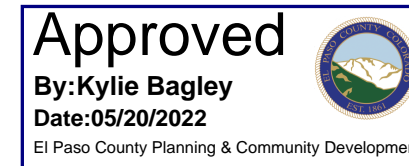


PROJECT INFORMATION		
VZW SITE ID:	CSP TRANSIT	
LATITUDE:	38.81091666°	
LONGITUDE:	-104.8033056°	
ZONING JURISDICTION:	EL PASO COUNTY	
BP JURISDICTION:	PIKES PEAK REGIONAL BLDG. DEPT.	
PROJECT TYPE:	EXISTING STEALTH WINDMILL	
		RE: DETAIL NUMBER
STRUCTURE HEIGHT	55'-5"	A-3a and A-3b
B.O. CBAND ANTENNA	39'-0"	1 / A-4
EQUIPMENT AREA LOCATION:	FENCED LEASE AREA @ GRADE	A-2a and A-2b
NUMBER / SIZE OF CONDUITS	(2) - HYBRIDS	A-2
WIND LOAD	130mph	

VERIZON WIRELESS

SITE NAME: CSP TRANSIT
MACRO SITE C-BAND MODIFICATION/UPGRADE
LAT: 38.81091666°
LONG: -104.8033056°
1325 E. LAS VEGAS ST.
COLORADO SPRINGS, CO 80903
 Parcel Number 64291-01-032



PLANS PREPARED BY:

AARON ZIMMER
 architect
 mobile: 303.870.2276
 office: 303.363.8574
 aZ@ZYmR.co

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CONTACT INFORMATION

VERIZON WIRELESS:

CONSTRUCTION ENGINEER:
 VERIZON WIRELESS PROJ. MNGR.
 CONTACT: ANDREW COLE
 PHONE: 303-827-6279

RF ENGINEER:
 DESIGN ENGINEER
 CONTACT: JOE DAVIS
 PHONE: 913-522-6807

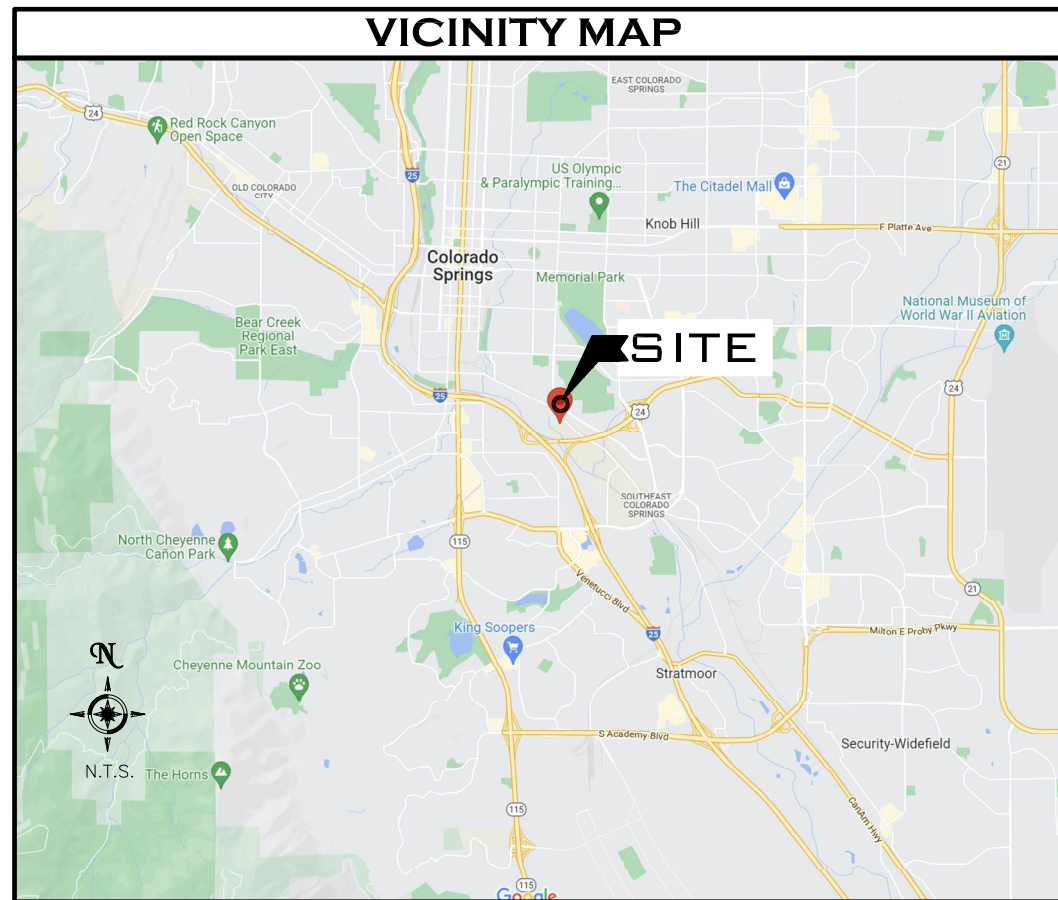
REAL ESTATE SPECIALIST:
 VZW SPECIALIST - SMALL CELL
 CONTACT: MAUREEN LOPEZ
 PHONE: 303-873-2668

SITE ACQ. AGENT FOR VZW:
 KAPPA CONSULTING
 CONTACT: GARRETT KENDALL
 PHONE: 720-365-7012

ARCHITECT:
 STUDIO-Z ARCHITECTURE, LLC
 CONTACT: AARON ZIMMER
 PHONE: 303-870-2276

ELECTRICAL ENG.:
 FRONT RANGE ELEC. ENGINEERING
 CONTACT: CARL FRETWELL
 PHONE: 303-408-5988

STRUCTURAL ENG.:
 OTEGUI STRUCTURAL SERVICES
 CONTACT: MIKE OTEGUI
 PHONE: 720-981-5333



DRAWING INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
AS-1	ARCHITECTURAL SITE PLAN
A-1	ENLARGED EQUIPMENT AREA PLANS
A-2	ENLARGED ANTENNA AREA PLANS
A-3a	ELEVATIONS
A-3b	ELEVATIONS
A-4	SCREEN WALL DETAILS
A-5	RF ANTENNA DETAILS
A-6	RF ANTENNA DETAILS
A-7	RF RRH DETAILS
GN-1	GENERAL SITE AND UTILITY NOTES
GN-2	GENERAL SITE AND RF NOTES

NO.	DATE:	DESCRIPTION:	BY:
1	04/12/22	PRELIM CD SET	aZ
2	05/03/22	PRELIM CD REV-B	aZ
3	05/05/22	PRELIM CD REV-C	aZ

ISSUE DATE:
MAY.05.2022

SITE INFORMATION:
CSP TRANSIT
 1325 E. LAS VEGAS ST.
 COLORADO SPRINGS, CO 80903
 EL PASO COUNTY



ALL ANTENNA SECTORS INSTALLED ON STEALTH WINDMILL

EQUIPMENT LOCATED @ GRADE BEHIND 8'h WOOD FENCE ENCLOSURE

PROJECT DESCRIPTION

EXISTING MACRO CELL SITE LOCATED IN CITY OF COLORADO SPRINGS.
 INSTALLATION CONSISTS OF (1) MACRO CELL SITE LINKED TO VERIZON NETWORK. ASSOCIATED EQUIPMENT IS LOCATED IN THE DESIGNATED EQUIPMENT AREA. ALL ANTENNAS (EXISTING) WILL BE REMOVED AND/OR MODIFIED FOR NEW RF DATA SHEETS. NEW ANTENNAS WILL BE ADDED FOR CBAND COVERAGE.

VERIFY ALL REQUIRED SIGNAGE WITH EME REPORT.

DO NOT SCALE DRAWINGS

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

SEAL:

SHEET TITLE:

TITLE SHEET

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

T-1

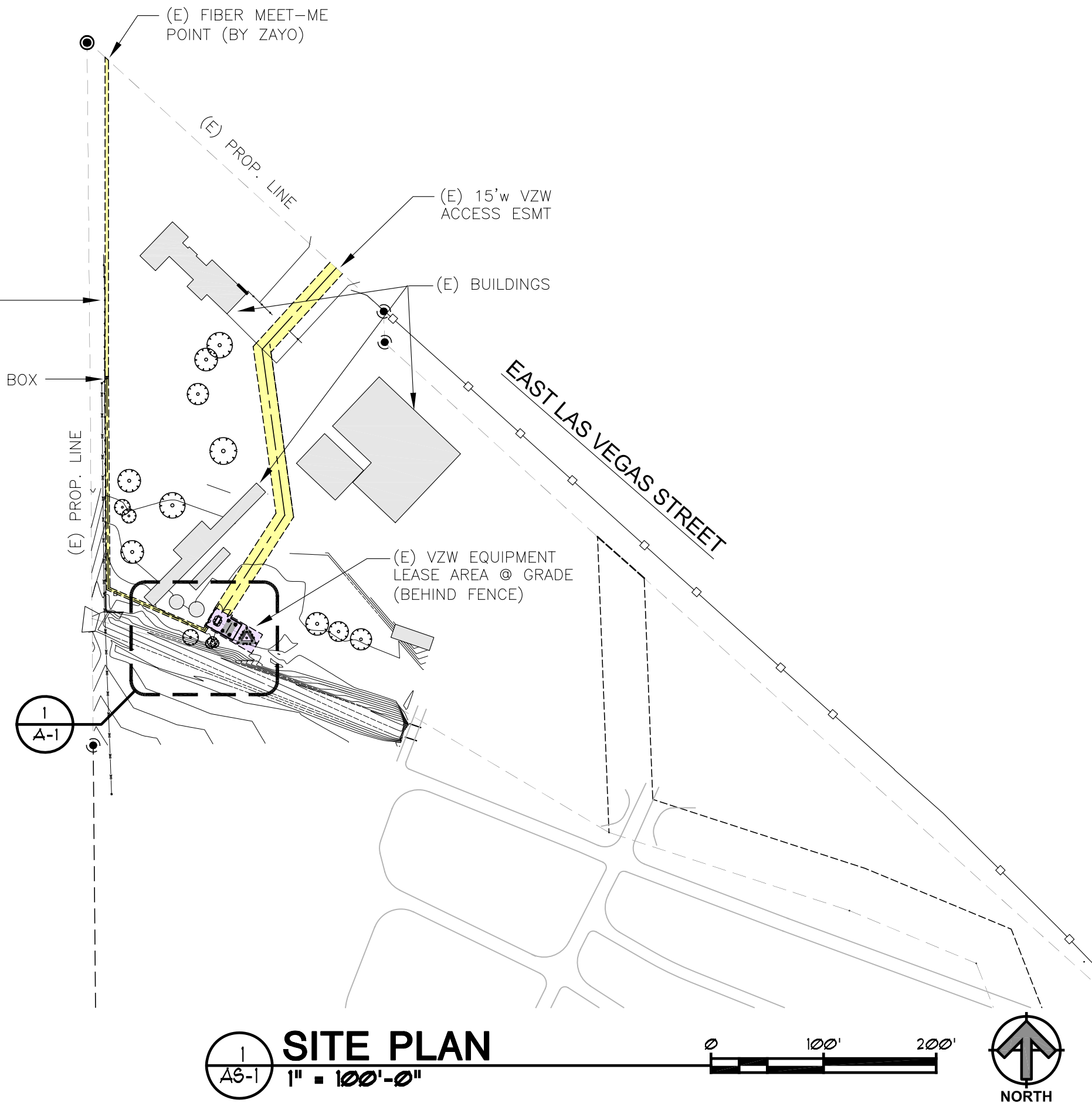
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PENETRATIONS/GROUNDING RRRH/DIPLEXER LEASE AREA FIBER POWER HYBRID & COAX CABLES

LEGEND:

MONUMENT FOUND AS DESCRIBED	○
SITE BENCHMARK	◻
VENT PIPE	⊙
ROOF VENT	◻
INDEX CONTOUR	- - - 5050 - - -
INTERMEDIATE CONTOUR	- - - 5051 - - -
WATERLINE	— W —
OVERHEAD UTILS	— OHU —
GAS LINE	— G —
STORM SEWER	— SD —
CHAIN LINK FENCE	— X —
NEW ELEC. LINE	— E —
NEW FIBER LINE	— FO —
WATER METER	⊙
ELECTRIC METER	◻ ^{EM}
BOLLARD/POST	•
UTILITY POLE	⊘
GUY WIRE	→

NOTE:
GC TO CONFIRM ALL U.G. EXISTING UTILITIES PRIOR TO CONSTRUCTION.



SITE PLAN
1" = 100'-0"



PLANS PREPARED BY:

ZYmR.S
AARON ZIMMER architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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SITE INFORMATION:
CSP TRANSIT

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COLORADO SPRINGS, CO 80903
EL PASO COUNTY

SEAL:

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SITE PLAN
5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
AS-1

PLANS PREPARED BY:



AARON ZIMMER
architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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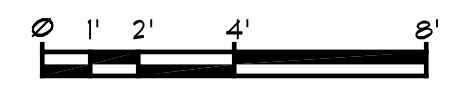
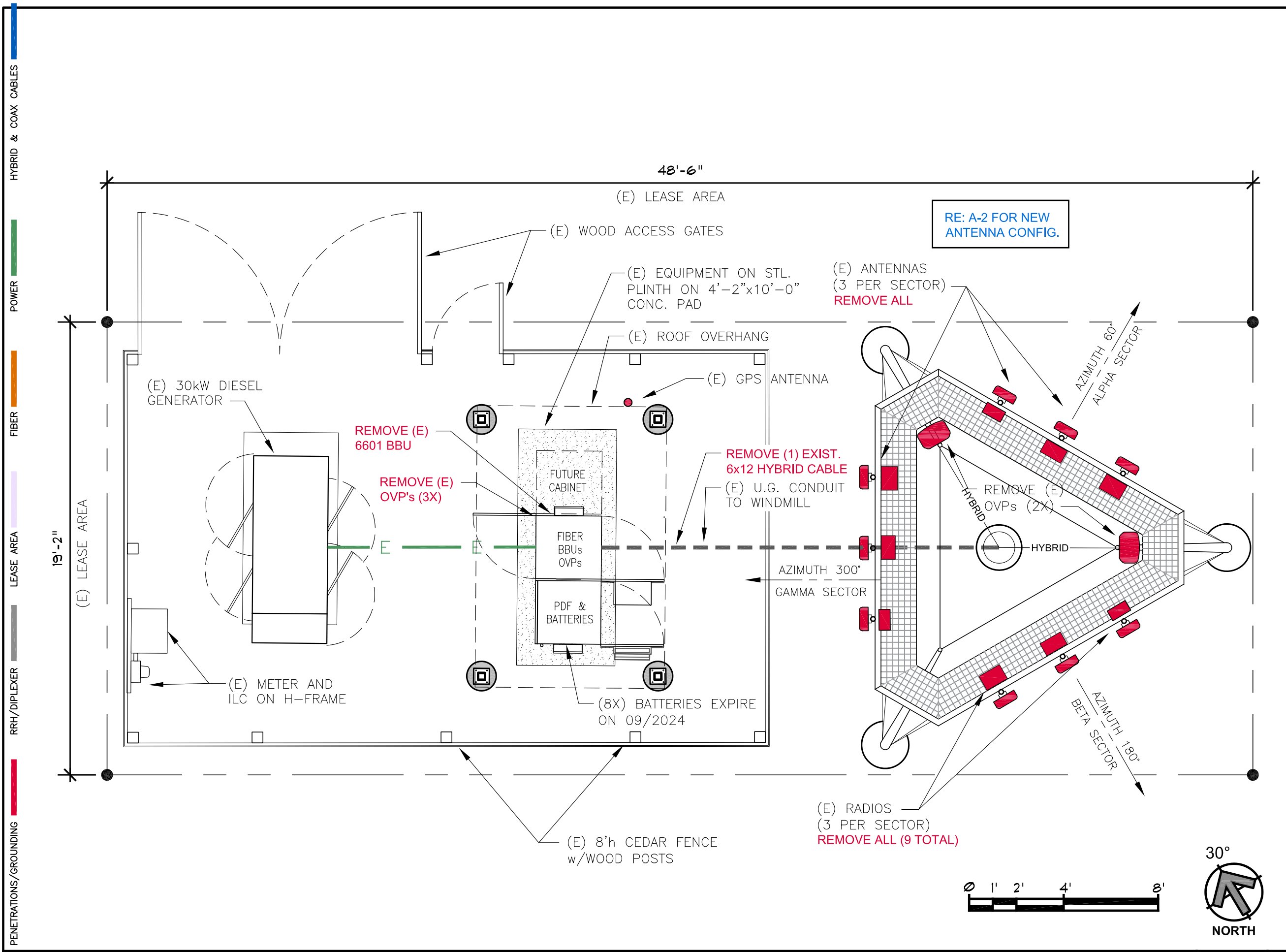
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EL PASO COUNTY

SEAL:

SHEET TITLE:
LEASE AREA PLAN

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
A-1a



SCALE:
1/4" = 1'-0" 1

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PENETRATIONS/GROUNDING RRH/DIPLEXER LEASE AREA FIBER POWER HYBRID & COAX CABLES

PLANS PREPARED BY:



AARON ZIMMER
architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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CSP TRANSIT

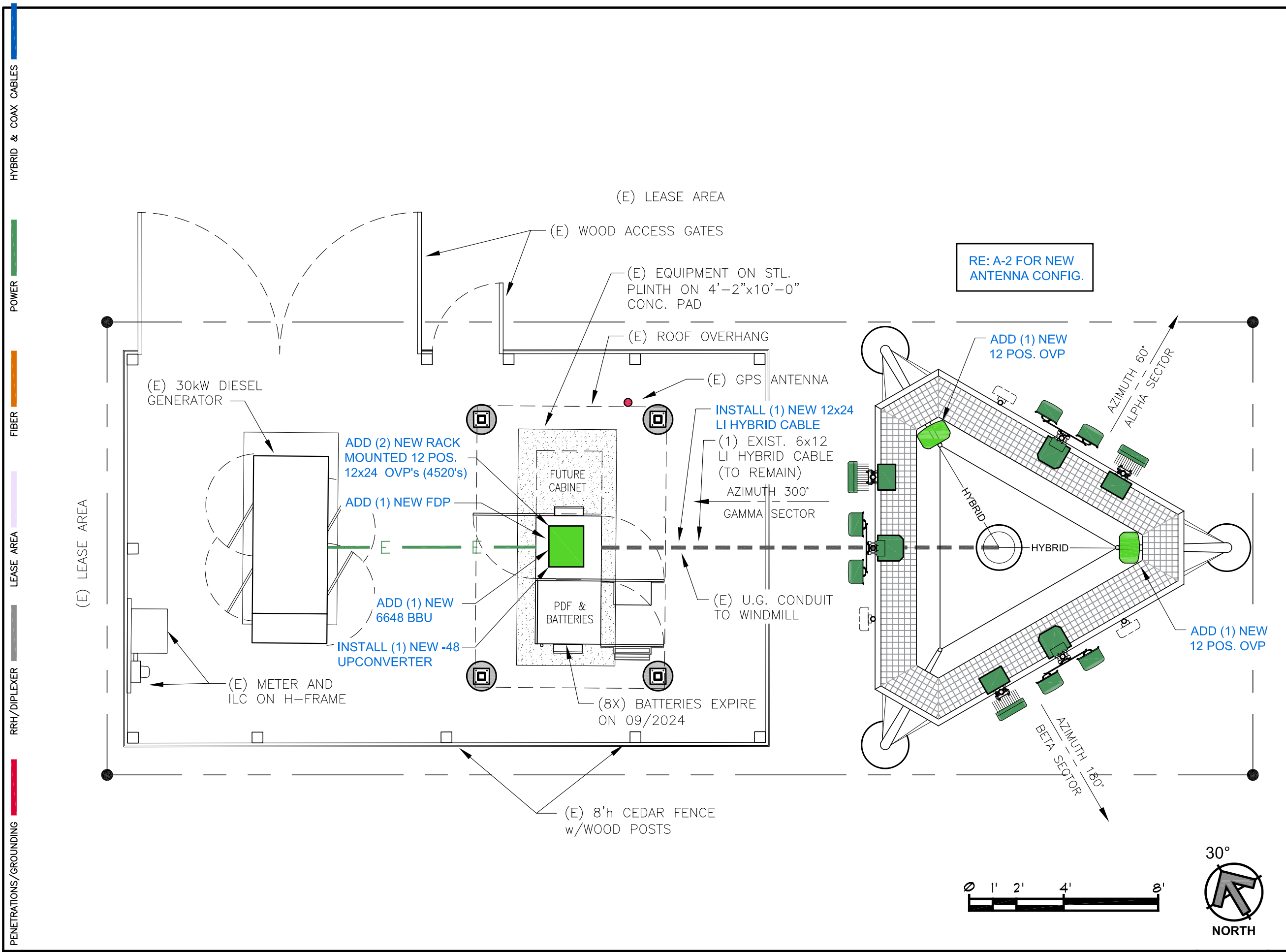
1325 E. LAS VEGAS ST.
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EL PASO COUNTY

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LEASE AREA PLAN

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
A-1b



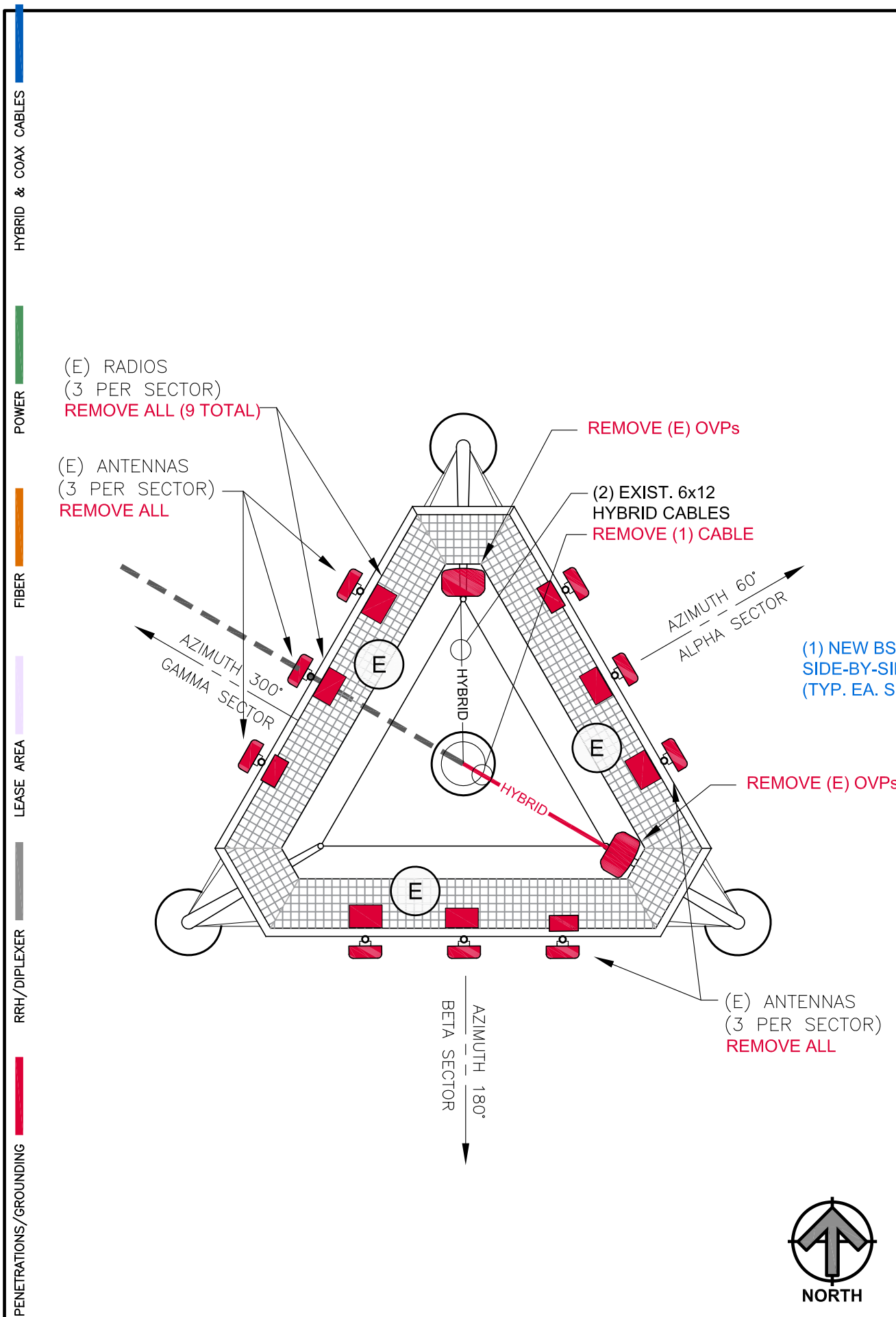
PENETRATIONS/GROUNDING RRH/DIPLEXER LEASE AREA FIBER POWER HYBRID & COAX CABLES

EQUIPMENT AREA CONFIGURATION - EXISTING

SCALE:
1/4" = 1'-0" 1

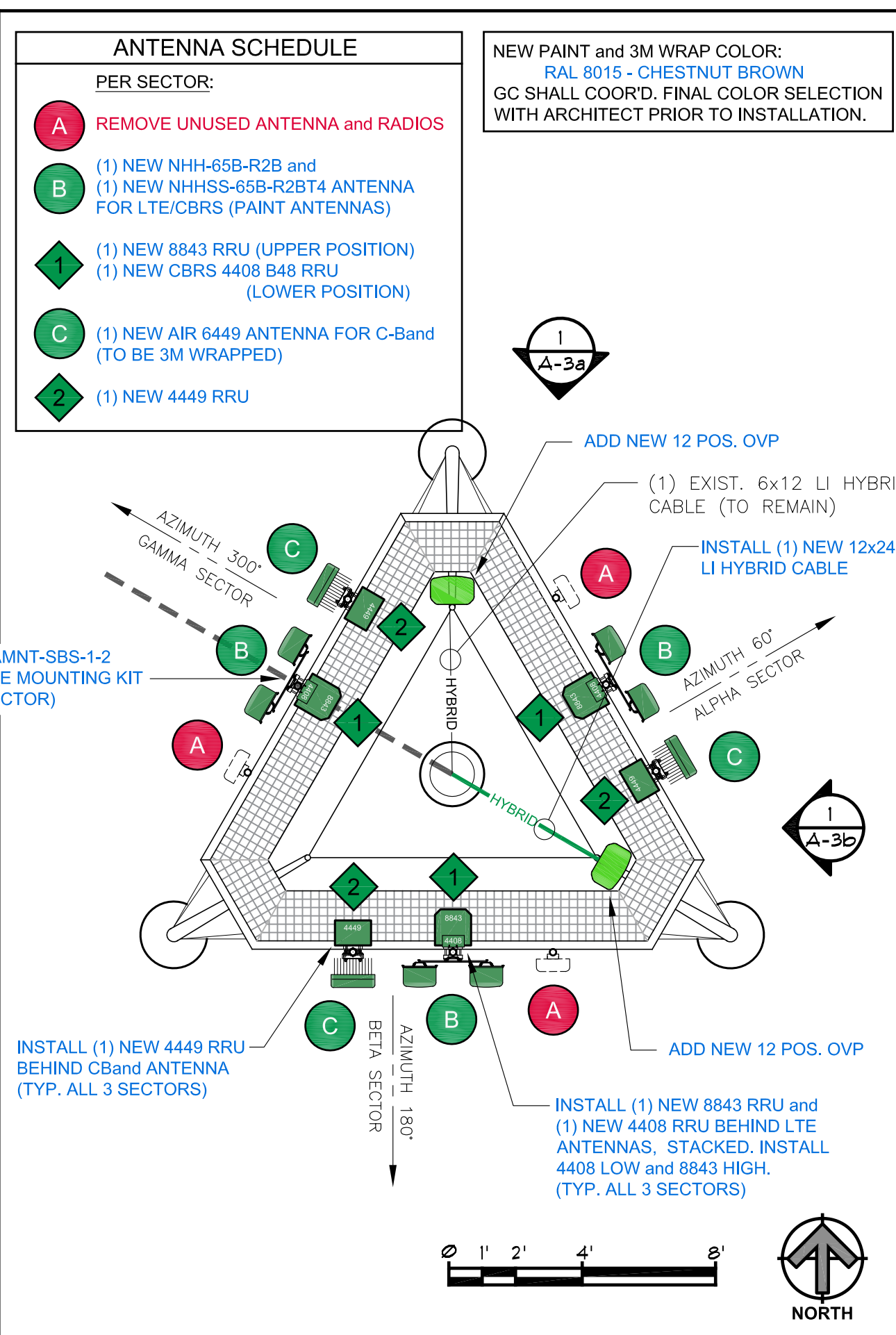
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ANTENNA CONFIGURATION - EXISTING

SCALE: 1/4" = 1'-0" 2



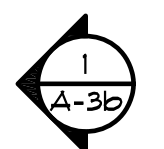
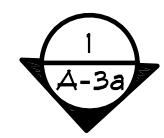
ANTENNA CONFIGURATION - NEW

SCALE: 1/4" = 1'-0" 1

ANTENNA SCHEDULE

- PER SECTOR:
- A** REMOVE UNUSED ANTENNA and RADIOS
 - B** (1) NEW NHH-65B-R2B and (1) NEW NHHSS-65B-R2BT4 ANTENNA FOR LTE/CBRS (PAINT ANTENNAS)
 - 1** (1) NEW 8843 RRU (UPPER POSITION) (1) NEW CBRS 4408 B48 RRU (LOWER POSITION)
 - C** (1) NEW AIR 6449 ANTENNA FOR C-Band (TO BE 3M WRAPPED)
 - 2** (1) NEW 4449 RRU

NEW PAINT and 3M WRAP COLOR:
RAL 8015 - CHESTNUT BROWN
 GC SHALL COOR'D. FINAL COLOR SELECTION WITH ARCHITECT PRIOR TO INSTALLATION.



PLANS PREPARED BY:

AARON ZIMMER
 architect
 mobile: 303.870.2276
 office: 303.363.8574
 aZ@ZYmR.co

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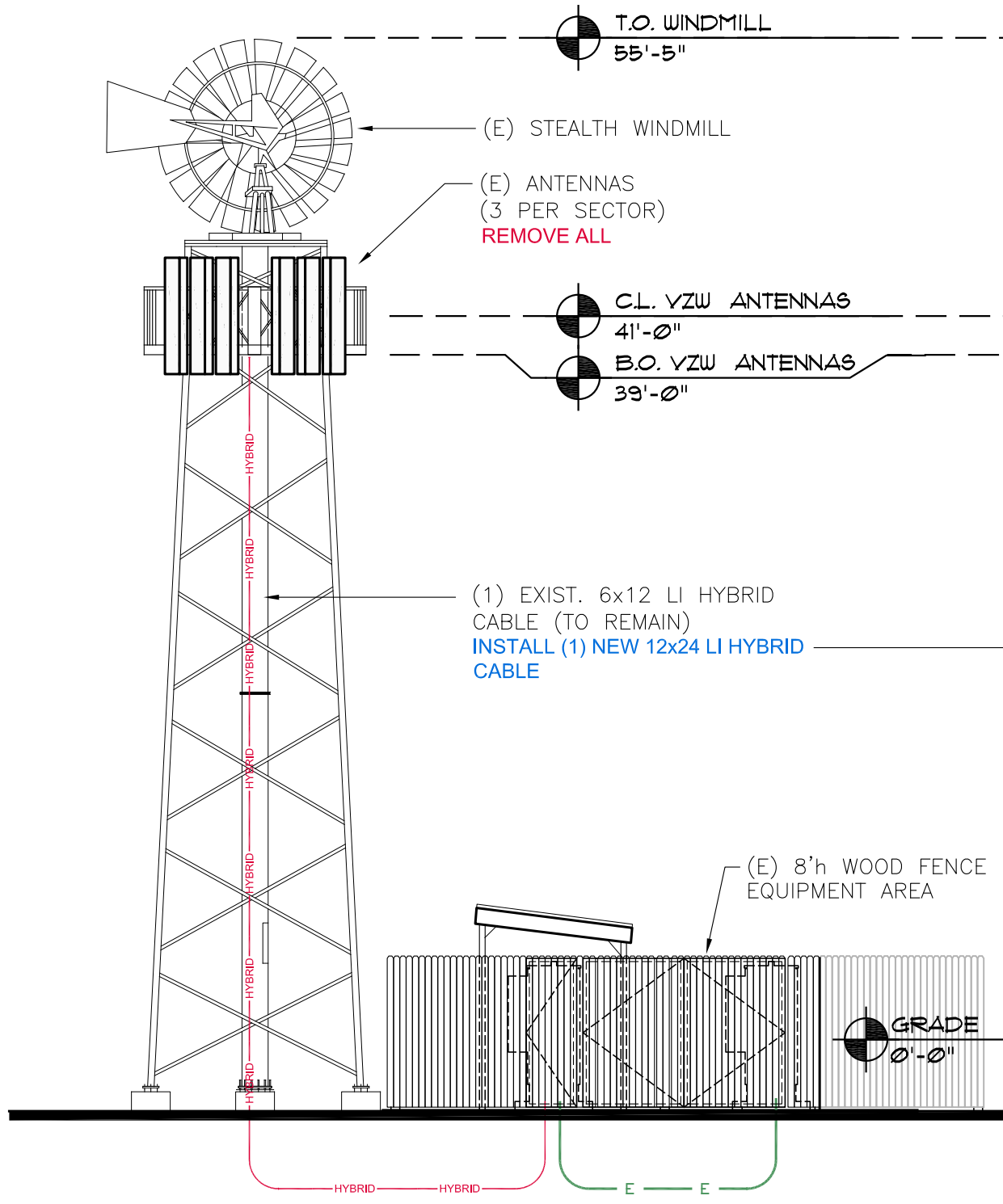
SITE INFORMATION:
CSP TRANSIT
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 COLORADO SPRINGS, CO 80903
 EL PASO COUNTY

SEAL:

SHEET TITLE:
ENLARGED ANTENNA PLAN
 5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
A-2

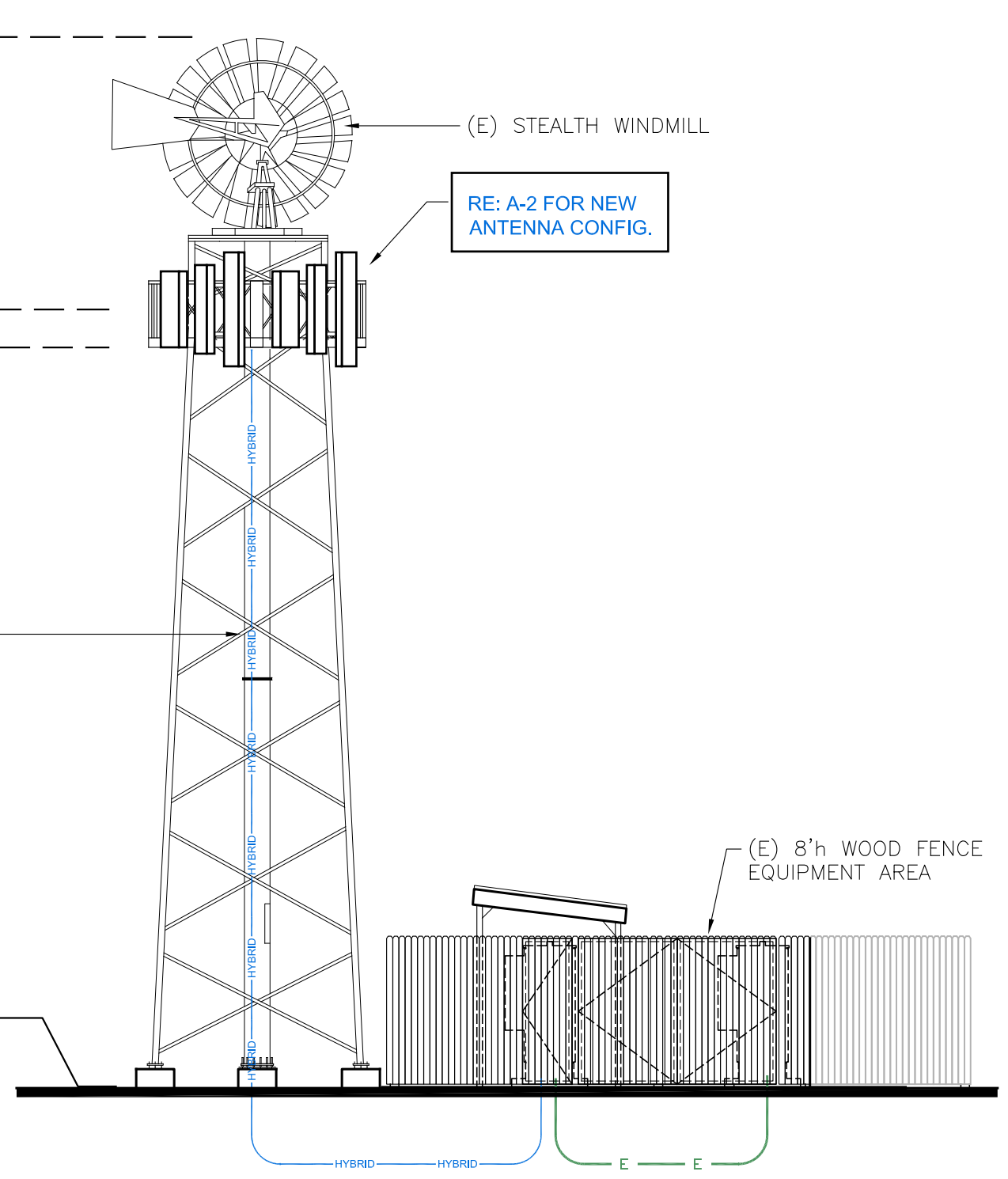
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EXISTING ELEVATION - NORTH ELEVATION

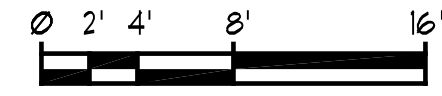
SCALE:
1/8" = 1'-0" 2

NEW PAINT and 3M WRAP COLOR:
RAL 8015 - CHESTNUT BROWN
GC SHALL COOR'D. FINAL COLOR SELECTION
WITH ARCHITECT PRIOR TO INSTALLATION.



NEW ELEVATION - NORTH ELEVATION

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



PLANS PREPARED BY:



mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co
AARON ZIMMER
architect

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EL PASO COUNTY

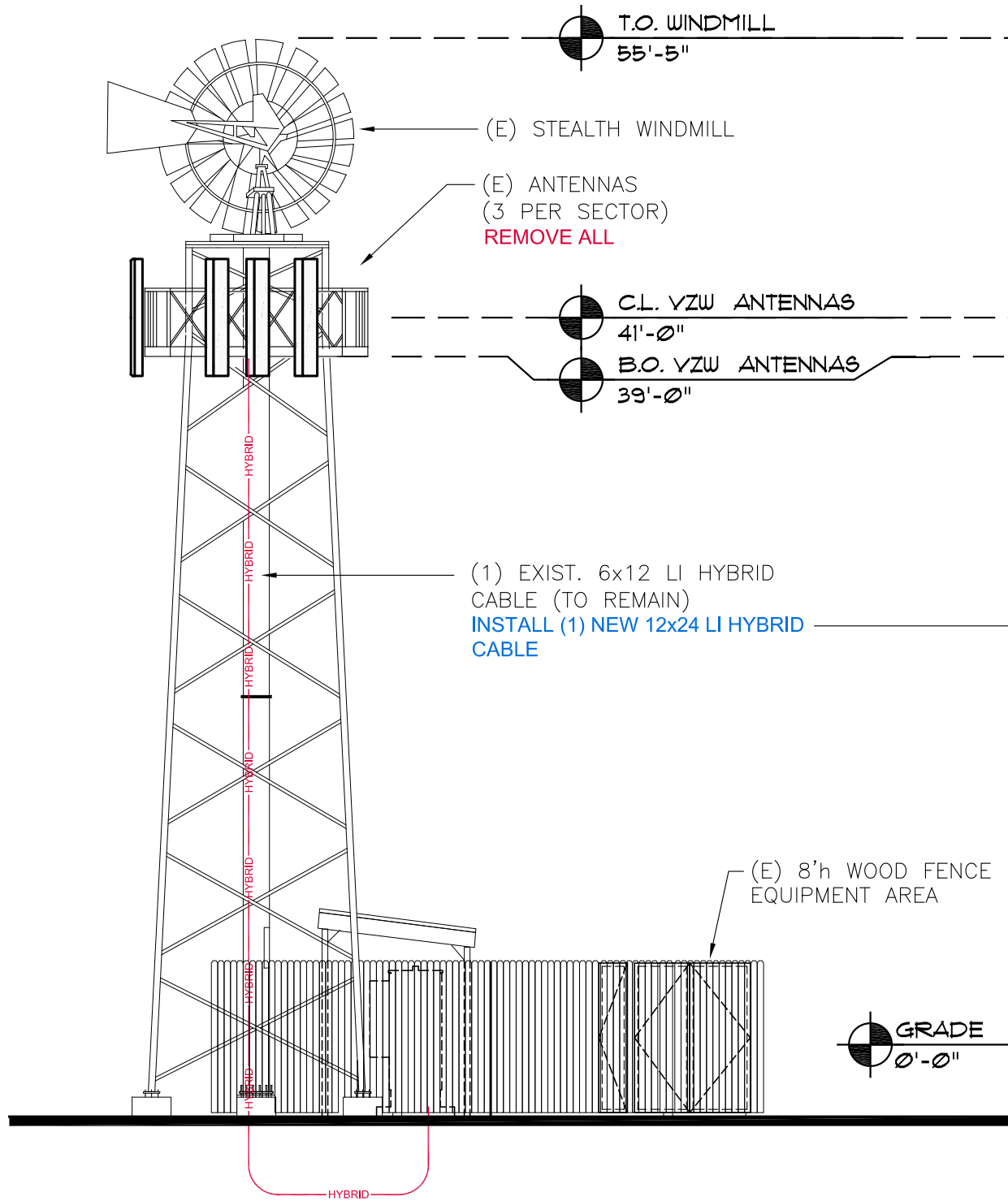
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SHEET TITLE:
SITE ELEVATION

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
A-3a

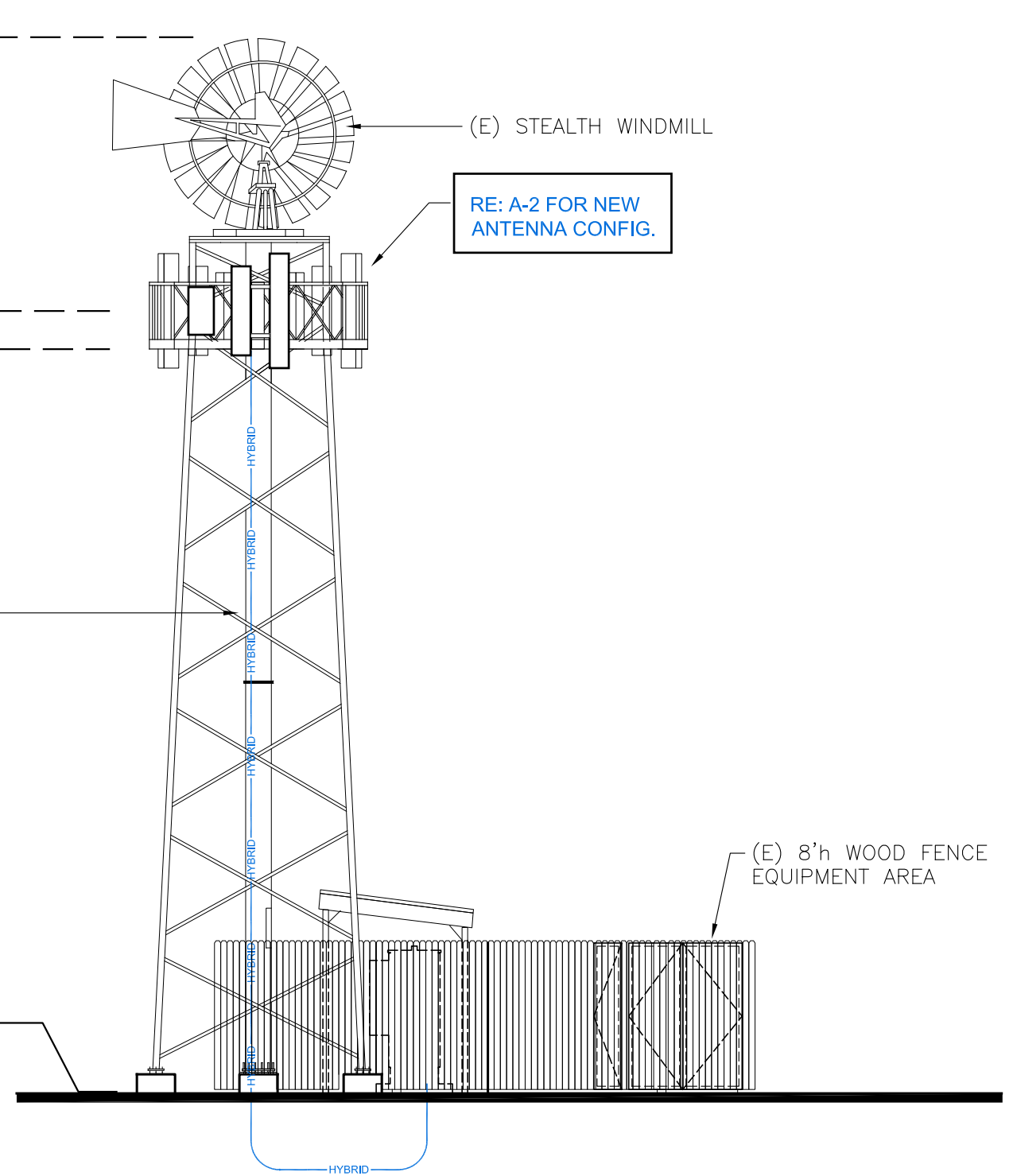
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EXISTING ELEVATION - EAST ELEVATION

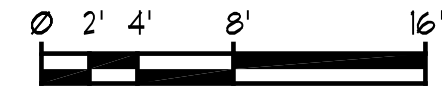
SCALE:
1/8" = 1'-0" 2

NEW PAINT and 3M WRAP COLOR:
RAL 8015 - CHESTNUT BROWN
GC SHALL COOR'D. FINAL COLOR SELECTION WITH ARCHITECT PRIOR TO INSTALLATION.



NEW ELEVATION - EAST ELEVATION

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



PLANS PREPARED BY:

ZYmR.S
AARON ZIMMER architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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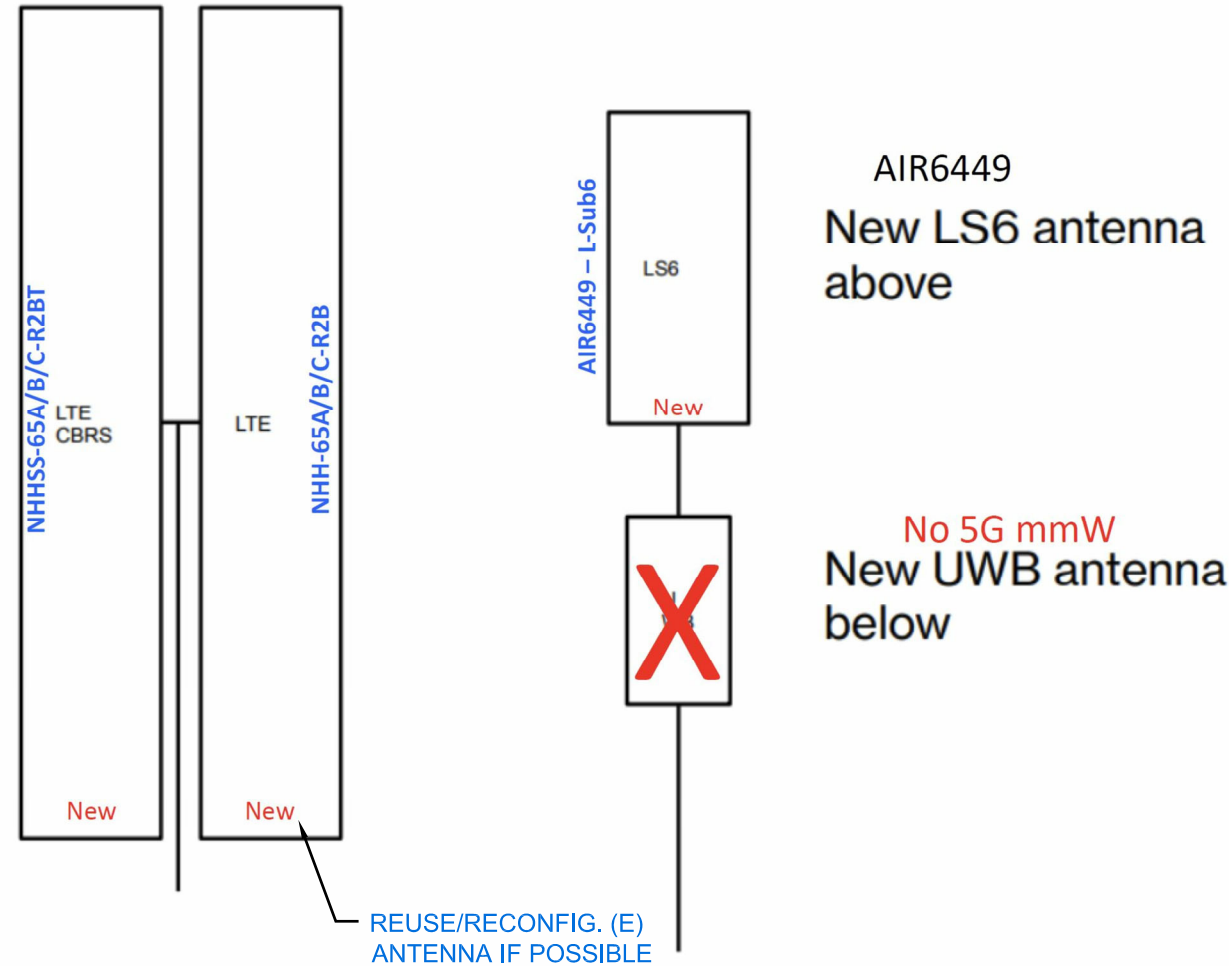
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SHEET TITLE:
SITE ELEVATION
5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
A-3b

RFDS DATE: 5/3/2022

NOTE:
ALL EXISTING ANTENNAS AND RADIOS WILL
BE REMOVED/REMOVED/REPLACED WITH
NEW MOUNTS, ANTENNAS, AND RADIOS.



Physical Characteristics

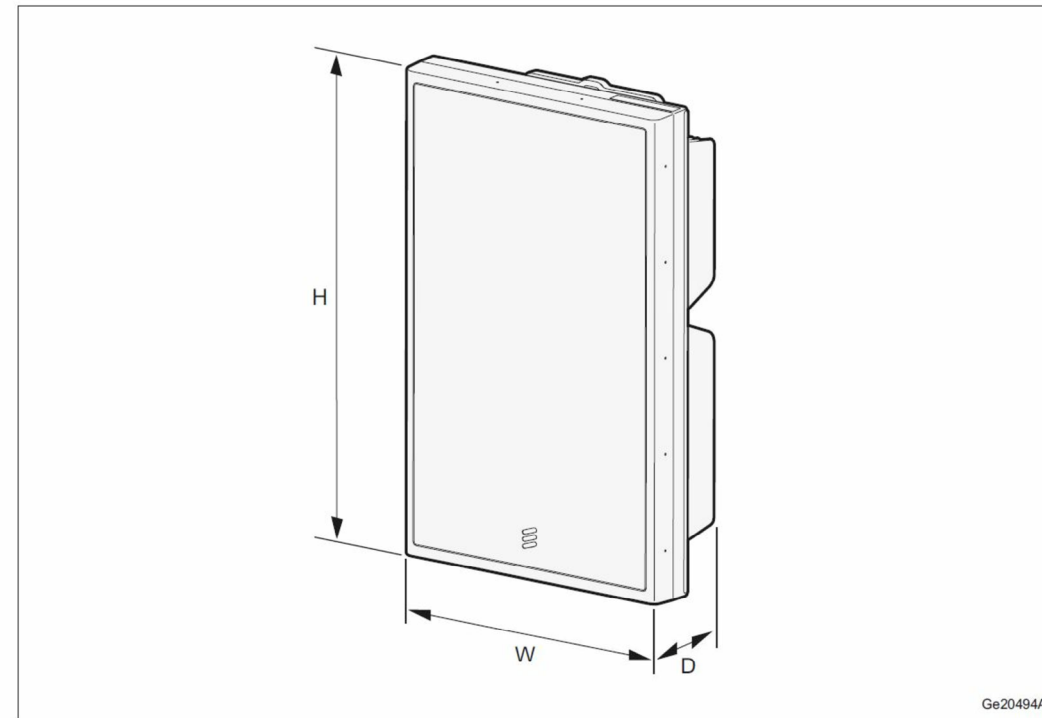


Figure 2 AIR Unit Dimensions

Table 7 AIR Unit Dimensions

AIR Unit Type	Height (H) × Width (W) × Depth (D)
AIR 6449 B41	841 × 521 × 217 mm
AIR 6449 B41K	841 × 521 × 217 mm
AIR 6449 B42	778 × 403 × 268 mm
AIR 6449 B43	778 × 403 × 268 mm
AIR 6449 B77D	30.6"×15.8"×10.5"
AIR 6449 B78M	778 × 403 × 268 mm



PLANS PREPARED BY:

ZYmR.S
AARON ZIMMER architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZyMR.co

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EL PASO COUNTY

SEAL:

SHEET TITLE:
RF DETAILS
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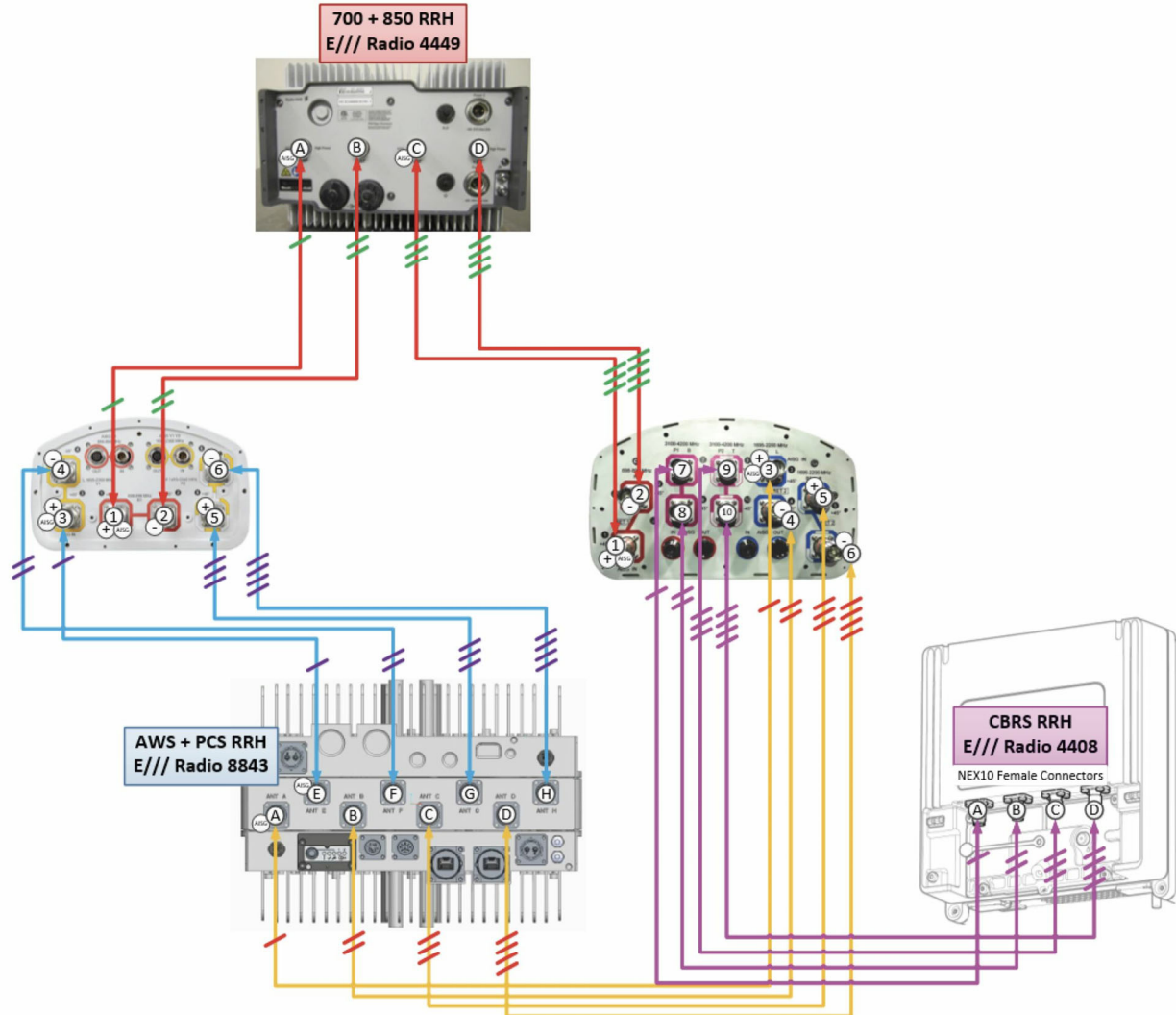
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A-5

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RFDS DATE: 5/3/2022

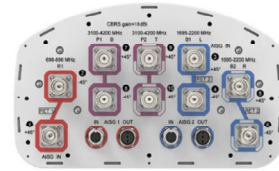
NOTE:
ALL EXISTING ANTENNAS AND RADIOS WILL BE REMOVED/REMOVED/REPLACED WITH NEW MOUNTS, ANTENNAS, AND RADIOS.

Commscope NHH + NHHSS -65A/B/C per sector



INSTALL BOTH LTE ANTENNAS USING (1) NEW BSAMNT-SBS-1-2 "SIDE-BY-SIDE" MOUNTING KIT. INSTALL (1) NEW 4408 B48 RRH TO CENTER MOUNTING PIPE. (TYP. EA. SECTOR)

NHHSS-65B-R2BT4



10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100–4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	23.1 kg 50.927 lb

COMMSCOPE NHHSS-65B-R2BT4 ANTENNA DATA SHEET

SCALE: 2
N.T.S.

PLANS PREPARED BY:



AARON ZIMMER architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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1	04/12/22	PRELIM CD SET	aZ
2	05/03/22	PRELIM CD REV1	aZ

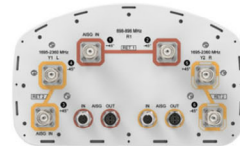
ISSUE DATE:
MAY.03.2022

CSP TRANSIT

1325 E. LAS VEGAS ST.
COLORADO SPRINGS, CO 80903
EL PASO COUNTY

SEAL:

NHH-65B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

Dimensions

Width	301 mm 11.85 in
Depth	180 mm 7.087 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	19.8 kg 43.651 lb

COMMSCOPE NHH-65B-R2B ANTENNA DATA SHEET

SCALE: 1
N.T.S.

SHEET TITLE:

RF DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

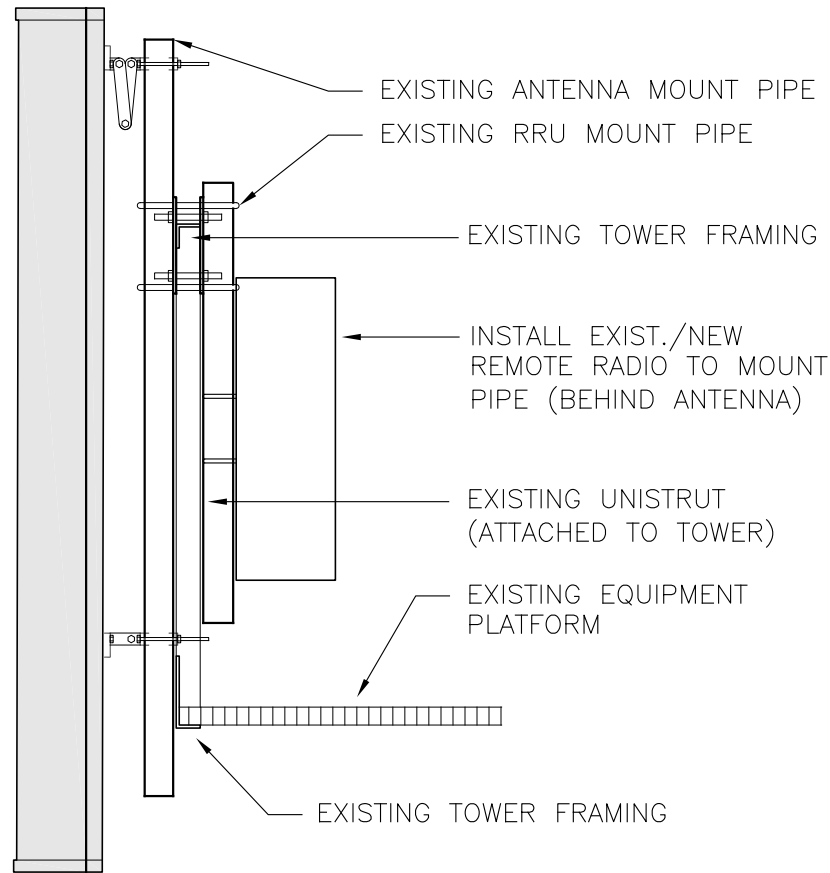
A-6

RF DATA SHEET - LTE PLUMBING DIAGRAM

N.T.S. 3

RFDS DATE: 5/3/2022

RE: A-2 FOR NEW ANTENNA CONFIG.



NOTE:
 ALL EXISTING ANTENNAS AND RADIOS WILL BE REMOVED/REMOVED/REPLACED WITH NEW MOUNTS, ANTENNAS, AND RADIOS.

RADIO 4449 – B13 & B5 4TX 4RX PER BAND

- 4 antenna ports, 4TX/4RX for 2 bands with common RF ports
- Up to 320W RF Power shared between 2 bands
 - Examples:
 - 4x40W on each band or
 - 2x60W each band on two high-power RF ports
- Carrier Capacity:
 - Up to 24 carrier and up to 10+25 MHz OBW for LTE
- 2 x 10 Gbps CPRI
- Size and Weight:

Radio 4449 - B13& B5	Height	Width	Depth	Weight
wo protruding items	15 in (380 mm)	13.2 in (335 mm)	9.3 in (235 mm)	70 lbs (31.7 Kg)
w protruding items	18 in (455 mm)	13.2 in (335 mm)	9.4 in (240 mm)	

- 48 VDC
- 2x20A fuse (2 power connectors, 2 or 3 wire)
- AISG TMA & RET support (2 Bias-T, 1 ALD port)
- Type 4.3-10 RF connectors
- 2 external alarms
- IP 65, -40 to +55 °C



Portrait Mount Only



TYPICAL ANTENNA/RRU MOUNT

SCALE: 4
 N.T.S.

ERICSSON 4449 REMOTE RADIO HEAD - EXISTING

SCALE: 2
 N.T.S.

ISSUE DATE:
 MAY.03.2022

SITE INFORMATION:
CSP TRANSIT

1325 E. LAS VEGAS ST.
 COLORADO SPRINGS, CO 80903
 EL PASO COUNTY

SEAL:

SHEET TITLE:

RF DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

A-7

RADIO 4408

Same building practice as Radio 2203/2208

- 4TX/4RX
- Tx Power 4x5W
- Up to 6 LTE carriers, IBW up to 150 MHz ENM dependency (full support 6 carriers in ENM 20Q1)
- 2x 2.5/5/9.8/10.1Gbps CPRI
- Size and Weight:

Radio 4408 Single Radio	Height	Width	Depth	Weight
wo integrated antenna	8.4 in (213.5 mm)	7.9 in (200 mm)	4.2 in (105 mm)	10.2 lbs (4.6 Kg)
w integrated antenna	8.4 in (213.5 mm)	7.9 in (200 mm)	5.0 in (125 mm)	11.1 lbs (5.0 Kg)

- AC or -48 VDC Support Units, (single new version compared to 2208, dual SUP support release TBD)
- Integrated (Antenna 6524) or external antenna
- RF Connector: NEX10
- 2 external alarm
- IP 65
- 40 to +55 °C
- Operating Bands: B48/ CBRS

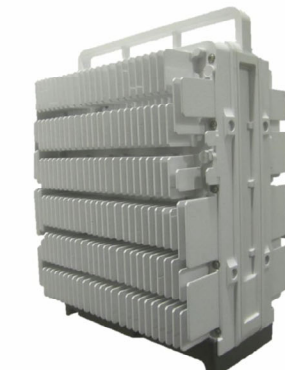


RADIO 8843 – B2 & B66A 4TX 4RX PER BAND

- 8 antenna ports, 4TX/4RX for 2 bands with separate RF ports
- Up to 320W RF Power shared between 2 bands
 - Examples:
 - 4x40W on each band or
 - 4x20W on B2 and 4x60W on Band 66A
 - 2x60W on Band 2 and 2x80W on Band 66A
- Carrier Capacity:
 - Up to 24 carrier and up to 60+70 MHz OBW for LTE
- 2 x 10 Gbps CPRI
- Size and Weight:

Radio 8843 - B2 & B66A	Height	Width	Depth	Weight
wo protruding items	15 in (380 mm)	13.2 in (335 mm)	11.1 in (282 mm)	75 lbs (34.02 Kg)
w protruding items	18 in (455 mm)	13.2 in (335 mm)	11.3 in (287 mm)	

- 48 VDC
- 2x26A fuse (2 power connectors, 2 or 3 wire) (26A for 4x60W)
- AISG TMA & RET support (2 Bias-T, 1 ALD port)
- Type 4.3-10 RF connectors
- 2 external alarms
- IP 65, -40 to +55 °C



Portrait Mount Only

ERICSSON 4408 REMOTE RADIO HEAD - NEW

SCALE: 3
 N.T.S.

ERICSSON 8843 REMOTE RADIO HEAD - EXISTING

SCALE: 1
 N.T.S.

ELECTRICAL NOTES:

1. CONTRACTOR SHALL PERFORM ALL SITE SURVEY, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL PANELS, METERING EQUIPMENT, AND DISCONNECTS MEET THE LOCAL UTILITY'S REQUIREMENTS PRIOR TO ORDERING MATERIALS OR INSTALLING ELECTRICAL EQUIPMENT. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
2. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULL BOX, J-BOX, WITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.).
4. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.
6. ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED OR DIRECT BURIAL UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL CARRY OUT THEIR WORK IN ACCORDANCE WITH ALL GOVERNING ELECTRICAL CODES.
8. CONTRACTOR RESPONSIBLE FOR PERMITS AND PAY ALL REQUIRED FEES.
9. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
10. ALL CONDUIT SHALL HAVE A PULL WIRE OR ROPE.
11. PROVIDE PROJECT MANAGER WITH (2) SETS OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.
12. ALL MATERIALS SHALL BE U.L. LISTED.
13. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
15. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
16. GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER UNLESS OTHERWISE NOTED.
17. CONDUIT
 - A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3
 - B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTING SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT SHALL HAVE FULL SIZE EQUIPMENT GROUND WIRE.
 - D. UNDERGROUND CONDUIT SHALL BE P.V.C. SCHEDULE 80 (UNLESS NOTED OTHERWISE).
18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUND TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

2.0 DEFINITIONS

- AGB: ANTENNA GROUND BAR
- AWG: AMERICAN WIRE GAUGE
- CAD: WELDING: AN EXOTHERMIC WELDING PROCESS WHICH CREATES POSITIVE CONTACT OF POSITIVE CONTACT OF GROUNDING CONDUCTORS
- EMT: ELECTRICAL METAL TUBING (LIGHT GAUGE METAL CONDUIT) MGB MASTER GROUND BAR
- PVC: POLY VINYL CHLORIDE CONDUIT
- RFI: RADIO FREQUENCY INTERFERENCE
- THW: LETTER TYPE DESIGNATION FOR CONDUCTOR INSULATION THAT IS A MOISTURE AND HEAT RESISTANT THERMOPLASTIC WITH A MAXIMUM OPERATING TEMPERATURE OF 75 DEGREES CELSIUS OR 167 DEGREES FAHRENHEIT.

RF LANGUAGE:

1. PROPOSED VOLTAGE – THE POWER SUPPLIED TO THE SITE IS 120–240 VOLTS AC. THIS IS CONVERTED TO –48 VOLTS DC WHICH IS THEN SUPPLIED TO THE TRANSMITTERS.
2. MAXIMUM TRANSMISSION WATTAGE – THIS SITE WILL BE INSTALLED WITH (3) 28GHz/ 39GHz RADIOS WITH A MAX. OF 1 TOTAL WATT EA.
3. RADIO FREQUENCY – VERIZON WILL OPERATE ON THE FOLLOWING BAND: 28GHz/ 39GHz (TRANSMIT FROM 27,500 TO 28,300 MHz AND FROM 38,600 TO 39,400 MHz).
4. MICROWAVE EXPULSION – NO MICROWAVE RADIOS WILL BE USED AT THIS SITE.
5. MAXIMUM ALLOWABLE TRANSMISSION – THE FCC THRESHOLDS IN EIRP ARE AS FOLLOWS: PCS 1640 W/MHz, AWS 1640 W/MHz EIRP, LAA .05 W/MHz, CBRS 40 dBm (10 W) per 10 MHz, AND 28GHz/39GHz 75 dBm (31,623 W) per 100 MHz.



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PLANS PREPARED BY:

AARON ZIMMER
architect
mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

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NO.	DATE:	DESCRIPTION:	BY:
1	04/12/22	PRELIM CD SET	aZ
2	05/03/22	PRELIM CD REV1	aZ

ISSUE DATE:

MAY.03.2022

SITE INFORMATION:

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**1325 E. LAS VEGAS ST.
COLORADO SPRINGS, CO 80903
EL PASO COUNTY**

SEAL:

SHEET TITLE:

ELECTRICAL NOTES

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

GN-2

UPDATED 03/2022