

### SAN FRANCISCO PLANNING DEPARTMENT

### МЕМО

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DATE:	February 25, 2015
TO:	Architectural Review Committee of the Historic Preservation Commission
FROM:	Omar Masry, Wireless Planner – (415) 575-9116
<b>REVIEWED BY:</b>	Tim Frye, Preservation Coordinator, (415) 575-6822
RE:	Review and Comment March 4, 2015 Hearing Wireless Telecommunication Services (WTS) Facilities on Various Light, Transit and Utility Poles within Article 10 and 11 Districts Case Nos. 2015-001772COA & 2015-002029PTA

#### BACKGROUND

The Planning Department (Department) has requested review and comment before the Architectural Review Committee (ARC) regarding the proposed exterior alteration of existing light, transit, and utility poles within the public right-of-way, adjacent to properties within Article 10 and 11 Historic and Conservation Districts,

#### PROPERTY DESCRIPTION

The Project sites are multiple locations (light, transit, and utility poles alongside streets) within the public rights-of-way for multiple landmark and conservation districts. The proposal would initially involve locations within and adjacent to the Civic Center, Northeast Waterfront, and South End landmark districts, though similar locations are likely to be proposed in areas adjacent to other Article 10 and 11 districts within the City. The pole locations would also include locations outside but near Article 10 and 11 Districts; with an initial focus on areas such as portions of Market Street not bordering an Article 10 or 11 District, and areas east of Van Ness Avenue and generally north of Cesar Chavez Street.

#### PROJECT DESCRIPTION

The proposed Project is for the installation of Wireless Telecommunications Services (WTS) Facilities on light, transit and utility poles. These systems are known as "Small Cells" or Distributed Antenna Systems, which is also referred to as "DAS." The initial installation is intended for the Verizon Wireless network, using their network partner, Extenet Systems. Similar proposals are being considered by other wireless carriers such as Sprint. There are two

primary types of systems currently proposed by Verizon Wireless and their network partner, Extenet Systems:

- DAS facilities mounted on existing standard steel light and transit poles, with an initial deployment on approximately 40 poles within the Civic Center, Northeast Waterfront, and South End Historic Districts. The remaining poles; numbering approximately 300 for the initial deployment, would be located in areas such as the Civic Center, Financial District, Nob Hill, and South of Market Area (SoMa) neighborhoods.
- DAS facilities mounted on two (2) existing wooden utility poles owned by the Joint Pole Association adjacent to properties at 1025 Sansome and 848 Battery Streets within the Northeast Waterfront Landmark District.

The proposed Project would feature the following installations on existing steel light and transit poles:

- Two (2) radio relay units (RRUs), which house electronics used to run the facility, mounted midway down the exterior of the pole. Each RRU would measure approximately 17 inches tall, 10 inches wide, and 6 inches deep. A single shrouded conduit would exit below each of the RRUs, and enter the pole approximately five (5) inches below each RRU. The RRUs do come with a pre-installed antenna, however the antenna would be removed and instead route signals to a separate antenna.
- An antenna mounted above the top of the pole, with shrouding elements to screen the attachment mechanisms, cabling and equipment from view. The shroud element on standard steel tapered light poles would measure approximately 10.5 inches in width. Relatively wider light poles or "plain" steel poles (no lighting elements) used to hold up SFMTA-owned electric overhead lines would feature shrouding elements for the top-mounted antenna measuring approximately 14 inches in width.
- A required, white and blue colored sticker indicating radio-frequency and site identification information placed on the pole below the cobra head light element (for light poles) or within a few feet of the antenna for poles (e.g. transit) with no lighting elements.
- No new aerial conduit (wires) would be proposed, with all cabling routed through the pole into underground conduits and vaults. No major trenching is proposed, however in some instances small vaults, with lids flush to the sidewalk would be required. A protection plan would be required for locations near granite curbs, or certain sidewalk areas featuring materials or designs considered character defining.
- No installations are proposed on existing poles or light standards which have any local, State, or national regulation, such as the Path of Gold Light Standards or the Golden Triangle

Light Standards.

#### **ARTICLE 10 AND 11**

In reviewing an application for a Certificate of Appropriateness and Permit to Alter, the Historic Preservation Commission must consider whether the proposed work would be compatible with the character of the existing property and is in compliance with the *Secretary of the Interior's Standards for the Treatment of Historic Properties*, Section 1111.6 of the Planning Code, as well as the designating Ordinance and any applicable guidelines, local interpretations, bulletins, related appendices, or other policies.

Authorized by Sections 1006.2 and 1111.1 of the Planning Code, proposals determined to be minor in scope may be delegated to the Department for administrative review and approval through an Administrative Certificate of Appropriateness or a Minor Permit to Alter. While not explicitly outlined within the HPC Motion No. 0241 delegation, the Department categorizes the installation of WTS and related facilities under the delegation as rooftop equipment and related appurtenances. The delegation does not preclude the Department or the HPC from using its discretion in requiring a request for a Certificate of Appropriateness or a Permit to Alter be considered at a regularly scheduled HPC hearing.

#### STAFF ANALYSIS

Specifically, the Department seeks the advice of the ARC regarding compatibility of the proposed Small Cells within both specific Article 10 and 11 Districts, where facilities are proposed, and the potential for similar installations in Article 10 and 11 Districts throughout San Francisco. Initial design renderings are included as attachments for reference to give the members of the ARC a better understanding of the evolution of the proposed Project to date.

The proposal would be the first major deployment of commercial wireless infrastructure on City-owned steel light and transit poles within San Francisco. There are existing City-owned wireless antennas attached to steel light and transit poles, which provide public City Wi-Fi service, in areas such as Market Street, between Castro and Drumm Streets.

The Department would like the ARC to consider the following information:

#### **Steel Light and Transit Poles**

The Project proposes to allow the installation of equipment and antennas on utilitarian steel poles, and do not possess any local, State, or national recognition, such as the Path of Gold Light Standards, Landmark No. 200 along Market Street or the Golden Triangle Light Standards City, Landmark No. 233 located around Union Square and within the Kearny-Market-Mason-Sutter Article 11 Conservation District. The equipment and antennas will be installed throughout areas within Article 10 and 11 Districts; and areas bordering such districts, such as Market Street.

#### **Recommendation:**

- 1. The Department recommends requiring certain treatments or elements to minimize the visibility of the RRUs (boxes midway down the pole), such as appropriate guide, informational, or traffic signage. Such treatment would require individual site review, for all facilities that are: 1) on Market Street, 2) specific pole locations, which are within Article 10 or 11 Districts, or 3) within 150 feet of a building designated, or any individual building designated pursuant to Articles 10 or 11 of the Planning Code.
- **2.** To ensure consistency, the Department recommends requiring future similar systems by other wireless carriers to conform to the design intent (equipment sizes, and overall profile) and prior recommendation; or be subject to future review by the ARC.

#### Wooden Utility Poles Adjacent to 848 Battery Street and 1025 Sansome Street

The proposal would allow the installation of a single antenna, three equipment enclosures, conduit, and a single electric meter on two individual wooden utility poles adjacent to buildings within the Northeast Waterfront Landmark District. The overall design of such facilities, as compared to City-owned steel poles, is constrained by the nature of the pole, pole ownership (Joint Pole Association), and certain State rules, known as General Orders 94 and 95.

For example, the use of a wood pole precludes routing of required cabling inside the pole. Furthermore, State rules require wider separations between the pole and the antenna; whether a top-mounted antenna or an antenna mounted on a side arm.

#### **Recommendation:**

- **3.** The Department believes the proposed design is appropriate, subject to specific conditions as follows:
  - a. All exposed pole attachments, including: extension arms, attachment brackets, equipment cabinets, antennas, antennae enclosures, and/or conduits to be painted mesa brown.
  - b. Cabling on pole to be installed in a neat and orderly condition, and without excess loops.
  - c. Remove raised signage (including filling in manufacturer logo indentations on cabinets) and equipment decals that may be visible from sidewalk and dwellings, unless required by government or electric utility regulation.
  - d. Plant and maintain an appropriate street tree.
  - e. Utilize narrowest electric meter (or line drop) allowed.
  - f. Utilize smallest RF warning signage allowed; and place the warning sticker facing out toward street, at a location as close to antenna as is feasible.
  - g. Stack equipment enclosures (not including antenna) as close as allowed by applicable regulation and manufacturer equipment standards; including vertical rotation of rectangular disconnect switches, if feasible.

- h. Not utilize any visible flashing indicator lights or similar.
- i. The Personal Wireless Service Facility not obstruct the view from or the light into any adjacent residential window.
- j. Should the installation vary from said conditions, the application shall be resubmitted to the Planning Department for further review and comment.

#### **REQUESTED ACTION**

Specifically, the Department seeks comments on:

- The compatibility of the proposed project with the Secretary of the Interior Standards and the effects it may have upon the corresponding Landmark or Conservation Districts;
- Clarification that this proposed Project falls within the delegation established by HPC Motion No. 0241;
- That the ARC continues to work with the Project Sponsor to better integrate the facility designs within historically sensitive areas;
- The project recommendations proposed by staff.

#### ATTACHMENTS

• Sample Photo Simulations and Plans.



















ARC Attachment | Joint Pole Association Pole at 1025 Sansome Street





MTAPOLY-VZW Node 113 1025 Sansome Street, San Francisco, CA Photosims Produced On 1-28-2015





ARC Attachment | Joint Pole Association Pole at 848 Battery Street





## SITE NUMBER: NW-CA-MTAPOLY-VZW NODE 10 SITE ADDRESS: ADJACENT TO 415 STOCKTON ST. (P.R.O.W.) SAN FRANCISCO, CA 94108

PROJECT DESCRIPTION	APPROVALS	PROJECT DATA	SHEET
THESE DRAWINGS DEPICT A PORTION OF A DISTRIBUTED ANTENNA SYSTEM(DAS) TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS CA, LLC, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC). EQUIPMENT TO BE INSTALLED: EXTENET TO PLACE (1)-7.5" DIA. x 24" TALL CANISTER ANTENNA, (2)-16.5"X9.8"x5.7" MRRU'S ON EXIST. (25'-4" AGL) SFPUC STEEL ST. LIGHT POLE.	THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.         PRINT_NAME       SIGNATURE       DATE         STRUCTURE OWNER       R.O.W.	APPLICANT:         ARCHITECTURAL & ENGINEERING:           23030         WARRENVILLE RD., SUITE 340         C.E.S.           USLE, IL 60532         10640 SEPULVEDA BLVD. SUITE #1           MISSION HILLS, CA 91345         MSSION HILLS, CA 91345           EXTERNAL RELATIONS/POINT OF CONTACT:         FAX:           EXTERNAL RELATIONS/POINT OF CONTACT:         FAX:           EXTERNAL RELATIONS/POINT OF CONTACT:         FAX:           EXTERNAL RELATIONS/POINT OF CONTACT:         FRAWL           PHONE:         (510) 468–3802           E-MAIL:         JEREMY HARMON           PHONE:         (510) 468–3802           E-MAIL:         JEREMY HARMON           EXTENCT SYSTEMS CA, LLC.         CONSTRUCTION MANAGER:           EXTENET SYSTEMS CA, LLC.         2678 BISHOP DR., SUITE 101           SAN RAWON, CA 94583         NAME: STEVE CA, LLC.           NAME:         SHAWNA M. WILSON-DESBOIS           PHONE:         (623) 206–1335           E-MAIL:         Sathor CA 94583           NAME:         STEVE CA 94583           NAME:         STEVE CA 91345           C.E.S.         CONTACT:           10640 SEPULVEDA BLVD. SUITE #1           MISSION HILLS, CA 91345           FAX:         (818) 898–9186	T-1 TITLE SHEET T-2 GENERAL NOT A-1 SUBSTRUCTUL A-2 ELEVATIONS D-1 EQUIPMENT D D-2 EQUIPMENT D
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### SITE NUMBER: NW-CA-MTAPOLY-VZW NODE 113 SITE ADDRESS: ADJACENT TO 1025 SANSOME ST. (P.R.O.W.) SAN FRANCISCO, CA 94133

PROJECT DESCRIPTION	APPROVALS		PROJE	CT DATA	SHEET
THESE DRAWINGS DEPICT A PORTION OF A DISTRIBUTED ANTENNA SYSTEM(DAS) TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS CA, LLC, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC). EQUIPMENT TO BE INSTALLED: PG&E CONTRACTOR TO REPLACE EXIST. (39'-0" AGL) WOOD POLE #110036648 WITH NEW 55'-0" (48'-0" AGL) CLASS (2) WOOD POLE #0029CL (HARDSET SOUTH). EXTENET TO PLACE (1) 14.6" DIA. x 24" TALL CANISTER ANTENNA AND (2) 3.20"x6.85"x1.48" HYBRID COUPLERS INSIDE NEW 38 §" ANTENNA SUPPORT ARM. PLACE (2) 16.5"x9.8"x5.7" MRRU'S ON MOUNTING/EQUIPMENT CHANNEL. PLACE (1) 24 ½"x25"x4 %" MILBANK COMMERCIAL METER BOX AND (1) 5.5"x9"x6.8" FUSED DISCONNECT SWITCH ONTO PROPOSED POLE.	THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUM AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION D HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY M PRINT_NAME SIGNATURE STRUCTURE OWNER	MENTS AND DESCRIBED THE LOCAL AY IMPOSE. DATE	APPLICANT:         EXTENET SYSTEMS CA, LLC.         3030 WARRENVILLE RD., SUITE 340         LISLE, IL 60532         EXTERMAL RELATIONS/POINT OF CONTACT:         EXTERMAL RELATIONS/POINT OF CONTACT:         EXTERMAL RELATIONS/POINT OF CONTACT:         EXTERMAL RELATIONS/POINT OF CONTACT:         PHONE: (510) 468–3802         E-MAIL: nmason.ctr@extenetsystems.com         IMPLEMENTATION MANAGER:         EXTENET SYSTEMS CA, LLC.         NAME: SHAWNA M. WILSON-DESBOIS         PHONE: (623) 206–1335         E-MAIL: sdesbois@extenetsystems.com         PROJECT MANAGER:         C.E.S.         10640 SEPULVEDA BLVD. SUITE #1         MISSION HILLS, CA 91345         PHONE: (818) 898–2352         FAX: (818) 898–9186         CONTACT: JOANNE FISHER         E-MAIL: uongen Fisher® Cobleren.com	ARCHITECTURAL & ENGINEERING: C.E.S. 10640 SEPULVEDA BLVD. SUITE #1 MISSION HILLS, CA 91345 PHONE: (818) 898–2352 FAX: (818) 898–9186 CONTACT. JEREMY HARMON E-MAIL: jeremy.harmon@cableeng.com CONSTRUCTION MANAGER: EXTENET SYSTEMS CA, LLC. 2678 BISHOP DR., SUITE 101 SAN RAMON, CA 94583 NAME: STEVE PATINO PHONE: (805) 234–1431 (MOBILE) E-MAIL: spatino.ctr@extenetsystems.com PROPERTY OWNER: CITY OF SAN FRANCISCO PUBLIC RIGHT OF WAY	T-1 TITLE SHEET T-2 GENERAL NOT A-1 SUBSTRUCTUL A-2 ELEVATIONS D-1 EQUIPMENT DI D-2 EQUIPMENT DI E-1 SITE PLAN & S E-2 PG&E POWER G-1 GROUNDING D
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TENSIONS, PVC CONDUIT, DURABLE PAINT (E.G.

DY MANNER WITHOUT

DISCONNECT SWITCH, LY FEASIBLE ON POLE.

ED BY REGULATION (E.G. ALL BE PAINTED OVER OR SENT TO BE SANDED OFF,

TREET WHEN PLACED IN IF THERE IS NO WINDOW.









![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Picture_1.jpeg)

### SITE NUMBER: NW-CA-MTAPOLY-VZW NODE 303 SITE ADDRESS: ADJACENT TO 26 HAYES ST. (P.R.O.W.) **SAN FRANCISCO, CA 94102**

PROJECT DESCRIPTION	APPROVAL	S	PROJE	ECT DATA	SHEET
THESE DRAWINGS DEPICT A PORTION OF A DISTRIBUTED ANTENNA SYSTEM(DAS) TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS CA, LLC, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC). EQUIPMENT TO BE INSTALLED: EXTENET TO PLACE $(1)-7.5^{\circ}$ DIA. x 24" TALL CANISTER ANTENNA, $(2)-16.5^{\circ}x9.8^{\circ}5.7^{\circ}$ MRRLI'S ON FXIST $(29'-9^{\circ}$ AGL) MTA STEFL	THE FOLLOWING PARTIES HEREBY APPROVE AND AC AUTHORIZE THE CONTRACTOR TO PROCEED WITH TI HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUB. BUILDING DEPARTMENT AND ANY CHANGES AND MO PRINT_NAME STRUCTURE OWNER	CCEPT THESE DOCUMENTS AND HE CONSTRUCTION DESCRIBED JECT TO REVIEW BY THE LOCAL DDIFICATIONS THEY MAY IMPOSE. SIGNATURE DATE	APPLICANT: EXTENET SYSTEMS CA, LLC. 3030 WARRENVILLE RD., SUITE 340 LISLE, IL 60532 EXTERNAL RELATIONS/POINT OF CONTACT EXTENET SYSTEMS CA, LLC. NAME: NICOLE MASON PHONE: (510) 466–3802 E-MAIL: nmason.ctr@extenetsystems.co JMPLEMENTATION MANAGER: EXTENET SYSTEMS CA, LLC.	ARCHITECTURAL & ENGINEERING: C.E.S. 10640 SEPULVEDA BLVD. SUITE #1 MISSION HILLS, c4 91345 PHONE: (818) 898-93186 CONTACT: JEREMY HARMON E-MAIL: jeremy.harmon@cableeng.com CONSTRUCTION MANAGER: EXTENET SYSTEMS CA, LLC. 2676_BISHOP_DR., SUITE 101	T-1 TITLE SHEET T-2 GENERAL NO A-1 SUBSTRUCTU
ST. LIGHT POLE.	IMPLEMENTATION MGR RF ENGINEER EXTERNAL RELATIONS CONSTRUCTION		AME: SHAWNA M. WILSON-DESBOIS PHONE: (623) 206-1335 E-MAIL: sdesbois@extenetsystems.cor <u>PROJECT MANAGER:</u> C.E.S. 10640 SEPULVEDA BLVD. SUITE <b>#1</b> MISSION HILLS, CA 91345 PHONE: (818) 898-2352 FAX: (818) 898-9186 CONTACT: JOANNE FISHER E-MAIL: Joanne.Fisher@cableeng.com	SAN RAMON, CA 94583 NAME: STEVE PATINO PHONE: (805) 234-1431 (MOBILE) =	D-1 EQUIPMENT D D-2 EQUIPMENT D
V	CINITY MAP		SITE INF	ORMATION	CODE CON
ISTRICT Ave McAllister St Fulton St Grove St Vy St Vy St HAYES VALLEY Lity St Lity St St Asian Art Mu Civit Hay Stree Coorting Coor	ISEUM (a) State C Center/UN Plaza (b) State Stove St es S NON NON NON NON NON NON NON NO	The second state of the se	LITTUDE:         37.777733 N.         LONGITUDE:         -122.416906 W.         ELEVATIONS:         TBD         ZONING:         N/A PUBLIC RIGHT OF WAY         EXISTING OCCUPANCY:         N/A         OCCUPANCY CLASSIFICATION:         N/A         MATCH EXIST. POLIE         EQUIVALENT).	JURISDICTION: CITY OF SAN FRANCISCO SQUARE FEET OF LEASE AREA: N/A N/A PUBLIC RIGHT OF WAY ASSESSORS PARCEL NUMBER: ADJACENT TO A.P.N. 0812-001 26 HAYES ST. PROPERTY LEGAL DESCRIPTION: N/A PUBLIC RIGHT OF WAY ADA COMPLIANCE: YES TYPE OF CONSTRUCTION: G.O. 128 AND 2009 AASHTO 5TH EDITION STANDARD SITE COMPLETIC ANTENNAS, MOUNTING BRACC E COLOR" USING A DURABLE	ALL WORK AND MATERIALS SHALL BE ACCORDANCE WITH THE CURRENT ED AS ADOPTED BY THE LOCAL GOVERN PLANS IS TO BE CONSTRUCTED TO I THESE CODES. 2013 CALIFORNIA BUILDING CODE 2013 CALIFORNIA BUILDING CODE 2013 CALIFORNIA ELECTRICAL CODE 2013 CALIFORNIA ELECTRICAL CODE 2013 SAN FRANCISCO CODE AMENDA 2013 SAN FRANCISCO CODE AMENDA 2013 SAN FRANCISCO BUILDING COD 2013 SAN FRANCISCO PLUMBING CO 2013 SAN FRANCISCO PLUMBING CO 2014 SAN FRANCISCO PLUMBING CO 2015 SAN FRANCISCO PLUMBING CO 2015 SAN FRANCISCO PLUMBING CO 2016 SAN FRANCISCO PLUMBING CO 2017 SAN FRANCISCO PLUMBING CO 2018 SAN FRANCISCO PLUMBING CO 2018 SAN FRANCISCO PLUMBING CO 2019 SAN FRANCISCO PLUMBING CO 2019 SAN FRANCISCO PLUMBING CO 2010 SAN FRANCISCO PLUMBING CO 2010 SAN FRANCISCO PLUMBING CO 2011 SAN FRANCISCO PLUMBING CO 2013 SAN FRANCISCO PLUMBING CO 2013 SAN FRANCISCO PLUMBING CO 2014 SAN FRANCISCO PLUMBING CO 2015 SAN FRANCISCO PLUMBING CO 2015 SAN FRANCISCO PLUMBING CO 2016 SAN FRANCISCO PLUMBING CO 2017 SAN FRANCISCO PLUMBING CO 2018 SAN FRANCISCO PLUMBING CO 2019 SAN
	States		WITHOUT EXCESS	NG (TO MATCH EXIST. POLE C CABLE LOOPS.	OLOR) TO BE INSTALLED IN
LATITUDE: 37.777733 N.	I	LONGITUDE: -122.416906 W.	(VERTICALLY) AS C	PPORT ELEMENTS: SUPPORT LOSE AS IS TECHNICALLY FEAS	F EQUIPMENT (MRRUS) TO I SIBLE ON POLE
DRIVING D	DIRECTIONS				
FROM: 2678 BISHOP DR., SUITE 101 SAN RAMON CA 94583 1. HEAD NORTHWEST TOWARD BISHOP DR. 13 FT. 2. TURN RIGHT ONTO BISHOP DR. 269 FT. 3. TAKE THE 1ST RIGHT ONTO CAMINO RAMON 0.2 MI. 4. TAKE THE 1ST RIGHT ONTO BOLLINGER CANYON RD. 0.4 MI. 5. MERGE ONTO I-680 N. VIA THE RAMP TO SACRAMENTO 10.9 I 6. TAKE THE STATE ROUTE 24 EXIT TOWARD OAKLAND/LAFAYETTE 7. MERGE ONTO CA-24 W. 2.3 MI.	10. KEEP LEFT AT THE FORK, FOLLO FRANCISCO AND MERGE ONTO I-80 11. TAKE THE EXIT TOWARD CIVIC CE 12. SLIGHT LEFT ONTO HARRISON STMI.13. TAKE THE 2ND RIGHT ONTO 9TH 1.1 MI.14. SLIGHT LEFT ONTO HAYES ST.	DW SIGNS FOR I-80 W./SAN W. PARTIAL TOLL ROAD 7.9 MI. ENTER 0.2 MI T. 0.1 MI I ST. 0.5 MI	LOGO REMOVAL NODE IDENTIFICATIO RAISED/DEPRESSED SIMILARLY REMOVE SIMILARLY REMOVE SIGNAGE: FCC I	CALL EQUIPMENT LOGOS, OTH NOF SHUTDOWN SIGNAGE) SI DOGOS/TEXT ON ERICSSON I D/FILLED.	HER THAN THOSE REQUIRED HALL BE PAINTED OVER OR MRRUS, IF PRESENT TO BE GE SHALL FACE OUT TO STI
8. TAKE THE INTERSTATE 580 W. EXIT 1.0 MI. 9. MERGE ONTO I-580 W. 0.6 MI.	TO: 26 HAYES ST., SAN FRANCISCO,	CA 94102		IN A MINDOW. SIGNAGE SHALL	TAGE TOWARD DOLDING IF

![](_page_23_Picture_4.jpeg)

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			IS	SUE DATE:	: 07-28-	14	
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			DR	AFTED BY	: C.E.S		
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			2	12-26-14	REVIS MOUNT	ED MRRU NG DETAIL	DRWFTERLJM DRWFTERLJM
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ST. LIGHT MAST	(29'-0" AGL)				$\sim$		
		♥		exte	neÌ	YOUR NETWO	RK.
					SYSTEMS	EVERYWHERD S	E.
	(23'-4" AGL)		-PRE	PARED BY:			
	(21'-4" AGL)			Cal	n ca 7 ai	nble naineeri	ina
	<b>·</b>				86	rvices	
			10	PRESCOTT 0640 Sepulveda E	COMMUI	MICATIONS IN	NC. 91345
		<b>_</b>	 	Phone No.: (818)8	398-2352	Fax No.: (818)898	-9186
	(16°-2° AGL)	€	-314	IVIF .			
SIGN	(13'-4" AGL)						
ng" sign	(11'-8" AGL)						
SIGN	(11'-7" AGL)	$\bullet$					
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![](_page_28_Picture_0.jpeg)

## SITE NUMBER: NW-CA-MTAPOLY-VZW NODE 63 SITE ADDRESS: ADJACENT TO 848 BATTERY ST. (P.R.O.W.) SAN FRANCISCO, CA 94111

		<b>.</b>				0
SCOPE OF WORK	APPROVALS			PROJECT DATA		SHEEI
THESE DRAWINGS DEPICT A PORTION OF A DISTRIBUTED ANTENNA SYSTEM(DAS) TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS CA, LLC, IN THE PUBLIC RIGHT OF WAY PURSUANT TO AUTHORITY GRANTED BY THE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC).	THE FOLLOWING PARTIES HEREBY APPROVE AND AC AUTHORIZE THE CONTRACTOR TO PROCEED WITH TH HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJ BUILDING DEPARTMENT AND ANY CHANGES AND MO	CEPT THESE DOCUMENTS AND HE CONSTRUCTION DESCRIBED LECT TO REVIEW BY THE LOCAL DIFICATIONS THEY MAY IMPOSE.	APPLICANT EXTENET S 3030 WAR LISLE, IL ( EXTERNAL	: SYSTEMS CA, LLC. RENVILLE RD., SUITE 340 60532 RELATIONS/POINT OF CONTACT:	ARCHITECTURAL & ENGINEERING: C.E.S. 10640 SEPULVEDA BLVD. SUITE #1 MISSION HILLS, CA 91345 PHONE: (818) 898-2352 FAX: (618) 898-9186	T-1 TITLE SHEET T-2 GENERAL NO
EQUIPMENT TO BE INSTALLED:	PRINT NAME	<u>SIGNATURE</u> <u>DATE</u>	EXTENET S NAME: NIC PHONE: (5	SYSTEMS CA, LLC. OLE MASON 510) 468-3802	CONTACT: JEREMY HARMON E—MAIL: jeremy.harmon@cableeng.com	A-1 SUBSTRUCT
PG&E CONTRACTOR TO REPLACE EXIST. $(47'-10" \text{ AGL})$ WOOD POLE	STRUCTURE OWNERR.O.W.		E-MAIL: nr	nason.ctr@extenetsystems.com TATION MANAGER:	CONSTRUCTION MANAGER: EXTENET SYSTEMS CA, LLC. 2678 RISHOP DR SUITE 101	D-1 EQUIPMENT
POLE #0031CL AT (SAME HOLE SET). EXTENET TO PLACE (1) 14.6" DIA. x 24" TALL CANISTER ANTENNA AND (2) 3.20"x6.85"x1.48"	IMPLEMENTATION MGR		NAME: SH	SYSTEMS CA, LLC. AWNA M. WILSON-DESBOIS 323) 206-1335	SAN RAMON, CA 94583 NAME: STEVE PATINO PHONE: (805) 234-1431 (MOBILE)	D-2 EQUIPMENT
HYBRID COUPLERS INSIDE NEW 38 8" ANTENNA SUPPORT ARM. PLACE (2) 16.5"x9.8"x5.7" MRRU'S ON MOUNTING/EQUIPMENT	RF ENGINEER		E-MAIL: S	desbois@extenetsystems.com MANAGER:	E-MAIL: spatino.ctr@extenetsystems.com	E-1 SILE PLAN &
CHANNEL. PLACE (1) 24 <sup>3</sup> / <sub>4</sub> "x25"x4 <sup>4</sup> / <sub>8</sub> " MILBANK COMMERCIAL METER BOX AND (1) 5.5"X9"X6.8" FUSED DISCONNECT SWITCH ONTO BRODGED POLE	EXTERNAL RELATIONS		C.E.S. 10640 SEI MISSION H	PULVEDA BLVD. SUITE #1 IILLS, CA 91345	PROPERTY OWNER: CITY OF SAN FRANCISCO PUBLIC RIGHT OF WAY	G-1 GROUNDING
FROFOSED FOLE.			FAX: ( CONTACT: E-MAIL: Jo	818) 898-2352 818) 898-9186 JOANNE FISHER panne.Fisher@cableeng.com		
VI				SITE INFO	RMATION	CODE CO
	P				JURISDICTION:	ALL WORK AND MATERIALS SHALL E ACCORDANCE WITH THE CURRENT E
eno st	atter		37.799467 LONGITUDE	75503236 N. E:	CITY OF SAN FRANCISCO SQUARE FEET OF LEASE AREA: N/A	AS ADOPTED BY THE LOCAL GOVER PLANS IS TO BE CONSTRUCTED TO THESE CODES.
Union St	Y St		-122.401 ELEVATION	151955127 W. S:	N/A PUBLIC RIGHT OF WAY ASSESSORS PARCEL NUMBER:	2013 CALIFORNIA CODES 2013 CALIFORNIA BUILDING CODE 2013 CALIFORNIA ELECTRICAL CODE
nne Sast	Green St				ADJACENI IO A.P.N 0141-002 848 BATTERY ST. PROPERTY LEGAL DESCRIPTION:	2013 CALIFORNIA MECHANICAL CODI 2013 GREEN BUILDING CODE 2010 CALIFORNIA ENERGY CODE
s St	5		N/A PUBL	IC RIGHT OF WAY OCCUPANCY:	N/A PUBLIC RIGHT OF WAY ADA COMPLIANCE:	2013 SAN FRANCISCO CODE AMENE 2013 SAN FRANCISCO BUILDING CO 2013 SAN FRANCISCO ELECTRICAL
Green St	T ST T		N/A OCCUPANO	CY CLASSIFICATION:	YES TYPE OF CONSTRUCTION:	2013 SAN FRANCISCO MECHANICAL 2013 SAN FRANCISCO PLUMBING C 2013 SAN FRANCISCO GREEN BUILL
Biu -	Vallej Ot av.	oterT	N/A		G.O. 95 & G.O. 128	2013 SAN FRANCISCO HOUSING CO
SITE LOCATION-	\$	San Fr			SITE COMPLETIC	ON CHECKLIST
Vallejo St 2 (NW-CA-MTAPOLY	-vzw NODE 63)	В	•			
Proadway St	Biot	Pier 3 (		METER, AND RADIO I	ANTENNAS, MOUNTING/STANE RELAY UNITS TO BE PAINTED	OFF BRACKETS, POLE EXT "MESA BROWN" USING A
A	Fron			SHERWIN WILLIAMS,	FRAZEE OR EQUIVALENT).	
North Pacific Ave	E C C			CABLING: CABLING EXCESS CABLE LOOF	G (MESA BROWN IN COLOR) PS.	TO BE INSTALLED IN A TIL
LATITUDE: 37.7994675503236 N.	LONGIT	UDE: -122.401151955127 W.		SPACING OF SUPP	ORT ELEMENTS: SUPPORT	EQUIPMENT (E.G. METER,
	DIRECTIONS		-	AND MRRUS) TO BE	CLUSTERED (VERTICALLY) AS	S CLOSE AS IS TECHNICAL
FROM: 2678 BISHOP DR, SUITE 101 SAN RAMON CA 94583				LOGO REMOVAL:	ALL EQUIPMENT LOGOS, OTH	ER THAN THOSE REQUIRED
1. HEAD NORTHWEST TOWARD BISHOP DR. 13 FT. 2. TURN RIGHT ONTO BISHOP DR. 269 FT. 3. TAKE THE 1ST RIGHT ONTO CAMINO RAMON 0.2 MI. 4. TAKE THE 1ST RIGHT ONTO BOLLINGER CANYON RD . 0.4 MI. 5. MERGE ONTO I-680 N. VIA THE RAMP TO SACRAMENTO 10.9 MI.	10. KEEP LEFT AT THE FORK, FOLLOW SIG AND MERGE ONTO I-BO W. PARTIAL TOLL 11. EXIT ONTO FREMONT ST. 0.8 MI. 12. CONTINUE ONTO FRONT ST. 0.1 MI. 13. TURN LEFT ONTO CALIFORNIA ST. 0.1	NS FOR I-80 W/SAN FRANCISCO ROAD 6.9 MI. MI.		NODE IDENTIFICATION REMOVED. RAISED/DI OR SIMILARLY REMOV	OF SHUTDOWN SIGNAGE) O EPRESSED LOGOS/TEXT ON I /ED/FILLED.	R PG&E REGULATIONS SHA ERICSSON MRRUS, IF PRES
<ol> <li>IAKE THE STATE ROUTE 24 EXIT TOWARD OAKLAND/LAFAYETTE 1.</li> <li>MERGE ONTO CA-24 W. 12.3 MI.</li> <li>TAKE THE INTERSTATE 580 W. EXIT 1.0 MI.</li> <li>MERGE ONTO I-580 W. 0.5 MI.</li> </ol>	1 MI. 14. IUKN KIGHI ONTO SANSOME ST. 0.4 I 15. TURN RIGHT ONTO VALLEJO ST. 341 F 16. TAKE THE 2ND RIGHT ONTO BATTERY S DESTINATION WILL BE ON THE LEFT S	иі. Т. 5Т. 22 FT.		<b>SIGNAGE:</b> FCC MA FRONT OF, OR NEAR	NDATED RF WARNING SIGNAC A WINDOW. SIGNAGE SHALL	E SHALL FACE OUT TO S FACE TOWARD BUILDING I
	TO: 848 BATTERY ST., SAN FRANCISCO, CA	94111				

	ISSUE DATE: 04-09-14
	ENGINEERED BY: C.E.S.
	DRAFTED BY: C.E.S.
	NO. DATE: DESCRIPTION: BY
	1 12-05-14 ADDED GROUNDING
	2 12-18-14 LATS. AND LONGS.
	3 12-29-14 UPDATED MRRU MOUNTING DETAIL
	4 01-20-15 REVISED TO ANTENNA SC V SUPPORT ARM SUPPORT ARM
	5 01-22-15 ADDED COAXIAL CONDUIT NOTE
	6 01-23-15 UPDATED ANTENNA CONTRACT SUPPORT ARM DETAIL PER SP
	PROPRIETARY INFORMATION THE INFORMATION CONTAINED IN THIS SET O DOCUMENTS IS PROPRIETARY BY NATURE. AN USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO EXTEMENT IS STRICTLY
	PROHIBITED.
T OTES & SYMBOLOGY FURE SITE PLAN S DETAILS	EXTERNET YOUR NETWORK. SYSTEMS
DETAILS SINGLE LINE R DESIGN DETAILS	PREPARED BY: CCCSS cable engineering envices PRESCOTT COMMUNICATIONS INC. 10640 Sepulveda Blvd. Suite 1, Mission Hills, CA 91345 Phone No.: (8191908, 2352, Cor. No.: (819808, 0166
OMPLIANCE	-STAMP:
L BE PERFORMED AND INSTALLED IN T EDITIONS OF THE FOLLOWING CODES VERNING AUTHORITIES, NOTHING IN THESE TO PERMIT WORK NOT CONFORMING TO	
E JDE ODE	
ENDMENTS CODE AMENDMENTS AL CODE AMENDMENTS SAL CODE AMENDMENTS S CODE AMENDMENTS JILDING CODE AMENDMENTS CODE	-SITE NUMBER:
	NW-CA-MTAPOLY-VZW NODE 63
XTENSIONS, PVC CONDUIT, A DURABLE PAINT (E.G.	-LOCATION: ADJACENT TO 848 BATTERY ST. SAN FRANCISCO, CA 94111
TIDY MANNER WITHOUT	FILBERT/EMBARCADERO (FILBERT/EMBARCADERO SYSTEM
R, DISCONNECT SWITCH, ALLY FEASIBLE ON POLE.	-APPL TYPE:
RED BY REGULATION (E.G. HALL BE PAINTED OVER OR RESENT TO BE SANDED OFF,	TITLE SHEET
STREET WHEN PLACED IN F THERE IS NO WINDOW.	

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

	ISSUE DATE: 04-09-14
	ENGINEERED BY: C.E.S.
	DRAFTED BY: C.E.S.
	NO. DATE:   DESCRIPTION: BY:
	1 12-05-14 ADDED GROUNDING
	2 12-18-14 UPDATED UPDATED EXAMPLE AND LONGS. Contractions of the second
(47'-10" AGL)	3 12-29-14 UPDATED MRRU MOUNTING DETAIL S RS
TOUTS (45'−0" AGL)	4 01-20-15 REVISED TO ANTENNA SUPPORT ARM
	5 01-22-15 ADDED COAXIAL CONDUIT NOTE RS
	6 01-23-15 UPDATED ANTENNA WYTER SUPPORT ARM SUPPORT ARM SUPPORT ARM STATES
PORT ARMS <u>AERS (47'-0" AGL)</u>	PROPRIETARY INFORMATION THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO EXTENET IS STRICTLY PROHIBITED.
DOUBLE ARMS (30'-6" AGL)	PREPARED BY:
IINAIRE (26'-0" AGL)	<b>Ces</b> cable engineering services
1T BOLT (24'-4" AGL)	PRESCOTT COMMUNICATIONS INC. 10640 Sepulveda Blvd. Suite 1, Mission Hills. CA 91345
(23'-3" AGL)	Phone No.: (818)898-2352 Fax No.: (818)898-9186
ARD ARMS (22'-3" AGL)	
TION (22'-0" AGL)	
` <b>`</b>	-SITE NUMBER:
	NW-CA-MTAPOLY-VZW NODE 63
	ADJACENT TO 848 BATTERY ST. SAN FRANCISCO, CA 94111 -HUB LOCATION:
	FILBERT/EMBARCADERO (FILBERT/EMBARCADERO SYSTEM)
VIEW SOUTH	90% PERMIT REVIEW
	ELEVATIONS
GRAPHIC SCALE 3 0 1.5 3 FEET	

![](_page_31_Figure_0.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_33_Picture_0.jpeg)

## For Reference Only

Interim design without shrouding below antenna.

![](_page_34_Picture_0.jpeg)

For Reference Only

**Prior Mockup with:** 

1. Previous antenna shroud.

2. Previous cabling examples below RRUs (midway down pole).

![](_page_35_Figure_0.jpeg)

DRAFT Concept Map of Verizon Wireless DAS proposed on existing steel light and transit poles. Map also includes 2 DAS locations on wooden utility poles in NE Waterfront District. Map does not include approximately 65 DAS locations for Verizon Wireless, on wooden streetlight and wooden utility poles within

SOMA and areas north of Market Street and generally east of Van Ness Avenue.