

**Item #5, PLN16404, was  
continued from the  
March 1, 2017,  
Planning Commission  
Meeting.**

**Case File Number: PLN16-404**

**March 1, 2017**

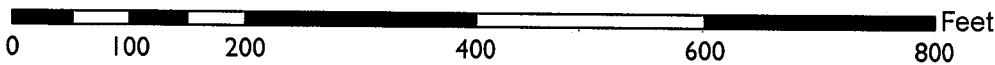
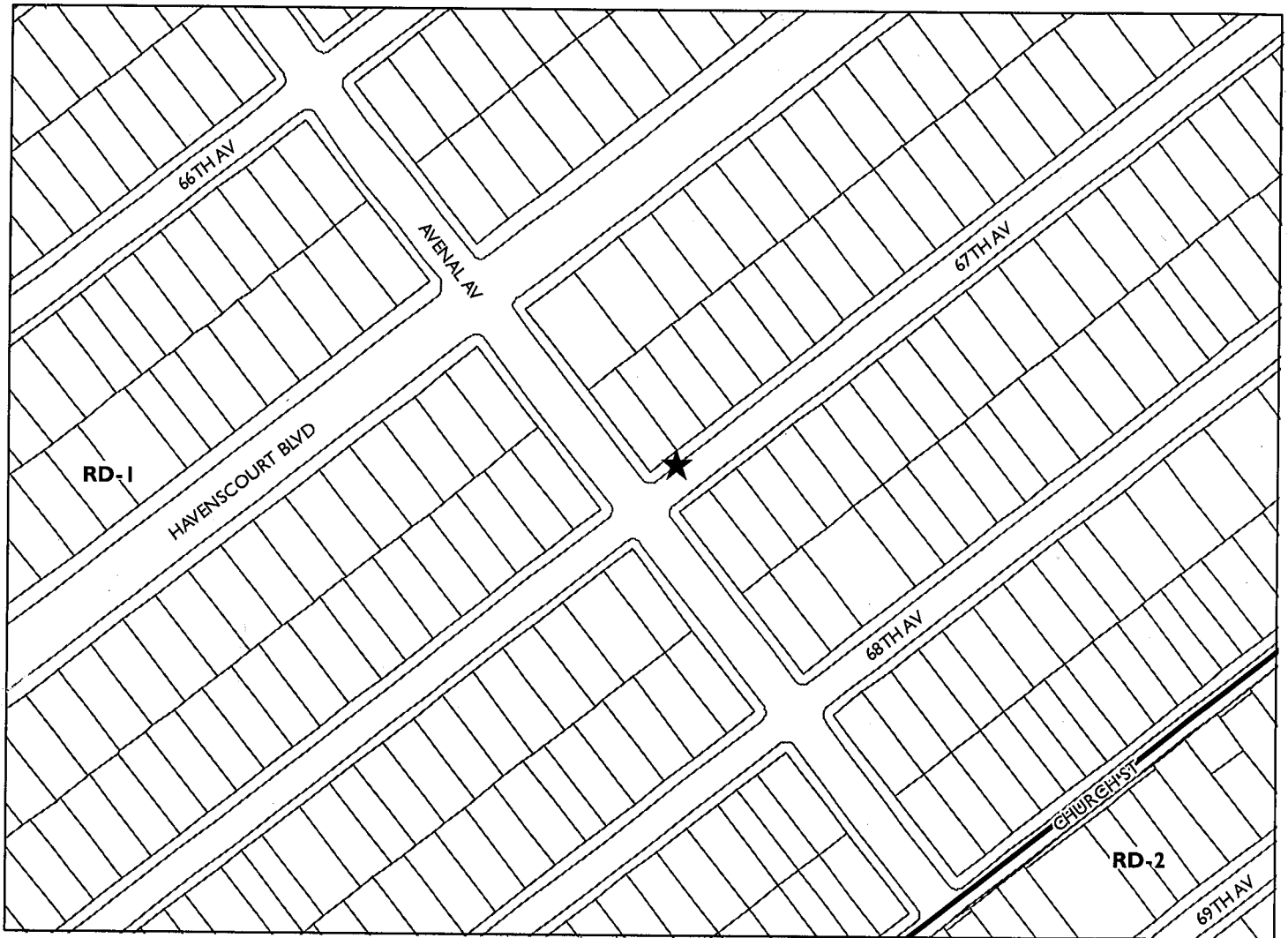
<b>Location:</b>	<b>The public Right of Way in front of 2401 67<sup>th</sup> Avenue on a PG&amp;E Utility /Telephone Pole (See map on reverse)</b>
<b>Assessor Parcel Numbers:</b>	<b>(039- 3260-028-00) nearest lot adjacent to the project site.</b>
<b>Proposal:</b>	Installation of a wireless telecommunication facility on a 37' tall wooden utility pole located in the public right-of-way. The project involves installation of one (1) canister antenna (23.5" long and 7.9" in diameter) at a height of 18' and two radio units (7.9" tall and 7.9" wide) 10'-6" and 13'-11" above ground.
<b>Applicant:</b>	Black & Veatch for Extenet Systems
<b>Contact Person/ Phone Number:</b>	Ana Gomez of Black & Veatch (913) 458-9148
<b>Owner:</b>	Pacific Gas & Electric (PG&E)
<b>Case File Number:</b>	<b>PLN16-404</b>
<b>Planning Permits Required:</b>	Major Design Review to install a wireless Macro Telecommunications Facility on an existing PG&E pole located in the public right -of- way in a residential zone.
<b>General Plan:</b>	Detached Unit Residential
<b>Zoning:</b>	RD-1 Detached Unit Residential.
<b>Environmental Determination:</b>	Exempt, Exempt, Section 15301 of the State CEQA Guidelines; minor additions and alterations to an existing PG&E utility pole; Section 15303, new construction or conversion of small structures; Section 15183, projects consistent with a community plan, general plan or zoning.
<b>Historic Status:</b>	No Historic Record – Utility Pole
<b>Service Delivery District:</b>	4
<b>City Council District:</b>	6
<b>Date Filed:</b>	October 4, 2016
<b>Finality of Decision:</b>	Appealable to City Council within 10 Days
<b>For Further Information:</b>	Contact case planner Jason Madani at (510) 238-4790 or <a href="mailto:jmadani@oaklandnet.com">jmadani@oaklandnet.com</a>

**SUMMARY**

The project applicant (Extenet Systems) is proposing to install a wireless telecommunication facility on an existing 37' tall wooden PG&E utility pole located in the public right-of-way near 2401 67<sup>th</sup> Avenue. The project involves installation of one (1) canister antenna located within antenna shroud and two radio units (7.9" tall and 7.9" wide) mounted at a height of 10'-6" and 13'-11" above ground.

Major Design Review is required for the installation of a new Macro Telecommunications Facility in a residential zone. The proposed antenna and associated equipment are compatible with the existing PG&E utility pole and typical of utility infrastructure normally found on these poles. The proposed antenna will be extended toward the street and painted a gray or brown color to blend with the site. As result, the proposed telecommunication facility is in an

# CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN16404  
Applicant: Black & Veatch for Extenet Systems  
Address: The public Right of Way in front of  
2401 67th Ave on a JPA Utility Pole  
Zone: RD-1

color to blend with the site. As result, the proposed telecommunication facility is in an appropriate location and would not significantly increase negative visual impacts to adjacent neighboring residential properties. The proposed project meets all the required findings for approval of this project.

## **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:

- 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 existing 37' high PG&E utility pole is in the City of Oakland public right-of-way and is 26' away from an adjacent two-story residential building at 2401 67<sup>th</sup> Avenue.

### **PROJECT DESCRIPTION**

The applicant is proposing to install a telecommunication facility on an existing PG&E utility pole located within in the public right-of-way (Attachment A). The project involves:

- Installation of one canister antenna measuring 23.5" long and 7.9" in diameter at a height of 18'.
- Installation of two radio units (7.9" tall and 7.9" wide) mounted 10'-6" and 13'-11" above ground.
- Installation of a breaker box and smart meter mounted to the pole 8' above ground.
- Painting the proposed antennas and associated equipment grey or brown to match the pole and/or other utilities located on the pole.

No portion of the telecommunication facilities will be located on the ground. The proposed antenna and associated equipment will not be accessible to the public.

### **GENERAL PLAN ANALYSIS**

The site is classified Detached Unit Residential per the Oakland General Plan's Land Use and Transportation Element (LUTE). This classification is intended to create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by detached, single unit structures. "Future development within this classification should be primarily residential in character."

The proposed telecommunication facilities will be mounted on an existing PG&E utility pole within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the characteristics of the neighborhood.

## **ZONING ANALYSIS**

The proposed telecommunication facility is located within the RD-1 Detached Unit Residential Zone. The intent of the RD-1 Zone is to create, maintain, and enhance areas with detached, single unit structures.

Section 17.136.040 and 17.128.070 of the City of Oakland Planning Code requires a Major Design Review permit for Macro Telecommunication facilities that are attached to utility poles in the RD-1 Zone or that are located within one hundred (100) feet of the boundary of any residential zone. Special findings are also required for Design Review approval to ensure that the facility is concealed to the greatest extent possible. The project design is discussed later in the Key Issues section of this report, and the required findings for Major Design Review are listed and included in staff's evaluation later in this report.

## **ENVIRONMENTAL DETERMINATION**

The California Environmental Quality Act (CEQA) Guidelines lists 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 PG&E utility pole; Section 15303, new construction or conversion of small structures, and Section 15183, projects consistent with a community plan, general plan or zoning.

## **KEY ISSUES AND IMPACTS**

### **Project Site**

Section 17.128.110 of the City of Oakland Telecommunication Regulations requires that new wireless facilities shall generally be located on designated properties or facilities in the following ranked 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 non-residential zones (excluding all HBX Zones and the D-CE3 and D-C-4 Zones).
- D. Existing commercial or industrial structures in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- E. Other non-residential uses in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- F. Residential uses in non-residential 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 sited on an A, B or C ranked preference do not require a site alternatives analysis. Since the proposed project involves the installation of a new antenna on an existing PG&E utility pole located within RD-1 Zone, the proposed project meets preferences B, and a site alternatives analysis is not required. However, the applicant has provided a site alternatives analysis (Attachment B).

**Alternative Site Analysis:**

The project is in an area with existing residential structures. The project applicant considered alternative sites on other utility poles in this area but none of these sites are as desirable from a service coverage perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area. The proposed location is approximately equidistant from other Distributed Antenna Systems (DAS) nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Staff has reviewed the applicant's alternative sites analysis and determined that the site selected conforms to the telecommunication regulation requirements. In addition, staff agrees that no other sites are more suitable.

**Project Design**

Section 17.128.120 of the City of Oakland Telecommunications Regulations requires that 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 the public right-of-way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from the 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 and 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. The site design alternatives analysis shall, at a minimum, consist of:

Written evidence indicating why each 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).

Since the proposed project does not meet preference A and B, a site design alternatives analysis is required.

**Alternative Design Analysis:**

The project applicant submitted an alternative design analysis (Attachment B). The analysis evaluated whether the equipment could be undergrounded and concealed from view. Unfortunately, this is not possible because there is insufficient right-of-way space for the necessary equipment access and the equipment would be compromised by rainwater saturation.

The proposed antenna design is approximately equidistant from other DAS (Distributed Antenna Systems) nodes proposed in the surrounding area so that service coverage can be evenly distributed. The proposed design is a good option because the facility is located where a signal can be adequately propagated without obstruction, which could not have been the case if the antenna was located on a building and concealed.

Planning staff has reviewed the applicant's alternative design analysis and determined that the site selected conforms to the telecommunication regulation requirements. Specifically, given the flat topography, streamlined equipment design, and location of the existing utility pole approximately 26' away from a two-story single-family dwelling, the facility will blend in with the existing PG&E utility pole apparatus. Furthermore, the proposed new antenna is located within a shroud screening mounted onto the PG&E utility pole 18' above ground and the two radio units will be attached to the pole at 10'-6" and 13'-11" in height above the ground. Finally, the shroud and radio units will be painted gray to match the other utilities or brown to match the pole.

### **Project Radio Frequency Emissions Standards**

Section 17.128.130 of the City of Oakland Telecommunication Regulations requires that the applicant submit the following verifications including requests for modifications to existing facilities:

- a. The telecommunications regulations require that the applicant submit written documentation demonstrating that the emission from the proposed project are within the limits set by the Federal Communications Commission.
- b. 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.

In the RF emissions report (Attachment C) prepared by Hammett & Edison, the proposed project was evaluated for compliance with appropriate guidelines limiting human exposure to radio frequency electromagnetic fields. According to the report on the proposal, the project will comply with the prevailing standards for limiting public exposure to radio frequency energy, and therefore, the proposed site will operate within the current acceptable thresholds as established by the Federal government or any such agency that may be subsequently authorized to establish such standards. The RF emissions report also states that the proposed project will not cause a significant impact on the environment. Additionally, staff recommends that prior to the final building permit sign off, the applicant submit a certified RF emissions report stating that the facility is operating within acceptable thresholds established by the regulatory federal agency.

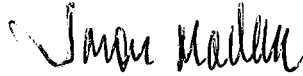
**CONCLUSION**

The proposed project meets all the required findings for approval. The proposal will provide an essential telecommunication services to the community and the City of Oakland at large. It will also be available to emergency services such as police, fire department and emergency response teams. Staff believes that the proposal is designed to meet the established zoning and telecommunication regulations and recommends supporting the Major Design Review application.

**RECOMMENDATIONS:**

1. Affirm staff's environmental determination, and
2. Approve the Design Review application, subject to the attached findings and conditions of approval.

Prepared by:



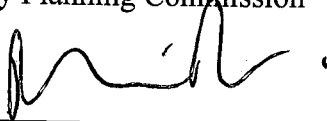
Jason Madani  
Planner II

Reviewed by:



Scott Miller  
Zoning Manager

Approved for forwarding to the  
City Planning Commission



Darin Ranelletti, Interim Director  
Department of Planning and Building

**ATTACHMENTS:**

- A. Project Plans & Photo simulations
- B. Site & Design Alternative Analysis
- C. Hammett & Edison, Inc., Consulting Engineering RF Emissions Report

**FINDINGS FOR APPROVAL****FINDINGS FOR APPROVAL:**

This proposal meets all the required findings under Section 17.136.050(B), of the Non-Residential Design Review criteria and all the required findings under Section 17.128.070(B), of the telecommunication facilities (Macro) Design Review criteria and as set forth below: Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

**17.136.050(B) – NONRESIDENTIAL DESIGN REVIEW CRITERIA:**

**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;**

The proposal is to install one telecommunication canister antenna on an existing, wooden, PG&E utility pole 18' above ground with the associated equipment mounted to the pole at 10'-6" and 13'-11" high and above (breaker box and smart meter). Given the flat topography, slim equipment design, and proposal to paint the equipment, the facility will blend in with, and be typical of, utility apparatus already located on the pole. In addition, the facility is located approximately 26' away from a two-story single family dwelling. Finally, the proposed antennas and radio units will be located high up on the pole and oriented toward the street. Therefore, the proposal will have minimal visual impacts from public views.

**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;**

The proposal improves wireless telecommunication service in the residential area. The facility will be camouflaged by the slim antenna canister and painted gray or brown color to blend in with the existing surrounding area and have minimal visual impacts on public views and protect the value of private and public investments in the area. Service will also be available to emergency services such as police, fire department and emergency response teams.

**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.**

The site is classified as Detached Unit Residential per the Oakland General Plan's Land Use and Transportation Element (LUTE). This classification is intended to create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by detached, single unit structures. "Future development within this classification should be primarily residential in character."

Section 17.128.120 of the City of Oakland Telecommunications Regulations describes the design criteria for wireless facilities. In general, these facilities should either be concealed from view or not visible from the public right of way. Since the project did not meet either ranked criteria, but did meet criteria C as described above, an alternative site design study needed to be undertaken. The analysis shows that the proposed pole will be similar to other utility poles within same block and throughout the City. The proposed antenna and associated related equipment are compatible with and typical of the utility equipment on these poles. The proposed antenna will be extended toward street and away from the home at 2401 67<sup>th</sup> Avenue and painted to match either the pole or utilities. As result, the proposal is consistent telecommunication regulation requirements, is in an appropriate location, and of an appropriate design that would not significantly increase negative visual impacts to adjacent neighboring residential properties

### **17.128.070(B) DESIGN REVIEW CRITERIA FOR MACRO FACILITIES**

#### **1. Antennas should be painted and/or textured to match the existing structure:**

The proposed antenna and related equipment will be painted gray or brown to match the PG&E utility pole and blend with the surroundings.

#### **2. Antennas mounted on architecturally significant structures or significant architectural details of the building should be covered by appropriate casings which are manufactured to match existing architectural features found on the building:**

The proposed antennas will not be mounted on a building or architecturally significant structure, but rather on a PG&E utility pole.

#### **3. Where feasible, antennas can be placed directly above, below or incorporated with vertical design elements of a building to help in camouflaging:**

The proposed antenna will be mounted on an existing PG&E utility pole and painted gray or brown to match the utility pole. As a result, the facility will be camouflaged to blend-in with existing surrounding area. The facility will also be located approximately 10'-6" and 13'-11" above ground and head height to minimize visual impacts.

#### **4. Equipment shelters or cabinets shall be screened from the public view by using landscaping, or materials and colors consistent with surrounding backdrop:**

The associated equipment will be attached to an existing utility pole, oriented toward the street and painted to match pole in order to blend with the surroundings. The antenna will be located within an antenna shroud.

#### **5. Equipment shelters or cabinets shall be consistent with the general character of the area.**

The proposed equipment will be compatible with the existing PG&E pole and other utility equipment located on the pole.

**6. For antennas attached to the roof, maintain a 1:1 ratio for equipment setback; screen the antennas to match existing air conditioning units, stairs, or elevator towers; avoid placing roof mounted antennas in direct line with significant view corridors.**

N/A

**7. 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 one telecommunication canister antenna will be placed within an antenna shroud mounted on an existing, wooden, PG&E utility pole 18' above ground. The radio units will be located approximately 10'-6" and 13'-11" above ground, while the equipment above the breaker box and smart meter will be located 8' above the ground. None of the equipment will be accessible to the public due to its location.



**STANDARD CONDITIONS:**

**1. Approved Use**

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, and the approved plans dated **September 27, 2016** and submitted on **October 4, 2016** as amended by the following conditions of approval and mitigation measures, if applicable (“Conditions of Approval” or “Conditions”).

**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 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 Management**

***Prior to issuance of a demolition, grading, and/or construction permit***

The project applicant may be required to pay for on-call special inspector(s)/inspections as needed during the times of extensive or specialized plan check review, or construction. The project applicant may also be required to cover the full costs of independent technical and other types of peer review, monitoring and inspection, including without limitation, third party plan check fees, including inspections of violations of Conditions of Approval. The project applicant shall establish a deposit with the Building Services Division, as directed by the Building Official, Director of City Planning or designee.

**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. Days/Hours of Construction Operation**

***Ongoing throughout demolition, grading, and/or construction***

The project applicant shall require construction contractors to limit standard construction activities as follows:

- a) Construction activities are limited to between 7:00 AM and 7:00 PM Monday through Friday, except that pile driving 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. Monday through Friday.
- b) Any construction activity proposed to occur outside of the standard hours of 7:00 am to 7:00 pm Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the

overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

- c) Construction activity shall not occur on Saturdays, with the following possible exceptions:
  - i. Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division.
  - ii. After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed.
- d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.
- e) No construction activity shall take place on Sundays or Federal holidays.
- f) 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.

**14. Radio Frequency Emissions**

*Prior to the final building permit sign off.*

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

**15. Camouflage**

Requirement: The antenna shall be painted, texturized, and maintained matte silver, and the equipment and any other accessory items including cables matte brown, to better camouflage the facility to the utility pole and attached power line posts.

When Required: Prior to a final inspection

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

**16. Operational**

**Ongoing.**

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.

**17. Possible District Undergrounding PG&E Pole**

**Ongoing**

Should the PG &E utility pole be voluntarily removed for purposes of district undergrounding or otherwise, the telecommunications facility can only be re-established by

applying for and receiving approval of a new application to the Oakland Planning Department as required by the regulations.

**Applicant Statement**

I have read and accept responsibility for the Conditions of Approval. I agree to abide by and conform to the Conditions of Approval, as well as to all provisions of the Oakland Planning Code and Oakland Municipal Code pertaining to the project.

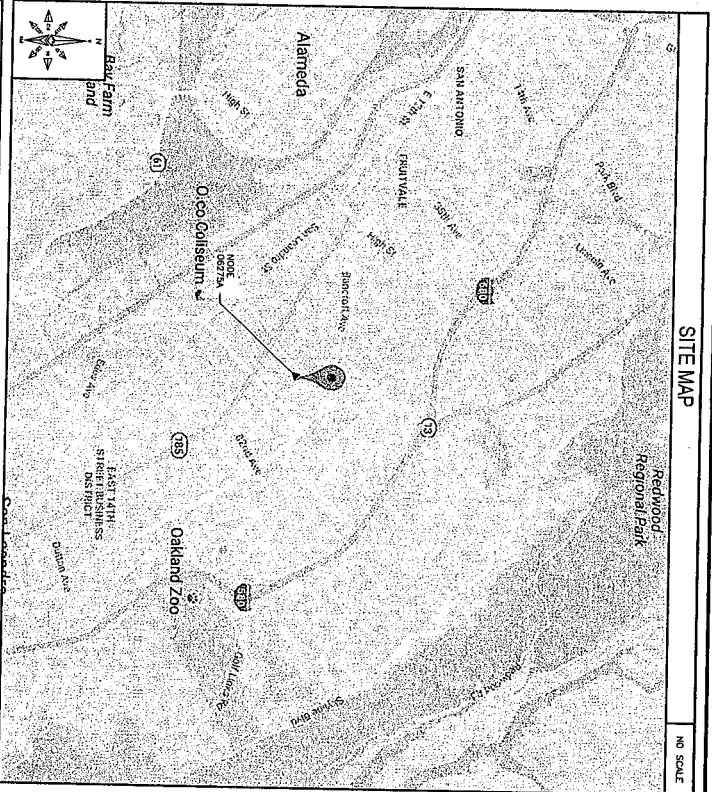
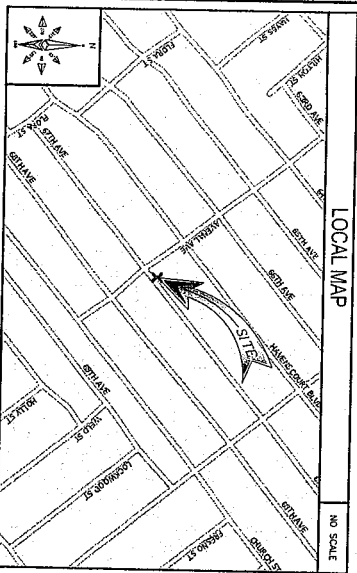
\_\_\_\_\_  
Name of Project Applicant

\_\_\_\_\_  
Signature of Project Applicant

\_\_\_\_\_  
Date

# NW-CA-SANFRMNC 06275A

ADJACENT TO (IN PROW)  
2401 67TH AVENUE  
OAKLAND, CA 94605



SHEET INDEX	
SHEET NO:	T-1
TITLE SHEET	GENERAL NOTES AND LEGEND
GN-1	GENERAL NOTES AND LEGEND
C-1	OVERALL SITE PLAN
C-2	UTILITY POLE PLACEMENTS AND Riser DETAILS
C-3	EQUIPMENT DETAILS
C-4	EQUIPMENT DETAILS

POLE OWNER	
OWNER:	EXTENET SYSTEMS CA, LLC
ADDRESS:	2000 CROW CANYON PL., SUITE 210 SAN RAMON, CA 94583
PHONE:	

PROJECT INFORMATION	
<b>APPLICANT</b>	
COMPANY:	EXTENET SYSTEMS (CALIFORNIA), LLC
CONTACT:	MATTHEW YEROKICH
ADDRESS:	2000 CROW CANYON PLACE, SUITE 210 SAN RAMON, CA 94583
PHONE:	(415) 586-3474
E-MAIL:	EXTENETSYSTEMS.COM
<b>AGENT</b>	
COMPANY:	BLACK & VEATCH
CONTACT:	AMY GOMEZ
ADDRESS:	2309 BAY ROAD, WALNUT CREEK, CA 94597
PHONE:	(925) 896-0751
E-MAIL:	EXTENET@BVA.COM
<b>PROJECT DATA</b>	
LATITUDE:	37.752995
LONGITUDE:	-122.186827
PLC #:	110135498
ELEVATION:	MA
ZONING JURISDICTION:	CITY OF OAKLAND
NEAREST A.P.N.:	89-11
OCCUPANCY:	U, UNMANNED
CONSTRUCTION TYPE:	ATTACHMENTS TO A WOOD UTILITY
TITLE 24 REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN OCCUPATION. THIS PROJECT IS EXEMPT.

CODE COMPLIANCE	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS GOVERNING AUTHORITIES (AS APPLICABLE) AND THE LOCAL THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
1:	IBC - 2012
2:	CALIFORNIA BUILDING STANDARDS CODE - 2013
3:	CALIFORNIA ELECTRICAL CODE 2013
4:	CALIFORNIA MECHANICAL CODE 2013
5:	CALIFORNIA PLUMBING CODE 2013
6:	CITY AND COUNTY OF OAKLAND
7:	CPY AMERICAN WIRE CODES
8:	2012 INTERNATIONAL FIRE CODE
9:	INTERNATIONAL WIRE CODE
10:	INTERNATIONAL WIRE CODE

PROJECT DESCRIPTION	
THESE DRAWINGS DEPICT THE INSTALLATION OF A WIRELESS NETWORK AND ANGLARY EQUIPMENT TO BE INSTALLED AS DESCRIBED HEREIN.	

GENERAL PROJECT NOTES	
1:	BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PROJECT AND ALL CONDITIONS AFFECTING THE NEW PROJECT.
2:	CONTRACTORS SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CORRECTLY IDENTIFY WORK AS ACCOMPANIED AS SHOWN FROM TO COMMENCEMENT OF ANY WORK.
3:	ALL FIELD MODIFICATIONS BEFORE, DURING OR AFTER SYSTEMS INSTALLATION SHALL BE APPROVED IN WRITING BY AN EXTENET SYSTEMS REPRESENTATIVE.
4:	INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.
5:	NOTIFY EXTENET SYSTEMS, IN WRITING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, OR FIELD CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM EXTENET SYSTEMS REPRESENTATIVE, AND ADJUSTING THE BID.
6:	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES OF THE WORK UNDER THE CONTRACT.
7:	CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING IMPROVEMENTS AND FINISHES TO THE SATISFACTION OF AN EXTENET SYSTEMS REPRESENTATIVE.
8:	CONTRACTOR PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE FOLLOWING THE FINAL INSPECTION BY EXTENET OR WITH ONE COPY OF ALL REVISIONS TO THESE DRAWINGS.
9:	VERIFY ALL FINAL EQUIPMENT WITH AN EXTENET SYSTEMS REPRESENTATIVE. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE LOCATION AS TO BE RESPONSIBLE FOR OBTAINING HIS/HER WORK WITH THE MANUFACTURER'S RECOMMENDATIONS REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.

PROJECT INFORMATION	
<b>APPLICANT</b>	
COMPANY:	EXTENET SYSTEMS (CALIFORNIA), LLC
CONTACT:	MATTHEW YEROKICH
ADDRESS:	2000 CROW CANYON PLACE, SUITE 210 SAN RAMON, CA 94583
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NEAREST A.P.N.:	89-11
OCCUPANCY:	U, UNMANNED
CONSTRUCTION TYPE:	ATTACHMENTS TO A WOOD UTILITY
TITLE 24 REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN OCCUPATION. THIS PROJECT IS EXEMPT.

**extenet**  
connectivity  
Engineering  
Systems

**BLACK & VEATCH**  
A WOOD GROUP COMPANY  
2309 BAY ROAD  
SUITE 480  
WALNUT CREEK, CA 94597

DATE: \_\_\_\_\_  
CONSTRUCTION SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_

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

IF IT IS A MODIFICATION OF LAW FOR ANY REASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS TO ALTER THE DOCUMENT.

**PRELIMINARY**

EXTENET SYSTEMS (CA) LLC  
2000 CROW CANYON PLACE  
SAN RAMON, CA 94583

SITE ADDRESS  
ADJACENT TO (IN PROW)  
2401 67TH AVENUE  
OAKLAND, CA 94605

SHEET TITLE  
T-1

SHEET NUMBER  
T-1

**GENERAL NOTES**

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THESE PLANS AND IN THE CONTRACT DOCUMENTS.
3. FROM THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL ASSUME THE RESPONSIBILITY AND BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
4. ALL WORK SHALL BE SUBJECT TO THE SUPERVISION AND CONTROL OF THE PROJECT ENGINEER.
5. ALL WORK SHALL BE SUBJECT TO THE SUPERVISION AND CONTROL OF THE PROJECT ENGINEER.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO WATER, GAS, SEWER, TELEPHONE, AND CABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
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**DEFINITIONS**

1. "THE" OR "THEY" MEANS THAT THE IDEA IS SUBSTANTIALLY THE SAME ACROSS SINGULAR CONDITIONS. THE EXCEPTION OF CONSIDERATION OF SINGULAR CONDITIONS.
2. "SINGLE" MEANS COMPATIBLE TO CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
3. "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS OR REFERENCED STANDARDS. BY EXISTING CONDITIONS, OR SPECIFICALLY ACCEPTED REGULATORY PRACTICE, OR BY THE CONTRACT DOCUMENTS.
4. "TYPICAL" CHECKS OCCUR FREQUENTLY LOCAL FRESH FACES OF MATERIALS IN THE SAME PLACE.
5. "FIELD" MEANS "ON SITE" OR "IN PLACE" SHALL BE UNDERSTOOD TO MEAN "VERY" IN FIELD WITH ENGINEER AND RECEIVING AGENCY. THE CONTRACTOR SHALL OBTAIN APPROVAL OF ANY DEVIATION TO THIS SPECIFICATION FROM THE PROJECT ENGINEER AND RECEIVING AGENCY. THE CONTRACTOR SHALL OBTAIN APPROVAL OF ANY DEVIATION TO THIS SPECIFICATION FROM THE PROJECT ENGINEER AND RECEIVING AGENCY.
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**FIELD WELDING NOTES:**

1. WELDING TO BE PERFORMED BY AN CERTIFIED WELDER FOR THE TYPE OF JOBS AND POSITION INDICATED. ALL WORK MUST BE IN COMPLIANCE WITH LATEST EDITION OF AWS D1.1.
2. GROUND SURFACES TO BE WELDED WITH A SQUARED CHARGE WHEEL FEED TO WELDING TO REMOVE ALL BURRS AND SPATTER. WELDS SHALL BE COMPLETED BY THE WELDER. WELDER SHALL WEAR APPROPRIATE PROTECTIVE EQUIPMENT.
3. WELDING TECHNIQUE MUST MAINTAIN TEMPERATURE RISE ON THE INSIDE SURFACE OF THE JOINT AND ALSO MAINTAIN PROPER PENETRATION. WELDS SHALL BE COMPLETED BY THE WELDER. WELDER SHALL WEAR APPROPRIATE PROTECTIVE EQUIPMENT.
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**ANTENNA MOUNTING**

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/ISA-222 OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE QUANTIFIED AFTER FABRICATION IN ACCORDANCE WITH ASTM A133. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
3. ALL BOLTS, NUTS AND WASHERS SHALL BE QUANTIFIED IN ACCORDANCE WITH ASTM A133. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
4. QUANTIFIED GALVANIZED SURFACES SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ASTM A980. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
5. ALL ANTENNA MOUNTING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ASTM A980. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.
6. CONDUCTOR SHALL BE INSTALLED WITHIN THE MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND OPERATION.
7. PRIOR TO SETTING ANTENNA ASSEMBLY AND COMPONENTS, ANTENNA CONSTRUCTION SHALL CHECK THE ANTENNA, MOUNT AND BE INSTALLED WITHIN THE MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND OPERATION.

**TORQUE REQUIREMENTS**

1. ALL TORQUE CONNECTIONS SHALL BE TORQUED BY A TORQUE WRENCH.
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12. ALL TORQUE CONNECTIONS SHALL BE TORQUED BY A TORQUE WRENCH.

**ROW UTILITY POLE CONSTRUCTION NOTES**

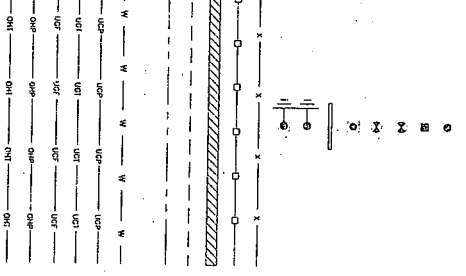
1. NO BOLT TORQUES TO EXCEED MORE THAN 1-1/2" (38mm).
2. ALL BOLT TORQUES TO EXCEED MORE THAN 1-1/2" (38mm).
3. ALL BOLT TORQUES TO EXCEED MORE THAN 1-1/2" (38mm).
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11. ALL BOLT TORQUES TO EXCEED MORE THAN 1-1/2" (38mm).
12. ALL BOLT TORQUES TO EXCEED MORE THAN 1-1/2" (38mm).

**NODE SITE POWER SHUT DOWN PROCEDURES**

1. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
2. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
3. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
4. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
5. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
6. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
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8. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
9. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
10. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
11. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN
12. FOR ONTARIO ELECTRIC/SCHEDULED POWER SHUT DOWN

**LEGEND**

- EXTERIOR CONNECTION
- MECHANICAL CONNECTION
- CHEMICAL ELECTRIFIC GROUNDING SYSTEM
- TEST CHEMICAL ELECTRIFIC GROUNDING SYSTEM
- EXPLOSION WITH INSPECTION SLEEVE
- GROUNDING BAR
- GROUND ROD
- TEST GROUND ROD WITH INSPECTION SLEEVE
- WOOD/PANORHIL IRON FENCE
- WALL STRUCTURE
- LCSE AREA
- PROPERTY LINE (PL)
- SETBACKS
- WATER LINE
- UNDERGROUND POWER
- UNDERGROUND TELCO
- UNDERGROUND FIBER
- OVERHEAD POWER
- OVERHEAD TELCO
- UNDERGROUND TELCO/POWER
- ADJACENT GROUND POWER
- ADJACENT GROUND TELCO
- ADJACENT GROUND FIBER
- SECTION REFERENCE
- DETAIL REFERENCE



**GENERAL NOTES AND LEGENDS**

**PRELIMINARY**

IT IS A REQUIREMENT OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND CONSENTS FROM ALL AFFECTED AGENCIES AND AUTHORITIES FOR THE CONSTRUCTION OF THE WORK.

EXTENT SYSTEMS (CA) LLC  
2000 CROW CANYON PLACE  
SUITE 210  
SAN RAMON, CA 94583

SITE ADDRESS  
ADJACENT TO (IN FRONT)  
240 67TH AVENUE  
OAKLAND, CA 94605

SHEET TITLE  
GENERAL NOTES  
AND LEGEND

SHEET NUMBER  
**GN-1**

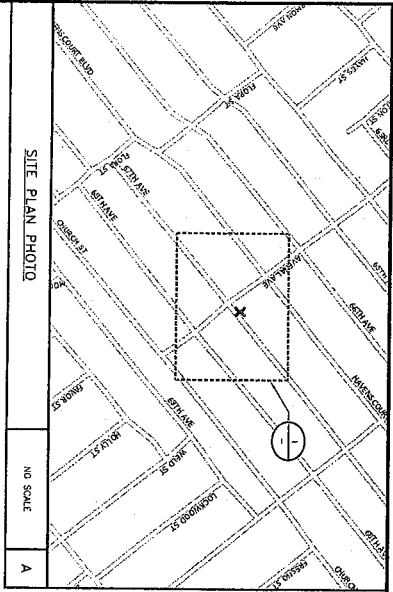
**BLACK & VEATCH**

BLACK & VEATCH CORPORATION  
29th FLOOR  
SUITE 900  
WALNUT CREEK, CA 94597

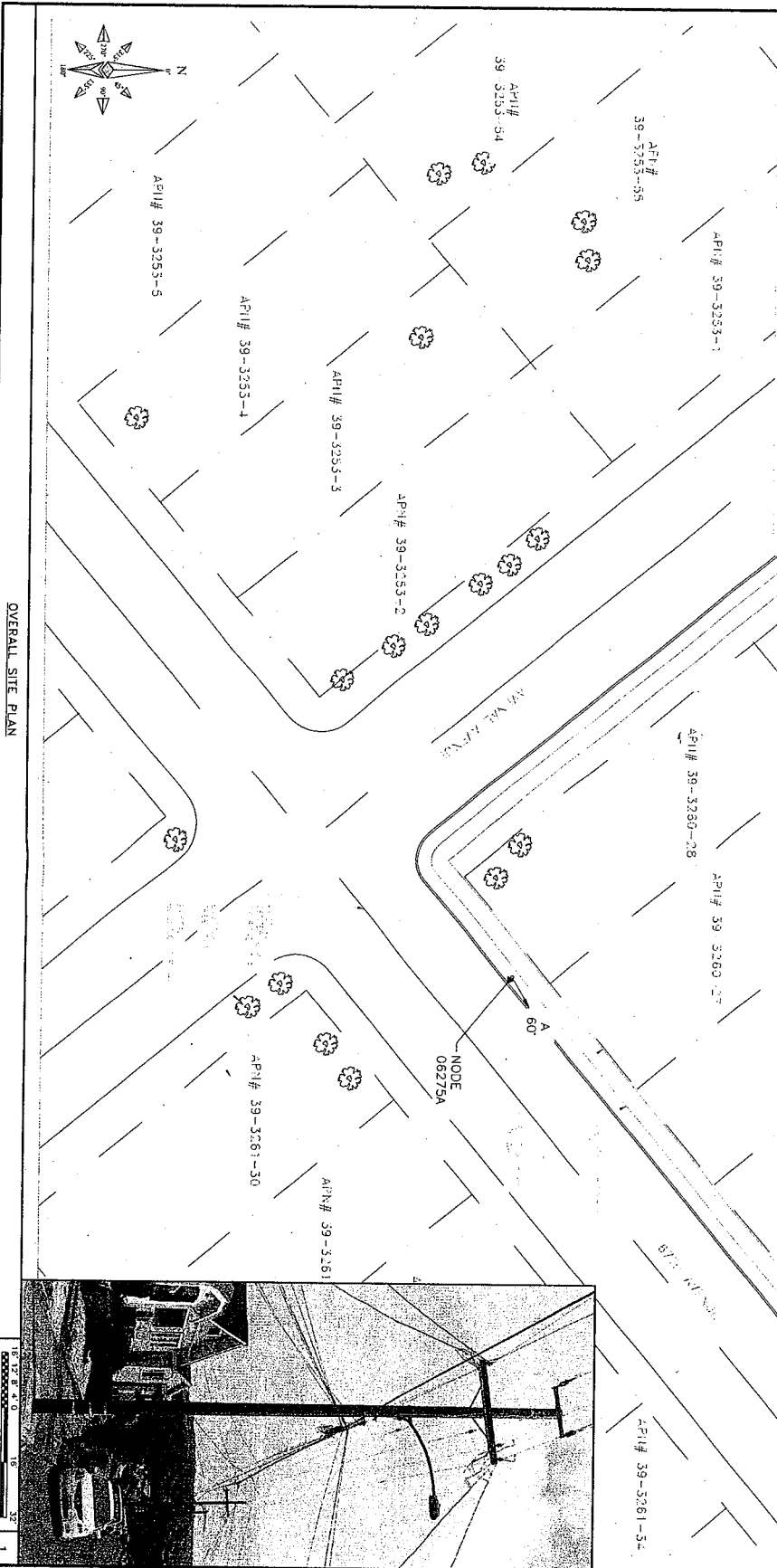
PROJECT NO. DRAWN BY CHECKED BY  
182417 GBS GJC

DATE	DESCRIPTION
9/27/16	ISSUED FOR REVIEW
9/27/16	ISSUED FOR REVIEW

THESE DRAWINGS ARE CONSIDERED AND PROVIDED AS A SERVICE TO THE CLIENT. ANY REPRODUCTION OR USE OF THE DRAWINGS WITHOUT THE WRITTEN CONSENT OF BLACK & VEATCH IS PROHIBITED.

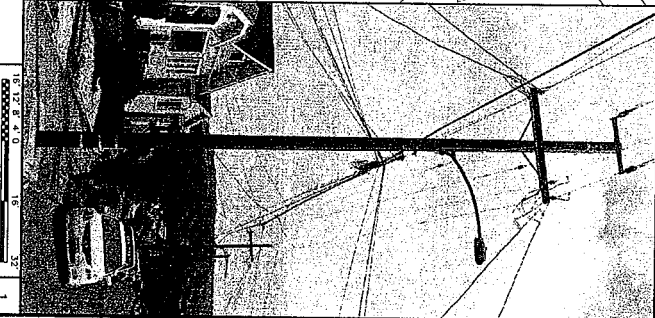


SITE PLAN PHOTO  
NO SCALE  
A



OVERALL SITE PLAN

THIS DRAWING IS NOT A SITE SURVEY. THE PURPOSE OF THIS PLAN IS TO SHOW HOW THE DEVELOPED SITE RELATES TO THE PRESENT PARCEL AND MEASUREMENTS ARE APPROXIMATIONS.



1" = 167' 8" 4.0' 18' 32' 1'

	INTERNAL REVIEW	DATE
	CONSTRUCTION SIGNATURE	DATE
RF SIGNATURE	DATE	
REAL ESTATE SIGNATURE	DATE	
<b>BLACK &amp; VEATCH</b> BLACK & VEATCH CORPORATION SUITE 480 WALNUT CREEK, CA 94597		
THESE DRAWINGS ARE COPYRIGHTED AND PRODUCED SOLELY FOR THE USE OF OUR CLIENT. ANY REPRODUCTION OR USE OF THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN CONSENT BY BLACK & VEATCH.		
PROJECT NO. DRAWN BY	192417	CAC
CHECKED BY		CAC
REV	DATE	DESCRIPTION
1	9/27/16	ISSUED FOR REVIEW
2	10/14/16	ISSUED FOR REVIEW
IF A MODIFICATION OF THE DRAWINGS IS REQUIRED, THE CLIENT MUST BE NOTIFIED AND THE DRAWINGS MUST BE REVISIONED TO REFLECT THE MODIFICATION.		
<b>PRELIMINARY</b>		
EXTINET SYSTEMS (CA) LLC 2000 CROW CANTON PLACE SUITE 210 SAN RAMON, CA 94583		
SITE ADDRESS ADJACENT TO (IN PROGRESS) 2401 67TH AVENUE OAKLAND, CA 94605		
SHEET TITLE OVERALL SITE PLAN		
SHEET NUMBER <b>C-1</b>		













NW-CA-SANFRNMC-06275A

Aerial Map

10/10/16

Adjacent to (IN PROW)  
2401 67th Avenue. Oakland, CA

Applied Imagination 510 914-0500





NW-CA-SANFRNMC-06275A

Adjacent to (IN PROW)  
2401 67th Avenue. Oakland, CA

Looking Northeast from 67th Avenue

10/10/16

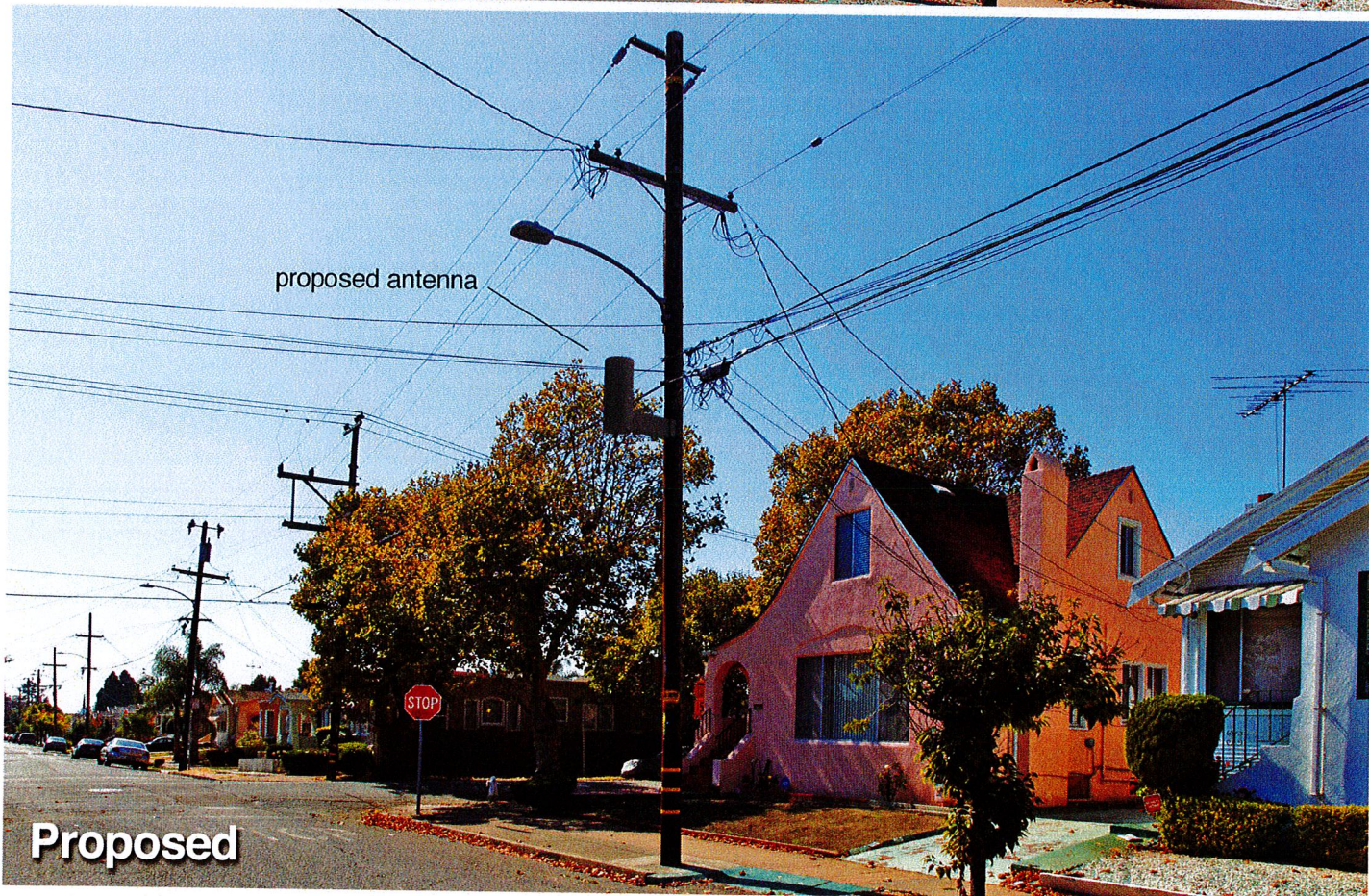
View #1

Applied Imagination 510 914-0500





Existing



Proposed



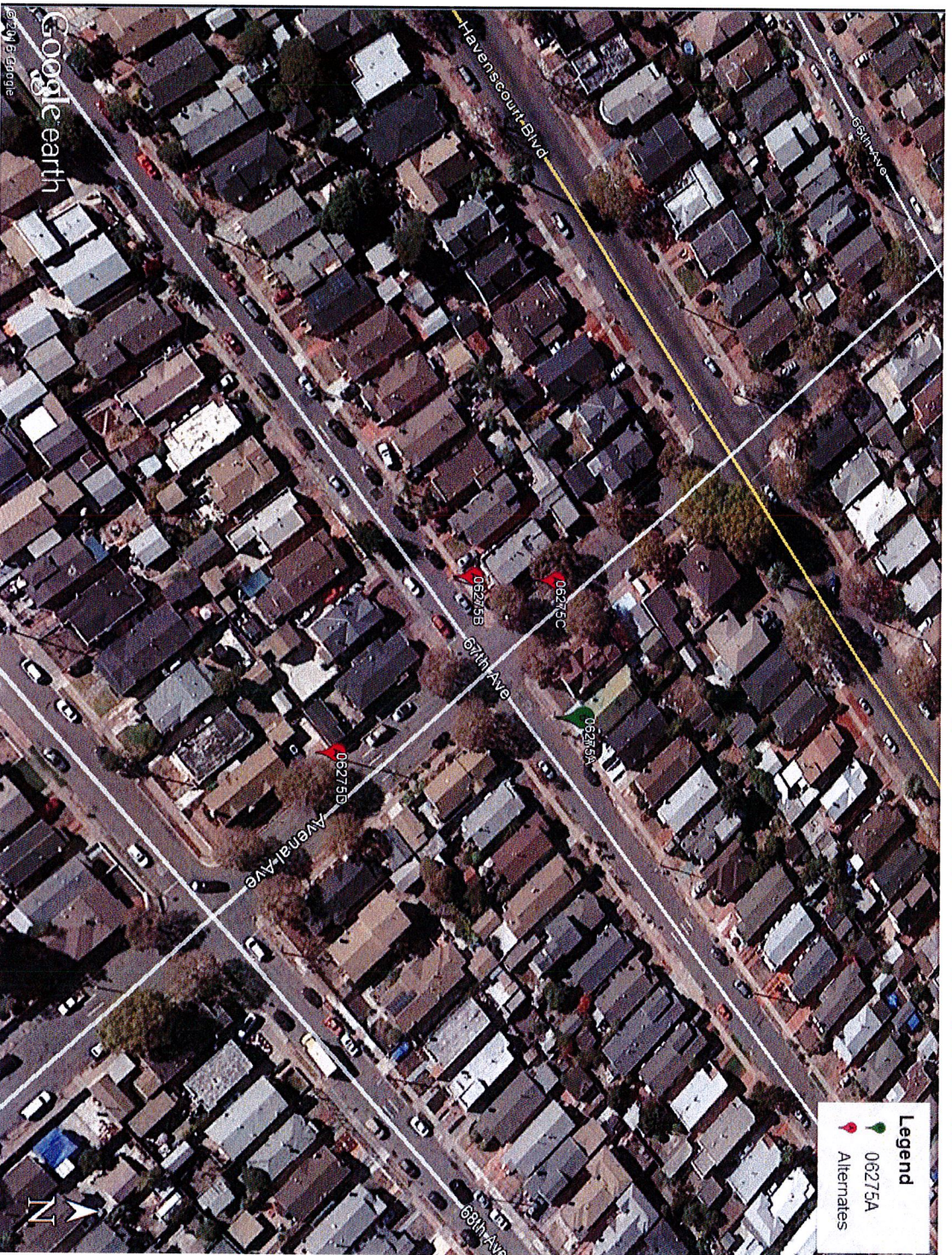


Attachment B

**EXTENET OAKLAND  
NODE 06275A  
ALTERNATIVE SITE ANALYSIS**



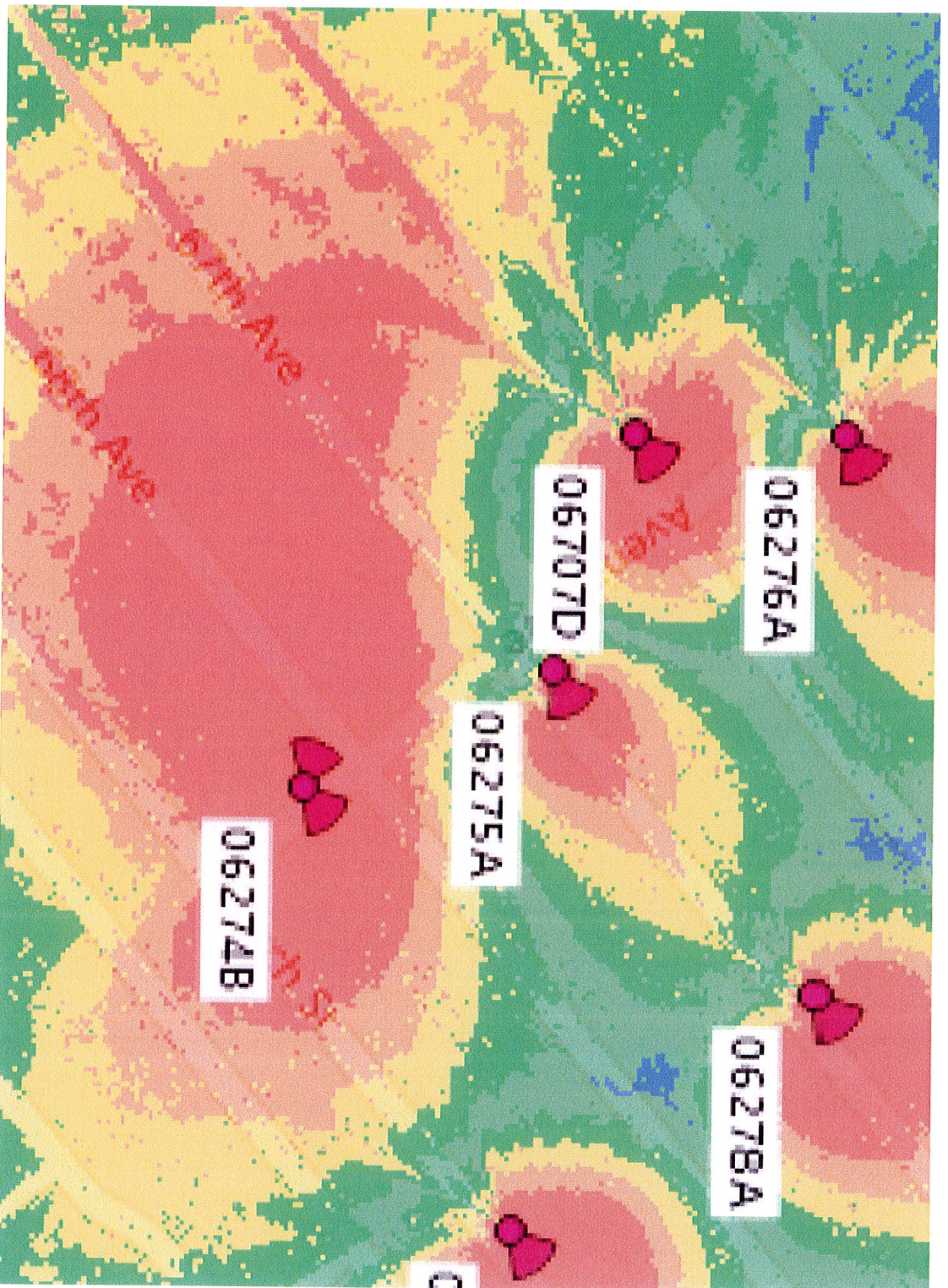
# MAP OF ALTERNATIVE POLES EVALUATED



- The above maps depict ExtenNet's proposed Node 06275A in relation to other poles in the area that were evaluated as possibly being viable alternative candidates.
- The following is an analysis of each of those 3 alternative locations.



# PROPAGATION MAP OF NODES 06275A



This propagation map depicts the ExteneNet proposed Node 06275A in relation to surrounding proposed ExteneNet small cell nodes.



## 06275A - PROPOSED LOCATION



- The location for ExteNet's proposed Node 06275A is a joint utility pole located adjacent to PROW 2401 67th Avenue (37.765395, -122.186673).
- ExteNet's objective is to provide T-Mobile 4G wireless coverage and capacity to the Oakland area.
- ExteNet evaluated this site and nearby alternatives to verify that the selected site is the least intrusive means to close T-Mobile's significant service coverage gap.



## ALTERNATIVE NODE 06275B



- Node 06275B is a joint utility pole located in front of 1851 67th Avenue (37.767760, -122.184586).
- This pole is not a viable alternative candidate because the existing transformer on the pole would need to be relocated to an uncertain destination in order to facilitate our proposed wireless installation.
- This pole is not a viable alternative because the minimum antenna height needed at this pole would violate CPUC General Order-94 Regulation safety clearances. This configuration does not allow ExteNet the proper 2' of separation from the communication lines.
- This pole is not a viable alternative candidate because cross lines and cross arms prevent adequate climbing space on the pole pursuant to CPUC General Order 95, thus prohibiting a wireless facility from being installed at this location.



## ALTERNATIVE NODE 06275C



- Node 06275C is a joint utility pole located at 67th Oakland (Tree in the way), (37.765349, - 122.187014)
- This pole is not a viable alternative because the minimum antenna height needed at this pole would violate CPUC General Order-94 Regulation safety clearances. This configuration does not allow ExteNet the proper 2' of separation from the communication lines.
- Nearby tree trimming would be required to facilitate a wireless facility here, possibly requiring tree removal.
- This pole is not a viable alternative because the signal would be blocked by trees.
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06707D.



## ALTERNATIVE NODE 06275D

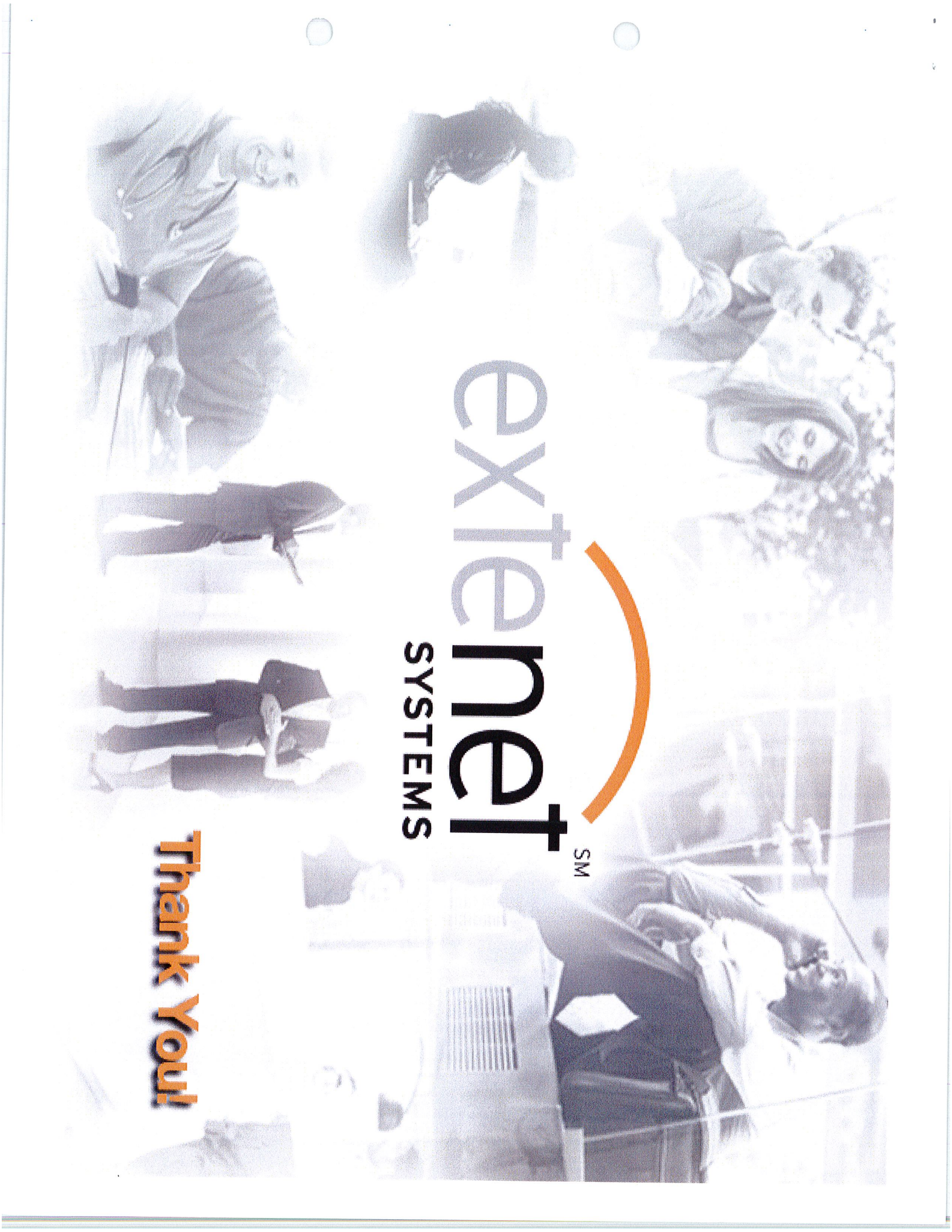


- Node 06275D is a joint utility pole near Across from 2601 Havencourt Boulevard (37.764900, -122.186607).
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06274B.
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06274B.

## **ALTERNATIVE SITE ANALYSIS CONCLUSION**

Based on ExteneNet's analysis of alternative sites, the currently proposed Node 06275A is the least intrusive location from which to fill the surrounding significant wireless coverage gaps.





externet  
SYSTEMS



SM

**Thank You!**

**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06275A)  
2401 67th Avenue • Oakland, California**

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

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of ExteNet Systems CA, LLC, a wireless telecommunications facilities provider, to evaluate the addition of Node No. 06275A to be added to the ExteNet distributed antenna system (“DAS”) in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

**Executive Summary**

ExteNet proposes to install a directional panel antenna on a utility pole sited in the public right-of-way at 2401 67th 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 <sup>2</sup>	1.00 mW/cm <sup>2</sup>
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

Power line frequencies (60 Hz) are well below the applicable range of these standards, and there is considered to be no compounding effect from simultaneous exposure to power line and radio frequency fields.

**General Facility Requirements**

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





○ ○

**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06275A)**  
**2401 67th Avenue • Oakland, California**

A small antenna for reception of GPS signals is also required, mounted with a clear view of the sky. 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 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 ExteNet, including drawings by Black & Veatch Corporation, dated September 27, 2016, it is proposed to install one CommScope Model 3X-V65S-GC3-3XR, 2-foot tall, tri-directional cylindrical antenna, with one direction activated, on a cross-arm to be added to a utility pole sited in the public right-of-way in front of the residence located at 2401 67th Avenue in Oakland. The antenna would employ no downtilt, would be mounted at an effective height of about 20 feet above ground, and its principal direction would be oriented toward 60°T. T-Mobile proposes to operate from this facility with a maximum effective radiated power in any direction of 214 watts, representing simultaneous operation 107 watts for AWS and 107 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 T-Mobile operation is calculated to be 0.0046 mW/cm<sup>2</sup>, which is 0.46% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of 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.

**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06275A)  
2401 67th Avenue • Oakland, California**

**Recommended Mitigation Measures**

Due to its mounting location and height, the ExteNet antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training be provided to all authorized personnel who have access to the antenna, including employees and contractors of the utility companies. No access within 2 feet directly in front of the antenna itself, such as might occur during certain activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory signs\* on the pole at or below the antenna, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines.

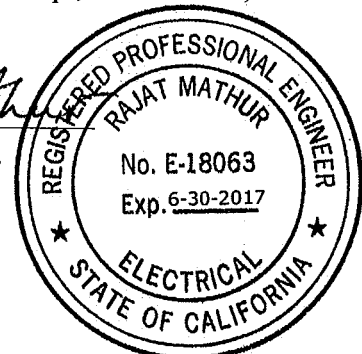
**Conclusion**

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the node proposed by ExteNet Systems CA, LLC, at 2401 67th 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 base stations. Training personnel and posting signs is recommended to establish compliance with occupational exposure limitations.

**Authorship**

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-18063, which expires on June 30, 2017. 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.

*Rajat Mathur*  
Rajat Mathur, P.E.  
707/996-5200



October 17, 2016

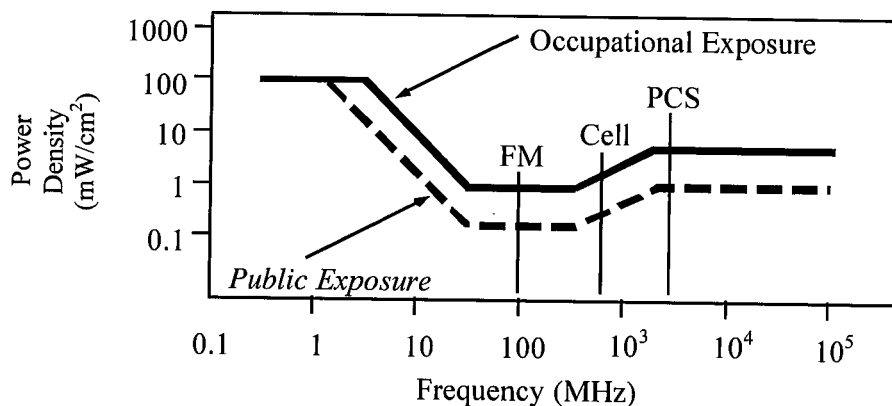
\* Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (e.g., a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required. Signage may also need to comply with the requirements of California Public Utilities Commission General Order No. 95.

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



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



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO

FCC Guidelines  
Figure 1

## 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/cm<sup>2</sup>,

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

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

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

$D$  = distance from antenna, in meters,

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

$\eta$  = aperture efficiency (unitless, typically 0.5-0.8).

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

#### Far Field.

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

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

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.





2/10/17 Posting

# CITY OF OAKLAND BUREAU OF PLANNING

250 Frank H. Ogawa Plaza, Suite 2114, Oakland, CA 94612-2031  
Phone: 510-238-3911 Fax: 510-238-4730

## PLANNING COMMISSION PUBLIC NOTICE

<b>Location:</b>	The public Right of Way in front of 2401 67 <sup>th</sup> Ave on a JPA Utility Pole
<b>Assessor's Parcel Number(s):</b>	(039-3260-028-00) nearest lot adjacent to the project site.
<b>Proposal:</b>	Installation of a wireless telecommunication facility on an existing 37' tall wooden utility pole located in the public right-of-way. The project involves installation of one (1) canister antenna measuring 23.5" long and 7.9" in diameter at a height of 18' and two radio units (7.9" tall and 7.9" wide) mounted at a height of 10'-6" and 13'-11" above ground.
<b>Applicant:</b>	Black & Veatch for Extenet Systems
<b>Contact Person/ Phone Number:</b>	Ana Gomez of Black & Veatch (913) 458-9148
<b>Owner:</b>	Pacific Gas & Electric (PG&E)
<b>Case File Number:</b>	PLN16404
<b>Planning Permits Required:</b>	Major Design Review to install a wireless Macro Telecommunications Facility one (1) telecommunication canister antenna on an existing PG&E pole located in the public right-of-way in a residential zone.
<b>General Plan:</b>	Detached Unit Residential
<b>Zoning:</b>	RD-1, Detached Unit Residential
<b>Environmental Determination:</b>	Exempt, Section 15301 of the State CEQA Guidelines; installation of telecommunication facility on an existing PG&E utility pole; Exempt, Section 15183 of the State CEQA Guidelines; projects consistent with a community plan, general plan or zoning.
<b>Historic Status:</b>	No Historic Record - Utility Pole
<b>City Council District:</b>	16
<b>Date Filed:</b>	October 4, 2016
<b>Finality of Decision:</b>	Appealable to City Council within 10 Days
<b>For Further Information:</b>	Contact case planner Jason Madani at (510) 238-4790 or by email at <a href="mailto:jmadani@oaklandnet.com">jmadani@oaklandnet.com</a> .

Your comments and questions, if any, should be directed to the Bureau of Planning, 250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, California 94612-2031 at or prior to the public hearing to be held on **March 1, 2017** at Oakland City Hall, Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, California 94612. The public hearing will start at 6:00 pm.

If you challenge the Planning Commission decision on appeal and/or in court, you will be limited to issues raised at the public hearing or in correspondence delivered to the Bureau of Planning at or prior to the public hearing on this case. If you wish to be notified of the decision of any of these cases, please provide the case planner with a regular mail or email address.

Please note that the description of the application found above is preliminary in nature and that the project and/or such description may change prior to a decision being made. Except where noted, once a decision is reached by the Planning Commission on these cases, they are appealable to the City Council. **Such appeals must be filed within ten (10) calendar days of the date of decision by the Planning Commission and by 4:00pm.** An appeal shall be on a form provided by the Bureau of Planning, and submitted to the Bureau at 250 Frank H. Ogawa Plaza, Suite 2114, in the attention of the Case Planner. The appeal shall state specifically wherein it is claimed there was error or abuse of discretion by the City of Oakland or wherein the decision is not supported by substantial evidence and must include payment in accordance with the City of Oakland Master Fee Schedule. Failure to file a timely appeal will preclude you from challenging the City's decision at any time. The appeal itself must raise every issue that is contested along with all the arguments and evidence previously entered into the record prior to or at the public hearing of the project. Failure to do so will preclude you from raising such issues during the appeal hearing session at court.

**POSTING DATE: February 10, 2017**  
**IT IS UNLAWFUL TO ALTER OR REMOVE THIS NOTICE WHEN POSTED ON SITE**





6/2/17  
posting

# NOTICE OF OAKLAND



**CITY OF OAKLAND**  
BUREAU OF PLANNING  
190 Franklin Avenue, Suite 211, Oakland, CA 94612-2011  
Phone: 510.234.3013 Fax: 510.234.4100  
**PLANNING COMMISSION PUBLIC NOTICE**

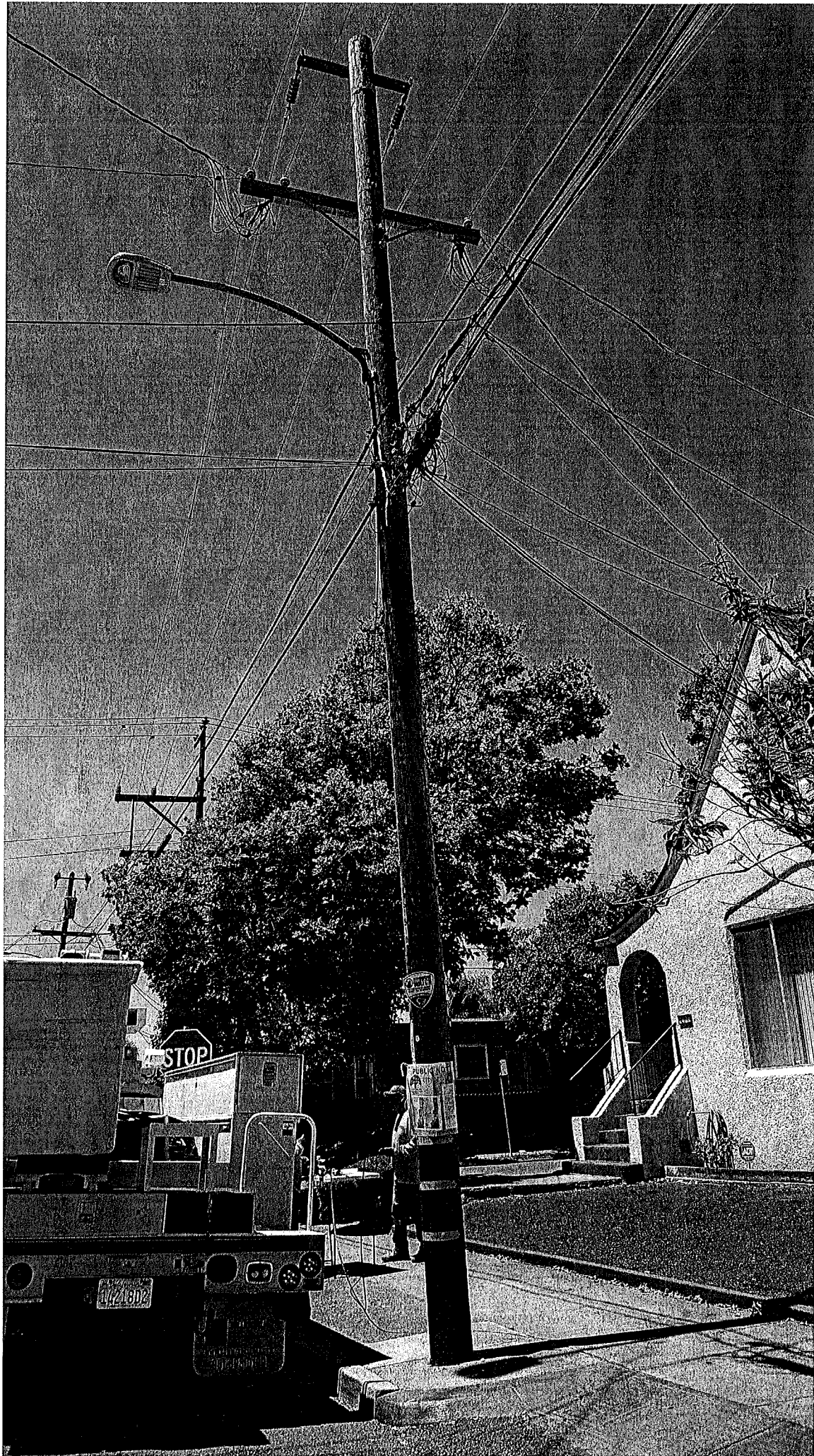
Location	The public Right of Way is located at 47th Avenue on a CPA Utility Pole
Architect/Parcel Number(s)	(019-3260-028-00) nearest parcel area of the project site
Proposer	Installation of a wireless telecommunication facility on an existing 27' tall wooden utility pole located in the public right-of-way. The project involves installation of one (1) carrier antenna measuring 22" x 28" and 7' x 7' in diameter with height of 18' and two (2) radio units (7' x 24") and 4' x 24" mounted at a height of 10' and 13' above ground level.
Applicant/Engineer/Architect	Black & Veatch for Extend Systems
Contact Person/Phone Number	Anal Comby of Black & Veatch (510) 435-9188
Owner	Pacific Gas & Electric (PG&E)
Case File Number	PLN16404
Planning Permit Required	Major Design Review to install a wireless Mobile Telecommunications Facility one (1) telecommunication carrier antenna on a existing PG&E pole located in the public right-of-way in a residential zone.
General Plan	Detached Unit Residential
Zoning	RD11 Detached Unit Residential
Environmental Determination	Exempt Section 15301 of the State CEQA Guidelines in that addition and alteration to an existing PG&E utility pole Section 15301, new installation or replacement of said structure Exempt Section 15303 of the State CEQA Guidelines project condition with a community plan general plan none.
Historic Status	No Historic Record = Utility Pole
City Council District	6
Date Filed	October 4, 2016
Priority of Decision	Appealable to City Council within 10 Days
For Further Information	Contact case planner Jason Madani (510) 434-1191 or by email jmadani@oakland.net

Proposed  
ANCO SANFERRING/OSZAA  
APPROVED BY (IN ROW)  
10/07/16  
4015 24th Avenue, Oakland, CA

City Council Meeting: If you wish to be heard at the Bureau of Planning, 210 Franklin Avenue, Suite 211, Oakland, CA 94612-2011, you must appear in person at the City Council Meeting, 1 Frank Meyer Plaza, Oakland, CA 94612-2011, on the date and time listed below. The Planning Commission will be held on the date and time listed below. The City Council Meeting will be held on the date and time listed below. The City Council Meeting will be held on the date and time listed below. The City Council Meeting will be held on the date and time listed below.

POSTING DATE: 10/11/16  
IT IS UNLAWFUL TO ALTER OR REMOVE THIS NOTICE WITHOUT PERMIT









June 2, 2017

City Planner  
Planning Department  
City of Oakland  
250 Frank H. Ogawa Plaza, 2<sup>nd</sup> Floor  
Oakland, CA 94612

**Re: GO 95 Required Two Feet Clearance Between Antenna and Pole**  
**Applicant: ExteNet Systems (California) LLC**  
**Nearest Site Address: Public Right of Way near 2401 67<sup>th</sup> Avenue**  
**Site ID: NW-CA-SANFRNMC-TMO Node 06275A**  
**Latitude/Longitude: 37.765395, -122.186673**  
**Planning Application: PLN16404**

Dear City Planner,

This letter is in response to discussions with City of Oakland Planning Department seeking clarification on the proposed antenna placement on the utility pole.

Wireless facility attachments to utility poles must comply with CPUC General Order 95 design, safety and clearance standards. Specifically, Rule 94.4(E) states: *Antennas shall maintain a 2 ft horizontal clearance from centerline of pole when affixed between supply and communication lines or below communication lines.* This rule precludes ExteNet from placing the antennas flush mounted to the utility pole when there is a power source attached to the pole. ExteNet minimized the clearance as much as possible by placing the antenna shroud just over two feet from the centerline of the utility pole.

Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,

Ana Gomez  
ExteNet Permitting Contractor



February 13, 2017

City Planner  
Planning Department  
City of Oakland  
250 Frank H. Ogawa Plaza, 2<sup>nd</sup> Floor  
Oakland, CA 94612

**Re: Public Outreach Summary**

**Applicant:** ExteNet Systems (California) LLC  
**Nearest Site Address:** Public Right of Way near 2401 67<sup>th</sup> Avenue.  
**Site ID:** NW-CA-SANFRNMC-TMO Node 06275A  
**Latitude/Longitude:** 37.765395, -122.186673  
**Planning Application:** PLN16-404

Dear City Planner,

This week we notified the following groups by sending them the attached project flier:

- Oakland Community Organizations

Feel free to contact me if you have any questions. Thank you.

Best Regards,

*Ana Gomez/BV for ExteNet*

Ana Gomez  
ExteNet Permitting Contractor



# ExteneNet is improving wireless service in Oakland!

January 4, 2017

ExteneNet Systems is a neutral host telecommunications infrastructure provider that is working to improve wireless service in Oakland.

We will soon be proposing to install fiberoptic cables and state-of-the-art small cell wireless facilities at existing telephone pole and light pole locations in the Oakland public right-of-way.

Telecommunications carriers transmit their signal through ExteneNet's facilities to improve wireless voice, data, and public safety connectivity.

Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this infrastructure will help meet existing, fluctuating and future demands.

Please see attached examples of actual ExteneNet facilities like the ones we will be proposing in Oakland.

## **Want to learn more?**

Please visit <http://www.extenetsystems.com/> or email [myergovich@extenetsystems.com](mailto:myergovich@extenetsystems.com).

