen feet above the City light pole.

17.128.110 Site location preferences.

New wireless facilities shall generally be located on the following properties or facilities in order of preference:

- A. Co-located on an existing structure or facility with existing wireless antennas.
- B. City-owned properties or other public or quasi-public facilities.
- C. Existing commercial or industrial structures in Nonresidential Zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
- D. Existing commercial or industrial structures in Residential Zones, HBX Zones, or the DCE-3 or D-CE-4 Zones.
- E. Other Nonresidential uses in Residential Zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- F. Residential uses in Nonresidential Zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
- G. Residential uses in Residential Zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.

Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis. Facilities proposing to locate on a D through G ranked preference, inclusive, must submit a site alternatives analysis as part of the required application materials. A site alternatives analysis shall, at a minimum, consist of: a. The identification of all A, B and C ranked preference sites within one thousand (1,000) feet of the proposed location. If more than three (3) sites in each preference order exist, the three such closest to the proposed location shall be required. b. Written evidence indicating why each such identified alternative cannot be used. Such evidence shall be in sufficient detail that independent verification, at the applicant's expense, could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. refusal to lease, inability to provide utilities).

A site alternatives analysis is not required because the proposal conforms to 'B' as it would be located on a public facility (City light pole). Nonetheless, the applicant has submitted an analysis which is attached to this report (Attachments C-D).

17.128.120 Site design preferences.

New wireless facilities shall generally be designed in the following order of preference:

- A. Building or structure mounted antennas completely concealed from view.
- B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
- D. Building or structure mounted antennas above roof line visible from public right-of-way.
- E. Monopoles.
- F. Towers.

Facilities designed to meet an A or B ranked preference do not require a site design alternatives analysis. Facilities designed to meet a C through F ranked preference, inclusive, must submit a site design alternatives analysis as part of the required application materials. A site design alternatives analysis shall, at a minimum, consist of: a. Written evidence indicating why each such higher preference design alternative cannot be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

The proposal most closely conforms to 'E' (monopole) and the applicant has submitted a satisfactory site design alternatives analysis (Attachments C-D).

17.128.130 Radio frequency emissions standards.

The applicant for all wireless facilities, including requests for modifications to existing facilities, shall submit the following verifications:

- a. With the initial application, a RF emissions report, prepared by a licensed professional engineer or other expert, indicating that the proposed site will operate within the current acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.
- b. Prior to commencement of construction, a RF emissions report indicating the baseline RF emissions condition at the proposed site.
- c. Prior to final building permit sign off, an RF emissions report indicating that the site is actually operating within the acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.

A satisfactory report is attached to this report (Attachments C-D).

Analysis

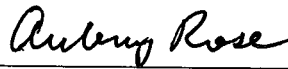
The proposed site design would not be situated on an historic or decorative pole or structure, would not create a view obstruction, and would not negatively impact a view from a primary living space such as a living room or bedroom window. Staff, therefore, finds the proposal to provide an essential service with a least-intrusive possible design. Draft conditions of approval stipulate that the components be painted and textured to match the metal pole in appearance for camouflaging.

In conclusion, staff recommends approval subject to recommended Conditions of Approval.

RECOMMENDATIONS:

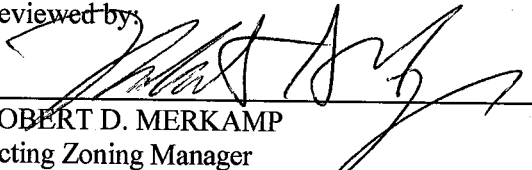
1. Affirm staff's environmental determination.
2. Approve the Major Conditional Use Permit and Regular Design Review, subject to the attached Findings and Conditions of Approval.

Prepared by:

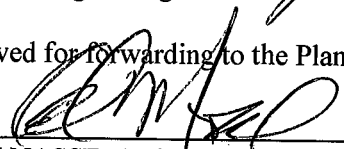


AUBREY ROSE, AICP
Planner III

Reviewed by:


ROBERT D. MERKAMP
Acting Zoning Manager

Approved for forwarding to the Planning Commission:


ED MANASSE, Acting Deputy Director
Planning Bureau

ATTACHMENTS:

- A. Findings
 - B. Conditions of Approval
- Plans / Photo-Simulations / Site Analyses / RF Report / Proof of Posting:
- C. Site # 1: Case no. PLN182391; 4124 Telegraph Avenue
 - D. Site # 2: Case no. PLN18392; 4640 Telegraph Avenue

ATTACHMENT A: FINDINGS

This proposal meets the required findings under General Use Permit Criteria (OMC Sec. 17.134.050), Conditional Use Permit Criteria for Monopole Facilities (OMC Sec. 17.136.040(A)), Regular Design Review Criteria for Nonresidential Facilities (OMC Sec. 17.136.050(B)), and Design Review Criteria for Monopole Telecommunications Facilities (OMC Sec. 17.128.070(B)), as set forth below. Required findings are shown in **bold type**; explanations as to why these findings can be made are in normal type.

GENERAL USE PERMIT CRITERIA (OMC SEC. 17.134.050):

A. That the location, size, design, and operating characteristics of the proposed development will be compatible with and will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage, and density; to the availability of civic facilities and utilities; to harmful effect, if any, upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development.

The proposal is to establish a Monopole Telecommunications Facility in a commercial zone by attaching to an existing City light pole. Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

B. That the location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant.

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design.

C. That the proposed development will enhance the successful operation of the surrounding area in its basic community functions, or will provide an essential service to the community or region.

The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

D. That the proposal conforms to all applicable design review criteria set forth in the design review procedure at Section 17.136.070.

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

E. That the proposal conforms in all significant respects with the Oakland Comprehensive Plan and with any other applicable plan or development control map which has been adopted by the City Council.

Both sites are located in the Neighborhood Center Mixed Use area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the area is: "intended to identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office, active open space, eating and drinking places, personal and business services, and smaller scale, educational, cultural, or entertainment uses." The proposed telecommunication facilities would be mounted on existing City street light poles within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility would not adversely affect the characteristics of the neighborhood.

CONDITIONAL USE PERMIT CRITERIA FOR MONOPOLE FACILITIES (OMC SEC. 17.128.070(C))

1. The project must meet the special design review criteria listed in subsection B o

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

2. Monopoles should not be located any closer than one thousand five hundred (1,500) feet from existing monopoles unless technologically required or visually preferable.

Use of this pole precludes placement of a new pole with facility fronting an upper story residences at various viable sites in the surrounding area and is therefore "visually preferable."

3. The proposed project must not disrupt the overall community character.

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

4. If a major conditional use permit is required, the Planning Director or the Planning Commission may request independent expert review regarding site location, collocation and facility configuration. Any party may request that the Planning Commission consider making such request for independent expert review.

a. If there is any objection to the appointment of an independent expert engineer, the applicant must notify the Planning Director within ten (10) days of the Commission request. The Commission will hear arguments regarding the need for the independent expert and the applicant's objection to having one appointed. The Commission will rule as to whether an independent expert should be appointed.

b. Should the Commission appoint an independent expert, the Commission will direct the Planning Director to pick an expert from a panel of licensed engineers, a list of which will be compiled, updated and maintained by the Planning Department.

c. No expert on the panel will be allowed to review any materials or investigate any application without first signing an agreement under penalty of perjury that the expert will keep confidential any and all information learned during the investigation of the application. No personnel currently employed by a telecommunication company are eligible for inclusion on the list.

d. An applicant may elect to keep confidential any proprietary information during the expert's investigation. However, if an applicant does so elect to keep confidential various items of proprietary information, that applicant may not introduce the confidential proprietary information for the first time before the Commission in support of the application.

e. The Commission shall require that the independent expert prepare the report in a timely fashion so that it will be available to the public prior to any public hearing on the application.

f. Should the Commission appoint an independent expert, the expert's fees will be paid by the applicant through the application fee, imposed by the City.

A Major Conditional Use Permit is required and the Planning Director or Planning Commission may therefore independent expert review in addition to that which is attached to this report.

REGULAR DESIGN REVIEW CRITERIA FOR NON-RESIDENTIAL FACILITIES (OMC SEC. 17.136.050(B))

1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area.

Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060;

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The proposal will not create a view obstruction, will not be directly adjacent to a residential facility's primary living space windows, and will not be located on an historic or decorative structure. The proposal will enhance essential services in a residential or commercial district.

2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area;

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The proposal will not create a view obstruction, will not be directly adjacent to a residential facility's primary living space windows, and will not be located on an historic or decorative structure. The proposal will enhance essential services in a residential or commercial district.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.

This finding is met by this proposal as described in a previous section of this attachment.

DESIGN REVIEW CRITERIA FOR MONOPOLE TELECOMMUNICATIONS FACILITIES (OMC SEC. 17.128.070(B))

1. Collocation is to be encouraged when it will decrease visual impact and collocation is to be discouraged when it will increase negative visual impact.

The project does not involve collocation as it involves the establishment of a new telecommunications facility; however, the project should not preclude any future proposals for location at the site.

2. Monopoles should not be sited to create visual clutter or negatively affect specific views.

The Monopole Facility is sited on existing infrastructure where it will not create clutter or negatively affect specific views. The view of the City street light from the adjacent story residence should remain of the pole below the antenna and above the equipment.

3. Monopoles shall be screened from the public view wherever possible.

The Monopole Facility will be camouflaged and texturized to match the appearance of the existing light pole that will host it. The City street light is not located adjacent to a residential facility

4. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained.

Recommended conditions of approval require painting and texturing the antenna and equipment to match the appearance of the metal pole. There is no equipment shelter or cabinet proposed, however minimal equipment would be closely mounted on the side of the metal pole.

5. Site location and development shall preserve the preexisting character of the surrounding buildings and land uses and the zone district as much as possible. Wireless communication towers shall be integrated through location and design to blend in with the existing characteristics of the site to the extent practical. Existing on-site vegetation shall be preserved or improved, and disturbance of the existing topography shall be minimized, unless such disturbance would result in less visual impact of the site to the surrounding area.

The proposed Monopole Facility will be placed in an existing non-decorative City light pole. This enables the preservation of character in the area and will not pose a negative visual impact as the proposal will be camouflaged to match the pole. There is no adjacent vegetation or topography.

6. That all reasonable means of reducing public access to the antennas and equipment has been made, including, but not limited to, placement in or on buildings or structures, fencing, anti-climbing measures and anti-tampering devices.

The minimal clearance to the facility will reduce or eliminate public access.

Attachment B: Conditions of Approval

1. Approved Use

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, staff report and the approved plans dated **October 2, 2017 (#2) and October 17, 2017 (#1) and submitted September 24, 2017**, as amended by the following conditions of approval and mitigation measures, if applicable (“Conditions of Approval” or “Conditions”).

Two (2) approvals to install new “small cell site” Monopole Telecommunications Facilities on an existing City street light pole in public right-of-way (sidewalk) by attaching one antenna within a shroud to the top of the pole and equipment mounted to the side of the pole adjacent to:

- 1) Case no. PLN18391; 4124 Telegraph Avenue
- 2) Case file no. PLN18392; 4640 Telegraph Avenue

2. Effective Date, Expiration, Extensions and Extinguishment

This Approval shall become effective immediately, unless the Approval is appealable, in which case the Approval shall become effective in ten calendar days unless an appeal is filed. Unless a different termination date is prescribed, this Approval shall expire **two calendar years** from the Approval date, or from the date of the final decision in the event of an appeal, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this Approval, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit or other construction-related permit for this project may invalidate this Approval if said Approval has also expired. If litigation is filed challenging this Approval, or its implementation, then the time period stated above for obtaining necessary permits for construction or alteration and/or commencement of authorized activities is automatically extended for the duration of the litigation.

3. Compliance with Other Requirements

The project applicant shall comply with all other applicable federal, state, regional, and local laws/codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City’s Bureau of Building, Fire Marshal, and Public Works Department. Compliance with other applicable requirements may require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition #4.

4. Minor and Major Changes

- a. Minor changes to the approved project, plans, Conditions, facilities, or use may be approved administratively by the Director of City Planning.
- b. Major changes to the approved project, plans, Conditions, facilities, or use shall be reviewed by the Director of City Planning to determine whether such changes require submittal and approval of a revision to the Approval by the original approving body or a new independent permit/approval. Major revisions shall be reviewed in accordance with the procedures required for the original permit/approval. A new independent permit/approval shall be reviewed in accordance with the procedures required for the new permit/approval.

5. Compliance with Conditions of Approval

- a. The project applicant and property owner, including successors, (collectively referred to hereafter as the “project applicant” or “applicant”) shall be responsible for compliance with all the Conditions of Approval and any recommendations contained in any submitted and approved technical report at his/her sole cost and expense, subject to review and approval by the City of Oakland.

- b. The City of Oakland reserves the right at any time during construction to require certification by a licensed professional at the project applicant's expense that the as-built project conforms to all applicable requirements, including but not limited to, approved maximum heights and minimum setbacks. Failure to construct the project in accordance with the Approval may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension, or other corrective action.
- c. Violation of any term, Condition, or project description relating to the Approval is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approval or alter these Conditions if it is found that there is violation of any of the Conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions. The project applicant shall be responsible for paying fees in accordance with the City's Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Approval or Conditions.

6. Signed Copy of the Approval/Conditions

A copy of the Approval letter and Conditions shall be signed by the project applicant, attached to each set of permit plans submitted to the appropriate City agency for the project, and made available for review at the project job site at all times.

7. Blight/Nuisances

The project site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60 days of approval, unless an earlier date is specified elsewhere.

8. Indemnification

- a. To the maximum extent permitted by law, the project applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the Oakland Redevelopment Successor Agency, the Oakland City Planning Commission, and their respective agents, officers, employees, and volunteers (hereafter collectively called "City") from any liability, damages, claim, judgment, loss (direct or indirect), action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul this Approval or implementation of this Approval. The City may elect, in its sole discretion, to participate in the defense of said Action and the project applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.
- b. Within ten (10) calendar days of the filing of any Action as specified in subsection (a) above, the project applicant shall execute a Joint Defense Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Joint Defense Letter of Agreement shall survive termination, extinguishment, or invalidation of the Approval. Failure to timely execute the Letter of Agreement does not relieve the project applicant of any of the obligations contained in this Condition or other requirements or Conditions of Approval that may be imposed by the City.

9. Severability

The Approval would not have been granted but for the applicability and validity of each and every one of the specified Conditions, and if one or more of such Conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid Conditions consistent with achieving the same purpose and intent of such Approval.

10. Job Site Plans

Ongoing throughout demolition, grading, and/or construction

At least one (1) copy of the stamped approved plans, along with the Approval Letter and Conditions of Approval, shall be available for review at the job site at all times.

11. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Monitoring

The project applicant may be required to cover the full costs of independent third-party technical review and City monitoring and inspection, including without limitation, special inspector(s)/inspection(s) during times of extensive or specialized plan-check review or construction, and inspections of potential violations of the Conditions of Approval. The project applicant shall establish a deposit with the Bureau of Building, if directed by the Building Official, Director of City Planning, or designee, prior to the issuance of a construction-related permit and on an ongoing as-needed basis.

12. Public Improvements

The project applicant shall obtain all necessary permits/approvals, such as encroachment permits, obstruction permits, curb/gutter/sidewalk permits, and public improvement ("p-job") permits from the City for work in the public right-of-way, including but not limited to, streets, curbs, gutters, sidewalks, utilities, and fire hydrants. Prior to any work in the public right-of-way, the applicant shall submit plans for review and approval by the Bureau of Planning, the Bureau of Building, and other City departments as required. Public improvements shall be designed and installed to the satisfaction of the City.

13. Construction Days/Hours

Requirement: The project applicant shall comply with the following restrictions concerning construction days and hours:

- a. Construction activities are limited to between 7:00 a.m. and 7:00 p.m. Monday through Friday, except that pier drilling and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m.
- b. Construction activities are limited to between 9:00 a.m. and 5:00 p.m. on Saturday. In residential zones and within 300 feet of a residential zone, construction activities are allowed from 9:00 a.m. to 5:00 p.m. only within the interior of the building with the doors and windows closed. No pier drilling or other extreme noise generating activities greater than 90 dBA are allowed on Saturday.
- c. No construction is allowed on Sunday or federal holidays.

Construction activities include, but are not limited to, truck idling, moving equipment (including trucks, elevators, etc.) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.

Any construction activity proposed outside of the above days and hours for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case-by-case basis by the City, with criteria including the urgency/emergency nature of the work, the proximity of residential or other sensitive uses, and a consideration of nearby residents'/occupants' preferences. The project applicant shall notify property owners and occupants located within 300 feet at least 14 calendar days prior to construction activity proposed outside of the above days/hours. When submitting a request to the City to allow construction activity outside of the above days/hours, the project applicant shall submit information concerning the type and duration of proposed construction activity and the draft public notice for City review and approval prior to distribution of the public notice.

When Required: During construction

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

PROJECT-SPECIFIC CONDITIONS

14. Emissions Report

Requirement: A RF emissions report shall be submitted to the Planning Bureau indicating that the site is actually operating within the acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.

Requirement: Prior to a final inspection

When Required: Prior to final building permit inspection sign-off

Initial Approval: N/A

Monitoring/Inspection: N/A

15. Camouflage

Requirement: The antenna and equipment shall be painted, texturized, and maintained the same color and finish of the City light pole.

When Required: Prior to a final inspection

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

16. Operational

Requirement: Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

When Required: Ongoing

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

17. Graffiti Control

Requirement:

- a. During construction and operation of the project, the project applicant shall incorporate best management practices reasonably related to the control of graffiti and/or the mitigation of the impacts of graffiti. Such best management practices may include, without limitation:
- b. The project applicant shall remove graffiti by appropriate means within seventy-two (72) hours. Appropriate means include the following:
 - i. Removal through scrubbing, washing, sanding, and/or scraping (or similar method) without damaging the surface and without discharging wash water or cleaning detergents into the City storm drain system.
 - ii. For galvanized poles, covering with new paint to match the color of the surrounding surface.
 - iii. Replace pole numbers.

When Required: Ongoing

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

ATTACHMENT C

Plans / Photo-Simulations / Site Analyses / RF Report / Proof of Posting:

Site # 1: Case no. PLN182391; 4124 Telegraph Avenue

EXHIBIT C

PROJECT TEAM

APPLICANT:

AT&T
5001 Executive Parkway
San Ramon, CA 94583

ARCHITECT/ENGINEER:

Rodney Barnes
Meridian Management LLC
785 Oak Grove Road E2
Suite 231
Concord, CA 94518
1 707.592.5924
rodneym@meridianmanagement.com

ZONING CONTACT:

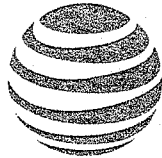
Scott Yergovich
Vinculums Services
575 Lennox Lane
Suite 125
Walnut Creek, CA 94598
1 415.596.3474
myergo@gmail.com

LEASING CONTACT:

Scott Yergovich
Vinculums Services
575 Lennox Lane
Suite 125
Walnut Creek, CA 94598
1 415.596.3474
myergo@gmail.com

CONSTRUCTION MANAGER:

Vinculums Services
575 Lennox Lane
Suite 125
Walnut Creek, CA 94598



AT&T

5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583

DRAWING SIGN-OFF

VINCULUMS

SITE ACQUISITION:

PLANNING:

CONSTRUCTION:

MANAGEMENT:

AT&T

CONSTRUCTION:

REAL ESTATE:

RF ENGINEER:

EQUIPMENT ENGINEER:

MW/ENG/TRANSPORT:

OWNER:

Signature

Date

Signature

Date



AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:



Project Architect:



575 LENNOX LANE
SUITE 125
WALNUT CREEK, CA 94598
1 415.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-010

PAGE ID:
ROW AT 4124 TELEGRAPH AVE
OAKLAND, CA 94609
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev. Date Description

01 09/21/17 Zoning Drawg 90%

02 10/27/17 Zoning Drawg 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

Sheet Title:

T.1

Sheet No.:

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GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
- A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
- CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE DESIGNER AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA CODES
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN BUILDING CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- CITY OF OAKLAND PUBLIC WORKS DEPARTMENT
- GENERAL ORDER 95 (JUNE 2009 EDITION)

CRAN-RSFR-SFOK7-010

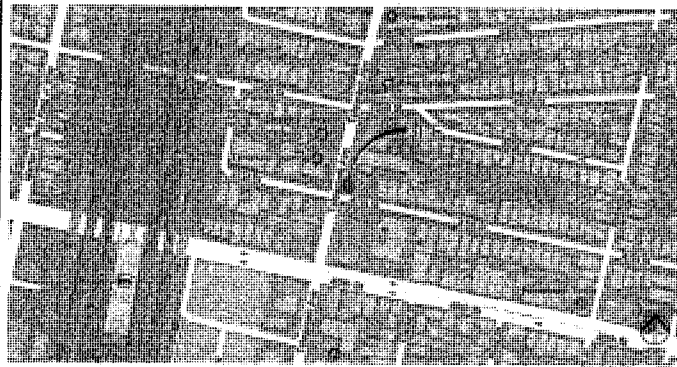
PAGE ID:

ROW AT 4124 TELEGRAPH AVE, OAKLAND, CA 94609

COUNTY: ALAMEDA

SITE TYPE: METAL STREET LIGHT POLE

FA:14394424 HUB:20 USID:192909



PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY.

SCOPE OF WORK & SITE COMPLETION CHECKLIST:

- ANTENNA & ASSOCIATED EQUIPMENT BOXES: INSTALL A NEW TELECOMMUNICATION ANTENNA AND 2 EQUIPMENT BOXES ON AN EXISTING METAL LIGHT POLE
- DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
- CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS
- LOGS REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED TEXT ON BRIS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILED
- SIGNAGE: FCC MANDATED BY WARNING SIGNAGE SHALL FACE CLIMBING SPACE. OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.
- UTILITY LINES: PROPOSED UTILITY LINES BETWEEN EXISTING POINT OF CONNECTION TO BE IN CONDUIT INSIDE POLE

SITE INFORMATION

OWNER: CITY OF OAKLAND

APPLICANT: AT&T
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

LATITUDE: 37.8301620 (NAD 83)

LONGITUDE: -122.2440860 (NAD 83)

GROUND ELEVATION: 83' AMSL

ADJACENT APN#: (JFO) 12-1010-1

ZONING JURISDICTION: CITY OF OAKLAND

CURRENT ZONING: PUBLIC ROW

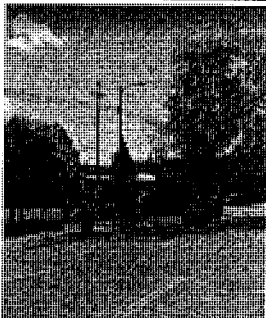
PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



SITE IMAGE



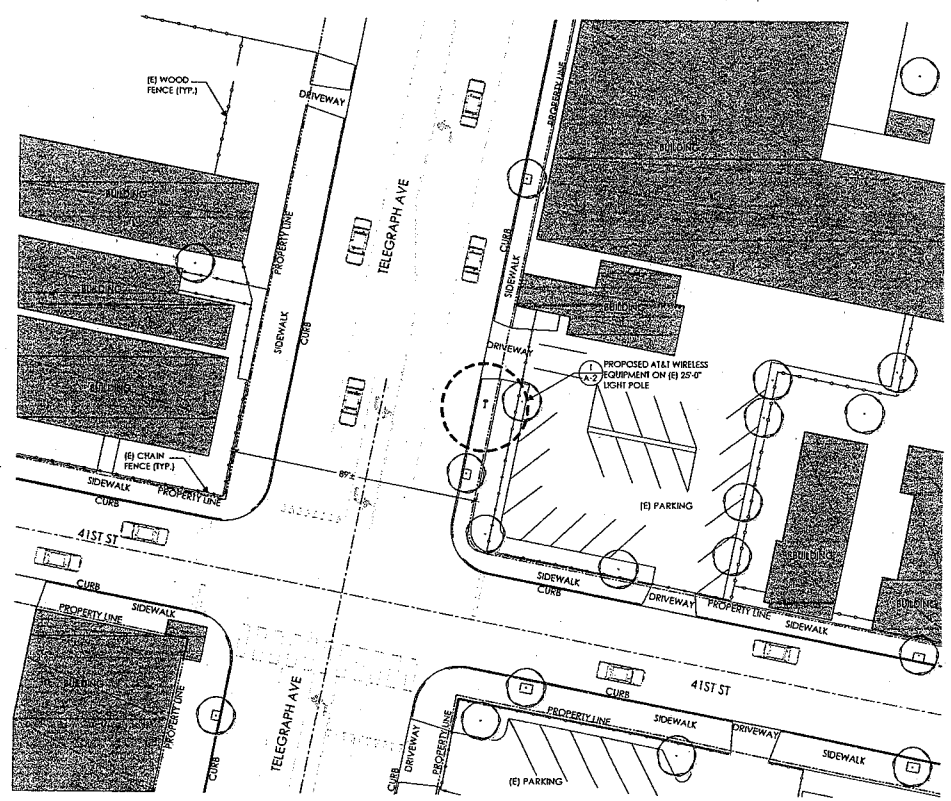
DRIVING DIRECTIONS

FROM AT&T WIRELESS OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA

- Head north-east on Bishop Dr towards Sunset Dr
- Turn right onto Sunset Dr
- Use the right 2 lanes to turn right onto Ballinger Canyon Rd
- Use the right 2 lanes to merge onto I-680 N via the slip road to Sacramento
- Merge onto I-680 N
- Use the right 2 lanes to take exit 46A for State Route 24 towards Oakland/Oakley
- Continue onto CA-24 W
- Keep left of the fork to stay on CA-24 W
- Take the Telegraph Avenue exit towards West Grand Avenue/Intestate 580
- Turn left onto Telegraph Ave

INDEX

T.1	TITLE SHEET
T.2	GENERAL NOTES, LEGEND, ABBREVIATIONS
A.1	OVERALL SITE PLAN
A.2	POLE PLAN, EQUIPMENT ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS



NOTE:
 THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

UNDERGROUND UTILITIES NOTE:
 THE LOCATIONS AND EXISTENCE OF ANY UNDERGROUND PIPES, STRUCTURES, OR CONDUITS SHOWN ON THIS PLAN WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAY BE EXISTING UTILITIES OTHER THAN THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THIS PLAN.

OVERALL SITE PLAN



AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Client:



Project Architect:



575 LENNON LANE
 SUITE 125
 WALNUT CREEK, CA 94598
 T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-010
 PAGE 10
 ROW AT 4124 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Site Name:

Professional Seal:
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Rev.	Date	Description
01	09/21/17	Zoning Draw 90%
02	10/21/17	Zoning Draw 95%

Project No.:
 Date: 09/21/17 Job No.:
 Scale: AS SHOWN CAD File:
 Designed By: JG Checkered: RB

OVERALL SITE PLAN

Sheet Title:

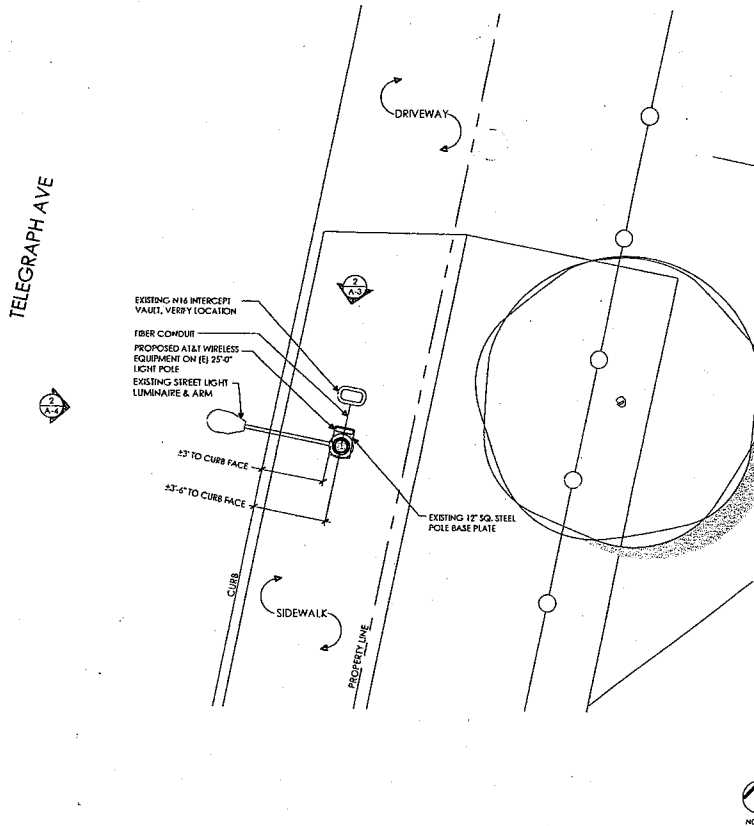
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Sheet No.:

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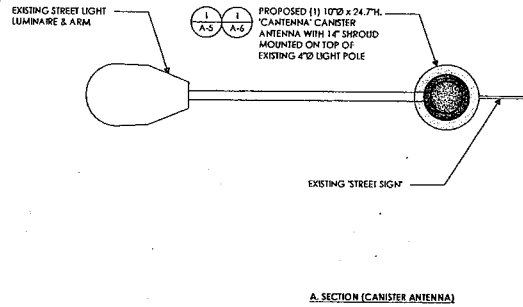
NOTES:

1. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
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3. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
4. SIGNAGE: FCC MANDATED RF WARNING SIGNAGE SHALL FACE CLIMBING SPACE. OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.



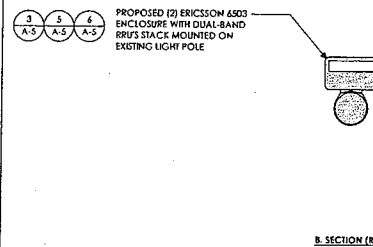
POLE PLAN ENLARGEMENT

SCALE 3/8" = 1'-0" 1



ANTENNA ENLARGEMENT PLAN

SCALE 1" = 1'-0" 2



B SECTION (RRUS)

EQUIPMENT ENLARGEMENT PLAN

SCALE 1" = 1'-0" 3



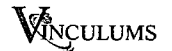
AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:



Mobility Management LLC
705 Oak Grove Road #7
Suite 201
Concord, CA 94518
1.507.922.9971
www.MMforManagement.com

Project Architect:



575 EMINENT LANE
SUITE 125
WAINWIT CREEK, CA 94598
1.925.482.8900

Site Agent:

90% Zoning Drawings

(E) LIGHT POLE

Drawing Phase:

CRAN-RSFR-SF0K7-010

PACE ID:
ROW AT 4124 TELEGRAPH AVE
OAKLAND, CA 94609
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/21/17	Zoning Dept 90%
02	10/02/17	Zoning Dept 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

POLE PLAN EQUIPMENT ENLARGEMENTS

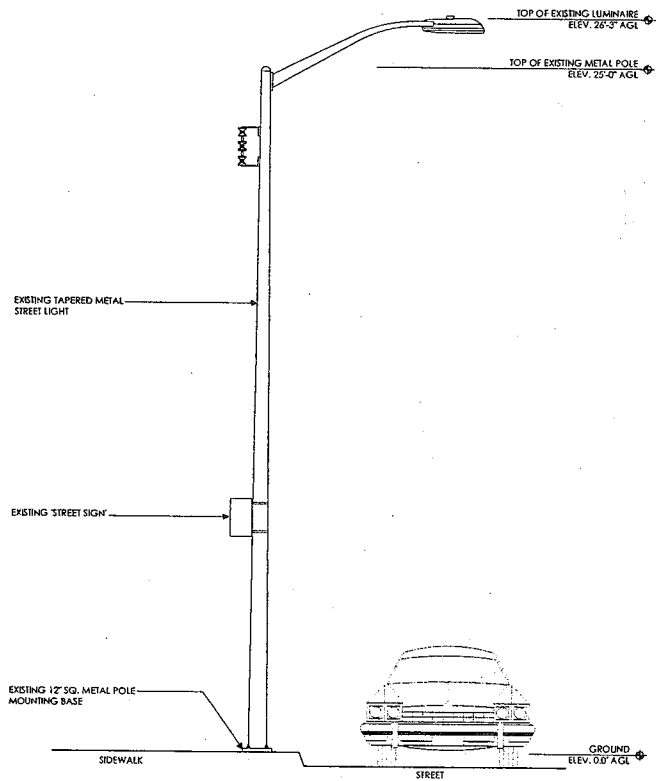
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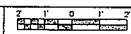
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SCALE NOTE:
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 CORRECTLY, CHECK FOR REDUCTION OR
 ENLARGEMENT FROM ORIGINAL PLANS.



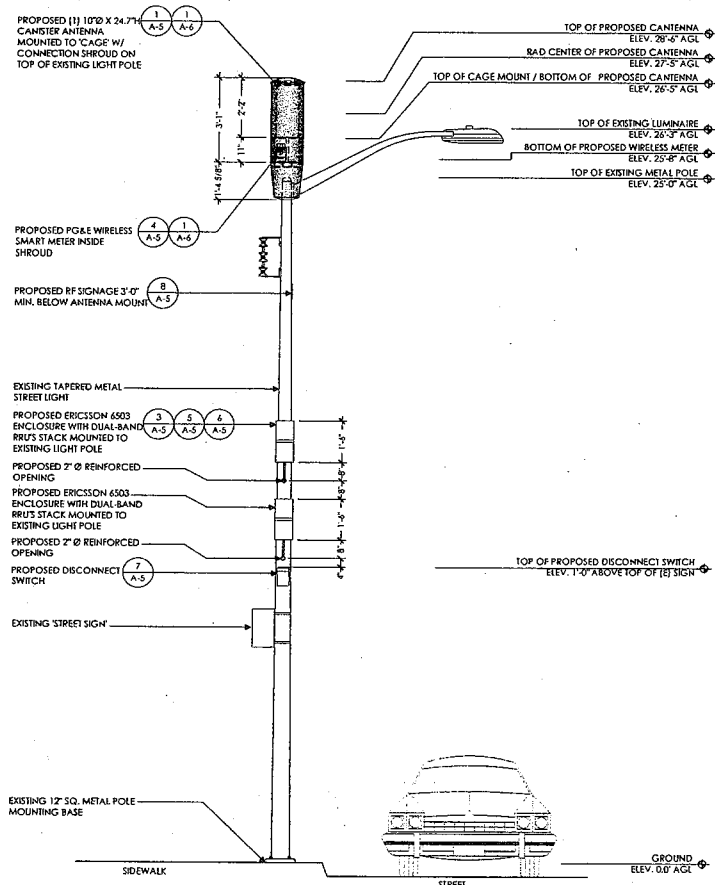
NORTH ELEVATION - EXISTING



SCALE
1/2" = 1'-0"

1

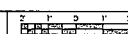
NORTH ELEVATION - PROPOSED



TOP OF PROPOSED DISCONNECT SWITCH
 ELEV. 1'-0" ABOVE TOP OF [B] SIGN

EXISTING 12" SQ. METAL POLE MOUNTING BASE

GROUND ELEV. 0.0' AGL



SCALE
1/2" = 1'-0"

2



AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Client:



Meridian Management LLC
 700 Oak Grove Road #2
 Suite 301
 Concord, CA 94518
 1-925-392-2294
 www.meridianmanagement.com

Project Architect:



575 LINDEN LANE
 SUITE 125
 WALNUT CREEK, CA 94598
 T 925-482-8700

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-010

PACE ID:
 ROW AT 424 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Site Name:

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Rev.	Date	Description
01	09/23/17	Zoning Draw 90%
02	10/02/17	Zoning Draw 95%

Project No.:	Date:	Job No.:
	09/23/17	
Scale:	AS SHOWN	CAD File:
Designed By:	JG	Checked: RB

ELEVATIONS

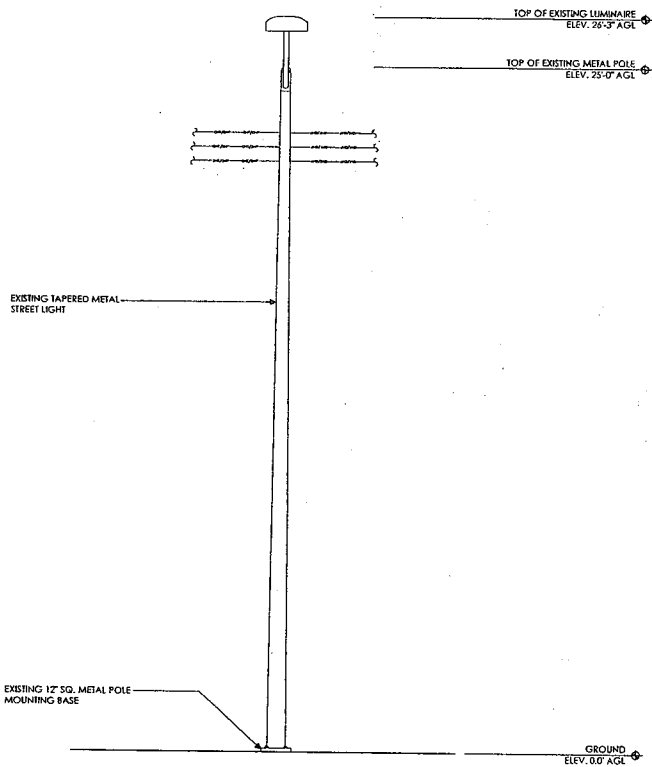
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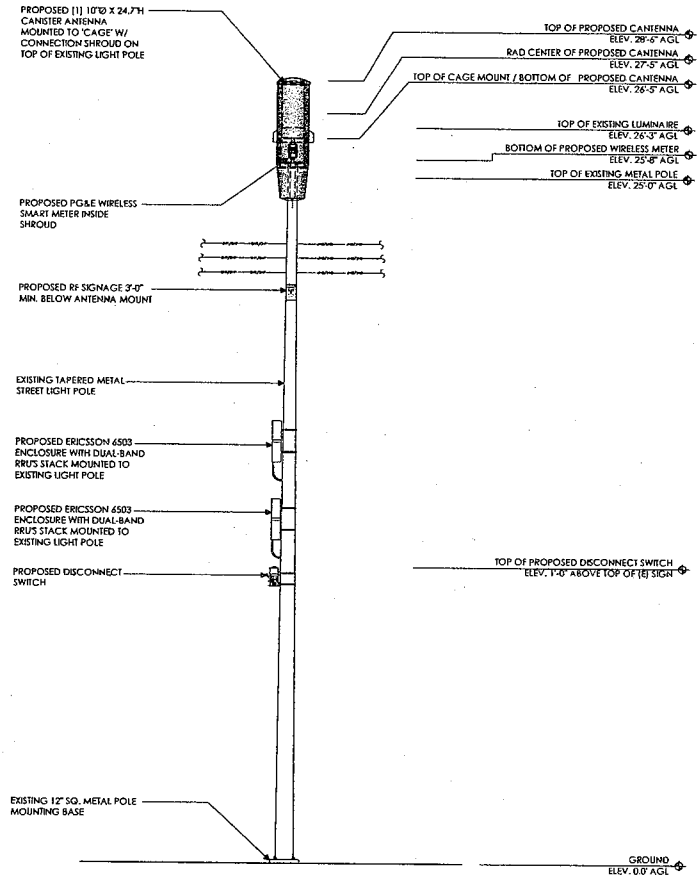
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 CORRECTLY. CHECK FOR REDUCTION OR
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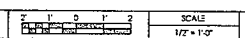
WEST ELEVATION - EXISTING



1



WEST ELEVATION - PROPOSED



2



AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Client:



Project Architect:



575 LENNON LANE
 SUITE 115
 WALNUT CREEK, CA 94598
 T 925.482.8400

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SF0K7-010

PAGE ID:
 ROW AT 4124 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

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Rev. Date Description

01 09/21/17 Zoning Drawg 90%

02 10/02/17 Zoning Drawg 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

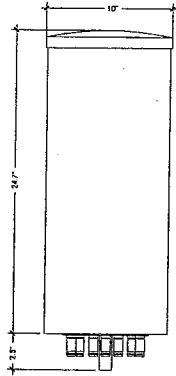
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Sheet No.:

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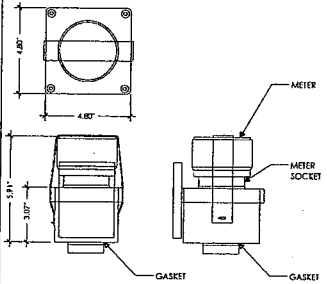
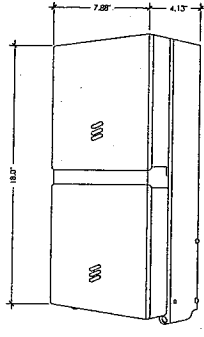
AT&T CANISTER ANTENNA 'CAN-TENNA'

ANTENNA COLOR: LIGHT GRAY
 DIMENSIONS: 10.0"Ø x 24.7" TALL
 NET WEIGHT: 19.0 LBS



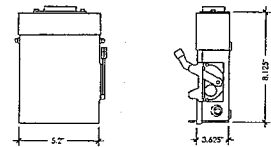
ERICSSON 6503

SINGLE BAND 2203:
 DUAL BAND RRU (2 2203):
 MAXIMUM POWER CONSUMPTION:
 195W PER SINGLE-BAND 2203 RADIO
 190W PER DUAL-BAND 2203 RRU
 MAX FUSE RATING: 32A
 WIRE SIZE: #10 CU OR #8 ALU



MURRAY LW002GRU SPECIFICATIONS

LOAD CENTER DEPTH: 3.625"
 LOAD CENTER WIDTH: 5.2"
 LOAD CENTER HEIGHT: 8.125"
 WEIGHT: 4.55 LB
 LOAD CENTER TYPE: MAIN LUG
 MAX AMPERAGE: 60
 MOUNTING TYPE: PLUG IN
 NUMBER OF PHASES: 1
 NUMBER OF SPACES: 2
 VOLTAGE (VOLTS): 120/240
 INDOOR/OUTDOOR: OUTDOOR
 ELECTRICAL PRODUCT TYPE: LOAD CENTER



NOTICE

Radio frequency fields beyond this point may exceed the FCC general public exposure limit.

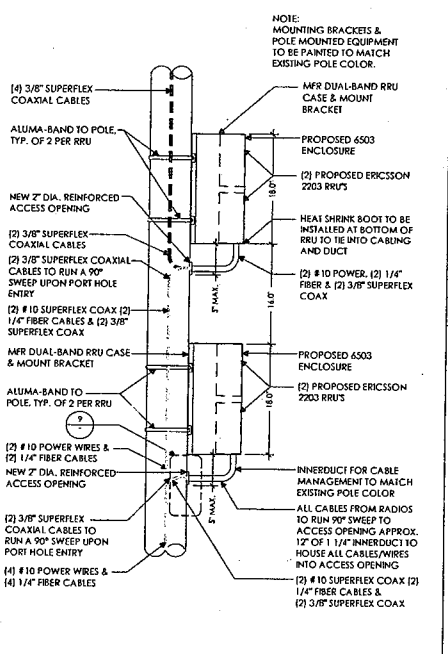
Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions, 47 CFR 1.1307(e).



90% Zoning Drawings

ANTENNA DETAIL 1 6503 RRU ENCLOSURE 3 PG&E WIRELESS SMART METER 4 DISCONNECT SWITCH 7 NOTICE SIGNAGE 8

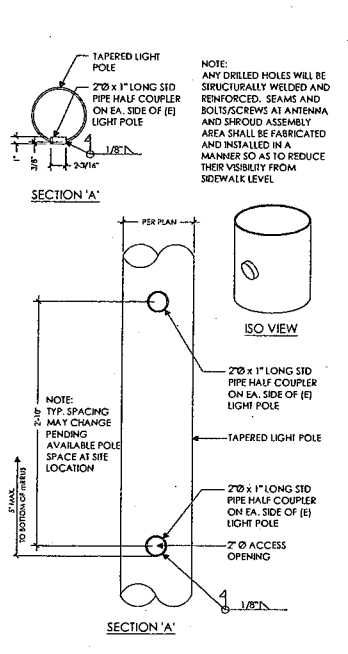
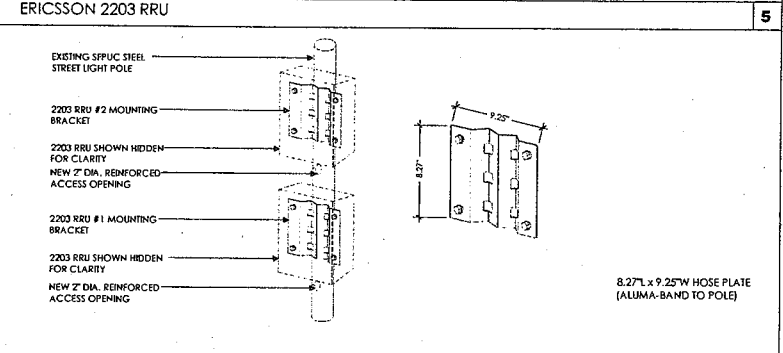


Technical Specifications Radio 2203

REQUENCY BANDS:
 1800MHz: 200 MHz (E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100)

POWER:
 Max Power: 195W (E1-E100)
 Max Power: 190W (E101-E200)

ENVIRONMENTAL SPECIFICATIONS:
 Temperature: -40°C to 70°C (E1-E100)
 Humidity: 5% to 95% (E1-E100)
 Vibration: 0.5g (E1-E100)



DUAL BAND RRU MOUNT 2 6503 RRU-POLE MOUNTING DETAILS 6 VERTICAL ACCESS PORT 9

CRAN-RSFR-SFOK7-010
 ROW AT 4254 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Professional Seal:
 It is a violation of law for any person, unless they are acting under the direction of a licensed Professional Architect/Engineer, to alter this document.

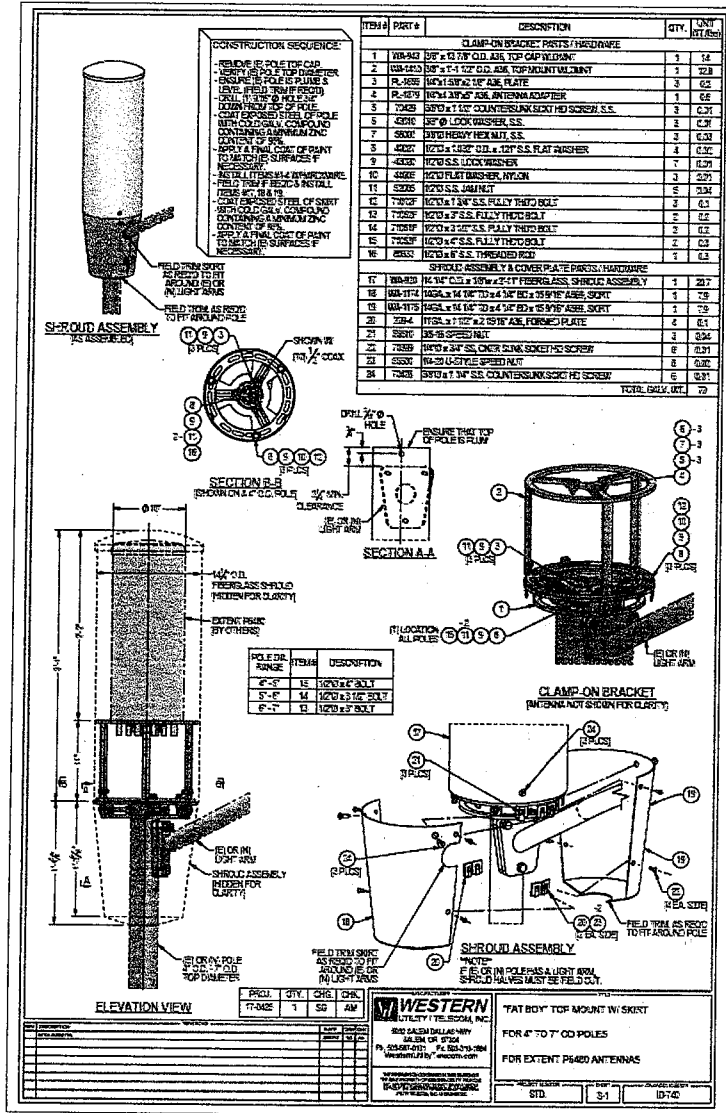
Rev.	Date	Description
01	09/21/17	Zoning Drawg 90%
02	10/02/17	Zoning Drawg 95%

Project No.:
 Date: 09/21/17 Job No.:
 Scale: AS SHOWN CAD File:
 Design By: JG Checked: RJ

EQUIPMENT DETAILS

A.5

Sheet Title:
 Sheet No.:
 ©MetLife Management LLC 2017



AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

MM Modem Management LLC
730 Oak Grove Road #2
Suite 201
Concord, CA 94018
1.927.912.5938
www.modemmanagement.com

Winculums

575 LINDEN LANE
SUITE 135
WALNUT CREEK, CA 94598
T.925.482.8500

90% Zoning Drawings

CRAN-RSFR-SFOK7-010
PAGE ID:
ROW AT 4124 TELEGRAPH AVE
OAKLAND, CA 94609
COUNTY: ALAMEDA

Professional Seal:
It is a violation of Law for any person, unless they are acting under the direction of a licensed Professional Architect/Engineer, to alter this document.

Rev.	Date	Description
01	09/21/17	Zoning Drawg 90%
02	10/01/17	Zoning Drawg 95%

Project No.:
Date: 09/21/17 Job No.:
Scale: AS SHOWN CAD File:
Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:
A.6
Sheet No.:

view from Telegraph Avenue looking south at site



AT&T Wireless

CRAN-RSFR-SFOK7-010
ROW at 4124 Telegraph Avenue, Oakland, CA
Photosims Produced on 9-25-2017

Existing

Proposed



Proposed AT&T
Installation

Existing



Proposed



Proposed AT&T Installation

view from Telegraph Avenue looking northeast at site

Alternative Site Analysis – SF0K7_010



Node 10A:

- Primary candidate.
- Viable light pole that best meets RF objective.



Node 10B:

- Potentially viable alternative.
- Less preferred due to presence of existing lines.



Node 10C:

- Potentially viable alternative.
- Less preferred due to exposure making the pole more visible and less desirable for aesthetics.

Alternative Design Analysis



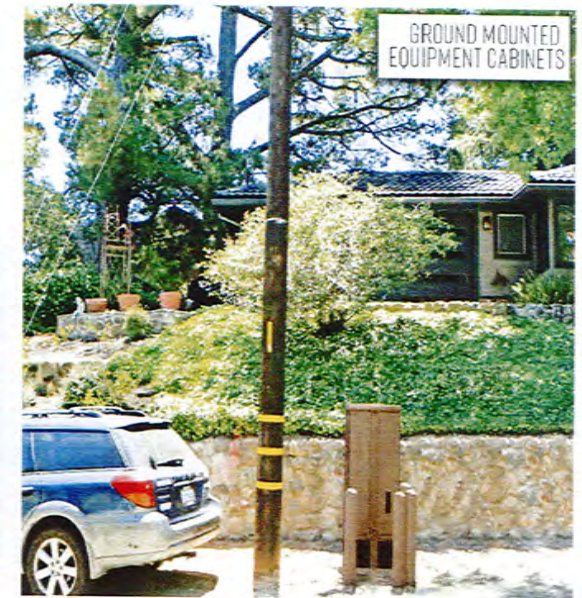
Full-Sized Tower:

- Too big/bulky.
- Requires 300' sq. area.
- Does not nestle coverage/capacity.



Shrouded Pole Equipment:

- Too big/bulky.
- Adds unnecessary equipment.
- Small cell equipment is already sleek.



Equipment Cabinet:

- Too big/bulky.
- Adds unnecessary ROW equipment.
- Pole-mounted equipment blends in with pole.



August 17, 2018

City Planner
Planning Department
City of Oakland
250 Frank Ogawa Plaza, 2nd Floor
Oakland, CA 94612

RE: AT&T CEQA Application for Wireless Facilities on PROW Poles

Dear Planner,

This letter and attached materials are to apply for a categorical exemption under the California Environmental Quality Act ("CEQA"), without exceptions, for the below-described facilities at the attached-referenced locations in the Oakland public right-of-way. This submission is to provide coverage to support ongoing mobile communications and safety needs.

The following is a project description and justification for the proposed exemption.

A. Application Overview.

New Cingular Wireless PCS, LLC ("AT&T") is a telephone company licensed by the California Public Utilities Commission (Utility Number 3060). AT&T will submit or has submitted 51 individual permit applications with the City of Oakland Planning Department for miniature wireless telecommunications facilities (or "nodes") on existing metal street light poles owned by City of Oakland and nodes on joint utility poles wholly owned or co-owned by AT&T and Pacific Gas and Electric ("PG&E") in the public right-of-way as depicted in the attached map ("Attachment A") with closest addresses listed in the enclosed spreadsheet ("Attachment B"). Drawings and photo-simulations depicting designs have been submitted with each land use permit application.

B. Purpose.

The purpose of these applications is to provide enhanced AT&T service in areas of Oakland where demand for this service is greatest. The proposed nodes would provide enhanced capacity and in-building coverage to the intensely trafficked districts that are experiencing rapid growth in demand for wireless service capacity. Signal propagated from a node spans over a smaller and more targeted range than a conventional cell tower and is an essential tool to provide in-building and outdoor network capacity and fill in-building coverage gaps. Each node is independently viable and is not reliant upon the deployment of any other node. These are unmanned facilities that will operate at all times (24 hours per day, 7 days per week) and will be serviced about once per year by an AT&T technician.

B. AT&T Scope of Work.

The AT&T scope of work consists of installing approximately two radios, a disconnect switch antenna, antenna shroud, associated fiber and cables onto each listed City of Oakland metal street light and utility pole.



C. Exemption Statement.

AT&T's analysis concludes that the work conceived by these sites submitted in this one consolidated CEQA application (per submission protocol previously followed for other projects for these types of facilities) qualifies for one or more exemptions under the CEQA Guidelines. Furthermore, this analysis concludes that none of the exceptions to an exemption are applicable to the nodes. The use of existing structures all qualifies for one or more of the following exemptions.

CEQA Guidelines § 15301: Class 1(b) exemptions are applicable to the use of existing poles for nodes. These exemptions cover the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use. Class 1(b) covers existing facilities of both investor and publicly-owned utilities used to provide electric power, natural gas, sewerage, or other public utility services.

CEQA Guidelines § 15303: Class 3(d) and 3(e) exemptions are also applicable to those poles. This exemption covers construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure; and utility extensions.

D. No Exceptional Circumstances Exist.

CEQA Guidelines § 15300.2 provides for six exceptions to the CEQA exemptions cited above. Those exceptions are: sensitive locations, cumulative impacts, significant effects, scenic highways, hazardous waste sites and historical resources. Based on the analysis of its outside environmental consultant, AT&T represents that none of these exceptional circumstances exist at any of the locations in the network.

Sensitive locations: Neither the pole locations nor the areas adjacent to the poles provide habitat for federal-listed special-status plant or wildlife species due to the historic disturbance of the area from grading and construction of homes and related infrastructure coupled with the ongoing maintenance activities. Furthermore, none of the nodes are located in areas mapped as wetlands or as other waters of the U.S., and no other potential wetlands or other waters of the U.S. were observed.

Cumulative/Significant impacts: There will be no cumulative or significant impacts associated with these applications. The construction is all located in disturbed public ROW. The profile of the nodes is extremely minimal and located high on an existing pole where they will be hardly visible. The nodes would be viewed in the context of the existing urban environment, and the incremental visual effect of the nodes on existing poles would be minimal and have no significant aesthetic impact, particularly when viewed together with plentiful existing facilities already mounted in the public right-of-way and street trees that block sight lines of poles. The nodes are widely dispersed among poles separated by tall commercial structures and the visual impact of the nodes would be confined to the immediate area in which each pole is located, resulting in no possible aggregate or cumulative effect.

Scenic Highways: The roadways on which the nodes will be installed are not listed as scenic highways under California state law.

Hazardous waste sites: The sites on which the nodes will be installed have not been identified as hazardous waste sites.



Historical resources: There are no potential effects on historic properties, archeological resources or Native American cultural resources in the areas near the proposed installations.

E. No Segmentation or Piecemealing.

CEQA prohibits dividing or piecemealing a construction project in an effort to avoid CEQA review. AT&T is pursuing certain right-of-way projects to address coverage and capacity demands in different locations of the City. Each project is independent and will be installed when approved regardless of the approval of other projects. None of the projects would have any potential for significant aesthetic impact individually or cumulatively due to their diminutive size and distance between poles.

The locations under this application are poles owned City of Oakland and/or AT&T (by virtue of their membership in the Joint Pole Association) and will complement wireless facilities proposed to be placed on other such poles. As noted with respect to the other applications, none would have any potential for significant aesthetic impact individually or cumulatively due to their diminutive size and distance between poles. In addition, due to the demands upon AT&T's network throughout Oakland, each of these facilities would be completed notwithstanding the completion of any other. Where no project would have any impact on any other, and each would be completed independently, the separate applications do not avoid any CEQA review that would apply whether reviewed separately or collectively.

F. Confidential Treatment.

AT&T is submitting portions of this Application under seal. In particular, AT&T requests confidential treatment. The location of network facilities is confidential and proprietary because the security of AT&T's network and its customer's service could be put at risk if such sensitive information is made public. Further, AT&T would be put at a competitive disadvantage if such confidential business information were disclosed to its competitors.

Feel free to contact me at (925) 482-8519 or jgiarritta@vinculums.com if you have any questions. Thank you.

Best regards,
VINCULUMS SERVICES, LLC

A handwritten signature in black ink, appearing to read "Justin Giarritta".

Justin Giarritta
Densification - Land Use Planner
Developer for AT&T



November 20, 2017

City Planner
Oakland Planning Dept.
250 Frank Ogawa Plaza
Oakland, CA 94612

Re: Proposed AT&T Small Cell Node Installation
Applicant: New Cingular Wireless PCS, LLC (dba AT&T Mobility)
Nearest Site Address: Public Right of Way near 4124 Telegraph Ave, Oakland, CA 94609
Site ID: CRAN RSFR SFOK7-010 ("Node 010")

Dear City Planner,

On behalf of New Cingular Wireless PCS, LLC (doing business as AT&T Mobility), this letter and attached materials are to apply for the appropriate Planning permit to install a small cell node in the public right-of-way at the above-referenced location ("Node 010" or the "Node").¹ The following is an explanation of the existing site, a project description of the designed facility, the project purpose and justifications in support of this proposal.

A. Project Description.

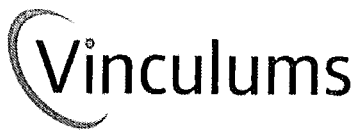
The proposed location for our facility currently consists of an approximate 25 feet tall City-owned light pole in the public right-of-way.

AT&T proposes to affix one canister antenna within an antenna shroud on top of the pole, extending up to a height of about 28.6 feet. On the pole between about 10 feet and 19 feet above ground, AT&T proposes to install two remote radio units and (if necessary) a miniature power disconnect switch. This facility or "Node" will be connected to underground fiber optic telecommunications lines and power. All equipment will be painted to match the pole. Our proposal is depicted in the attached design drawings and photographic simulations.

B. Project Purpose.

The purpose of this project is to provide AT&T third and fourth generation (3G and 4G) wireless voice and data coverage and capacity to the surrounding area. These wireless services include mobile telephone, wireless broadband, emergency 911, data transfers, electronic mail, Internet, web browsing, wireless applications, wireless mapping and video streaming. The proposed node is part of a larger small cell deployment providing wireless coverage and capacity to areas of Oakland that are otherwise very difficult or impossible to cover using traditional macro wireless telecommunications facilities.

¹ AT&T expressly reserves all rights concerning the city's jurisdiction to assert zoning regulation over the placement of wireless facilities in the public rights-of-way.



A small cell network consists of a series of radio access nodes connected to small telecommunications antennas, typically mounted on existing poles within the public rights-of-way, to distribute wireless telecommunications signals. Small cell networks provide telecommunications transmission infrastructure for use by wireless services providers. These facilities allow service providers such as AT&T to establish or expand their network coverage and capacity. The nodes are linked by fiber optic cable that carry the signal stemming from a central equipment hub to a node antenna.

C. Project Justification, Alternative Site and Design Analysis.

The proposed Node is an integral part of AT&T's overall small cell deployment to cover transient traffic along the roadways and provide in-building service to the surrounding area. Using an existing pole is the least intrusive means to meet AT&T's wireless coverage and capacity needs in the area. This Node best uses existing infrastructure, adding small equipment without disturbing the character of the neighborhoods served. Deploying a small cell node at an existing pole location minimizes any visual impact by utilizing an inconspicuous spot.

The small cell node RF emissions are also much lower than the typical macro site, they are appropriate for the area, and they are fully compliant with the FCC's requirements for limiting human exposure to radio frequency energy. The attached radio frequency engineering analysis provided by Hammett & Edison, Inc., Consulting Engineers, confirms that the proposed equipment will operate well within (and actually far below) all applicable FCC public exposure limits. The facility will also comply with California Public Utility Commission (CPUC) General Orders 95 (concerning overhead line design, construction and maintenance) and 170 (CEQA review) that govern utility use in the public right-of-way.

As this application seeks authority to install a wireless telecommunication facility, the FCC's Shot Clock Order² requires the city to issue its final decision on AT&T's application within 150 days. We respectfully request expedited review and approval of this application. Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,
VINCULUMS SERVICES, LLC

A handwritten signature in black ink, appearing to read "Matthew S. Yergovich".

Matthew S. Yergovich
FOR AT&T MOBILITY

² See Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B), WT Docket No. 08-165, Declaratory Ruling, 24 F.C.C.R. 13994 (2009).

**AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SFOK7-010)
4124 Telegraph Avenue • Oakland, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate its small cell (No. CRAN-RSFR-SFOK7-010) proposed to be sited in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Executive Summary

AT&T proposes to install an omnidirectional cylindrical antenna on a light pole sited in the public right-of-way at 4124 Telegraph Avenue in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. A summary of the FCC’s exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000–80,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called “radios”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means



AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SFOK7-010)
4124 Telegraph Avenue • Oakland, California

that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

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

Site and Facility Description

Based upon information provided by AT&T, including drawings by Meridian Management LLC, dated September 21, 2017, it is proposed to install one Galtronics Model P6480, 2-foot tall, omnidirectional cylindrical antenna, on top of an existing light pole sited in the public right-of-way on the east side of Telegraph Avenue, just north of 41st Street, next to a driveway to the parking lot for the building at 4124 Telegraph Avenue. The antenna would employ no downtilt and would be mounted at an effective height of about 27½ feet above ground. The maximum effective radiated power in any direction would be 80 watts for PCS service. There are reported no other wireless telecommunications base stations at this site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.0011 mW/cm², which is 0.11% of the applicable public exposure limit. The maximum calculated level at any nearby building is 1.5% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

No Recommended Mitigation Measures

Due to its mounting location and height, the AT&T antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The occupational limit is calculated to extend 4 inches from the antenna and, due to this short distance, the proposed operation is considered intrinsically compliant with that limit.



AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SF0K7-010)
4124 Telegraph Avenue • Oakland, California

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by AT&T Mobility, at 4124 Telegraph Avenue in Oakland, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating small cells.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2019. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



William F. Hammett, P.E.
707/996-5200

October 30, 2018

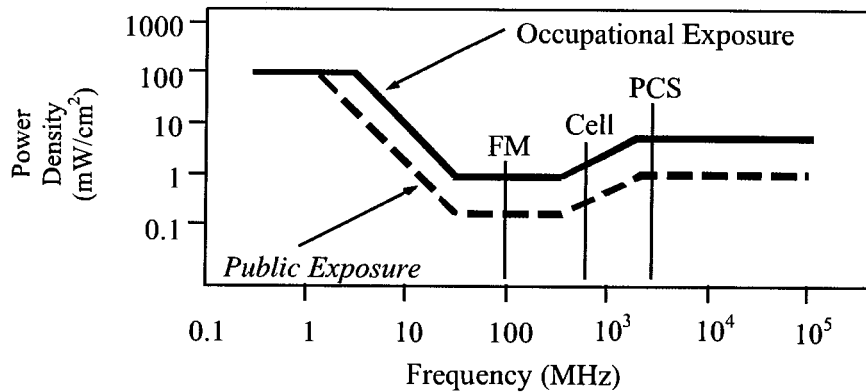


FCC Radio Frequency Protection Guide

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

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

Frequency Applicable Range (MHz)	Electromagnetic Fields (<i>f</i> is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√ <i>f</i>	<i>1.59√f</i>	√ <i>f</i> /106	<i>√f/238</i>	<i>f/300</i>	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



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



RFR.CALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

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

Near Field.

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

For a panel or whip antenna, power density $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

where θ_{BW} = half-power beamwidth of the antenna, in degrees, and

P_{net} = net power input to the antenna, in watts,

D = distance from antenna, in meters,

h = aperture height of the antenna, in meters, and

η = aperture efficiency (unitless, typically 0.5-0.8).

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

Far Field.

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

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, in mW/cm²,

where ERP = total ERP (all polarizations), in kilowatts,

RFF = relative field factor at the direction to the actual point of calculation, and

D = distance from the center of radiation to the point of calculation, in meters.

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





**NOTICE
OF OAKLAND**

City of Oakland
Public Works Department
Engineering Division
Street Closures
Notice of Construction Activity
City of Oakland
Public Works Department
Engineering Division
Street Closures
Notice of Construction Activity



ATTACHMENT D

Plans / Photo-Simulations / Site Analyses / RF Report / Proof of Posting:

Site # 2: Case no. PLN18392; 4640 Telegraph Avenue

Attachment D

PROJECT TEAM

APPLICANT:
AT&T
5001 Executive Parkway
San Ramon, CA 94583

ARCHITECT/ENGINEER:
Rodney Barnes
Mendion Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
1 707 292 2924
rodneym@mendionmanagement.com

ZONING CONTACT:
Moll Yeagovich
Vinculums Services
575 Lenson Lane
Suite 125
Walnut Creek, CA 94598
1 415 396 3474
myeago@gmail.com

LEASING CONTACT:
Moll Yeagovich
Vinculums Services
575 Lenson Lane
Suite 125
Walnut Creek, CA 94598
1 415 396 3474
myeago@gmail.com

CONSTRUCTION MANAGER:
Vinculums Services
575 Lenson Lane
Suite 125
Walnut Creek, CA 94598



5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583

DRAWING SIGN-OFF

	Signature	Date
VINCULUMS		
SITE ACQUISITION:		
PLANNING:		
CONSTRUCTION:		
MANAGEMENT:		
AT&T		
CONSTRUCTION:		
REAL ESTATE:		
RF ENGINEER:		
EQUIPMENT ENGINEER:		
MW ENG/TRANSPORT:		
OWNER:		



AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:



Project Architect:



575 LENSON LANE
SUITE 125
WALNUT CREEK, CA 94598
1 415 396 3474

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SF0K7-012
PAGE ID:
ROW AT 4640 TELEGRAPH AVE
OAKLAND, CA 94609
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/21/17	Zoning Drawings 90%
02	10/03/17	Zoning Drawings 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: IG Checked: RB

TITLE SHEET

Sheet Title:

T.1

Sheet No.:

Mendion Management LLC 2017

GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
- A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
- CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE DESIGNER AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.

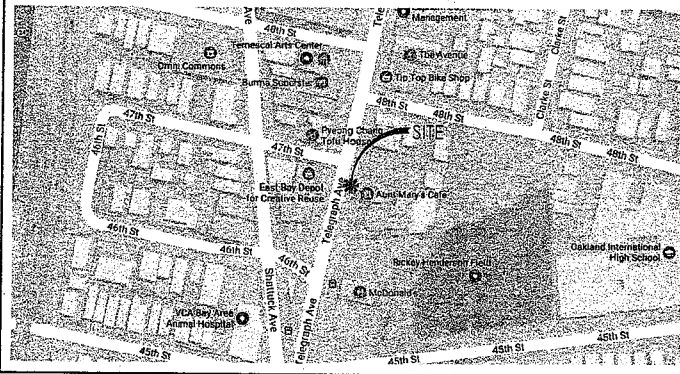
CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA CODES
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN BUILDING CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- CITY OF OAKLAND PUBLIC WORKS DEPARTMENT
- GENERAL ORDER 95 (JUNE 2009 EDITION)

CRAN-RSFR-SF0K7-012

PAGE ID:
ROW AT 4640 TELEGRAPH AVE, OAKLAND, CA 94609
COUNTY: ALAMEDA
SITE TYPE: METAL STREET LIGHT POLE
FA:14394424 HUB:20 USID:192911



SITE IMAGE



DRIVING DIRECTIONS

- FROM AT&T WIRELESS OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA
- Head northeast on Bishop Dr towards Sumner Dr
 - Turn right onto Sumner Dr
 - Use the right 2 lanes to turn right onto Ballinger Canyon Rd
 - Use the right 2 lanes to merge onto I-680 N via the slip road to Sacramento
 - Merge onto I-680 N
 - Use the right 2 lanes to take exit 46A for State Route 24 towards Oakland/Oakland
 - Continue onto CA-24 W
 - Keep left at the fork to stay on CA-24 W
 - Take the Telegraph Avenue exit towards West Grand Avenue/Intenlake 580
 - Turn left onto Telegraph Ave

INDEX

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A.1	OVERALL SITE PLAN
A.2	POLE PLAN, EQUIPMENT ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS

SITE INFORMATION

OWNER: CITY OF OAKLAND

APPLICANT: AT&T
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

LATITUDE: 37.8342300 [NAD 83]

LONGITUDE: -122.2629700 [NAD 83]

GROUND ELEVATION: 103' AMSL

ADJACENT APN#: (RFO) 13-115B-16

ZONING JURISDICTION: CITY OF OAKLAND

CURRENT ZONING: PUBLIC ROW

PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



GENERAL CONSTRUCTION NOTES

- 1. PLANS ARE PREPARED TO BE DIMENSIONED OVER UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE SUPPLYING MATERIAL, EQUIPMENT, APPROPRIATIONS AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS SHOWN ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMISSIONS FROM THE CITY AND COUNTY TO EXCAVATE, DREDGE OR DRAINAGE BY THE CONTRACTOR.
3. CONTRACTOR SHALL OBTAIN NECESSARY PERMISSIONS FROM THE CITY AND COUNTY TO EXCAVATE, DREDGE OR DRAINAGE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED BY THE CONTRACT DOCUMENTS.
5. CONTRACTOR SHALL OBTAIN NECESSARY PERMISSIONS FROM THE CITY AND COUNTY TO EXCAVATE, DREDGE OR DRAINAGE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED BY THE CONTRACT DOCUMENTS.
7. THE RECORD DEPARTMENT SHOULD BE ADVISED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK.
8. DO NOT EXCAVATE OR DRAINAGE BEFORE THE PROPERTY LINE OR LEASE LINE, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN CHECKED FROM AVAILABLE RECORDS.
10. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN CHECKED FROM AVAILABLE RECORDS.
11. ALL PROPOSED AND EXISTING UTILITIES SHOWN ON THE PLAN AND INTEND TO BE OBTAINED BY CONSTRUCTION SHALL BE ADJUSTED TO MATCH EXISTING FROM TO MATCH EXISTING UTILITIES.
12. ANY DRAIN AND/OR FLOOR IS TO BE INSTALLED DURING CONSTRUCTION SHALL BE REFERRED TO ITS ORIGINAL CONSTRUCTION FROM TO MATCH EXISTING FROM TO MATCH EXISTING UTILITIES.
13. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN CHECKED FROM AVAILABLE RECORDS.
14. INCLUDE MEAS. ITEMS PER ALL APPLICABLE SPECIFICATIONS.

GENERAL NOTES FOR FINISH CALLS

- 1. PRIOR TO THE BEGINNING OF WORK, THE RECORDS SUBCONTRACTOR SHALL VISIT THE CALL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CORRECT THE WORK. THE WORK SHALL BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY SHOULD BE REPORTED TO THE ARCHITECT PRIOR TO THE BEGINNING OF WORK.
2. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO OBTAINING APPROVAL OF PROCEEDING WITH CONSTRUCTION.
3. THE FINISH CALL SITE IS TO BE FULLY OPERATIONAL. AFTER CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT OBTAIN THE EXISTING NORMAL OPERATIONAL. ANY WORK ON EXISTING EQUIPMENT MUST BE ACCOMPLISHED BY SUBCONTRACTOR THROUGH A LOW TRAFFIC PERIOD AFTER HOURS.
4. SINCE THE CALL SITE IS A FULL COMMERCIAL OPERATION, ALL CONSTRUCTION WORK SHALL BE ACCOMPLISHED WITHIN THE EXISTING NORMAL OPERATIONAL. ANY WORK ON EXISTING EQUIPMENT MUST BE ACCOMPLISHED BY SUBCONTRACTOR THROUGH A LOW TRAFFIC PERIOD AFTER HOURS.
5. SINCE THE CALL SITE IS A FULL COMMERCIAL OPERATION, ALL CONSTRUCTION WORK SHALL BE ACCOMPLISHED WITHIN THE EXISTING NORMAL OPERATIONAL. ANY WORK ON EXISTING EQUIPMENT MUST BE ACCOMPLISHED BY SUBCONTRACTOR THROUGH A LOW TRAFFIC PERIOD AFTER HOURS.
6. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO OBTAINING APPROVAL OF PROCEEDING WITH CONSTRUCTION.
7. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO OBTAINING APPROVAL OF PROCEEDING WITH CONSTRUCTION.

GENERAL FINISHING NOTES

- 1. MAINTAIN 4" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 4" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MAINTAIN 1" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
4. COVERING ON TOP OF CONDUITS REQUIRED.
5. MAINTAIN 4" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
6. MAINTAIN 4" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
7. MAINTAIN 1" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
8. COVERING ON TOP OF CONDUITS REQUIRED.
9. MAINTAIN 4" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
10. MAINTAIN 4" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
11. MAINTAIN 1" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
12. COVERING ON TOP OF CONDUITS REQUIRED.

GENERAL CONDUIT NOTES

- 1. USE 1/2" RIGID LAD WELD BELOW GRADE.
2. GROUNDED TO 5' COVER OF EARTH.
3. USE 1/2" RIGID LAD WELD BELOW GRADE.
4. GROUNDED TO 5' COVER OF EARTH.
5. USE 1/2" RIGID LAD WELD BELOW GRADE.
6. GROUNDED TO 5' COVER OF EARTH.
7. USE 1/2" RIGID LAD WELD BELOW GRADE.
8. GROUNDED TO 5' COVER OF EARTH.

GENERAL CONDUIT NOTES

- 1. ALL CONDUITS WILL BE MANAGED AND EQUIPPED WITH 3/8" FULL PIPE.
2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
3. SCHEDULE 80 CONDUIT FOR DEEP USE.
4. 7" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3' SUB UP TO THEN CONDUIT TO SCHEDULE 80.
5. CONDUIT TO 3' AT BASE OF POLE.
6. CONDUIT TO 3' AT BASE OF POLE.
7. CONDUIT TO 3' AT BASE OF POLE.
8. CONDUIT TO 3' AT BASE OF POLE.
9. CONDUIT TO 3' AT BASE OF POLE.
10. CONDUIT TO 3' AT BASE OF POLE.

GENERAL CONDUIT NOTES

- 1. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
2. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
3. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
4. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
5. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
6. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
7. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
8. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
9. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.
10. CABLE NOT TO EXCEED 1/2" CLEAR SPACE OFF POLE FACE.

GENERAL NOTES

Table with columns for Proposed Antenna, Existing Antenna, Ground Rod, Ground Bus Bar, Mechanical Equip. Conn., Ground Access Well, Telephone Box, Light Pole, Pole Mounting, Spot Elevation, Revision, Grid Reference, Detail Reference, Elevation Reference, Section Reference. Includes symbols for various materials and conditions.

Table with columns for Electrical Symbols and Abbreviations. Includes symbols for Ampere, Voltage, Grounding, Conduits, Cables, Switches, Transformers, and various electrical components.

LEGEND

ABBREVIATIONS



AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583



Project Architect



375 LINCOLN LANE
SUITE 125
WALNUT CREEK, CA 94598
T.925.482.8500

Site Agent

90% Zoning Drawings

Drawing Phase

CRAN-RSFR-SFOK7-012
PAGE ID:
ROW AT 64610 TELEGRAPH AVE
OAKLAND, CA 94604
COUNTY: ALAMEDA

Site Name

Professional Seal
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Table with columns: Rev, Date, Description. Includes entries for 01 (09/21/17) Zoning Draw 90% and 02 (10/02/17) Zoning Draw 95%.

Project No.

Scale: AS SHOWN CAD File

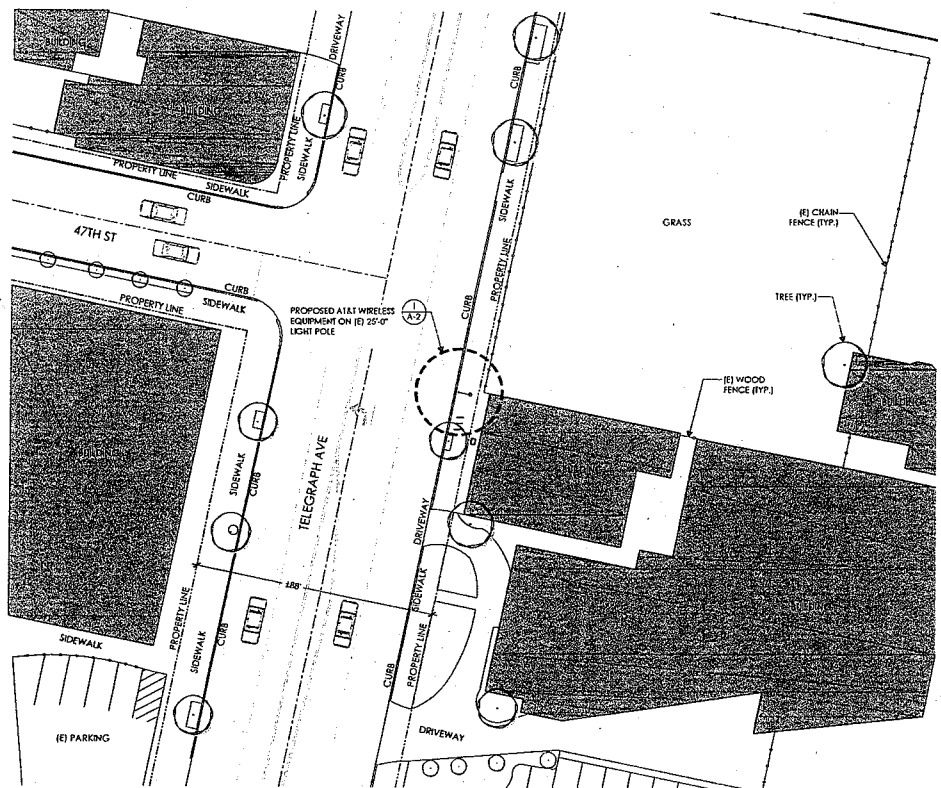
Designed By: JG Checked: RB

GENERAL NOTES
LEGEND
ABBREVIATIONS

T.2

Sheet No.

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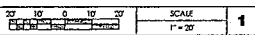
NOTE:
 THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

UNDERGROUND UTILITIES NOTE:
 THE LOCATIONS AND EXISTENCE OF ANY UNDERGROUND PIPES, STRUCTURES, OR CONDUITS SHOWN ON THIS PLAN WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAY BE EXISTING UTILITIES OTHER THAN THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUESTED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THIS PLAN.



NORTH

OVERALL SITE PLAN



AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Client:



Meridian Management LLC
 783 Oak Grove Road (2)
 Suite 201
 Concord CA 94518
 1707.302.2924
 www.meridianmanagement.com

Project Architect:



575 KENNEDY LANE
 SUITE 125
 WALNUT CREEK, CA 94598
 T 925.462.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SPOK7-012

PAGE 01
 ROW AT 4640 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev. / Date / Description

01 / 09/21/17 / Zoning Drawings 90%

02 / 10/02/17 / Zoning Drawings 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

OVERALL SITE PLAN

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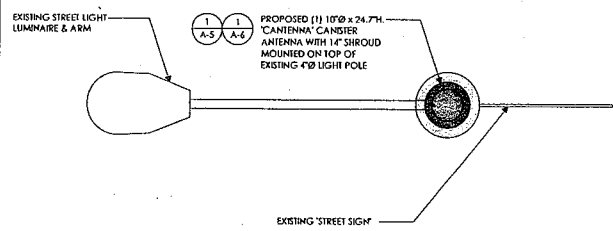
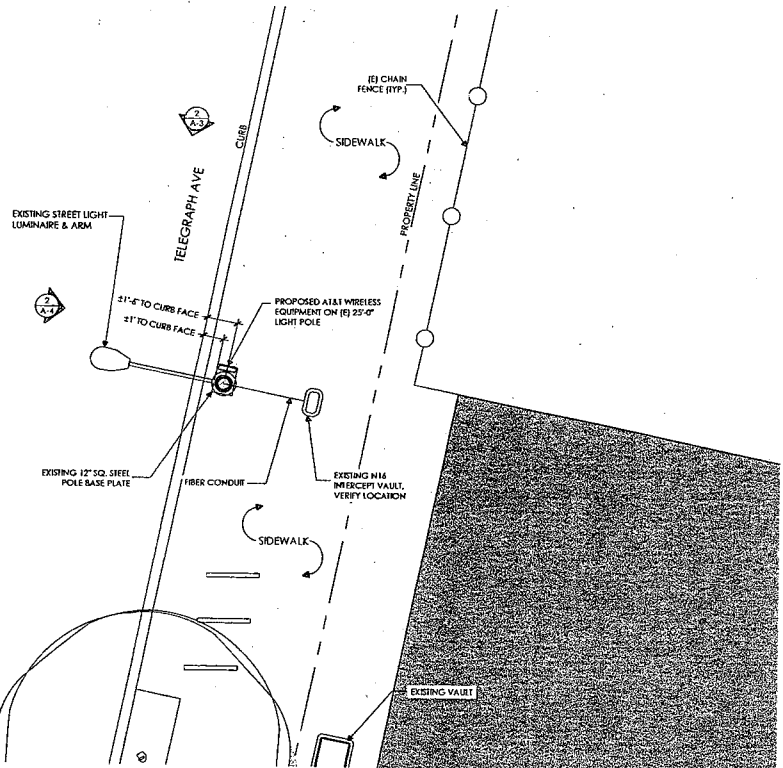
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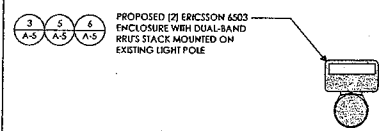
1. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
2. CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS. ALL CABLING TO GROUND-MOUNTED BOXES AND ANTENNAS TO BE INSTALLED INSIDE POLE
3. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
4. SIGNAGE: FCC MANDATED WF WARNING SIGNAGE SHALL FACE CLIMBING SPACE. OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.



A SECTION (CAMISTER ANTENNA)

ANTENNA ENLARGEMENT PLAN

1" = 1'-0"	SCALE	2
------------	-------	---



B SECTION (RRUS)

EQUIPMENT ENLARGEMENT PLAN

1" = 1'-0"	SCALE	3
------------	-------	---

POLE PLAN ENLARGEMENT

3/8" = 1'-0"	SCALE	1
--------------	-------	---



Client:
 AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Project Architect:

VINCULUMS
 575 LEONARD LANE
 SUITE 125
 WALNUT CREEK, CA 94598
 925-482-8500

Site Agent:

90% Zoning Drawings

RE LIGHT POLE

Drawing Phase:

CRAN-RSFR-SFOK7-012
 PAGE ID:
 ROW AT 4540 TELEGRAPH AVE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Site Name:

Professional Seal:
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Rev.	Date	Description
01	09/21/17	Zoning Draw 90%
02	10/03/17	Zoning Draw 95%

Project No:
 Date: 09/21/17 Job No.:
 Scale: AS SHOWN CAD File:
 Designed By: JC Checked: RB

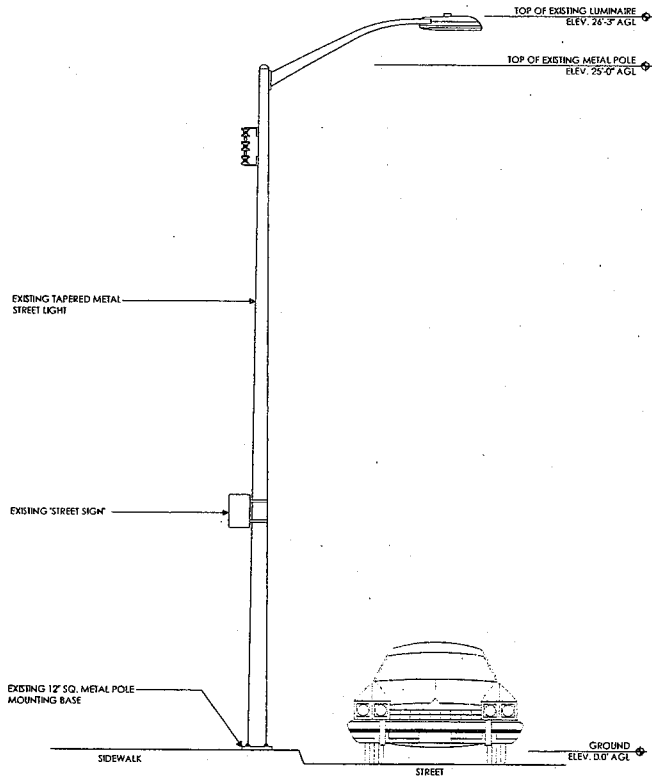
POLE PLAN EQUIPMENT ENLARGEMENTS

Sheet Title:
A.2
 Sheet No.:

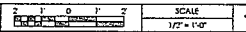
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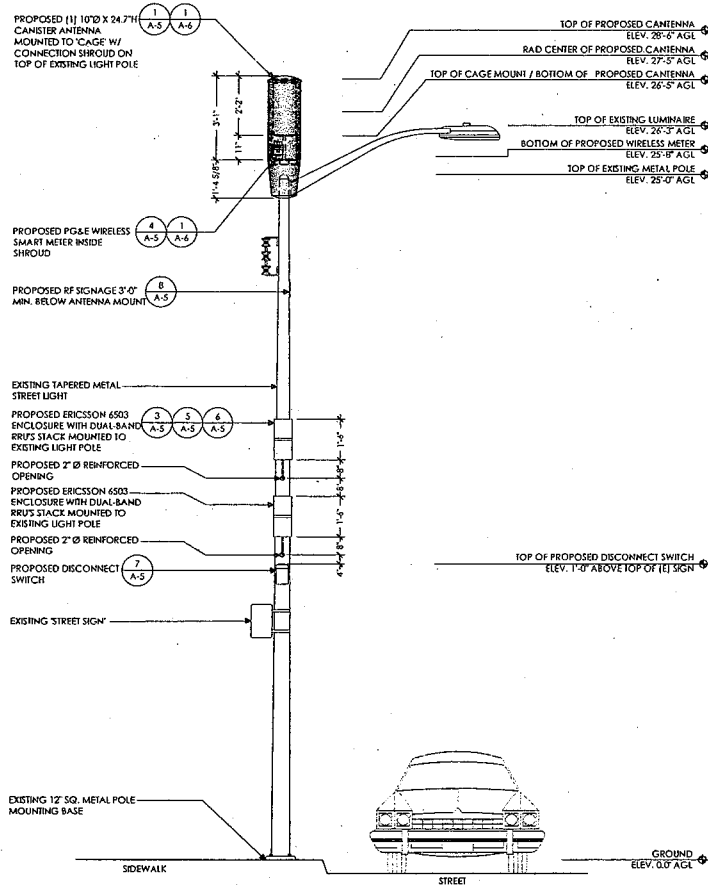
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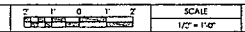
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1



NORTHEAST ELEVATION - PROPOSED

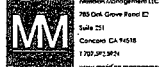


2



AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:



Medison Management LLC
780 Oak Grove Road E
Suite 211
Concord, CA 94518
707.941.3921
www.medisonmanagement.com

Project Architect:



375 LINCOLN LANE
SUITE 125
WALNUT CREEK, CA 94598
916.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-012

FACE ID
ROW AT 4640 TELEGRAPH AVE
OAKLAND, CA 94609
COUNTY: ALAMEDA

Site Name:

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Rev.	Date	Description
01	09/21/17	Zoning Drawg 90%
02	10/03/17	Zoning Drawg 90%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JF Checked: RB

ELEVATIONS

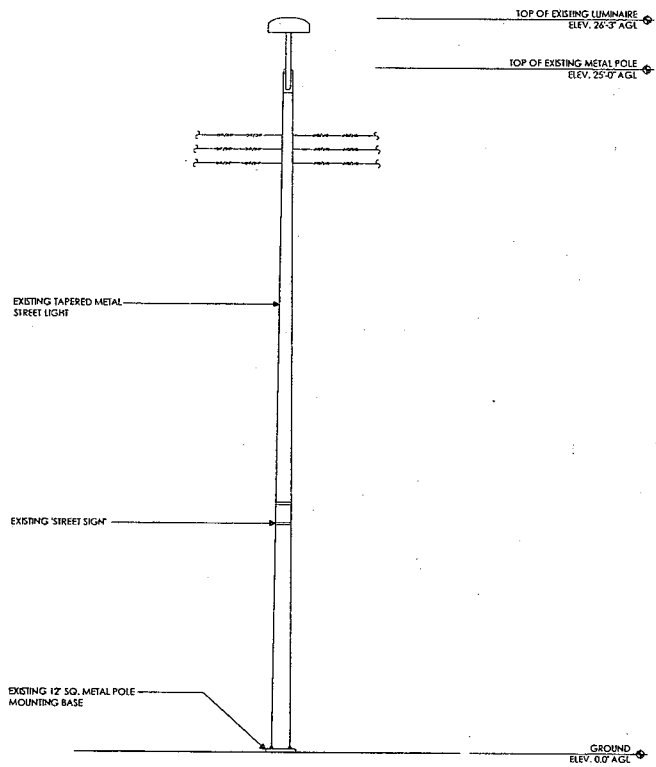
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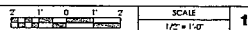
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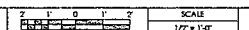
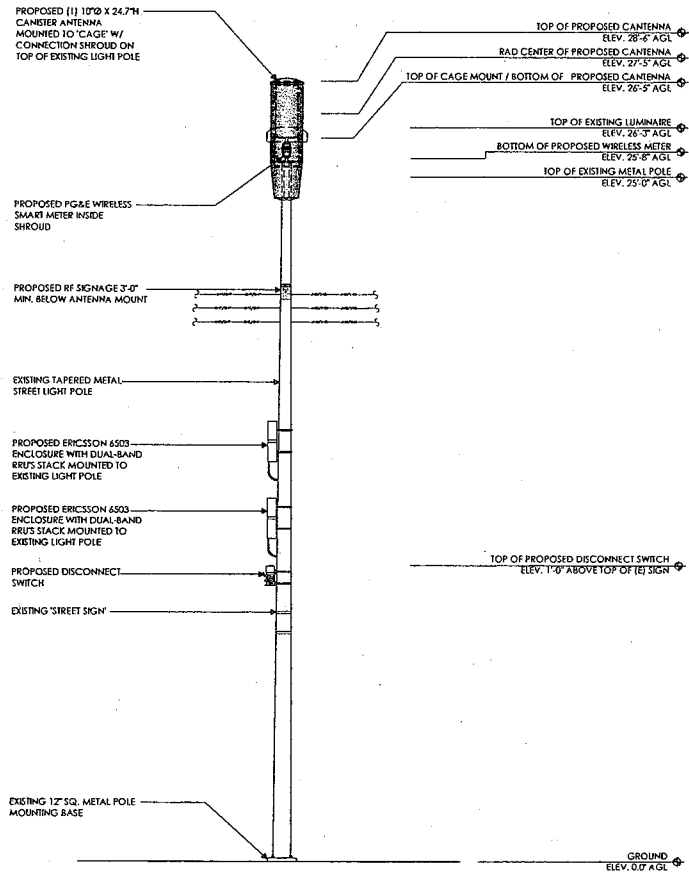
SCALE NOTE:
 IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE
 CORRECTLY CHECK FOR REDUCTION OR
 ENLARGEMENT FROM ORIGINAL PLANS.



NORTHWEST ELEVATION - EXISTING



NORTHWEST ELEVATION - PROPOSED

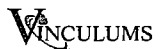


AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583

Client:



Project Architect:



573 LINDEN LANE
 SUITE 112
 WALNUT CREEK, CA 94598
 T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SF0K7-012

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Rev. Date Description

01 09/21/17 Zoning Drawg 90%

02 10/03/17 Zoning Drawg 95%

Project No.:

Date: 09/21/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

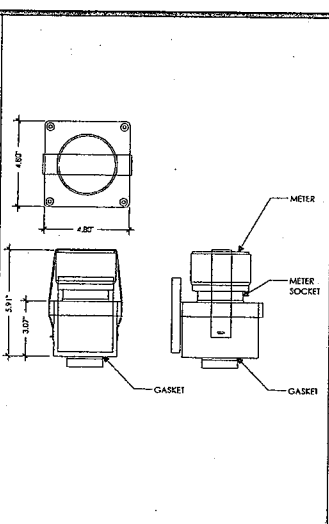
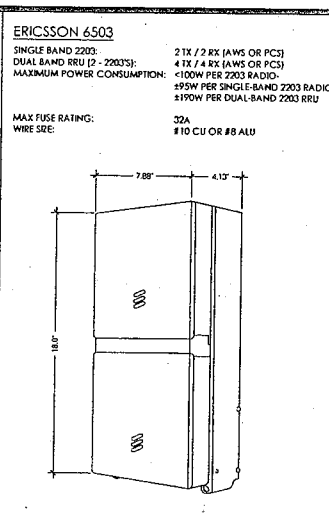
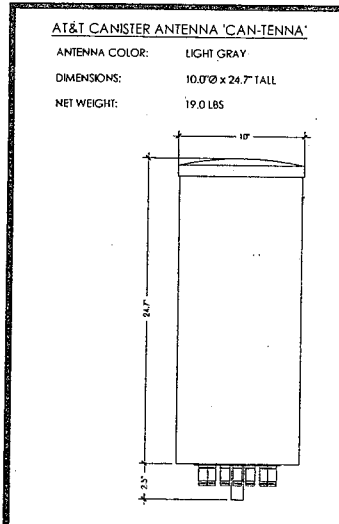
ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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NOTICE

Radio frequency fields beyond this point may exceed the FCC general public exposure limit.
 Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions of 47 CFR 1.1307.

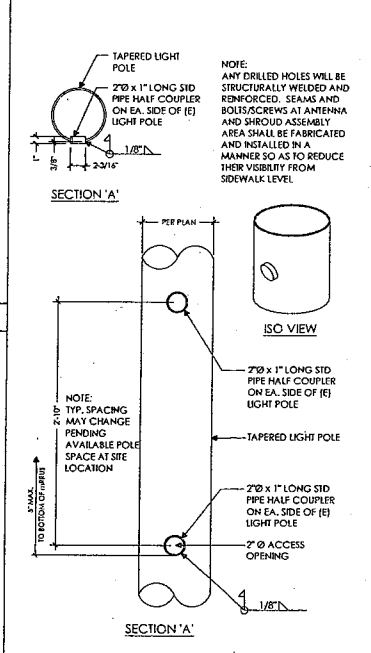
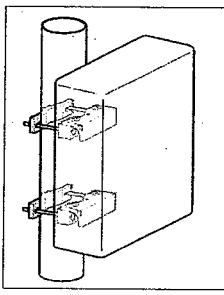
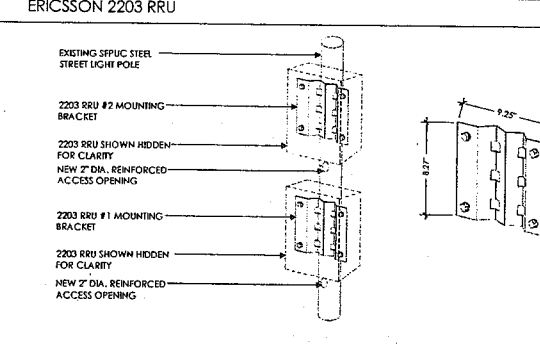
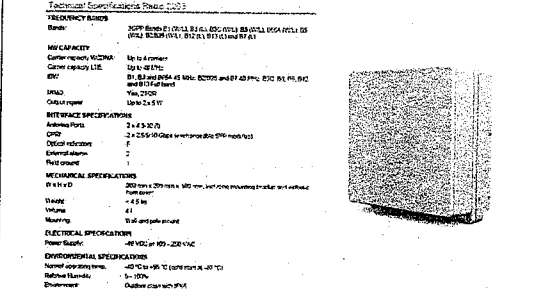
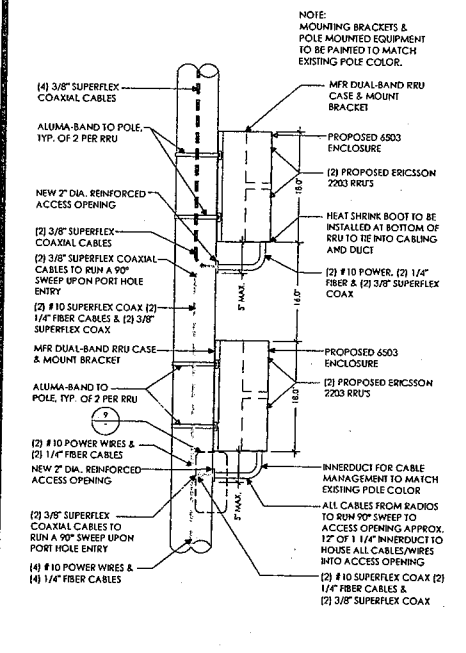
ANTENNA DETAIL 1

6503 RRU ENCLOSURE 2

PG&E WIRELESS SMART METER 3

DISCONNECT SWITCH 4

NOTICE SIGNAGE 7



DUAL BAND RRU MOUNT 2

6503 RRU-POLE MOUNTING DETAILS 2

ERICSSON 2203 RRU 5

DISCONNECT SWITCH 6

VERTICAL ACCESS PORT 9



AT&T Wireless
 5001 Executive Parkway
 San Ramon, CA 94583



Project Architect:



Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-012
 ROW AT 4640 TELEGRAPH AVENUE
 OAKLAND, CA 94609
 COUNTY: ALAMEDA

Professional Seal:

Rev.	Date	Description
01	09/21/17	Zoning Draw 90%
02	10/02/17	Zoning Draw 95%

Project No.:
 Date: 09/21/17 Job No.:
 Scale: AS SHOWN CAD File:
 Designed By: JG Checked: MB

EQUIPMENT DETAILS
 Sheet Title:

A.5

© Aesdon Management LLC 2017

view from Telegraph Avenue looking southeast at site

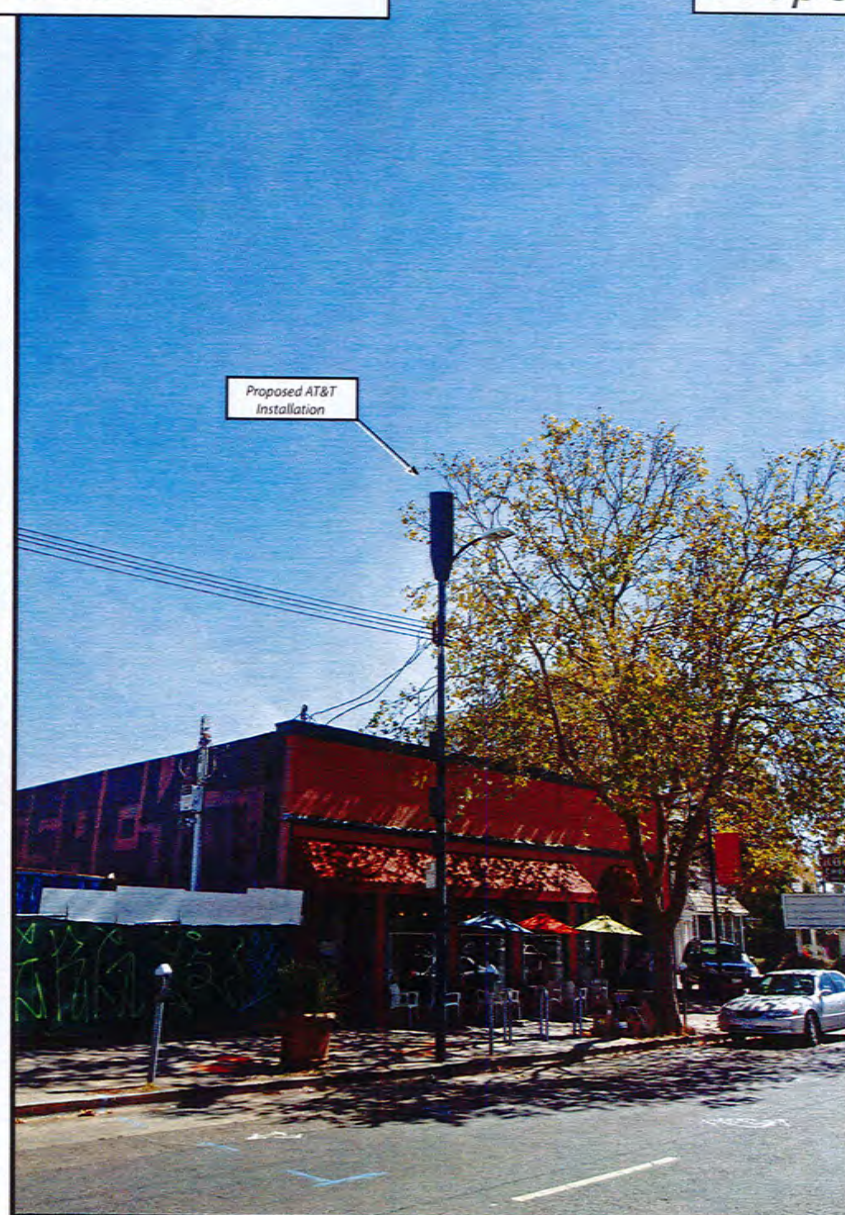


CRAN-RSFR-SFOK7-012
4640 Telegraph Avenue, Oakland, CA
Photosims Produced on 9-29-2017

Existing

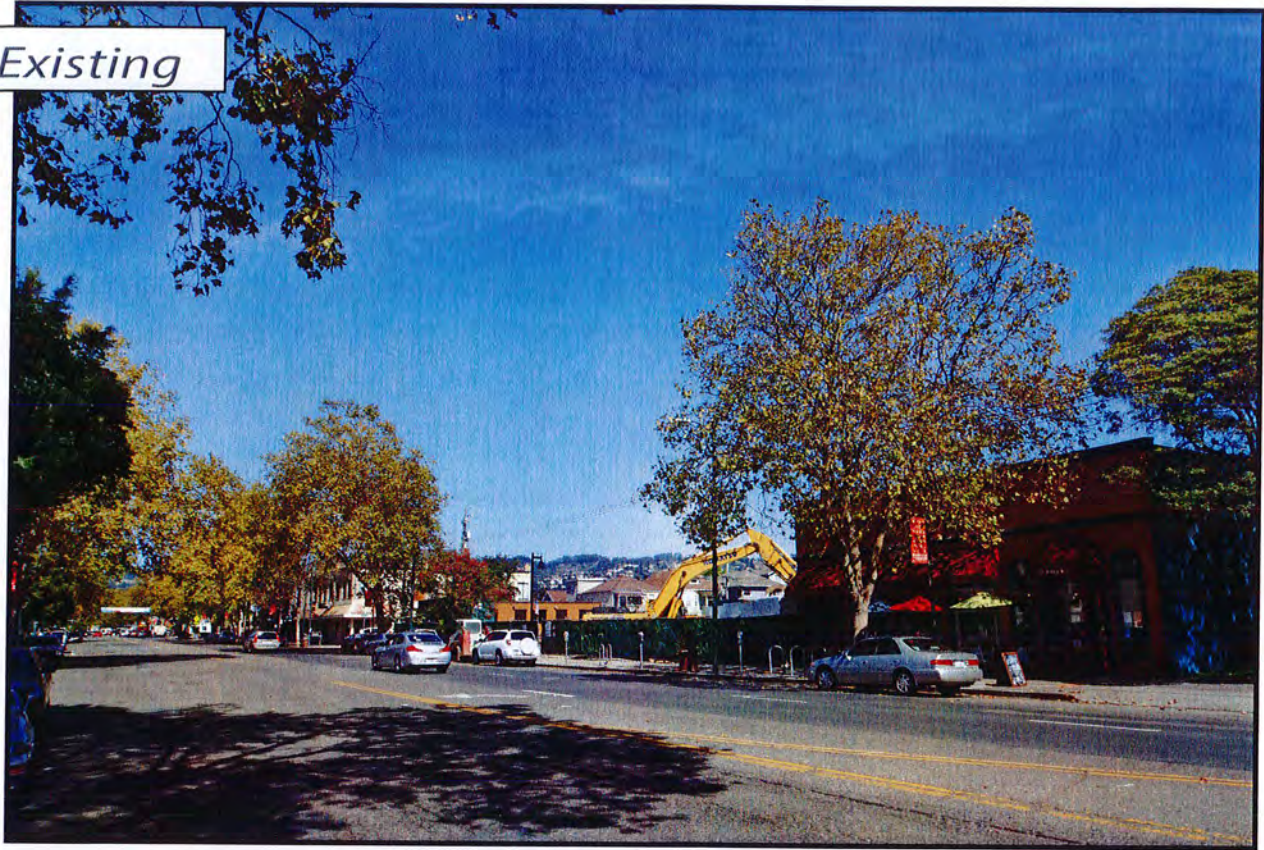


Proposed

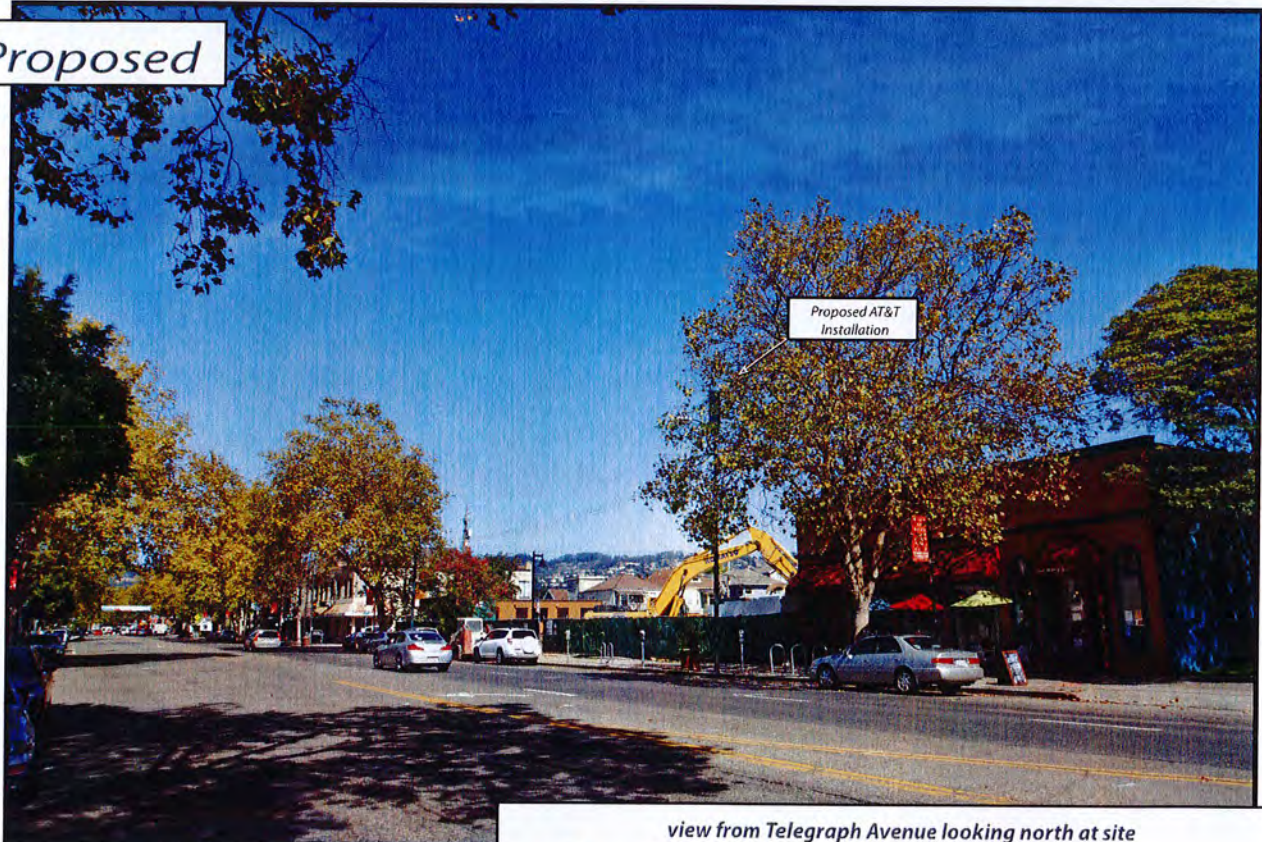


Proposed AT&T
Installation

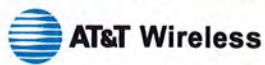
Existing



Proposed



view from Telegraph Avenue looking north at site



CRAN-RSFR-SFOK7-012
4640 Telegraph Avenue, Oakland, CA
Photosims Produced on 9-29-2017

Alternative Site Analysis – SFOK7_012



Node 12A:

- Primary candidate.
- Viable light pole that best meets RF objective.



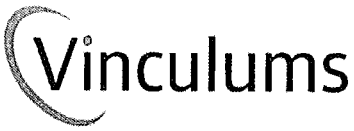
Node 12B:

- Potentially viable alternative.
- Less preferred due to exposure making the pole more visible and less desirable for aesthetics.



Node 12C:

- Potentially viable alternative.
- Less preferred due to exposure making the pole more visible and less desirable for aesthetics.



November 20, 2017

City Planner
Oakland Planning Dept.
250 Frank Ogawa Plaza
Oakland, CA 94612

Re: Proposed AT&T Small Cell Node Installation
Applicant: New Cingular Wireless PCS, LLC (dba AT&T Mobility)
Nearest Site Address: Public Right of Way near 4640 Telegraph Ave, Oakland, CA 94609
Site ID: CRAN RSFR SFOK7-012 ("Node 012")

Dear City Planner,

On behalf of New Cingular Wireless PCS, LLC (doing business as AT&T Mobility), this letter and attached materials are to apply for the appropriate Planning permit to install a small cell node in the public right-of-way at the above-referenced location ("Node 012" or the "Node").¹ The following is an explanation of the existing site, a project description of the designed facility, the project purpose and justifications in support of this proposal.

A. Project Description.

The proposed location for our facility currently consists of an approximate 25 feet tall City-owned light pole in the public right-of-way.

AT&T proposes to affix one canister antenna within an antenna shroud on top of the pole, extending up to a height of about 28.6 feet. On the pole between about 10 feet and 19 feet above ground, AT&T proposes to install two remote radio units and (if necessary) a miniature power disconnect switch. This facility or "Node" will be connected to underground fiber optic telecommunications lines and power. All equipment will be painted to match the pole. Our proposal is depicted in the attached design drawings and photographic simulations.

B. Project Purpose.

The purpose of this project is to provide AT&T third and fourth generation (3G and 4G) wireless voice and data coverage and capacity to the surrounding area. These wireless services include mobile telephone, wireless broadband, emergency 911, data transfers, electronic mail, Internet, web browsing, wireless applications, wireless mapping and video streaming. The proposed node is part of a larger small cell deployment providing wireless coverage and capacity to areas of Oakland that are otherwise very difficult or impossible to cover using traditional macro wireless telecommunications facilities.

¹ AT&T expressly reserves all rights concerning the city's jurisdiction to assert zoning regulation over the placement of wireless facilities in the public rights-of-way.



A small cell network consists of a series of radio access nodes connected to small telecommunications antennas, typically mounted on existing poles within the public rights-of-way, to distribute wireless telecommunications signals. Small cell networks provide telecommunications transmission infrastructure for use by wireless services providers. These facilities allow service providers such as AT&T to establish or expand their network coverage and capacity. The nodes are linked by fiber optic cable that carry the signal stemming from a central equipment hub to a node antenna.

C. Project Justification, Alternative Site and Design Analysis.

The proposed Node is an integral part of AT&T's overall small cell deployment to cover transient traffic along the roadways and provide in-building service to the surrounding area. Using an existing pole is the least intrusive means to meet AT&T's wireless coverage and capacity needs in the area. This Node best uses existing infrastructure, adding small equipment without disturbing the character of the neighborhoods served. Deploying a small cell node at an existing pole location minimizes any visual impact by utilizing an inconspicuous spot.

The small cell node RF emissions are also much lower than the typical macro site, they are appropriate for the area, and they are fully compliant with the FCC's requirements for limiting human exposure to radio frequency energy. The attached radio frequency engineering analysis provided by Hammett & Edison, Inc., Consulting Engineers, confirms that the proposed equipment will operate well within (and actually far below) all applicable FCC public exposure limits. The facility will also comply with California Public Utility Commission (CPUC) General Orders 95 (concerning overhead line design, construction and maintenance) and 170 (CEQA review) that govern utility use in the public right-of-way.

As this application seeks authority to install a wireless telecommunication facility, the FCC's Shot Clock Order² requires the city to issue its final decision on AT&T's application within 150 days. We respectfully request expedited review and approval of this application. Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,
VINCULUMS SERVICES, LLC

A handwritten signature in black ink, appearing to read "Matthew S. Yergovich".

Matthew S. Yergovich
FOR AT&T MOBILITY

² See Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B), WT Docket No. 08-165, Declaratory Ruling, 24 F.C.C.R. 13994 (2009).

AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SFOK7-012)
4640 Telegraph Avenue • Oakland, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate its small cell (No. CRAN-RSFR-SFOK7-012) proposed to be sited in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Executive Summary

AT&T proposes to install an omnidirectional cylindrical antenna on a light pole sited in the public right-of-way at 4640 Telegraph Avenue in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission ("FCC") evaluate its actions for possible significant impact on the environment. A summary of the FCC's exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000–80,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called "radios") that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means



AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SF0K7-012)
4640 Telegraph Avenue • Oakland, California

that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

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

Site and Facility Description

Based upon information provided by AT&T, including drawings by Meridian Management LLC, dated September 21, 2017, it is proposed to install one Galtronics Model P6480, 2-foot tall, omnidirectional cylindrical antenna, on top of an existing light pole sited in the public right-of-way on the east side of Telegraph Avenue, opposite 47th Street, in front of the building located at 4640 Telegraph Avenue. The antenna would employ no downtilt and would be mounted at an effective height of about 27½ feet above ground. The maximum effective radiated power in any direction would be 80 watts for PCS service. There are reported no other wireless telecommunications base stations at this site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.0011 mW/cm², which is 0.11% of the applicable public exposure limit. The maximum calculated level at any nearby building is 0.30% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

No Recommended Mitigation Measures

Due to its mounting location and height, the AT&T antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The occupational limit is calculated to extend 4 inches from the antenna and, due to this short distance, the proposed operation is considered intrinsically compliant with that limit.

AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SF0K7-012)
4640 Telegraph Avenue • Oakland, California

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by AT&T Mobility, at 4640 Telegraph Avenue in Oakland, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating small cells.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2019. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



William F. Hammett, P.E.
707/996-5200

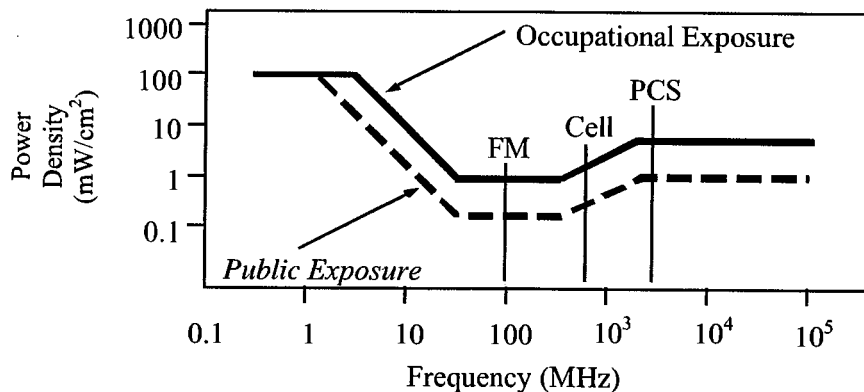
November 3, 2017

FCC Radio Frequency Protection Guide

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

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

Frequency Applicable Range (MHz)	Electromagnetic Fields (<i>f</i> is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/ <i>f</i>	<i>823.8/f</i>	4.89/ <i>f</i>	<i>2.19/f</i>	900/ <i>f²</i>	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√ <i>f</i>	<i>1.59√f</i>	√ <i>f</i> /106	<i>√f/238</i>	<i>f/300</i>	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



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



RFR.CALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

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

Near Field.

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

For a panel or whip antenna, power density $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

where θ_{BW} = half-power beamwidth of the antenna, in degrees, and

P_{net} = net power input to the antenna, in watts,

D = distance from antenna, in meters,

h = aperture height of the antenna, in meters, and

η = aperture efficiency (unitless, typically 0.5-0.8).

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

Far Field.

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

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

where ERP = total ERP (all polarizations), in kilowatts,

RFF = relative field factor at the direction to the actual point of calculation, and

D = distance from the center of radiation to the point of calculation, in meters.

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





NO
PARKING
12AM TO 3AM
TUES - THURS - SAT
STREET SWEEPING

NOTICE
OAKLAND

EXIT ONLY

NO PARKING