

PROJECT INDEX

APPLICANT:
UNION TELEPHONE COMPANY
850 N HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

SITE ACQUISITION:
CONTACT: TYLER THOLL
PHONE: (307) 782-4804
EMAIL: ttholl@unionwireless.com

ENGINEER/DESIGNER:
CONTACT: MATTHEW FISHER
PHONE: (307) 782-4099
EMAIL: mfisher@unionwireless.com

CONSTRUCTION MANAGER:
CONTACT: JUSTIN HAWS
PHONE: (307) 747-7054
EMAIL: jhawks@unionwireless.com

SURVEYOR: _____
PLANS NOT VERIFIED BY A LICENSED SURVEYOR.

PROPERTY OWNER:
PEABODY COAL
701 MARKET St. SUITE 731
St. LOUIS, MISSOURI 63101

CONTACT: MIKE BERDINE
PHONE: (970) 870-2782

POWER COMPANY:
YAMPA VALLEY ELECTRIC ASSOCIATION
3715 EAST US HWY 40
P.O. BOX 217
CRAIG, CO 81626

CONTACT:
PHONE: (970) 824-6593

TELEPHONE COMPANY:
UNION TELEPHONE COMPANY
PO BOX 160
850 NORTH HIGHWAY 414
MOUNTAIN VIEW, WY 82939

PHONE: (307) 782-6131

DRAWING INDEX

[illegible]

OAK CREEK COAL

COMMUNICATION SITE

29920 COUNTY ROAD 27
OAK CREEK, ROUTT COUNTY, COLORADO 80467

80' SELF-SUPPORTING LATTICE TOWER

FN OVERLAY - TOWER WORK



850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV	DATE
H	03/25/2020

DESIGNER: MATTHEW FISHER

REVIEWER: TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID: COL04473A

FA CODE: 15084278

PROJECT NAME:

OAK CREEK COAL

PROJECT ADDRESS:

29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:

FIRSTNET TITLE SHEET

SHEET NUMBER: T1

SITE DESCRIPTION		VICINITY MAP	DRIVING DIRECTIONS
1	LEGAL DESCRIPTION: SE $\frac{1}{4}$ OF SE $\frac{1}{4}$ SECTION 30 T5N R86W 6THPM		HEADING EAST OUT OF THE TOWN OF HAYDEN, COLORADO TOWARD STEAMBOAT SPRINGS, CLOCK 4.5 MILES TO THE JUNCTION WITH COUNTY ROAD NO. 27.
2	GEOGRAPHIC COORDINATES (NAD83): 40°21'14.8"N 107°4'21.3"W		TURN RIGHT ON COUNTY ROAD NO.27 AND CLOCK 12.1 MILES ALONG THE COUNTY ROAD NO. 27.
3	ELEVATION: 7490' AMSL		TURN LEFT ON A DIRT ROAD HEADING NORTHEASTERLY AND CLOCK 0.3 MILES TO A TWO-TRACK ROAD ON THE RIGHT.
4	ASR: N/A		TURN RIGHT AND FOLLOW THE TWO TRACK ABOUT A MILE TO THE TOP OF TWENTYMILE RIDGE.
5	PROJECT NOTES: SEE SCOPE OF WORK DOCUMENT FOR DETAILED SCOPE OF WORK.		THE COMMUNICATION SITE IS LOCATED ABOUT 150 FEET NORTHEAST OF THE EXISTING POLE ANTENNA MOUNT AND BUILDING BELONGING TO PEABODY COAL COMPANY. CONTACT PERSON FOR PEABODY COAL IS MIKE BERDINE (MINE MANAGER) AT 970-870-2782 OR RICK STILLION, (ELECTRICAL SUPERVISOR) AT 970-870-2788.

DRAWINGS ISSUED BY:

MATTHEW FISHER

TITLE:

PROJECT ENGINEER

DATE:

27 MARCH 2020

UTC

P

N

(•)

C

(•)

LEGEND

LEASE AREA AND 6' CHAIN LINK FENCE WITH BARBED WIRE

HIDDEN LINE

CONCRETE FOUNDATION

COMPANY IDENTIFIER

PROPANE LABEL

NO SMOKING SIGN

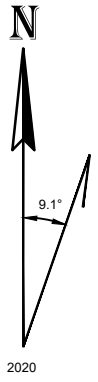
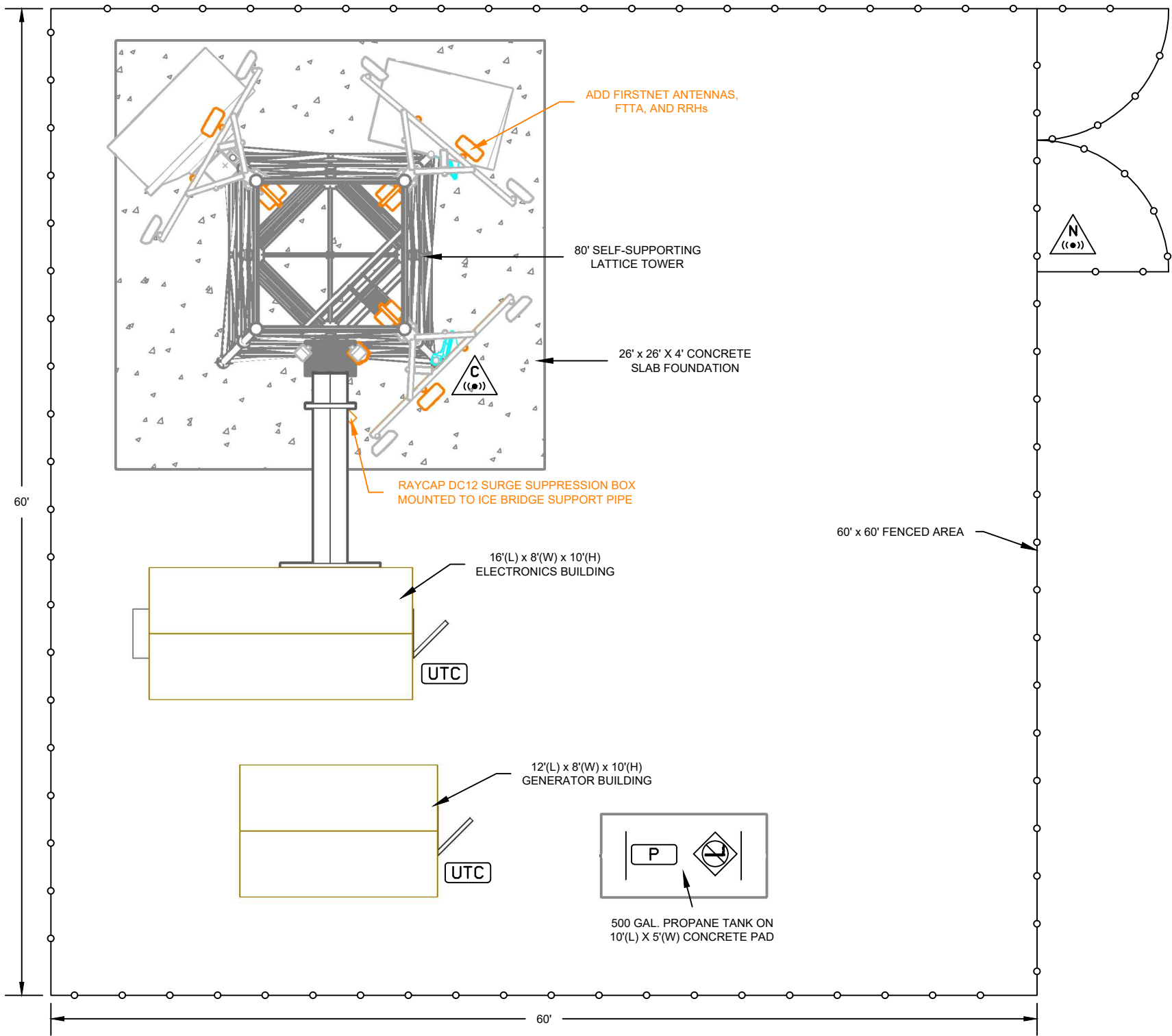
RF NOTICE SIGN

RF CAUTION SIGN

NEW EQUIPMENT

RETIRE EQUIPMENT

COLO EQUIPMENT



1

C1

COMMUNICATION SITE PLAN

SCALE: 1/8"=1'

Union

WIRELESS

850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV

DATE

H

03/25/2020

DESIGNER:
MATTHEW FISHER

REVIEWER:
TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID:
COL04473A

FA CODE:
15084278

PROJECT NAME:
OAK CREEK COAL

PROJECT ADDRESS:
29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:
FIRSTNET PLAN VIEW

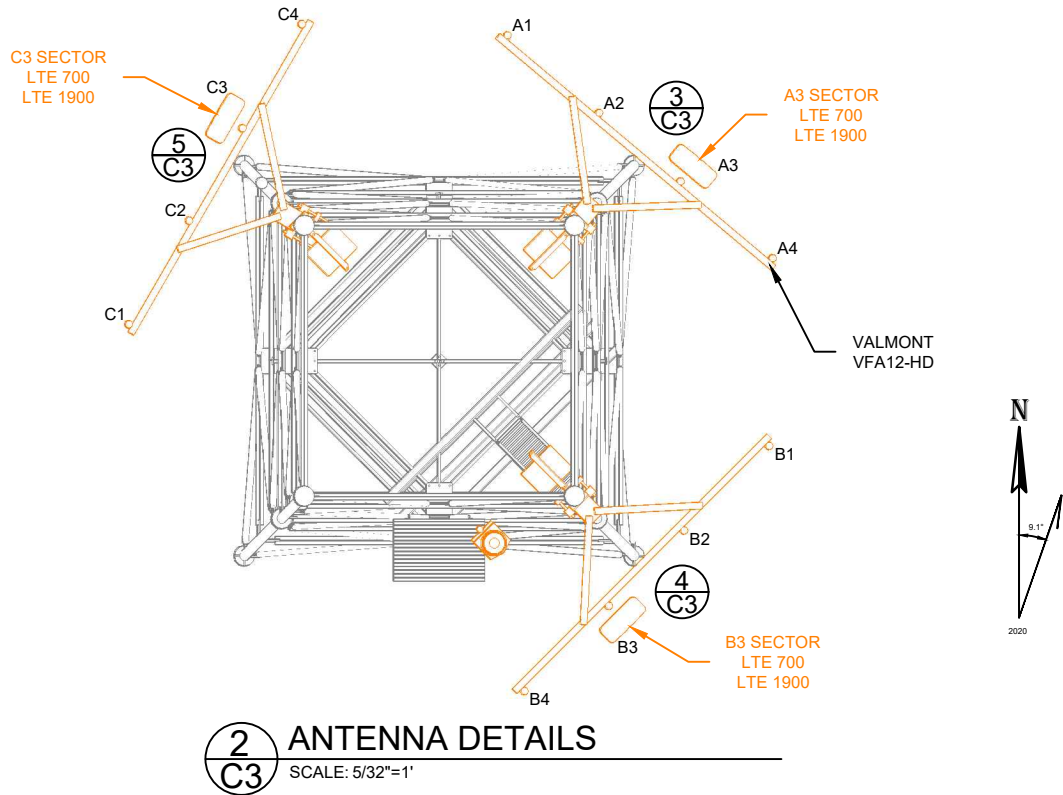
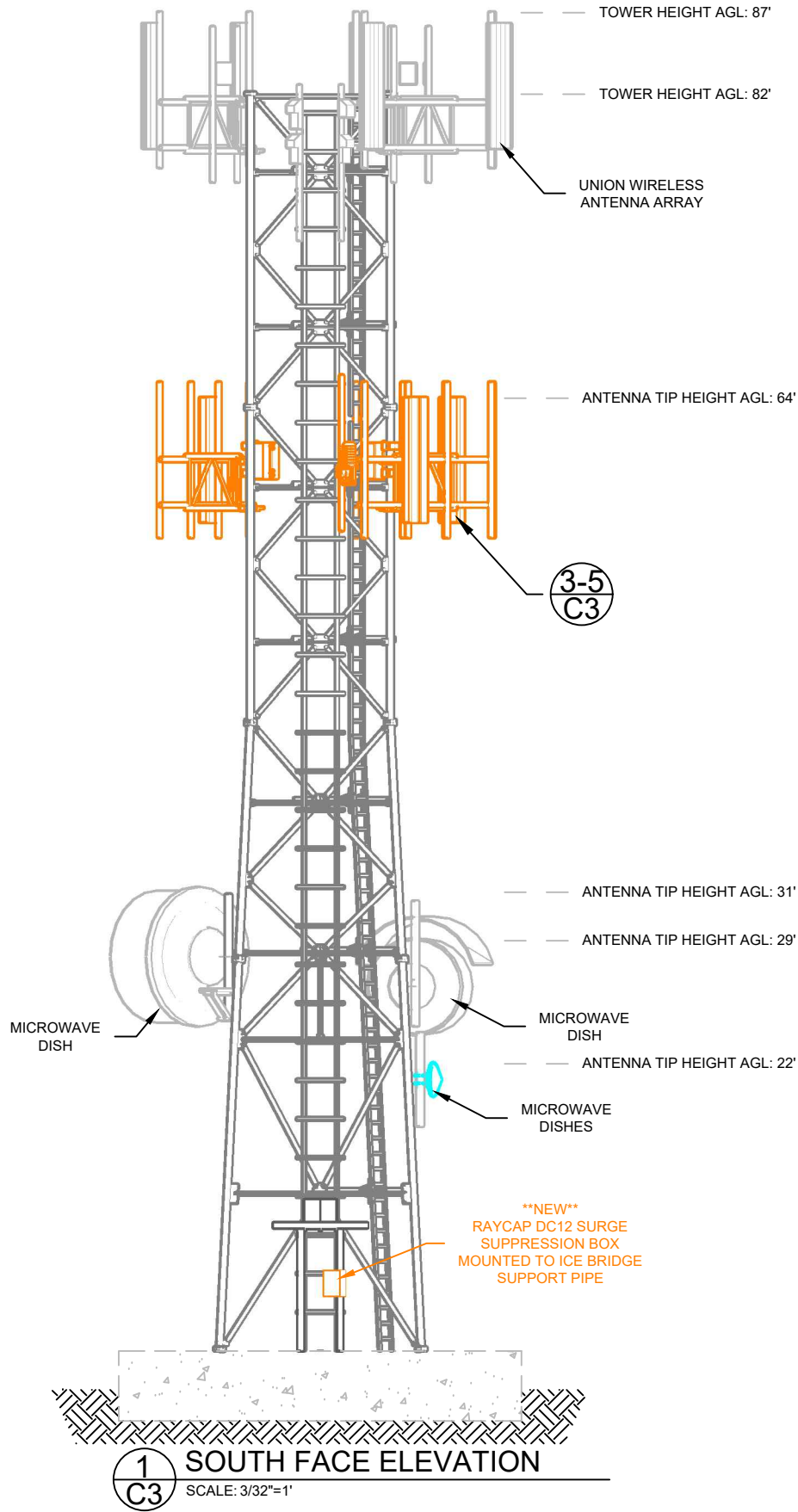
SHEET NUMBER:
C1

LEGEND

NEW EQUIPMENT

RETIRE EQUIPMENT

COLO EQUIPMENT



ANT FRAME DETAILS	
A3 SECTOR	ANTENNA MANUFACTURER & MODEL: 1X COMMSCOPE NNH4-65C-R6-V3 OR SIMILAR
	AZIMUTH: 31° MAG (40° TRUE)
	TIP HEIGHT ABOVE GROUND LEVEL: 64'
	TECHNOLOGY FOR 698-896 MHz PORTS: LTE 7A_1_FA/7A_2_A (4x4)
	DOWNTILT FOR 698-896 MHz: 0°MECH, RET (SEE RFDS)
	WAVEGUIDE SPECS FOR 698-896 MHz: (4) LDF4-50A
	TECHNOLOGY FOR 1695-2360 MHz PORTS: LTE 9A_1_A (4x4)
	DOWNTILT FOR 1695-2360 MHz: 0°MECH, RET (SEE RFDS)
B3 SECTOR	ANTENNA MANUFACTURER & MODEL: 1X COMMSCOPE NNH4-65C-R6-V3 OR SIMILAR
	AZIMUTH: 126° MAG (135° TRUE)
	TIP HEIGHT ABOVE GROUND LEVEL: 64'
	TECHNOLOGY FOR 698-896 MHz PORTS: LTE 7B_1_FA/7B_2_A (4x4)
	DOWNTILT FOR 698-896 MHz: 0°MECH, RET (SEE RFDS)
	WAVEGUIDE SPECS FOR 698-896 MHz: (4) LDF4-50A
	TECHNOLOGY FOR 1695-2360 MHz PORTS: LTE 9B_1_A (4x4)
	DOWNTILT FOR 1695-2360 MHz: 0°MECH, RET (SEE RFDS)
C3 SECTOR	ANTENNA MANUFACTURER & MODEL: 1X COMMSCOPE NNH4-65C-R6-V3 OR SIMILAR
	AZIMUTH: 291° MAG (300° TRUE)
	TIP HEIGHT ABOVE GROUND LEVEL: 64'
	TECHNOLOGY FOR 698-896 MHz PORTS: LTE 7C_1_FA/7C_2_A (4x4)
	DOWNTILT FOR 698-896 MHz: 0°MECH, RET (SEE RFDS)
	WAVEGUIDE SPECS FOR 698-896 MHz: (4) LDF4-50A
	TECHNOLOGY FOR 1695-2360 MHz PORTS: LTE9C_1_A (4x4)
	DOWNTILT FOR 1695-2360 MHz: 0°MECH, RET (SEE RFDS)

Union

WIRELESS

850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV

DATE

H

03/25/2020

DESIGNER:

MATTHEW FISHER

REVIEWER:

TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID:

COL04473A

FA CODE:

15084278

PROJECT NAME:

OAK CREEK COAL

PROJECT ADDRESS:

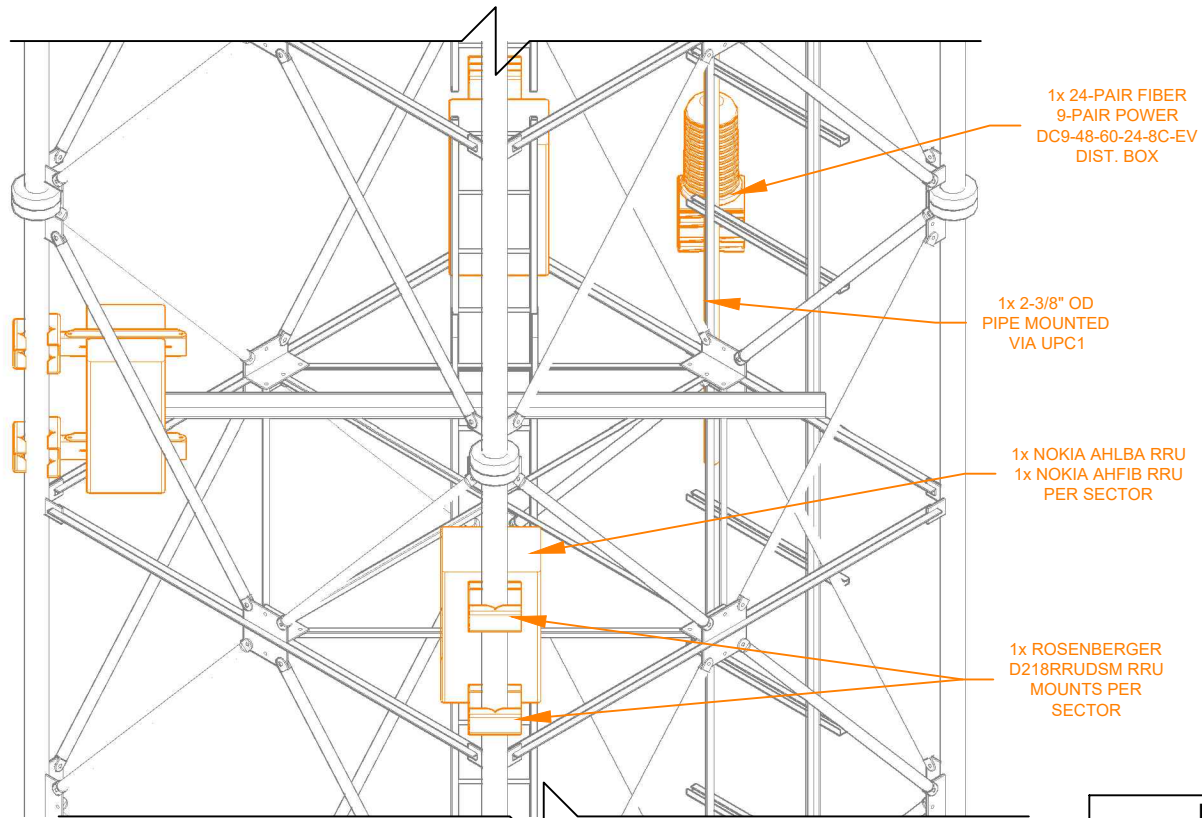
29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:

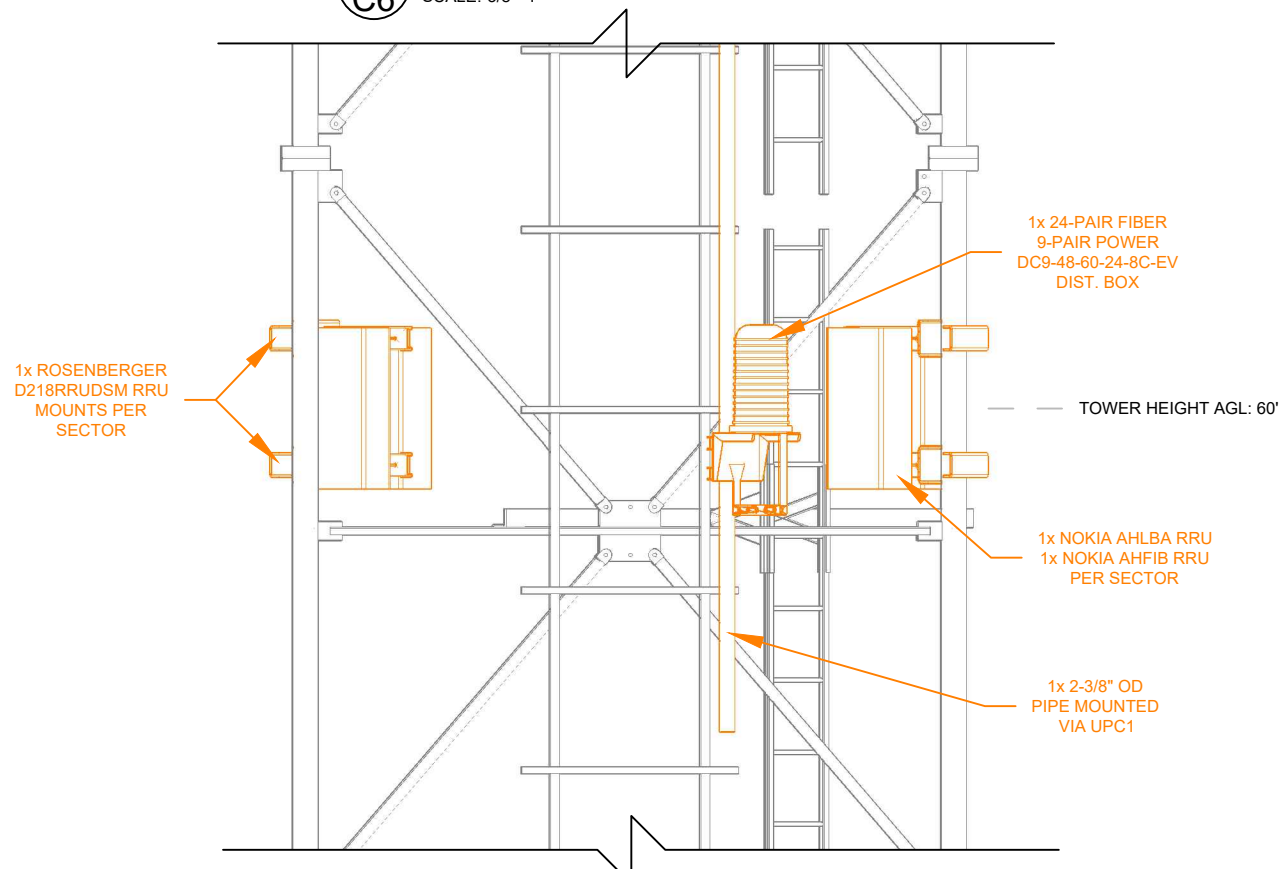
FIRSTNET ANTENNA DETAILS

SHEET NUMBER:

C3

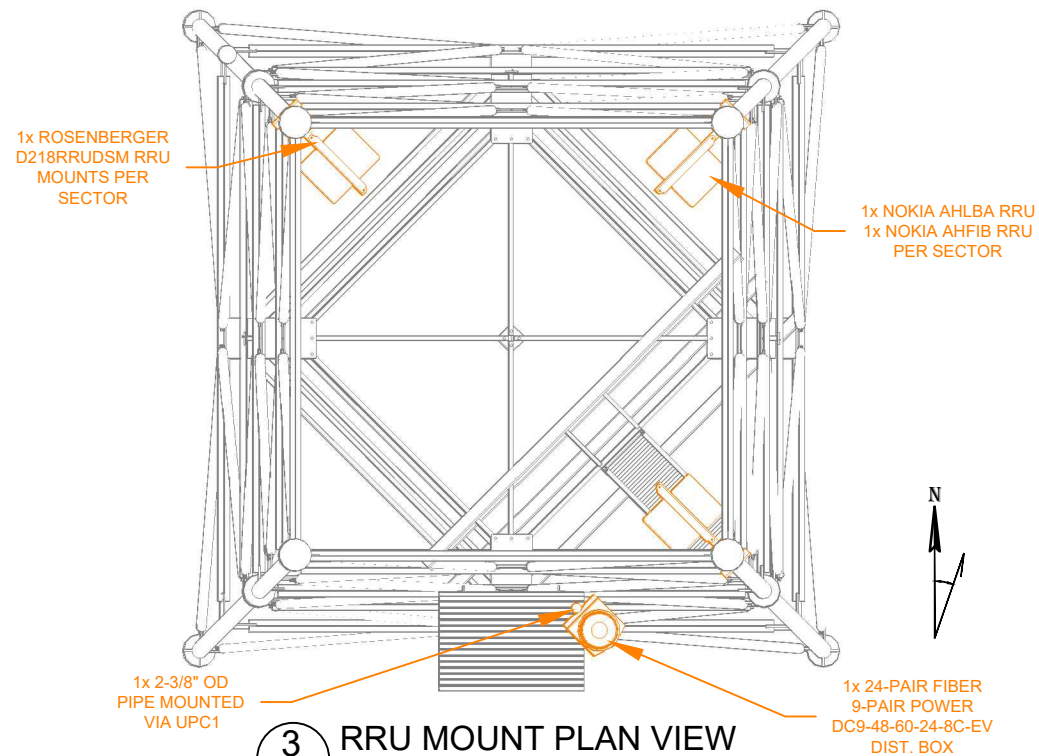


1 RRU MOUNT PERSPECTIVE
SCALE: 3/8"=1'

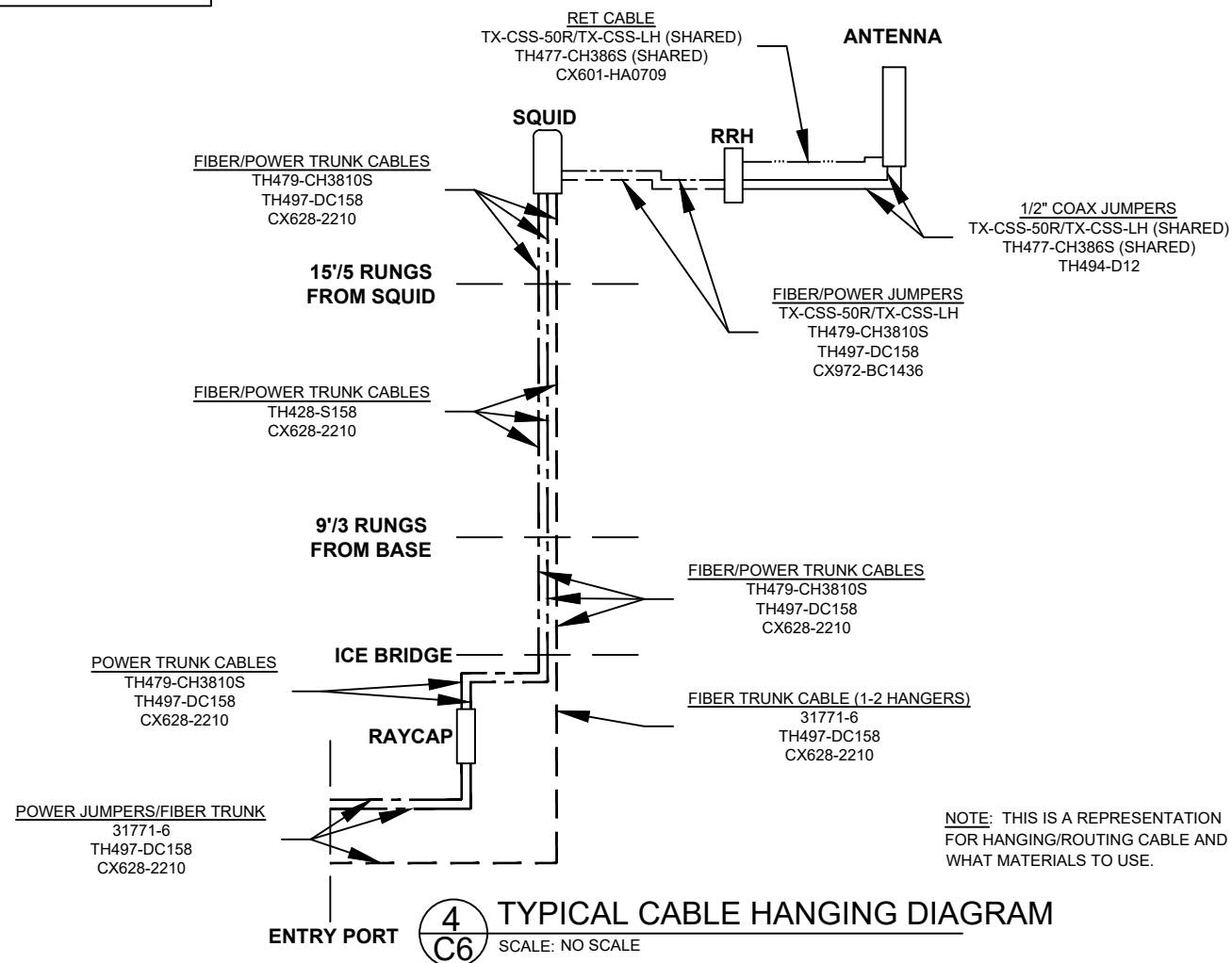


2 RRU ELEVATION VIEW
SCALE: 3/8"=1'

LEGEND
NEW/CHANGED EQUIPMENT



3 RRU MOUNT PLAN VIEW
SCALE: 1/4"=1'



4 TYPICAL CABLE HANGING DIAGRAM
SCALE: NO SCALE



850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS
DOCUMENT IS PROPRIETARY. ANY USE OR
DISCLOSURE OTHER THAN THOSE AUTHORIZED
BY UNION TELEPHONE COMPANY IS STRICTLY
PROHIBITED.

CURRENT REV	DATE
H	03/25/2020

DESIGNER:
MATTHEW FISHER

REVIEWER:
TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID:
COL04473A

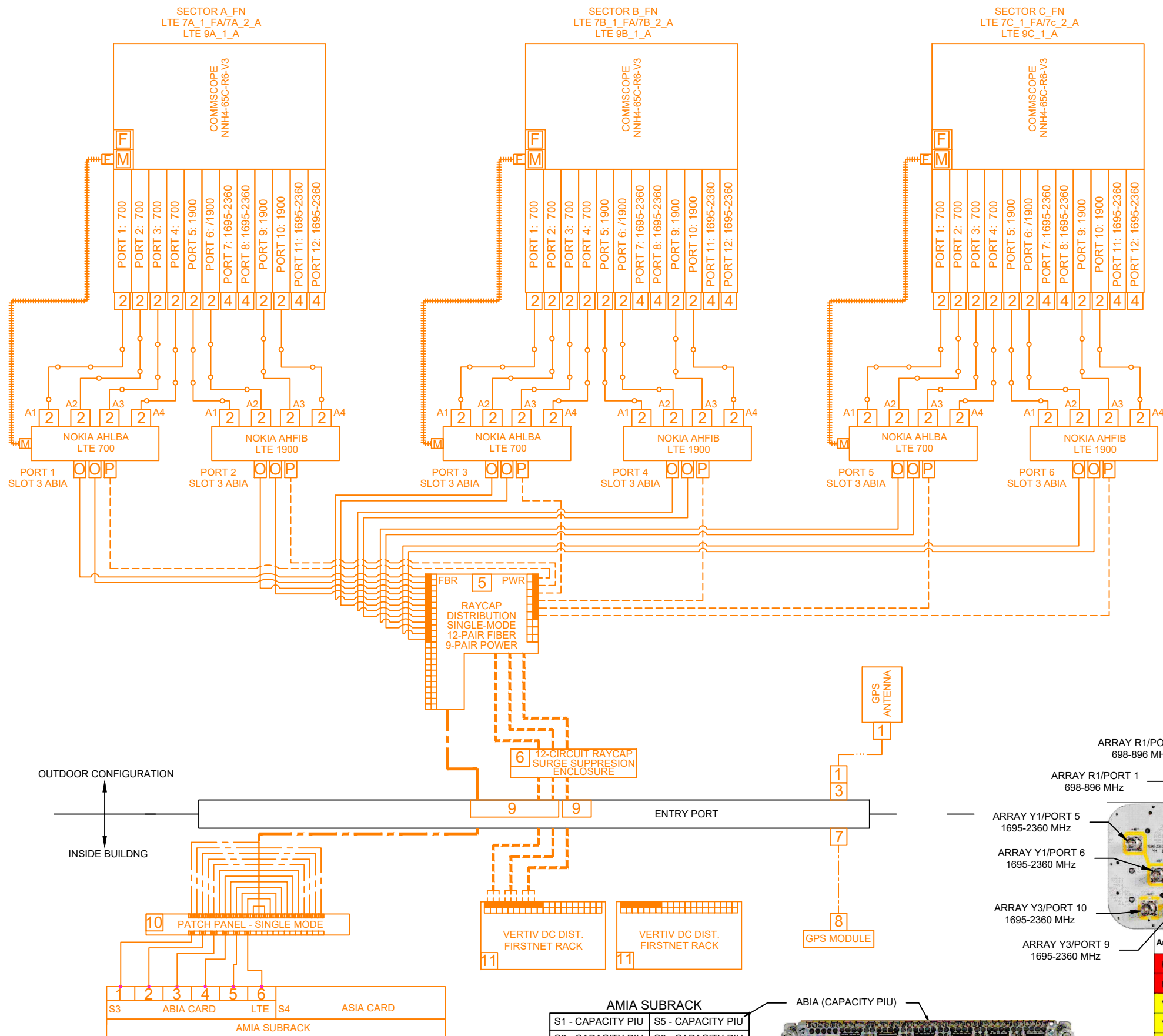
FA CODE:
15084278

PROJECT NAME:
OAK CREEK COAL

PROJECT ADDRESS:
29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

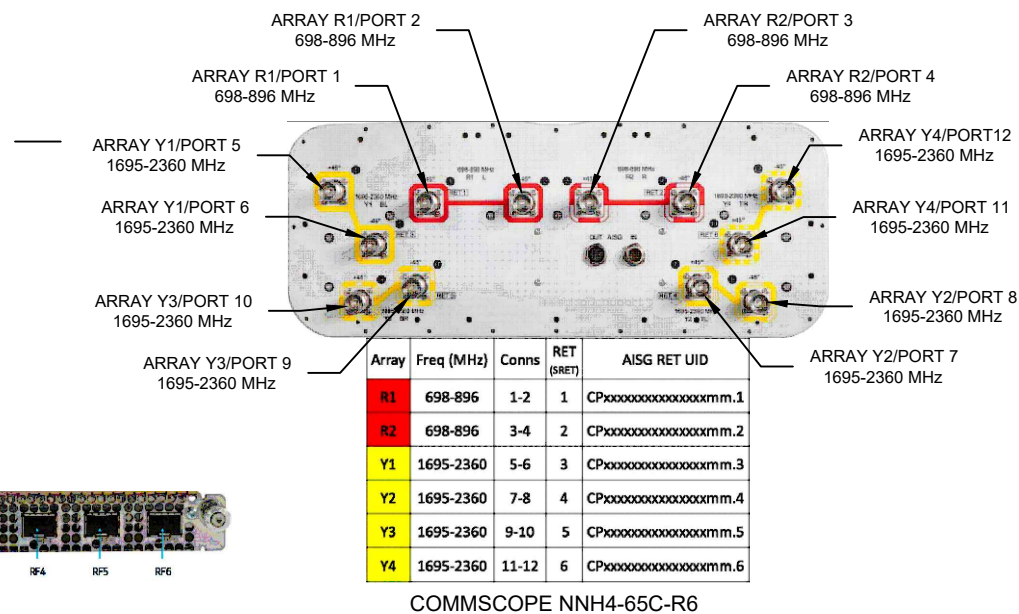
SHEET TITLE:
FN RRU MOUNTING DETAILS

SHEET NUMBER:
C6



LEGEND	
	(1) 1/2" JUMPER 4.3-10(M)-4.3-10(M) - 12'
	(1) TRUNK FIBER CABLE - 24 PAIR SM ROS FB-L98B-235-30000
	(1) TRUNK POWER CABLE - 3 PAIR 8AWG ROS WR-VG86ST-BRD
	(1) SINGLE PAIR FIBER CABLE - SM
	(1) SINGLE PAIR POWER CABLE - 8AWG
	(1) LDF4-50A
	(1) LMR-400 CABLE
	(1) RET CABLE
	NEW EQUIPMENT
	1/2" N MALE CONNECTOR - L4TNM-PSA
	1/2" 4.3-10 MALE CONNECTOR
	APG-BNFFN-350
	RL-65Z001-000N
	DC9-48-60-24-8C-EV - TOWER TOP DIST.
	DC12-48-60-0-25E - BOTTOM DC DIST.
	LMR-400 N MALE CONNECTOR
	LMR-400 SMA MALE CONNECTOR
	CX402-EB420210 4" ENTRY BOOT
	FB-SLODF013-024 - PATCH PANEL
	545277 - VERTIV DC DISTRIBUTION
	FEMALE RET CONNECTOR
	MALE RET CONNECTOR
	RRU OPTICAL PORT
	RRU POWER PORT

1 R4 RAN CABLING DIAGRAM - FIRST NET
SCALE: NO SCALE



850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV	DATE
H	03/25/2020
DESIGNER:	MATTHEW FISHER
REVIEWER:	TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID:
COL04473A

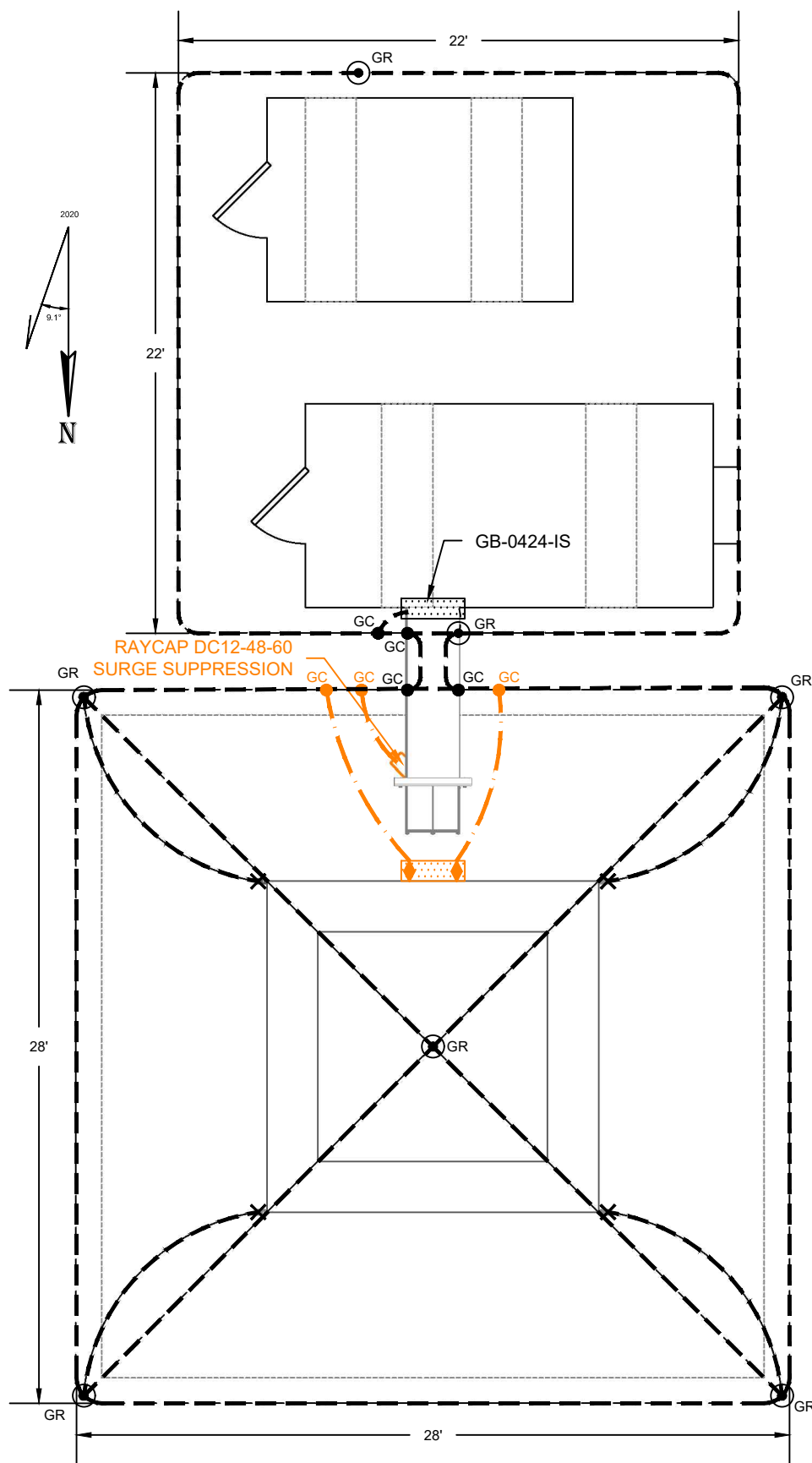
FA CODE:
15084278

PROJECT NAME:
OAK CREEK COAL

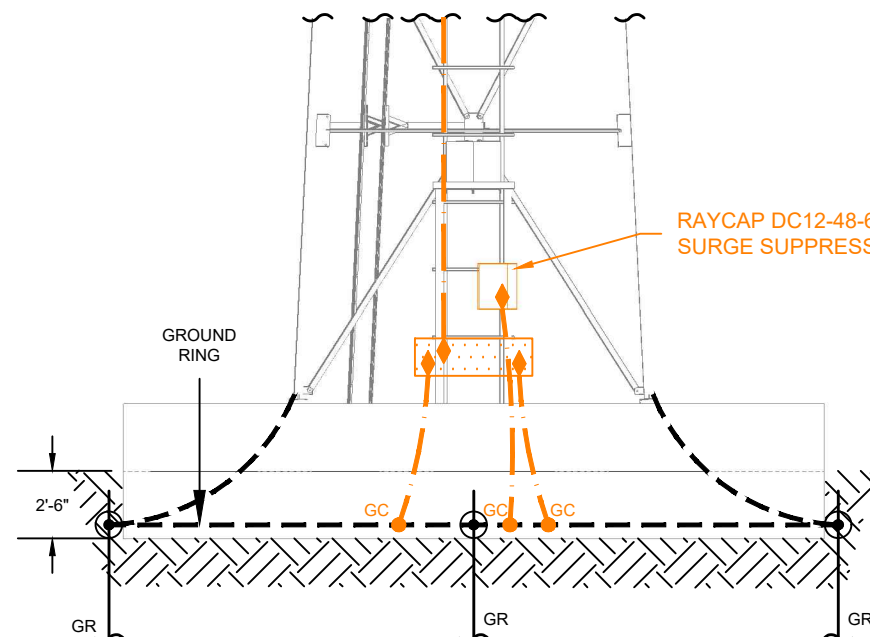
PROJECT ADDRESS:
29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:
FIRSTNET RAN DIAGRAM

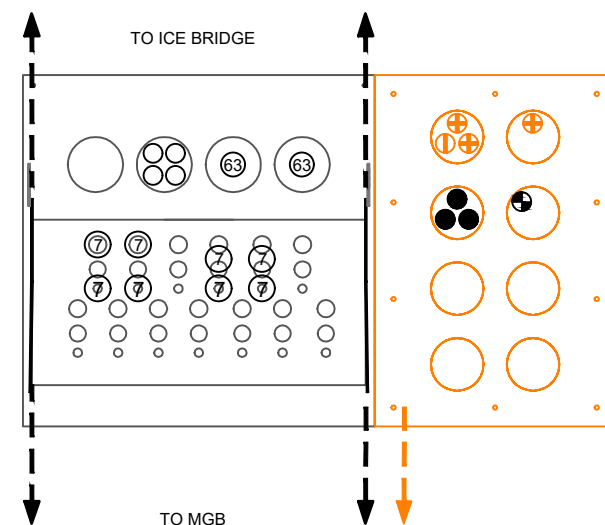
SHEET NUMBER:
R4



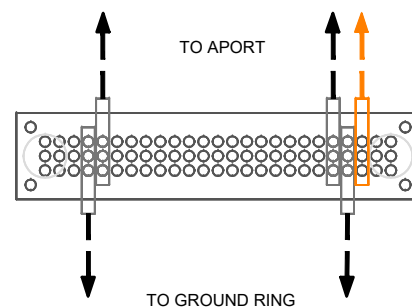
1 G1
SCALE: NO SCALE
GROUNDING DIAGRAM



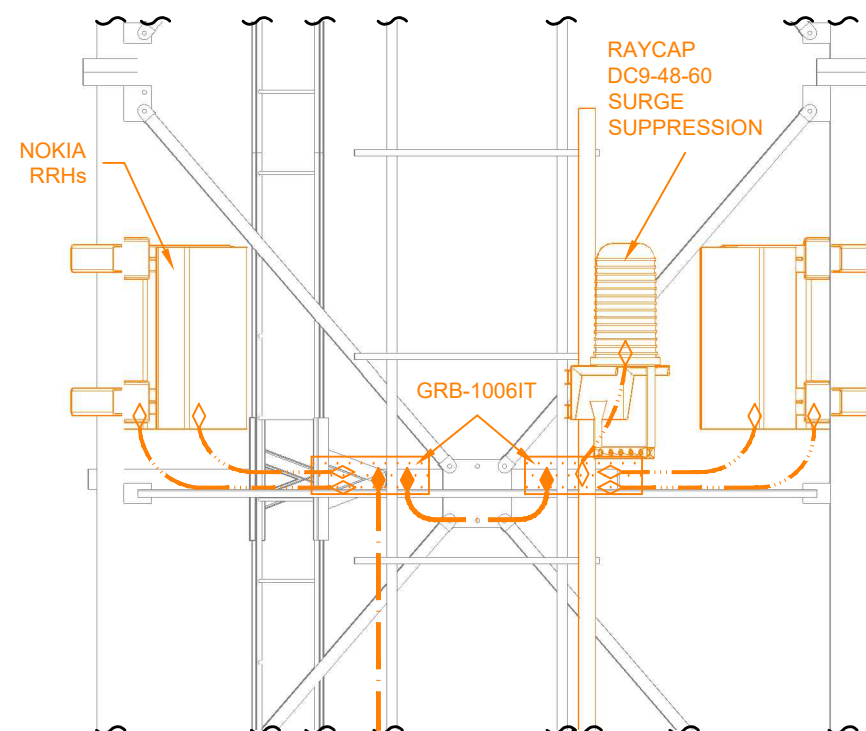
2 G1
SCALE: NO SCALE
TOWER GROUNDING ELEVATION



3 G1
SCALE: NO SCALE
A-PORT CONFIGURATION



4 G1
SCALE: NO SCALE
MAIN GROUND BUS



5 G1
SCALE: NO SCALE
TOWER GROUNDING ELEVATION

LEGEND

- GROUND ROD CONNECTION (YGHP29C26)
- GROUNDING CONNECTORS (CC 2020 OR EQUIVALENT)
- TOWER GROUND CONNECTOR (YGIBW28-550-2N)
- GROUND ROD - 8"x5/8" OD
- GROUND BAR (GB-0424-IS OR SIMILAR)
- SOLID #2 AWG TINNED COPPER WIRE - BEND RADIUS NOT TO BE LESS THAN 12"
- STRANDED #2 AWG COPPER WIRE - GREEN INSULATED
- STRANDED #6 AWG COPPER WIRE - GREEN INSULATED
- #6 AWG ONE HOLE LUG (YA6CL3BOX)
- #2 AWG LUG (YA2C2TC38)
- 1-5/8" COAXIAL CABLE - AVA7-50
- EW63 WAVEGUIDE
- 24-PAIR SINGLE MODE TRUCK FIBER CABLE
- 6-PAIR #8 AWG TRUCK POWER CABLE
- 7mm FIBER/POWER/CAT6 CABLE
- FN 24-PAIR SINGLE MODE TRUNK FIBER CABLE
- FN 3-PAIR #8 AWG TRUCK POWER CABLE
- NEW EQUIPMENT



850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV	DATE
H	03/25/2020

DESIGNER: MATTHEW FISHER

REVIEWER: TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID: COL04473A

FA CODE: 15084278

PROJECT NAME:

OAK CREEK COAL

PROJECT ADDRESS:

29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:

FIRSTNET GROUNDING DIAGRAMS

SHEET NUMBER:

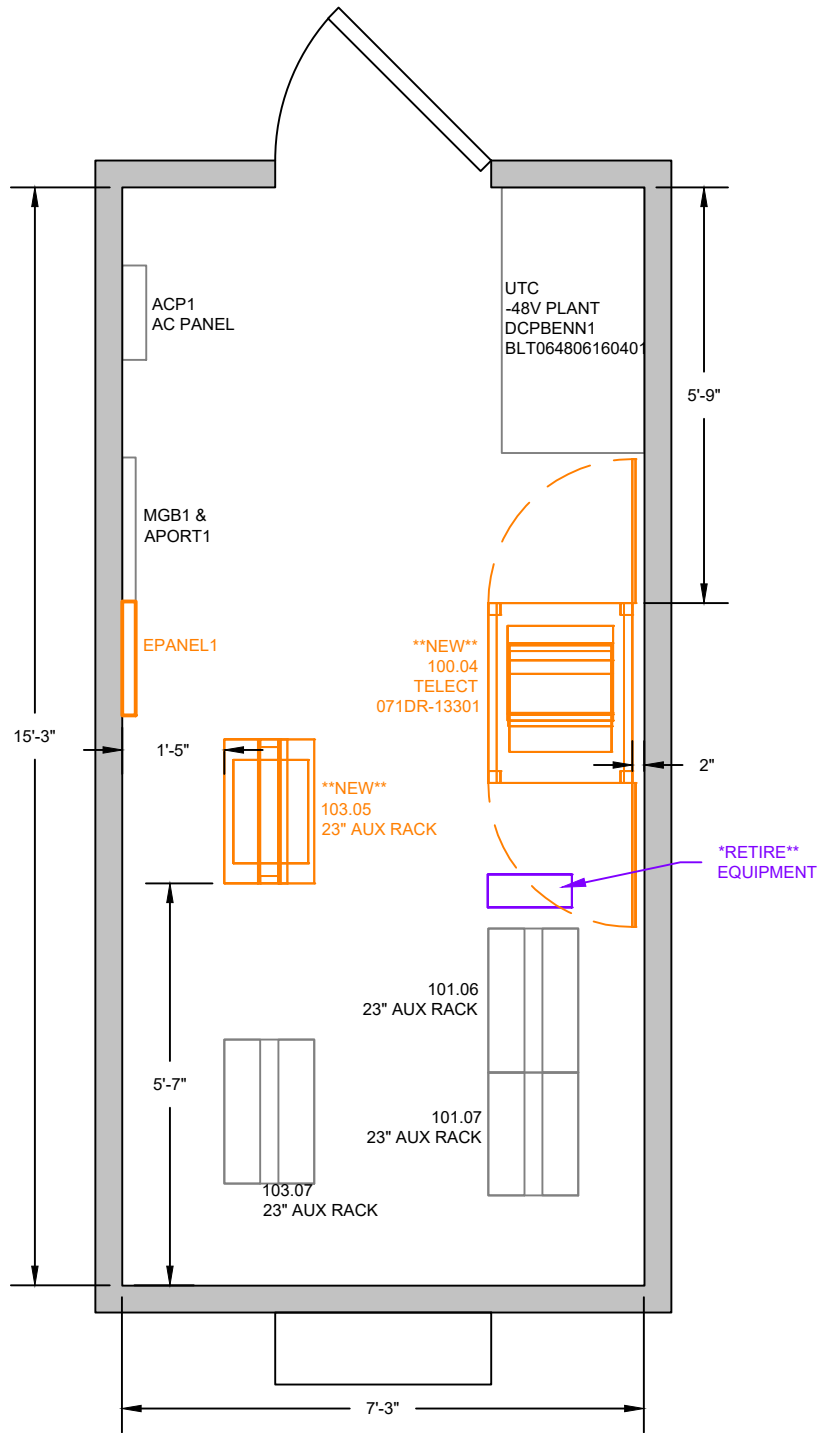
G1

LEGEND

NEW EQUIPMENT

RETIRE EQUIPMENT

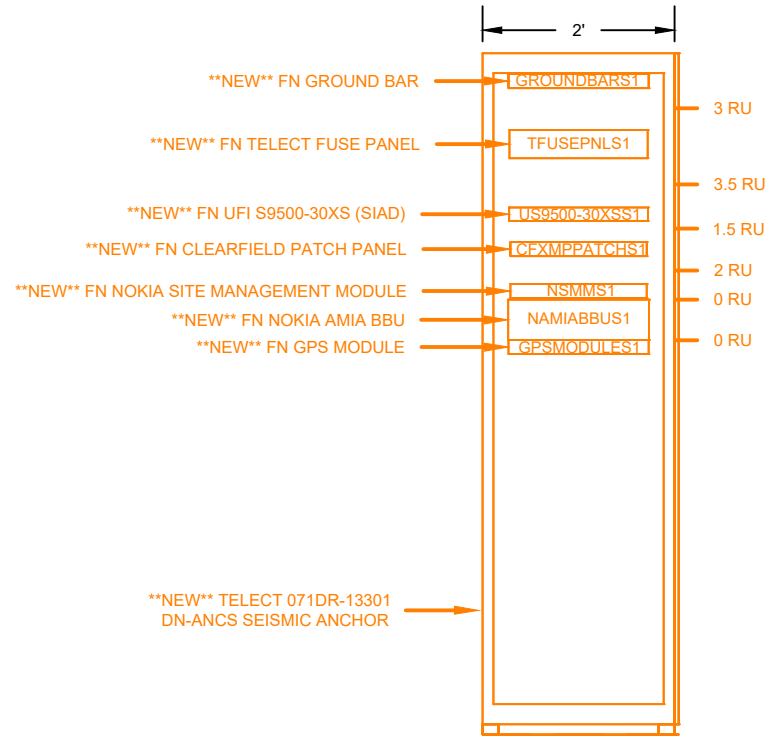
COLO EQUIPMENT



1
A1

COMMUNICATION SITE FLOOR PLAN

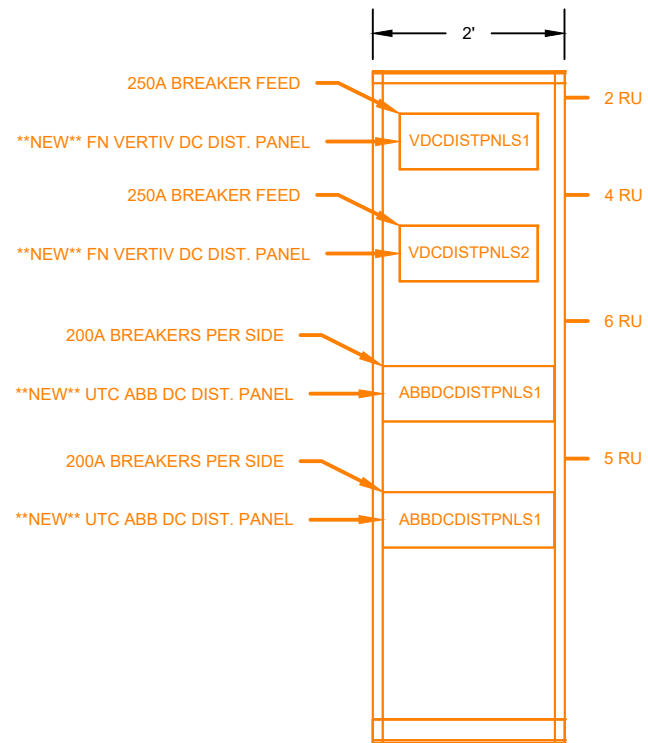
SCALE: 3"=8'



2
A1

RACK ELEVATION 100.04

SCALE: 1"=2'



3
A1

RACK ELEVATION 103.05

SCALE: 1"=2'



850 N. HIGHWAY 414
PO BOX 160
MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR DISCLOSURE OTHER THAN THOSE AUTHORIZED BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

CURRENT REV	DATE
B	03/26/2020

DESIGNER:
MATTHEW FISHER

REVIEWER:
TBD

APPROVED
FOR REVIEW
27 MARCH 2020

AT&T SITE ID:
COL04473A

FA CODE:
15084278

PROJECT NAME:
OAK CREEK COAL

PROJECT ADDRESS:
29920 COUNTY ROAD 27
OAK CREEK, CO 80467
ROUTT COUNTY

SHEET TITLE:
FN EQUIPMENT BUILDING LAYOUT

SHEET NUMBER:
A1