

**BOARD OF APPEALS, CITY & COUNTY OF SAN FRANCISCO**

Appeal of  
ANKUR LUTHRA,

Appeal No. 19-087

Appellant(s)

VS.

SAN FRANCISCO PUBLIC WORKS  
BUREAU OF STREET USE AND MAPPING.

Respondent

## NOTICE OF APPEAL

**NOTICE IS HEREBY GIVEN THAT** on August 19, 2019, the above named appellant(s) filed an appeal with the Board of Appeals of the City and County of San Francisco from the decision or order of the above named department(s), commission, or officer.

The substance or effect of the decision or order appealed from is the ISSUANCE on August 05, 2019 to GTE Mobilnet of California, LP, of a Personal Wireless Service Facility Site Permit (construction of a personal wireless service facility in a Zoning Protected Location) at 1650 Baker Street.

**PERMIT NO. 16WR-0123**

**FOR HEARING ON October 16, 2019**

Address of Appellant(s):

Address of Other Parties:

Ankur Luthra, Appellant  
2901 Pine Street  
San Francisco, CA 94115

GTE Mobilnet of California, LP, Permit Holder  
c/o Paul Albritton, Attorney for Permit Holder  
Mackenzie & Albritton, LLP  
155 Sansome Street, Suite 800  
San Francisco, CA 94104



BOARD OF APPEALS

AUG 19 2019

APPEAL # 19-087

Date Filed:

CITY & COUNTY OF SAN FRANCISCO  
BOARD OF APPEALS

**PRELIMINARY STATEMENT OF APPEAL**

I / We, **Ankur Luthra**, hereby appeal the following departmental action: **ISSUANCE of Personal Wireless Service Facility Site Permit No. 16WR-0123** by the **San Francisco Public Works Bureau of Street Use and Mapping** which was issued or became effective on: **August 05, 2019**, to: **GTE Mobilnet of California, LP**, for the property located at: **1650 Baker Street**.

**BRIEFING SCHEDULE:**

The Appellant may, but is not required to, submit a one page (double-spaced) supplementary statement with this Preliminary Statement of Appeal. No exhibits or other submissions are allowed at this time.

Appellant's Brief is due on or before: **September 26, 2019, (no later than three Thursdays prior to the hearing date)**, up to 12 pages in length, double-spaced, with unlimited exhibits, with eleven (11) copies delivered to the Board office by 4:30 p.m., and with additional copies delivered to the other parties the same day. In addition, an electronic copy should be emailed to: boardofappeals@sfgov.org if possible. AL

Respondent's and Other Parties' Briefs are due on or before: **October 10, 2019, (no later than one Thursday prior to hearing date)**, up to 12 pages in length, doubled-spaced, with unlimited exhibits, with eleven (11) copies delivered to the Board office by 4:30 p.m., and with additional copies delivered to the other parties the same day. In addition, an electronic copy should be emailed to: boardofappeals@sfgov.org if possible.

**Only photographs and drawings may be submitted by the parties at the hearing.**

Hearing Date: **Wednesday, October 16, 2019, 5:00 p.m., City Hall, Room 416, One Dr. Carlton B. Goodlett Place.**

All parties to this appeal must adhere to the briefing schedule above, however if the hearing date is changed, the briefing schedule **MAY** also be changed. Written notice will be provided of any change to the briefing schedule.

In order to have their documents sent to the Board members prior to hearing, **members of the public** should submit eleven (11) copies of all documents of support/opposition no later than one Thursday prior to hearing date by 4:30 p.m. Please note that names and contact information included in submittals from members of the public will become part of the public record. Submittals from members of the public may be made anonymously.

**Please note** that in addition to the parties' briefs, any materials that the Board receives relevant to this appeal, including letters of support/opposition from members of the public, are distributed to Board members prior to hearing. All such materials are available for inspection at the Board's office. You may also request a copy of the packet of materials that are provided to Board members at a cost of 10 cents per page, per S.F. Admin. Code Ch. 67.28.

***If you have any questions please call the Board of Appeals at 415-575-6880***

**The reasons for this appeal are as follows:**

See attached statement.

**Appellant or Agent (Circle One):**

Signature: 

Print Name: Ankur Luthra

I, Ankur Luthra, am filing this appeal on behalf of my neighbors and myself against the issuance of permit #16WR-0123, located at 1650 Baker Street.

The Applicant failed to fully comply with all requirements of Article 25 of the Public Works Code. In addition, the Planning department incorrectly determined that the application met the applicable Tier Compatibility Standard.

Thank you for your consideration.

BOARD OF APPEALS

AUG 19 2019

APPEAL # 19-087



City and County of San Francisco  
San Francisco Public Works - Bureau of Street Use and Mapping  
1155 Market Street, 3<sup>rd</sup> Floor - San Francisco, CA 94103  
sfpublicworks.org · tel 415-554-5810 · fax 415-554-6161

**BOARD OF APPEALS**

**AUG 19 2019**

**APPEAL # 19-087**



**16WR-0123**

***Wireless Box Permit***

**Address : 1650 BAKER ST**

**Cost: \$2,094.55**

**Block:1048 Lot: 028 Zip: 94115**

**GTE Mobilnet of California, Limited Partnership**

**Name:** GTE Mobilnet of California, Limited Partnership

**MANDATORY COORDINATION WITH CONFLICTING PERMITS IS REQUIRED. PERMIT HOLDER SHALL NOT COMMENCE WORK WITHOUT FIRST PROPERLY COORDINATING WITH EXISTING PERMIT HOLDERS AS NOTED ON THE EXCEPTION PAGE(S) OF THIS PERMIT. IF THIS PERMIT CONFLICTS WITH A CITY PROJECT OR OTHER APPROVED PERMIT, THE PERMIT HOLDER OF THIS PERMIT SHALL BE RESPONSIBLE FOR THE PROPER COORDINATION AND EVALUATION OF THE SITE PRIOR TO COMMENCING WORK.**



<b>Conditions</b>	
<b>Contact</b> 247	Refer to Agent
<b>Permit Comments</b>	
<b>Service Address</b>	
<b>Wireless Machine Type</b>	
<b>Wireless Tier</b>	TierB
<b>Permit Pole Location</b>	E side of Baker St in between Pine St & Bush St
<b>Permit Wireless Antenna</b>	1
<b>Permit Wireless AntMakeModel</b>	Amphenol CUUT070X12F
<b>Permit Planning Location</b>	
<b>Permit Tier Comments</b>	
<b>Permit Wireless DPH</b>	Applicant is using equipment for the first time. Attached is an original verified statement from a registered engineer that: (i) potential human exposure to radio frequency emissions from the proposed Personal Wireless Service Facility is within the FCC guidelines; and (ii) noise at any time of the day or night from the proposed Personal Wireless Service Facility is not greater than forty-five (45) dBA as measured at a distance three (3) feet from any residential building facade.
<b>Permit Planning Approval</b>	The proposed Personal Wireless Service Facility is in Zoning Protected Location.
<b>Permit Utility Conditions</b>	Applicant has a valid Utility Conditions Permit
<b>Permit Tier3 Std</b>	
<b>Permit Tier3 Std1</b>	
<b>Permit Tier3 Std2</b>	
<b>Permit Wireless Documents</b>	
<b>Permit_Auto_StartDate_Ind</b>	Y

The undersigned Permittee hereby agrees to comply with all requirements and conditions noted on this permit

Approved Date : 08/05/2019

\_\_\_\_\_  
Applicant/Permittee

\_\_\_\_\_  
Date

Printed : 8/5/2019 12:00:59 PM

Plan Checker

Lulu Brien



# Special Conditions

16WR-0123

## Conditions

San Francisco Public Works Conditions:

1. This recommendation is based on no variation from the depicted drawings and/or photo simulation; if a variation is different a re-submittal is required. Should the installation vary from said conditions, it should be resubmitted to Department(s) for further review and comment
2. New Poles: no new poles shall be erected or placed in underground districts. This condition shall not apply to replacing existing streetlight or transit poles.
3. Down Guys: Follow all excavation codes to obtain the necessary permits for placement of down guys. Down guy shall avoid crossing conflicting areas but not limited to driveways, curb ramps.
4. Comply with ADA code requirements for Federal, State, local laws. Make sure path of minimum required clear width for accessible path of travel is four feet.
5. At the conclusion of the work, provide a set of as built photos of the installation to the Bureau Street Use & Mapping Permit Office.
6. Maintain a valid certification of insurance annually and forward a copy to the Bureau Street Use & Mapping Permit Office.

San Francisco Department of Public Health Conditions:

? Ensure that any equipment associated with the pole installation of this antenna does not produce a noise in excess of 45 dBA as measured at three (3) feet from the nearest residential building façade.

? Ensure that there are no publicly occupied areas within thirty-six (36) feet from the face of the antenna.

? This approval is for the antenna directions listed in the report. If an additional direction is activated a new RF report will be required.

? Once the antenna is installed, Verizon Wireless must take RF power density measurements with the antenna operating at full power to verify the level reported in the Ebi Consulting report and to ensure that the FCC public exposure level is not exceeded in any publicly accessible area. This measurement must be taken again at the time of the permit renewal.

? Verizon Wireless should be aware that the general public may have concerns about the antenna and potential RF source near their dwellings. Verizon Wireless should have in place a procedure for taking RF power density levels in nearby dwellings when requested by the members of the general public.

? In accordance with the San Francisco Public Works Code, Art. 25, Sec. 1527 (a)(2)(C) Verizon Wireless is responsible for paying a fee of \$210.00 to the San Francisco Department of Public Health for this review.

Please note that this approval and any conditions apply only to the equipment and installation as described. If any changes in the equipment or any increase in the effective radiated power described above are made, a new review by the Department of Public Health must be conducted.

San Francisco Planning Department Conditions:

1. Combiner shroud not to exceed 8" in depth and 14" in width.
2. Plant and maintain an appropriate street tree.
3. No exposed meter, meter pan or meter pedestal may be used.
4. Antenna, and all equipment (external conduit, radio relay units, blinders used to shroud bracket bolts [if needed], and mounting mechanisms); except signage, if used for screening, shall all be painted to match the pole and repainted as needed.
5. Cabling below radio relay units shall enter the pole with no more than a five-inch gap between bottom of each radio relay unit and the bottom of the corresponding entry hole on the pole. Conduit connection at pole entry points shall utilize the smallest fitting sizes available. Sealing compounds, if utilized, shall be tidy without excess bubbling and painted to match pole.
6. Remove raised equipment signage (including filling in manufacturer logo indentations on radio relay units/cabinets) and equipment decals that may be visible from sidewalk and dwellings, unless required by government regulation.
7. Utilize smallest RF warning signage allowed (4 x 6 inches); and place the warning sticker facing out toward street, at a location as close to antenna as is feasible. Sticker shall face away from street, when not facing a nearby window within 15 feet. Background color of sticker shall match the pole-mounting surface; and logo and text shall be white.
8. Stack equipment enclosures (not including antenna) as close as allowed by applicable regulation and manufacturer equipment standards.
9. Seams and bolts/screws at antenna and shroud assembly area shall be fabricated and installed in a manner so as to reduce their visibility (e.g. flush mounting screws) from sidewalk level.
10. Not utilize any visible flashing indicator lights or similar.
11. Not obstruct the view from, or the light into any adjacent residential window.
12. New below ground enclosure excavations (vault), if utilized, shall not damage or remove granite curbs. No significant gaps shall be created between vault enclosure lid and primary sidewalk material due to installation. Any other existing historic architectural elements within the public right-of-way shall be retained and protected during installation. No carrier logo or carrier name may be placed on the vault lid.
13. Non-essential radio relay unit elements (handle and legs) shall be removed.
14. The installer shall arrange to have Planning Department staff review the initial installation, in order to ensure compliance with the aforementioned conditions (notwithstanding inspections by pole owner and Department of Public Works).
15. Ensure Wi-Fi Access Points and associated wiring, utilized by the City's Department of Technology, are not damaged during installation (if present).
16. Should the installation vary from said conditions, the application shall be resubmitted to the Planning Department for further review and comment.



# Permit Addresses

16WR-0123

\*RW = RockWheel, SMC = Surface Mounted Cabinets, S/W = Sidewalk Work, DB = Directional Boring,  
BP= Reinforced Concrete Bus Pad, UB = Reinforced Concrete for Utility Pull Boxes and Curb Ramps  
Green background: Staging Only

Number of blocks: 1    Total repair size:0 sqft    Total Streetspace:0    Total Sidewalk: sqft

ID	Street Name	From St	To St	Sides	*Other	Asphalt	Concrete	Street Space Feet	Sidewalk Feet
1	BAKER ST	BUSH ST	PINE ST	East	RW : False SMC : False S/W Only : False DB: False BP: False UB: False	0	0	0	
Total						0	0	0	

# Exceptions - Coordination

*It is mandatory that you coordinate your permit with the following jobs listed. You will be required to call each contact listed and create a note including the date contact was made, agreed coordination, name of contact, or date message(s) left if unable to reach a contact.*

## Street Use Conflicts:

Job #	Activity	Contact	
19EXC-01751	Esquivel Grading & Paving, Inc. - Conflict with existing excavation permit. It is mandatory that you coordinate all work for joint paving.	415-354-4870 - 415-354-4870	<input type="checkbox"/>
Your Notes:			
Streets:	BAKER ST / BUSH ST - PINE ST -		

## Permit Conflicts:

permit	Dates	Agency	Contact	
Your Notes:				
Streets:				



# Exceptions

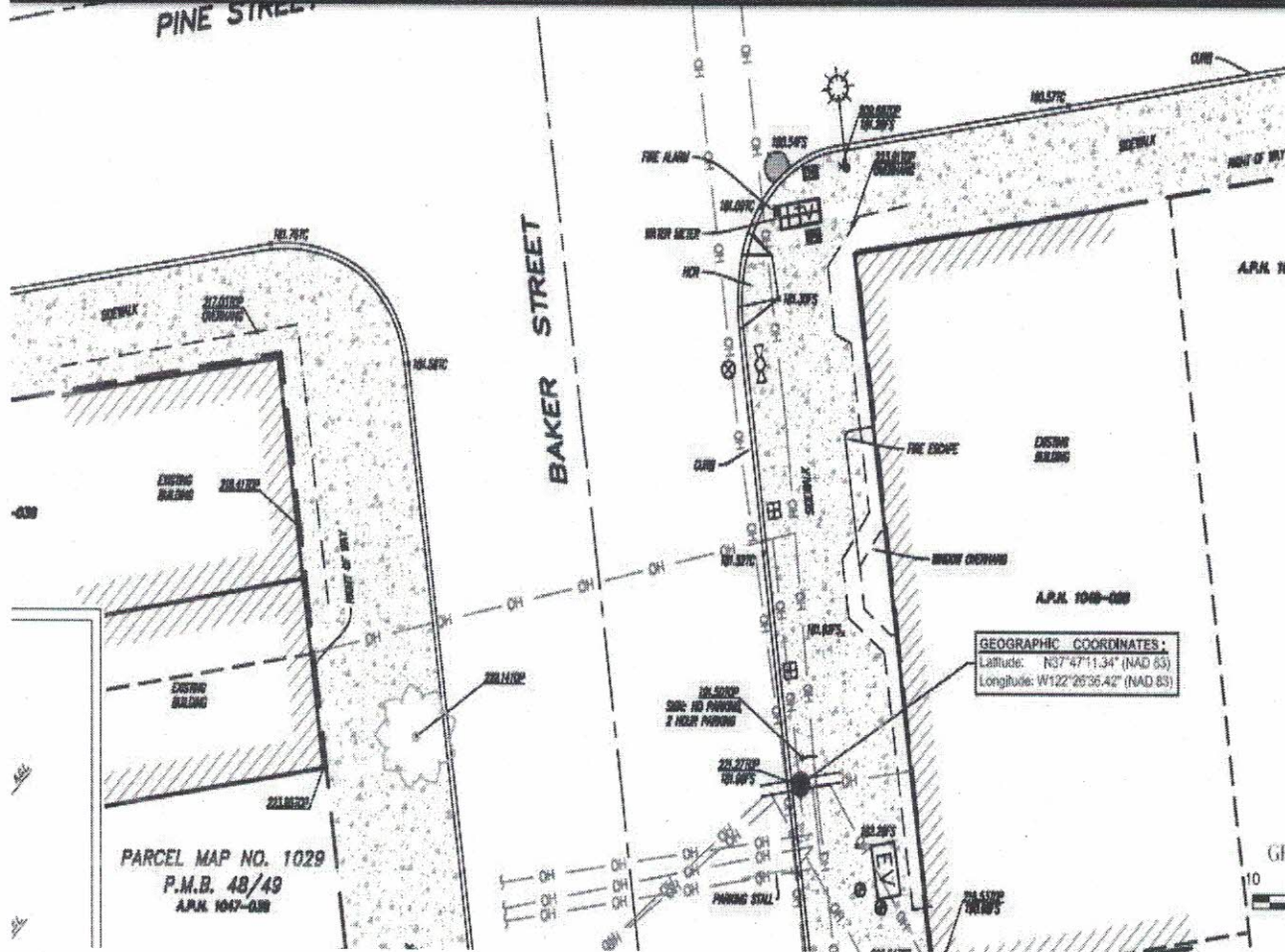
16WR-0123

Street Name	From St	To St	Message	Job	Contact	Dates
BAKER ST						
	BUSH ST	PINE ST -	Please see special paving requirements for Moratorium Streets.	2796J		Feb 12 2019-Feb 12 2024
	BUSH ST	PINE ST -	Proposed Excavation.	SF PUC Water	CDD Engineering -	Nov 20 2020-Nov 20 2021
	BUSH ST	PINE ST -	Sidewalk Paving to be done by SIRP Process	SIRP Work Order	Empire Engineering & Construction Co. -	



PINE STREET

BAKER STREET



# **BRIEF(S) SUBMITTED BY APPELLANT(S)**

HD: 11/13/19

City and Country of San Francisco Board of Appeals

1650 Mission Street, Suite 304

San Francisco, CA 94103

BOARD OF APPEALS

OCT 24 2019

APPEAL #

19-087

Regarding: Appeal 19-087

Subject Property: 1650 Baker Street

Subject: Appeal of Permit 16WR-0123

FILE

Dear Board of Appeal Commissioners:

Thank you for taking the time to hear our appeal. We respectfully request the Board to overturn the issued permit above, and we will explain why that is the correct action and why this issued permit both violates necessary requirements for approval and was issued incorrectly.

First, installation clearly detracts from the defining characteristics of the neighborhood and therefore must not be allowed. As a result, it violates the Tier B Compatibility standard.

Second, the rules of Article 25 were not followed properly, and the applicant violated many requirements and potentially committed fraud. DPH's own report should have been invalid, Planning failed in its assessment, and DPW should have never issued the permit.

**1) The installation clearly detracts from the defining characteristics of the neighborhood and thus violates the Tier B compatibility Standard.**

The proposed Personal Wireless Service Facility would significantly detract from the defining characteristics of this Residential district. Our district is a RH-2 (Residential House, 2 Family) with, as the city says, has homes of “limited scale in terms of building width and height.” (Exhibit 1, Planning’s own document, Planning case number 2017-015753MIS).

Let me start with some context on what, exactly, we are talking about here.

Our neighborhood:

- 1650 Baker Street is located on Baker between Bush Street & Pine Street, which is a 40-X zone, meaning all buildings are 40 feet or less.
- The homes on the street are beautiful Victorians that are indeed “limited in height” and on average the homes are closer to 38-39 feet (taking an average of the homes on the block). In addition, all the power poles are less than 40 feet.
- This limited height level averaging less than 40 feet is a key (if not THE key) defining characteristic of our neighborhood. Please remember, Planning has no record of visiting our neighborhood for this installation, which also contributed to their incorrect determination here.

The typical Verizon small cell installation, for context:



- Most small cell installations have usually been on lightpoles. For example, see Exhibit 2 for a picture of two lightpoles on Beach street in the Marina, one without the small cell installation and one with it – quite a modest height difference.
- Also, for another more concrete example, see Exhibit 3, where the installation is a 110 watt small cell. Without the small cell, the top height of the pole is 30 feet 4 inches, and after installing the small cell, the top height is 32 feet. In other words, a modest 20 INCHES was added to the net height.
- In fact, Verizon itself in its applications with the city says “each pole facility would consist of one antenna placed between 20 to 40 feet above grade, but generally around 30 feet above grade” (Exhibit 4) – Verizon effectively said the typical installation would be 30 feet above grade, and its language seemed to indicate also that the antenna would not be placed above 40 feet above grade – but at 1650 Baker, the top of the Antenna is OVER 51 FEET above grade (and its bottom is installed at almost 46 feet above grade)

Here at 1650 Baker Street:

- In our case here, the “Existing Pole Height” is 39 feet 3 inches, as shown in Verizon’s own Analysis submitted to the DPW (Exhibit 5) and Verizon’s own submitted plans/drawings. After Verizon’s installation, Verizon itself shows the Proposed total height is an ADDITIONAL 12 FEET, or 144 inches, in height. The new height would be 51 feet 3 inches!

- Compare this extension to the typical installation (as shown prior, above and in Exhibit 3) which is 20 INCHES added height– versus here, again, is OVER 7 TIMES THAT – 12 FEET added.
- It is worth noting that, in addition, the small cell itself is over 3500 WATTS! More than 30 TIMES that of the prior example. In our view, massive wattage installations like this simply do not belong in neighborhoods. But while that is not the crux of our argument, we would like the board to know that “not all small cells are created equal” – even though documentation we reviewed at the city level fails to differentiate between 110 watt installations versus 3500 watt ones and blankets them all as “small cells” as if they are all effectively the same (they aren’t!)
- Verizon may claim the small cell antenna itself is a smaller height, but that is irrelevant. What is relevant is – how large is the installation as a whole and how much total height does it add?

Due to PG&E rules, to install at this pole, a “bayonet” / extension is first installed and then the small cell is installed on top of that. If anything, this rule should prevent Verizon from picking this pole in the first place since it requires too much height to be added in a neighborhood that is characterized with homes of limited height averaging 38-39 feet (some poles in the city do not need a bayonet, for example).

- In sum: the total installation from Verizon would be about 12 FEET IN HEIGHT and take the total height of this pole, from 39'3" (39 feet 3 inches) at present, to OVER 51 FEET TALL.

The result? And this is the key part:

- The installation is like a flying UFO, floating and hovering in the sky above the entire neighborhood. This result is terrible but no surprise –all the homes and poles on the block are shorter than 40 feet, while this installation is enormous (a top over 51 feet tall). We have done some sample renderings to give a sense of that crazy height added and its effect (Exhibit 6).
- “Flying UFO”, “sticks out like a sore thumb” are all true characterizations – Planning made an erroneous and incorrect judgement here. In addition, this “Flying UFO” incommodes the street and the quiet use/enjoyment of the street as well as a result, something that even at the state level the law says is illegal when installing or building anything in the public right of way.
- We have also included some sample pictures from our neighborhood for reference so one may see what it looks like and its limited scale (Exhibit 7).
- Simply put, it clearly detracts from the defining characteristics of the neighborhood and therefore must not be allowed.

### And a further point – the clutter

While this is not the crux of our argument, we do think, for context sake, it is also important for the board to know more about the pole in question. Please see Exhibit 8 (Picture of the pole) for how much clutter is already on this pole itself. It is already at a tipping point, where additional clutter is simply excessive. The Verizon installation adds many boxes and attachments, in addition to an additional 12 foot installation at the top of this pole.

Not only are residents affected by this, but so are the growing number of tourists in our area. This neighborhood is a growing tourist zone, thanks to the highly popular “Full House House” that is 1 block away on Broderick Street. Thanks to Instagram, The Full House House (FHH) is becoming one of the more popular spots that young tourists want to see - young people want to take pictures in front of the FHH and post it on their social media accounts. Tourists often park on our block to see the FHH, and naturally, walk around the area afterwards to see the other Victorians on the nearby quiet block on Baker where we live. This additional clutter hurts both the residents and the tourists in the area.

### **2) Process violations should deem the permit invalid in the first place, and the mandatory requirements of Article 25 were not met**

#### **Hammett and Edison (H&E) report is invalid**

- As mandated by city law to receive a permit, the applicant (Verizon / Modus) needed to hire a RF radio frequency engineer to assess the proposed installation. Verizon hired H&E



- The H&E report has a conclusion page which is signed by the engineer that conducted the study and wrote the report. It is the ONLY page that is signed by the H&E Engineer (named Andrea Bright) and the only page that has her official stamp as a registered California Professional Engineer.
- A copy of this signature page and stamp page is included as Exhibit 9.
- To quote, it says: “Based on the information and analysis above, it is the undersigned’s professional opinion that operation of the small cell proposed by Verizon Wireless at 1867 39th Avenue in San Francisco, 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.”  
(Emphasis mine, underlined)
- This address is THE WRONG ADDRESS (it is not 1650 Baker Street). The engineer seems to have “cut and pasted” from another report and just applied it blindly here to a completely different location, which at worst is fraud and at best is negligence.
- Either way, as a result, there does NOT exist any signed and stamped conclusion about 1650 Baker Street.
- While the top of the page says 1650 Baker as a printed header to the document, the actual signed page (the only signed & stamped page in the document) and the conclusion statement clearly states it’s for 1867 39th Avenue –which means this is not a valid signed report for our address on Baker St.

## **The DPH and DPW installation requirements have a history of not being met**

- Arthur Duque of DPH is the Senior Environmental Health Inspector at San Francisco Dept of Public Health -Radio frequency program. He is the only person in the Radio Frequency Program at the DPH (Exhibit 10).
- Arthur writes, in the letter stating DPH's approval conditions in the section titled Approval Conditions, that "Once the antenna is installed, Verizon Wireless must take RF power density measurements with the antenna operating at full power to verify the level reported in the Ebi Consulting report and to ensure that the FCC public exposure level is not exceeded in any publicly accessible area."
- The language here is clear – it is a requirement of the permit. And yet:
- Exhibit 11 --- Arthur Duque of DPH himself has admitted in writing, in an email he sent March 21, 2019 (only months ago) to DPW, saying "DPH has not been getting any of the post-test results since I've been in this program." [for reference: he has been with DPH for over 8 years].
- That means Arthur admits in writing that for YEARS, he has not received required post-installation reports as required by the permit. We cannot allow such a blatant violation to continue and cannot trust the wireless companies to adhere by the clauses in the permit.
- DPW itself also admits in writing (Exhibit 11) that (1) there is no document with information concerning post-installation compliance (2) there is no information about the cumulative effect of installed wireless facilities (3) there are no documents that

compare pre-installation with post-installation RF reports.

**DPH's own report is invalid and its determination was improper and incorrect**

- Arthur Duque of DPH (aforementioned, with his bio in Exhibit 8) also wrote up his own report about the proposed installation at 1650 Baker.
- His report (Exhibit 12) merely cites the invalid H&E report above.
- Therefore, by citing an invalid report as its only evidence, DPH's own assessment has failed and is invalid as well – as a result, the permit should have never been issued since a valid DPH report is needed as a mandatory criteria for the permit.
- In addition, as shown in the last section, Arthur's determination from DPH is inherently unreliable because for years he personally has failed to verify the representations in H&E reports, including what emissions these cell towers produce once installed - despite for years making that a condition of his and DPH's approval.

**Planning failed in their responsibility of properly assessing this neighborhood and location (this is in addition to the incorrect determination from Planning that we explained in the first part of this brief).**

- Planning issued a document called "Design Preferences for Personal Wireless Facilities"
- In this document, Planning specifically cites: "Top mounted and side mounted antennas offer various advantages and challenges from both an RF and visibility

perspective; requiring a case by case review. For example, a top mounted antenna with a very tall extension arm may look out of character in a low lying residential neighborhood” (Exhibit 13) – which is, in fact, exactly the situation on our block of Baker street with the proposed installation. Planning is right – an installation like the 12 FOOT tall addition at 1650 Baker is indeed “out of character”

- While Planning may not be required to visit ALL proposed sites, their own document mentions the need in a case like ours at 1650 Baker for “requiring a case by case review” (Exhibit 13)
- However, there is no evidence that planning did the required case by case review cited in this language and document. There is no evidence that planning even visited the site. The language used in planning’s letter is boilerplate and matches that of other residential sites.

**Verizon failed to meet mandatory requirements, which prohibited the DPW from issuing the permit**

- Agatha Kehayas of Modus (representative of Verizon) sent out a notification email to neighbors of the proposed installation site (Exhibit 14)
- Her email was required to include a Proposed Equipment and Antenna plan that could be reviewed. This is a very important thing for the residents nearby to review properly. However, the one she attached was completely unreadable and blurry – in our opinion, this indicates a clear intent to deceive. (Exhibit 14)

- She attached the same RF report from H&E as the above cited one – where the signature and stamp was for a different address entirely, that of 1867 39th Avenue (Exhibit 9)
- By sending our unreadable documents, and by sending out the invalid RF report based on another different address, Verizon failed its requirements for the permit, and their actions show negligence at best and a fraudulent attempt to deceive at worst.

### **Structural engineering report deems the installation not safe**

- Comm-Sense Consulting, a structural engineering company, was hired by Modus / Verizon to conduct analysis “to determine if the wood pole is structurally adequate to support the proposed loadings” of the antenna and the mounting bracket and other equipment (Exhibit 15)
- The report says “RECOMMENDATIONS: The wood pole can safely support the proposed scope of work provided the pole is replaced with a pole of higher capacity.”
- In other words, the current pole at 1650 Baker Street as it is cannot support the installation.
- In fact the report says, in their Existing Pole Analysis, that the pole load with this installation on the existing pole would be 120.4% of what the pole can hold (in other words, more than the pole can safely hold) (Exhibit 15)
- Verizon’s own plans (Exhibit 16) show no mention of a replacement pole and show use of the existing pole.

Given the above, significant evidence exists of a scheme to defraud by Verizon, and significant evidence exists of negligence by the DPH, DPW, and Planning Department, none of whom should have approved the permit. The permit did not meet many of the requirements to be issued and should have never been issued in the first place. Verizon's agents repeatedly, and potentially fraudulently, misrepresented approval conditions. Appellants request that, for the many reasons above, the Board should uphold this Appeal and deny the Permit. Thank you.



## Exhibit Table of Contents

- Exhibit 1: Planning Department's case number 2017-015753MIS for DPW permit 16WR-0123
- Exhibit 2: For reference - Two small cell installations on the same block on Beach St.
- Exhibit 3: For reference - architectural plans for a small cell installation on Pacific Ave.
- Exhibit 4: Modus-Verizon's submission to Planning giving a Project Description for its small-cell installations in Pacific Heights
- Exhibit 5: Verizon's own analysis with the current and post-installation height at 1650 Baker
- Exhibit 6: Sample renderings to illustrate before and after height change
- Exhibit 7: For reference - Pictures of the neighborhood (Baker Street near 1650 Baker)
- Exhibit 8: Photograph of the pole at 1650 Baker Street
- Exhibit 9: Signature page and stamp page for the Hammett & Edison report submitted for DPW permit 16WR-0123
- Exhibit 10: Background and bio for Arthur Duque of DPH, Radio Frequency Program
- Exhibit 11: Email from Arthur Duque explaining DPH has never received a required post installation report, as well as Leo Palacios at DPW answering questions about post installation assessment as required by DPW
- Exhibit 12: Letter from DPH citing the Hammett & Edison report
- Exhibit 13: Planning Dept. document: Design Preferences for Personal Wireless Service Facilities
- Exhibit 14: Attachment sent by Verizon representative Agatha Kehayas and a printout of the attachment she sent of the Proposed Equipment and Antenna Plan
- Exhibit 15: Structural Engineering report as submitted by Verizon / its representatives
- Exhibit 16: Architect plans for Verizon's proposed installation

# Exhibit 1



## SAN FRANCISCO PLANNING DEPARTMENT

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*Date:* February 6, 2019  
*DPW Permit No.:* **16WR-0123**  
*Planning Case No:* 2017-015753MIS  
*Project Address:* 1650 Baker Street - Verizon ROW WTS Facility  
Wood Pole owned by Joint Pole Association  
*Project Sponsor:* Kevin Bowyer  
Modus for Verizon  
240 Stockton Street, 3<sup>rd</sup> Floor  
San Ramon, CA 94583  
*Staff Contact:* Ashley Lindsay – 415-575-9178  
*Ashley.Lindsay@sfgov.org*  
*Determination:* **Approval with Conditions**

1650 Mission St.  
Suite 400  
San Francisco,  
CA 94103-2479

Reception:  
**415.558.6378**

Fax:  
**415.558.6409**

Planning  
Information:  
**415.558.6377**

Department of Public Works Code Article 25 and Order No. 183,440 require review by the Planning Department to determine that the Application for a Tier A or Tier B Personal Wireless Service Facility Site Permit satisfies the applicable Tier A or Tier B Compatibility Standard. An Application for a Tier B Personal Wireless Service Facility Site Permit shall satisfy the Tier B Compatibility Standard for a Zoning and/or a Planning Protected Location, and shall not obstruct the view from or the light into any adjacent residential window. A proposed Personal Wireless Service Facility shall be consistent with the public health, safety, convenience and general welfare and will not unreasonably affect, intrude upon or diminish any identified City resource.

### DETERMINATION

The Planning Department determines that the proposed Personal Wireless Service Facility **WOULD NOT** significantly detract from the character of the adjacent residential/commercial/mixed-use Districts, Scenic Vistas; or potential and or known historic Buildings; Districts. The Planning Department recommends **APPROVAL WITH CONDITIONS** in conformance with architectural plans dated December 18, 2018 and photo simulations dated December 26, 2018, and associated with DPW Wireless Application No. 16WR-0123.

### Findings:

The proposed Tier B Personal Wireless Service Facility is to be located in the public right-of-way in a Zoning Protected Location, adjacent to 1650 Baker Street - Verizon ROW WTS Facility, and on a street with **Undesignated Street Views**.

The proposed Personal Wireless Service Facility is, on balance, consistent with Article 25 of the Public Works Code and the Objectives and Policies of the General Plan, as follows:

### Article 25 Compliance:

- I. The proposed Personal Wireless Service Facility would not significantly detract from any of the defining characteristics of the Residential or Neighborhood Commercial zoning district. This site is located within the RH-2 zoning district.

*The proposed Verizon Wireless personal wireless service facility would be situated within the RH-2 (Residential- House, Two Family) district. The RH-2 District is intended to recognize, protect, conserve and enhance areas characterized by dwellings in the form of houses, usually with one, two or three units with separate entrances, and limited scale in terms of building width and height. Such areas tend to have similarity of building styles and predominantly contain large units suitable for family occupancy, considerable open space, and limited nonresidential uses.*

*Planning has determined that the proposed Verizon Wireless personal wireless service facility is designed in a streamlined manner, as proposed it will be located on a replacement pole in the exact location of an existing light pole which would not significantly detract from any of the defining characteristics of the RH-2 (Residential- House, Two Family) district.*

#### **General Plan Compliance:**

I. URBAN DESIGN ELEMENT

The Urban Design Element concerns the physical character and order of the city, and the relationship between people and their environment. The Urban Design Element is concerned both with development and with preservation. It is a concerted effort to recognize the positive attributes of the city, to enhance and conserve those attributes and to improve the living environment where it is less than satisfactory. The Plan is a definition of quality, a definition based upon human needs.

##### **OBJECTIVE 1**

Emphasis of the characteristic pattern which gives to the City and its neighborhoods an image, a sense of purpose, and a means of orientation.

###### **Policy 1.1**

Recognize and protect major views in the city, with particular attention to those of open space and water.

##### **OBJECTIVE 2**

Conservation of resources which provide a sense of nature, continuity with the past, and freedom from overcrowding.

###### **Policy 2.9**

Review proposals for the giving up of street areas in terms of all the public values that streets afford.

##### **OBJECTIVE 4**

Improvement of the neighborhood environment to increase personal safety, comfort, pride and opportunity.

Policy 4.14

Remove and obscure distracting and cluttering elements.

*The project has been designed to reduce, to the best extent possible, the blocking or other impairment of pleasing street views, and preserves an important characteristic of the unique setting and quality of the city.*

*The project has been designed to maintain, to the best extent possible, views from streets which can provide a means for orientation, and preserves the ability for an observer to perceive the City and its districts clearly.*

II. TRANSPORTATION ELEMENT

The Transportation Element concerns pedestrian movement in the city as to ensure the city is safe, convenient, and pleasant as pedestrian travel is an important component of the transportation system. The close-knit fabric of San Francisco, in junction with the dramatic hills and sweeping vistas, makes walking an ideal mode for exploring and moving about the city. The sidewalk is a shared space and provides a strong sense of the overall image of the city.

OBJECTIVE 23

Improve the city's pedestrian circulation system to provide for efficient, pleasant, and safe movement.

Policy 23.5

Establish and enforce a set of sidewalk zones that provides guidance for the location of all pedestrian and streetscape elements, maintains sufficient unobstructed width for passage of people, strollers and wheelchairs, consolidates raised elements in distinct areas to activate the pedestrian environment, and allows sufficient access to buildings, vehicles, and streetscape amenities.

*The project has been designed to maintain at least four (4) feet unobstructed width for pedestrian passage as outlined in the Pedestrian Network Streets and Design Guidelines of the Transportation Element.*

OBJECTIVE 24

Improve the ambience of the pedestrian environment.

Policy 24.4

Preserve pedestrian-oriented building frontages.

*The project has been designed as a minimally-visible facility to be attached to an existing light/utility pole extant in the public sidewalk. The facility components are designed as an*

*extension to the pole and equipment boxes, with requirements to be painted or shrouded to match the pole further reducing their visibility and any conflicts with the building frontages within the RH-2 District.*

**Conditions:**

1. Combiner shroud not to exceed 8" in depth and 14" in width.
2. Plant and maintain an appropriate street tree.
3. No exposed meter, meter pan or meter pedestal may be used.
4. Antenna, and all equipment (external conduit, radio relay units, blinders used to shroud bracket bolts [if needed], and mounting mechanisms); except signage, if used for screening, shall all be painted to match the pole and repainted as needed.
5. Cabling below radio relay units shall enter the pole with no more than a five-inch gap between bottom of each radio relay unit and the bottom of the corresponding entry hole on the pole. Conduit connection at pole entry points shall utilize the smallest fitting sizes available. Sealing compounds, if utilized, shall be tidy without excess bubbling and painted to match pole.
6. Remove raised equipment signage (including filling in manufacturer logo indentations on radio relay units/cabinets) and equipment decals that may be visible from sidewalk and dwellings, unless required by government regulation.
7. Utilize smallest RF warning signage allowed (4 x 6 inches); and place the warning sticker facing out toward street, at a location as close to antenna as is feasible. Sticker shall face away from street, when not facing a nearby window within 15 feet. Background color of sticker shall match the pole-mounting surface; and logo and text shall be white.
8. Stack equipment enclosures (not including antenna) as close as allowed by applicable regulation and manufacturer equipment standards.
9. Seams and bolts/screws at antenna and shroud assembly area shall be fabricated and installed in a manner so as to reduce their visibility (e.g. flush mounting screws) from sidewalk level.
10. Not utilize any visible flashing indicator lights or similar.
11. Not obstruct the view from, or the light into any adjacent residential window.
12. New below ground enclosure excavations (vault), if utilized, shall not damage or remove granite curbs. No significant gaps shall be created between vault enclosure lid and primary sidewalk material due to installation. Any other existing historic architectural elements within the public right-of-way shall be retained and protected during installation. No carrier logo or carrier name may be placed on the vault lid.
13. Non-essential radio relay unit elements (handle and legs) shall be removed.
14. The installer shall arrange to have Planning Department staff review the initial installation, in order to ensure compliance with the aforementioned conditions (notwithstanding inspections by pole owner and Department of Public Works).
15. Ensure Wi-Fi Access Points and associated wiring, utilized by the City's Department of Technology, are not damaged during installation (if present).
16. Should the installation vary from said conditions, the application shall be resubmitted to the Planning Department for further review and comment.



*DPW Personal Wireless Service Facility Referral  
Modus for Verizon*

*S.F. Planning Department  
1650 Baker Street*

Sincerely,



Digitally signed by Ashley Lindsay  
DN: cn=Ashley Lindsay, o=San  
Francisco Planning, ou=Current  
Planning,  
email=Ashley.Lindsay@sfgov.org,  
c=US  
Date: 2019.02.08 13:03:44 -08'00'

Ashley Lindsay  
Planner

## EXHIBIT 2

**Beach street lightpole  
WITHOUT Small cell**



**Same block, Beach street lightpole  
WITH Small cell**



# Exhibit 3

1. PAINT THE SOLAR SHIELD MOUNTING COMPONENTS & CABLE STRAP TO MATCH THE POLE
2. REMOVE THE CONNECTION SHROUD & MOUNT TO MARCH (P) POLE
3. NOTICE / CAUTION: SIGNAGE DISPLAY SHALL FACE OUT TO STREET AND BE INSTALLED AWAY FROM STREET. IF NO BUILDING WINDOW OR PRESSURE WITHIN 22 FEET FACING THE (P) POLE
4. ANTENNA WILL BE WITHIN A 10 1/2" DIAMETER THRU GLASS THROUGH IN A 40 3/4" DIAMETER C/P



**A-3**

# Exhibit 4

## **Modus-Verizon Cell Sites on Poles in Pacific Heights (2016-005607ENV)**

### **Project Description**

Each SFPUC/SMFTA pole facility would consist of one approx. 2-foot-tall, 7.5-inch-dia. antenna placed between 20 to 40 feet above grade, but generally around 30 feet above grade; one approx. 2-foot tall, 14" diameter shroud/skirt mounted just below antenna to conceal the antenna cabling and related equipment; two mRRU equipment boxes (approx. 16.5" H x 10" W x 6"D each) mounted on the side of the pole, generally between the heights of 10' and 15' on the pole; and conduit to be run inside of the existing pole. Each JPA pole facility would consist of one approx. 2-foot-tall, 7.5-inch-dia. antenna placed between 20 to 40 feet above grade, but generally around 30 feet above grade; two mRRU equipment boxes (approx. 16.5" H x 10" W x 6"D each) mounted on the side of the pole, generally between the heights of 10' and 15' on the pole; one PG&E meter box (±12" high by 10" wide by 6" deep) mounted just below the RRU equipment boxes; one disconnect switch (±9.5" high by 7.25" wide x 3.75" deep) mounted in between the PG&E meter and the bottom mRRU; and conduit to connect equipment and antenna on the side of the pole





# SAN FRANCISCO PLANNING DEPARTMENT

## CEQA Categorical Exemption Determination

### PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address		Block/Lot(s)	
Modus-Verizon Cell Sites on Poles in Pacific Heights		N/A	
Case No.	Permit No.	Plans Dated	
2016-005607ENV		2/17/16 (MTA/PUC); 10.13.15 (JPA)	
<input type="checkbox"/> Addition/ Alteration	<input type="checkbox"/> Demolition (requires HRER if over 45 years old)	<input type="checkbox"/> New Construction	<input type="checkbox"/> Project Modification (GO TO STEP 7)
Project description for Planning Department approval. Install Verizon personal wireless service facilities on existing SFPUC, SFMTA, and JPA utility poles in the public right-of-way in the Pacific Heights neighborhood. See attached project description and list of locations.			

### STEP 1: EXEMPTION CLASS

#### TO BE COMPLETED BY PROJECT PLANNER

**\*Note: If neither class applies, an Environmental Evaluation Application is required.\***

<input type="checkbox"/>	<b>Class 1 – Existing Facilities.</b> Interior and exterior alterations; additions under 10,000 sq. ft.
<input type="checkbox"/>	<b>Class 3 – New Construction/ Conversion of Small Structures.</b> Up to three (3) new single-family residences or six (6) dwelling units in one building; commercial/office structures; utility extensions.; ; change of use under 10,000 sq. ft. if principally permitted or with a CU. Change of use under 10,000 sq. ft. if principally permitted or with a CU.
<input checked="" type="checkbox"/>	<b>Class 3(d) – construction and location of limited numbers of new, small communications facilities.</b>

### STEP 2: CEQA IMPACTS

#### TO BE COMPLETED BY PROJECT PLANNER

**If any box is checked below, an Environmental Evaluation Application is required.**

<input type="checkbox"/>	<b>Air Quality:</b> Would the project add new sensitive receptors (specifically, schools, day care facilities, hospitals, residential dwellings, and senior-care facilities) within an Air Pollution Exposure Zone? Does the project have the potential to emit substantial pollutant concentrations (e.g., backup diesel generators, heavy industry, diesel trucks)? <i>Exceptions: do not check box if the applicant presents documentation of enrollment in the San Francisco Department of Public Health (DPH) Article 38 program and the project would not have the potential to emit substantial pollutant concentrations. (refer to EP_ArcMap &gt; CEQA Catex Determination Layers &gt; Air Pollutant Exposure Zone)</i>
<input type="checkbox"/>	<b>Hazardous Materials:</b> If the project site is located on the Maher map or is suspected of containing hazardous materials (based on a previous use such as gas station, auto repair, dry cleaners, or heavy manufacturing, or a site with underground storage tanks): Would the project involve 50 cubic yards or more of soil disturbance - or a change of use from industrial to residential? If yes, this box must be checked and the project applicant must submit an Environmental Application with a Phase I Environmental Site Assessment. <i>Exceptions: do not check box if the applicant presents documentation of enrollment in the San Francisco Department of Public Health (DPH) Maher program, a DPH waiver from the</i>

	<i> Maher program, or other documentation from Environmental Planning staff that hazardous material effects would be less than significant (refer to EP_ArcMap &gt; Maher layer).</i>
<input type="checkbox"/>	<b>Transportation:</b> Does the project create six (6) or more net new parking spaces or residential units? Does the project have the potential to adversely affect transit, pedestrian and/or bicycle safety (hazards) or the adequacy of nearby transit, pedestrian and/or bicycle facilities?
<input type="checkbox"/>	<b>Archeological Resources:</b> Would the project result in soil disturbance/modification greater than two (2) feet below grade in an archeological sensitive area or eight (8) feet in a non-archeological sensitive area? (refer to EP_ArcMap > CEQA Catex Determination Layers > Archeological Sensitive Area)
<input type="checkbox"/>	<b>Subdivision/Lot Line Adjustment:</b> Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? (refer to EP_ArcMap > CEQA Catex Determination Layers > Topography)
<input type="checkbox"/>	<b>Slope = or &gt; 20%:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Topography) If box is checked, a geotechnical report is required.
<input type="checkbox"/>	<b>Seismic: Landslide Zone:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones) If box is checked, a geotechnical report is required.
<input type="checkbox"/>	<b>Seismic: Liquefaction Zone:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones) If box is checked, a geotechnical report will likely be required.
<b>If no boxes are checked above, GO TO STEP 3. If one or more boxes are checked above, an <u>Environmental Evaluation Application</u> is required, unless reviewed by an Environmental Planner.</b>	
<input checked="" type="checkbox"/>	<b>Project can proceed with categorical exemption review. The project does not trigger any of the CEQA impacts listed above.</b>
<b>Comments and Planner Signature (optional):</b>	

**STEP 3: PROPERTY STATUS – HISTORIC RESOURCE  
TO BE COMPLETED BY PROJECT PLANNER**

<b>PROPERTY IS ONE OF THE FOLLOWING: (refer to Parcel Information Map)</b>	
<input checked="" type="checkbox"/>	<b>Category A: Known Historical Resource. GO TO STEP 5.</b>
<input checked="" type="checkbox"/>	<b>Category B: Potential Historical Resource (over 45 years of age). GO TO STEP 4.</b>
<input checked="" type="checkbox"/>	<b>Category C: Not a Historical Resource or Not Age Eligible (under 45 years of age). GO TO STEP 6.</b>

**STEP 4: PROPOSED WORK CHECKLIST**  
TO BE COMPLETED BY PROJECT PLANNER

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. Change of use and new construction. Tenant improvements not included.
<input type="checkbox"/>	2. Regular maintenance or repair to correct or repair deterioration, decay, or damage to building.
<input type="checkbox"/>	3. Window replacement that meets the Department's <i>Window Replacement Standards</i> . Does not include storefront window alterations.
<input type="checkbox"/>	4. Garage work. A new opening that meets the <i>Guidelines for Adding Garages and Curb Cuts</i> , and/or replacement of a garage door in an existing opening that meets the <i>Residential Design Guidelines</i> .
<input type="checkbox"/>	5. Deck, terrace construction, or fences not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	6. Mechanical equipment installation that is not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	7. Dormer installation that meets the requirements for exemption from public notification under <i>Zoning Administrator Bulletin No. 3: Dormer Windows</i> .
<input type="checkbox"/>	8. Addition(s) that are not visible from any immediately adjacent public right-of-way for 150 feet in each direction; does not extend vertically beyond the floor level of the top story of the structure or is only a single story in height; does not have a footprint that is more than 50% larger than that of the original building; and does not cause the removal of architectural significant roofing features.
<b>Note: Project Planner must check box below before proceeding.</b>	
<input type="checkbox"/>	Project is not listed. <b>GO TO STEP 5.</b>
<input checked="" type="checkbox"/>	Project does not conform to the scopes of work. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project involves four or more work descriptions. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project involves less than four work descriptions. <b>GO TO STEP 6.</b>

**STEP 5: CEQA IMPACTS – ADVANCED HISTORICAL REVIEW**  
TO BE COMPLETED BY PRESERVATION PLANNER

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. Project involves a known historical resource (CEQA Category A) as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
<input type="checkbox"/>	2. Interior alterations to publicly accessible spaces.
<input type="checkbox"/>	3. Window replacement of original/historic windows that are not "in-kind" but are consistent with existing historic character.
<input type="checkbox"/>	4. Façade/storefront alterations that do not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	5. Raising the building in a manner that does not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	6. Restoration based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.
<input type="checkbox"/>	7. Addition(s), including mechanical equipment that are minimally visible from a public right-of-way and meet the <i>Secretary of the Interior's Standards for Rehabilitation</i> .
<input checked="" type="checkbox"/>	8. Other work consistent with the <i>Secretary of the Interior Standards for the Treatment of Historic Properties</i> (specify or add comments):

<input checked="" type="checkbox"/>	<p>9. Other work that would not materially impair a historic district (specify or add comments):</p> <p>(Requires approval by Senior Preservation Planner/Preservation Coordinator) <u>Jim Kim</u></p>
<input type="checkbox"/>	<p>10. Reclassification of property status. (Requires approval by Senior Preservation Planner/Preservation Coordinator)</p> <p><input type="checkbox"/> Reclassify to Category A      <input type="checkbox"/> Reclassify to Category C</p> <p>a. Per HRER dated: _____ (attach HRER)</p> <p>b. Other (specify): _____</p>
<p><b>Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST check one box below.</b></p>	
<input type="checkbox"/>	<p>Further environmental review required. Based on the information provided, the project requires an <i>Environmental Evaluation Application</i> to be submitted. <b>GO TO STEP 6.</b></p>
<input checked="" type="checkbox"/>	<p>Project can proceed with categorical exemption review. The project has been reviewed by the Preservation Planner and can proceed with categorical exemption review. <b>GO TO STEP 6.</b></p>
<p><b>Comments (optional):</b></p> <p>All proposed work would be undertaken within the public right-of-way on existing steel or wood poles and would not effect poles that are decorative or historic in nature. The proposed equipment is designed to be slim in profile and to avoid large bundles of visible cabling, equipment decals, lighting, or mounting systems so that buildings and streetscapes within known or potential historic districts, and/or adjacent historic buildings, would not be materially or visually impaired. Proposed work would not physically alter any historic features or materials that characterize known or potential historic resources where these installations occur.</p>	
<p>Preservation Planner Signature: <u>Jim Kim</u></p>	

**STEP 6: CATEGORICAL EXEMPTION DETERMINATION  
TO BE COMPLETED BY PROJECT PLANNER**

<input type="checkbox"/>	<p>Further environmental review required. Proposed project does not meet scopes of work in either (check all that apply):</p> <p><input type="checkbox"/> Step 2 – CEQA Impacts</p> <p><input type="checkbox"/> Step 5 – Advanced Historical Review</p> <p><b>STOP! Must file an <i>Environmental Evaluation Application</i>.</b></p>			
<input checked="" type="checkbox"/>	<p><b>No further environmental review is required. The project is categorically exempt under CEQA.</b></p> <table border="1"> <tr> <td> <p><b>Planner Name:</b></p> <p><b>Project Approval Action:</b></p> <p><b>DPW Final Approvals</b></p> <p>If Discretionary Review before the Planning Commission is requested, the Discretionary Review hearing is the Approval Action for the project.</p> </td> <td> <p><b>Signature:</b></p> <p><b>Jean Poling</b></p> <p>Digitally signed by Jean Poling DN: dc=org, dc=sfgov, dc=cityplanning, ou=CityPlanning, ou=Environmental Planning, cn=Jean Poling, email=jeanle.poling@sfgov.org Date: 2016.05.17 13:29:41 -0700</p> </td> </tr> </table> <p>Once signed or stamped and dated, this document constitutes a categorical exemption pursuant to CEQA Guidelines and Chapter 31 of the Administrative Code.</p> <p>In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the first approval action.</p>		<p><b>Planner Name:</b></p> <p><b>Project Approval Action:</b></p> <p><b>DPW Final Approvals</b></p> <p>If Discretionary Review before the Planning Commission is requested, the Discretionary Review hearing is the Approval Action for the project.</p>	<p><b>Signature:</b></p> <p><b>Jean Poling</b></p> <p>Digitally signed by Jean Poling DN: dc=org, dc=sfgov, dc=cityplanning, ou=CityPlanning, ou=Environmental Planning, cn=Jean Poling, email=jeanle.poling@sfgov.org Date: 2016.05.17 13:29:41 -0700</p>
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## **Modus-Verizon Cell Sites on Poles in Pacific Heights (2016-005607ENV)**

### **Project Description**

Each SFPUC/SMFTA pole facility would consist of one approx. 2-foot-tall, 7.5-inch-dia. antenna placed between 20 to 40 feet above grade, but generally around 30 feet above grade; one approx. 2-foot tall, 14" diameter shroud/skirt mounted just below antenna to conceal the antenna cabling and related equipment; two mRRU equipment boxes (approx. 16.5" H x 10" W x 6"D each) mounted on the side of the pole, generally between the heights of 10' and 15' on the pole; and conduit to be run inside of the existing pole. Each JPA pole facility would consist of one approx. 2-foot-tall, 7.5-inch-dia. antenna placed between 20 to 40 feet above grade, but generally around 30 feet above grade; two mRRU equipment boxes (approx. 16.5" H x 10" W x 6"D each) mounted on the side of the pole, generally between the heights of 10' and 15' on the pole; one PG&E meter box ( $\pm 12$ " high by 10" wide by 6" deep) mounted just below the RRU equipment boxes; one disconnect switch ( $\pm 9.5$ " high by 7.25" wide x 3.75" deep) mounted in between the PG&E meter and the bottom mRRU; and conduit to connect equipment and antenna on the side of the pole

Verizon-Modus Sites in Pacific Heights (2016-005607ENV)

VERIZON SITE ID	POLE OWNER	POLE TYPE	ADDRESS THAT POLE IS IN FRONT OF	BLOCK/LOT THAT POLE IS IN FRONT OF	ARTICLE 10/11 DISTRICT?
SF LM PH2 SC 69	SFPUC	STEEL	425 7TH ST	3759/042	NO
SF_PAC001	JPA	WOODEN	100 5TH AVE.	1364/036	NO
SF_PAC002	SFPUC	STEEL	3991 WASHINGTON ST	0991/045	NO
SF_PAC003	MTA	STEEL	3 COMMONWEALTH AVE	1038/001	NO
SF_PAC004	JPA	WOODEN	345 ARGUELLO BLVD.	1432/049	NO
SF_PAC008	SFPUC	STEEL	290 MAPLE ST	0993/014	NO
SF_PAC009	SFPUC	STEEL	3839 WASHINGTON ST	0992/034	NO
SF_PAC010	MTA	STEEL	3979 SACRAMENTO ST	1015/034	NO
SF_PAC011	SFPUC	STEEL	3695 JACKSON ST	0988/017	NO
SF_PAC012	SFPUC	STEEL	3590 WASHINGTON ST	0986/023	NO
SF_PAC014	SFPUC	STEEL	3400 WASHINGTON ST	0985/004	NO
SF_PAC015	MTA	STEEL	3333 CALIFORNIA ST	1032/003	NO
SF_PAC018	MTA	STEEL	3333 CALIFORNIA ST	1032/003	NO
SF_PAC019	MTA	STEEL	3201 JACKSON ST.	0984/001	NO
SF_PAC020	SFPUC	STEEL	3228 CLAY STREET	0998/050	NO
SF_PAC022	JPA	WOODEN	2127 BRODERICK ST	1000/001	NO
SF_PAC023	MTA	STEEL	3150 CALIFORNIA ST.	1022/013	NO
SF_PAC024	MTA	STEEL	357 PRESIDIO AVE.	1008/005	NO
SF_PAC025	SFPUC	STEEL	3000 SACRAMENTO ST	1005/003	NO
SF_PAC026	JPA	WOODEN	2500 SUTTER ST	1053/005	NO
SF_PAC027	JPA	WOODEN	1650 BAKER ST	1048/028	NO
SF_PAC028	SFPUC	STEEL	2426 BUSH ST	0657/006	NO
SF_PAC032	JPA	WOODEN	2111 BAKER ST	0982/097	NO
SF_PAC035	MTA	STEEL	2460 UNION ST	0536/014	NO
SF_PAC037	SFPUC	STEEL	2930 CLAY ST	1001/009	NO
SF_PAC040	SFPUC	STEEL	2725 CALIFORNIA ST	1027/022	NO
SF_PAC041	JPA	WOODEN	2501 CALIFORNIA ST	0655/001	NO
SF_PAC044	MTA	STEEL	2100 FILLMORE ST.	0636/018A	NO
SF_PAC045	MTA	STEEL	2101 WASHINGTON ST.	0625/003	NO
SF_PAC053	SFPUC	STEEL	1910 LYON ST	1047/024	NO



Verizon-Modus Sites in Pacific Heights (2016-005607ENV)

VERIZON SITE ID	POLE OWNER	POLE TYPE	ADDRESS THAT POLE IS IN FRONT OF	BLOCK/LOT THAT POLE IS IN FRONT OF	ARTICLE 10/11 DISTRICT?
SF_PAC054	MTA	STEEL	2801 JACKSON ST.	0980/056	NO
SF_PAC056	MTA	STEEL	2101 WEBSTER ST	0629/038	NO
SF_PAC057	MTA	STEEL	2919 CALIFORNIA ST.	1029/030	NO
SF_PAC058	MTA	STEEL	3519 CALIFORNIA ST	1035/001	NO
SF_PAC059	SFPUC	STEEL	3501 CLAY ST	1010/001	NO
SF_PAC064	JPA	WOODEN	2501 JACKSON ST	0607/001	NO
SF_PAC067	SFPUC	STEEL	2107 LYON ST	0983/004	NO

# Exhibit 5

## ALTERNATIVE DESIGN ANALYSIS

To be referenced in conjunction with DPW online application, construction drawings, and included attachments

**SITE ADDRESS** 1650 Baker St.  
**VERIZON SITE NAME** Pac Heights 027  
**DPW SUBMIT DATE** 10/8/2018

**DPW REFERENCE NUMBER** 16WR-0123  
**VERIZON LOCATION CODE** 414918  
**PLANNING RECEIVED DATE** NA

### CURRENT STATUS

DPW approval pending

PROPOSED DESIGN	DESCRIPTION	REFERENCE
ANTENNA TYPE	48"x14.6" Amphenol canister antenna	
ANTENNA LOCATION	Atop 39'-3" existing utility pole	
OTHER EQUIPMENT	(2) RRU's, utility disconnect switch, electrical meter, FCC signage, ground rods, buss bar, conduits for power, telco, and coax. Install handhole at ground level. All equipment to be painted to match the pole.	
POLE TYPE	PG&E	
EXISTING POLE HEIGHT	39'-3"	
PROPOSED TOTAL HEIGHT	51'-3"	
OTHER		

### PROPOSED DESIGN NOTES

The smallest and least intrusive available equipment has been selected for use with this installation.

# Exhibit 6

## Current pole



## To show height after installation



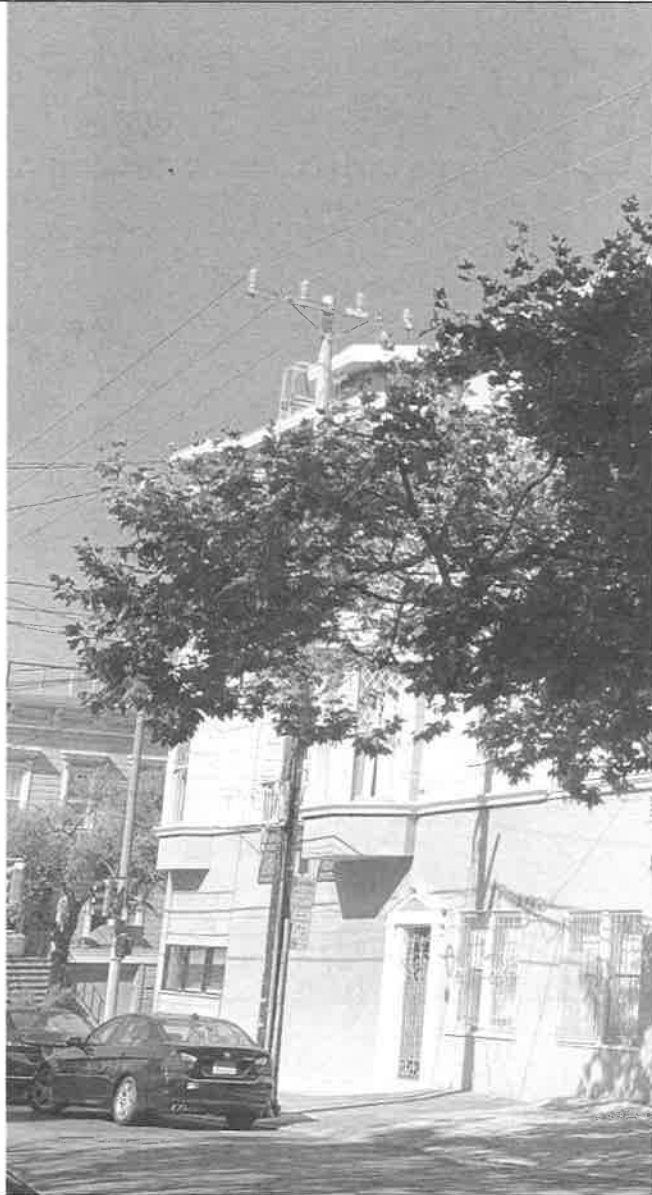
**Current pole**



**To show height after  
installation**



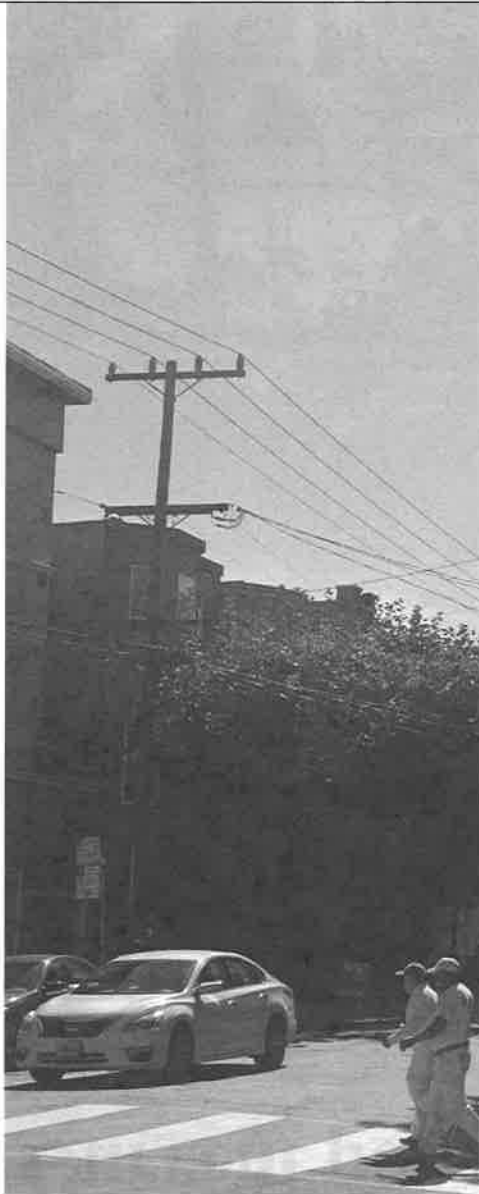
## Current pole



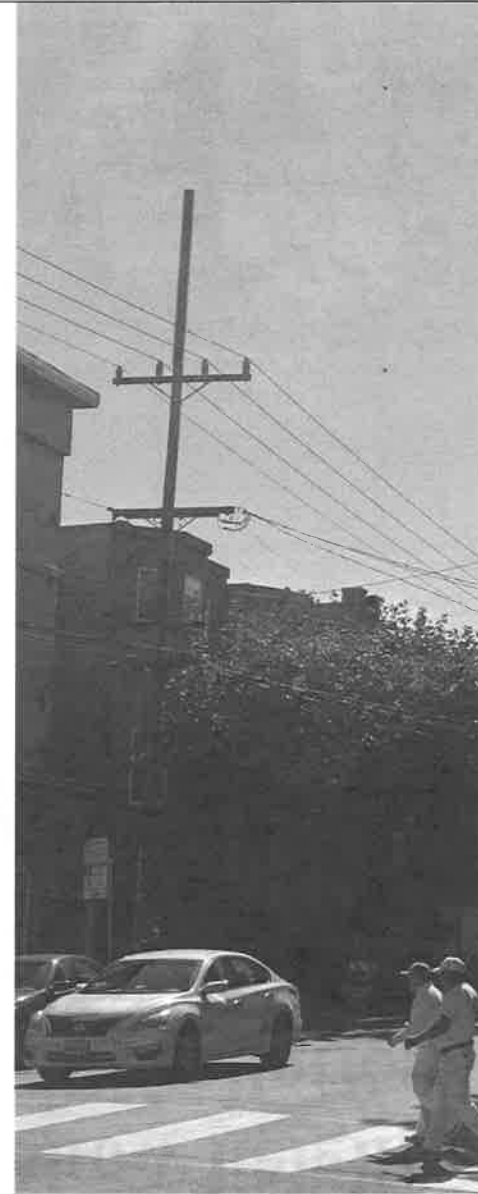
## To show height after installation



## Current pole



## To show height after installation

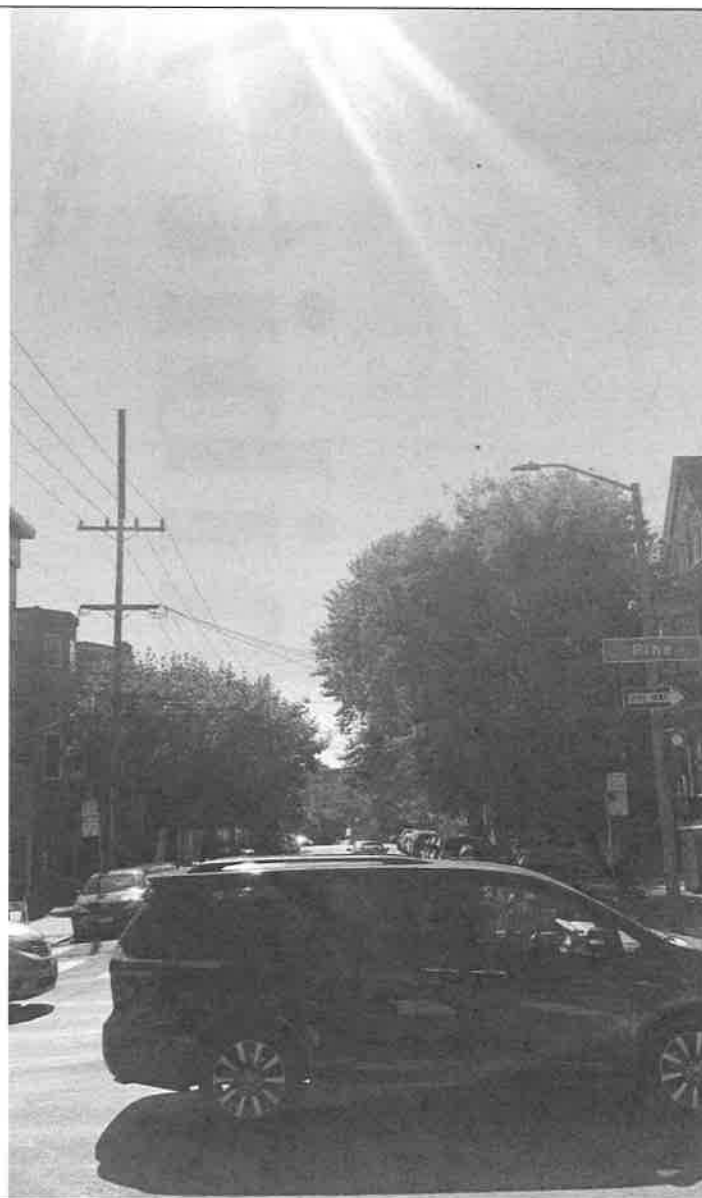




## Current pole



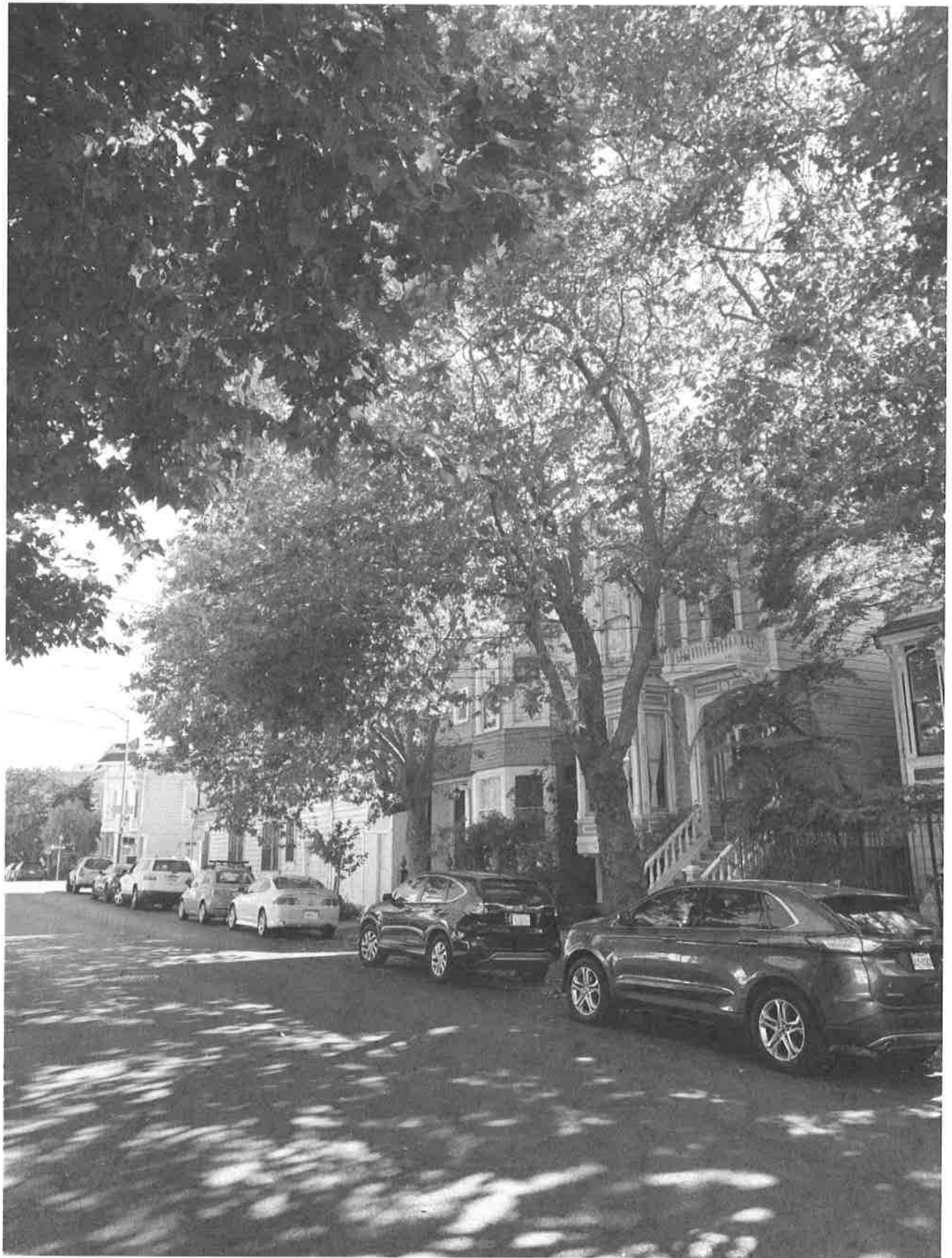
## To show height after installation



# Exhibit 7

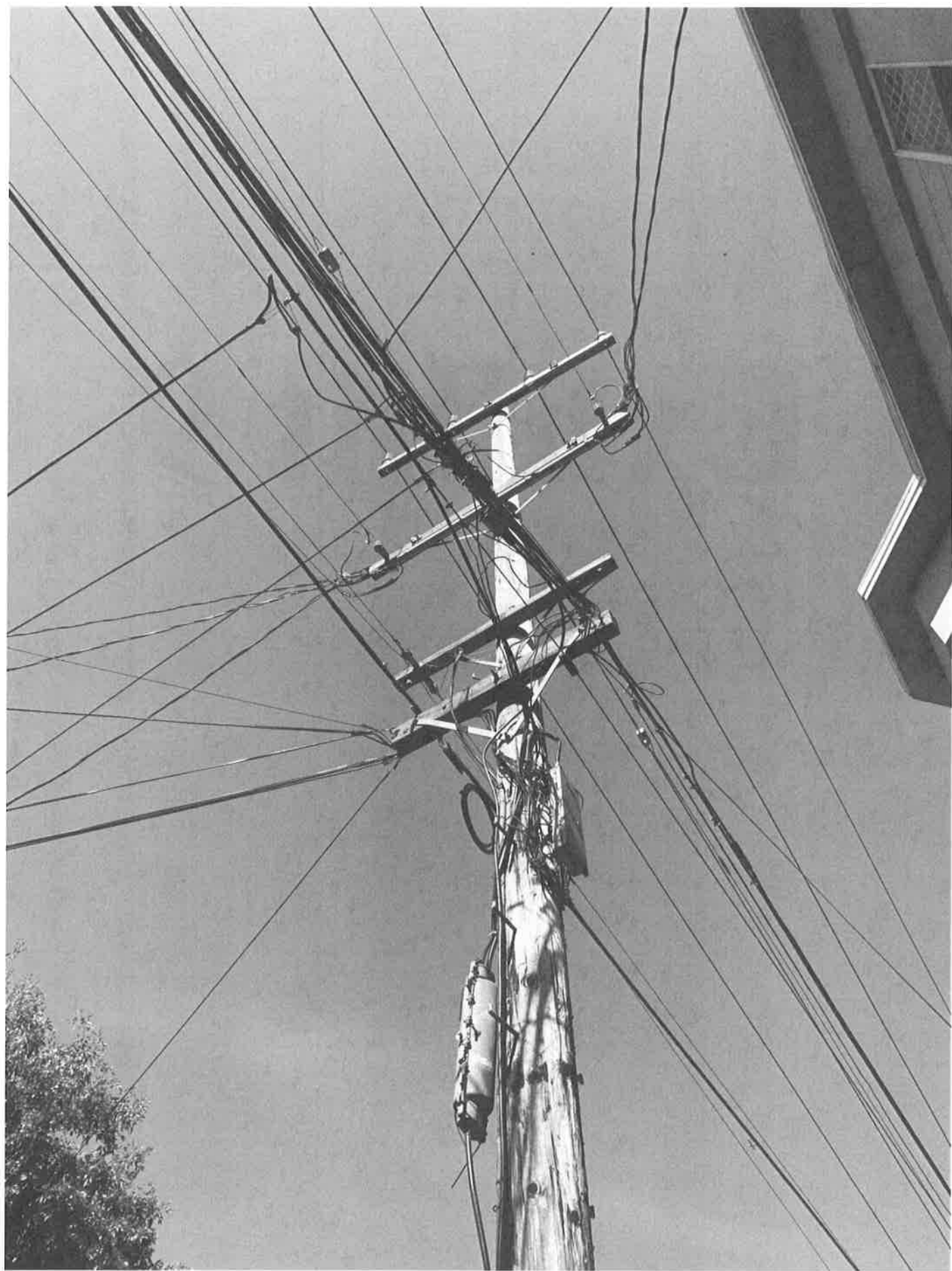






# Exhibit 8





# Exhibit 9



**Verizon Wireless • Proposed Small Cell "SF PAC027"**  
**1650 Baker Street • San Francisco, California**

**Conclusion**

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by Verizon Wireless at 1867 39th Avenue in San Francisco, 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.

November 14, 2017



*Andrea L. Bright*  
Andrea L. Bright, P.E.

707/996-5200



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

# Exhibit 10

**From:** Agatha Kehayas <akehayas@modus-corp.com>  
**Sent:** Tuesday, August 7, 2018 8:46:13 AM  
**To:** Callewaert, Jennifer (DPH); Duque, Arthur (DPH)  
**Subject:** Re: DPW Permits - DPH Approval Inquiry  
Hi Jennifer,  
Thank you for informing me.  
Best,

Agatha Kehayas, Project Associate | Modus  
m: 914.573.3016 | [Modus](#) | [LinkedIn](#)

---

**From:** Callewaert, Jennifer (DPH) <jennifer.callewaert@sfdph.org>  
**Sent:** Monday, August 6, 2018 8:56:34 PM  
**To:** Duque, Arthur (DPH); Agatha Kehayas  
**Subject:** Re: DPW Permits - DPH Approval Inquiry  
Hi Agatha,

Arthur is out of the office for the next 2 week, returning on August 20, 2018 and was away all of last week. I will be filling in for him during his absence but want to let you know that there will be a delay. Arthur is the only person in the radio-frequency program and I supervise this program and 4 other programs. Thank you for your patience and let me know if you have any questions.

Sincerely,

**Jen Callewaert MS, REHS**

Principal Environmental Health Inspector  
Radiation, Tobacco, Emergency Response, Article 38, Massage and Body Art and Piercing Programs  
Environmental Health Branch  
Population Health Division  
San Francisco Department of Public Health  
1390 Market Street, Suite 210  
415-252-3971 (desk)  
jennifer.callewaert@sfdph.org  
415-252-3842 (fax)  
<https://www.sfdph.org/dph/REH/>

---

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---

**From:** Duque, Arthur (DPH)  
**Sent:** Wednesday, August 1, 2018 10:08:23 PM  
**To:** Callewaert, Jennifer (DPH)  
**Subject:** Fw: DPW Permits - DPH Approval Inquiry

Arthur-Sam Duque, REHS  
Environmental Health Protection, Equity and Sustainability



Search

Reactivate  
Premium for Free**\$500+/hr Advisory Roles - Many companies are seeking paid Business Advisors. Are you interested?** Ad ...**Arthur Duque** · 3rdSenior Environmental Health Inspector at San Francisco Dept  
of Public Health -Radio frequency program

San Francisco, California · 40 connections · Contact info

Connect

More...

San Francisco Dept of Public  
Health  
California State University  
Fresno

## Experience

**Senior Environmental Health Inspector**

San Francisco Dept of Public Health

Jan 2011 – Present · 8 yrs 10 mos

1390 Market St, Suite 210 San Francisco, CA 94102

## Education

**California State University Fresno**Environmental Occupational Health and Safety, Environmental Health  
2002 – 2007

## Promoted

**PH7 HedgeFund  
· Consultants**Help on how to start or  
grow your fund. Interim  
CFO COO CCO, Fund  
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**\$500/hr Rem  
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Francisco Planning Department**Amanda Higgins** · 3rdVice President, Communications  
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**Seán Duggan's Fire ar  
Photo Composite: Sta  
Finish**

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Messaging

# Exhibit 11

**From:** Duque, Arthur (DPH)  
**To:** Palacios, Leoncio (DPW)  
**Cc:** Callewaert, Jennifer (DPH)  
**Subject:** DPH and DPW meeting for post report reviews  
**Date:** Thursday, March 21, 2019 9:26:42 AM

---

Hi Leo,

I would like to see if we could meet sometime soon in regards to the post-test reviews by the carriers. DPH has not been getting any of the post-test reports since I've been in this program. After speaking to the carriers and you I've found out that:

- Some carriers upload these post-test reports individually into the DPW portal.
- Some carriers upload multiple documents which include the post-test reports.
- There is no type of notification process to inform DPH that these sites have been uploaded onto the DPW portal. (E.g. DPW e-mail informing DPH that a review is needed)

Is there a way in DPW's system to inform DPH that a post-test review report for an active site has been uploaded and needs review by DPH? I would like to streamline this process so that DPH knows when these sites "go active" and if they are in compliance with the FCC Public Standard. I have availability the next couple of weeks to discuss and meet. Please let me know what works for your schedule. Thank you Leo.

Sincerely,

Arthur-Sam Duque, REHS  
Senior Environmental Health Inspector  
Radio Frequency Program  
Environmental Health Protection, Equity and Sustainability  
Population Health Division  
San Francisco Department of Public Health  
1390 Market Street, Suite 210  
San Francisco, California 94102  
Telephone: (415) 252-3966  
Fax: (415) 252-3842  
E-Mail: [Arthur.Duque@sfdph.org](mailto:Arthur.Duque@sfdph.org)

**A review of the pre-installation RF/EME reports can take up to 10 working days.**

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From: **San Francisco Public Records** sanfrancisco@public-records-requests.com  
Subject: [External Message Added] San Francisco public records request #19-506  
Date: March 6, 2019 at 3:18 PM  
To: barbara@bkbmail.net



— Attach a non-image file and/or reply ABOVE THIS LINE with a message, and it will be sent to staff on this request. —

## San Francisco Public Records

**Hi there**

A message was sent to you regarding record request #19-506:

Ms. Blumenthal,

Please note: A request that a department create a response to a request for information or answer a series of questions is not a public records request, and neither the Public Records Act nor the Sunshine Ordinance requires a department to reply to a series of written interrogatories.

In the future, if you have questions about the wireless program, you should contact Leo Palacios, with whom you have previously corresponded.

I conferred with Leo, who offered the following explanations in response to your questions:

"To be reviewed for initial review" means the department will at a future time review the document.

1. No, you are correct.
2. There is no spreadsheet.

3. Permits marked approved have been OK'd for installation but they aren't necessarily installed. The wireless section does not track when the actual installation takes place.

4. 1,284 referred to the number of permits approved as of the date of my message. See No. 3 for clarification between approved and installed.

5. No, you are correct.

6. No, you are correct.

Regards,

David A. Steinberg  
Custodian of Records  
San Francisco Public Works

[View Request 19-506](#)

<http://sanfrancisco.nextrequest.com/requests/19-506>



**POWERED BY NEXTREQUEST**

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Questions about your request? Reply to this email or sign in to contact staff at San Francisco.

Technical support. See our [help page](#).



From: Barbara Blumenfeld <barbara@bkbmail.net>  
Subject: Re: [External Message Added] San Francisco public records request #19-506  
Date: March 6, 2019 at 2:12:45 PM PST  
To: <sanfrancisco\_19-506-requesternotes@inbound.nextrequest.com>

Dear David,

Thank you for your clarification. Could you please further explain what "to be reviewed for initial review" means?

Also, to clarify, based on your responses to date, I am assuming the following:

1. DPW does not keep a separate list of all installed PWSFs or otherwise track in a document what happens after a PWSF is installed (ie the installed PWSF's RF emissions).
2. There is no spreadsheet or other document with post-installation data, including a spreadsheet or other document with any information concerning post-installation compliance with the PHCS.
3. For anyone at DPW to determine where PWSFs have been installed, they must look at the spreadsheet entitled "all wireless applications" and look for the word "approved." Anything that says "approved" has a PWSF that is currently installed.
4. There are 1,284 currently installed and operating PWSFs in SF.
5. There is no information kept about the cumulative impact of the currently installed and operating PWSFs.
6. There are no documents that compare pre-installation with postinstallation RF reports.

Could you please let me know if any of these assumptions are mistaken?

Thank you.

Barbara Blumenfeld  
2298 Pacific Avenue Apt. 3, San Francisco, CA 94115  
Home (415) 921-1419  
Fax (415) 345-1419

On Feb 28, 2019, at 4:43 PM, San Francisco Public Records <sanfrancisco@public-records-requests.com> wrote:

-- Attach a non-image file and/or reply ABOVE THIS LINE with a message, and it will be sent to staff on this request. --

# Exhibit 12



City and County of San Francisco  
**DEPARTMENT OF PUBLIC HEALTH**  
**ENVIRONMENTAL HEALTH SECTION**

Edwin Lee, Mayor  
Barbara A. Garcia, MPA, Director of Health

Stephanie Cushing, MSPH, CHMM, REHS, Director of EH

December 20, 2017

**TO:** Gene Chan, Dept. of Public Works, Bureau of Street Use and Mapping  
**FROM:** Arthur Duque, Dept. Of Public Health, Environmental Health Services AD  
**RE:** Verizon Wireless Pole Mounted Antenna, Amphenol Model CUUT070X12F

Location:  
1650 Baker St.

DPW Application:  
16WR-0123

Node#  
SFPAC027

As requested, I have reviewed the documentation that you and Verizon Wireless have provided to me regarding the proposed installation of an Amphenol Model CUUT070X12F, on a utility pole or similar structures located at the above listed location in the City and County of San Francisco.

This review includes November 14, 2017 radio frequency energy report prepared by Hammett & Edison for this site. The report states that one Amphenol Model CUUT070X12F, tri-directional antenna will be mounted on a utility pole near the location listed above. The antenna will be about 48.5 feet above the ground level pointing in the 200° and 320° direction which is north and south along Baker St. Due to the mounting location, the antenna would not be accessible to the general public.

The maximum effective radiated power from this antenna is estimated to be 3580 watts.

The maximum calculated exposure level at the ground level will not exceed 0.0033 mW/cm<sup>2</sup>, which is 0.33% of the FCC public exposure standard. The three dimensional perimeter of the radio frequency (RF) levels equal to the public exposure limit is calculated to extend a maximum of 36 feet from the face of the antenna and does not reach any publicly accessible areas. The maximum calculated exposure level at any nearby building is 0.53% of the FCC public exposure limit for the building adjacent, 55 feet away.

Based on the information provided in the Hammett & Edison report, I would agree that this Verizon Wireless Amphenol antenna, utility pole installation would be in compliance with the FCC standards and would not produce radio frequency energy exceeding the FCC public exposure limits.

In addition, a noise evaluation was done on the combination of equipment assumed to be installed at this location which was prepared by EBI Consulting, and was dated October 11, 2017. This evaluation found that none of the equipment being installed will produce noise. As such, the installation of the equipment would be in compliance with the noise standards as outlined in the DPW Code, Article 25.

**Approval Conditions:**

- Ensure that any equipment associated with the pole installation of this antenna does not produce a noise in excess of 45 dBA as measured at three (3) feet from the nearest residential building façade.
- Ensure that there are no publicly occupied areas within thirty-six (36) feet from the face of the antenna.
- This approval is for the antenna directions listed in the report. If an additional direction is activated a new RF report will be required.
- Once the antenna is installed, Verizon Wireless must take RF power density measurements with the antenna operating at full power to verify the level reported in the Ebi Consulting report and to ensure that the FCC public exposure level is not exceeded in any publicly accessible area. This measurement must be taken again at the time of the permit renewal.
- Verizon Wireless should be aware that the general public may have concerns about the antenna and potential RF source near their dwellings. Verizon Wireless should have in place a procedure for taking RF power density levels in nearby dwellings when requested by the members of the general public.
- In accordance with the San Francisco Public Works Code, Art. 25, Sec. 1527 (a)(2)(C) Verizon Wireless is responsible for paying a fee of \$210.00 to the San Francisco Department of Public Health for this review.

Please note that this approval and any conditions apply only to the equipment and installation as described. If any changes in the equipment or any increase in the effective radiated power described above are made, a new review by the Department of Public Health must be conducted.

# Exhibit 13

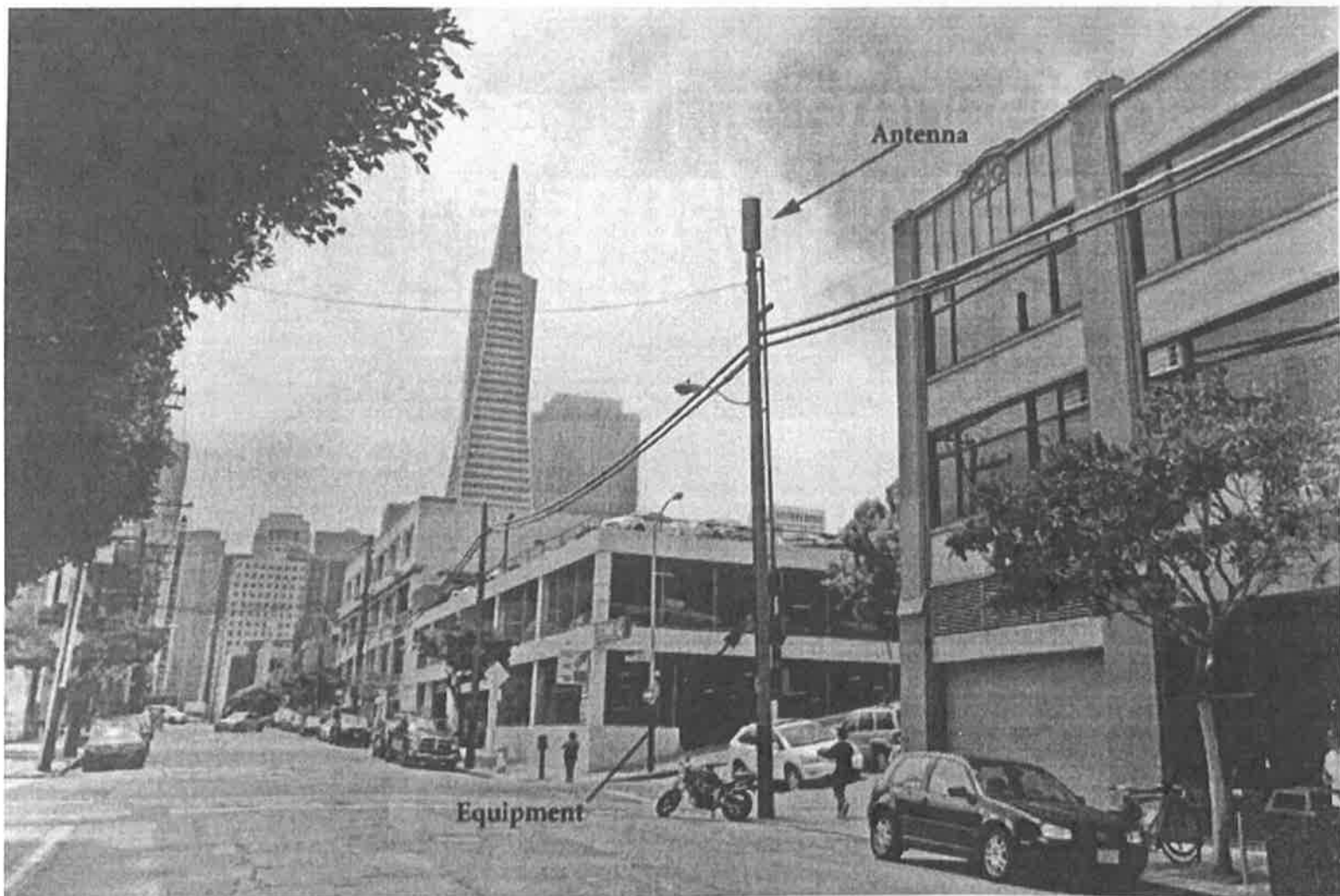


SAN FRANCISCO  
PLANNING  
DEPARTMENT

# Design Preferences for Personal Wireless Service Facilities

FOR DISTRIBUTED ANTENNA SYSTEMS, "DAS"  
OR SMALL CELLS ON WOODEN UTILITY POLES &  
WOODEN STREET LIGHT POLES

August 2016



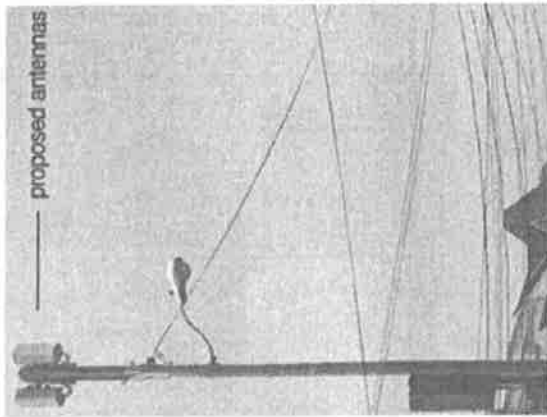
## 5. ANTENNAS

Consider using antenna designs that provide robust coverage without appearing more distracting than necessary. Avoid placements that may impair light, air, or views from adjacent windows.

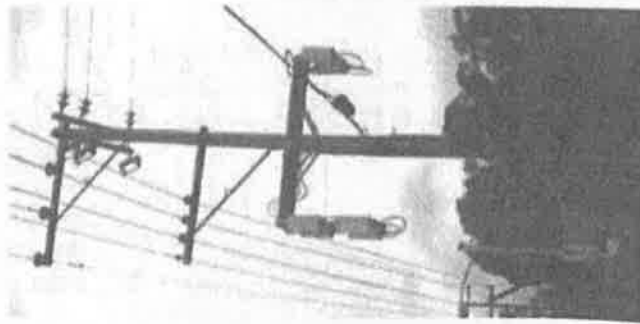
Consider using antenna models that include a GPS antenna (if needed) integrated into the same cylindrical shape on top of the main antenna.

Consider using antennas with electronic tilt mechanisms that could reduce the need for bulky mechanical tilt brackets.

Utilize single element side-arms instead of dual parallel side-arms. Evaluate opportunities to utilize cylindrical antennas in lieu of panel antennas. If panel antennas are utilized, consider the use of mini shrouds below each panel antenna to reduce the visibility of the cable loops. While this will make the antenna look slightly longer, it reduces the noticeability of various elements, such as multiple cable loops, that can draw more attention than the antenna itself. Avoid the use of large bracket systems for panel antennas, which create a significant offset from the pole.

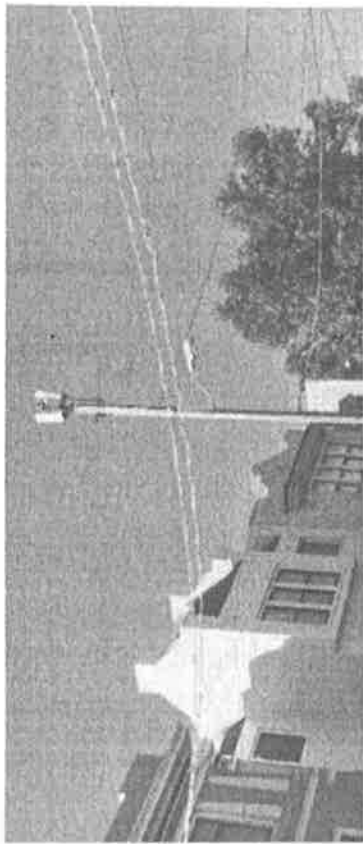
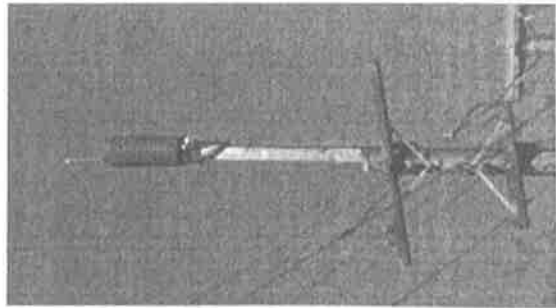


ABOVE: Non-recommended (triple panel) antenna design that is bulky/obtrusive, and rises well into view.



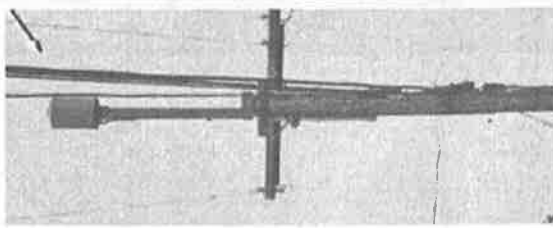
LEFT: Disfavoured use of multiple panel antennas with cables loops dangling below each panel

RIGHT: Disfavoured GPS antenna (atop small stick) mounted in a manner that is highly visible above the top of the transmitting antenna. The transmitting antenna is well placed (preferred) and sized, though painted too dark, and therefore more noticeable.



TOP: Disfavoured use of multiple panel antennas with wide offset mechanical tilt brackets (evaluate electronic tilt alternatives) and loose cabling

LEFT: Disfavoured extension arm. Too narrow and noticeable due to shape change and height increase.



RIGHT: Preferred top-mounted antenna design with shroud cap below the actual antenna (below seam line); and without a significant pole height increase.

### ANTENNA PLACEMENT

Both top-mounted and side-mounted antennas offer various advantages and challenges from both an RF and visibility perspective, requiring a case-by-case review. For example, a top-mounted antenna with a very tall extension arm may look out of character in a low-lying residential neighborhood, but a top-mounted antenna that is relatively narrow and nearly flush with the top of the pole may offer a very minimal profile, which is preferred.

An antenna may not obstruct the view from, or light into, any adjacent residential window.

For side-mounted antennas, consider using an arm that features langes/channels so that cabling and passive RF gear can be better hidden from view. For top-mounted antennas, consider using a shroud around the base of the antenna, especially for antenna models with four or more cabling ports, as cable systems without a shroud at the base of the antenna, can appear cluttered. If a shroud cannot be used, utilize velcro ties (or similar) to neatly arrange cabling (and note such on the site completion checklist on the cover sheet of plans).

Pole top extension arms should not appear offset from the pole, making the antenna more noticeable. Utilize an arm that is as wide as the top of the pole and tapers toward the antenna.





**TOP:** Disfavored use of multiple panel antennas with wide offset mechanical tilt brackets (evaluate electronic tilt alternatives) and loose cabling

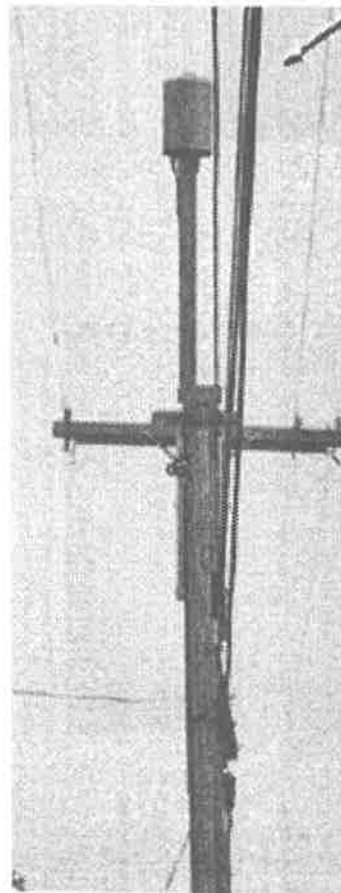
#### ANTENNA PLACEMENT

Both top-mounted and side mounted antennas offer various advantages and challenges from both an RF and visibility perspective; requiring a case by case review. For example, a top-mount antenna with a very tall extension arm may look out of character in a low lying residential neighborhood, but a top mount antenna that is relatively narrow and nearly flush with the top of the pole may offer a very minimal profile, which is preferred.

An antenna may not obstruct the view from, or light into, any adjacent residential window.

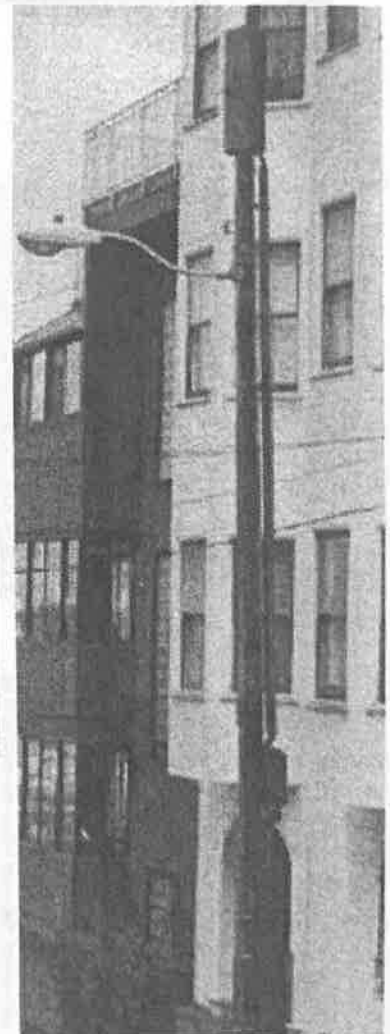
For side-mounted antennas, consider using an arm that features flanges/channels so that cabling and passive RF gear can be better hidden from view. For top-mounted antennas, consider using a shroud around the base of the antenna, especially for antenna models with four or more cabling ports, as cable systems without a shroud at the base of the antenna, can appear cluttered. If a shroud cannot be used, utilize velcro ties (or similar) to neatly arrange cabling (and note such on the site completion checklist on the cover sheet of plans).

Pole top extension arms should not appear offset from the pole, making the antenna more noticeable. Utilize an arm that is as wide as the top of the pole and tapers toward the antenna.



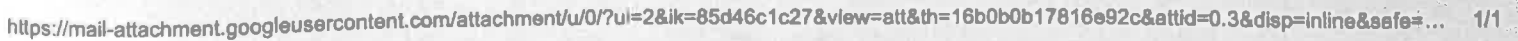
**LEFT:** Disfavored extension arm. Too narrow and noticeable due to shape change and height increase.

**RIGHT:** Preferred top-mounted antenna design with shroud cap below the actual antenna (below seam line); and without a significant pole height increase.





# Exhibit 14





Ankur Luthra &lt;ankurluthra@gmail.com&gt;

---

**Proposed Verizon Wireless Installation at 1650 Baker St. (Permit #16WR-0123)**

---

**Agatha Kehayas** <akehayas@modus-corp.com>  
To: "ankurluthra@gmail.com" <ankurluthra@gmail.com>

Thu, May 30, 2019 at 4:19 PM

Hello Ankur,

My name is Agatha Kehayas and I am reaching out from Modus LLC, an authorized agent of Verizon Wireless. Thank you for your inquiry and comment to Verizon Wireless's proposed small cell installation on an existing PG&E utility pole in the public right-of-way near 1650 Baker St., San Francisco, CA. Modus is the authorized representative of Verizon Wireless on this project.

Verizon Wireless is working to increase the data capacity of its network throughout the City and County of San Francisco to improve overall network performance and meet user demands. Specifically, this site is intended to increase data capacity along the Baker St. corridor.

Enclosed please find a copy of:

- *San Francisco Department of Public Works Tentative Approval*
- *San Francisco Planning Department Approval*
- *San Francisco Department of Public Health Approval*
- *(2) Photo Simulations of the proposed Personal Wireless Service Facility*
- *Statement of Hammett & Edison Engineers*
- *Enlarged Plan*
- *Verizon Wireless Education Handout*

You raised the issue of purported health risks.

- Health Concerns regarding Radio Frequency Emissions

Verizon Wireless is subject to very strict guidelines set by the Federal Communications Commission ("FCC") and Department of Public Health on radio frequency emissions. 47 U.S.C. § 332(c)(7)(B)(iv) establishes that "No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions." As such and with every application, Verizon Wireless is required to provide proof of compliance with FCC guidelines, and to have its verified statement of compliance reviewed by the Department of Public Health to ensure the Personal Wireless Service Facility satisfies the Public Health Compliance Standard.

Attached is the Radio Frequency ("RF") Report prepared by Hammett & Edison, an independent third-party RF engineering firm, who completed an analysis of the proposed installation to verify its compliance will all FCC RF exposure guidelines.

Under Item 7, the report finds the maximum calculated level at any nearby building is 0.53% of the public

exposure limit, occurring at 1655 Baker St., which is approximately 55 feet away. Item 8 in the report indicates that the cumulative RF fields for the proposed site at ground level is 0.33% of the applicable public exposure limit under the FCC. This report also states that the calculation results in this statement include several 'worst-case' assumptions.

Additionally, please refer to the attached DPH Approval finding in the affirmative that the Personal Wireless Service Facility ("PWSF") will comply the FCC public exposure limits.

The report indicates the directionality of the antenna proposed, which will transmit in two directions, oriented with principal directions towards 200°T and 320°T, as measured from true north. As designed, the facility will not be directing any signal in your direction. I have included the enlarged plan from the plan set that demonstrates this.

Please do not hesitate to reach out if you have other questions or concerns.

Here are some links from credible sources on the safety of radio frequency that may be helpful:

Federal Communications Commission ("FCC"): <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

Food and Drug Administration ("FDA"): <https://www.fda.gov/radiation-emittingproducts/radiationemittingproductsandprocedures/homebusinessandentertainment/cellphones/ucm116335.htm>

National Cancer Institute - <https://www.cancer.gov/about-cancer/causes-prevention/risk/radiation/cell-phones-fact-sheet>

I hope this addresses your concerns. Please do not hesitate to reach out if you have other questions.

Warm Regards,

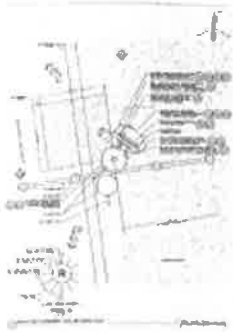
Agatha Kehayas, Project Associate III | Modus

m: 914.573.3016 | Modus | LinkedIn 

---

8 attachments

**16WR-0123 Enlarged Plan.JPG**  
77K



-  **Verizon Educational Handout.PDF**  
445K
-  **16WR-0123 DPH Approval.pdf**  
95K
-  **16WR-0123 Photo Simulation 1.pdf**  
2497K
-  **16WR-0123 Photo Simulation 2.pdf**  
4186K
-  **16WR-0123 Planning Approval.pdf**  
293K
-  **16WR-0123 RF Exposure Study.pdf**  
442K
-  **16WR-0123 TA.pdf**  
251K

# Exhibit 15



*Striving to obtain the best possible solution through  
our common-sense approach to design and engineering*

November 3, 2017

Modus Inc.  
240 Stockton Street  
San Francisco CA, 94108

Carrier: Verizon  
Client Site Number: SF PAC027  
Site Address: In Front Of:  
1615 Baker Street  
San Francisco, CA 94115



---

**PROJECT DESCRIPTION:**

Verizon proposes the following scope of work:

- Add (1) canister antenna to the pole
- Add (1) mounting bracket with equipment and conduits to the pole

**ANALYSIS:**

The purpose of this analysis is to determine if the wood pole is structurally adequate to support the proposed loadings. The pole has been analyzed in accordance with the Public Utilities Commission of the State of California General Order No. 95 (January 2015) and the Northern California Joint Pole Association Operations / Routine Handbook (2016).

**RESULTS:**

Based on our review of the pole with the proposed loadings, we have determined the following:

*Pole*

*OK \**

\* See Recommendations Section

**Comm-Sense Consulting**  
2930 Domingo Avenue, Suite 150 Berkeley, CA 94705  
Tel 916.412.7896



*Striving to obtain the best possible solution through  
our common-sense approach to design and engineering*

#### ASSUMPTIONS:

- Pole is not degraded in any way that would affect at replacement capacity and is installed plumb.
- Comm bundle attached to crossarm at 21.3' field side consists of (2) 1" dia comm lines, (1) 1/2" dia comm line, and (1) 1/4" dia messenger cable maximum each.
- Comm bundle attached to crossarm at 20.55' field side consists of (1) 1" dia comm line and (1) 1/4" dia messenger cable maximum each.
- Comm bundle attached to crossarm at 20.55' street side consists of (1) 1-1/2" dia comm line and (1) 1/4" dia messenger cable maximum each.

#### REFERENCES:

- Drawings for wireless project prepared by Comm-Sense Consulting dated 8/31/2017.
- Site photos and notes from PG&E pre-flight and site visit.

#### RECOMMENDATIONS:

The wood pole can safely support the proposed scope of work provided the pole is replaced with a pole of higher capacity. Removing the portion of existing pole may also reduce the loads to allow for the pole to pass.

The installation of the proposed Personal Wireless Service facility will not comprise the structural integrity of the utility pole and will be in compliance with any standards imposed by Northern California Joint Pole Association in the Operations/Routine Handbook. Additionally, the installation complies with the California Public Utilities General Order 95.

All assumptions listed above to be verified prior to the installation of the equipment as listed in the project description.

Sincerely,

A handwritten signature in dark ink, appearing to read "Jim Burrows".

Jim Burrows, P.E.

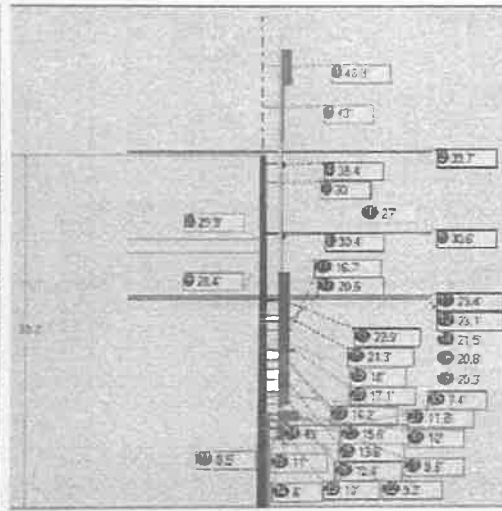
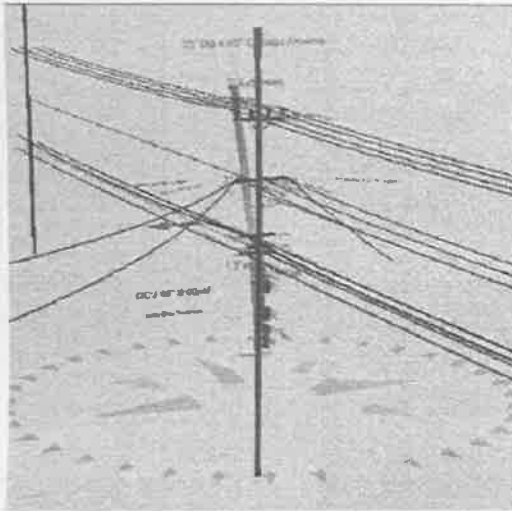


**Comm-Sense Consulting**  
2930 Domingo Avenue, Suite 150 Berkeley, CA 94705  
Tel 916.412.7896



## EXISTING POLE ANALYSIS

Pole Num:	<b>PAC027</b>	Pole Length / Class:	<b>50 / 4</b>	Code:	<b>GO 95</b>	Structure Type:	<b>Guyed Tangent</b>
Aux Data 1	<b>Unset</b>	Species:	<b>DOUGLAS FIR</b>	GO 95 Rule:	<b>At Replace (Existing)</b>	Pole Strength Factor:	<b>0.38</b>
Aux Data 2	<b>Unset</b>	Setting Depth (ft):	<b>10.70</b>	Construction Grade:	<b>A</b>	Transverse Wind LF:	<b>1.00</b>
Aux Data 3	<b>Unset</b>	G/L Circumference (in):	<b>34.84</b>	Loading District:	<b>Light</b>	Wire Tension LF:	<b>1.00</b>
Aux Data 4	<b>Unset</b>	G/L Fiber Stress (psi):	<b>8,000</b>	Ice Thickness (in):	<b>0.00</b>	Vertical LF:	<b>1.00</b>
Aux Data 5	<b>Unset</b>	Allowable Stress (psi):	<b>2,906</b>	Wind Speed (mph):	<b>55.90</b>	Bending Factor of Safety:	<b>2.11</b>
Aux Data 6	<b>Unset</b>	Fiber Stress Ht. Reduc:	<b>No</b>	Wind Pressure (psf):	<b>8.00</b>	Vertical Factor of Safety:	<b>65.04</b>
Latitude:	<b>0.000000 Deg</b>		Longitude:	<b>0.000000 Deg</b>		Elevation:	<b>0 Feet</b>



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Maximum	126.6	0.0
Groundline	126.6	0.0
Vertical	4.1	23.5

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Max Cap Util	40,704	88.2
Groundline	40,704	88.2
GL Allowable	32,438	

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
Single - 8" - Soil Class 4	115.0	180.0		4.1	90.0	9.5	0.0
EHS 1/4 (Span/Head)			29.9	10.7	90.0	24.8	0.0
Single - 8" - Soil Class 4	118.0	0.0		0.0	90.0	1.2	180.0
EHS 1/4 (Span/Head)			28.4	0.0	90.0	3.1	180.0
System Capacity Summary:				Adequate		Adequate	

**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 88.2°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	382	24.0	13,544	35.0	41.8	1,213	317	3	1,217	41.9
Comms	413	25.9	8,361	21.6	25.8	749	567	6	755	26.0
GuyBraces	2	0.1	48	0.1	0.2	4	14	0	4	0.2
GenericEquipments	488	30.6	11,285	29.2	34.8	1,011	935	10	1,021	35.1
Pole	233	14.6	4,195	10.9	12.9	376	1,037	11	387	13.3
Crossarms	8	0.5	218	0.6	0.7	20	258	3	22	0.8
Risers	48	3.0	318	0.8	1.0	29	30	0	29	1.0
Insulators	19	1.2	714	1.9	2.2	64	80	1	65	2.2
Pole Load	1,592	100.0	38,683	100.0	119.3	3,465	3,238	34	3,499	120.4
Pole Reserve Capacity			-6,245		-19.3	-559			-593	-20.4

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 88.2°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	1,359	85.4	34,488	89.2	106.3	3,090	2,201	23	3,112	107.1
Pole	233	14.6	4,195	10.9	12.9	376	1,037	11	387	13.3
<b>Totals:</b>	1,592	100.0	38,683	100.0	119.3	3,465	3,238	34	3,499	120.4

# **Exhibit 16**











































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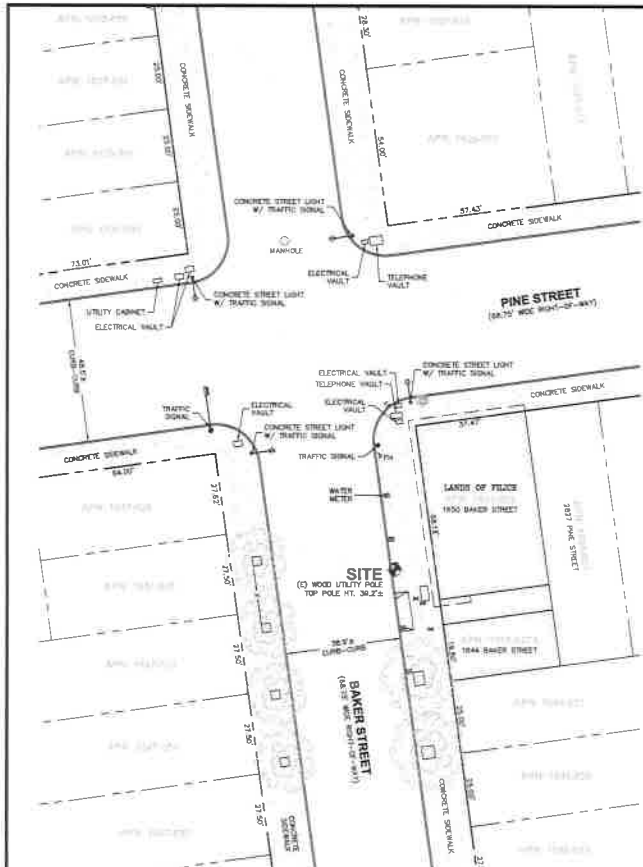
1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND NETWORK CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS, PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF ARCHITECT AND NETWORK CARRIER CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE ARCHITECT AND THE NETWORK CARRIER CONSTRUCTION PROJECT MANAGER.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT, SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
3. THE ARCHITECT/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE NETWORK CARRIER PROJECT SCOPE AND THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
4. 11X17 COPIES OF DRAWINGS ARE NOT TO BE SCALED DUE TO DISTORTIONS RESULTING FROM MULTIPLE REPROGRAPHIC COPIES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS.
5. OWNER, CONTRACTOR, AND NETWORK CARRIER REPRESENTATIVE SHALL REVIEW AND CONFIRM THAT PROJECT SCOPE, DESIGN INTENT AND UTILITY COORDINATION ITEMS ARE INCLUDED IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION FROM NETWORK CARRIER REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL PERFORM WORK DURING OWNERS' PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS OR TENANTS.
8. THE CONTRACTOR SHALL PROVIDE WORKER PROPER INSURANCE CERTIFICATES NAMING NETWORK CARRIER AS ADDITIONAL INSURED, AND PROVIDE NETWORK CARRIER PROOF OF LICENSE(S) INCLUDING PL & PO INSURANCE.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
11. ALL WORK PERFORMED ON THE PROJECT ALONG WITH ALL MATERIALS INSTALLED, SHALL COMPLY IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPALITY, UTILITY COMPANY AND LOCAL/STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
12. A COPY OF THE GOVERNING AGENCY ISSUED AND APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION AT ALL TIMES. THE ORIGINAL PERMIT SET PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF THE ORIGINAL PERMIT SET PLANS WITH ALL REVISIONS, ADDENDAS, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY THE NETWORK CARRIER CONSTRUCTION PROJECT MANAGER WITH A COPY OF ALL REVISIONS, ADDENDAS, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.
13. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
14. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PUMPING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS AND WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE JOB SITE WHILE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
16. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THE PLANS, ALONG WITH PROTECTING THEM FROM DAMAGE. THE CONTRACTOR AND SUBCONTRACTOR SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE RESULTING FROM OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
17. ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
  - A. PROPERTY NOTED TO BE RETURNED TO THE OWNER.
  - B. PROPERTY NOTED TO BE REMOVED BY THE OWNER.
18. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
19. WHEN ROOF TOP OR TOP FLOOR DECK TEMPORARY STAGING IS REQUIRED, MATERIALS SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE DOESN'T HAVE THE DESIGN STRENGTH FOR ADDITIONAL LOADING.
20. SEAL ALL PENETRATIONS WITHIN FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THE SUBJECT FACILITY AND OR PROJECT SITE.
21. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GROUND DISTURBANCE, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS WARRANTED BY THE GOVERNING AGENCY.
22. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
23. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, AND CURBING, DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ADJACENT TO THE PROPERTY.
24. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION, DISPOSING OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPLITS, DUST, OR SHADOWS OF ANY NATURE.
25. NEW CONSTRUCTION INSTALLED ADJACENT EXISTING BUILDINGS OR CONSTRUCTION SHALL ARCHITECTURALLY MATCH THE EXISTING IN TERMS OF COLOR, TEXTURE, FINISH MATERIALS, ETC., EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.
26. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR OTHER ANCHORAGE DEVICES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND CODE COMPLIANT INSTALLATION.
27. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INSTALLATIONS THAT ARE CONSTRUCTED LEVEL, ERECT, EVENLY ALIGNED, PLUMB AND TRUE BASED ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL COMPARE EXISTING CONDITIONS WITH THE PROPOSED DESIGN PRIOR TO CONSTRUCTION AND REPORT TO THE NETWORK CARRIER'S REPRESENTATIVE AND FURNISH TO THE ARE SUCH THAT THE NEW INSTALLATION WILL LIKEWISE BE LEVEL, ERECT, EVENLY ALIGNED, PLUMB AND TRUE. NETWORK CARRIER SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
28. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, VIB, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
29. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REMISIONS AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
30. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT STORE OR STAGE MATERIALS ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
31. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN ALL CONDITIONS UNLESS ILLUSTRATED AND NOTED OTHERWISE.
32. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE PREPARED PROPERLY BY THE WORK OF OTHER TRADES.
33. ALL DEBRIS AND REFUSE SHALL BE REMOVED FROM THE PROJECT PREMISES AND LEFT IN A CLEAN THIEFT CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
34. NETWORK CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER.

## GENERAL NOTES

35. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
36. CAUTION - CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
37. WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND MAKE ARRANGEMENTS FOR R.O.W. AND/OR PRIVATE PROPERTY LOCATED BASED ON SPECIFIC SITE REQUIREMENTS.
38. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
39. CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO NETWORK CARRIER'S REPRESENTATIVE ALONG WITH REDUCED CONSTRUCTION SET.
40. CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (RED Lining) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED ALONG WITH PHOTOGRAPHS PER NETWORK CARRIER REQUIREMENTS.
41. GENERAL CONTRACTOR SHALL COORDINATE AND SEEK APPROVAL OF ALL POWER DRAW, INSTALLATION AND/OR MODIFICATIONS WITH POWER COMPANY, OWNER AND JURISDICTION AS REQUIRED. CONTRACTOR SHALL REPORT POWER INSTALLATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
42. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY NETWORK CARRIER CONSTRUCTION MANAGER.
43. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INTERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE ACCORDING UNDER THIS CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. EXCEPTION: THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COVERED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATER-TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
44. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, AND WORKMEN, AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
45. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT (UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE) AND MAKE FINAL PAYMENT FOR SAID DOCUMENT(S).
46. NETWORK CARRIER'S REPRESENTATIVE SHALL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. NETWORK CARRIER'S REPRESENTATIVE PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
47. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY NETWORK CARRIER.
48. CONTRACTOR SHALL PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
49. CONTRACTOR SHALL PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
50. CONTRACTOR SHALL REPLACE EXISTING LANDSCAPE VEGETATION DAMAGED DUE TO CONSTRUCTION ACTIVITIES, AND REPAIR, RESTORE AND MODIFY EXISTING IRRIGATION UNITS IF NECESSARY, TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
51. IN THE CASE OF ROOF TOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCURS, GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER TO OBTAIN CONTACT INFORMATION AND UTILIZE THE EXISTING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY ENSURING 100% MOISTURE PROTECTION.
52. IN THE CASE OF ROOF TOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCRETE (SHROUDED) SUPPORT FRAMES OR TRIPPODS, GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMULATING (IN APPEARANCE) EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK OR FLATHEAD FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTO-SIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTO-SIMULATIONS. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
53. IN THE CASE OF ROOF TOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO AN EXISTING CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS WITHIN THE ROOF SLAB RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS-BUILT DRAWING SET" HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.
54. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON TOWER NETWORK CARRIER PROJECTS. RECOMMENDED MANUFACTURE SHALL BE, PAINTOUT CORP. METAL LOCKING TIES MODEL NO. M-45-CR UNDER SERIES-304 (OR EQUIV.). PAINTOUT PRODUCT DISTRIBUTED BY TRAVIS.
55. GENERAL CONTRACTOR SHALL OBTAIN, REVIEW AND EXECUTE ALL NETWORK CARRIER CONSTRUCTION STANDARDS (MOST RECENT REVISION) AS A PART OF THIS BID AND CONSTRUCTION PROJECT.
56. GENERAL CONTRACTOR SHALL OBTAIN, REVIEW AND EXECUTE ALL NETWORK CARRIER CONSTRUCTION STANDARDS (MOST RECENT REVISION) AS A PART OF THIS BID AND CONSTRUCTION PROJECT.
57. CONTRACTOR SHALL BE RESPONSIBLE TO SET ELECTRONIC TIES FOR NEWLY INSTALLED ANTENNAS UNDER THE CONDITION THAT THE GC OBTAIN THE MOST RECENT COPY OF THE RF-TL INFORMATION SUCH THAT THE ACCURATE CONTROLLER CAN BE ORDERED AND INSTALLED.
58. A STRUCTURAL ANALYSIS SHALL BE COMPLETED AND SUBMITTED TO THE NETWORK CARRIER REPRESENTATIVE AND GC DEMONSTRATING CAPACITY AT THE EXACT LOCATION OF EXISTING CONDITIONS TO SUSTAIN ADDITIONAL HEAVY BATTERY CABINETS OR OTHER OUT OF SCOPE EQUIPMENT.
59. THE GC SHALL PROVIDE MATERIALS LIST (BOM) TO THE NETWORK CARRIER REPRESENTATIVE PRIOR TO CONSTRUCTION.

	GRID REFERENCE
	DETAIL REFERENCE
	ELEVATION REFERENCE
	SECTION REFERENCE
	CENTERLINE
	PROPERTY/LEASE LINE
	MATCH LINE
	WORK POINT
	GROUND CONDUCTOR
	TELEPHONE CONDUIT
	ELECTRICAL CONDUIT
	COAXIAL CABLE
	OVERHEAD SERVICE CONDUCTORS
	JOIST OR PLASTER
	(E) BRICK
	(F) MASONRY
	CONCRETE
	EARTH
	GRAVEL
	PLYWOOD
	SAND
	WOOD CONTINUOUS
	WOOD BLOCKING
	STEEL
	(N) NEW
	(E) EXISTING
	NEW ANTENNA
	EXISTING ANTENNA
	GROUND ROD
	GROUND BUS BAR
	MECHANICAL GRID.
	CADWELD
	GROUND ACCESS ME
	ELECTRIC BOX
	TELEPHONE BOX
	LIGHT POLE
	FIN. MONUMENT
	SPOT ELEVATION
	SET POINT
	REVISION

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1 SITE PLAN  
SCALE: 1" = 20'



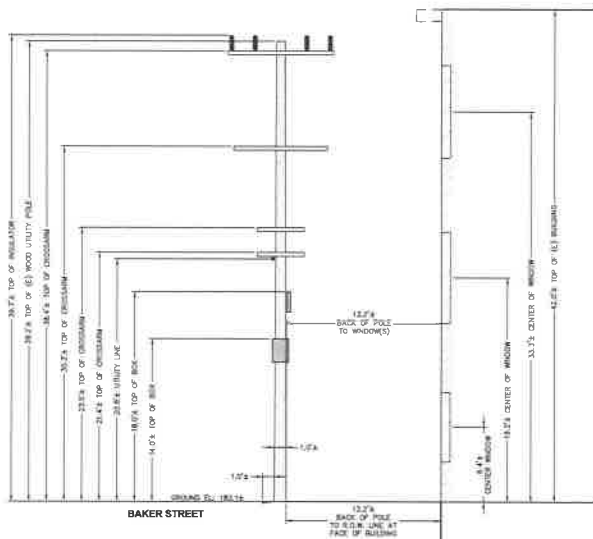
**QUIET RIVER**  
Land Services Inc.  
SCALE IN INCHES  
MAGNETIC DECLINATION = 13°29'  
FOR 10/11-10/20'

**SITE**  
CITY POINT (NAD 83)  
LAT: N 37°45'11.34"  
LONG: W 122°29'36.43"  
ELEV: 165.15' AMSL  
AT GROUND (NAVD 88)  
(S) WOOD UTILITY POLE  
TOP POLE HT. 36.2'

**BAKER STREET**  
(SOUTH SIDE RIGHT-OF-WAY)



2 ENLARGED SITE PLAN  
SCALE: 1" = 5'



3 UTILITY POLE ELEVATION  
SCALE: 1" = 5'

**VICINITY MAP**  
NOT TO SCALE



**PROPERTY INFORMATION**  
Owner: SAN FRANCISCO PUBLIC RIGHT-OF-WAY  
Address: 1550 MARKET STREET  
SAN FRANCISCO, CA 94103  
Site: PAC HEIGHTS 027  
Address: 1850 BAKER STREET  
SAN FRANCISCO, CA 94115  
Assessor's Parcel Number: PUBLIC RIGHT-OF-WAY  
Height of Building/Tower: 36.2'± ABL TOP OF (S) WOOD UTILITY POLE  
Title Report:  
NO TITLE REPORT FURNISHED. EXCEPTIONS TO THE TITLE AND RESERVATIONS THEREON COULD NOT BE DETERMINED. BOUNDARY INFORMATION SHOWN IS COMPILED FROM AVAILABLE RECORD DATA.  
Legal Description:  
PUBLIC RIGHT-OF-WAY

**FEMA FLOOD ZONE DESIGNATION** National Flood Insurance Program  
County: SAN FRANCISCO Effective Date:  
Community-Flood Number:  
The Flood Zone Designation for this site as printed by email to:  
San Francisco does not participate in the FEMA program.

**SURVEY DATA**  
MAG 63 Datum:  
LAT: N 37°45'11.34" LONG: W 122°29'36.43"  
Datum Base: MAG 63 Equipment Used: CHICAGO-ORIS Register  
(See Note 2)  
Site Ground Elevation: 165.15'± (NAVD83) AT BASE OF (S) UTILITY POLE  
Bench of Elevations: 165.15'± (NAVD83) AT BASE OF (S) UTILITY POLE  
GLOBAL POSITIONING SYSTEM (GPS)  
(See Note 2)  
Bench of Benchmarks:  
C.C.S.F. PUBLIC WORKS DEPARTMENT DIGITAL BASEMAP CAD FILES (SPCS)  
CALIFORNIA COORDINATE SYSTEM ZONE 10, AND BEST FIT WITH EXISTING IMPROVEMENTS.  
Date of Field Survey: SEPTEMBER 20, 2018

**NOTES**  
1.) This is not a boundary survey. This is a specialized topographic map with property lines and easements being a graphic depiction of surface information gathered from preliminary site reports, satellite measurements of record data and satellite measurements found during the field survey. The property measurements were not. The site measurements were performed by Quiet River Land Services, Inc.  
2.) The latitude, longitude and elevation shown herein were derived from post-processed L1/L2 GPS collected using Real-time Global Positioning System (RTS) and a CHICAGO-ORIS Register. GPS measurements are reported to the nearest millimeter (horizontal) when data is properly collected and processed. (Correction = 2.50 feet).  
3.) Unless otherwise noted, no underground utility locating service company was contacted prior to this survey being performed. Therefore, there may be non-visible or obscure utilities existing on the property not shown on this map - so call BEFORE YOU DIG.  
4.) Any electronic digital media provided by Quiet River Land Services, Inc. is our effort to a computer and is not to be reproduced, distributed, sold, altered, revised, added or inserted without the express written consent of an officer of Quiet River Land Services, Inc. Further, only the first electronic digital media original hard copy version of our survey or map is considered to be our survey or map product.

**SURVEYOR'S STATEMENT**  
I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California, do hereby state that the information, measurements, descriptions, reports, drawings, plans, findings and observations or other matters are based upon a field survey or other data and upon the basis of public records and data contained in a title report, as referenced. Furthermore, the latitude and longitude coordinates are reported to the nearest millimeter (horizontal) and the elevation is reported to the nearest millimeter (vertical) as determined by the CHICAGO-ORIS Register. The accuracy of the measurements, findings and observations is to the best of my knowledge and belief, and are accurate to the best of my knowledge and belief.

**LEGEND**  
APN: ASSESSOR'S PARCEL NUMBER  
CP: CONTROL POINT  
EL: ELEVATION  
FH: FIRE HYDRANT  
FO: FOUND  
HT: HEIGHT  
MON: MONUMENT  
MON-T: MONUMENT TO MONUMENT  
P.O.B.: POINT OF BEGINNING  
P.O.C.: POINT OF COMMENCEMENT  
PP: POWER POLE  
[TYP]: TYPICAL  
ASPHALT  
CONCRETE  
CONTROL POINT  
FOUND MONUMENT  
GPS POINT  
PARAPET/ROOF ELEVATIONS  
SPOT ELEVATION  
TEMPORARY BENCHMARK

DATE: SEPTEMBER 27, 2018  
DRAWN BY: RO  
FILE NO.: MDSC1892

REVISIONS		
DATE	DESCRIPTION	INITIAL
9/27/18	100% COMPLETE	RO

**verizon wireless**  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA 94598  
TEL (925) 279-6328 FAX: (925) 279-6365

**QUIET RIVER**  
Land Services Inc.  
6747 Sierra Court, Suite K  
Dublin, CA 94568  
(925) 734-5768 Phone

EXISTING SITE CONDITIONS

**PAC HEIGHTS 027**  
PUBLIC RIGHT-OF-WAY AT  
1850 BAKER STREET  
SAN FRANCISCO, CA 94115

**C1**

OF 1 SHEET





Prepared for:

**verizon**  
2785 MITCHELL DRIVE, SUITE 9  
WALNUT CREEK, CA 94598

Vendor:



240 STOCKTON STREET, 3RD FLOOR  
SAN FRANCISCO, CA 94103

Architect:



4780 CHAMPT DRIVE, SUITE 104  
PLEASANTON, CA 94588  
Phone: (925) 395-8000

VERICON SITE NO: SF\_PAC027

PROJECT NO:

DRAWN BY: FD

CHECKED BY: RK

CONSTRUCTION

REV	DATE	DESCRIPTION	BY
REV1	12/18/16	DPN COMMENTS	SG
REV2	03/01/17	42520 NEW SHIELD	SG
REV3	11/29/17	CLINE COMMENTS	SG
REV4	06/19/17	CLINE COMMENTS	SG
REV5	03/01/17	HODGINS COMMENTS	SG
REV6	06/01/16	PRELIMINARY FOR REVIEW	SG
REV7	06/01/16	PRELIMINARY FOR REVIEW	SG

License:

IT'S A VIOLATION OF LAW FOR ANY  
FISCAL, UNLESS THEY ARE ACTING  
UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER TO ALTER THIS  
DOCUMENT.

Project Title:

SF PAC027

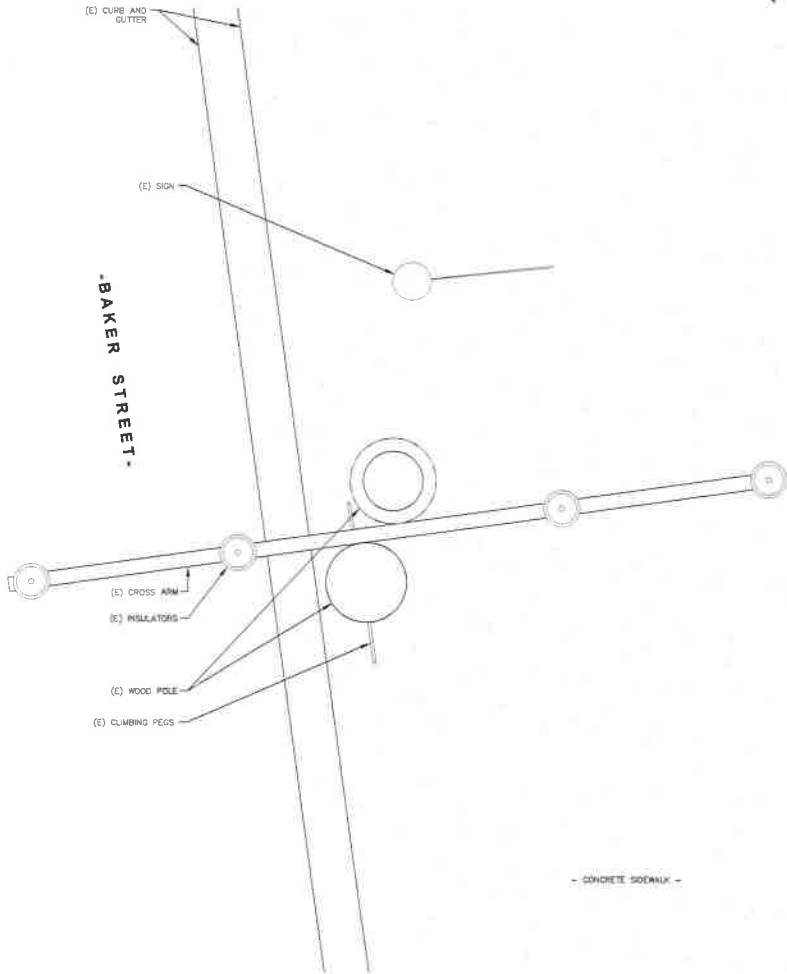
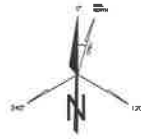
PUBLIC RIGHT OF WAY  
1650 BAKER ST.  
SAN FRANCISCO, 94115

Sheet Title:

EXISTING AND  
PROPOSED  
EQUIPMENT PLAN

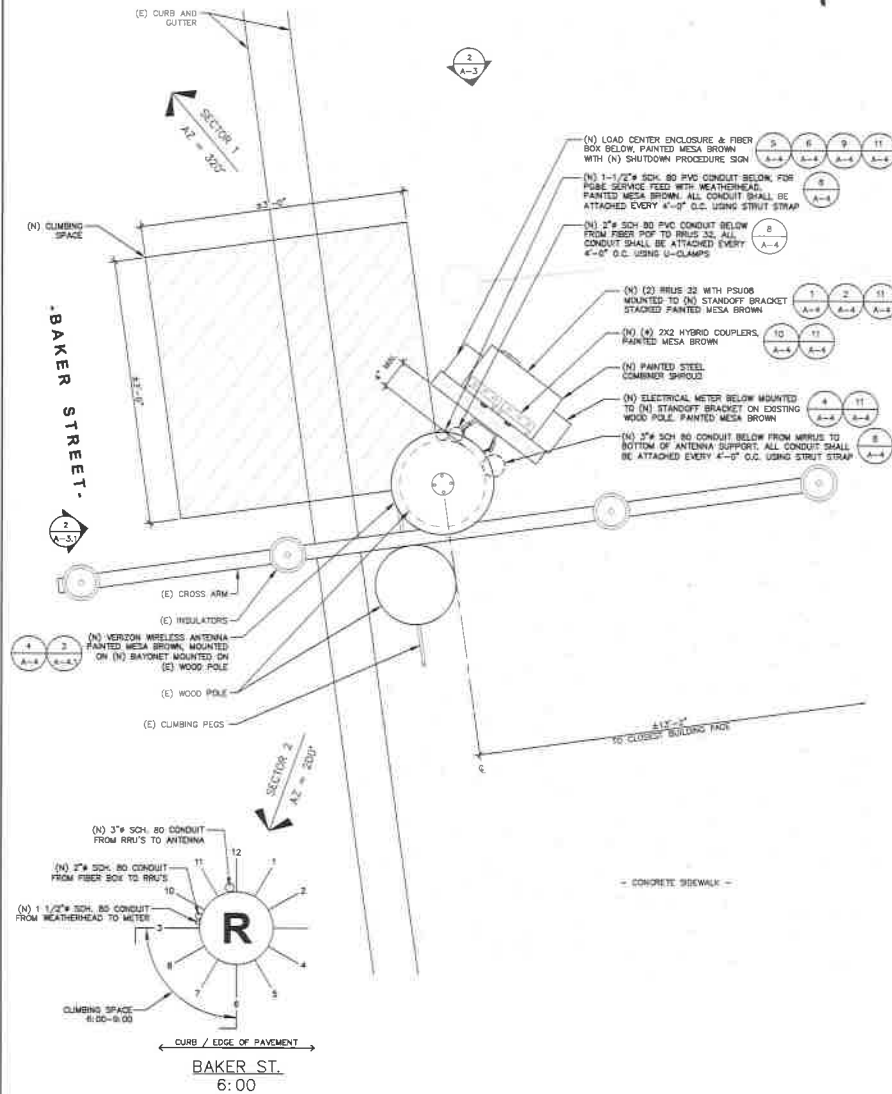
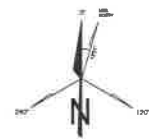
Sheet Number:

**A-2**



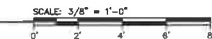
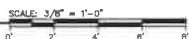
1 EXISTING PROJECT AREA PLAN

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

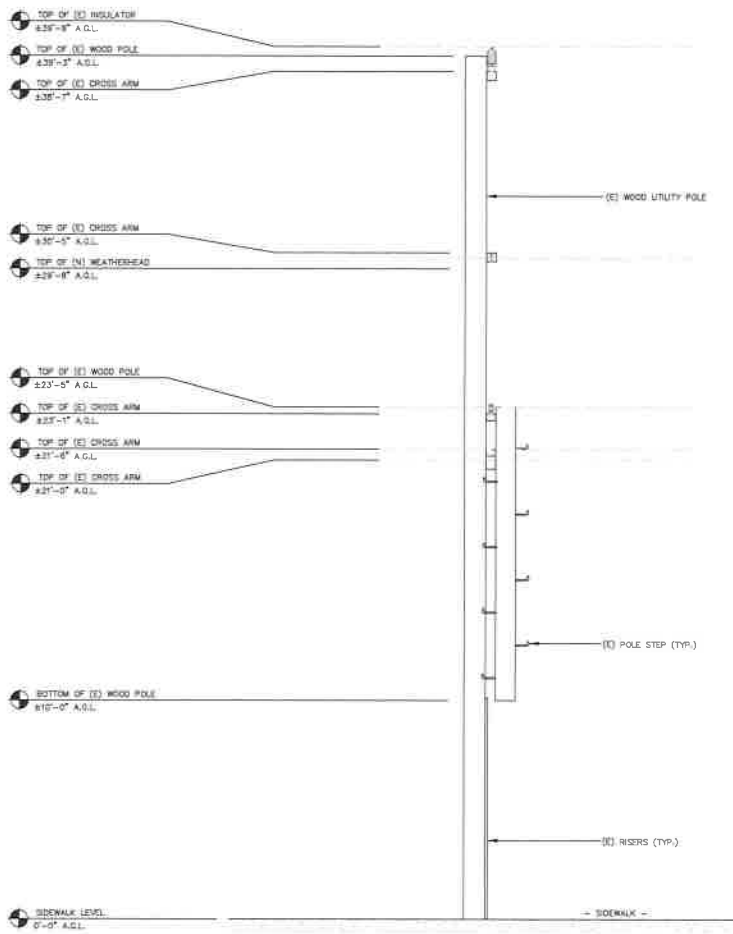


2 PROPOSED EQUIPMENT AND ANTENNA PLAN

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

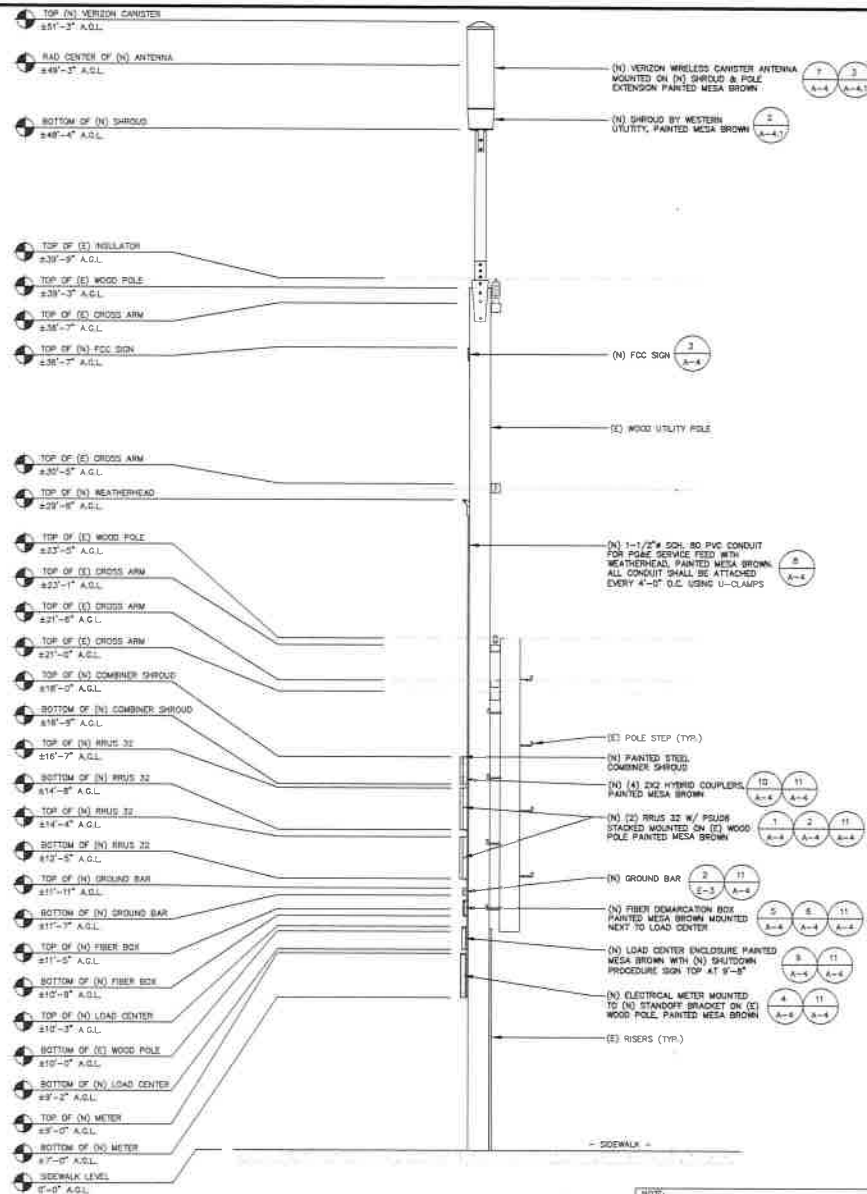


A-3



1 EXISTING WEST ELEVATION

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



2 PROPOSED WEST ELEVATION

NOTE:  
ALL ANTENNAS, RISER'S, MOUNTING HARDWARE, AND CONDUIT TO BE PAINTED MESA BROWN.

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

Prepared for:

**verizon**

2785 MITCHELL DRIVE, SUITE 3  
WALNUT CREEK, CA 94598

Vendor:



240 STOCKTON STREET, 3RD FLOOR  
SAN FRANCISCO, CA 94103

Architect:



4780 CHABOT DRIVE, SUITE 104  
PLEASANTON, CA 94566  
Phone: (925) 398-8000

VERISON SITE NO: SF\_PAC027

PROJECT NO:

DRAWN BY: FC

CHECKED BY: RK

STATUS FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY
REV1	12/16/18	ADD COMMENTS	JS
REV2	1/24/19	ADD NEW SURVEY	JS
REV3	11/20/17	CLIENT COMMENTS	JS
REV4	10/16/17	CLIENT COMMENTS	JS
REV5	11/16/17	CLIENT COMMENTS	JS
REV6	11/16/17	CLIENT COMMENTS	JS
REV7	11/16/17	CLIENT COMMENTS	JS
REV8	11/16/17	CLIENT COMMENTS	JS
REV9	11/16/17	CLIENT COMMENTS	JS
REV10	11/16/17	CLIENT COMMENTS	JS
REV11	11/16/17	CLIENT COMMENTS	JS
REV12	11/16/17	CLIENT COMMENTS	JS
REV13	11/16/17	CLIENT COMMENTS	JS
REV14	11/16/17	CLIENT COMMENTS	JS
REV15	11/16/17	CLIENT COMMENTS	JS
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REV96	11/16/17	CLIENT COMMENTS	JS
REV97	11/16/17	CLIENT COMMENTS	JS
REV98	11/16/17	CLIENT COMMENTS	JS
REV99	11/16/17	CLIENT COMMENTS	JS
REV100	11/16/17	CLIENT COMMENTS	JS

Location:

IT IS A VIOLATION OF LAW FOR ANY  
PERSON UNLESS THEY ARE ACTING  
UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER TO ALTER THIS  
DOCUMENT.

Project info:

SF PAC027

PUBLIC RIGHT OF WAY  
1650 BAKER ST.  
SAN FRANCISCO, 94115

Sheet Title:

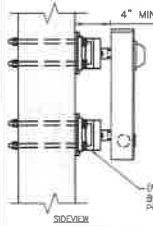
WEST  
ELEVATIONS

Sheet Number:

A-3.1

# 6B-CSO-8-SURGE

Cable Number	Point	6" Diameter
6B-CSO-8-SURGE	1	6"
6B-CSO-8-SURGE	2	6"
6B-CSO-8-SURGE	3	6"
6B-CSO-8-SURGE	4	6"
6B-CSO-8-SURGE	5	6"
6B-CSO-8-SURGE	6	6"
6B-CSO-8-SURGE	7	6"
6B-CSO-8-SURGE	8	6"
6B-CSO-8-SURGE	9	6"
6B-CSO-8-SURGE	10	6"
6B-CSO-8-SURGE	11	6"
6B-CSO-8-SURGE	12	6"

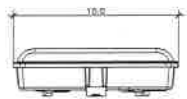


4" MIN.  
ALUMA-FORM BRACKET SYSTEM  
AVAILABLE FROM ACE SUPPLY  
CAM-P-DUY-3ACE  
ALUMA-FORM, INC.  
(901) 362-0100



(N) STANDOFF BRACKET THRU  
BOLTED TO (R) UTILITY WOOD  
POLE, PAINTED MESA BROWN

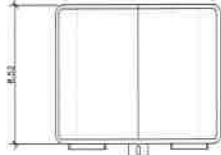
MANUFACTURER: ARIA TECHNOLOGIES, INC.  
MODEL: AWM-12  
DESCRIPTION: NETWORK INTERFACE DEVICE  
HEIGHT: 8.54 in. (217 mm)  
WIDTH: 10.0 in. (254 mm)  
DEPTH: 2.88 in. (73 mm)  
CAPACITY: 8-PACK DUAL-DIP SC OR LC;  
12 FIBERS  
SPECIAL FEATURES: AVAILABLE AS A SINGLE  
OR DUAL, 300B



TOP VIEW



SIDE VIEW



FRONT VIEW

AWM-12 NETWORK INTERFACE DEVICE DETAIL

SCALE: N.T.S.

9

AMPERE RATING:  
MAX. SINGLE POLE CIRCUITS:  
SHORT CIRCUIT CURRENT RATING:  
VOLTAGE RATING:  
MAX. TANDEM CIRCUIT BREAKERS:  
PHASE:  
WIRING CONFIGURATION:  
DEPTH:  
HEIGHT:  
WIDTH:  
SPACES:

100A  
12  
10KA  
120/240VAC  
0  
1-PHASE  
3-WIRE  
4.27 INCHES  
12.65 INCHES  
8.68 INCHES  
6



QO12L 100RB DISCONNECT DETAIL

SCALE: N.T.S.

6

NOTE:  
NEW VINYL SIGN TO BE PROVIDED BY VERIZON WIRELESS AND  
BE PLACED ON THE SIDE POLE FACING THE STREET, 4" BELOW ANTENNA.  
COLOR TO BE DETERMINED PRIOR TO INSTALLATION



FCC SIGN

SCALE: N.T.S.

3

## COMMSCOPE

H3 COMSCOPE  
H3 COMSCOPE, H3 COMSCOPE, H3 COMSCOPE



### General Specifications

Brand: H3  
Device Type: H3  
Interface: H3  
Color: H3

### Electrical Specifications

Operating Frequency Band: 880 - 2100 MHz  
Bandwidth: 12.5 MHz  
Average Power: 200 W  
Cooling: 2.5 W  
Cooling Fan: 2.5 W  
Temperature: 50 mm  
Connector Loss at Frequency Band: 0.5 dB @ 880-2100 MHz  
Connector at Frequency Band: 0.5 dB @ 880-2100 MHz  
Input Power: 200 W  
Output Power: 200 W  
Return Loss: 20 dB

### Mechanical Specifications

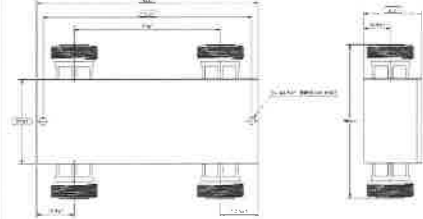
Coupling Loss Proof Torque: 25.00 Nm (12.44 ft-lb)  
Outer Contact Pinning: 19mm  
Outer Contact Pinning: 19mm

### Environmental Specifications

Application: 1200V, 2000V  
Operating Temperature: 100-200°C (212-392°F)  
Relative Humidity: 10-90%

### Dimensions

Height: 36.00 mm (1.42 in.)  
Length: 125.00 mm (4.92 in.)  
Width: 96.00 mm (3.78 in.)  
Weight (kg): 0.00 kg (0.00 lb)



H-3-CPUSE-D-Ai6 HYBRID COUPLER DETAIL

SCALE: N.T.S.

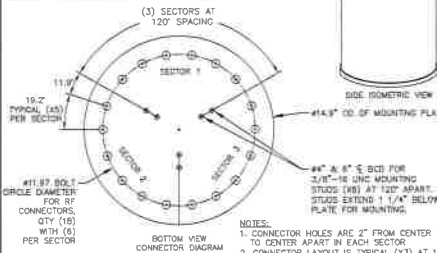
10

RISER GUARD DETAIL

SCALE: N.T.S.

8

MANUFACTURER: AMPHENOL  
MODEL: CUUT070X12Fxyz0  
FREQUENCY RANGE: 688-880 MHz  
HEIGHT: 48 in / 1219 mm  
DIAMETER: 14.6 in / 371 mm  
WEIGHT: 40.7 lb / 18.2 kg  
ANTENNA VOLUME: 4.7 ft<sup>3</sup> / 0.13 m<sup>3</sup>  
SURVIVAL WIND SPEED: 125 mph / 200 km/hr  
WIND AREA: 4.8 ft<sup>2</sup> / 0.45 m<sup>2</sup>  
WIND LOAD (160 km/hr or 100 mph): 86 lb / 383 N  
CONNECTORS: (4x) 4.3/10 OR 7/16-IN FEMALE



CUUT070X12Fxyz0 ANTENNA DETAIL

SCALE: N.T.S.

7

SHUTDOWN PROCEDURE SIGN

SCALE: N.T.S.

5



AMPACTY MAX./CONT.:  
VOLTAGE:  
SERVICE TYPE:  
NUMBER OF JAWS:  
HUB PROX:  
PHASE CONDUCTOR LINE/LAG:  
NEUTRAL CONDUCTOR:  
DEPTH:  
HEIGHT:  
WIDTH:

125 / 100  
600  
10 3W  
4 TO 7  
AW  
14 AWG - 2/0 AWG  
14 AWG - 1/0 AWG  
4 INCHES  
24 INCHES  
12 INCHES

U214MTBPL METER MAIN DETAIL

SCALE: N.T.S.

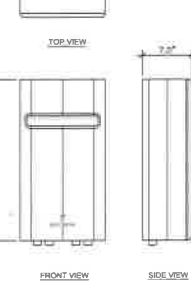
4

NOT USED

SCALE: N.T.S.

2

MANUFACTURER: ERICSSON  
MODEL: RRUS-32  
DEPTH: 7.0 in. (178mm)  
LENGTH: 27.2 in. (690mm)  
WIDTH: 12.1 in. (306mm)  
WEIGHT: 80.0 lb (27kg) (EXCLUDING HARDWARE)  
FREQUENCY: REFER TO RF DATA SHEET



RRUS 32 DETAIL

SCALE: N.T.S.

1

Prepared for:



Vendor:



240 STOCKTON STREET, 3RD FLOOR  
SAN FRANCISCO, CA 94105

Architect:



4780 CHABOT DRIVE, SUITE 104  
PLEASANTON, CA 94566  
Phone: (925) 398-8000

VERSION SITE NO: SF\_PAC027

PROJECT NO:

DRAWN BY: FD

CHECKED BY: RK

Notes TO:

CONSTRUCTION

Rev	By	Date	Description
001	001	001	001
002	002	002	002
003	003	003	003
004	004	004	004
005	005	005	005
006	006	006	006
007	007	007	007
008	008	008	008
009	009	009	009
010	010	010	010

Licensor:

Project Info:

SF PAC027

PUBLIC RIGHT OF WAY  
1650 BAKER ST.  
SAN FRANCISCO, 94115

Sheet Title:

EQUIPMENT  
DETAILS

Sheet Number:

A-4

Scale:

1

Scale:

1

Scale:

1

Scale:

1

Scale:

1

Scale:

1

Scale:

1

Scale:

1

Scale:

1















