Case File Number PLN16357

April 19, 2017

Location: Utility pole in sidewalk adjacent to 1644 27th Avenue

Assessor's Parcel Number: Adjacent to: 025-0734-001-00

Proposal: To establish a telecommunications facility, to enhance existing

services, by attaching an antenna and equipment to an existing wooden utility pole located in the public right-of-way (sidewalk).

Applicant: Ana Gomez/Black & Veatch & Extenet (for: T-Mobile)

Phone Number: (913) 458-9148

Owner: Joint Pole Authority (JPA) including PG&E

Case Number: PLN16357

Planning Permits Required: Regular Design Review with additional findings for Macro

Telecommunications Facility

General Plan: Mixed Housing Type Residential

Zoning: RM-2 Mixed Housing Type Residential Zone

Environmental Determination: Exempt, Section 15301 of the State CEQA Guidelines:

Existing Facilities; Section 15183:

Projects Consistent with a Community Plan, General Plan or Zoning

Historic Status: Non-historic property

City Council District: 5

Date Filed: November 18, 2016

Action to be Taken: Approve with conditions

Finality of Decision: Appealable to City Council within 10 days

For Further Information: Contact case planner Maurice Brenyah-Addow at (510) 238-6342 or mbrenyah@oaklandnet.com

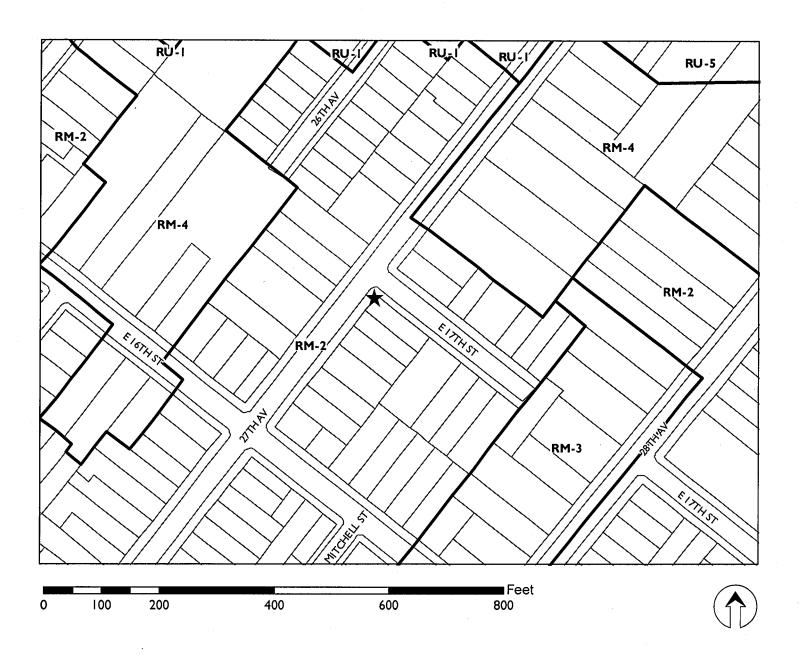
SUMMARY

The applicant requests Planning Commission approval of Design Review (Major) with additional findings to establish a Macro Telecommunications Facility ("small cell site"). The purpose is to enhance existing services. The project involves attaching an antenna and equipment to an existing wooden utility pole located on a sidewalk in the public right-of-way (sidewalk).

The wooden PG&E utility pole is 38 feet tall and located in the public right-of-way adjacent to 1644 27th Avenue. The project involves installation of one (1) canister antenna located within a shroud and mounted at a height of 18'-0" 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 pole and power lines.

The proposed new antenna will improve wireless telecommunications coverage for the neighboring residential properties. The proposed project substantially complies with the applicable findings for project approval and therefore, Staff recommend that the Planning Commission approve the project subject to the conditions, as described in this report.

CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN 16357

Applicant: Ana Gomez/Black & Veatch & Extenet (for: T-Mobile) Address: Utility pole in sidewalk adjacent to 1644 27th Avenue

Zone: RM-2

BACKGROUND

For several years in the City of Oakland, telecommunications carriers have proposed facility installation within the public right-of-way, instead of private property. These facilities typically consist of antennas and associated equipment attached to utility poles or street light poles. Poles are often replaced with replicas for technical purposes. The main purpose is to enhance existing service, given increasing technological demands for bandwidth, through new technology and locational advantages. The City exercises zoning jurisdiction over such projects in response to a 2009 State Supreme Court case decision (Sprint v. Palos Verdes Estates). Pursuant to the Planning Code, utility or joint pole authority (JPA) sites are classified by staff as "Macro Facilities," and street light pole sites (lamps, not traffic signals) as "Monopole Facilities." For JPA poles, only Design Review approval may be required, as opposed to Design Review and a Conditional Use Permit, for example. For non-JPA pole sites, such as City light poles, projects also require review by the City's Public Works Agency (PWA) and Real Estate Division, and involve other considerations such as impacts to historical poles. The PWA may also review projects involving street lights. In either case, the practice has been to refer all such projects to the Planning Commission for decision when located in or near a residential zone.

Several projects for new DAS (distributed antenna services) facilities have come before the Planning Commission for a decision and have been installed throughout the Oakland Hills. Some applications have been denied due to view obstructions or propinquity to residences. Improved practices for the processing of all types of sites incorporating Planning Commission direction have been developed as a result. Conditions of approval typically attach requirements such as painting and texturing of approved components to more closely match utility poles in appearance. Approvals do not apply to any replacement project should the poles be removed for any reason. As with sites located on private property, the Federal Government precludes cities from denying an application on the basis of emissions concerns if a satisfactory emissions report is submitted. More recent Federal changes have streamlined the process to service existing facilities.

Currently, telecommunications carriers are in the process of attempting to deploy "small cell sites." These projects also involve attachment of antennas and equipment at public right-of-way facilities such as poles or lights for further enhancement of services. However, components are now somewhat smaller in size than in the past. Also, sites tend to be located in flatland neighborhoods and Downtown where view obstructions are less likely to be an issue. Good design and placement is given full consideration nonetheless, especially with the greater presence of historic structures in Downtown. Additionally, given the sheer multitude of applications, and, out of consideration for Federal requirements for permit processing timelines, staff may develop alternatives to traditional staffing and agendizing.

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 Communication 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.

Main division website: https://www.fcc.gov/general/competition-infrastructure-policy-division-wireless-telecommunications-bureau

Tower siting: https://www.fcc.gov/general/tower-and-antenna-siting

SITE DESCRIPTION

The project site consists of a wooden utility pole (38-feet in height) located in the public right-of-way (sidewalk, towards the curb) along East 17th Street. The pole hosts a set of power lines towards its top, a City street light, and wires attached to the pole below the light. The pole is located adjacent to a residential building located at 1644 27th Avenue where 27th Avenue intersects with East 17th Street. The corner property contains a small complex of detached two-story townhomes. The pole is not directly adjacent to a primary living space such as a living room or bedroom window. The surrounding properties consist of a mix of primarily single-family homes, duplexes, and multi-family residences.

PROJECT DESCRIPTION

The proposal is to establish a Macro Telecommunications Facility ("small cell site"). The project would involve attaching an antenna and equipment to a 38-foot tall existing pole. One antenna would be installed to project over the street below the City light at 18-feet to 21'-3". Various equipment would be installed projecting over the sidewalk between 7'-1" to approximately 13'-8" in height.

GENERAL PLAN ANALYSIS

The site is located in a Mixed Housing Type Residential area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the Mixed Housing Type Residential area is: "To create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by a mix of single family homes, townhouses, small multi-unit buildings, and neighborhood businesses where appropriate." Given residential and other customers increasing reliance upon cellular service for phone and internet, the proposal for a macro telecommunications facility that is not adjacent to a primary living space or historic structure conforms to this intent.

Staff therefore finds the proposal, as conditioned, to conform to the General Plan.

ZONING ANALYSIS

The site is located within the RM-2 Mixed Housing Type Residential Zone. The intent of the RM-2 Zone is to "create, maintain, and enhance residential areas characterized by a mix of single family homes, duplexes, townhouses, small multi-unit buildings, and neighborhood businesses where appropriate"

Macro telecommunications facilities on JPA poles require a Regular Design Review with additional findings when located in residential zones. 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. Given residential and other customers increasing reliance upon cellular service for phone and wi-fi, the proposal for a macro telecommunications facility that is not adjacent to a primary living space or historic structure conforms to this Intent.

Staff finds the proposal, as conditioned, to conform to the Planning Code.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines categorically exempts specific types of projects from environmental review. Section 15301 exempts projects involving 'Existing Facilities. The project is also subject to Section 15183 for 'Projects consistent with a community plan, general plan or zoning.' The project is therefore exempt from further Environmental Review.

KEY ISSUES AND IMPACTS

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

17.128.070 Macro Telecommunications Facilities.

A. General Development Standards for Macro Telecommunications Facilities.

1. The Macro Facilities shall be located on existing buildings, poles or other existing support structures, or shall be post mounted.

The facility involves attachment to an existing utility pole hosting power lines and a City street light.

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 matte silver and all components matte brown, per Planning Commission direction, to match the appearance of the wooden utility pole and power line posts.

3. Macro Facilities may exceed the height limitation specified for all zones but may not exceed fifteen (15) feet above the roof line or parapet. Placement of an antenna on a nonconforming structure shall not be considered to be an expansion of the nonconforming structure.

This standard is inapplicable because the proposal does not involve attachment to a roofed structure. Nonetheless, the facility would not exceed the height of the host facility or maximum height permitted in the zoning district.

4. Ground post mounted Macro Facilities must not exceed seventeen (17) feet to the top of the antenna.

This standard is inapplicable because the proposal does not involve ground post mounting.

5. 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 (Attachment F).

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 quasi-public facility (utility pole with power lines and City light). Nonetheless, the applicant has submitted an analysis which is attached to this report (Attachment E).

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 'C', and the applicant has submitted a satisfactory site design alternatives analysis (Attachment E).

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 (Attachment F).

Analysis

The proposed site design would not be situated on historic pole or structure, create a view obstruction, or be directly adjacent to a primary living space such as a living room or bedroom window. Staff has added a Condition of Approval (#26) to re-orient the antenna and associated equipment cabinets away from the adjacent residence to towards the street. 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 wooden utility 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 Regular Design Review subject to the attached Findings and Conditions of Approval.

Maurice Brenyah-Addow

Planner III

Reviewed by:

SCOTT MILLER Zoning Manager

Approved for forwarding to the City Planning Commission:

DARIN RANELLETTI, Interim Director Planning and Building Department

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ATTACHMENTS:

- A. Findings
- B. Conditions of Approval
- C. Plans
- D. Applicant's Photo-Simulations
- E. Site Alternatives Analysis/Site Design Alternatives Analysis dated October 28, 2016
- F. RF Emissions Report by Hammett & Edison, Inc. dated October 20, 2016

ATTACHMENT A: FINDINGS

This proposal meets the required findings under Regular Design Review Criteria for Nonresidential Facilities (OMC Sec. 17.136.050(B)) and Telecommunications Regulations/Design Review Criteria for Macro 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.

REGULAR DESIGN REVIEW CRITERIA FOR NONRESIDENTIAL 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;

The attachment of a small antenna and equipment to a non-historic utility pole, painted and texturized to match the pole and power line posts in appearance for camouflaging, will be the least intrusive design. The proposal would not create a view obstruction, be directly adjacent to a primary living space such as a living room or bedroom window, or be located on an historic structure. The proposal will enhance essential services in an urbanized neighborhood. The proposal will not be ground mounted.

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 attachment of a small antenna and equipment to a non-historic utility pole, painted and texturized to match the pole and power line posts in appearance for camouflaging, will be the least intrusive design. The proposal would not create a view obstruction, be directly adjacent to a primary living space such as a living room or bedroom window, or be located on an historic structure. The proposal will enhance essential services in an urbanized neighborhood. The proposal will not be ground mounted.

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 located in a Mixed Housing Type Residential area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the Mixed Housing Type Residential area is: "the Mixed Housing Type Residential area is: "To create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by a mix of single family homes, townhouses, small multi-unit buildings, and neighborhood businesses where appropriate." Given residential customers' increasing reliance upon cellular service for phone and wi-fi, the proposal for a macro telecommunications facility that is not adjacent to a primary living space or historic structure conforms to this intent.

TELECOMMUNICATIONS REGULATIONS/DESIGN REVIEW CRITERIA FOR MACRO TELECOMMUNICATIONS FACILITIES (OMC SEC. 17.128.070(B))

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

The antenna will be painted and texturized matte silver to match the power line posts in appearance for camouflaging, will be the least intrusive design, as required by conditions of approval.

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

This finding is inapplicable because the antenna will not be mounted onto an architecturally significant structure but to a replacement wooden 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 antenna will be located parallel to the host utility pole below an attached City light and below posts hosting power lines and above additional power lines.

4. Equipment shelters or cabinets shall be screened from the public view by using landscaping, or materials and colors consistent with surrounding backdrop or placed underground or inside existing facilities or behind screening fences.

Conditions of approval require painting and texturing matte brown to match the pole in appearance for camouflaging.

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

Equipment will be attached to the utility pole with an unobtrusive design.

6. For antennas attached to the roof, maintain a 1:1 ratio (example: ten (10) feet high antenna requires ten (10) feet setback from facade) 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.

This finding is inapplicable because the antenna would be attached to a pole and not to a roofed structure.

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 minimal clearance to the facility will be 7'-4".

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 November 22, 2016 and submitted November 22, 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 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. 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.

11. 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

12. Construction Activity in the Public Right-of-Way

a. Obstruction Permit Required

Requirement: The project applicant shall obtain an obstruction permit from the City prior to placing any temporary construction-related obstruction in the public right-of-way, including City streets and sidewalks.

When Required: Prior to approval of construction-related permit

Initial Approval: Bureau of Building

Monitoring/Inspection: Bureau of Building

b. Traffic Control Plan Required

Requirement: In the event of obstructions to vehicle or bicycle travel lanes, the project applicant shall submit a Traffic Control Plan to the City for review and approval prior to obtaining an obstruction permit. The project applicant shall submit evidence of City approval of the Traffic Control Plan with the application for an obstruction permit. The Traffic Control Plan shall contain a set of comprehensive traffic control measures for auto, transit, bicycle, and pedestrian detours, including detour signs if required, lane closure procedures, signs, cones for drivers, and designated construction access routes. The project applicant shall implement the approved Plan during construction.

When Required: Prior to approval of construction-related permit

Initial Approval Public Works Department, Transportation Services Division

Monitoring/Inspection: Bureau of Building

c. Repair of City Streets

Requirement: The project applicant shall repair any damage to the public right-of way, including streets and sidewalks caused by project construction at his/her expense within one week of the occurrence of the damage (or excessive wear), unless further damage/excessive wear may continue; in such case, repair shall occur prior to approval of the final inspection of the construction-related permit. All damage that is a threat to public health or safety shall be repaired immediately.

When Required: Prior to building permit final

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

13. <u>Underground Utilities</u>

Requirement: The project applicant shall place underground all new utilities serving the project and under the control of the project applicant and the City, including all new gas, electric, cable, and telephone facilities, fire alarm conduits, street light wiring, and other wiring, conduits, and similar facilities. The new facilities shall be placed underground along the project's street frontage and from the project structures to the point of service. Utilities under the control of other agencies, such as PG&E, shall be placed underground if feasible. All utilities shall be installed in accordance with standard specifications of the serving utilities.

When Required: During construction

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

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 submitting a building permit application

Initial Approval: N/A

Monitoring/Inspection: N/A

15. Camouflage

Requirement: The antenna shall be painted, texturized, and maintained matte gray, 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

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. Possible District Undergrounding PG&E Pole

Requirement: Should the PG &E utility pole be permanently 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 Bureau as required by the regulations.

When Required: Ongoing Initial Approval: N/A

Monitoring/Inspection: N/A

18. Re-orientation of antenna

<u>Requirement</u>: The proposed antenna and associated equipment cabinets shall be re-oriented away from the adjacent residence to towards the street.

When Required: Prior to application for a building permit and Ongoing

Initial Approval: Bureau of Planning

Monitoring/Inspection: Department of Planning & Building

Case File Number PLN16357

Page 15

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-SANFRNMC 06042A

2911

SITE MAP

NO SCALE

CODE COMPLIANCE

EXTENS MConnectivity SYSTEMS

Foothill Blvd

ADJACENT TO (IN PROW) 1644 27TH AVENUE OAKLAND, CA 94601

OCAL MAP

NO SCALE



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SHEET NO:

SHEET TITLE

SHEET INDEX

GENERAL NOTES AND LEGEND
OVERALL SITE PLAN
UNILTY POLE ELEMINONS AND RISER DETALS
EQUIPMENT DETALS
ECUIPMENT DETALS

PHONE:

ADDRESS: 2000 CROW CANYON PL SUITE 210, SAN RAWON, CA 94583 OWNER: EXTENST SYSTEMS CA, LLC

CONTACT: MATTHEW YERCOVICH
ADDRESS: 2000 CROW CANYON PLACE, SUITE 210
ASSES SYSTEM
45825

(415) 596-3474 MYERGOVICHO
EXTENETSYSTEMS.COM

COMPANY: EXTENET SYSTEMS (CALIFORNIA), LLC.

APPLICANT

POLE OWNER

PROJECT INFORMATION

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RUCTION SIGNATURE

REAL ESTATE SIGNATURE

PROJECT DESCRIPTION

HARDWARE AND ANCILLARY EQUIPMENT TO BE INSTALLED AS DESCRIBED HEREIN. these drawings depict the installation of a wireless

BLACK & VEATCH

B

BLACK & VEATCH CORPORATION 7760 FRANCE AVE SUITE 1200 BLOOMINGTON, MN 55435

GENERAL PROJECT NOTES

PROJECT NO. DRAWN BY CHECKED BY

ISSUED FOR REVIEW

CONTRACTOR SHALL VERFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE, JOB SITE AND CONFIGN THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE ACCOMPAISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK. PRIOR TO SUBJUITING A BUD, THE CONTRACTOR SHALL FAMILLARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.

ALL FIELD MODIFICATIONS BEFORE, DURING OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY AN EXTENET SYSTEMS REPRESENTATIVE.

INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.

NOTIFY CITEMET SYSTEMS, IN WHETING, OF ANY MAJOR DISCREPANCES REGREDING HE CONTROL DOLLARYIN, EXSTING CONDITIONS, AND DISCRIM NITEM. THE CONTROLOGY SHALL BE RESPONSIBLE FOR ORTHWING CLARIFFCATIONS FROM A PETENET SYSTEMS REPRESENTATIVE, AND ADJUSTING THE BID TACKRENINGLY.

CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REJAIN, CONTRACTOR SHALL REPAIR ARY DAMAGE THAT DAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF AN EXTENET SYSTEMS REPRESENTATIVE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK UNDER THE CONTRACT.

CONTRACTOR PLANS TO (LUSTRATE THE AS-BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY EXTENSE OR THOSILE, THE CONTRACTOR SMALL PROVIDE EXTENT SYSTEMS WITH ONE COPY OF ALL RED-LINED DRAWINGS.

TERPY ALL PANL ECHPHANT WITH AN EXTRACT STREAMSE REPRESENTATION. ALL COLUMBATE LANGUIS, PERSONAMEE NEXTLATION AND THERE FINAL LOCATION ARE TO BE PROPRIED TO EXCHANGED AND THE WORK AND LOCADIMANTION AFTER WORK WITH THE WORK AND LOCADIMANTES REQUIRED BY OTHERS RELATED TO SAID NEXTLATIONS.

PROJECT DATA

ATTACHMENTS TO A WOOD UTILITY POLE

ACILITY IS UNMANNED AND NOT FOR IUMAN HABITATION. THIS PROJECT IS XEMPT.

25-732-1 RM−2 CITY OF DAKLAND

TITLE 24 REQUIREMENTS CONSTRUCTION TYPE: OCCUPANCY: NEAREST A.P.N.: ZONING DISTRICT: ZONING JURISDICTION ELEVATION:

UNDERGROUND SERVICE ALERT

UTILITIES PROTECTION CENTER, INI 811

48 HOURS BEFORE YOU DIC

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

E-MAIL:

(913) 458-9148

ADDRESS: 2999 OAK ROAD. SUITE 490 WALNUT CREEK, CA 94597

PHONE: (952) 896-0751 E-MAIL: EVANSRAGBY.COM COMPANY: BLACK & VEATCH ENGINEER: AARON EVANS ENGINEER

> POLE #: LONGTUDE:

-122.229006 110138957 37.783014

CONTACT: ANA COMEZ COMPANY: BLACK & VEATCH

AGENT

Attachment C

SHBCONTRACTOR SWALL YERRY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SWALL IMMEDIATELY NOTIFY THE EMORETEM WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



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

TITLE SHEET

ADJACENT TO (IN: PROW) 1664 27TH AVENUE OAKLAND, CA 94601

Attachment C

GENERAL NOTES

- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS.
- THE WORK SHALL INCLIDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THESE PLANS AND IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL RECENE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONTRACT AND CONSTRUCTION DOCUMENTS BEFORE STAFTING ANY WORK. PROR TO THE SUBMISSION OF BOS, THE COMPANIONER'S) SHALL VIST THE JOB STEED, AND BE RECONSULED FOR ALL CONTROL FOLDWARMS, FILLD COMMINIONS AND UNEXPOSES, AND COMPANI MAY COMMINISM AND COMMINISM AND COMMINISM AND COMPANI MAY FOLDWARMS AND COMPANION FOR BE BROUGHT TO THE ATTENTION OF THE MACHINETY FOR THE PROSPRING FOR THE PROPERTY OF THE MACHINETY FOR THE MACHINETY FOR THE PROPERTY OF THE MACHINETY FOR THE MACHINETY
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE MODES, RECOLATIONS, AND ORDINANCES, INCLUDING APPLICABLE MANICIPAL AND UTILITY COMPANY SPECIFICATIONS.
- THE CONTROLOR SHALL BE SOLEN RESPONSIEL FOR ALL CONSTRUCTION MANS, METHODS, TECHNOLESS, SECLERICES, AND REPORTED AND CONSTRUCTION OF THE MAN WHITE OF THE MAN HORSE THE CONTROLOR MELLORISE CHOICE THAN COORDINATION WITH THE MELLEGITATION ENGINEER AND WITH THE METHOD RECOVERY AND WITH THE METHOD RECOVERY AND WITH THE METHOD RECOVERY. THE COMPACTOR SHALL HETALL ALL COMPACTS AND MATERIALS IN ACCORDANCE ARM MARKECHISED RECOMMENDATION. SHE THE RECOMMENDATION AND THE AND THE RECOMMENDATION AND THE AND THE APPLICATE CONSIST OF RECLALATIONS, REVIEW AND RESOURCE THE CONFLICT WITH DIRECTION FROM THE MACHINETY OFFICE AND ADMINISTRATION OF ADMINISTRATION OF
- THE CONTRACTOR SHALL HAVE RECESSEY PROVISIONS TO PROTECT DESTINE IMPROVISIONS AND LICENSE AND LICENSE
- plais are intended to be diagnamatic only and should not be scaled unless otherwise noted. Rely only on annotated dualnednes and request neormation if additional diagnations are required. cchiráltor is to keep the general area olean, hazard free, and dispose of all dirt, debris, Rubbish, and relayde Equipment not specified as rejaining on the property, leave premises in Clean Condition Dally.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227—2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.

DEFINITIONS

- TYPOME OR TYP MEANS THAT THIS TELL IS SUBSEMERLLY THE SAME ARBOSS SMILLAR CONDITIONS. "TYP. SAMEL BE UNDERSTOOD TO MEAN TYPOME WERE CONSISTENCY AND SAMEL NOT BE CONSISTENCY ON WITHOUT EXCEPTION OR CONSISTENCY OF SPECIFIC CONDITIONS.
- "Similar" means comparable to characteristics for the condition noted, verify dimensions and orientation on plan.
- "AS REQUIRED" MEANS AS REQUIRED BY RECULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY CENERALLY ACCEPTED CONSTRUCTION PRACTICE, OR BY THE CONTRACT DOCUMENTS. "AUGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
- 'THE (TERM "YERFY" DR "YME". SHALL BE UNDERSTOOD 10 MEAN "VERIFY IN FIELD WITH DIGNEER" AND RECURES THAT THE CONTRACTOR CONFIRM INTENTION REGARDING NOTED CONDITION AND PROCEED ONLY AFTER RECENING DIRECTION.
- HARER THE WOODS "OR EQUAL" OR WOODS OF SMALKE WITCH FOLDER A MOTERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SWARD PAPPOINAL OF ANY TORANDIAN TO SAID SPECIFICATION PRIOR TO CONTRACTION'S ORDERING OR INSTALLATION OF SUCH PROPOSED EQUAL PRODUCT.
- FURNISH : SUPPLY ONLY, OTHERS TO INSTALL: INSTALL: INSTALL ITEMS FURNISHED BY OTHERS, PROVIDE: FURNISH AND INSTALL

FIELD WELDING NOTES:

- WELDING TO BE PERFORMED BY AWS CERTIFIED WELDER FOR THE TYPE OF AND POSITION INDICATED. ALL WORK MUST BE IN CONTORMANCE WITH LATEST EDTICH OF AWS 01.1.
- GRUID SURFACES TO BE WEIDED WITH A SILICON CARBODE WHEEL PRIOR TO WELDING TO REMOVE ALL CALLAWARING RYNCH MAY DIMERWISE BE CONSUMED IN THE WEED METAL APPLY ANTI-SPATTER COMPOUND AFTER GRINDING.
- WEIGHNE (EAMNUE MAST MANRECE TRATEGRATIONE RESEARCH OF THE MAILE OF THE MAIL AND ALSO WALLESS, ANY ERAMMEN SCAME WHITH ALL WORK LACK AND THE MAILEST TRATEGRATE CHARGING THE MAILEST TRATEGRATE CHARGING THE MAILEST AND THE MAILEST TRATEGRATE AND THE MAILEST TRATEGRA
- WELDING MAY PRODUCE TOXIC FUMES. REFER TO ANSI STANDARD 249.1 "SAFETY IN WELDING AND CUTTING" FOR PROPER PRECAUTIONS.
- UPON COMPETION OF WILDING, JPPLY CALV-A-STICK, ZWC COATING TO ALL UMPROTECTES SURFACES, APPLY A SECOND LYPER OF COLD CALVANIZMICE SPAY, DESERVOUR COMPRISING A NAMEWHAN ZWC CONTIDIT OF 93%, IF NEEDESSARY, APPLY A FINAL COAT OF COMPATIBLE PAINT TO MATCH SURROUNDING SURFACES.

ANTENNA MOUNTING

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED ATTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-OPE GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE CALVANIZED IN ACCORDINGE WITH ASTM A153 "ZINC-COATING (HOT-OIR) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- MAGED CALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
- PRIOR TO SETTING ANTERNA AZMATINS AND DOWNETES, ANTERNA COMPOSICIOS SHALL CHECK THE AUTENNA MOURT AND RE THEMSES AND ESSUES THAT THEY ARE THALE ANTERNA AZMATINES SHALL BETSET FROM TRUE MOURTH AND RE CHECKED WITHIN 4/- 5X AS DETRIED BY THE REDS, ANTERNA DOWNTILES SHALL BE WITHIN 1/- 0.3X AS DEFRIED DY THE REDS.

TORQUE REQUIREMENTS

- ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH
- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
- B. CROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL
- ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NW).
- all grounding hardware shall be tightened until the lock washer collapses and the grounding

- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.

- USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION

- CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)892-5327

- UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
- REINSTALL LOCK ON DISCONNECT BOX

- A RF CONNECTION BOTH SIDES OF THE CONNECTOR.

- all oin type connections shall be tightened to 18—22 lb=ft (24.4 29.8 nm).
- ALL N TYPE CONNECTIONS SHALL BE TICHTENED TO 15-20 LB-IN (1.7 2.3 NW).

ROW UTILITY POLE CONSTRUCTION NOTES

- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" [.O.SBM].
- FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS
- CABLE NOT TO IMPEDE 15" [.381M] CLEAR SPACE OFF POLE FACE (12:00).
- 90 SHORT SWEEPS UNDER ARTENNA ARM, ALL CABLES MUST ONLY TRANSTION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
- USE 1/2" (.013M) CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.

NODE SITE POWER SHUT DOWN PROCEDURES

- FOR NON EMERGENCY/SCHEDULED POWER SHIT DOWN
- CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)892-5327 24 HOURS PRIOR TO SCHEDULED POWER SHUT OFF
- PROMOE THE FOLLOWING INFORMATION

 NO SITE NUMBER DEVIRTIES ON SITE NUMBERING STICKER

 VOUR NAME AND REASON FOR POWER SHUTGEF

 PROMDE DURATION OF OUTAGE
- UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
- POWER SHUT OFF VERIFICATION WITH APPROVED POSE PROCEDURES
- NOTIFY EXTENET NOC UPON COMPLETION OF WORK
- REINSTALL LOCK ON DISCONNECT BOX
- EMERGENCY POWER SHUT OFF

- PROVIDE THE FOLLOWING INFORMATION

 NOC STIE NUMBER DENTIFIED ON STIE NUMBERING STICKER

 TOUR NAME AND REASON FOR POWER SHUTGIFF

 PROVIDE DURNIEM OF DUTAGE
- POWER SHUT OFF VERIFICATION WITH APPROVED POWE PROCEDURES
- NOTIFY EXTENET NOC UPON COMPLETION OF WORK

- ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NW).

- TEST CROUND ROD WITH INSPECTION SLEEVE GROUND ROD

RF SIGNATURE

REAL ESTATE SIGNATURE

CONSTRUCTION SIGNATUR

WALL STRUCTURE EASE AREA

WOOD/WROUGHT IRON FENCE HAINLINK FENCE

- WATER LINE ETBACKS ROPERTY LINE (PL)
- DVERHEAD TELCO OVERHEAD POWER JNDERGROUND FIBER JNDERGROUND TELCO JNDERGROUND POWER
- HOVE GROUND TELCO/POWER

BOVE GROUND TELCO ABOYE GROUND POWER

- SECTION REFERENCE
- DETAIL REFERENCE

- EXOTHERMIC CONNECTION
- CHEMICAL ELECTROLYTIC GROUNDING SYSTEM TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM MECHANICAL CONNECTION
- EXOTHERMIC WITH INSPECTION SLEEVE GROUNDING BAR

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UNDERGROUND TELCO/POWER

-- ACT/P --- ACT/P --- ACT/P --ver - ver - ver - ver - ver - ver -





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BLACK & VEATCH CORPORATION 7760 FRANCE AVE SUITE 1200 BLOOMINGTON, MN 55435

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IT IS A VICUATION OF LAW FOR ANY PERSON, UNICES THEY ARE ACTING UNIDER THE DIRECTION OF A UNCHREEP PROPESSIONAL EMPIREER, TO ALTER THES DOCUMENT. PRIMINARY

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

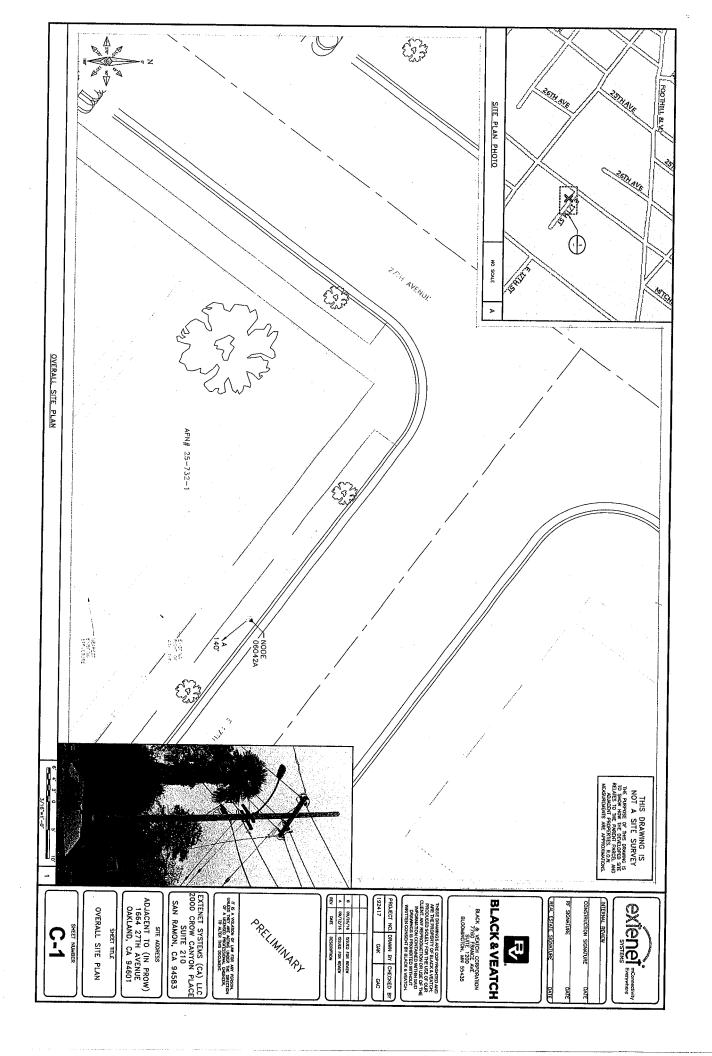
ADJACENT TO (IN PROW) 1664 27TH AVENUE OAKLAND, CA 94601 SITE ADDRESS

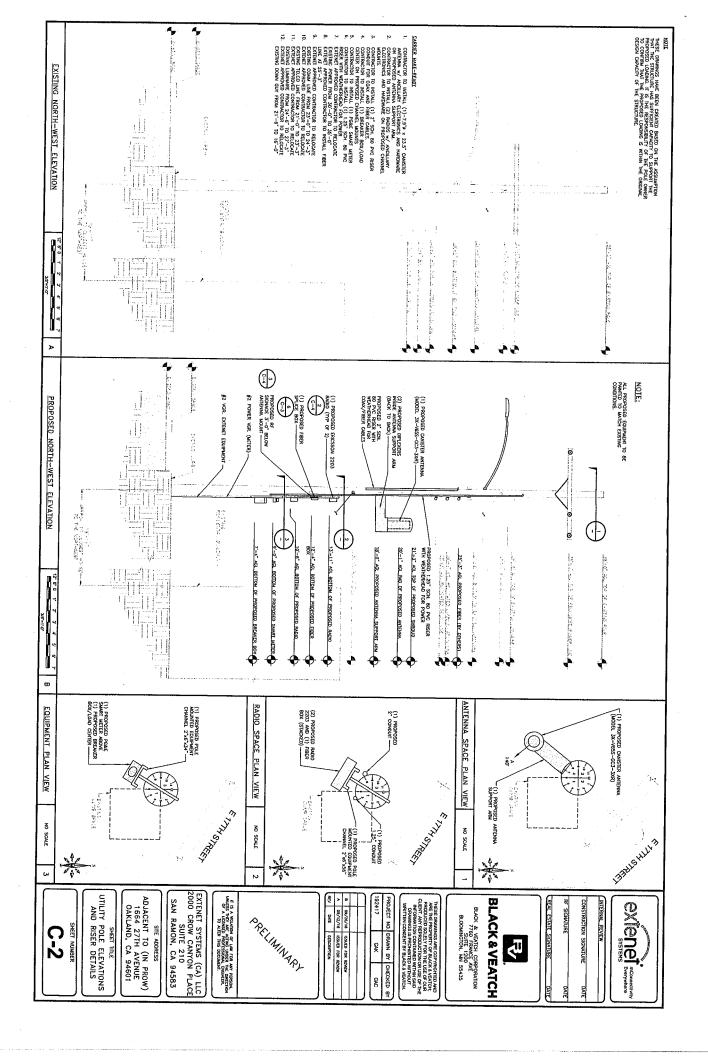
GENERAL NOTES
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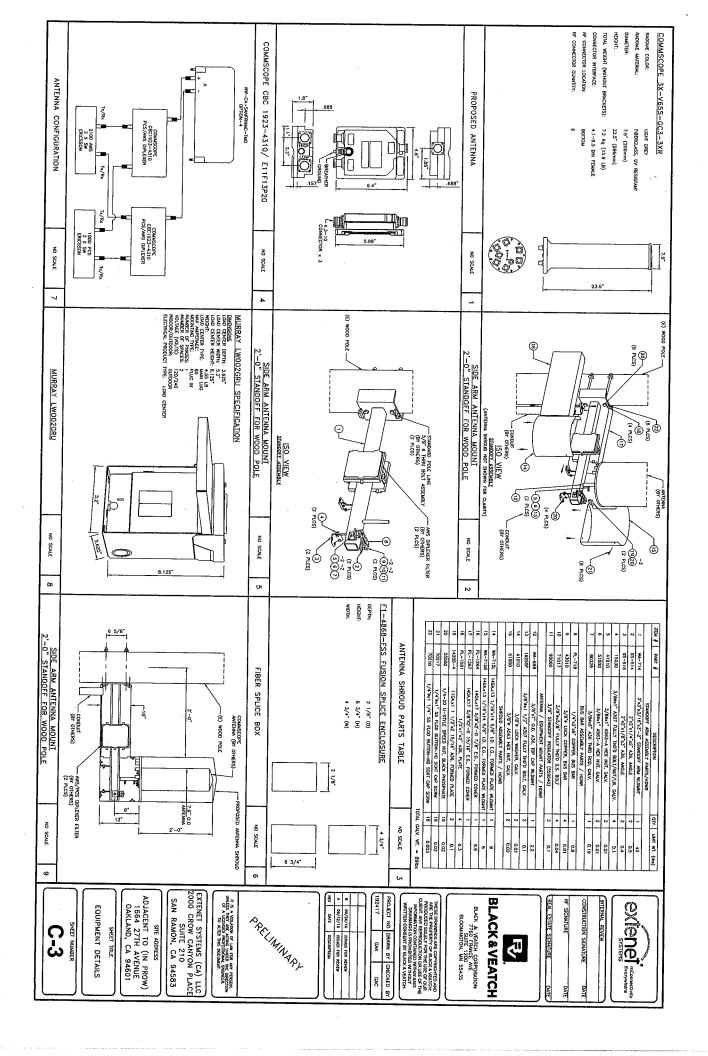
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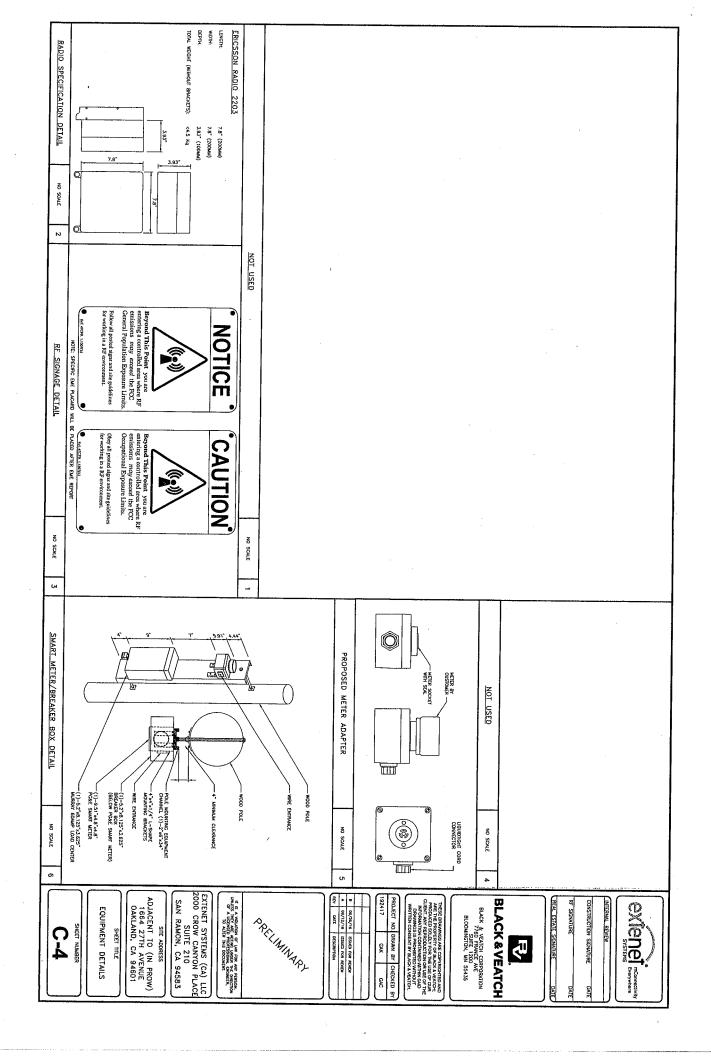
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GENERAL NOTES AND LEGENDS





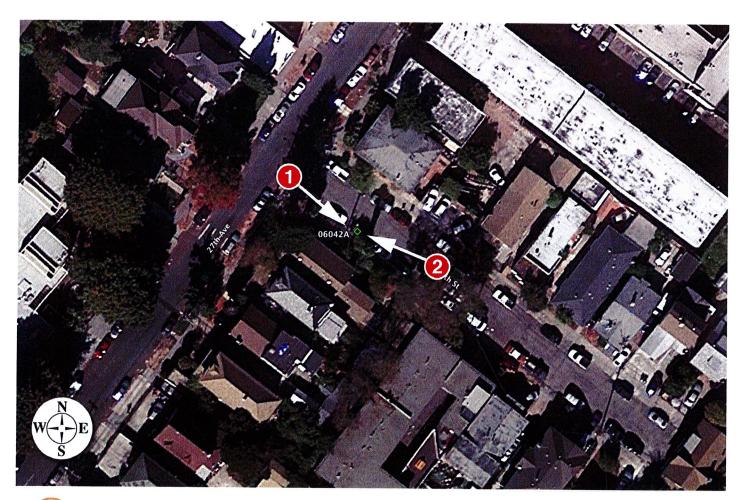




Attachment D

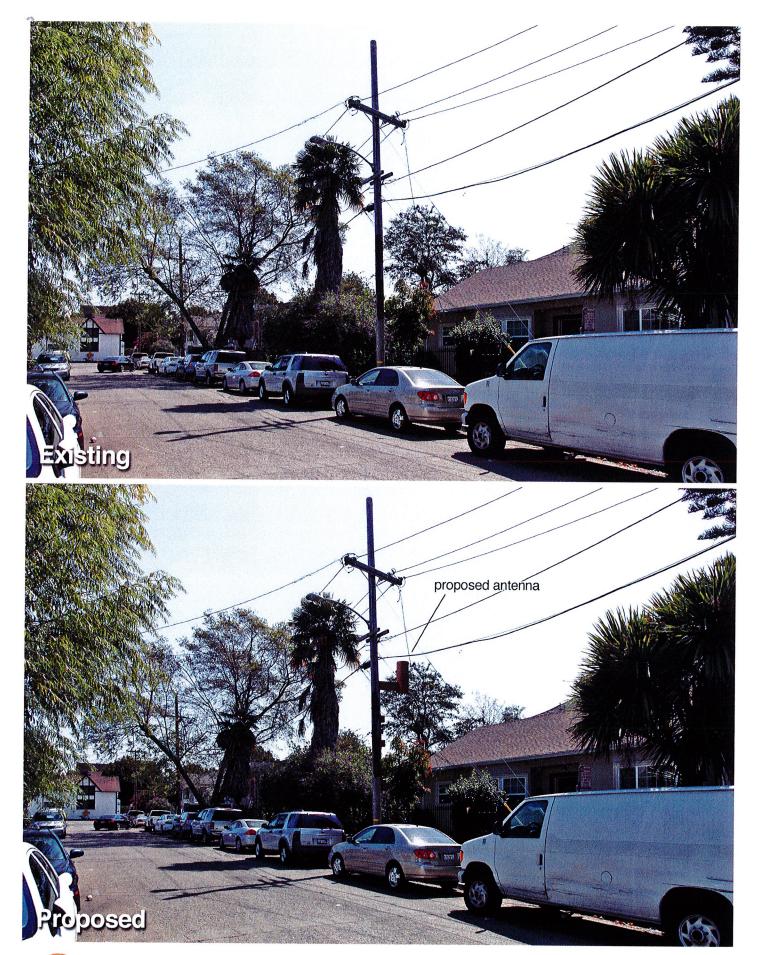








NW-CA-SANFRNMC 06042A









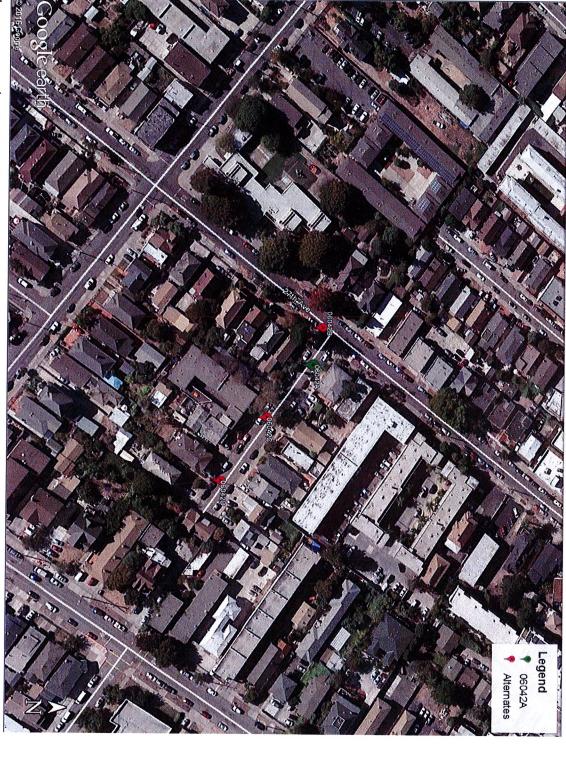


NW-CA-SANFRNMC 06042A



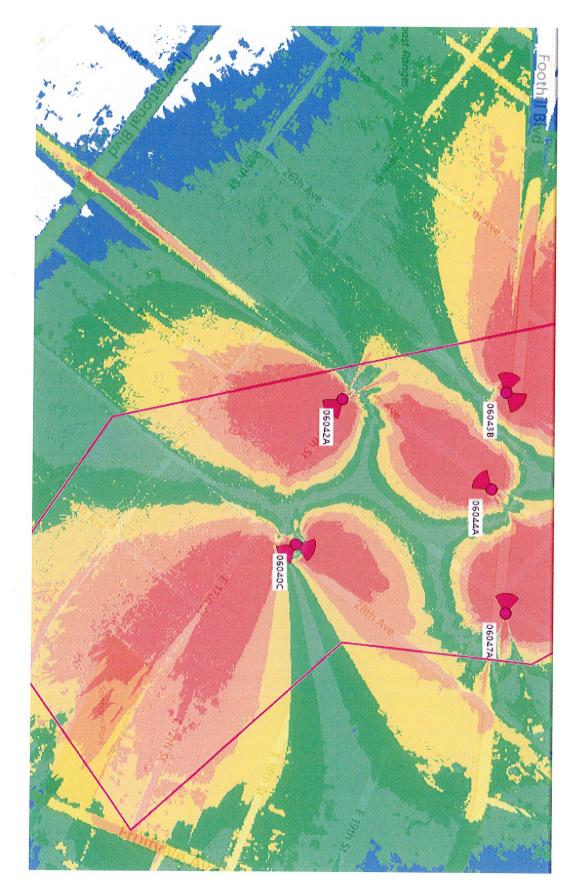
NODE 06042A EXTENET OAKLAND ALTERNATIVE SITE ANALYSIS

MAP OF ALTERNATIVE POLES EVALUATED FOR NODE 06042A



- evaluated as possibly being viable alternative candidates. The above maps depict ExteNet's proposed Node 06042A in relation to other poles in the area that were
- The following is an analysis of each of those 3 alternative locations.

PROPAGATION MAP OF NODE 06042A



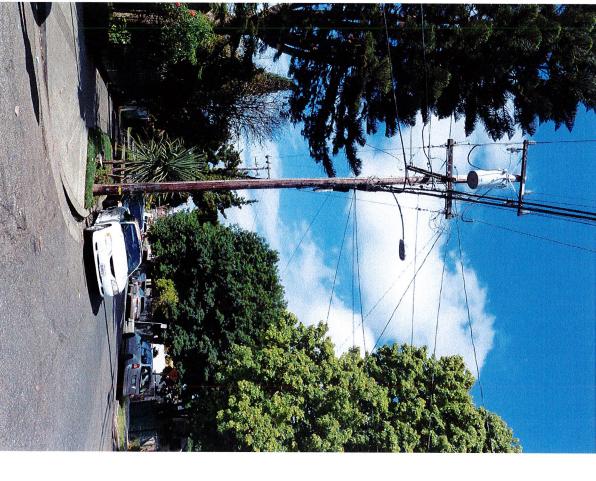
This propagation map depicts the ExteNet proposed Node 06042A in relation to surrounding proposed ExteNet small cell nodes.

06042A - PROPOSED LOCATION



- The location for ExteNet's proposed Node 06042A is a joint utility pole located adjacent to PROW at 1644 27th Avenue (37.783014, -122.229006).
- 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 06042B



- Node 06042B is a joint utility pole next to 27th Avenue (Across from 1643), (37.783072, -122.229207).
- 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.
- 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 candidate because this pole is located too far from primary Node 06044A.

ALTERNATIVE NODE 06042C



- Node 06042C is a joint utility pole at 2727 17th Street (37.782830, 122.228728)
- 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 far from primary Node 06044A.
- This pole is not a viable alternative candidate because it overlaps with primary Node 06040C.

ALTERNATIVE NODE 06042D



- Node 06042D is a joint utility pole near 2739 17th Street (37.782634, 122.228405).
- 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.
- This pole is not a viable alternative candidate because this pole is located too far from primary Node 06044A.
- This pole is not a viable alternative candidate because this pole overlaps with primary Node 06040C.

ALTERNATIVE SITE ANALYSIS CONCLUSION

intrusive location from which to fill the surrounding significant wireless coverage gaps. Based on ExteNet's analysis of alternative sites, the currently proposed Node 06042A is the least



ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06042A) 1644 27th 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 carrier, to evaluate the addition of Node No. 06042A 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 1644 27th 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 Radi	o) 855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency rang	ge] 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.



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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 26, 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 1644 27th 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 140°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/cm², which is 0.46% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 4.6% 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.



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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 1644 27th 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, P.E. 707/996-5200

No. E-18063

Exp.<u>6-30-201</u>7

October 10, 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.

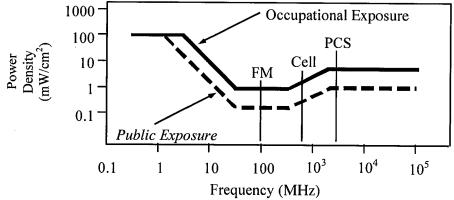


FCC Radio Frequency Protection Guide

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



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.

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.

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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 $1.6 (1.6 \times 1.6 = 2.56)$. 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.





March 31, 2017

City Planner Planning Department City of Oakland 250 Frank H. Ogawa Plaza, 2nd 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 1644 27th Avenue

Site ID:

NW-CA-SANFRNMC-TMO Node 06042A

Latitude/Longitude:

37.783014, -122.229006

Planning Application: PLN16357

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.

OraGomes BY BR Extellet

Thank you.

Best Regards,

Ana Gomez

ExteNet Permitting Contractor



March 31, 2017

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

Re:

Public Outreach Summary

Applicant:

ExteNet Systems (California) LLC

Nearest Site Address:

Public Right of Way near 1644 27th Avenue

Site ID:

NW-CA-SANFRNMC-TMO Node 06042A

Latitude/Longitude:

37.783014, -122.229006

Planning Application: PLN16357

Dear City Planner,

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

Pueblo

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

Ona Gomes /BV BR Extellet

Best Regards,

Ana Gomez

ExteNet Permitting Contractor



ExteNet is improving wireless service in Oakland!

January 4, 2017

ExteNet 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 ExteNet'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 ExteNet 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/

