



TOWN OF JACKSON PLANNING & BUILDING DEPARTMENT TRANSMITTAL MEMO

Town of Jackson

- ☒ Public Works/Engineering
☐ Building
☐ Title Company
☒ Town Attorney
☐ Police

Joint Town/County

- ☐ Parks and Recreation
☐ Pathways
☐ Joint Housing Dept

Teton County

- ☐ Planning Division

- ☐ Engineer
☐ Surveyor- *Nelson*
☐ Assessor
☐ Clerk and Recorder
☐ Road and Levee

State of Wyoming

- ☐ Teton Conservation
☐ WYDOT
☐ TC School District #1
☐ Game and Fish
☐ DEQ

Federal Agencies

- ☐ Army Corp of Engineers

Utility Providers

- ☐ Qwest
☐ Lower Valley Energy
☐ Bresnan Communications

Special Districts

- ☐ START
☐ Jackson Hole Fire/EMS
☐ Irrigation Company

<p>Date: May 28, 2024</p> <p>Item #: P24-088</p> <p>Planner: Katelyn Page</p> <p>Phone: 307-733-0440 ext. 1302</p> <p>Email: kpage@jacksonwy.gov</p> <p>Owner MONROE PARTNERS OLD WEST LLC PO BOX 12494 JACKSON, WY 83002</p> <p>Applicant: Verizon / Elevation Companies 4610 S Ulster St. STE 150 Denver, CO 80237</p>	<p>REQUESTS:</p> <p>The applicant is submitting a request for a Basic Use Permit to modify existing wireless communication facility located at 1150 W Highway 22 legally known as PT. SW1/4NE1/4, SEC. 32, TWP. 41, RNG. 116, (MOS T-30K & T-30L) PIDN: 22-41-16-32-1-00-047</p> <p>For questions, please call Katelyn Page at 307-733-0440, x1302 or email to the address shown below. Thank you.</p>
<p>Please respond by: June 18, 2023 (with Comments)</p>	

RESPONSE: For Departments not using Trak-it, please send responses via email to:
planning@jacksonwy.gov



PLANNING PERMIT APPLICATION
Planning & Building Department

150 E Pearl Ave. | ph: (307) 733-0440
P.O. Box 1687 | www.townofjackson.com
Jackson, WY 83001

For Office Use Only

Fees Paid _____ Date & Time Received _____
Application #s _____

Please note: Applications received after 3 PM will be processed the next business day.

PROJECT.

Name/Description: _____
Physical Address: _____
Lot, Subdivision: _____ PIDN: _____

PROPERTY OWNER.

Name: _____ Phone: _____
Mailing Address: _____ ZIP: _____
E-mail: _____

APPLICANT/AGENT.

Name: _____ Phone: _____
Mailing Address: _____ ZIP: _____
E-mail: _____

DESIGNATED PRIMARY CONTACT.

_____ Property Owner _____ Applicant/Agent

TYPE OF APPLICATION. Please check all that apply; review the type of application at www.townofjackson/200/Planning

Use Permit

_____ Basic Use
_____ Conditional Use
_____ Special Use

Relief from the LDRs

_____ Administrative Adjustment
_____ Variance
_____ Beneficial Use Determination
_____ Appeal of an Admin. Decision

Physical Development

_____ Sketch Plan
_____ Development Plan
_____ Design Review

Subdivision/Development Option

_____ Subdivision Plat
_____ Boundary Adjustment (replat)
_____ Boundary Adjustment (no plat)
_____ Development Option Plan

Interpretations

_____ Formal Interpretation
_____ Zoning Compliance Verification

Amendments to the LDRs

_____ LDR Text Amendment
_____ Map Amendment

Miscellaneous

_____ Other: _____
_____ Environmental Analysis

PRE-SUBMITTAL STEPS. To see if pre-submittal steps apply to you, go to www.townofjackson.com/200/Planning and select the relevant application type for requirements. Please submit all required pre-submittal steps with application.

Pre-application Conference #: _____ Environmental Analysis #: _____
Original Permit #: _____ Date of Neighborhood Meeting: _____

SUBMITTAL REQUIREMENTS. Please ensure all submittal requirements are included. The Planning Department will not hold or process incomplete applications. Partial or incomplete applications will be returned to the applicant. Go to www.townofjackson.com/200/Planning and select the relevant application type for submittal requirements.

Have you attached the following?

_____ **Application Fee.** Fees are cumulative. Go to www.townofjackson.com/200/Planning and select the relevant application type for the fees.


_____ **Notarized Letter of Authorization.** A notarized letter of consent from the landowner is required if the applicant is not the owner, or if an agent is applying on behalf of the landowner. Please see the Letter of Authorization template at <http://www.townofjackson.com/DocumentCenter/View/845/LetterOfAuthorization-PDF>.

_____ **Response to Submittal Requirements.** The submittal requirements can be found on the TOJ website for the specific application. If a pre-application conference is required, the submittal requirements will be provided to applicant at the conference. The submittal requirements are at www.townofjackson.com/200/Planning under the relevant application type.

- Construction start forecast: 8/5/24
- Verizon Wireless certifies that the request is being made pursuant to Section 6409 of the federal Middle Class Tax Relief and Job Creation Act of 2012, 47 U.S.C. 1455(a) and complies with all regulations set forth therein.
- Verizon Wireless complies with all non-discretionary codes.

Note: Information provided by the applicant or other review agencies during the planning process may identify other requirements that were not evident at the time of application submittal or a Pre-Application Conference, if held. Staff may request additional materials during review as needed to determine compliance with the LDRs.

Under penalty of perjury, I hereby certify that I have read this application and associated checklists and state that, to the best of my knowledge, all information submitted in this request is true and correct. I agree to comply with all county and state laws relating to the subject matter of this application, and hereby authorize representatives of Teton County to enter upon the above-mentioned property during normal business hours, after making a reasonable effort to contact the owner/applicant prior to entering.



Signature of Property Owner or Authorized Applicant/Agent

Date

Name Printed

Title

Verizon Wireless 60-Day Eligible Facility Request Modification of Existing Wireless Base Station

Request Date: 5/17/2024

Jurisdiction: *The Town of Jackson*

Departments: *Town of Jackson Planning Department*

Site Address: *1150 Wyoming Hwy 22 Jackson WY 83001*

Verizon Wireless Contact: *Chris Kennard, Elevation Wireless, (303)913-7527,
chris.kennard@elevationcompanies.com*

This document serves as Verizon Wireless's eligible facilities request to modify an existing wireless base station at the above-referenced site address. This eligible facilities request must be approved administratively under Section 6409 of the federal Spectrum Act and Federal Communications Commission ("FCC") rules. Review by the Town of Jackson is limited to determining whether the proposed modification qualifies as an eligible facilities request that does not substantially change the physical dimensions of the wireless base station. All permits necessary to commence construction must be approved within 60 days of the request date set forth above, subject to tolling for incompleteness.

For this request, Verizon Wireless attaches the following applications for all the permits required by the Town of Jackson to commence construction of the modification:

- *Planning Permit Application - BUP*

Verizon Wireless submits the application fees in the amount of \$601 with this application by check or electronic payment.

Project Description

The existing wireless facility owned by Monroe Partners Old West LLC was originally permitted through Building Department permit # DEV2003-0030 issued by the Town of Jackson. As currently installed, the facility consists of: *6 Roof mounted antennas within two canisters and one microwave dish..*

To accommodate new wireless technologies, Verizon Wireless proposes to *remove the 6 existing antennas and will replace with 6 new antennas and upgrade the cabling for the microwave dish..* No additional changes are proposed for the modification.

FCC Rules for Eligible Facilities Requests

The Spectrum Act states that “a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”¹ An “eligible facilities request” is defined to include any collocation, removal, or replacement of existing equipment.²

The FCC adopted rules providing legally binding guidance on key terms of the Spectrum Act, notably defining “substantial change” with the six thresholds described below.³ The FCC requires that qualifying eligible facilities requests be approved within 60 days, subject to tolling for incompleteness.⁴ The 60-day period begins when an applicant takes the first procedural step required by a local government, and submits written documentation.⁵ The only submittal documents a local government can require are those relevant to determining if a proposed modification qualifies as an eligible facilities request.⁶ If a local government does not render a decision within the 60-day period, an eligible facilities request can be deemed granted by operation of law.⁷

The Proposed Modification Does Not Constitute a “Substantial Change”

Below are the FCC’s six “substantial change” thresholds for a wireless base station,⁸ each followed by an explanation that the proposed modification does not exceed that threshold.

- 1) It increases the height of the structure by more than 10% or more than ten feet, whichever is greater.

The proposed modifications will not increase the height of the existing facility. Please reference page A-3 of the drawings.

- 2) It involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet.

The proposed modifications will not protrude more than 6' from the edge of the structure. Please reference page A-2 of the drawings.

- 3) It involves the installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four; or, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure.

There will not be any new equipment cabinets installed. Verizon will be utilizing existing equipment cabinets. Please reference page A-1 of the drawings.

- 4) It entails any excavation or deployment of transmission equipment outside of the current site by more than 30 feet in any direction. The site boundary from which 30 feet is measured excludes any access or utility easements currently related to the site. The “site” is as defined at 47 C.F.R. § 1.6100(b)(6).

No excavation is required for this modification.

- 5) Would defeat the concealment elements of the eligible support structure.

The proposed modifications will not defeat the concealment elements. Please reference page A-2 and A-3.

- 6) Does not comply with conditions associated with the siting approval of the construction or modification of the existing facility, unless the non-compliance is due only to a change in height, width, etc., that does not exceed the first four thresholds.

There are no prior conditions of approval that would render the modification to be non-compliant, aside from any conditions that would be preempted by the first four “substantial change” thresholds.

Verizon Wireless is providing a radio frequency exposure compliance report prepared by Jennifer Sedillo that confirms that the facility, as modified, will continue to comply with the FCC’s radio frequency exposure limits.

In sum, the modification clearly qualifies as an “eligible facilities request” under the Spectrum Act and FCC rules, because it does not exceed any of the thresholds such that it would “substantially change” the physical dimensions of the existing wireless base station. Failure to process this eligible facilities request and approve all necessary permits within 60 days may result in the request being deemed granted by operation of law.

¹ 47 U.S.C. § 1455(a)(1).

² 47 U.S.C. § 1455(a)(2).

³ *See* Report and Order FCC 14-153, 29 FCC Rcd. 12865 (FCC October 17, 2014); *see also* Report and Order FCC 20-153, 85 FR 78005 (FCC October 27, 2020).

⁴ *See* 47 C.F.R. § 1.6100(c)(2), (3).

⁵ Declaratory Ruling 20-75, 35 FCC Rcd 5977, ¶ 16 (FCC June 9, 2020).

⁶ *See* 47 C.F.R. § 1.6100(c)(1).

⁷ *See* 47 C.F.R. § 1.6100(c)(4).

⁸ *See* 47 C.F.R. § 1.6100(b)(7).

Z:\1_CLIENTS\VERIZON\SMALL CELLS\2022\2C-BAND WY\GROS VENTRE\WY_1.DWG Thursday, August 10, 2023 10:04:04 AM

PROJECT INFORMATION		
VZW SITE ID:	WY3 - GROS VENTRE	
LATITUDE:	43.473256°	
LONGITUDE:	-110.790614°	
PROJECT JURISDICTION:	JACKSON	
PROJECT TYPE:	EXISTING ROOFTOP	
ZONING CLASSIFICATION:		
		RE: DETAIL NUMBER
STRUCTURE HEIGHT	21'-0"	A-3
B.O. CBand ANTENNA	27'-1"	1 / A-4
EQUIPMENT AREA LOCATION:	2nd FLOOR EQUIPMENT RM	A-2
NUMBER / SIZE OF CONDUITS	(2) FOR M/W	A-7
WIND LOAD	105mph, 3-GUSTS	
	ISSUE DATE:	
RFDS:	2/26/2023	by Benjamin Floyd
RFDS:	6/13/23	by Jonathan Hanson
MA + SA:	4/21/23	by Kimley-Horn

CONTACT INFORMATION

VERIZON WIRELESS:

CONSTRUCTION ENGINEER:
VERIZON WIRELESS PROJ. MNGR.
CONTACT: CLIFF HIEB
PHONE: 208-251-7500

RF ENGINEER:
DESIGN ENGINEER
CONTACT: BENJAMIN FLOYD
PHONE: 501-804-1806

REAL ESTATE SPECIALIST:
VZW SPECIALIST - NETWORK ENGINEER
CONTACT: PAIGE GARDINER
PHONE: 801-703-1554

M/W RF ENGINEER:
DESIGN ENGINEER
CONTACT: JONATHAN HANSEN
PHONE: 307-752-9961

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

SITE ACQ. AGENT FOR VZW:
ELEVATION WIRELESS
CONTACT: CHRIS KENNARD
PHONE: 303-913-7527

MOUNT ANALYSIS:
KIMLEY-HORN
CONTACT: MATT FLECK
PHONE: 303-902-5041



EXISTING INSTALLATION

ALL ANTENNAS (6X) HIDDEN BEHIND EXISTING STEALTH CANISTERS

EQUIPMENT LOCATED IN STORAGE ROOM IN UPPER FLOOR

(E) M/W DISH TO BE UPGRADED

VERIZON WIRELESS

SITE NAME: **WY3 - GROS VENTRE**
MACRO SITE C-BAND MODIFICATION/UPGRADE

LAT: 43.473256°
LONG: -110.790614°
1150 WYOMING HWY 22
JACKSON, WY 83001

VICINITY MAP



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-3	ELEVATIONS
A-4	SCREEN WALL DETAILS
A-5	RF ANTENNA DETAILS
A-6	RF ANTENNA DETAILS
A-7	RF MICROWAVE DETAILS
GN-1	GENERAL SITE AND UTILITY NOTES
GN-2	GENERAL SITE AND RF NOTES
EME-1	EME NOTES AND SIGNAGE
EME-2	EME NOTES AND SIGNAGE
EME-3	EME NOTES AND SIGNAGE
S-0	STRUCTURAL GENERAL NOTES
S-1	CANISTER DESIGN
S-2	CANISTER DESIGN
S-3	CANISTER DESIGN

PROJECT DESCRIPTION

EXISTING MACRO CELL SITE LOCATED IN JACKSON, WYOMING.

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.

EXISTING MICROWAVE DISH WILL BE UPGRADED WITH NEW RADIOS AND NEW COAX. EXISTING RADIOS/COAX WILL BE REMOVED.

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.

verizon

PLANS PREPARED BY:



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If any mistakes, omissions, and/or discrepancies are found to exist within the work product, the Architect shall be notified immediately. Failure to promptly notify the Architect of such conditions shall absolve the Architect from any responsibility for the consequences of such failure. Modifications or contradictions to the plans taken without the knowledge, consent, or recommendation of the Architect shall transfer all responsibility to the parties taking said actions.

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2	06/05/23	STAMPED CD SET	aZ
3	08/10/23	STAMPED CD SET	aZ

ISSUE DATE:

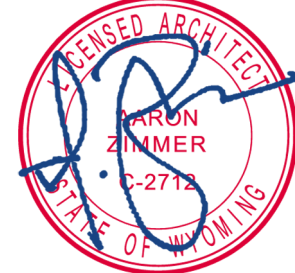
AUG.10.2023

SITE INFORMATION:

WY3 - GROS VENTRE

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY

SEAL:



AUG.10.2023

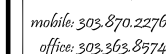
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TITLE SHEET

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

T-1



—aZ@ZYmR.co

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ISSUE DATE:

SITE INFORMATION:

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY

SEAL:



SHEET TITLE:

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

AS-1



MONUMENT FOUND AS DESCRIBED

SITE BENCHMARK

VENT PIPE

ROOF VENT

INDEX CONTOUR

INTERMEDIATE CONTOUR

WATERLINE

OVERHEAD UTILS

GAS LINE

STORM SEWER

CHAIN LINK FENCE

NEW ELEC. LINE

NEW FIBER LINE

WATER METER

ELECTRIC METER

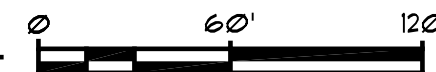
BOLLARD/POST

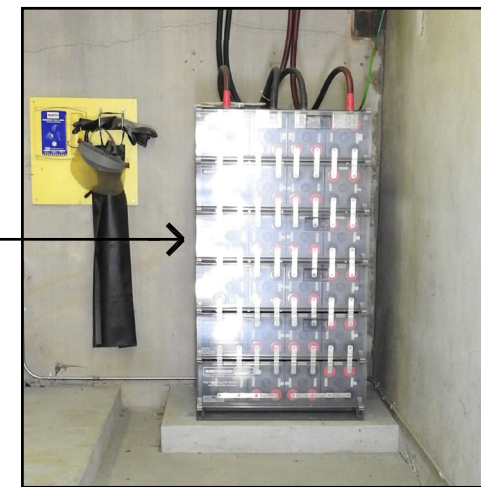
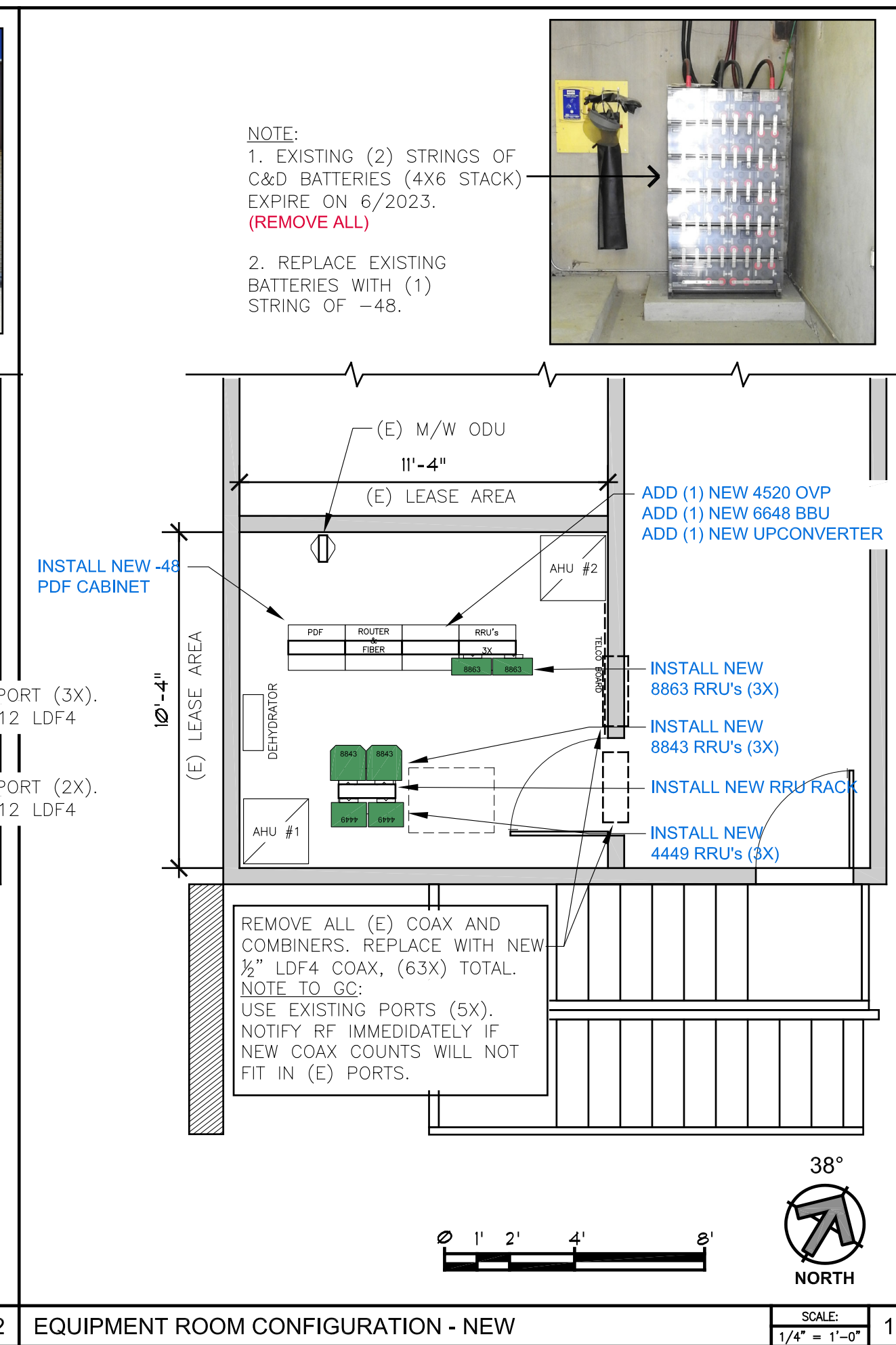
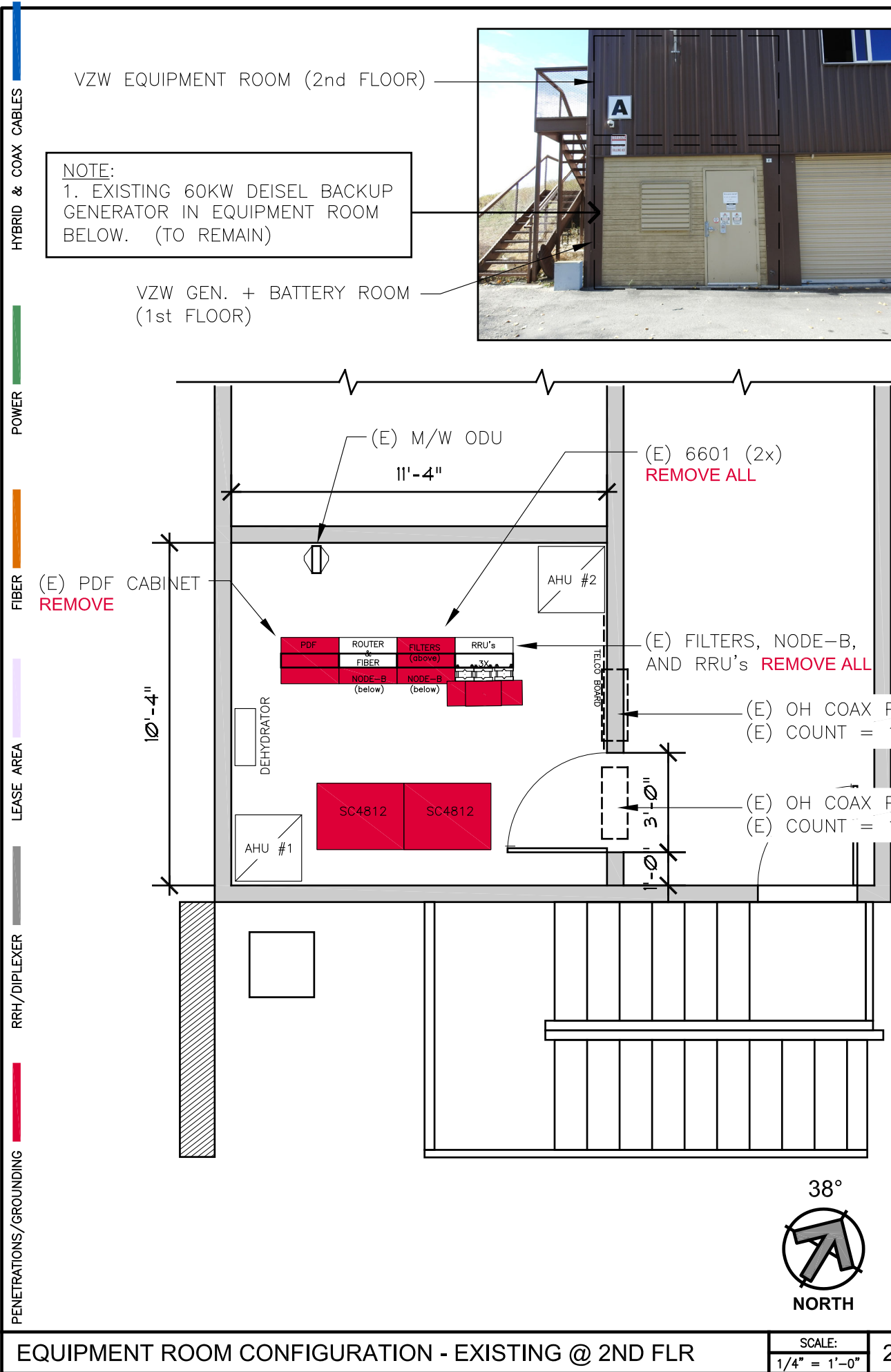
UTILITY POLE

GUY WIRE

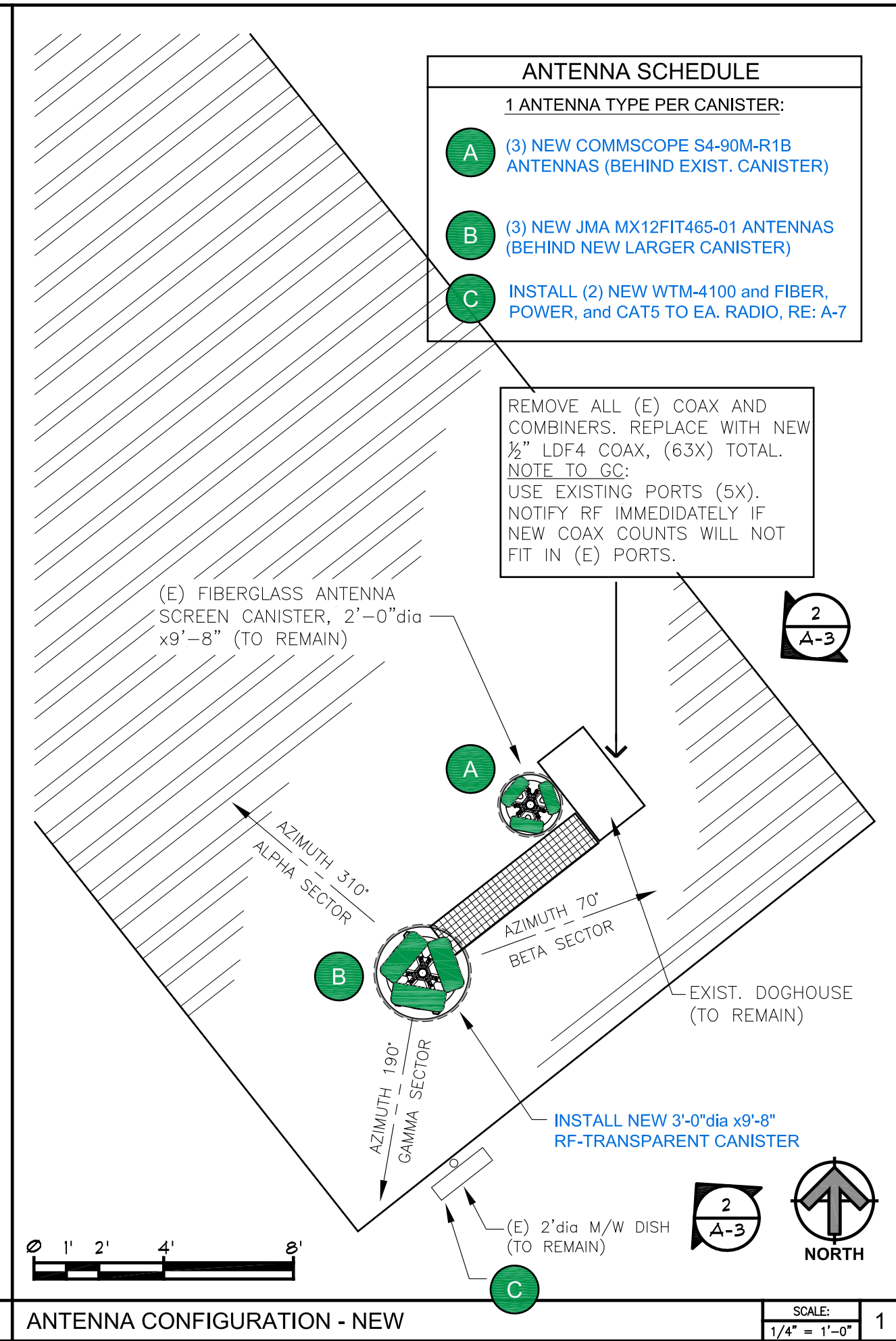
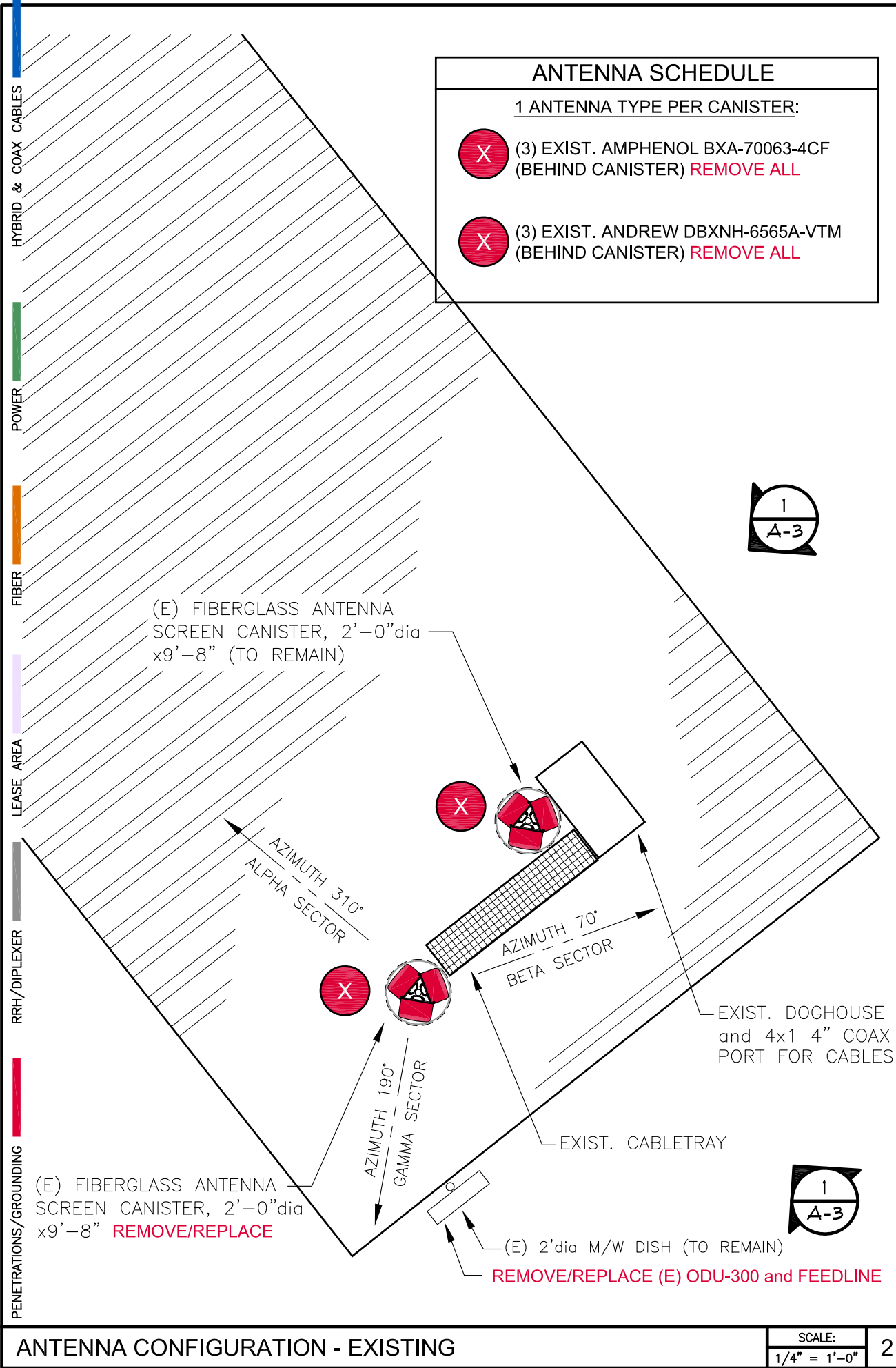
NOTE:
GC TO CONFIRM ALL U.G. EXISTING
UTILITIES PRIOR TO CONSTRUCTION.

SITE PLAN

$$I'' = 6\phi' - \phi'$$




Z:\1 CLIENTS\VERIZON\SMALL CELL\2022\2C-BAND WY\GROS VENTRE\WY 83001 DWG Thursday, August 10, 2023 10:04:04 AM



verizon

PLANS PREPARED BY:

ZYmR.s

mobile: 303.870.2276
office: 303.363.8574
aZ@ZYmR.co

AARON ZIMMER
architect

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3	08/10/23	STAMPED CD SET	aZ

ISSUE DATE:

AUG.10.2023

SITE INFORMATION:

WY3 - GROS VENTRE

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY

SEAL:

ARCHITECT
AARON ZIMMER
C-2712
STATE OF WYOMING

AUG.10.2023

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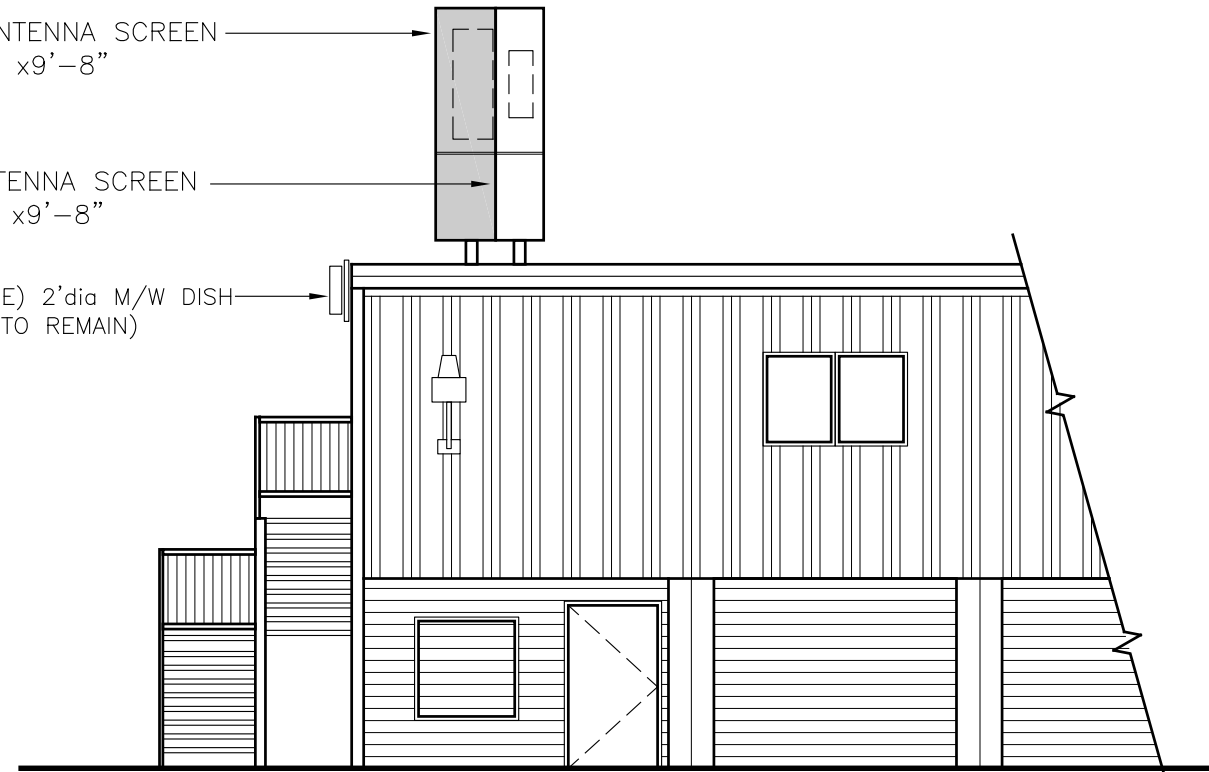
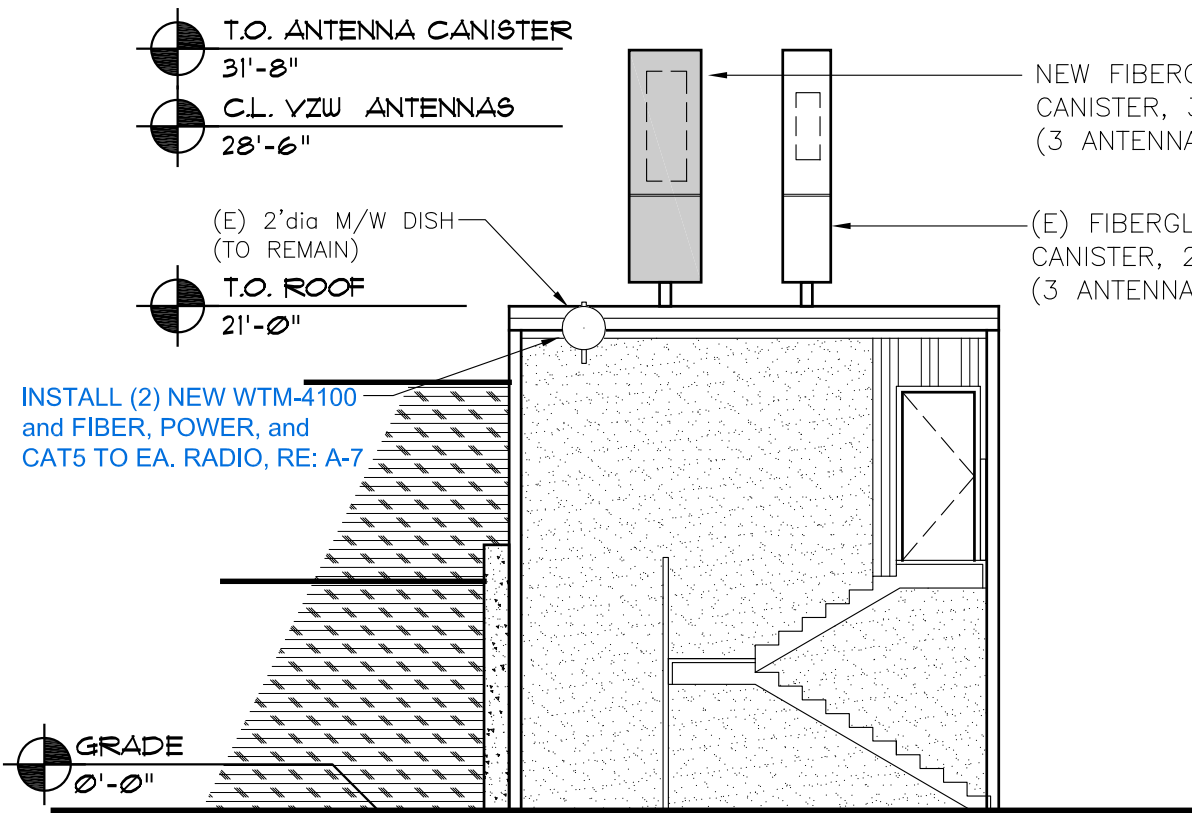
ENLARGED ANTENNA PLAN

5G L-SUB6 - CARRIER ADD

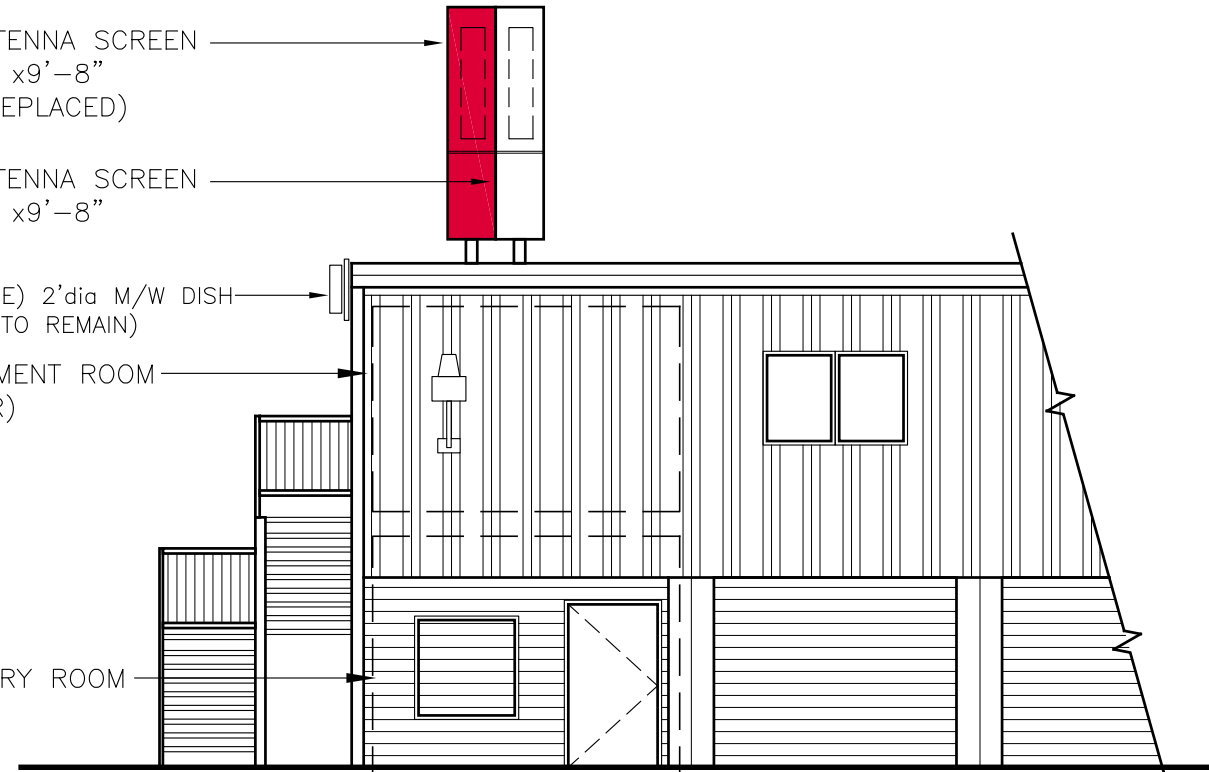
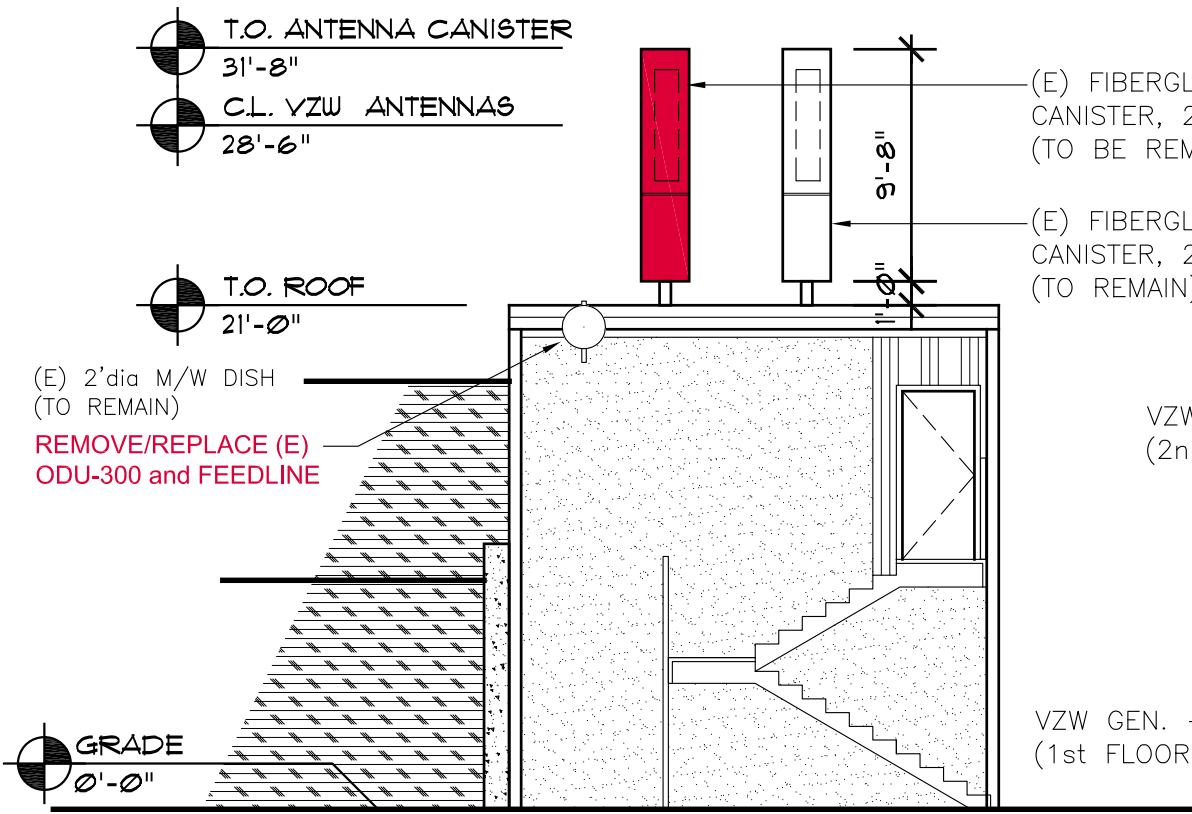
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A-2

Z:\1_CLIENTS\VERIZON\SMALL CELLS\2022\2C-BAND WYGROS VENTRE\W1.DWG Thursday, August 10, 2023 10:04:04 AM



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



0 2' 4' 8' 16' SCALE: 1/8" = 1'-0" 1

EXISTING ELEVATION - SOUTH ELEVATION

EXISTING ELEVATION - EAST ELEVATION



PLANS PREPARED BY:

ZYmR.s

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office: 303.363.8574
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AARON ZIMMER
architect

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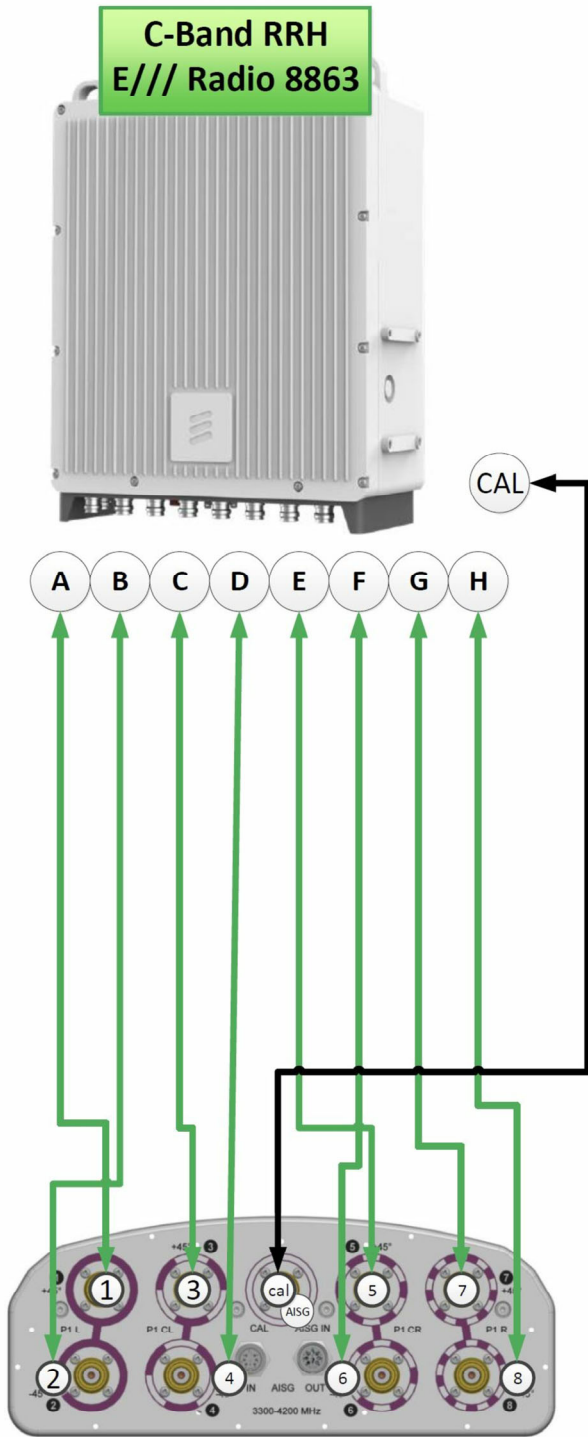
SITE ELEVATION

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

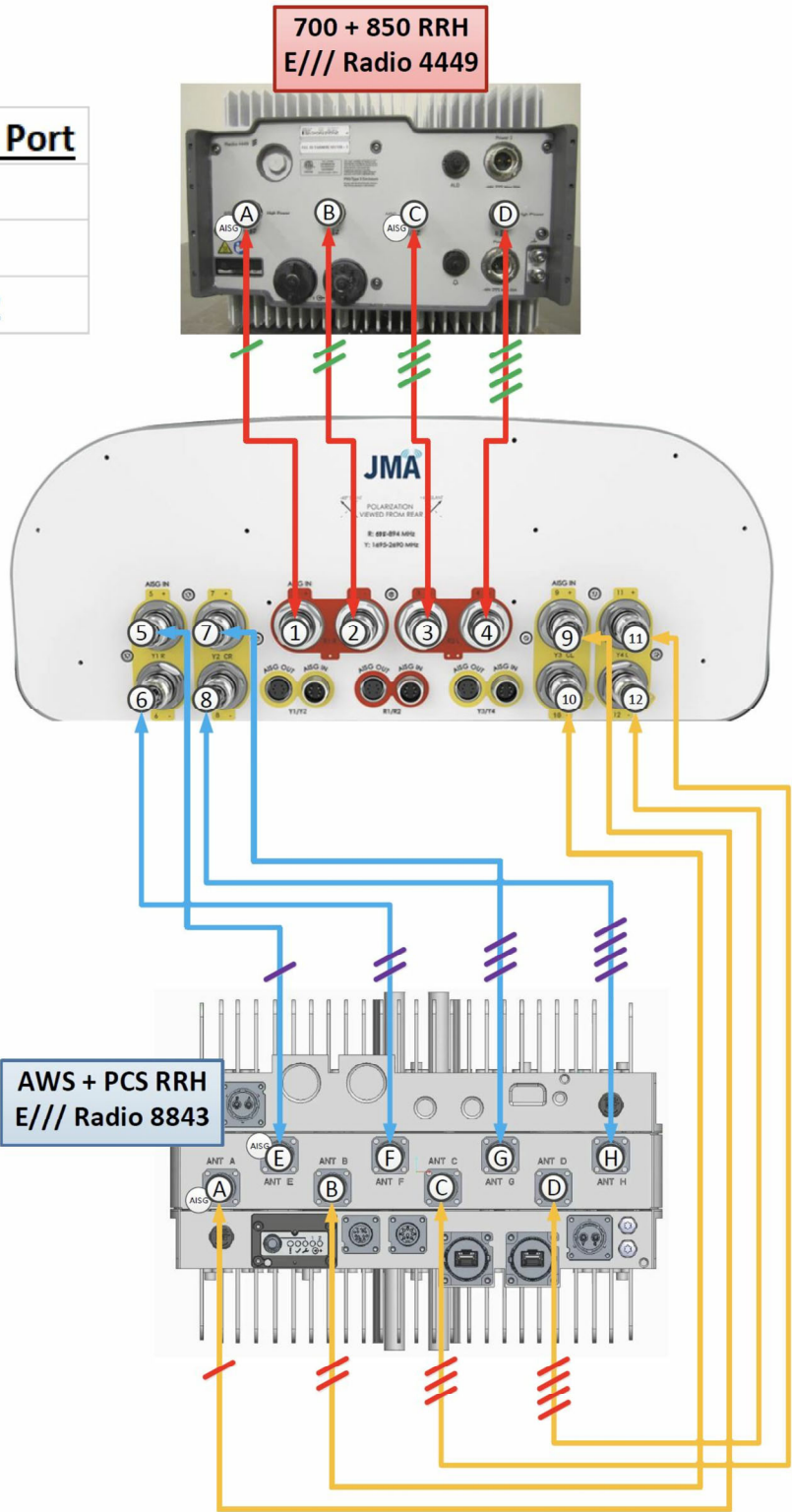
A-3

Commscope S4-90M-R1B
per sector



JMA MX12 FIT 4/6/8 65
per sector

Radio	Port	Antenna Port
4449	A-D	1-4
8843	E-H	5-8
8843	A-D	9-12



PLANS PREPARED BY:



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

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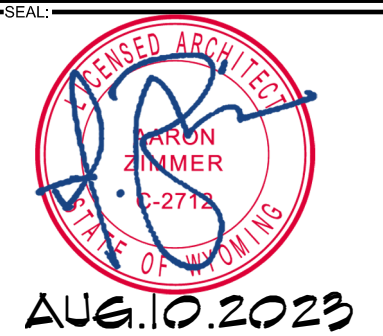
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SITE INFORMATION:
WY3 - GROS VENTRE

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY



SHEET TITLE:

RF DETAILS
5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

A-4

Z:\1_CLIENTS\VERIZON\SMALL CELLS\2022\2022C-BAND WY\GROS VENTRE\W1.DWG Thursday, August 10, 2023 10:04:04 AM

RFDS DATE: 2/26/2023

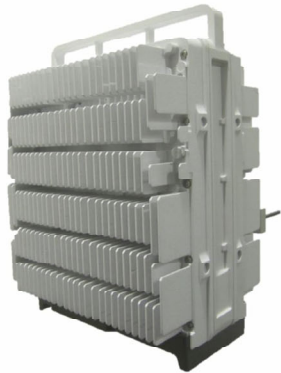
NOTE:
ALL EXISTING ANTENNAS AND RADIOS WILL
BE REMOVED/REMOVED/REPLACED WITH
NEW MOUNTS, ANTENNAS, AND RADIOS.

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



NOT USED

SCALE:
N.T.S.

4

ERICSSON 4449 REMOTE RADIO HEAD - NEW

SCALE:
N.T.S.

2

RADIO 8863 B77D/C-BAND – MAX
DIMENSIONS

- › 8TX/8RX
- › Support split mode (2 x 4T4R as multi-sector solution)
- › Tx Power 8x40W
- › 200 MHz IBW TDD

Radio 8863 B77D/ C-Band	Height	Width	Depth	Weight
Without handle	16.5 In (420 mm)	14.8 In (375 mm)	6.3 In (160 mm)	57.4 lbs (< 26 Kg)
With handle	18.9 In (478 mm)	14.8 In (375 mm)	6.3 In (160 mm)	



- › 2 x 25 Gbps CPRI, (compatible to 10G) CPRI SFP28
- › External antenna calibration (AC)
- › -48 VDC, max ~ 1360W (80%TX-20%RX)
- › AISG RET support via RS-485 or 2 RF connectors/ AC RF port
- › Convectional cooling, Optional fan for increased site flexibility
- › 2 external alarm
- › IP 65, -40 to +55 °C (Incl Solar Load)

ERICSSON 8863 REMOTE RADIO HEAD - NEW

SCALE:
N.T.S.

3

ERICSSON 8843 REMOTE RADIO HEAD - NEW

SCALE:
N.T.S.

1

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

verizon

PLANS PREPARED BY:



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NO.	DATE:	DESCRIPTION:	BY:
1	03/27/23	PRELIM CD SET	aZ
2	06/05/23	STAMPED CD SET	aZ
3	08/10/23	STAMPED CD SET	aZ

ISSUE DATE:

AUG.10.2023

SITE INFORMATION:

WY3 - GROS VENTRE

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY

SEAL:



AUG.10.2023

SHEET TITLE:

RF DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

A-5

Z:\1_CLIENTS\VERIZON\SMALL_CELL\2022\2C-BAND WVA\GROS VENTRE\WY_3\DWG - Thursday, August 10, 2023 10:04:04 AM

RFDS DATE: 2/26/2023

S4-90M-R1B



8-Port Beamforming Antenna, 3300-4200 MHz, 1x RET

- Planer array antenna - 4 columns
- Single internal RET control for all four antenna arrays
- Designed for beamforming, including calibration port
- Optimized for software defined split six sector applications
- Fits in the CommScope AEKT solution
- Internal SBT on the calibration port allow remote RET control from the radio over the RF jumper cable

Dimensions

Width	307 mm 12.087 in
Depth	118 mm 4.646 in
Length	850 mm 33.465 in
Net Weight, without mounting kit	8.5 kg 18.739 lb

COMMSCOPE S4-90M-R1B ANTENNA DATA SHEET

SCALE:
N.T.S.

2



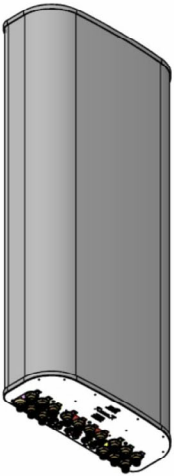
MX12FIT465-01

NWAV™ X-Pol 12-Port Antenna

X-Pol 12-Port 4 ft, 65° Form In Tighter, with Smart Bias Ts, 698-2690 MHz:

4 ports 698-894 MHz, 8 ports 1695-2690 MHz

- 12-Port antenna offering the same functionality as 2 Hex Port antennas in a single unit
- Full mid band arrays for maximum gain
- Fully integrated (iRETs) with independent RET control for low band and mid band
- Excellent passive intermodulation (PIM) performance reduces harmful interference.
- SON-Ready array spacing supports beamforming capabilities.
- Suitable for 3G, 4G, and 5G interface technologies
- Integrated Smart Bias-Ts reduce leasing costs
- Optimized form factor for reduced wind loading



NWAV™

JMA MX12FIT465-01 ANTENNA DATA SHEET

SCALE:
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1



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SEAL:



AUG.10.2023

SHEET TITLE:

RF DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

A-6

M/W RFDS DATE: 6/13/2023

LEONI Cable (China) Co., Ltd.

Technisches Datenblatt - Technical Data Sheet - Technisches Datenblatt - Technical Data Sheet - Technisches Datenblatt

Power Cable 2x16AWG

ART NUMBER	DESCRIPTION	LENGTH "L"
7-579673-100	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 100m Term	100m±1%
7-579673-050	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 50m Term	50m±1%
7-579673-010	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 10m Term	10m±1%
7-579673-500	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 500m Term	500m±1%
7-579673-075	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 75m Term	75m±1%
7-579673-150	Cable, PWR 2 Core Blue/Grey, 2x16AWG, 3WIRE, 150m Term	150m±50mm

PACKAGING DETAILS

See Sheet 2 for PWR Connector Installation

Aviat NETWORKS

LEONI

1. Patchcord Length

Length L	Tolerance T
L < 1.0m	+0.05/-0 m
1.0m ≤ L < 20m	+0.10/-0 m
20m ≤ L	+1% x L-0m

2. Connector Test Specifications

Parameters	Specifications
Insertion Loss	≤0.30dB
Return Loss	≥50.0dB
Durability(1000Mating)	0.2dB Max.increase
Operating Temperature	-40℃~75℃
Storage Temperature	-40℃~85℃

HJ3-W Inc

NOTE: 1. Cable is UV resistance and fiber rated
2. Cable assembly is RoHS 6 compliant

13 LC Duplex Clip (Blue)

12 LC/UPC SM Duplex Connector 3.0mm (Blue)

11 Serial Number Label

10 Ø3.0 Metal Shell Protection L=480mm

9 Ø3.0 Metal Shell Protection L=45mm

8 Gland(Model No:28)

7 SM 9/125 OM3D 2 Core 2.3mm OD7.3mm LSZH Cable (Black)

6 Ø7.3 Outer Black Heatshrink Tube L=30mm

5 Ø2.0 unit cable

4 Labeling Ring (A1/A2/B1/B2)

3 LC 3.0 Short Boot (White L=20mm)

2 LC/UPC SM Simplex Connector 3.0mm (Blue)

1 LC Dust Cap (Clear)

HJ3-W INC. FIBER CABLE MANUFACTURER DATA SHEET

Radio Type	Dimension A	Dimension B	Dimension C	Weight
WTM4100 (E-Band)	295	109.5	271	5.5
WTM4200 (E-Band)	295	128	271	8.5
WTM4800 (E-Band)	295	112.5	271	7.5

Aviat NETWORKS



PLANS PREPARED BY:

ZYmR.6

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SHEET TITLE:

MICROWAVE RF DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

A-7

LEONI POWER CABLE MANUFACTURER DATA SHEET

N.T.S.

3

AVIAT WTM-4100 RADIO MANUFACTURER DATA SHEET

SCALE:
N.T.S.

1

Z:\1_CLIENTS\VERIZON\SMALL CELLS\2022\2C-BAND W\WGROS-VENTRE\WY_GROS-VENTRE R1.DWG Thursday, August 10, 2023 10:04:04 AM

GENERAL NOTES:

CODES:

- (1) AT A MINIMUM, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2017 REGIONAL BUILDING CODE AS ADOPTED BY PPRBD, AND THE FOLLOWING:
- (A) 2015 VERSION OF THE INTERNATIONAL BUILDING CODE.
 - (B) FOR ELECTRICAL, REFERENCE AND COORDINATE WITH 2017 NATIONAL ELECTRIC CODE.
 - (C) FOR VERIZON STANDARDS USE NETWORK STANDARD VERIZON GUIDELINES.
 - (D) AMERICAN CONCRETE INSTITUTE, ACI 318–05, STANDARD BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - (E) AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 9TH EDITION, MANUAL OF STEEL CONSTRUCTION.
 - (F) AMERICAN WELDING SOCIETY, AWS D1.1 2002 EDITION, STRUCTURAL WELDING CODE.
 - (G) STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS: ANSI/TIA–222–G–2009
- (2) THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PRESENT CONDITION OF ANY EXISTING BUILDINGS, LANDSCAPING, FENCING, EQUIPMENT, WALKS, DRIVES, AND ATTACHMENTS. IF ANY DAMAGE SHOULD OCCUR, THE CONTRACTOR IS RESPONSIBLE TO RESTORE THE DAMAGE TO A BETTER OR NEW CONDITION.
- (3) THE NEW SMALL CELL IS UNMANNED AND NOT FOR HUMAN HABITAT. (HANDICAP ACCESS IS NOT REQ'D).
- (4) OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH.
- (5) DETAILS AND SCHEMATICS ARE TO PROPOSED TO SHOW END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY DEEM TO BE NECESSARY TO SUIT JOB CONDITIONS AND DIMENSIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- (6) CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND WITH COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- (7) DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT LOCATIONS WITH CONSTRUCTION MANAGER.
- (8) THE DRAWINGS AND SPECIFICATIONS ARE A GENERAL DIRECTIVE FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO CONSTRUCTION MANAGER PRIOR TO COMMENCING THE RELATED WORK. ANY MINOR ERRORS OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS, DOES NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- (9) PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, STRUCTURAL AND ELECTRICAL INSTALLATIONS AND SHALL ADJUST BID ACCORDINGLY.
- (10) CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS, DIMENSIONS, AND UTILITY LOCATIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN BEFORE PROCEEDING.
- (11) NOTIFY CONSTRUCTION MANAGER OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- (12) INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE CODES OR REGULATIONS TAKE PRECEDENCE.
- (13) ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
- (14) ALL EQUIPMENT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK AND CLEARANCE REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.
- (15) ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS. CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF GOVERNING AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- (16) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS–BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION. TWO COPIES OF REDLINED DRAWINGS WILL BE PROVIDED TO CONSTRUCTION MANAGER.
- (17) PHOTOS SHALL BE TAKEN OF THE SITE AT THE REQUEST OF THE CONSTRUCTION MANAGER. ALL WORK TO BE BURIED OR HIDDEN MUST BE PHOTOGRAPHED AND INSPECTED BY CONSTRUCTION MANAGER PRIOR TO BACK FILLING ETC. UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER.
- (18) ALL WORK IS BEING PERFORMED IN VARIOUS RIGHT–OF–WAY AND PROPERTY LOCATIONS. VERIFY ALL EQUIPMENT LOCATION/INSTALLATIONS WITH SURVEYED DATA. CONTRACTOR SHALL COORDINATE WITH OWNER’S REPRESENTATIVE FOR PROPER STORAGE LOCATIONS FOR MATERIALS.
- (19) ALL WORK FOR CONSTRUCTION SHALL TAKE PLACE BETWEEN THE HOURS OF 7 A.M. TO 9 P.M., MONDAY THROUGH FRIDAY AND 8 A.M. TO 5 P.M. ON SATURDAYS. IF THERE IS AN ANTICIPATED NEED TO WORK OUTSIDE OF THE EXEMPTED HOURS FOR CONSTRUCTION, CONTRACTOR WILL NEED TO MAKE A REQUEST FOR NIGHTTIME NOISE VARIANCE AS ALLOWED BY THE CITY.

SITE WORK:

- (1) RELATED WORK: CONSTRUCTION OF FOUNDATIONS, GROUNDING SYSTEM, AND UTILITY TRENCHES.
- (2) QUALITY ASSURANCE:
- (A) GRASS SEEDS SHALL BE APPLIED AND MAINTAINED AS RECOMMENDED BY THE CITY.
 - (B) VEGETATION LANDSCAPING WILL BE PLACED AND MAINTAINED, IF REQ'D. BY THE CITY.
- (3) WARRANTY:
- (A) IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND REPAIR AREA BACK AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE TO LEASE AREA PROPERTY OR SURROUNDING CAUSED BY CONSTRUCTION.
 - (B) DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
 - (C) LANDSCAPING SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
- (5) ALL FILL DIRT SHALL BE CLEAN AND NATURAL, FREE FROM ANY DELETERIOUS MATERIALS, ROOTS, ICE, SNOW, AND RUBBISH.
- (6) ALL FILL OR STONE WILL BE PLACED IN MAXIMUM 8” LIFTS PRIOR TO COMPACTING.
- (7) THE CONTRACTOR IS RESPONSIBLE TO ENSURE GROWTH OF THE SEED AND LANDSCAPING AREAS BY WATERING, STRAW, MULCH NET AND ANY OTHER PROPER LANDSCAPING METHOD NECESSARY.
- (8) THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTORS EXPENSE.
- (9) THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND FIBER LINES.
- DEMOLITION:**
1. EXISTING WORK AND SITE CONDITIONS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, WORK DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING WORK.
2. AT THE END OF EACH WORK DAY AND DURING INCLEMENT WEATHER, CLOSE ALL EXTERIOR OPENINGS WITH WEATHERPROOF COVER.
3. DEMOLITION SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST. REMOVE DEBRIS AND RUBBISH FROM THE SITE DAILY. DO NOT ALLOW DEBRIS AND TRASH TO ACCUMULATE ON SITE.
4. INSPECTIONS: REQUIRED BUILDING INSPECTORS SHALL BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS. UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
5. THE CONTRACTOR SHALL ORDER A FULL UTILITY LOCATE SERVICE PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR AND SUB–CONTRACTORS SHALL VERIFY ALL UTILITY SERVICE CONNECTION LOCATIONS AND VERIFY ALL DIMENSIONS AND NOTES PRIOR TO PROCEEDING WITH WORK. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, IRRIGATION, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, UTILITIES SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND PAFB.
8. THE CONTRACTOR SHALL COORDINATE LOCATION OF POLE AND EQUIPMENT WITH THE SURVEYOR OF RECORDED PRIOR TO COMMENCING WORK.
9. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
10. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, NOR SHALL ANY FROZEN MATERIALS, SNOW OR ICE BE PLACED IN FILL OR EMBANKMENT.
11. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
12. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. ALL DISTURBED LANDSCAPING SHALL BE REPLACED, RESEEDDED, AND REGROWN TO MATCH THE ORIGINAL CONDITION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
14. LANE CLOSURES, IF REQUIRED, OR OBSTRUCTIONS SHALL BE PROPERLY COORDINATED WITH CITY R.OW.

UTILITY NOTES:

- (1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PROJECT PERMITS ASSOCIATED WITH CONSTRUCTION AND RELATED ACTIVITIES SUCH AS STREET OCCUPANCY, STREET CUT, EROSION CONTROL, AND PARK PERMITS.
- (2) THE CONTRACTOR SHOULD REMOVE MATERIALS AND EQUIPMENT FROM THE ROW BY THE COST OF DAILY OPERATIONS.
- (3) THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE COPY OF THE APPROVED PLANS, SPECIFICATIONS, AND STANDARDS ON THE JOB SITE AT ALL TIMES.
- (5) THE CONTRACTOR SHALL NOTIFY PUBLIC WORKS RIGHT OF WAY FOR ANY CONSTRUCTION INSPECTIONS TWO DAYS BEFORE COMMENCING WORK IN THE ROW, AND UPON COMPLETION OF THE WORK.
- (6) ALL WORK, INCLUDING CORRECTION WORK, IS SUBJECT TO NOTIFICATION AND INSPECTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- (7) ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY CURRENT OSHA REGULATIONS. CONTRACTOR SHALL ACCEPT SOLE LIABILITY AND RESPONSIBILITY FOR COMPLYING WITH ALL CURRENT OSHA REGULATIONS APPLICABLE TO ALL WORK IN PLANS.
- (8) UTILITY PLAN REVIEW AND APPROVAL DOES NOT CONSTITUTE APPROVAL FOR ANY WORK ON, OVER, IN, OR UNDER PRIVATE PROPERTY.
- (9) PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULING. SHOULD ANY CONFLICTS OR INTERRUPTIONS IN SERVICE BE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY SCHEDULING.
- (10) THE CONTRACTOR SHALL MAINTAIN AT LEAST A 10’ CLEAR ZONE TO UTILITIES AT ALL TIMES IN ACCORDANCE WITH CITY STANDARDS.
- ROADWAY NOTES:**
- (1) ANY PORTION OF CONSTRUCTION OCCURRING IN THE PUBLIC ROADWAY SHALL COMPLY WITH THE PROVISIONS OF THE MOST CURRENT VERSION OF THE CITY STANDARD SPECIFICATIONS AND DETAILS.
- (2) MATERIAL REMOVED FROM ANY PORTION OF THE ROADWAY SECTION MUST BE REPLACED IN ACCORDANCE WITH THE PUBLIC WORKS RULES AND REGULATIONS GOVERNING STREET CUTS.
- (3) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE TRAFFIC CONTROL THROUGHOUT THE PROJECT, INCLUDING PROPER TRAFFIC CONTROL DEVICES AND/OR PERSONNEL AS REQUIRED. AN APPROVED TRAFFIC CONTROL PLAN IS SUBJECT TO CDOT AND/OR ROW INSPECTION FOR APPROVAL PRIOR TO COMMENCING WORK IN PUBLIC ROW.
- (4) PRIOR TO PROJECT CLOSE–OUT, ALL DISTURBED PORTIONS OF THE CITY ROW SHALL BE CLEANED UP AND RESTORED TO THEIR ORIGINAL CONDITION, SUBJECT TO CITY APPROVAL.
- (5) RESTORATION IS REQUIRED FOR ANY HOLES OR CUTS MADE IN WALKING AND/OR PAVED SURFACES, INCLUDING TEST HOLES OR POTHOLING FOR INVESTIGATION ACTIVITIES FOR ANY LOCATES. PERMANENT PATCHING OF POTHOLES OR CUTS IS ALSO REQUIRED IN ASPHALT AND CONCRETE PAVEMENTS. ALL RESTORATION SHALL BE PER CITY TRANSPORTATION STANDARDS AND DETAILS.
- (6) THE CONTRACTOR SHALL PROTECT ALL STORM SEWER INLETS LOCATED ADJACENT TO THE WORK.
- (7) THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS GENERATED BY CONSTRUCTION ACTIVITIES INTO THE CITY STORM SEWER SYSTEM IS STRICTLY PROHIBITED. DON'T BE A COUSIN EDDIE.
- (8) THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS, AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- (9) CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY CONSTRUCTION ON A DAILY BASIS. DO NOT LEAVE CONSTRUCTION DEBRIS ON–SITE. THE CITY REQUIRES THAT IMPERVIOUS SURFACES WHICH ARE ADJACENT TO OR CONTAINED WITHIN THE CONSTRUCTION SITE BE SWEEPED ON A DAILY BASIS OR AS–NEEDED DURING THE DAY WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF A MACHINE IS ACCEPTABLE.
- (10) THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY.
- PRE–CONSTRUCTION PERMITTING NOTES:**
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEERING SUPERVISOR AT THE BUILDING DEPARTMENT TO OBTAIN THE NECESSARY CONSTRUCTION PERMITS.
2. APPLICANT SHALL COORDINATE THE CLOSURE OF DRIVEWAYS IN THE PROJECT AREA WITH THE ADJACENT PROPERTIES. ACCESS MUST BE PROVIDED TO ALL BUILDINGS DURING CONSTRUCTION.

UPDATED 03/2022



PLANS PREPARED BY:



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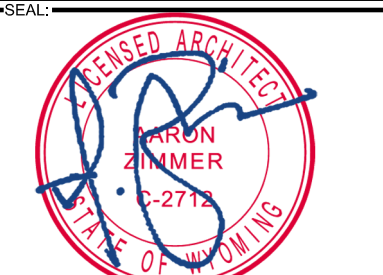
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SITE INFORMATION:

WY3 - GROS VENTRE

**1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY**

SEAL:



AUG.10.2023

SHEET TITLE:

**GENERAL, SITE,
UTILITY, and DEMO
NOTES**

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

GN-1

Z:\1_CLIENTS\VERIZON\SMALL CELLS\2022\2C-BAND WY\GROS VENTRE\WY_1.DWG Thursday, August 10, 2023 10:04:04 AM

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.

GROUNTING 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.

UNDEGROUND 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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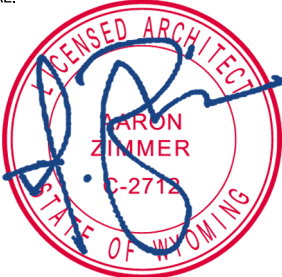
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SITE INFORMATION:

WY3 - GROS VENTRE

1150 WYOMING HWY 22
JACKSON, WY 83001
TETON COUNTY

SEAL:



AUG.10.2023

SHEET TITLE:

ELECTRICAL NOTES

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

GN-2

UPDATED 03/2022

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1 GUIDELINES



2 NOTICE



3 CAUTION



4 WARNING




5 NOC INFO

NOTE:
1. ALL REQ'D. SIGNAGE LOCATIONS ARE INDICATED ON SHEET A-2a.

STANDARD VERIZON SIGNAGE

REQ'.D SIGNAGE SUMMARY (by others):

Final Compliant Configuration							
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER	
Access Point(s)	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/>	N/A
Alpha	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/>	8'x6'x6
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/>	N/A
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/>	N/A

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location; Also in Sec. 4 (B)

☒ RF Safety Plan required

☐ Engineering Controls required



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AARON ZIMMER
architect

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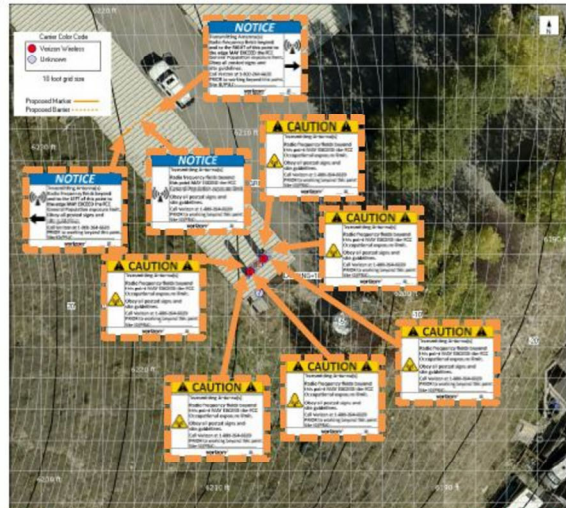
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SHEET TITLE:
EME SIGNAGE AND DETAILS
5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
EME-1

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b. Signage/Barrier Diagram (Overall Site)



Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> N/A
Alpha	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> 8'x6'x6'
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> N/A
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> N/A

Proposed Signs/Barriers Existing Signs/Barriers
NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

RF-22-0246

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f. Signage/Barrier Diagram (Gamma Sector)



Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> N/A

Proposed Signs/Barriers Existing Signs/Barriers
NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

RF-22-0246

Page 22

EME SIGNAGE/BARRIER DIAGRAM - ROOFTOP ACCESS

SCALE:
N.T.S.

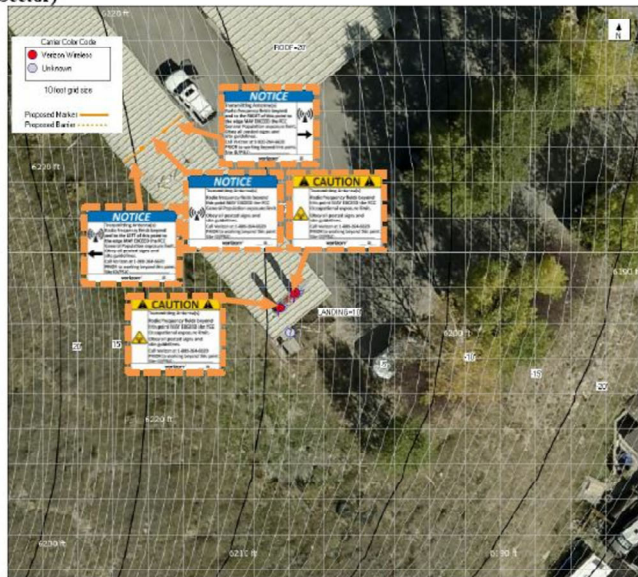
4

EME SIGNAGE/BARRIER DIAGRAM - GAMMA SECTOR

SCALE:
N.T.S.

G

d. Signage/Barrier Diagram (Alpha Sector)



Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Alpha	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> 8'x6'x6'

Proposed Signs/Barriers Existing Signs/Barriers
NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

RF-22-0246

Page 20

EME SIGNAGE/BARRIER DIAGRAM - ALPHA SECTOR

SCALE:
N.T.S.

A

e. Signage/Barrier Diagram (Beta Sector)



Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> N/A

Proposed Signs/Barriers Existing Signs/Barriers
NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

RF-22-0246

Page 21

EME SIGNAGE/BARRIER DIAGRAM - BETA SECTOR

SCALE:
N.T.S.

B

verizon

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EME SIGNAGE
AND DETAILS

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:

EME-2

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

(2) NEW 8'x6'x6' SAFETY
BARRIER/MARKER

X CALLOUT FOR REQ'D EME SIGNAGE
RE: EME-1 FOR SIGNAGE LEGEND



EME SIGNAGE

1" = 20'-0"



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AUG.10.2023

SITE INFORMATION:
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TETON COUNTY

SEAL:

SHEET TITLE:
SITE PLAN

5G L-SUB6 - CARRIER ADD

SHEET NUMBER:
EME-3

1.00 GENERAL NOTES

- 1.01 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- 1.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK WHERE THERE IS A CONFLICT BETWEEN DRAWING AND SPECIFICATIONS.
- 1.03 ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER OF RECORD SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OR CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER OF RECORD.
- 1.04 CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- 1.05 CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- 1.06 CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL.
- 1.07 SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.

2.00 STRUCTURAL STEEL NOTES

- 2.01 STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS UNLESS NOTED OTHERWISE:
- A. STRUCTURAL STEEL SHAPES, PLATES AND BARS. (EXCEPT W-SHAPES) – ASTM A36, Fy=36 KSI
- B. PIPE – ASTM A53, GRADE B, Fy=35 KSI.
- C. HSS-SHAPES – ATSM A500, GRADE B, Fy = 42 KSI (ROUND)
Fy = 46 KSI (RECTANGLE)
- D. ANCHOR RODS – ASTM F1554, GRADE 55
- E. ALL THREAD RODS – ASTM F1554, GRADE 105
- F. STRUCTURAL BOLTS 1/2"Ø AND LARGER – ASTM A325
- G. STRUCTURAL U-BOLTS 3/4"Ø AND SMALLER – ASTM A307B
- H. STRUCTURAL BOLTS SMALLER THAN 1/2"Ø
DIMENSIONS: ASME B18.2.1, MATERIAL SAE J429 GRADE 5
THREADING: ASME B1.1, UNC, CLASS 2A
FINISH: HOT-DIP GALVANIZED OR ZINC-PLATED
- I. NUTS FOR BOLTS/ALL-THREAD – ASTM A563 (THREADING TO MATCH BOLT)
- J. WASHERS FOR BOLTS/ALL THREADS – ASTM F436
- K. W & WT SHAPES – ASTM A36 – Fy=36 KSI.
ALTERNATE SPEC: ASTM (IF OTHER SPEC IS UNAVAILABLE).
- 2.02 STRUCTURAL BOLTS SHALL CONFORM TO THIS NOTE. ALL BOLT HOLES SHALL BE STANDARD SIZE BOLT HOLES PER AISC 360, UNLESS OTHERWISE NOTED. ALL HOLES SHALL BE SHOP DRILLED OR SUB-PUNCHED AND REAMED. BURNING OF HOLES IS NOT PERMITTED, WHERE SLOTTED OR OVERSIZE HOLES ARE SPECIFIED ON THE DRAWINGS, EXTRA-THICK ASTM F436 PLATE WASHERS SHALL BE USED (5/16" MINIMUM THICKNESS) WITH A DIAMETER SUITABLE TO COVER THE EXTENTS OF THE SLOT OF HOLE. BOLTS SHALL BE HEAVY-HEX WHERE AVAILABLE IN THE SIZE AND GRADE SPECIFIED.
- 2.03 ALL STEEL HARDWARE, INCLUDING ADHESIVE OR EMBEDDED ANCHOR BOLTS AND THEIR ACCESSORIES, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 (EXCEPT BOLTS SMALL THAN 1/2" SHALL CONFIRM TO FE/ZN 3 AS PER ASTM F1941 WHERE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. REPAIR DAMAGE TO GALVANIZED COATINGS USING ASTM A780 PROCEDURES WITH A ZINC RICH PAINT (SUCH AS ZRC GALVILITE) FOR GALVANIZING DAMAGED BY HANDLING, TRANSPORTING, CUTTING, WELDING, OR BOLTING. DO NOT HEAT SURFACES TO WHICH REPAIR PAINT HAS BEEN APPLIED. CALL OUT HOLES REQUIRED FOR HOT-DIP GALVANIZING ON SHOP DRAWINGS.
- 2.04 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE – STEEL". WELD ELECTRODES SHALL BE E80XX. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE OF 3/16" OR OF A SIZE EQUAL TO THE THICKNESS OF THE THINNER WELD LEG SIZE SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE EFFECTIVE THROAT OF A 3/16" FILLET WELD IN A 90° JOINT. ALL WELD SIZES SHOWN IN INCHES.
- 2.05 PRIOR TO WELDING, THE CONTRACTOR SHALL SUBMIT CERTIFICATION FOR EACH WELDER STATING THE TYPE OF WELDING AND POSITIONS QUALIFIED FOR, THE CODE AND PROCEDURE QUALIFIED UNDER, STATE QUALIFIED, AND THE FIRM AND INDIVIDUAL CERTIFYING THE QUALIFICATION TESTS. THIS INFORMATION SHALL BE SUBMIT TO THE MODIFICATION INSPECTOR (SEE SHEET N-3) AS WELL AS ANY THIRD-PARTY CERTIFIED WELD INSPECTOR (CWI).
- 2.06 MEMBERS SHALL BE SHOP-FABRICATED AND WELDED TO THE EXTENT PRACTICABLE IN ORDER TO REDUCE FIELD INSTALLATION COSTS.

3.00 MODIFICATION NOTES

- 3.01 THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF IBC 2018, ASCE 7, AWS, ACI, AND AISC. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND CONTRACT SPECIFICATIONS.
- 3.02 ALL MATERIALS UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS.
- 3.03 ALL PRODUCT OR MATERIAL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER SUITABLE TO DETERMINE IF THE SUBSTITUTE IS ACCEPTABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING; MAINTENANCE, REPAIR, AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATION TO THE ENGINEER AS REQUESTED.
- 3.04 PROVIDE STRUCTURAL STEEL SHOP DRAWINGS(S) TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- 3.05 UNLESS NOTED OTHERWISE, ALL NEW MEMBERS AND REINFORCING SHALL MAINTAIN THE EXISTING MEMBER WORK AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- 3.06 ANY CONTRACTOR-CAUSED DAMAGE TO PROPERTY OF THE LAND OWNER, PROPERTY OF THE CUSTOMER, SITE FENCING OR GATES, ANY AND ALL UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS SHALL BE REPAIRED OR REPLACED AT THE SOLE COST OF THE CONTRACTOR AND SHALL BE ADDRESSED BY THE CONTRACTOR WITH THE COMPANIES THAT OWN THE DAMAGED ITEMS.

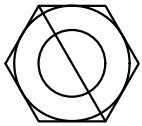
4.00 CONTRACTOR NOTES

- 4.01 PRIOR TO BEGINNING CONSTRUCTION, ALL CONTRACTORS AND SUBCONTRACTORS MUST ACKNOWLEDGE IN WRITING TO STRUCTURE OWNER THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW STRUCTURE OWNER STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND STRUCTURE SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATION DESCRIBED RECEIPT OF ACKNOWLEDGEMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OF CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THE DOCUMENTATION FOR STRUCTURE OWNER ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM ANY SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO THE STRUCTURE OWNER.
- 4.02 IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, THE ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF THE DEVIATION.
- 4.03 THE CONTRACTOR SHALL SOLICIT AND HIRE THE SERVICES OF A QUALIFIED MODIFICATIONS INSPECTOR PRIOR TO BEGINNING CONSTRUCTION, THE MODIFICATION INSPECTOR MAY BE AN EMPLOYEE OF THE CONTRACTORS FIRM; HOWEVER, THE INSPECTOR'S ONLY DUTIES SHALL BE INSPECTION, TESTING, AND REPORT CREATION AS REQUIRED ON THE "MODIFICATION INSPECTION NOTES" SHEET. IT IS ALSO ACCEPTABLE FOR THE CONTRACTOR TO SUBCONTRACT THE MODIFICATION INSPECTOR DUTIES TO A THIRD PARTY FIRM MEETING THE ABOVE REQUIREMENTS.
- 4.04 THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND TOWER OWNER OF THE PLANNED CONSTRUCTION & INSPECTION SCHEDULE, AS WELL AS ANY CHANGES TO THE SCHEDULE, WITHIN TWO BUSINESS DAYS OF COMPLETION OF THE SCHEDULE REVISION BOTH PRIOR TO BEGINNING CONSTRUCTION AND DURING CONSTRUCTION AS THE SCHEDULE CHANGES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHEN PHASES OF CONSTRUCTION HAVE BEEN MOVED UP AND SHALL GIVE THE ENGINEER ADEQUATE NOTICE SO THE ENGINEER OF RECORD MAY, AT THEIR DISCRETION, INSPECT PORTIONS OF THE WORK DEEMED CRITICAL TO THE INTEGRITY OF THE STRUCTURE. FAILURE TO PROVIDE THIS NOTICE MAY RESULT IN REJECTION OF THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL ALSO NOTIFY THE ENGINEER OF RECORD AND THE STRUCTURE OWNER WHEN THE WORK HAS BEEN COMPLETED WITHIN 2 BUSINESS DAYS OF THE COMPLETION OF THE WORK AND ASSOCIATED MODIFICATION INSPECTIONS & TESTING.
- 4.05 IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED IN THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER/BUILDING CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE STRUCTURE OWNER AND ENGINEER INCLUDING BUT NOT LIMITED TO QUALIFIED WELDER CERTIFICATES, CERTIFIED WELDING INSPECTOR CREDENTIALS, ET CETERA.
- 4.06 THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- 4.07 CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE STRUCTURE OWNER'S PROPERTY OF LEASE AREA AND APPROVED EASEMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4.08 DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

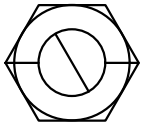
5.00 BOLT TIGHTENING PROCEDURE

5.01 TIGHTEN BOLTS BU AISC- "TURN OF THE NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO & INCLUDING 4 Ø		
1/2"	BOLTS UP TO & INCLUDING 2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO & INCLUDING 2 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO & INCLUDING 3" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO & INCLUDING 3 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO & INCLUDING 4" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/8"	BOLTS UP TO & INCLUDING 4 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/4"	BOLTS UP TO & INCLUDING 5" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/2"	BOLTS UP TO & INCLUDING 6" LENGTH	+1/3 TURN BEYOND SNUG TIGHT



BEFORE 1/3 TURN



AFTER 1/3 TURN

BOLT LENGTH OVER 4 Ø BUT NOT EXCEEDING 8 Ø		
3/4"	BOLTS 4.25" TO 6.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75" TO 7.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25" TO 8.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/8"	BOLTS 4.75" TO 9.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/4"	BOLTS 5.25" TO 10.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/2"	BOLTS 6.25" TO 12.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- 5.02 SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(d)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

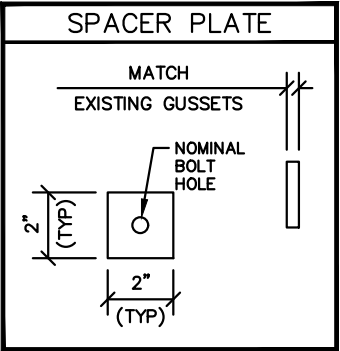
"FASTENERS SHALL BE INSTALLED IN PROPERY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(d)(1) THROUGH 8(d)(4).

8(d)(1) TURN-OF-THE-NUT TIGHTENING
BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF A JOINT ARE IN FIRM CONTACT. THIS MAY BE OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOW THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY

6.00 FIBER REINFORCED PLASTICS NOTES

6.01 FIBER REINFORCED PLASTICS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AT A MINIMUM UNLESS NOTED OTHERWISE:

- A. STRUCTURAL FRP SHAPES AND PLATES – EXTREN 500 SERIES
- B. THROUGH BOLTS – STRONGWELL FIBREBOLTS
- ALL BOLTS TO CONTAIN SINGLE FRP NUT ON EITHER SIDE OF BOLT
 - ALL BOLTS TO BE TIGHTENED TO MANUFACTURER'S RECOMMENDATIONS



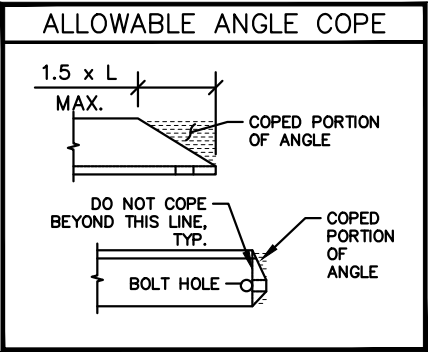
WORKABLE GAGES

LEG	4	3 1/2	3	1/2	2	1 3/4
GAGE	2 1/2	2	1 3/4	1 3/8	1 1/8	1

WORKABLE CAGES GIVEN IN INCHES
MATCH EXISTING WHEN APPLICABLE

NOMINAL HOLE DIM'S

BOLT Ø	STANDARD HOLE Ø	SHORT SLOT
1/2"Ø	9/16"Ø	9/16" x 1/16"
5/8"Ø	1/2"Ø	1/2" x 1/8"
3/4"Ø	1 3/16"Ø	1 3/16" x 1"
7/8"Ø	1 5/16"Ø	1 5/16" x 1/8"
1"Ø	1 1/8"Ø	1 1/8" x 3/16"



BOLT EDGE & SPACING

BOLT Ø	MIN. EDGE	SPACING
1/2"Ø	7/8"Ø	1 1/2"
5/8"Ø	1 1/8"Ø	1 7/8"
3/4"Ø	1 1/4"Ø	2 1/4"
7/8"Ø	1 1/2"Ø	2 3/8"
1"Ø	1 3/4"Ø	3"

MIN. EDGE
SPACING

verizon

8350 E. CRESCENT PARKWAY, SUITE
200 GREENWOOD VILLAGE, CO 80111

CITY APPROVAL:

PLANS PREPARED BY:

Kimley»Horn

4582 S ULSTER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV: = DATE: DESCRIPTION: BY:

0	04/21/23	FOR CONSTRUCTION
		XMJ

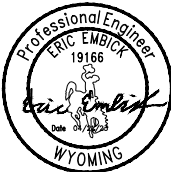
DRAWN BY: CHECKED BY:

XMJ EJE

KHA PROJECT NUMBER:

196015068

ENGINEER SEAL:



PROJECT INFORMATION:

NODE NAME: GROS
VENTRE

1148 W. HWY 22
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE:

GENERAL
STRUCTURAL NOTES

SHEET NUMBER:

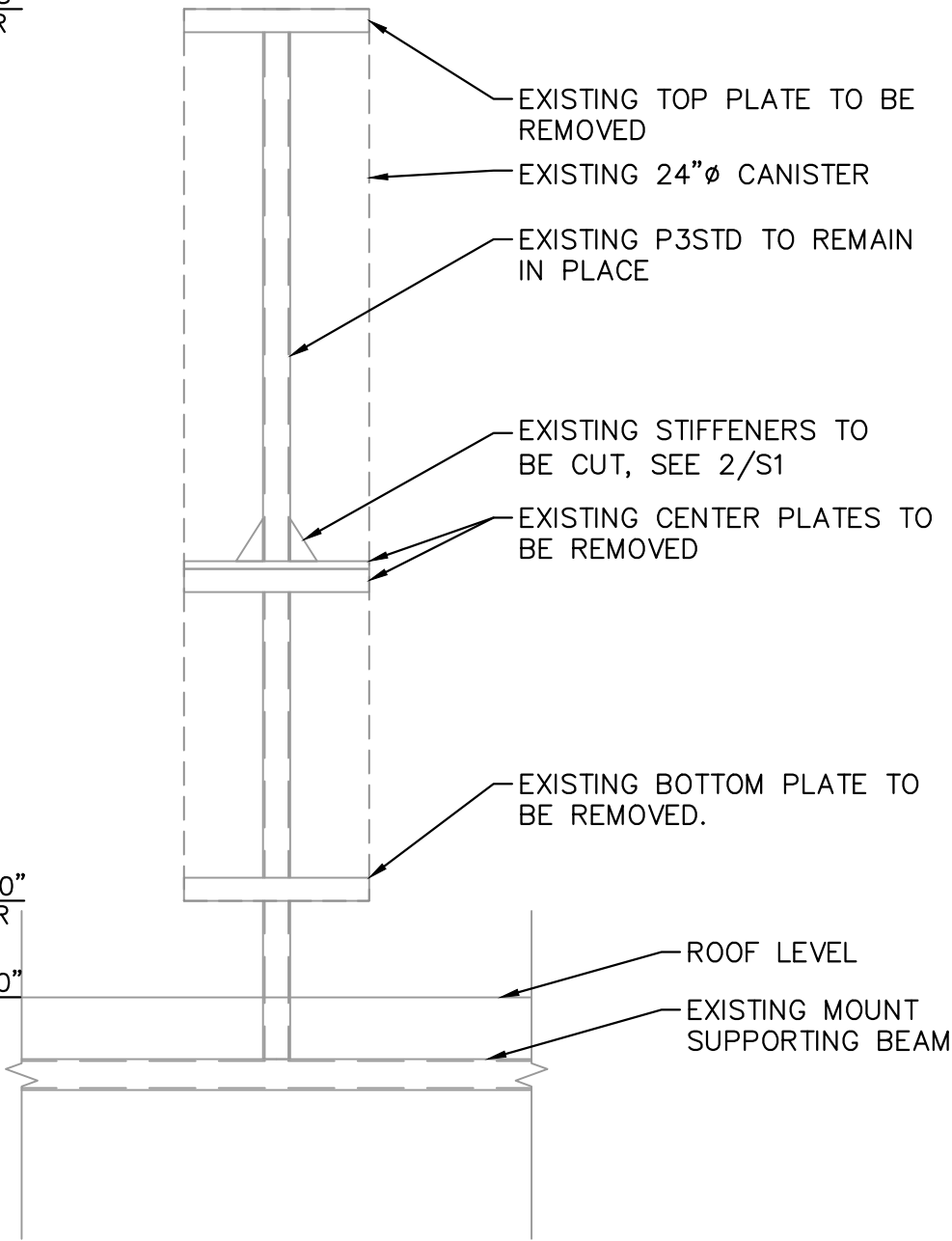
S0

NOTE: ALL CUT PLATES SHALL BE GRINDED SMOOTH.
CUT EXISTING STIFFENERS AND GRIND SMOOTH TO
ACCOMMODATE PROPOSED ANTENNAS.

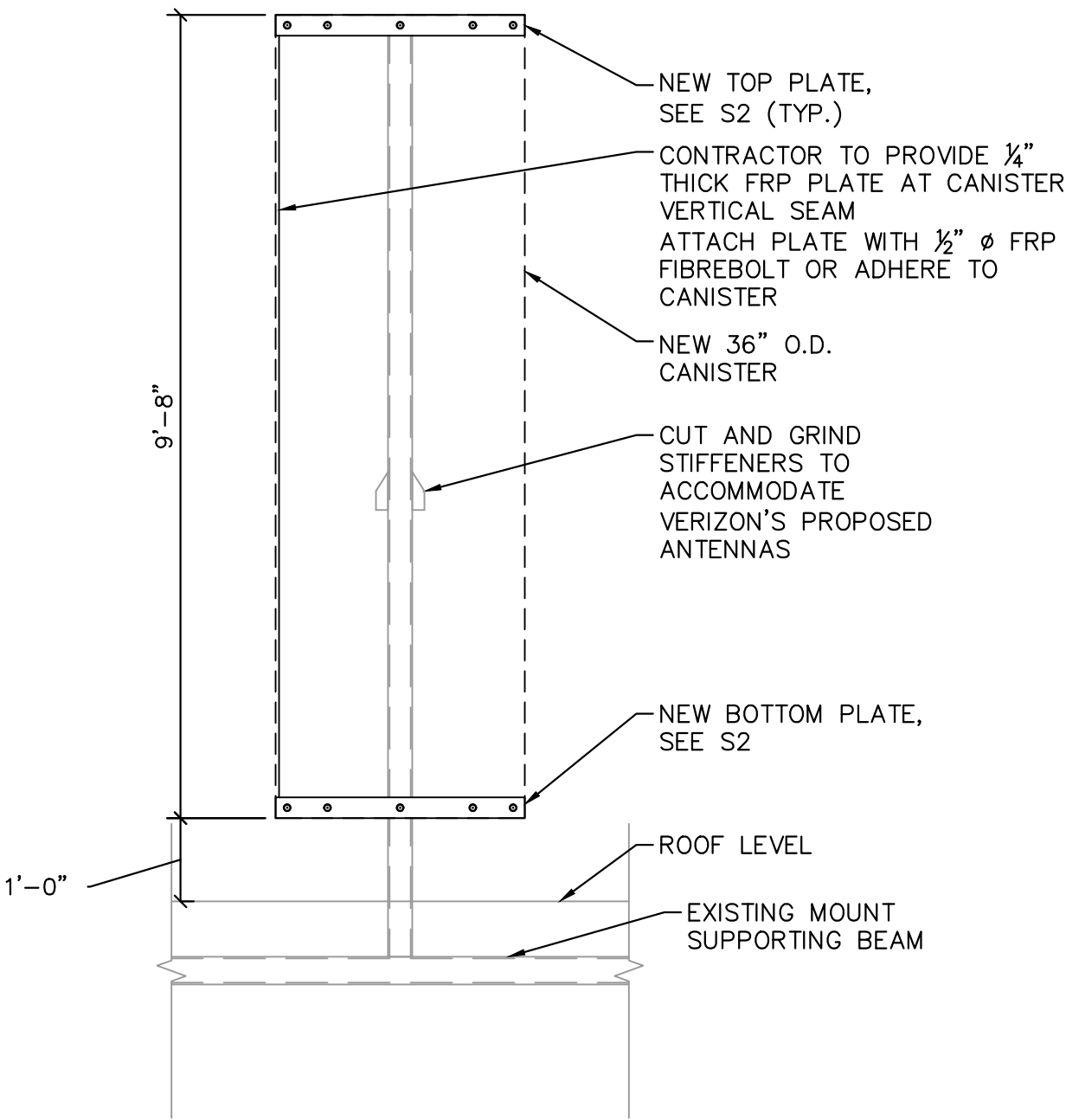
ELEV. 31'-8"
T/CANISTER

ELEV. 22'-0"
B/CANISTER

ELEV. 21'-0"
T/ROOF



1 EXISTING CANISTER ELEVATION
S1 SCALE: NOT TO SCALE



2 PROPOSED CANISTER ELEVATION
S1 SCALE: NOT TO SCALE

verizon

8350 E. CRESCENT PARKWAY, SUITE
200 GREENWOOD VILLAGE, CO 80111

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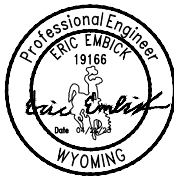
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XMJ EJE

KHA PROJECT NUMBER:

196015068

ENGINEER SEAL:



PROJECT INFORMATION:

NODE NAME: GROS
VENTRE

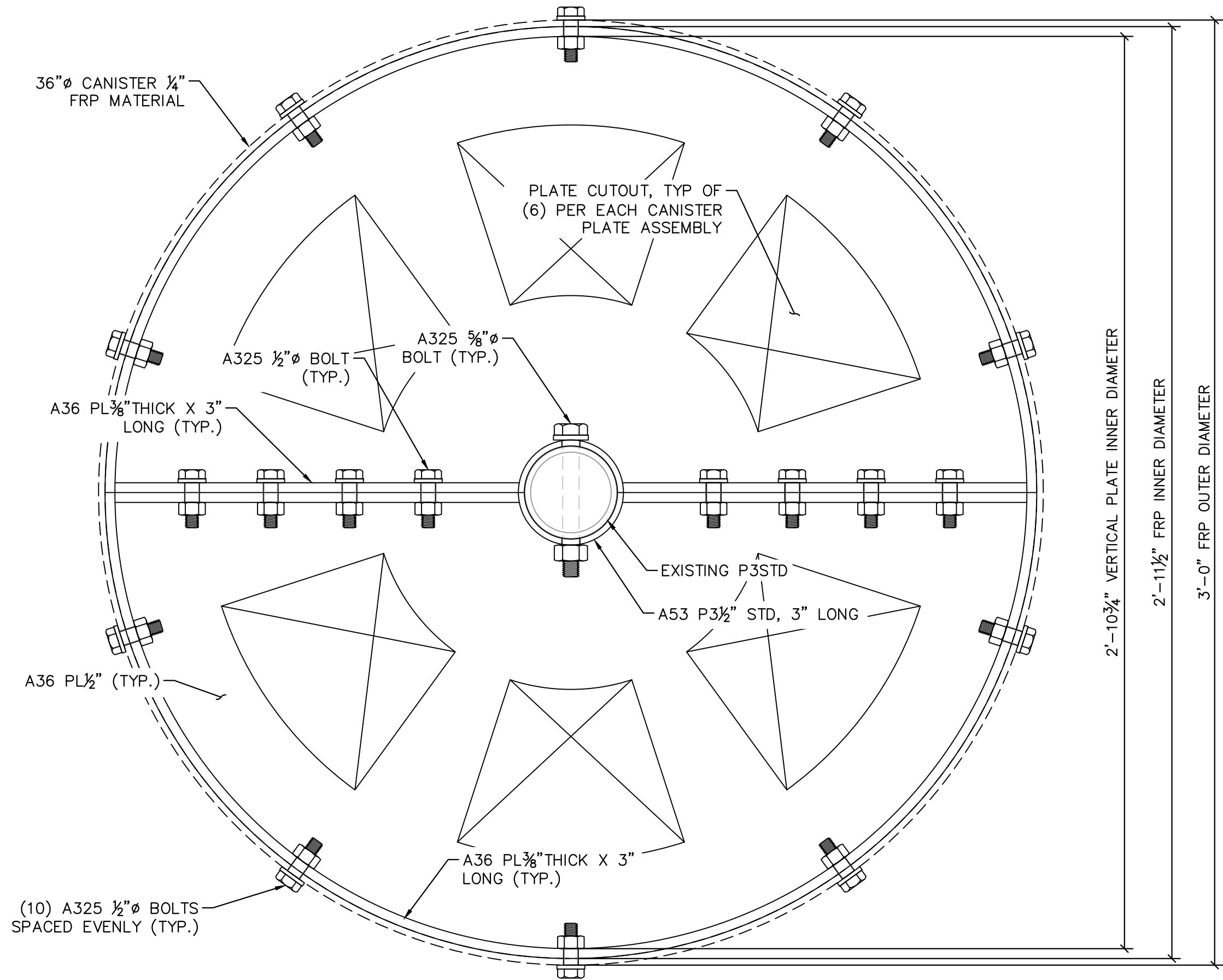
1148 W. HWY 22
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE:

EXISTING AND PROPOSED
CANISTER ELEVATIONS

SHEET NUMBER:

S1



1
S2

CANISTER PLATE ASSEMBLY
SCALE: NOT TO SCALE

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8350 E. CRESCENT PARKWAY, SUITE
200 GREENWOOD VILLAGE, CO 80111

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0	04/21/23	FOR CONSTRUCTION	XMJ

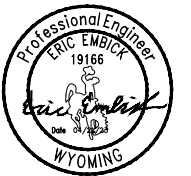
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ENGINEER SEAL:



PROJECT INFORMATION:

NODE NAME: GROS
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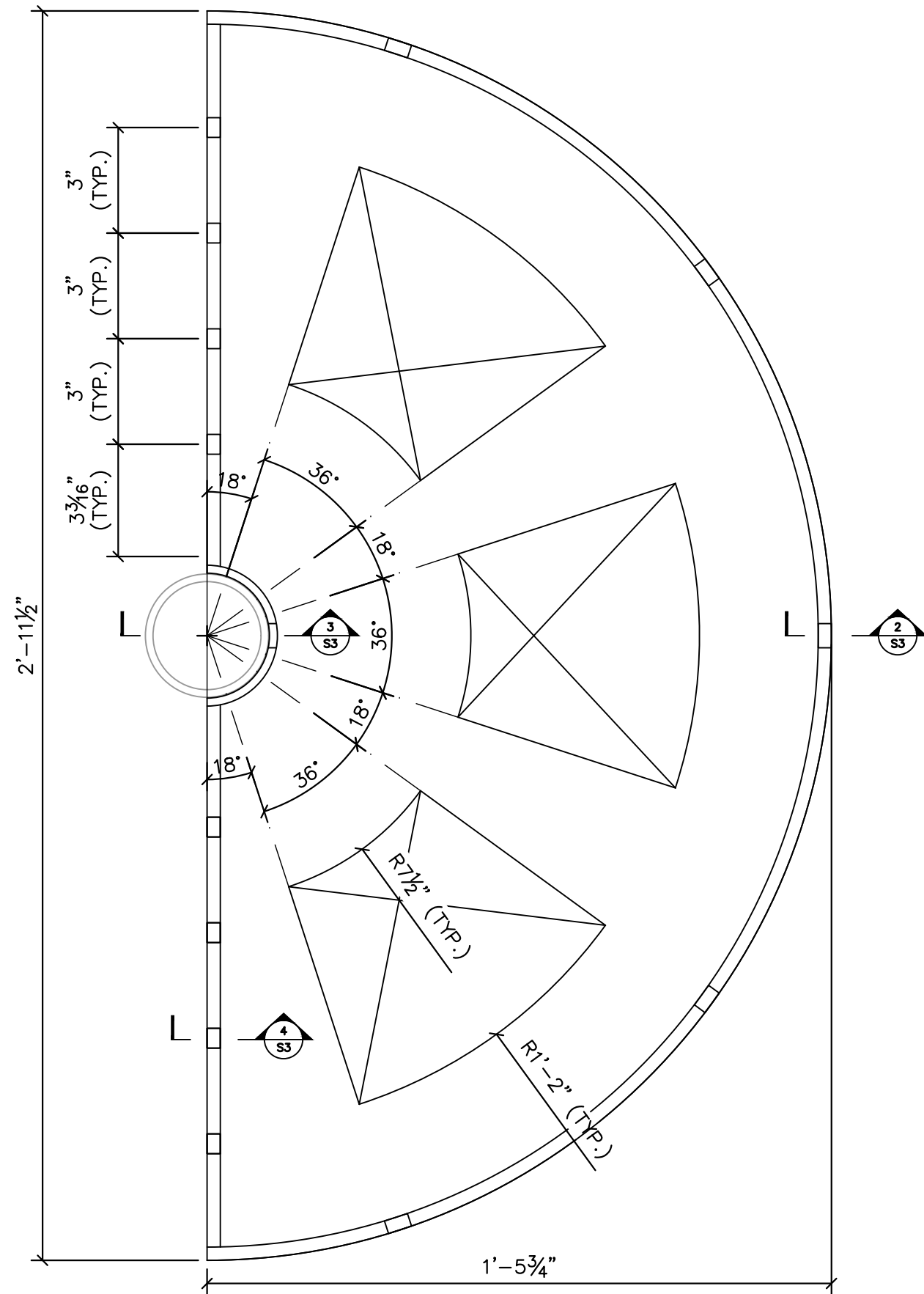
1148 W. HWY 22
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE:

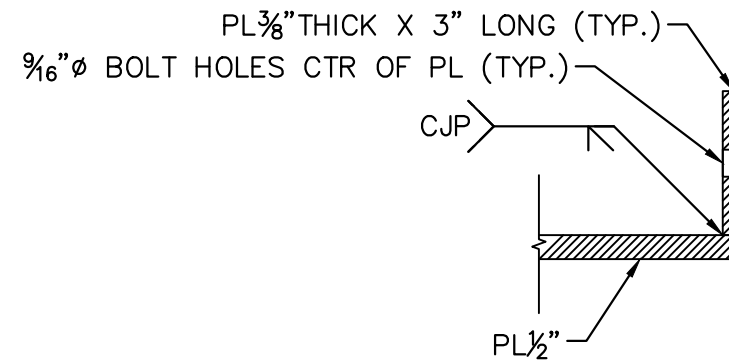
**CANISTER PLATE
ASSEMBLY DETAIL**

SHEET NUMBER:

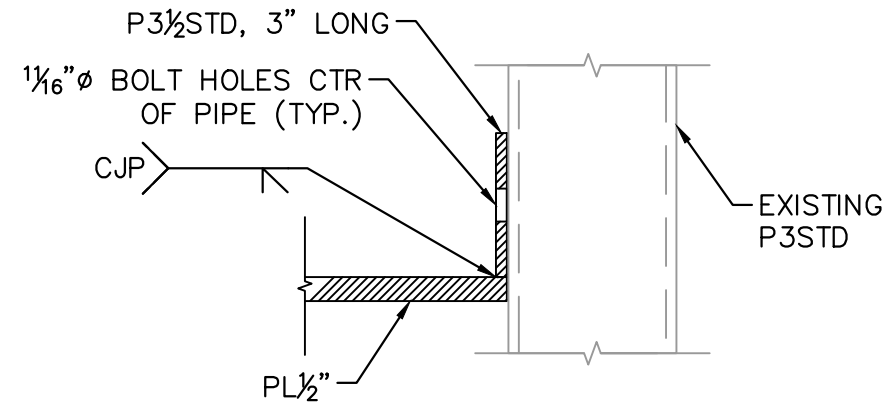
S2



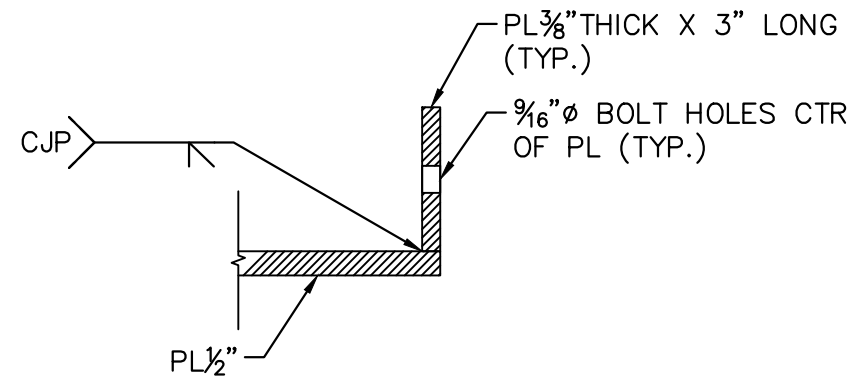
1
S3
CANISTER PLATE DETAIL
SCALE: NOT TO SCALE



2
S3
OUTER PLATE SECTION CUT
SCALE: NOT TO SCALE



3
S3
PIPE SECTION CUT
SCALE: NOT TO SCALE



4
S3
MATING PLATE SECTION CUT
SCALE: NOT TO SCALE

verizon

8350 E. CRESCENT PARKWAY, SUITE
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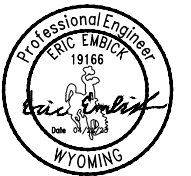
DRAWN BY: CHECKED BY:

XMJ EJE

KHA PROJECT NUMBER:

196015068

ENGINEER SEAL:



PROJECT INFORMATION:

NODE NAME: GROS
VENTRE

1148 W. HWY 22
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE:

**CANISTER PLATE DETAIL
AND SECTION CUTS**

SHEET NUMBER:

S3



5/17/2024

To: Mary Tippetts

Transmitted via email to Planning@jacksonwy.gov

RE: Verizon Wireless Macro Site Located at: 1150 Wyoming Hwy 22 Jackson, WY 83001

To Whom It May Concern,

We write to inform you that Verizon Wireless has performed a radio frequency (RF) compliance pre-construction evaluation for the above-noted proposed site and based on the result of the evaluation, the site will be compliant with FCC Guidelines.

The FCC has established safety rules relating to potential RF exposure from cell sites. The rules are codified at 47 C.F.R § 1.1310. The FCC provides guidance on how to ensure compliance with its rules in the FCC Office of Engineering and Technology Bulletin 65 (available at https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf). The FCC developed the RF standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The FCC provides information about the safety of radio frequency (RF) emissions from cell towers on its website at: <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>.

Please refer to the FCC Office of Engineering and Technology Bulletin 65 and the attached Verizon Wireless RF Brochure for information on RF exposure guidelines, RF safety, and landlord responsibilities. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@VerizonWireless.com.

Please contact your local Verizon Wireless resource below if you have additional site-specific questions.

Contact Email	Emergency Contact Phone
vzw.mountain.rfsp@verizon.com	800-264-6620

Sincerely,

Jennifer Sedillo

Manager-RF System Design, Verizon