

SD Real Estate
Assets
City Consent Application

For installation / modification of Telecommunication antenna facility on City owned property

12-Mar-19

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: West Penasquitos Project # _____
Site Address: 12871 Black Mountain Road, San Diego (the "Property")
Agreement: Agreement dated November 21, 2018 (the "agreement") between The City of San Diego ("City") and Verizon Wireless (VAW) LLC, ("Lessee" or "Permittee").

Verizon Wireless _____ is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans /
photos.
☐ Installation of a New Wireless Communication Facility on City owned property.
☐ Apply for new Permit/New Agreement on existing facility – **NO** modifications or changes to
Existing equipment or site.

Describe proposed project below:

Monopalm/Antennas: Reposition six (6) of the existing antennas. Replace the six (6) existing RRU's with newer models. Install one (1) new Hybrid Cable. Remove the two (2) existing RayCaps and Install one (1) new RayCap.

Equipment Room: Remove two (2) existing Radio Cabinets. Install one (1) new Radio in existing Telco Rack. Install one (1) new RayCap.

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, Verizon Wireless would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Rodney Philhower, agent for Verizon Wireless

Applicant Signature: _____

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to "City Treasure", MUST be paid within 1 week of feasibility walk. This fee applies even if the agreement is never executed.

City Open Space Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed Items listed herein, with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued and that a pre-construction meeting will be conducted with staff before any work begins, if required.

4/11/19 Teanette DeAngelis, Deputy Director [Signature]
Date Print Name & Title Signature

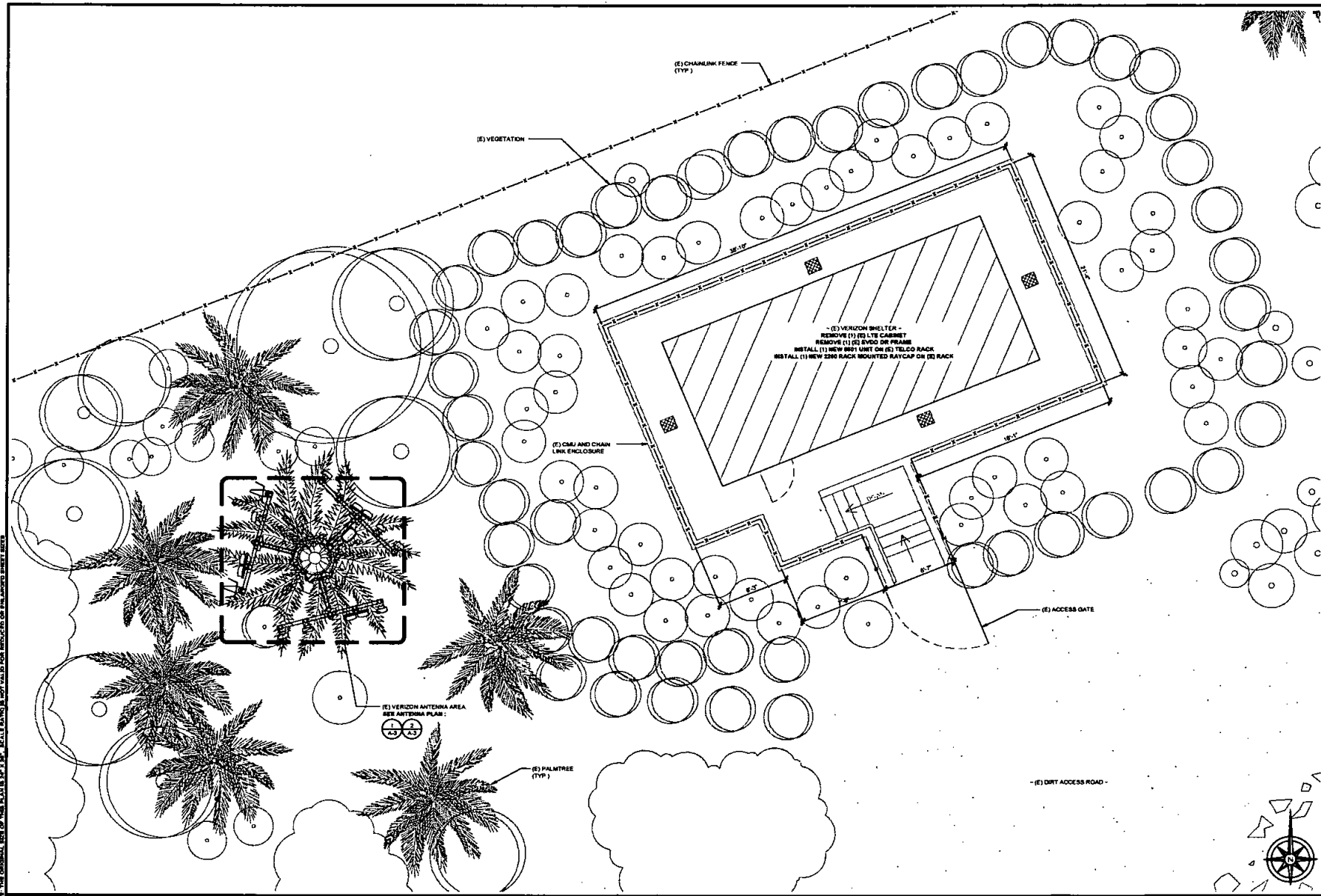
City of San Diego, acknowledgement and consent for Penasquitos Open Space 12855 Bluff Rd.

4/16/19 CYBIL THOMPSON [Signature]
Date Print Name & Title Signature
DIRECTOR VERESIMILSSES

☐ Approved and Stamped plans received and attached
☐ Scan as Amendment to Agreement



Real Estate Assets



ENLARGED SITE PLAN



15505 SAND CANYON AVE
BUILDING D' 1st FLOOR
IRVINE, CA 92618

PLAN CON:

302 STATE PLACE, 2ND FLOOR
ESCONDIDO, CA 92029



SAN DIEGO MARKET OFFICE
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(656) 300-7340

REV	DATE	DESCRIPTION	BY
1			
2			
3			
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9			
10			

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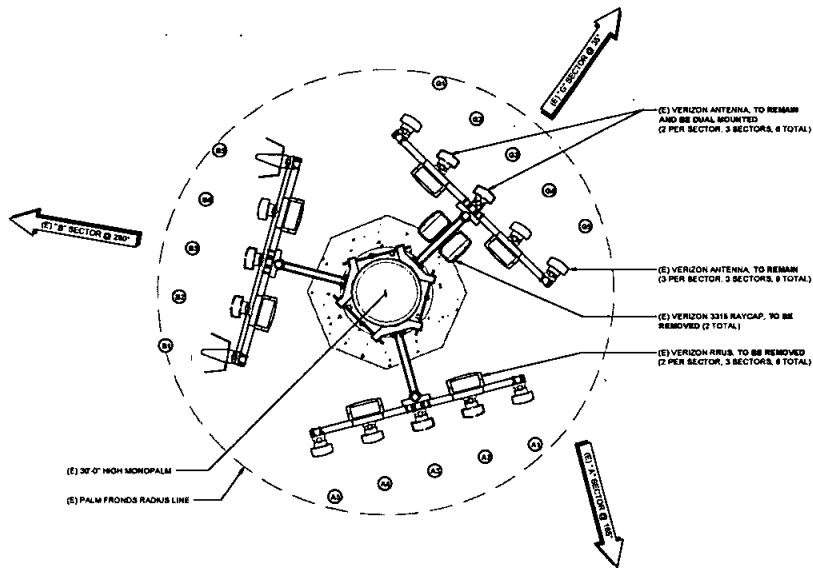
**WEST
PENASQUITOS**
12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPALM

SHEET TITLE
**ENLARGED
SITE PLAN**

SHEET NUMBER
A-2

0 1' 2' 4' SCALE: 1/4" = 1'-0" (34x36)
(OR) 1/8" = 1'-0" (11x17)





NOTE:
1. PALM FRONDS ARE NOT SHOWN FOR CLARITY.

verizon
15505 SAND CANYON AVE.
BUILDING 'D' 1st FLOOR
IRVINE, CA 92618

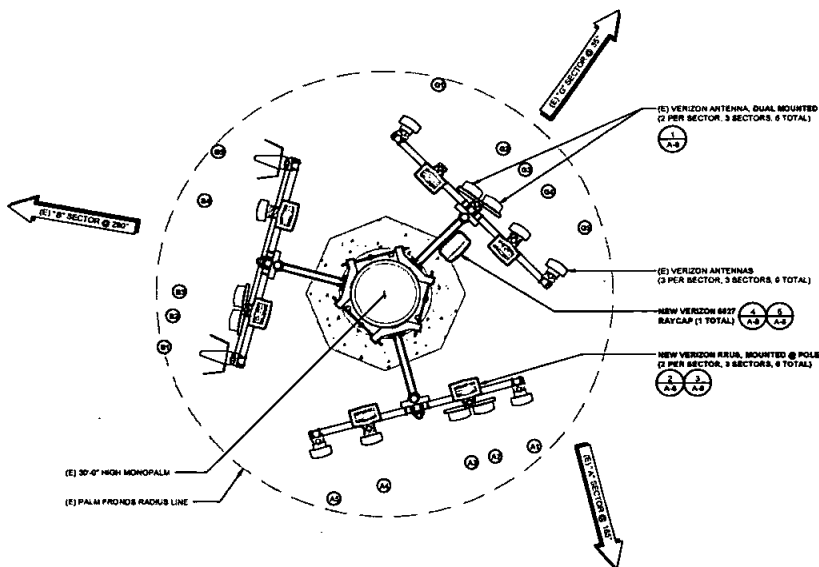
PLANCON
302 STATE PLACE, 2ND FLOOR
ESCONDIDO, CA 92026

Technology Associates
SAN DIEGO MARKET OFFICE
2801 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(658) 300-2346

REV	DATE	DESCRIPTION	BY
0	1/19/2019	100% CD (SMA COMMITTED)	SD
1	08/27/2019	100% CD (SMA COMMITTED)	SV
A	04/10/2018	80% CONSTRUCTION	JS

ANTENNA PLAN (EXISTING)

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)



NOTE:
1. VZ SHALL VERIFY & APPROVE ALL ANTENNA TYPES & ANTENNA LOCATIONS PRIOR TO THEIR INSTALLATION
2. THE CAPACITY OF THE (E) T-ARMS TO SUPPORT PROPOSED LOADS IS TO BE DETERMINED BY OTHERS

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WEST PENASQUITOS
12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPOLM

SHEET TITLE
ANTENNA PLANS

SHEET NUMBER
A-3

ANTENNA PLAN (FINAL)

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

NOTE: THE CIRCULAR SIZE OF THIS PLAN IS 34" x 34". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.

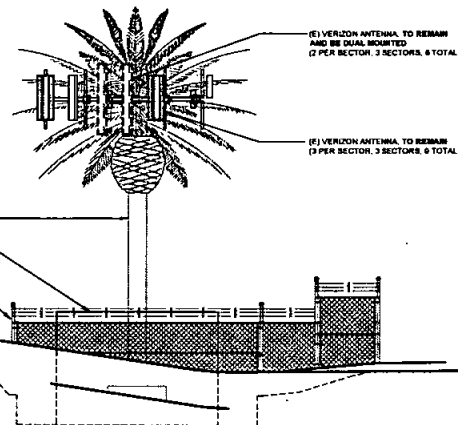
TOP OF (E) PALM FRONDS
ELEV 36'-0" AGL

TOP OF (E) MONOPOL M & (E) VZ ANTENNAS
ELEV 30'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 28'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 27'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 26'-10" AGL



SOUTHWEST ELEVATION (EXISTING)

0 1.5' 3' 6" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17)

1

NOTE:

- MONOPOL M PANEL ANTENNAS AND APPURTENANCES TO BE PAINTED GREEN TO MATCH PALM FRONDS
- RRUS, DEXLERS AND RAYCAPS NOT SHOWN FOR CLARITY

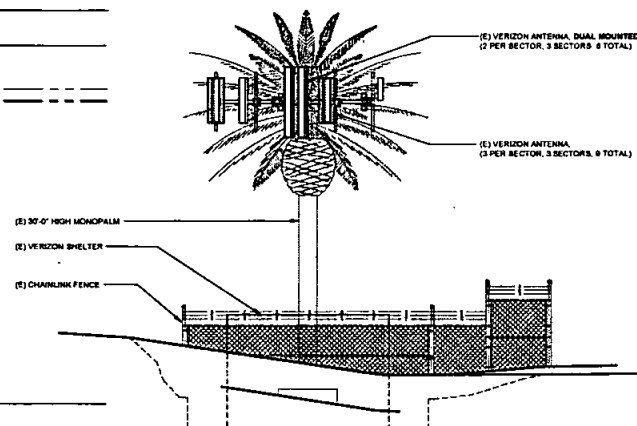
TOP OF (E) PALM FRONDS
ELEV 36'-0" AGL

TOP OF (E) MONOPOL M & (E) VZ ANTENNAS
ELEV 30'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 28'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 27'-0" AGL

CENTERLINE OF (E) VZ ANTENNAS
ELEV 26'-10" AGL



SOUTHWEST ELEVATION (FINAL)

0 1.5' 3' 6" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17)

2

verizon

15505 SAND CANYON AVE
BUILDING D' 1st FLOOR
IRVINE, CA 92618

PLANCON

302 STATE PLACE, 2ND FLOOR
ESCONDIDO, CA 92029

Technology Associates

SAN DIEGO MARKET OFFICE
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(619) 300-2345

REV	DATE	DESCRIPTION	BY
C	12/18/2018	100% CH (PDM COMMENTS)	ED
B	06/27/2018	100% CH (PDM COMMENTS)	EV
A	04/05/2018	80% CONSTRUCTION	BB

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TO SEAL THIS DOCUMENT.

**WEST
PENASQUITOS**
12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPOL M

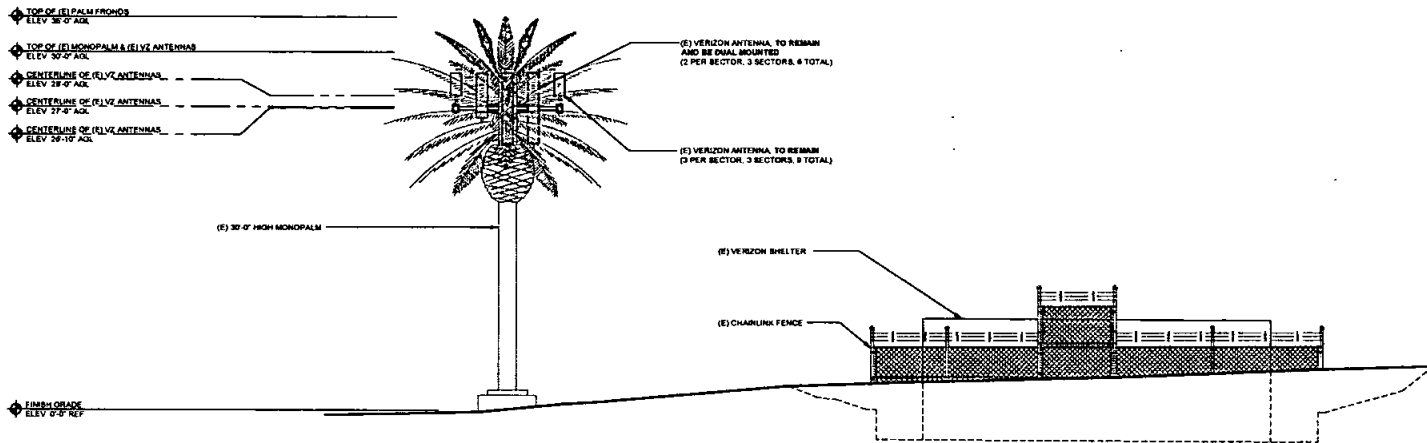
SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-4

NOTE: THE ORIGINAL SET OF THIS PLAN IS 18" x 24" 1/4". SCALE: 3/16" = 1'-0" (24x36). SCALE: 3/32" = 1'-0" (11x17). SCALE: 3/16" = 1'-0" (24x36). SCALE: 3/32" = 1'-0" (11x17).

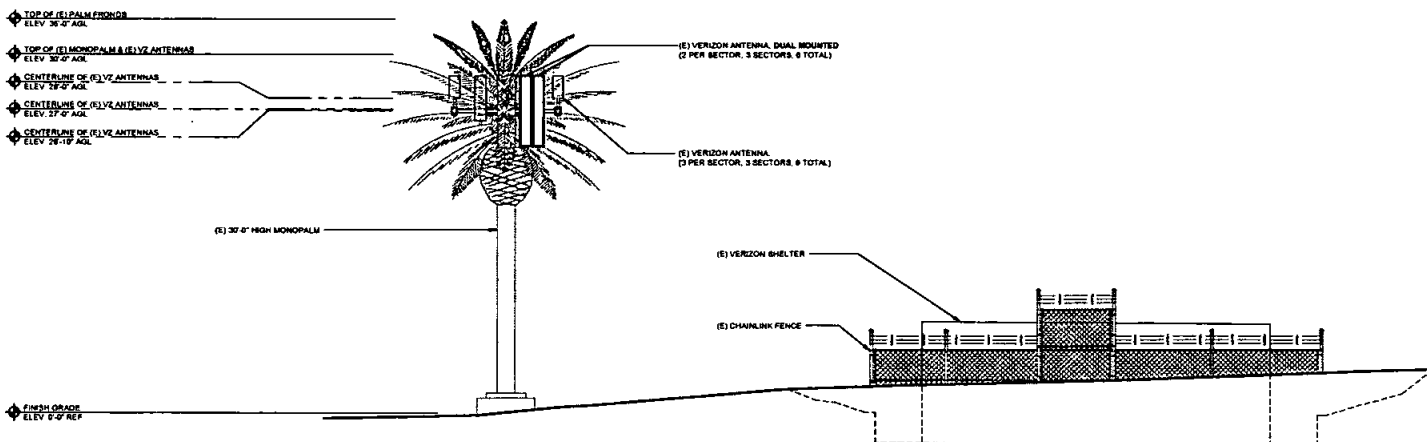


SOUTHEAST ELEVATION (EXISTING)

0 1' 5' 3" 6" SCALE: 3/16" = 1'-0" (26x36)
(OR) 3/32" = 1'-0" (11x17)

1

NOTE:			
1.	MONOPALM PANEL ANTENNAS AND APPURTENANCES TO BE PAINTED GREEN TO MATCH PALM FRONDS		
2.	RRUS, DPLEKERS, AND RAYCAPS NOT SHOWN FOR CLARITY.		



SOUTHEAST ELEVATION (FINAL)

0 1' 5' 3" 6" SCALE: 3/16" = 1'-0" (26x36)
(OR) 3/32" = 1'-0" (11x17)

2

verizon

15505 SAND CANYON AVE.
BUILDING D' 1st FLOOR
IRVINE, CA 92618

PLANCON

302 STATE PLACE, 2ND FLOOR
ESCONDIDO, CA 92029

Technology Associates

SAN DIEGO MARKET OFFICE
2651 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(619) 300-2345

REV	DATE	DESCRIPTION	BY
1	12/15/2019	100% CL (DWN COMMENTS)	ED
2	06/27/2019	100% CL (DWN COMMENTS)	SV
3	04/10/2019	100% CL (DWN COMMENTS)	SV
4	04/10/2019	100% CL (DWN COMMENTS)	SV
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98	04/10/2019	100% CL (DWN COMMENTS)	SV
99	04/10/2019	100% CL (DWN COMMENTS)	SV
100	04/10/2019	100% CL (DWN COMMENTS)	SV

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**WEST
PENASQUITOS**
12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPALM

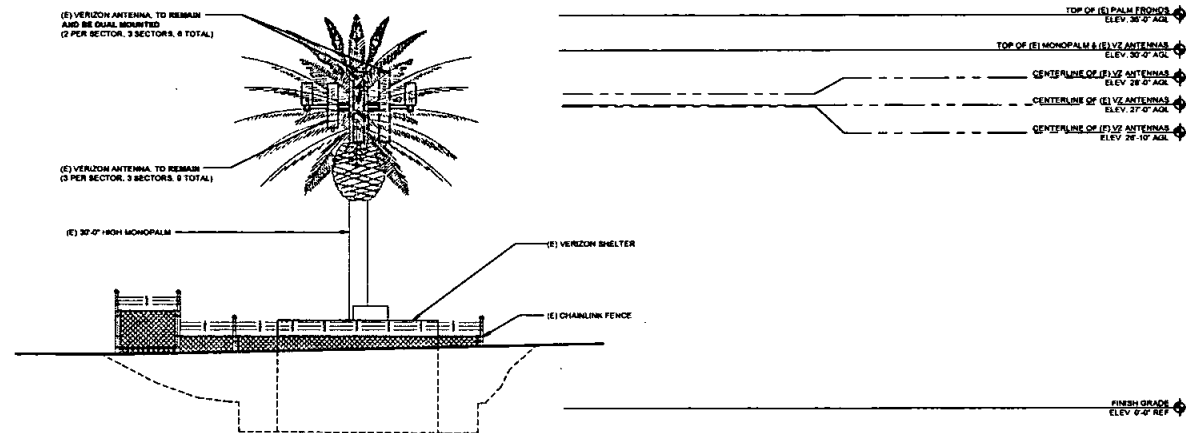
SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-5

NOTE: THE ORIGINAL SIZE OF THIS DRAWING IS 36" X 48". SCALE: 3/16" = 1'-0" (26x36). SCALE: 3/32" = 1'-0" (11x17). SCALE: 3/64" = 1'-0" (5.5x11). SCALE: 3/128" = 1'-0" (2.75x7.5). SCALE: 3/256" = 1'-0" (1.375x3.75). SCALE: 3/512" = 1'-0" (0.6875x1.875). SCALE: 3/1024" = 1'-0" (0.34375x0.9375). SCALE: 3/2048" = 1'-0" (0.171875x0.46875). SCALE: 3/4096" = 1'-0" (0.0859375x0.234375). SCALE: 3/8192" = 1'-0" (0.04296875x0.1171875). SCALE: 3/16384" = 1'-0" (0.021484375x0.05859375). SCALE: 3/32768" = 1'-0" (0.0107421875x0.029296875). SCALE: 3/65536" = 1'-0" (0.00537109375x0.0146484375). SCALE: 3/131072" = 1'-0" (0.002685546875x0.00732421875). SCALE: 3/262144" = 1'-0" (0.0013427734375x0.003662109375). SCALE: 3/524288" = 1'-0" (0.00067138671875x0.0018310546875). SCALE: 3/1048576" = 1'-0" (0.000335693359375x0.00091552734375). SCALE: 3/2097152" = 1'-0" (0.0001678466796875x0.000457763671875). SCALE: 3/4194304" = 1'-0" (0.00008392333984375x0.0002288818359375). 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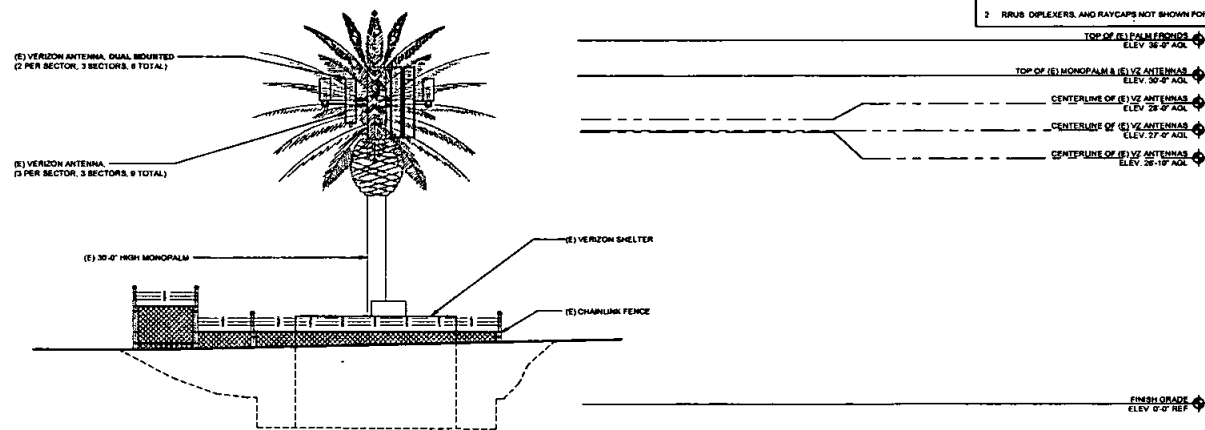


NORTHEAST ELEVATION (EXISTING)

0 1.5' 3" 6" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17)

1

- NOTE:
- 1 MONOPALM PANEL ANTENNAS AND APPURTENANCES TO BE PAINTED GREEN TO MATCH PALM FRONDS
 - 2 RRUB DUPLEXERS AND RAYCAPS NOT SHOWN FOR CLARITY



NORTHEAST ELEVATION (FINAL)

0 1.5' 3" 6" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17)

2

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PLAN CON

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Technology Associates

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2861 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(658) 300-2346

REV	DATE	DESCRIPTION	BY
C	12/18/2018	100% CD (CDM COMMENTS)	BD
B	08/27/2018	100% CD (CDM COMMENTS)	BY
A	04/10/2018	90% CONSTRUCTION	AS

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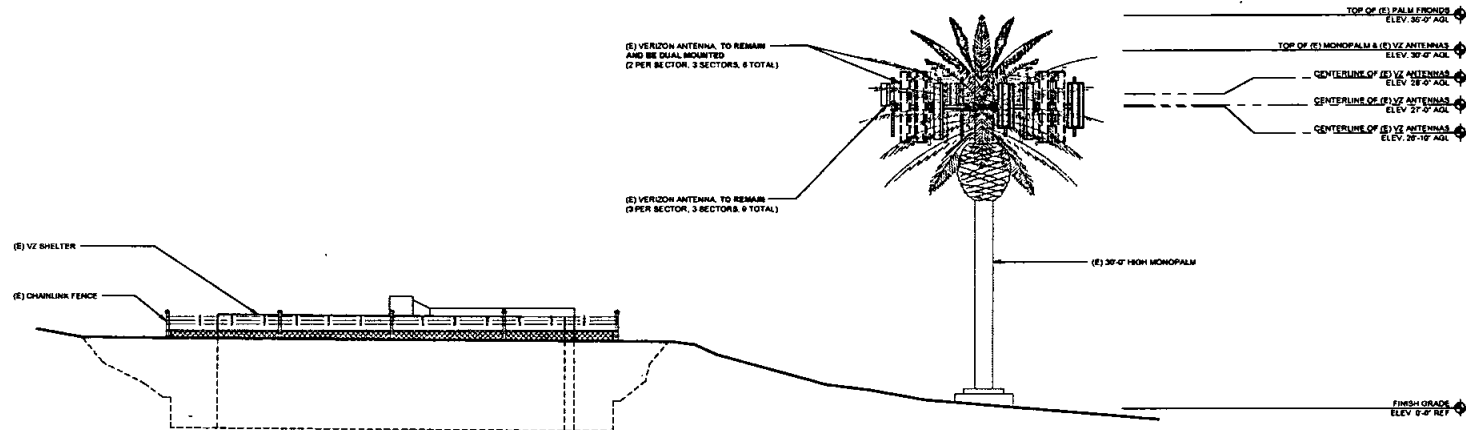
**WEST
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12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPALM

SHEET TITLE

ELEVATIONS

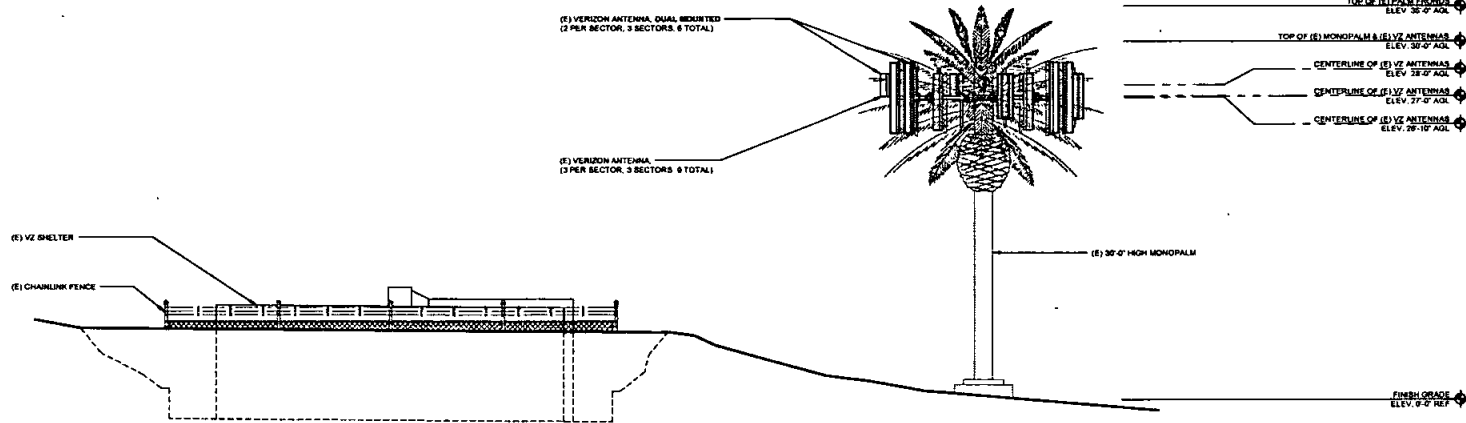
SHEET NUMBER

A-6



NORTHWEST ELEVATION (EXISTING)

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) 1



NORTHWEST ELEVATION (FINAL)

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) 2

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2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(656) 300-2346

REV	DATE	DESCRIPTION	BY
C	12/18/2019	10% OF (E)M COMMENTS	BD
B	08/27/2019	10% OF (E)M COMMENTS	BY
A	04/02/2019	80% CONSTRUCTION	JS

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SAN DIEGO, CA 92129
MONOPALM

SHEET TITLE

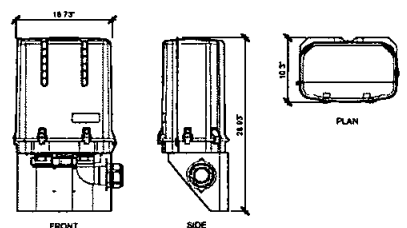
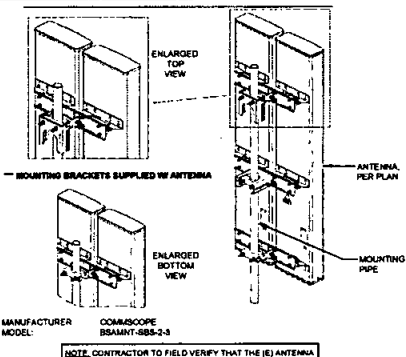
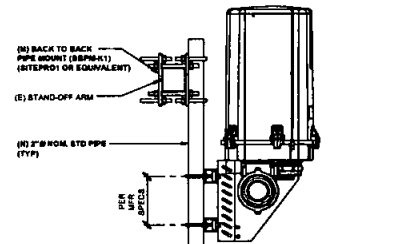
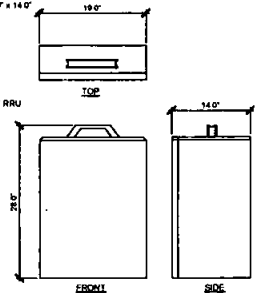
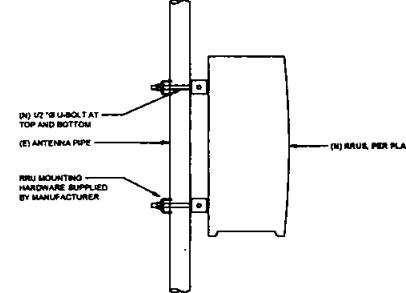
ELEVATIONS

SHEET NUMBER

A-7

NOTE: THE ORIGINAL SET OF THIS PLAN IS 24" x 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.

NOTE: THE ORIGINAL SET OF THIS PLAN IS 24" x 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.

		COMMSCOPE RAYCAP RCMDC 6627-PF-48 DIMENSIONS: 10.3" x 28.0" x 16.7" WEIGHT: 14.6 kg (32.6 lbs) COLOR: GRAY MOUNT TYPE: PIPE, 1.75" - 4.5" O.D. / WALL (MOUNTING KITS SUPPLIED BY RAYCAP)  FRONT SIDE PLAN	 ENLARGED TOP VIEW ENLARGED BOTTOM VIEW ANTENNA, PER PLAN MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER: COMMSCOPE MODEL: BSAMT-885-2-3 NOTE: CONTRACTOR TO FIELD VERIFY THAT THE (E) ANTENNA MOUNTING PIPE WILL SUPPORT (H) ANTENNA - PER PLAN
SCALE: N.T.S. 10	SCALE: N.T.S. 7	RAYCAP SPECIFICATIONS  (H) BACK TO BACK PIPE MOUNT (88PMK1) (88PMK1 OR EQUIVALENT) (E) STAND-OFF ARM (H) 3" MIN. STD. PIPE (TYPE) PER MAN. SPEC. NOTES: 1/2" TO SUPPLY POWER/FIBER JUNCTION BOX 1/2" O.C. SHALL SUPPLY ALL OTHER MATERIALS AND INSTALL ALL MOUNTING HARDWARE - A SUPPORT FOR A SINGLE POWER/FIBER JUNCTION BOX SHALL HAVE A MINIMUM OF TWO ANCHORS. FASTENERS FOR EACH UNISTRUT CHANNEL. - ANCHORS AND UNISTRUT CHANNEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH - MOUNT JUNCTION BOX TO UNISTRUT WITH UNISTRUT BOLT/NO HARDWARE AND SPRING NUTS. TYPICAL FOUR PER BRACKET. SUBCONTRACTORS SHALL SUPPLY.	ANTENNA TO PIPE MOUNTING ERICSSON RRUS DIMENSIONS (HxWxD): 28.0" x 10.0" x 14.0" WEIGHT: 106.0 lbs  TOP FRONT SIDE NOTES: 1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE FOR RRU ATTACHMENT. 2. KEEP 40" CLEAR FROM FRONT OF RRU 3. SIZE, HEIGHT, WIDTH AND DEPTH INCLUDE SOLAR SHIELD.
SCALE: N.T.S. 11	SCALE: N.T.S. 8	RAYCAP MOUNTING	RRUS SPECIFICATIONS  (H) 1/2" UNISTRUT AT TOP AND BOTTOM (E) ANTENNA PIPE RRU MOUNTING HARDWARE SUPPLIED BY MANUFACTURER (H) RRUS, PER PLAN
SCALE: N.T.S. 12	SCALE: N.T.S. 9	SCALE: N.T.S. 6	RRUS MOUNTING SCALE: N.T.S. 3

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(619) 300-2348

REV	DATE	DESCRIPTION	BY
C	12/16/2014	100% CD (CDM COORDINATE)	BD
B	06/27/2014	100% CD (CDM COORDINATE)	BY
A	04/10/2014	80% CONSTRUCTION	AB

WEST PENASQUITOS

12871 BLACK MOUNTAIN RD.
SAN DIEGO, CA 92129
MONOPALM

SHEET TITLE

DETAILS

SHEET NUMBER

A-8

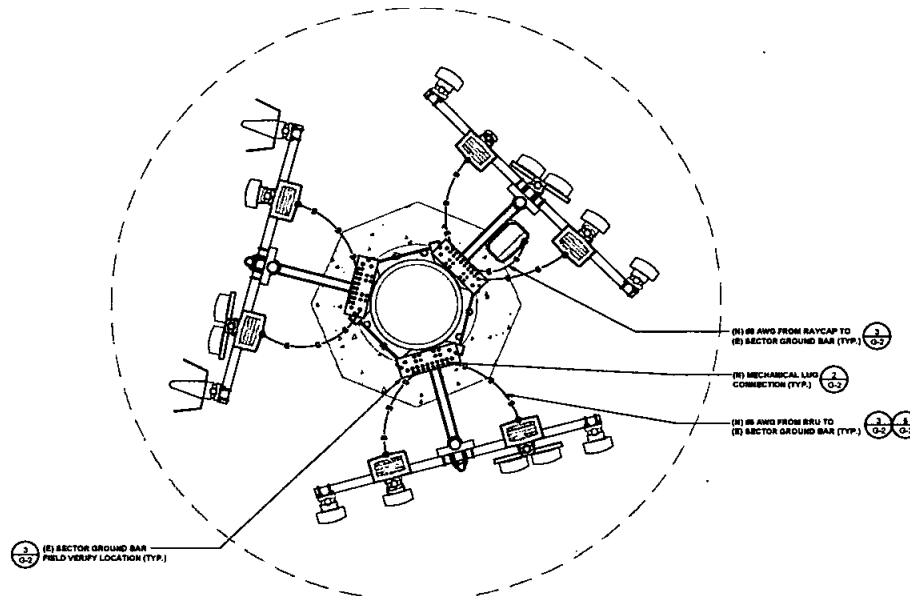
ELECTRICAL GROUNDING SPECIFICATIONS

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION
- ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE
- GROUND WIRES SHALL BE TUNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CADD-WELDED), UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND VEW WIRELESS BROADCAST STANDARDS
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE WHEN REQUIRED GROUND LEADS SHALL BE BENT TO A MINIMUM OF 9" RADIUS
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 6" BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TUNED, 1/4" COPPER, SECTOR BARS 2" COLLECTOR AND MOB BARS 4", OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBTS AND LUGS, AND EACH INSTALLED WITH ISOLATORS WHEN CONNECTING GROUND BARS (WITHIN 18 FEET OF GRADE) DIRECTLY TO THE GROUND RING. 2 EA. #2 SOLID DOWNLEADS SHALL BE CADD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING WHEN CONNECTING SECTOR GROUND BARS. DASH-CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THINN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CADD-WELDED TO THE RING
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED. PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF "COPR" SHIELD OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THINN INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO BARE METAL. FOLLOWING CADD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "ZOD DAILY" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER-CLAD STEEL, 5/8"x10', SPACED NO LESS THAN 10' ON CENTER
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND OR SUPPORTS
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE (N) GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE VEW REPRESENTATIVE
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA-70 AND APPROVED BY A.J.L.

LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
□	EQUIPMENT GROUND BAR
□	ANTENNA GROUND BAR (AS REQUIRED)
←	#2 AWG GROUND LEAD (AS REQUIRED)

NOTE

- CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED
- (N) MOUNTING PIPE(S) INSTALLED FOR MODIFICATION SHALL HAVE AN EXOTHERMIC WELD THAT LEADS TO THE (S) SECTOR GROUND BAR. A MECHANICAL LUG CONNECTION SHALL OCCUR AT (S) SECTOR GROUND BAR



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Technology Associates

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SAN DIEGO, CA 92108
(656) 500-2948

REV	DATE	DESCRIPTION	BY
C	03/18/2019	REV. OF (CRM COMMENTS)	GD
B	06/21/2019	REV. OF (CRM COMMENTS)	GV
A	04/18/2019	REV. CONSTRUCTION	JB

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**WEST
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SAN DIEGO, CA 92129
MONOPALM

SHEET TITLE
**GROUNDING
PLAN**

SHEET NUMBER

G-1



SCALE
N.T.S. 2

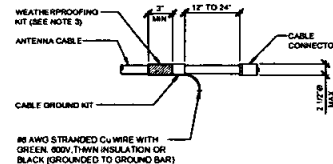
NOTES & LEGEND

1

ANTENNA GROUNDING PLAN

NOTE: THE ORIGINAL SET OF THIS PLAN IS 24" X 36". SCALE SHOWN IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

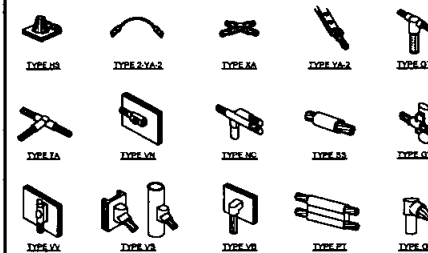
NOTE: THE ORIGINAL SET OF THIS SHALL BE 14" x 22". SCALE PLotted IN NOT VALUE FOR REDUCED OR ENLARGED SHEET SIZES



ANTENNA AND/OR GPS CABLE CONNECTION

NOTES

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
2. GROUNDING KIT TYPE SHALL BE APPROVED BY VZW PRIOR TO INSTALLATION
3. WEATHERPROOFING SHALL INCORPORATE PRO WEATHERPROOFING TAPE KIT, COLD SHRINK SHALL NOT BE USED



NOTES

EXCO EXOTHERMIC WELD TYPES SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

SCALE
N.T.S. 10

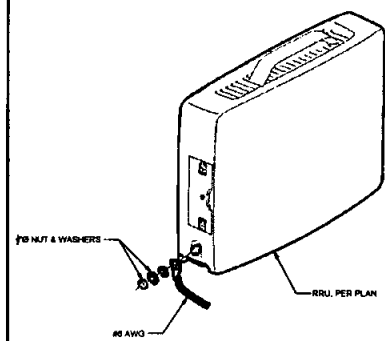
SCALE
N.T.S. 7

CABLE GROUNDING

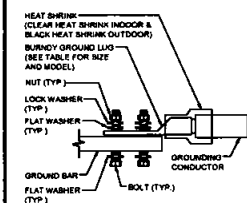
SCALE
N.T.S. 4

EXOTHERMIC WELDING

SCALE
N.T.S. 1



WIRE SIZE	BURNDY LUG	BOLT SIZE
#8 AWG GREEN INSULATED	YAHC-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID THINNED	YA30-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA30-2TC38	3/8" - 16 NC S 2 BOLT
#20 AWG STRANDED	YA28-2TC38	3/8" - 16 NC S 2 BOLT
#40 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES

1. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
2. COPPER SHEILD, ANTI-OD, OR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METAL CONNECT.
3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS
4. ALL LUGS MUST HAVE INSPECTION WINDOWS

SCALE
N.T.S. 11

SCALE
N.T.S. 8

RRU GROUNDING

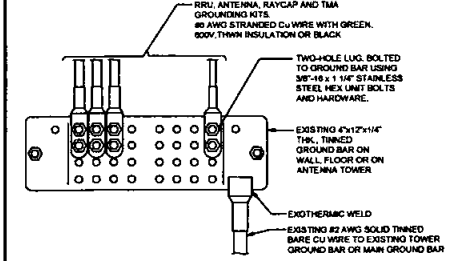
SCALE
N.T.S. 5

MECHANICAL LUG

SCALE
N.T.S. 2

NOTES

1. PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
2. CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO THE TOWER OR RING
3. GROUND BARS AT BOTTOM OF TOWERS OR MONOPOLES SHALL USE EXOTHERMIC CONNECTION



SCALE
N.T.S. 12

SCALE
N.T.S. 9

SCALE
N.T.S. 6

SECTOR GROUND BAR

SCALE
N.T.S. 3

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2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108
(619) 300-2340

REV	DATE	DESCRIPTION	BY
C	12/10/2010	100% CH (DRN COMMENTS)	ED
B	05/12/2010	100% CH (DRN COMMENTS)	SV
A	08/18/2010	80% CONSTRUCTION	JS

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MONOPALM

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2