Atijera, Evamarie (CPC)

3 LOP'S WITHDRAWN

From:

Lindsay, Ashley (CPC)

Sent:

Thursday, July 06, 2017 1:01 PM

To:

Tony Phillips

Cc:

Matthew Nickel; Steve Barich; Atijera, Evamarie (CPC)

Subject:

RE: Request to Withdraw Comcast LOD's - San Francisco

Hi Tony,

No worries, thank you for the withdrawal confirmation.

Kind regards,

Ashley Lindsay

Current Planning + Wireless Specialist

Planning Department, City and County of San Francisco 1650 Mission Street, Suite 400, San Francisco, CA 94103 Email: <u>Ashley.Lindsay@sfgov.org</u> Direct: 415-575-9178

Placinis Information Center (PIC): 415 559.6317 or pictosiany.org Property Information Map (PIA): http://propertysiago.siptembia.org

From: Tony Phillips [mailto:Tony.Phillips@sacw.com]

Sent: Thursday, July 06, 2017 11:25 AM

To: Lindsay, Ashley (CPC)

Cc: Matthew Nickel; Steve Barich

Subject: Request to Withdraw Comcast LOD's - San Francisco

Good Afternoon Ashlev-

I apologize for not getting back to you on this sooner. I was waiting for our client to "Officially" approve the withdrawal.

Please let this e-mail serve as our request to withdraw the (3) LOD applications listed below.

Thanks again for all your help.

- 1900 Market Street R # 2017 007829 ZAD
- 2001 Van Ness
- R # 2017 007830 ZAD
- 2599 San Bruno.
- R # 2017-007832 ZAD

Tony Phillips

Tony Phillips | Zoning & Permitting | Mobile: 847-331-3659 **SAC Wireless |** 540 W. Madison, 17th Floor, Chicago, IL 60661

tony.phillips@sacw.com

From: Lindsay, Ashley (CPC) [mailto:ashley.lindsay@sfgov.org]

Sent: Thursday, July 06, 2017 11:34 AM

To: Tony Phillips < Tony.Phillips@sacw.com>

Subject: Request to Withdraw LODs

Good morning Tony,



June 12, 2017

R#2017-007830ZAD CK # 60904 \$ 664, -A. LINDSAY (WIRELESS)

Mr. Scott Sanchez Zoning Administrator San Francisco Planning Department 1650 Mission Street, Suite 400 San Francisco, CA 94103

RE: Letter of Determination Request - Comcast Machine Q - 2001 Van Ness Ave.

(0594/002)

Dear Mr. Sanchez;

My firm is representing Comcast for the Leasing, Permitting and Installation of their latest technology called Machine Q. Machine Q is a low power network that is part of the Internet of Things (IoT). From Smart Communities and Infrastructure where Utilities, Waste Management, Temperature and Lighting can be monitored, to Transportation and Logistics. Machine Q is a flexible cost-effective solution suitable for a wide range of applications targeted towards Municipalities and Utilities.

We are currently seeking approval for the installation of Machine Q antennas on the existing Billboard at 2001 Van Ness Ave. - Block 0594 Lot 002 – Planning District 2 – Zoning RC-4.

The installation consists of 2-28" Omni Antennas, an 8" LTE Antenna, a 3" GPS antenna and a small Gateway Unit. This is all powered by a Unit Called PoE (Power over Ethernet). The Total weight of these items without mounting brackets is less than 12lbs. There will be no ground disturbance and minimal visual Impact. I've attached a copy of the proposed drawings, photo simulations, and spec sheets.

Hard copies of these documents along with a check for \$664.00 will be overnighted to your department.

We greatly appreciate you taking the time to review our request. I can be reached at 847-331-3659 should you have any questions.

Best Regards)

Tony Phillips
Zoning & Permitting Lead

SAC Wireless for Comcast 540 W. Madison – 17th Floor

Chicago, IL 60661

847-331-3659

tony.phillips@sacw.com



TEKTELIC's KONA Macro IoT Gateway provides network operators with a carrier grade product for the deployment of LoRaWAN Internet of Things networks. The Gateway enables massive scalability in a compact form factor by supporting up to 12 million messages per day.

It is ideal for public and private network operators that require Full Duplex, mulitiple Rx and Tx Channels, cost effective and reliable LoRaWAN gateways to maximise their network investment for years to come.

Product Differentiators:

- High availability carrier grade design with support of in-service configuration and software updates.
- Environmentally hardended aluminum enclosure fully tested to withstand extreme temperature conditions.
- Full duplex operation making all receive and transmit channels availabe simultaniously.
- Excellent isolation between the Tx and Rx bands as well as out of band rejection of Cellular and Paging networks.
- Day-One scalability with support of up to 12 million received messages per day.
- Easy to deploy supporting different backhaul and power options.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

Key Features

NA, EU and other ISM Bands

Full Duplex 72 Rx and 4 Tx Channels (NA)

Up to 12 million messages per day

Precise Network Synchronization (GPS)

Localization Support

1 Watt (30 dBm) Tx Power

Hardened Carrier Grade Enclosure

Backhaul Connectivity (ETH / 3G / 4G)



KONA Macro IoT Gateway

High Capacity LoRaWAN Gateway for Widea Area Deployments

Technical and Functional System Specifications

Mechanical Parameters	
MTBF	15 years
DC POwer Consumption	< 40 W (POE++)
Operational Temperature	-40°C to +55°C
Operational Humidity	10% to 100% Condensing
Ingress Protection	IP67
Size	222 x 265 x 97 mm
Weight	4 kg
Volume	5.5 L

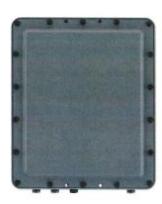
and the second s		
Interfaces		
Ethernet Backhaul	RJ-45 (POE Capable)	
GPS	N-Type	
Cellular Backhaul (3G/4G)	N-Type (Optional)	
Hybrid Optical and DC Power	Harting Hybrid (Optional)	
LoRa Antenna (2 ports)	N-Type (2nd Port Optional)	
Power	-48VDC	
Regulatory Compliance		
Safety	UL 60950-1 (US/C), IEC 60950-1 (CE)	
Environmental	ETSI EN 300 019-2-1, 300 019-2-2	
	ETSI EN 300 019-2-3, 300 019-2-4	
Regulatory	FCC Part 15	
	FTSI FN 300 489-1/4 FTSI FN 302 326	

902 - 915 MHz (Rx)
923 - 928 MHz (Tx)
2 x 1W (2 x 30 dBm)
-142 dBm (SF12, 293 bits/sec)
4 dB
-10 dBm
70 dB Analog, 100+ dB Digital
75 dB

Software and Manag	ement
GUI	Embedded Managment Webpage
	Auto-discoverable over IP
Tools	Access Control List managment
	3G/4G Parameter Configuration
	System Health Monitor
	Flight Recorder
	Radio Configuration and Control
	Remote Software Upgrade
	Active and Passive image management
Networking	DHCPv4 client
	TFTP server
	HTTP server
	Firewall and Access Lists







Specifications subject to change without notice.

At TEKTELIC Communications we develop and build high performance wireless products including Small Cell Base Stations, Wireless Backhaul Systems, High Power Radios, Amplifiers and IOT Gateways.

For more information please visit www.tektelic.com







7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt

- Rugged and durable UHF colinear antenna designed for Telemetry, Paging and Trunked Radio applications
- Housed inside a a high-strength glass fibre shroud
- Includes an integrated mounting clamp allowing easy installation on poles or horizontal rails
- Robust antenna design insures reliable operation in harsh environmental conditions

Ordering Options

Replace "xxx" in the model number with one of the options below to signify the desired frequency band

	Model Number	Frequency Band	
Model Number Options (xxx)	7553865	840-890 MHz	
	7553893	860-925 MHz	
Electrical Characteristics			
Frequency Band	See Options Listed Above		
Polarization	Ven	tical	
Horizontal Beamwidth	360°		
Vertical Beamwidth	35°		
Gain	3.0 dBd (5.1 dBi)		
Impedance	50Ω		
VSWR	< 1.5:1		
Power Rating	150 W		
Connector Type	N Female + 0.5 m RG213 cable		
Lightning Protection	DC Gro	bunded	
Mechanical Characteristics			
Shroud Material / Color	Glass Fibre (Ø	21mm) / White	
Mounting Section Material	Alum	inlum	
Dimensions (Length)	730 mm	28.7 in	
Weight without Mounting Brackets	0.5 kg	1.1 lb	
Wind Load @ 160 km/hr (100 mph)	35 N	7.9 lb	
Mounting Options			
Mounting Bracket Kit	Integral mounting clamp and V	bolts for pipe or horizontal rail	
Fits Pipe/Rail Diameter	38-50 mm	1.5-2.0 in	

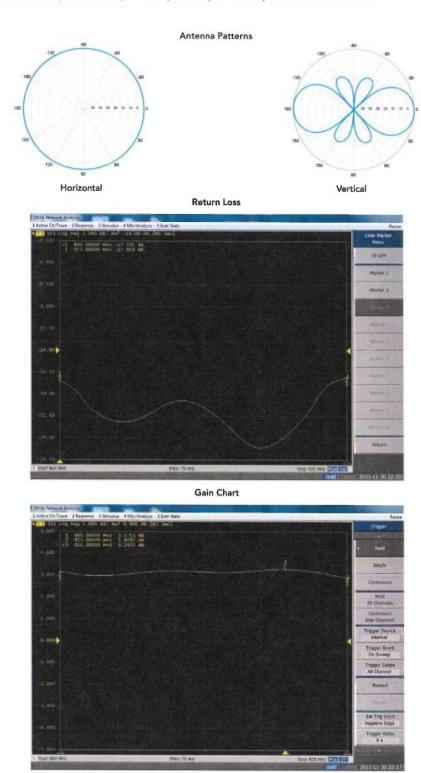


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.



7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt



Note: Return loss, gain and patterns are for the 860-925 MHz model

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7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt

Assembly & Mountin	g instructions				
Please read these inst	ructions fully before c	ommencing			
Tools Required 13 mm A/F Spanner					
Mounting (see mounting variation	ons section)	Securely fix mast clamp to vertical or horizontal mounting rail as required. Tighten fixings to required torque (M8 = 20Nm). Ensure adequate lightning protection. Envelope is provided by installation.			
Ensure connector is clean at Cover with plastic sleeve an Ensure cable routing is not a Cable minimum bend radiu					
Maintenance					
Annual VSWR and visi	ual inspection for loos	e or missing parts should en	sure stated performance is maintained.		
Mounting Variations					
Standard Mounting (Included)	GRP PURE WHITE (RAL 9010) UNIVERSAL MAST CLAMP		Vertical Mounting Tube (Connector passes through middle of tube)	Horizontal Mounting Tube	
	O.Sm DOWNLEAD PLASTIC SLEEVE N TYPE CONNECTOR	STAINLESS STEEL MB V BOLTS C/W NUTS & WASHERS			
	Parts	Identification	Deck Mounting (With connector passing to below deck)	Deck Mounting (With connector remaining above deck)	

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 $7553xxx \\ Single Band \mid Omni-Directional \mid Colinear \mid V-Pol \mid 360^{\circ} \mid 5.1 \ dBi \mid Fixed \ Electrical \ Tilt$

Mounting Variations Model Number		Orientation	n Assembly			
		Horizontal			000	
Optional Mounting Arrangement (ordered separately)	Vertical					
			Item Number	Description	Quantity	
			1	Mounting Bracket Clamp	2	
			2	Universal V & H Bracket	1	
			3	V Clamp	2	
		Parts List	4	Galvanized, M10 Full Nut	24	
			5	Galvanized, M10 Plain Washer	16	
			6	Galvanized, M10 S/Coil Spring Washer	4	
			7	C-1		
			,	Galvanized, M10 x 260 mm Studding	4	

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

VICINITY MAP

PHOTOSIMULATION VIEWPOINTS

Franklin S



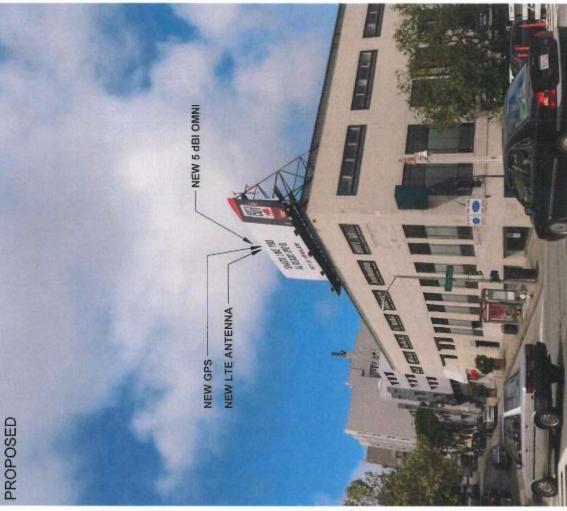
DISCLAIMER:

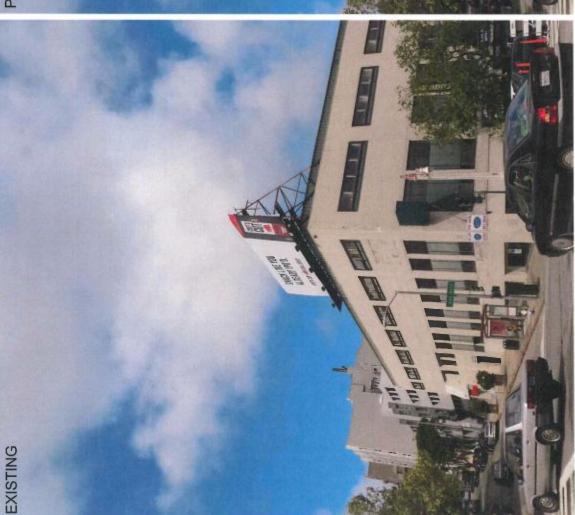
THIS PHOTOSIMULATION IS INTENDED AS A GRAPHICAL REPRESENTATION OF EXISTING AND PROPOSED SITE CONDITIONS BASED ON THE PROJECT / DRAWING PLANS. IT IS NOT INTENDED FOR CONSTRUCTION. ACTUAL, FINAL CONSTRUCTION MAY VARY



PHOTOSIMULATION VIEW 1







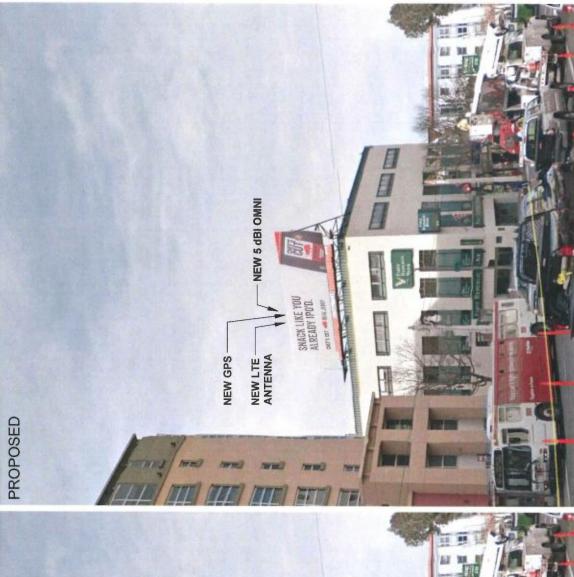








machine A







EXISTING



A COMCAST SERVICE

PROJECT NAME: SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE

COMCAST NUMBER: SFO-CA-M-N-0000006-K16 OUTFRONTBB NUMBER: 01121.000730.000730A

> 2001 VAN NESS AVENUE SAN FRANCISCO, CA 94109

PROJECT TEAM

PROJECT MANAGEMENT: SAC WIRELESS

MATTHEW NICKEL 540 W. MADISON ST, 16TH FLOOR CHICAGO, ILLINOIS 60661

ARCHITECT:

SAC WIRELESS NESTOR POPOWYCH, A.I.A. 540 W. MADISON ST, 16TH FLOOR CHICAGO, ILLINOIS 60661

CONSTRUCTION: SAC WIRELESS

SITE ACQUISITION:

CHICAGO, ILLINOIS 60661

STEVE BARICH 540 W. MADISON ST, 16TH FLOOR

(312) 967-4285 steve.barich@sacw.com

SAC WIRELESS

TERRY KILLGORE 1401 WILLOW PASS, SUITE 350 CONCORD, CA 94519 (904) 923-9028

terry.killgore@sacw.com

nestor.popowych@sacw.com

ENGINEER:

SAC WIRELESS 5015 SHOREHAM PLACE SUITE 150

SAN DIEGO, CA 92122 PHONE: (619) 736-3766 X114

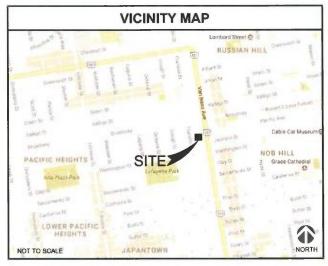
GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

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

DISCLAIMER

THESE DRAWINGS REPRESENT AN EXISTING TELECOMMUNICATIONS COMPOUND AND WERE PRODUCED WITHOUT THE BENEFIT OF A LAND SURVEY, ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION, SAC WIRELESS DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS AND SETBACKS.



DRIVING DIRECTIONS

FROM: SAN FRANCISCO INTERNATIONAL AIRPORT

- GET ON US-101 N FROM AIRPORT
- ACCESS RD
- HEAD SOUTH CONTINUE ONTO AIRPORT ACCESS
- 4 KEEP LEFT TO STAY ON AIRPORT ACCESS RD
- MAKE A U-TURN CONTINUE STRAIGHT TO STAY ON
- AIRPORT ACCESS RD USE THE 2ND FROM THE RIGHT AND CONTINUE TOWARD US-101 N
- TO: 2001 VAN NESS AVENUE SAN FRANCISCO, CA 94109
- KEEP LEET AT THE FORK FOLLOW SIGNS FOR SAN BRUNO/U.S. 101 N AND MERGE ONTO US-101 N
- SAN FRANCISCO MERGE ONTO US-101 N
- 12. TAKE FRANKLIN ST TO VAN NESS
- 13. TURN RIGHT ONTO MARKET ST 14. TURN RIGHT ONTO PACIFIC AVE
- 15. TURN RIGHT AT THE 1ST CROSS STREET ONTO VAN NESS AVE

THIS PROJECT IS A COMCAST FACILITY. IT CONSISTS OF THE FOLLOWING

PROJECT DESCRIPTION

- (2) NEW COMCAST 54BLOMNI ANTENNAS
- (1) NEW COMCAST GPS ANTENNA
- . (1) NEW COMCAST GROUND BAR

(1) NEW COMCAST LTE OMNI ANTENNA

- (1) NEW COMCAST OUTDOOR POE INJECTOR

PROJECT SUMMARY

APPLICANT/LESSEE machine

COMCAST CENTER PHILADELPHIA, PA 19103

ASSESSOR'S PARCEL NUMBER:

PLANING DICSTRIC 2

APPLICANT'S REPRESENTATIVE:

SAC WIRELESS 540 W. MADISON ST, 16TH FLOOR CHICAGO, ILLINOIS 6066

PROPERTY OWNER: **OUTFRONTBB** OWNER: 405 LEXINGTON AVENUE, 14TH FLOOR

CONTACT: RANDY GAYER

RGAYER@DIAMONDCOMM.COM

PROPERTY INFORMATION:

SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE SFO-CA-M-N-0000006-K16 COMCAST NUMBER

OUTERONTBB NUMBER: 01121.000730.000730A 2001 VAN NESS AVENUE SAN FRANCISCO, CA 94109

GEODETIC COORDINATES:

-122,423337° W (NAD83)

CONSTRUCTION INFORMATION:

AREA OF CONSTRUCTION: JURISDICTION: SAN FRANCISCO TYPE OF CONSTRUCTION: ALTERATION

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE ALL WORK HIS MAILEMALS SHALL BE FEAT ON THE AND ALLED IN ACCORDANCE HIM INCURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL CONFORM TO 2013 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2016 CALIFORNIA ADMINISTRATIVE CODE 3. 2016 CALIFORNIA ELECTRICAL CODE

BILLBOARD OWNER:

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	1.
T-2	GENERAL NOTES & SPECIFICATIONS	1
A-1	SITE PLAN	1
A-2	ENLARGED SITE PLAN & ANTENNA & EQUIPMENT PLAN	1
A-3	EAST & SOUTH ELEVATIONS	1
A-4	EQUIPMENT DETAILS & SPECIFICATIONS	1
A-4.1	EQUIPMENT DETAILS & SPECIFICATIONS	1
E-1	1-LINE DIAGRAM & NOTES	1
G-1	SCHEMATIC GROUNDING PLAN & DETAILS	1

Know what's below.

Call before you dig.

05/08/17 90% CONSTRUCTION E 0 05/11/17 100% CONSTRUCTION CM 05/17/17 100% CONSTRUCTION AS PROPRIETARY INFORMATION

CALL 811

WWW.CALL811.COM CONTRACTOR TO CALLTO

ISSUE STATUS

JFK BLVD,



COMCAST NUMBER: SFO-CA-M-N-0000006-K16 OUTFRONTBB: 01121.000730.000730A

SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE

SHEET TITLE:

TITLE SHEET

T-1

GENERAL NOTES:

- THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312. AND SECTION 307.1.1 EXCEPTION #91.
- 2. THIS FACILITY IS EXEMPT FROM ACCESIBILITY REQUIREMENTS PER 2016 CBC SECTION
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT / ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- 4. THE CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
- EXISTING SURFACES STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS THE CONTRACTOR SHALL FORWARD THE AS-BUILT WIREDLINED DRAWINGS TO THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE
- SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN
- WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT, CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL
- 15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE, DRAWINGS ARE NOT TO BE SCALED
- 16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, ANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- 17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES
- FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- IMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWIS
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY
- 24. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

SPECIFICATIONS:

METALS

STRUCTURAL FRAMING SYSTEM AND EQUIPMENT

- CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR
- 2. ALL UNISTRUT SHALL BE P1000 (1-5/8").
- 3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
- 4. CABLE RUNS ON ROOF TOP AND OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- ALL ANTENNA SPECS, PER RF DATA SHEET.

FLECTRICAL.

- 1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
- ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
- ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET, ALL CONNECTIONS TO BE DOUBLE LUG.
- BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT AND IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REPOUTING OF EXISTING LINES IS NECESSARY

DESCRIPTION A 05/08/17 90% CONSTRUCTION 0 05/11/17 100% CONSTRUCTION CM 1 05/17/17 100% CONSTRUCTION

ISSUE STATUS



5015 SHOREHAM PLACE, STE. 150 SAN DIEGO, CA 92122 619.736.3766

PROPRIETARY INFORMATION S IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

191

CAST

COM BLVD,

ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED





SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE PROJECT NAME:

ACAST NUMBER: SFO-CA-M-N-0000006-K'OUTFRONTBB: 01121.000730.000730A MCAST NUMBER:

2001 SAN F

SHEET TITLE:

GENERAL NOTES & SPECIFICATIONS

T-2

1

- 11B-203.5 THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE
- 9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- 10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C.
- 11. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS
- WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE, TEMPORARY SHORING OR BRACING SHALL BE PROVIDED
- 13. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS, HE IS SOLELY RESPONSIBLE FOR ALI CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS,
- 18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN
- 19. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A
- 20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- 21. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO
- 22. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT, PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.

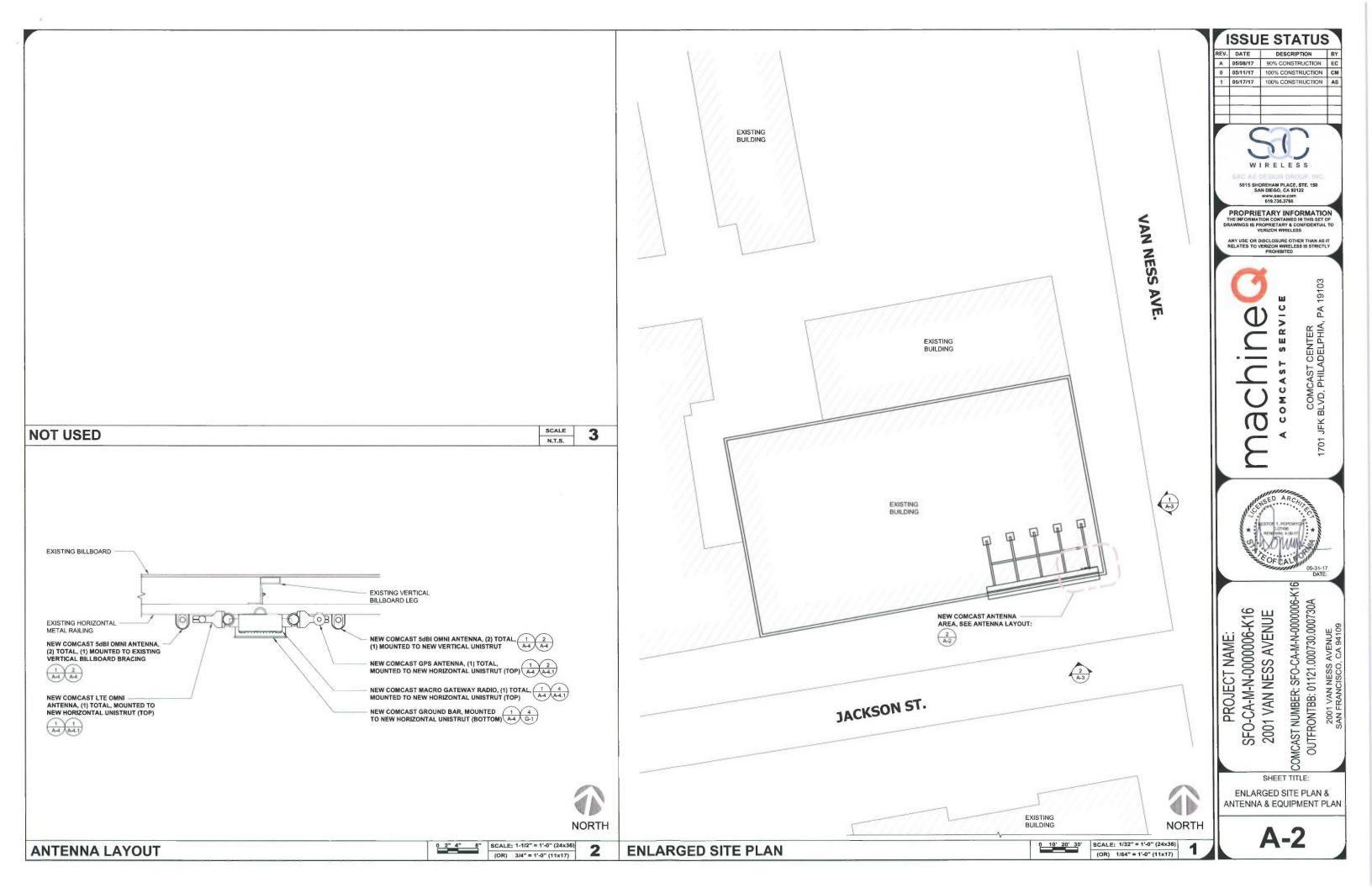


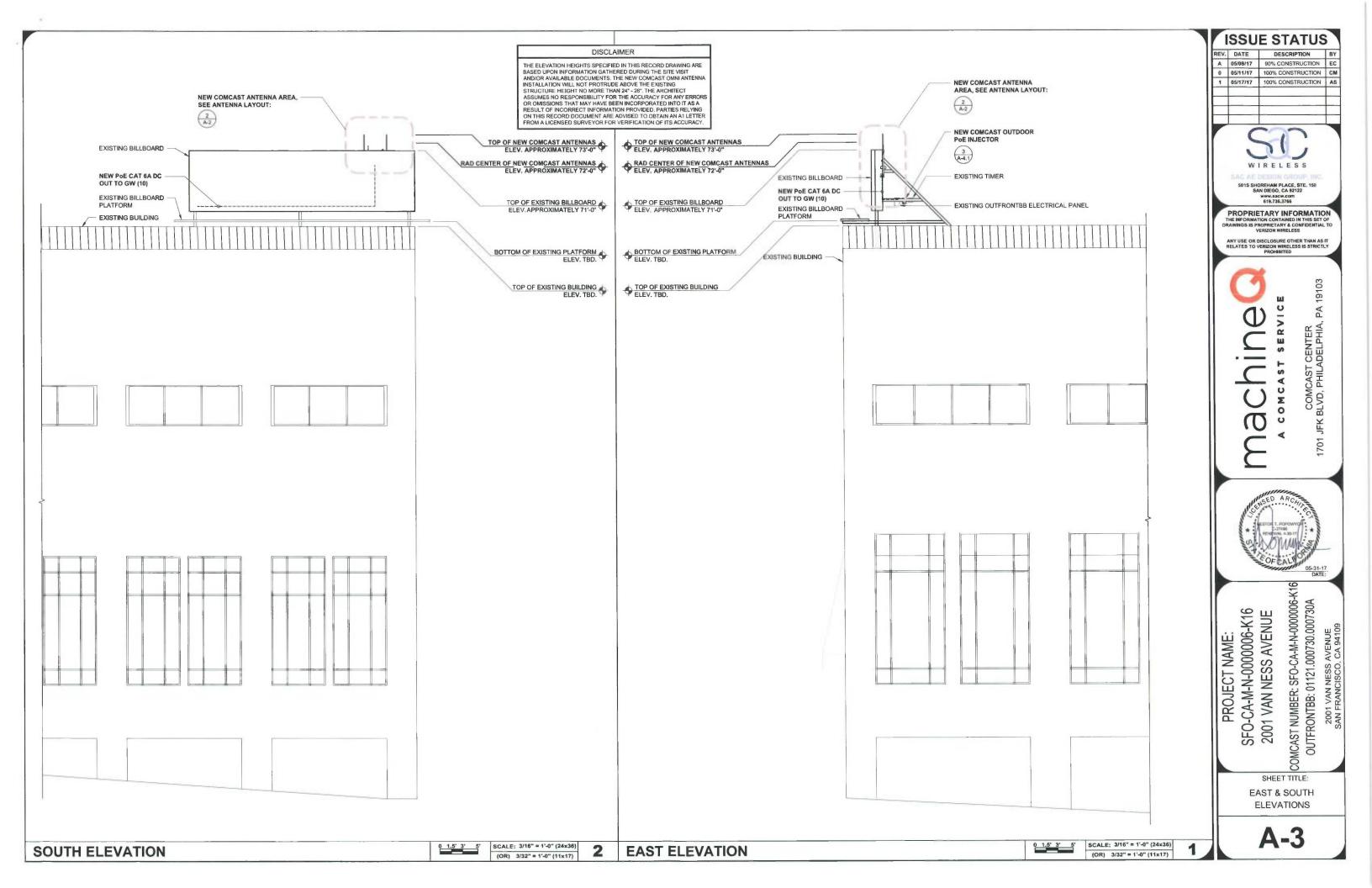
SITE PLAN

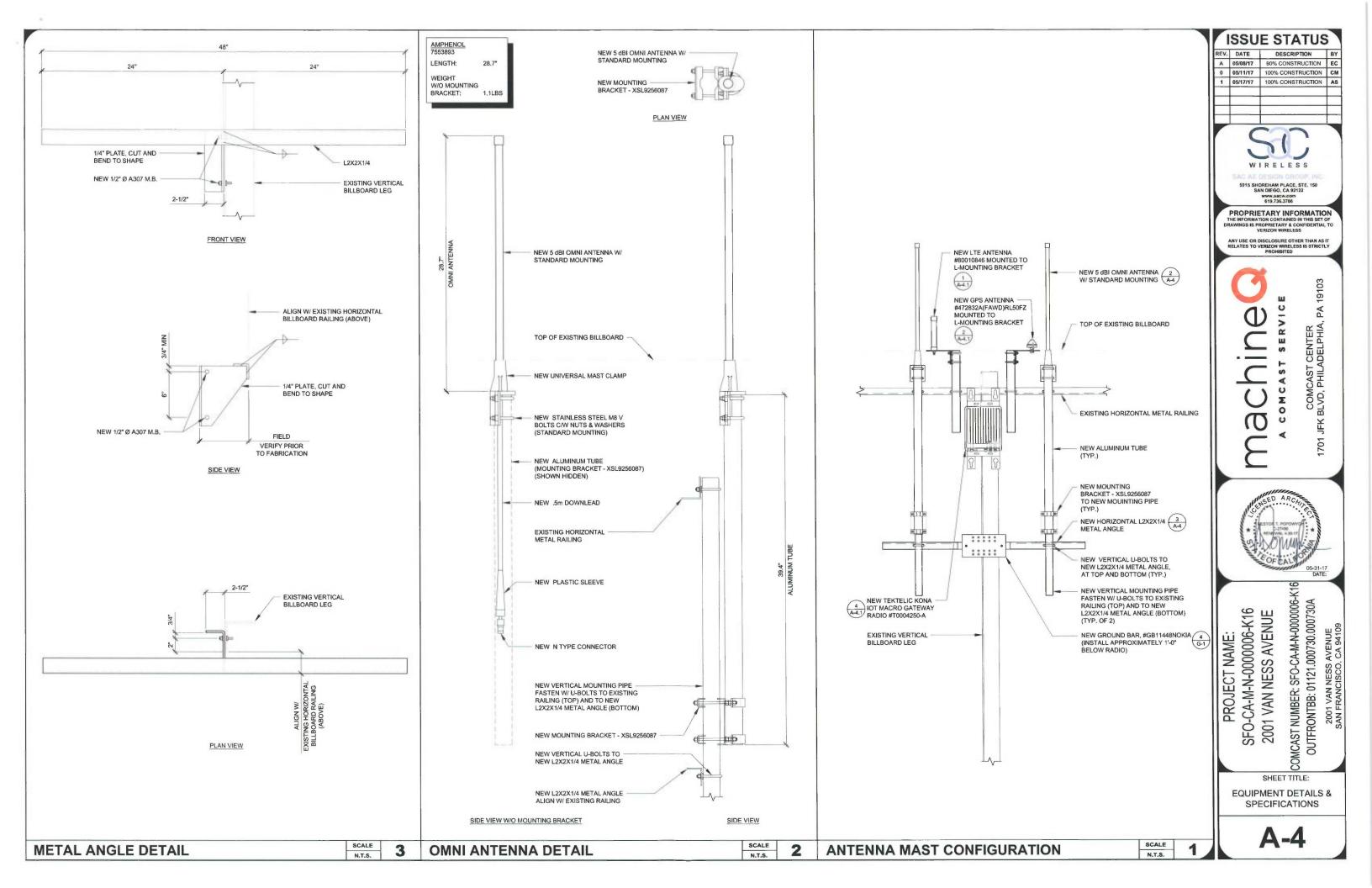
ISSUE STATUS

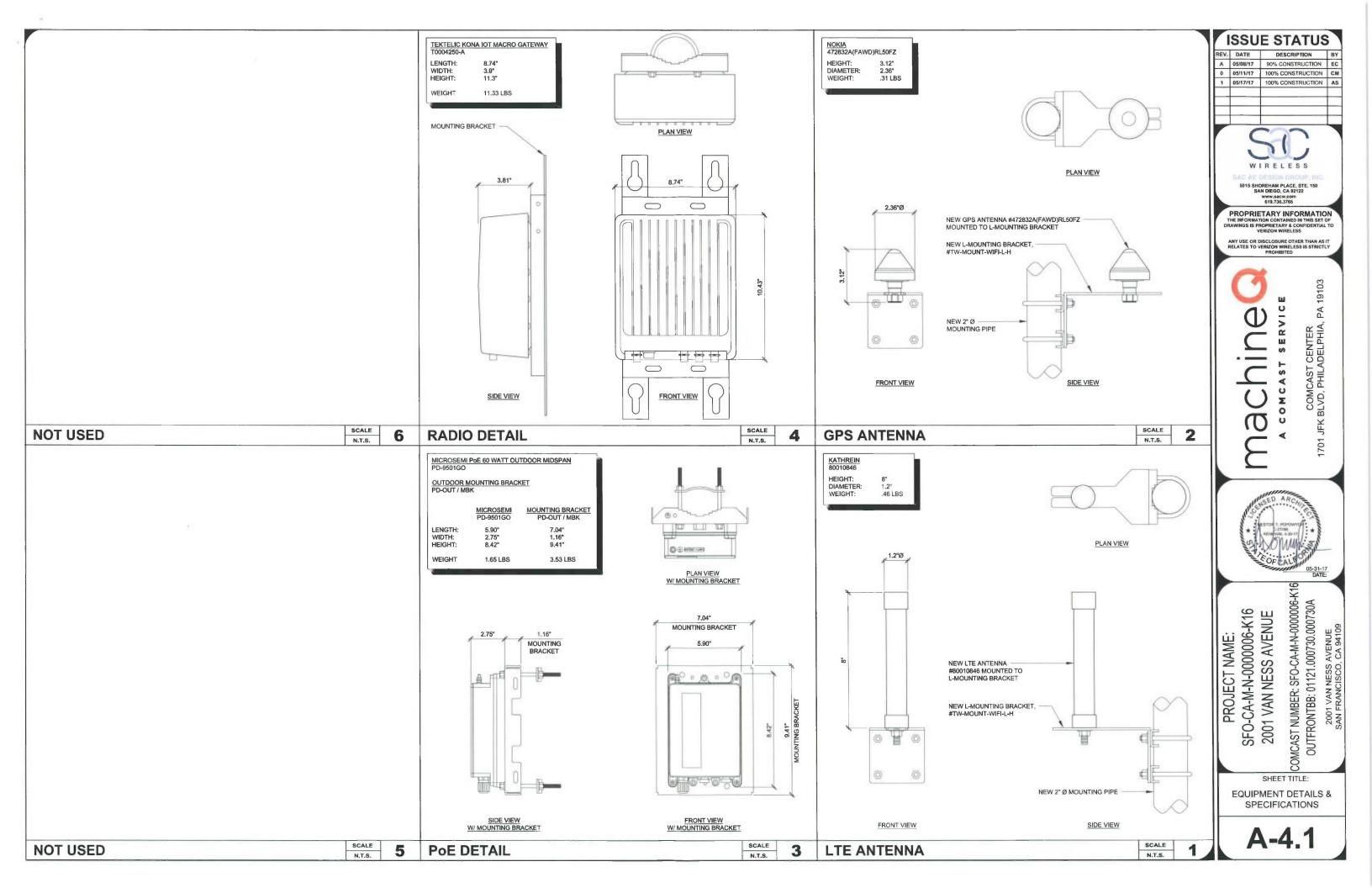
100' 0 50' 100' SCALE: 1" = 100'-0" (24x36)

(OR) 1/2" = 100'-0" (11x17)



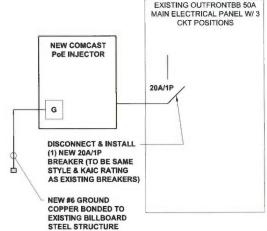






UTILITY GENERAL NOTES:

- ALL NEW GROUNDINGS FOR ELECTRICAL ROUTE
 MUST BE DONE PER CEC, NEC & LOCAL BUILDING &
- 2. ALL NEW CONDUIT FROM ELECTRICAL PANEL TO COMCAST RADIO MUST BE EMT (INDOOR) & RGS (OUTDOOR) CONDUITS. INSTALL WEATHERPROOF PULL BOXES AS REQD. PER CEC. NEC & LOCAL BLDG & SAFETY REQUIREMENTS & MUST HAVE TRAFFIC
- 3. ALL NEW PULL BOXES MUST BE HOT-DIPPED GALVANIZED AND WEATHERPROOF
- 4. ALL NEW WIRE SPLICES PULL BOXES DONE PER CEC
- 5. FIELD VERIFY EXACT ELECTRICAL CONDUIT ROUTE.
- 6. COMCAST EQUIPMENT, OUTLET AND CONDUIT NEED TO BE LABELED & ALL CLEARANCE FOR ELECTRICAL EQUIPMENT BY CEC & NEC.
- NEW GROUND RODS MAY BE USED FOR SITE GROUNDING IF DESIRED RESISTANCE IS ACHIEVED.
- 8. CONTRACTOR TO INSTALL UTILITY CONDUIT
- 9. UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY COMCAST CONSTRUCTION TEAM & COMCAST CONSTRUCTION MANAGER / AND OR LANDLORD'S MANAGEMENT COMPANY AND ARE FOR BID PURPOSES ONLY.
- 10. CONTRACTOR SHALL COORDINATE WITH COMCAST CONSTRUCTION TEAM & COMCAST CONSTRUCTION MANAGER / AND OR LANDLORD'S MANAGEMENT COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT, CONTRACTOR ROPES CABLES PULL BOXES CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD BARRIERS POLE RISERS FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE



EXISTING OUTFRONTBB 50A

SCALE SCALE 2 **NOT USED ELECTRICAL NOTES** N.T.S. N.T.S.

SYMBOLS

COMPRESSION, CLAMP, OR DOUBLE HOLE LUG TYPE GROUND CONNECTION \boxtimes **GROUND ROD WITH ACCESS** XIT GROUND ROD EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO \otimes **GROUND ROD** GROUND HALO DISCONNECT SWITCH GROUNDING WIRE, DASHED LINE INDICATES UNDERGROUND M UTILITY METER TELEPHONE LINE, DASHED LINE INDICATES UNDERGROUND CIRCUIT BREAKER COAXIAL CABLE, DASHED LINE INDICATES UNDERGROUND FUSE **ANTENNA COAX** (G) **GENERATOR** DETAIL REFERENCE DETAIL NO.2 ON SHEET E3 (2) E3) LIGHT SWITCH

ABBREVIATIONS

ANTENNA CABLE COVER ASSEMBLY ACCA **BARE TINNED COPPER WIRE BTCW** (N) CIGBE **COAX INSULATED GROUND BAR EXTERNAL** PDC CO CONDUIT ONLY PRC DRAWING **PVC EMT ELECTRICAL METALLIC TUBING** NEW OR EX. EXISTING RWY GFI GRND GPS GR **GROUND FAULT CIRCUIT INTERRUPTER GLOBAL POSITIONING SYSTEM** TEL

INTERIOR GROUND RING (HALO)
MASTER ISOLATED GROUND BAR **NEW (PROVIDE AND INSTALL** UNLESS NOTED OTHERWISE POWER PROTECTION CABINET PRIMARY RADIO CABINET POLYVINYL CHLORIDE CONDUIT RIGID GALVANIZED STEEL RACEWAY SINGLE LINE DIAGRAM VERIZON WIRELESS WIRELESS LIMITED PARTNERSHIP TELEPHONE

WEATHERPROOF EQUIPMENT

EXISTING TIMER NEW #6 GROUND COPPER BONDED TO EXISTING BILLBOARD EXISTING BILLBOARD EXISTING OUTFRONTBB STEEL STRUCTURE ELECTRICAL PANEL W/3 So (1) NEW COMCAST **EXISTING LIGHTS** 20A/1P BREAKER POE INJECTOR

NEW COMCAST PoE INJECTOR

> **EXISTING** OUTFRONTBB **ELECTRICAL PANE**

SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE PROJECT NAME

1-LINE DIAGRAM & NOTES

SCALE

SYMBOLS & ABBREVIATIONS

3 1-LINE DIAGRAM

SCALE

ISSUE STATUS

A 05/08/17 90% CONSTRUCTION EC 0 05/11/17 100% CONSTRUCTION CM 1 05/17/17 100% CONSTRUCTION

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PROPRIETARY INFORMATION

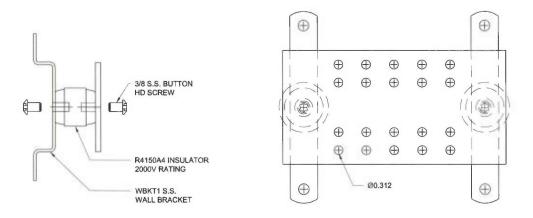
ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

IFORMATION CONTAINED IN THIS SET OF IGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

DESCRIPTION

OMCAST NUMBER: SFO-CA-M-N-0000006-K1 OUTFRONTBB: 01121.000730.000730A

JFK BLVD,



CONFIGURATION DESIGN

SCALE 4

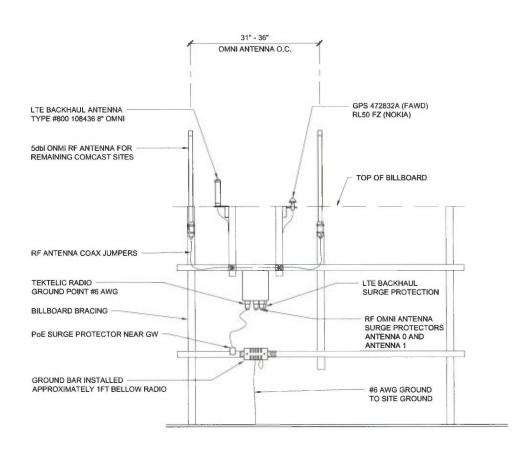
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS
- 2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS, FOLLOW ANTENNA AND BTS MANUFACTURES PRACTICES FOR GROUNDING REQUIREMENTS, GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
- ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- 4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY A NOKIA REPRESENTATIVE.
- 5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
- 6. CONTRACTOR TO ABIDE BY ALL NOKIA SAFETY STANDARDS DURING SITE CONSTRUCTION.
- 7. CONTRACTOR SHALL REFER TO NOKIA STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS
- 8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED NOKIA REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM, PHOTO DOCUMENT ALL CADWELDS AND GROUND RING.
- 9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- 10. GROUNDING ROD NOTES (WHERE APPLICABLE)
- 11. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL.

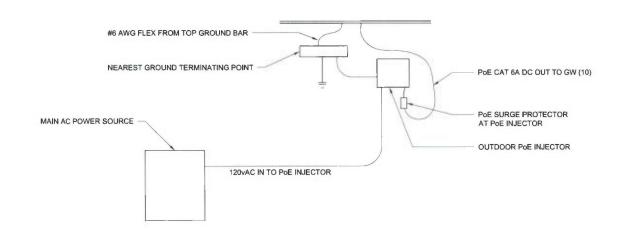
 UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- 12. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

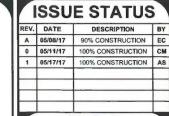
GENERAL GROUNDING NOTES

SCALE

- 3
- THE DESIGN OF THE ANTENNA MAST CONFIGURATION CALLS FOR A TWO (2) INCH DIAMETER, 10-FOOT MAST WITH THE GROUND BAR AND ANTENNAS MOUNTED ON IT IN A SET RELATIONSHIP TO THE RADIO, AND GROUND BAR.
- 2. THE MAST, RADIOS AND ANTENNAS WOULD BE THE SAME NO MATTER WHAT TYPE SITE WAS SELECTED FOR THE INSTALLATION.
- 3. THE TEKTELIC GATEWAY/RADIO UNIT IS MOUNTED ON THE ANTENNA MAST AT ABOUT 24" TO 36" ABOVE THE BASE OF THE ROOFTOP OR AT MID SPAN ON SPECIFIC SITE TOWER
- 4. THE HARGER GOUND BAR IS MOUNTED 12 INCHES BELOW THE RADIO TO PREVENT INDUCTION BUILD-UP DURING A LIGHTNING STRIKE, THE SURGE PROTECTORS FOR THE GPS, LTE, AND BOTH RF ANTENNAS ARE MOUNTED INTO THE ANTENNA PORTS ON THE BOTTOM OF THE RADIO.
- THE RF JUMPERS ARE CONSTRUCTED WITH THE SURGE PROTECTORS BUILT IN. THE ENTIRE RF JUMPER IS FULLY WEATHER-PROOFED FROM CONNECTOR TO CONNECTOR. THEIR GROUND CABLES ARE CRIMPED TO THE GROUND RING OF THE SURGE PROTECTOR AT THE RADIO END, AND ARE ATTACHED TO THE HARGER GROUND BAR USING #10 AWG TWO (2) HOLE LUGS. THE GROUND CABLES ARE #10 AWG.
- 6. THE FOUR (4) ANTENNAS ARE MOUNTED ABOVE THE RADIO, WITH THE TWO RF ANTENNAS MOUNTED, WITH ONE (1) ON EACH SIDE OF THE MAST USING THE S200 COMMSCOPE 24" STAND-OFF BRACKETS.
- THE LTE AND GPS ANTENNAS ARE MOUNTED ON THEIR RESPECTIVE MOUNTING BRACKETS AT A LOWER HEIGHT, APPROXIMATELY 2" TO 4" BELOW THE BOTTOM BAR OF THE \$200 COMMSCOPE MOUNTING BRACKETS.
- 8. THE COAXIAL ANTENNA JUMPER CABLES ARE ATTACHED TO EACH OF THE ANTENNAS, WITH THE WEATHER PROOFING SLIDE-UP COVERS ATTACHED AS
- 9. THE TEKTELIC RADIO IS GROUNDED TO THE HARGER GROUND BAR USING A TWO (2) HOLE #6 AWG LUG OFR CONNECTION TO THE RADIO AND A TWO-HOLE LUG FOR ATTACHMENT TO THE HARGER GOUND BAR
- 10. THE HARGER GROUND BAR IS GROUNDED USING #6 AWG FLEX GROUND CABLE TO THE POINT OF LOWEST POTENTIAL ON THE TOWER OR DIRECTLY TO THE TOWER GROUND AT THE BASE OF THE TOWER.
- 11. FOR THE BILLBOARD, THE GROUND POINT SHOULD BE LOCATED AND VERIFIED BY SITE SURVEY AND THE GROUND CABLE ATTACHED AT THAT POINT.









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PROPRIETARY INFORMATION

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SFO-CA-M-N-0000006-K16 2001 VAN NESS AVENUE PROJECT NAME

OUTFRONTBB: 01121.000730.000730A MCAST NUMBER:

SCHEMATIC GROUNDING PLAN & DETAILS