

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF OPTION TO LEASE effective as of the date last signed by a party hereto.

WITNESSES:

LANDLORD:

James Whiteside  
Name: JAMES WHITESIDE

David Easton  
David Easton

Colleen Easton  
Name: Colleen Easton

Date: 6-22-2023

STATE OF Colorado

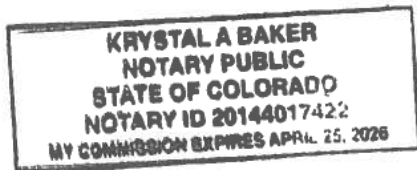
COUNTY OF Fremont

The foregoing instrument was acknowledged before me this 22<sup>nd</sup> day of June, 20 23 by David Easton.

Krystal Baker  
Notary Public

Print Name: Krystal Baker

My Commission Expires: April 25, 2026 (seal)



(Tenant's Signature Page to Memorandum of Option to Lease)

WITNESSES:

TENANT:

Alex Greenberg  
Name: Alex Greenberg  
Christopher Anteaun  
Name: Christopher Anteaun

**Vertical Bridge Development, LLC**  
a Delaware limited liability company  
By: Ariel Rubin  
Name: Ariel Rubin  
Title: Vice President of Tower Development  
Date: 07/03/2023

LEGAL  or  
 RP

STATE OF FLORIDA

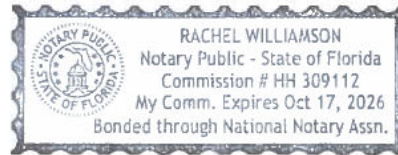
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 3<sup>rd</sup> day of July, 20 23, by Ariel Rubin (name of signatory), VPTD (title of signatory) of Vertical Bridge Development, LLC, a Delaware limited liability company, on behalf of the company.

Rachel Williamson  
Notary Public

Print Name: Rachel Williamson

My Commission Expires: Oct. 17, 2026



[Table of Contents](#)

**EXHIBIT A**  
(TO MEMORANDUM OF OPTION TO LEASE)

The Property

(may be updated by Tenant upon receipt of final legal description from title)

**Lot A, Royal Gorge Bluff's Subdivision according to the recorded plat**

**County of Fremont  
State of Colorado**

Access and utilities serving the Premises (as defined in the Agreement) includes all easements of record as well as that portion of the Property designated by Landlord and Tenant for Tenant (and Tenant's guests, agents, customers, subtenants, licensees and assigns) ingress, egress, and utility purposes to and from a public right-of-way.

**EXHIBIT 4**

Memorandum of Lease

(Attached)



(Above 3" Space for Recorder's Use Only)

**Upon Recording Return to:**

Vertical Bridge Development, LLC  
750 Park of Commerce Drive, Suite 200  
Boca Raton, Florida 33487  
Attn: Daniel Marinberg

**Site Name: Texas Creek**  
**Site Number: US-CO-5091**  
**Commitment #: VTB-147125-C**

**MEMORANDUM OF LEASE**

This Memorandum of Lease (this "**Memorandum**") evidences a Lease Agreement (the "**Lease**") between **David Easton**, a single man ("**Landlord**"), whose address is [REDACTED], and **Vertical Bridge Development, LLC**, a Delaware limited liability company, whose mailing address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487 ("**Tenant**"), dated the 3rd day of July, 2023 (the "**Effective Date**"), for a portion (the "**Premises**") of the real property (the "**Property**") described in Exhibit A attached hereto.

Landlord hereby ratifies, restates and confirms the Lease and leases to Tenant the Premises, subject to the terms and conditions of the Lease. The Commencement Date of the Lease is \_\_\_\_\_. The Lease provides for the lease by Landlord to Tenant of the Premises for an initial term of five (5) years with nine (9) renewal option(s) of an additional five (5) years each, and further provides:

1. Landlord will attorn to any mortgagee of Tenant, subordinate any Landlord's lien to the Lease and to liens of Tenant's mortgagees, and not disturb the tenancy of Tenant;
2. The Lease restricts Landlord's ability to utilize, or allow the utilization of the Property or real property owned by Landlord which is adjacent or contiguous to the Property for the construction, operation and/or maintenance of Communications Facilities (as defined in the Lease);
3. Tenant (and persons deriving rights by, through, or under Tenant) are the sole parties to market, use, or sublease any portion of the Property for Communications Facilities during the term of the Lease (such restriction shall run with the land and be binding on the successors and assigns of Landlord);

4. The Premises may be used exclusively by Tenant for all legal purposes, including, without limitation, erecting, installing, operating and maintaining Communications Facilities;

5. Tenant is entitled to sublease and/or license the Premises, including any Communications Facilities located thereon;

6. Under certain circumstances, Tenant has a right of first refusal to acquire the Premises from Landlord;

7. Landlord may assign the Lease only in its entirety and only to a purchaser of the fee interest of the Property; and

8. Under certain circumstances, Landlord may not subdivide the Property without Tenant's prior written consent.

This Memorandum is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Lease. In the event of a conflict between the provisions of this Memorandum and the provisions of the Lease, the provisions of the Lease shall control. The Lease shall be binding upon and inure to the benefit of Landlord and Tenant and shall inure to the benefit of their respective heirs, successors, and assigns, subject to the provisions of the Lease.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK, SIGNATURES  
BEGIN ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF LEASE as of the date last signed by a party hereto.

**WITNESSES:**

**LANDLORD:**

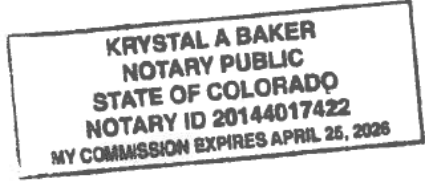
*James Whiteside*  
Name: JAMES WHITESIDE  
*Colleen Easton*  
Name: COLLEEN EASTON

**David Easton**  
a single man  
By: *David Easton*  
Name: DAVID EASTON  
Title: LANDLORD  
Date: 6-22-2023

STATE OF Colorado  
COUNTY OF Fremont

The foregoing instrument was acknowledged before me this 22<sup>nd</sup> day of June, 2023 by David Easton.

*Krystal Baker*  
Notary Public  
Print Name: Krystal Baker  
My Commission Expires: April 25, 2026 (Seal)



[Table of Contents](#)

(Tenant's Signature Page to Memorandum of Lease)

WITNESSES:

TENANT:

Alex Greenberg  
Name: Alex Greenberg  
Christopher Antoun  
Name: Christopher Antoun

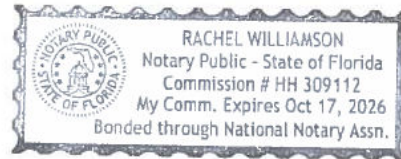
Vertical Bridge Development, LLC  
a Delaware limited liability company  
By: Ariel Rubin  
Name: Ariel Rubin  
Title: Vice President of Tower Development  
Date: 07/03/2023  
LEGAL \_\_\_\_\_ DS  
RP

STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 3<sup>rd</sup> day of July, 2023, by Ariel Rubin (name of signatory), VPTD (title of signatory) of Vertical Bridge Development, LLC, a Delaware limited liability company, on behalf of the company.

Rachel Williamson  
Notary Public  
Print Name: Rachel Williamson  
My Commission Expires: Oct. 17, 2026



[Table of Contents](#)

**EXHIBIT A**  
(TO MEMORANDUM OF LEASE)

The Property

(may be updated by Tenant upon receipt of final legal description from title)

**Lot A, Royal Gorge Bluff's Subdivision according to the recorded plat**

**County of Fremont**  
**State of Colorado**

Access and utilities serving the Premises (as defined in the Lease) includes all easements of record as well as that portion of the Property designated by Landlord and Tenant for Tenant (and Tenant's guests, agents, customers, subtenants, licensees and assigns) ingress, egress, and utility purposes to and from a public right-of-way.

Said interest being over land more particularly described by the following description:

Insert metes and bounds description of area

6790S\_SR\_T\_1\_6x24



**PROJECT:**  
**VB SITE NAME:**  
**VB SITE NUMBER:**  
**SITE ADDRESS:**

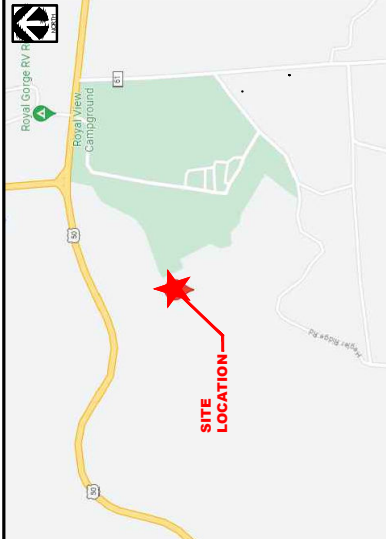
**NEW SITE BUILD**  
**TEXAS CREEK**  
**US-CO-5091**  
**HWY 50 & HWY 9**  
**CANON CITY, CO 81212**

**SITE TYPE:**  
**T-MOBILE SITE NAME:**  
**T-MOBILE SITE ID:**

**194' SELF SUPPORT**  
**TEXAS CREEK**  
**DN02546A**



**VICINITY MAP:**



**AERIAL MAP:**



**PROJECT INFORMATION:**

**SITE ADDRESS:**  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

**SITE COORDINATES:**  
 LATITUDE: 38° 29' 43.32" N (88.49637°N)  
 LONGITUDE: 105° 21' 14.34" W (-105.35395°W)

**PARCEL OWNER:**  
 DAVID S. EATON

**GEOCODE NUMBER:**  
 98924623

**APPLICANT:**  
 VB RTS II LLC  
 761 PARK OF COMMERCE DRIVE  
 BOCA RATON, FL 33487  
 PHONE: (561) 948-6387

**A&E FIRM:**  
 RAMAKER & ASSOCIATES, INC.  
 885 COMMUNITY DRIVE  
 SAUK CITY, WI 53583  
 CONTACT: ADAM SINDERMANN  
 EMAIL: ASINDERMANN@RAMAKER.COM  
 PHONE: (608) 643-4100

**ELECTRIC PROVIDER:**  
 BLACK HILLS ENERGY  
 CONTACT: TROY BEDFORD  
 EMAIL: Troy.Bedford@blackhillscorp.com  
 PHONE: (719) 288-8283

**SCOPE OF WORK:**

- PROPOSED 194' SELF SUPPORT TOWER
- PROPOSED 18"x13"x3" CONCRETE PAD WITH FULL CANOPY
- (2) PROPOSED EQUIPMENT CABINETS
- (1) PROPOSED GENERATOR
- (1) PROPOSED 100 AMP SERVICE PANELS MOUNTED ON PROPOSED ANTENNA
- (6) PROPOSED RRRHS
- (1) PROPOSED TOP OF TOWER RAYCAPS
- (1) PROPOSED PPC CABINET
- (1) PROPOSED 100 AMP SERVICE PANEL MOUNTED ON PROPOSED HOFFMAN BOX
- (1) PROPOSED NEW COMMERCIAL POWER SERVICE PER LOCAL PROVIDER DESIGN CONTRACTOR TO CONFIRM
- INSTALL (1) HYBRID TRUNK 624 (1) CSR
- IRR6 ROUTER
- INSTALL (1) ASA
- INSTALL (1) ASA
- INSTALL (3) ABIA
- INSTALL (2) ABIA
- INSTALL (2) ABIA
- INSTALL (24) COAX JUMPERS

**CODE COMPLIANCE:**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2015 INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE
- INTERNATIONAL ELECTRICAL CODE
- NFPA 780 - LIGHTNING PROTECTION CODE
- NATIONAL ELECTRICAL CODE

Know what's below. Call before you dig. www.811.com

**APPROVALS:**

**CONSTRUCTION MANAGER:**

**LANDLORD:**

SHEET NUMBER	SHEET DESCRIPTION
T-1	COVER SHEET
N-1 - N-3	COMPOUND NOTES
L-1 - L-55	SURVEY
C-1	OVERALL SITE PLAN
C-2	COMPOUND SITE PLAN
C-3	COMPOUND GRADING PLAN
C-4	EROSION CONTROL DETAILS
C-5T	T-MOBILE EQUIPMENT PLAN
A-1T	COMPOUND TOWER ELEVATION AND T-MOBILE ANTENNA LAYOUT
A-2T	T-MOBILE ANTENNA EQUIPMENT AND COAX DETAILS
A-3T	T-MOBILE ANTENNA EQUIPMENT AND COAX DETAILS
A-4T	T-MOBILE ANTENNA EQUIPMENT AND COAX DETAILS
A-5	PLUMBING DIAGRAM
A-6T	T-MOBILE EQUIPMENT AND COAX DETAILS
A-7T	T-MOBILE EQUIPMENT AND COAX DETAILS
A-8T	T-MOBILE EQUIPMENT AND COAX DETAILS
A-9T	T-MOBILE EQUIPMENT DETAILS
A-10T	T-MOBILE EQUIPMENT DETAILS
A-11T	T-MOBILE EQUIPMENT DETAILS
A-12T	T-MOBILE EQUIPMENT DETAILS
A-13	SIGNAGE
A-14	COMPOUND SITE DETAILS
A-15	COMPOUND SITE DETAILS
S-1	STRUCTURAL DETAILS
S-2T	T-MOBILE ANTENNA SECTOR FRAME DETAILS
E-1	OVERALL UTILITY SITE PLAN
E-2	ENLARGED UTILITY SITE PLAN
E-3T	T-MOBILE UTILITY PLAN
E-4T	T-MOBILE EQUIPMENT UTILITY PLAN
E-5T	T-MOBILE UTILITY RISER AND POWER BOARD SCHEDULE
E-6	COMPOUND UTILITY DETAILS
E-7	COMPOUND GROUNDING PLAN
E-8T	TYPICAL T-MOBILE GROUNDING RISER
E-9T	TYPICAL T-MOBILE EQUIPMENT GROUNDING ELEVATION
E-10	COMPOUND GROUNDING DETAILS
E-11	COMPOUND GROUNDING DETAILS

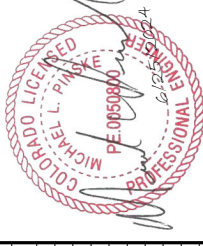
**SHEET INDEX**

MARK	DATE	DESCRIPTION	FINAL	DATE ISSUED
A	08/13/24	REDLINES		06/25/2024
B	08/13/24	CHANGE TOWER HEIGHT		
C	11/28/23	GRAADING PLAN ADDED		
D	07/26/24	FINAL CDR ISSUED		
E	04/11/24	JURISDICTION COMMENTS		
F	06/25/24	JURISDICTION COMMENTS		

**CONSTRUCTION COMMENTS**

1. Verify clearly that this plan, specification, or report was prepared by the Professional Engineer under the laws of the State of Colorado.

2. I hereby certify that this plan, specification, or report was prepared by the Professional Engineer under the laws of the State of Colorado.



US-CO-5091 / DN02546A

**PROJECT INFORMATION:**  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

**TITLE SHEET**

SCALE: NONE

1-1









A. TOWER

1. FIRST TEST - SHALL BE WITH THREE GROUND RODS INSTALLED (MINIMUM), EQUALLY SPACED AROUND THE TOWER FOUNDATION, BUT NOT CONNECTED TO THE SHELTER PAD EXTERNAL GROUND RING. FURNISH WIRE TO CONNECT EACH ROD TO THE SHELTER PAD. AFTER THE FIRST TEST, MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL THREE (3) RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
2. SECOND TEST - SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS. THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE MAXIMUM ALLOWABLE READING IS NOT MET, NOTIFY THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE. SHOULD BE NOTIFIED SO THAT EITHER ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.

C. EQUIPMENT PAD AND TOWER

1. AFTER THE EQUIPMENT PAD AND TOWER GROUND RESISTANCE TEST IS COMPLETED, CONTRACTOR SHALL TIE EQUIPMENT PAD EXTERNAL GROUND RING AND TOWER EXTERNAL GROUND RING TOGETHER. AFTER FIRST AND SECOND TEST ALL CONNECTIONS MUST BE MADE USING EXOTHERMIC WELD. NO COPPER OR BRASS WELDS ARE ALLOWED.
2. AFTER ALL THE EXTERNAL GROUND RINGS ARE TIED TOGETHER, COMPLETE A MEGGER CHECK OF THE GROUND SYSTEM SHOULD BE DONE. THE MAXIMUM ALLOWABLE LEADING IS 5 OHMS TO GROUND. 10. GROUNDING RESISTANCE TEST - CONTRACTOR SHALL TEST EACH TOWER AND EACH AUXILIARY POTENTIAL ELECTRODES AT 5 FEET AND 10 FEET INTERVALS UNTIL THE AVERAGE RESISTANCE STARTS INCREASING AND ALSO NOTE THAT 10-15 PHOTOS MUST BE TAKEN OF EACH TOWER AND EACH SET OF TEST DOCUMENTS ARE OF BEFORE BACKFILL. TWO (2) SETS OF TEST DOCUMENTS ARE OF THE INDEPENDENT TESTING SERVICE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.
10. GROUNDING RESISTANCE TEST REPORT UPON COMPLETION OF THE TESTS. CONTRACTOR SHALL TEST EACH TOWER AND EACH OHMS WITH AUXILIARY POTENTIAL ELECTRODES AT 5 FEET AND 10 FEET INTERVALS UNTIL THE AVERAGE RESISTANCE STARTS INCREASING AND ALSO NOTE THAT 10-15 PHOTOS MUST BE TAKEN TO PROOF ENTIRE EXTERNAL GROUND RING SYSTEM BEFORE BACKFILL. CONTRACTOR SHALL SUBMIT TWO (2) SETS OF TEST DOCUMENTS TO TESTING SERVICE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

**SECTION 16003 - POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF-SUPPORTING TOWERS)**

1. GENERAL

- A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL POLE WANCES TO BE FURNISHED BY OWNER. IF REQUIRED, PROVIDE WANCES TO BE FURNISHED BY OWNER. PROVIDE WANCES DURING CONSTRUCTION IF REQUIRED.
- B. REGULATIONS: GROUND TOWER WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CAD WELDED TO TOWER BASE PLATE. TWO (2) GROUNDING LEADS PER TOWER MUST BE PROVIDED. TWO (2) GROUNDING LEADS SHALL BE ATTACHED DIRECTLY TO THE MONOPOLE TOWER SHAFT.



emp@ramaker.com  
(808) 643-4100 www.ramaker.com  
Contractors Local  
1. I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Colorado.



NO.	DATE	DESCRIPTION	FINAL	DATE ISSUED
1	04/11/24	JURISDICTION COMMENTS		
0	07/26/24	FINAL CD# ISSUED		
C	11/28/23	GRAVING PLAN ADDED		
B	09/18/23	CHANGE TOWER HEIGHT		
A	09/13/23	REDLINES		

MARK PHASE DATE DESCRIPTION FINAL DATE ISSUED 06/25/2024

PROJECT TITLE

US-CO-5091 / DN02546A

PROJECT INFORMATION:  
HWY 50 & HWY 9  
CANON CITY, CO 81212  
FREMONT COUNTY

COMPOUND NOTES

SCALE: NONE









VERTICAL BRIDGE  
750 PARK OF COMMERCE DR #200  
BOCA RATON, FL 33487  
OFFICE (561) 948-6387



CONFIDENTIAL



MARK	DATE	DESCRIPTION	DATE ISSUED
1	8/7/23	SURVEY	
2		LEASE AND EASEMENT	
3	9/11/23	REVISE ACCESS AND UTILITY EASEMENT	
4	9/29/23	REVISE CERTIFICATION	
5	4/4/24	UPDATE EX. ACCESS EBM# LOT A	

PROJECT TITLE:  
FA# XXXXXXXX  
SITE # US-CO-5091  
TEXAS CREEK

PROJECT INFORMATION:  
43340 US HIGHWAY 50  
CANYON CITY, CO 81212  
FREMONT COUNTY

SHEET TITLE:  
TOPOGRAPHIC SURVEY

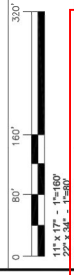
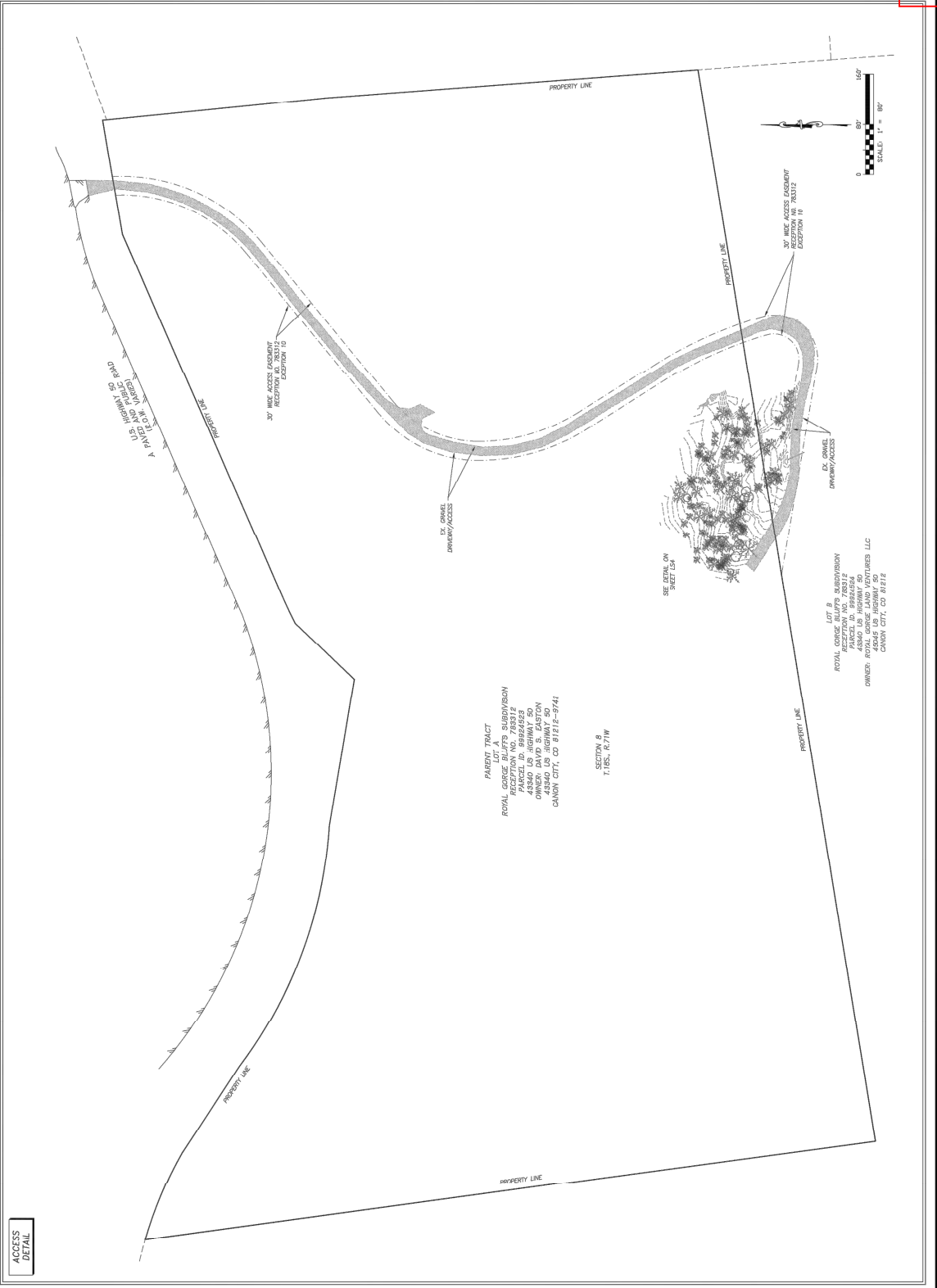


TABLE OF CONTENTS

TOPOGRAPHIC SURVEY  
VERTICAL BRIDGE SITE US-CO-5091 TEXAS CREEK  
SITUATED IN SECTION 8, TOWNSHIP 18 SOUTH, RANGE 71 WEST OF THE 6TH P.M.  
COUNTY OF FREMONT, STATE OF COLORADO



PARCEL TRACT  
LOT A  
ROYAL GORGE BLUFFS SUBDIVISION  
PARCEL ID: 98924528  
43340 US HIGHWAY 50  
CANYON CITY, CO 81212-5741

SECTION 8  
T. 18S., R. 71W

LOT B  
ROYAL GORGE BLUFFS SUBDIVISION  
PARCEL ID: 98924529  
43340 US HIGHWAY 50  
CANYON CITY, CO 81212

ACCESS  
DETAIL

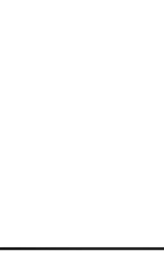
**TOPOGRAPHIC SURVEY**  
**VERTICAL BRIDGE SITE US-CO-5091 TEXAS CREEK**  
 SITUATED IN SECTION 8, TOWNSHIP 18 SOUTH, RANGE 71 WEST OF THE 6TH P.M.  
 COUNTY OF FREMONT, STATE OF COLORADO



**VERTICAL BRIDGE**  
 750 PARK OF COMMERCE DR #200  
 BOCA RATON, FL 33487  
 OFFICE (561) 948-6387

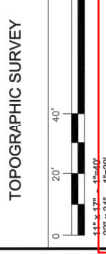


**RAMAKER**  
 ENGINEERS-ARCHITECTS  
 (303) 643-4100 www.ramaker.com  
 Construction 1 Scale

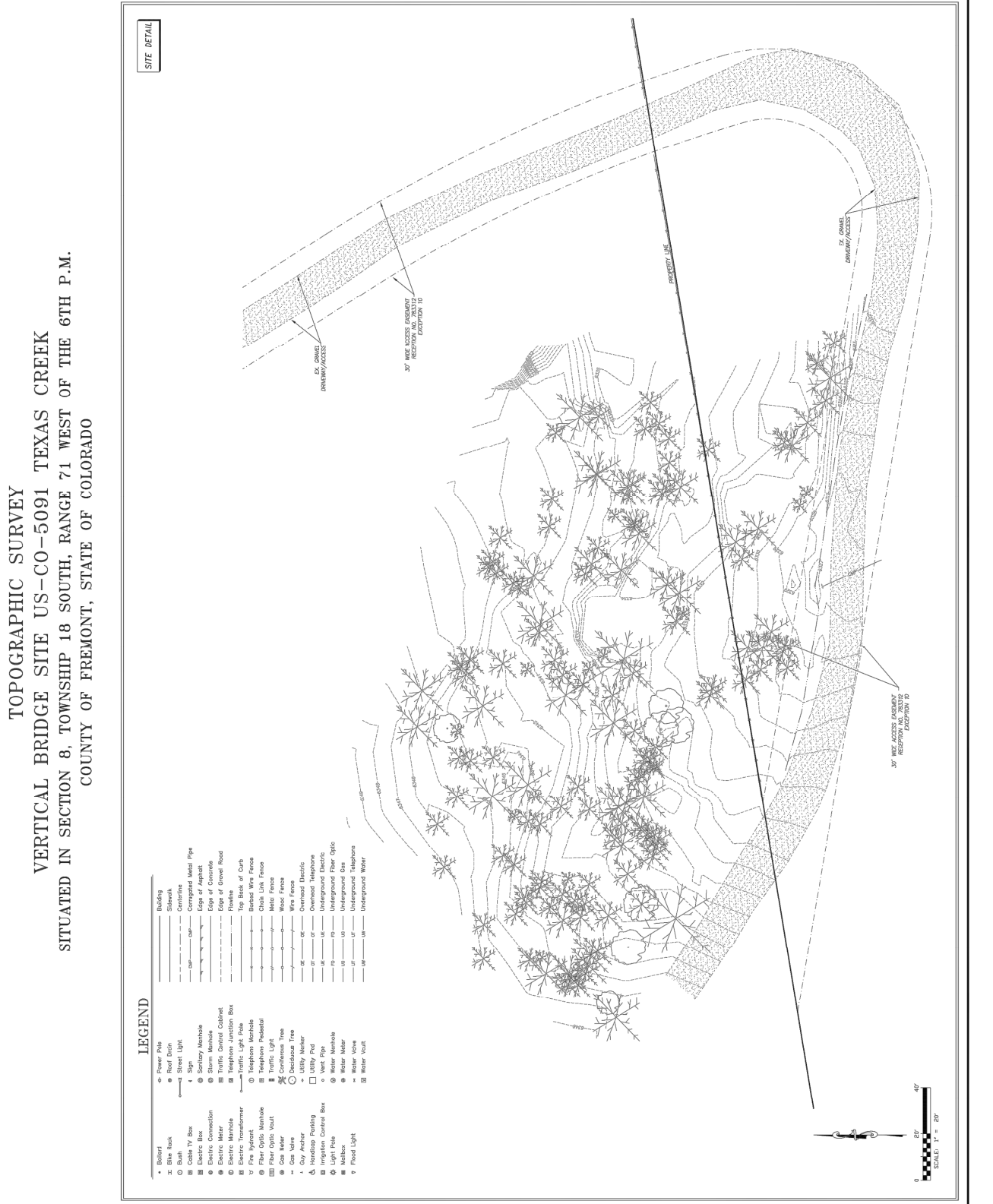


5	4/4/24	UPDATE EX. ACCESS EBM1 LOT A
4	9/29/23	REVISE CERTIFICATION
3	9/11/23	REVISE ACCESS AND ADD UTILITY EASEMENT
2	9/1/23	LEASE AND EASEMENT
1	8/7/23	SURVEY

MARKING DATE DESCRIPTION DATE ISSUED  
 PROJECT TITLE  
 FA# XXXXXXXX  
 SITE # US-CO-5091  
 TEXAS CREEK  
 PROJECT INFORMATION  
 43340 US HIGHWAY 50  
 CANYON CITY, CO 81212  
 FREMONT COUNTY  
 SHEET TITLE: TOPOGRAPHIC SURVEY



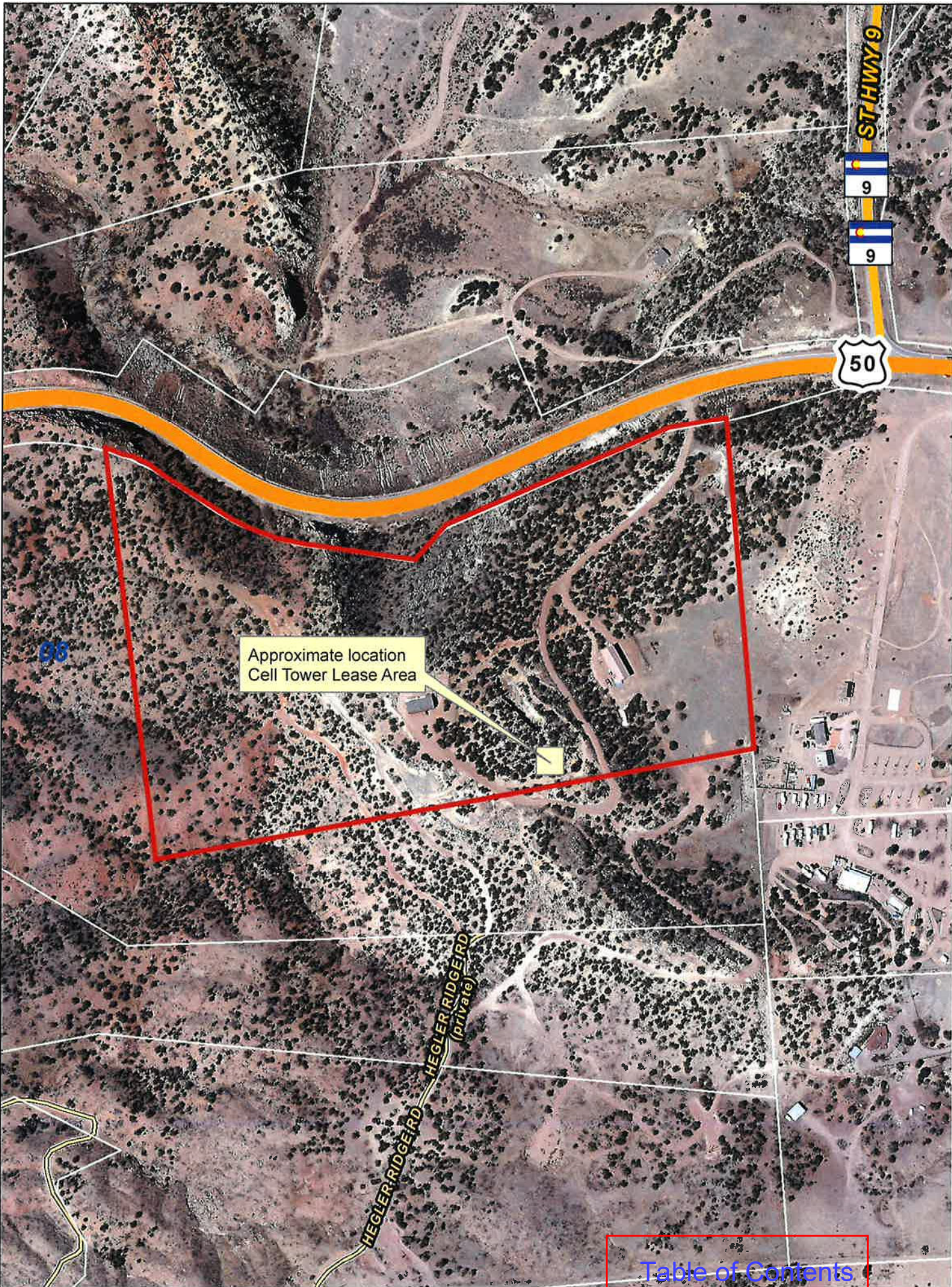
**Table of Contents**













Approximate location  
Cell Tower Lease Area

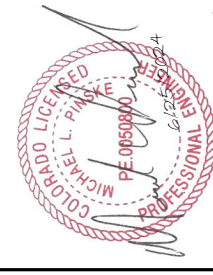
[Table of Contents](#)







**RAMAKER**  
engineer-architect  
(608) 643-4100 www.ramaker.com  
Certification # 5041  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Colorado.

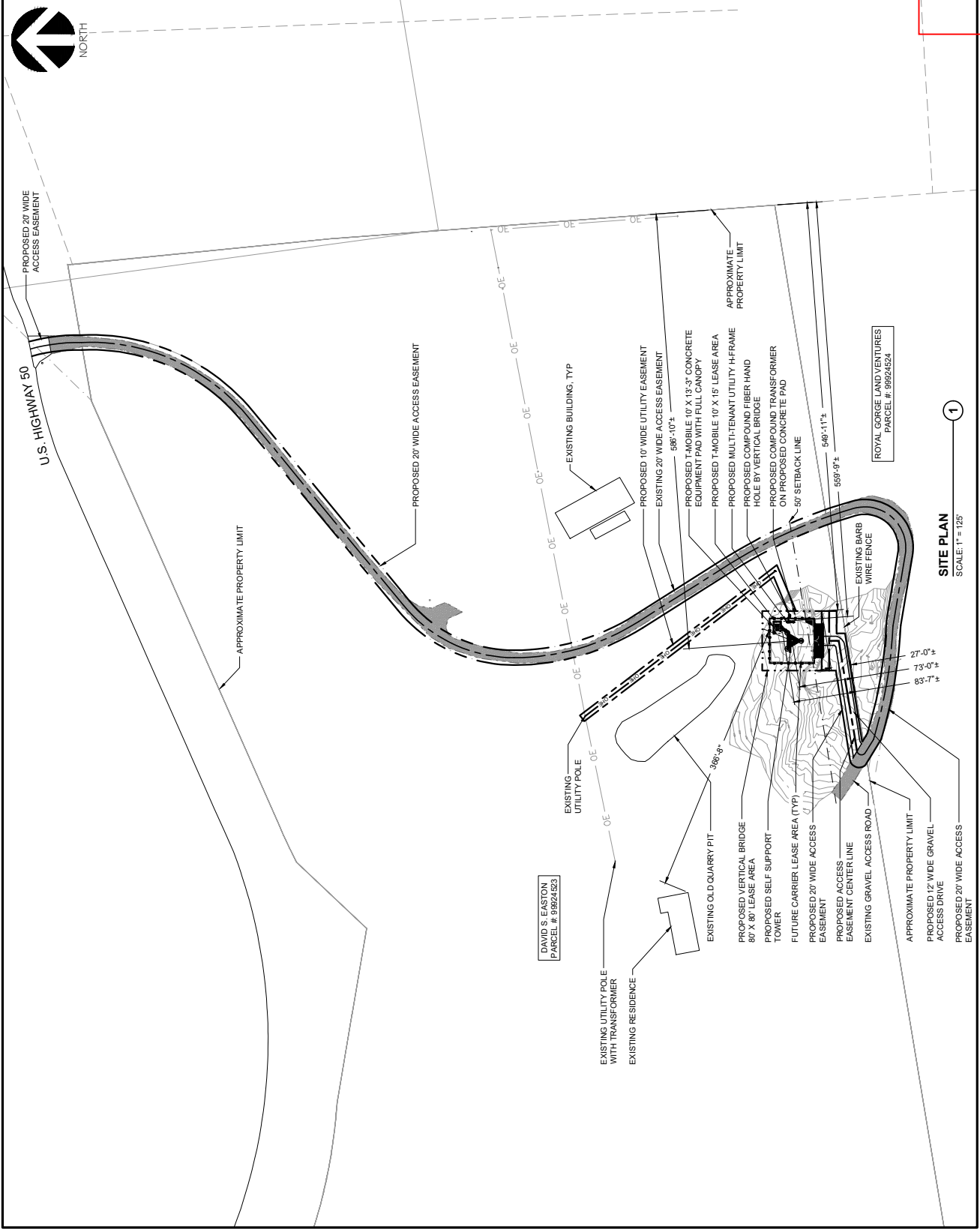


CONCORD LICENSED  
MICHAEL L. PINSKY  
PE 0050900  
PROFESSIONAL ENGINEER  
12/25/2014

NO.	DATE	DESCRIPTION	DATE ISSUED
2	06/25/24	JURISDICTION COMMENTS	
1	04/11/24	FINAL CDR ISSUED	
0	07/26/24	FINAL CDR ISSUED	
C	11/28/23	GRAVING PLAN ADDED	
B	08/18/23	CHANGE TOWER HEIGHT	
A	08/13/23	REDLINES	

WORK PHASE: FINAL  
DATE ISSUED: 06/25/2024  
PROJECT TITLE: US-CO-5091 / DN02546A

PROJECT INFORMATION:  
HWY 50 & HWY 9  
CANON CITY, CO 81212  
FREMONT COUNTY





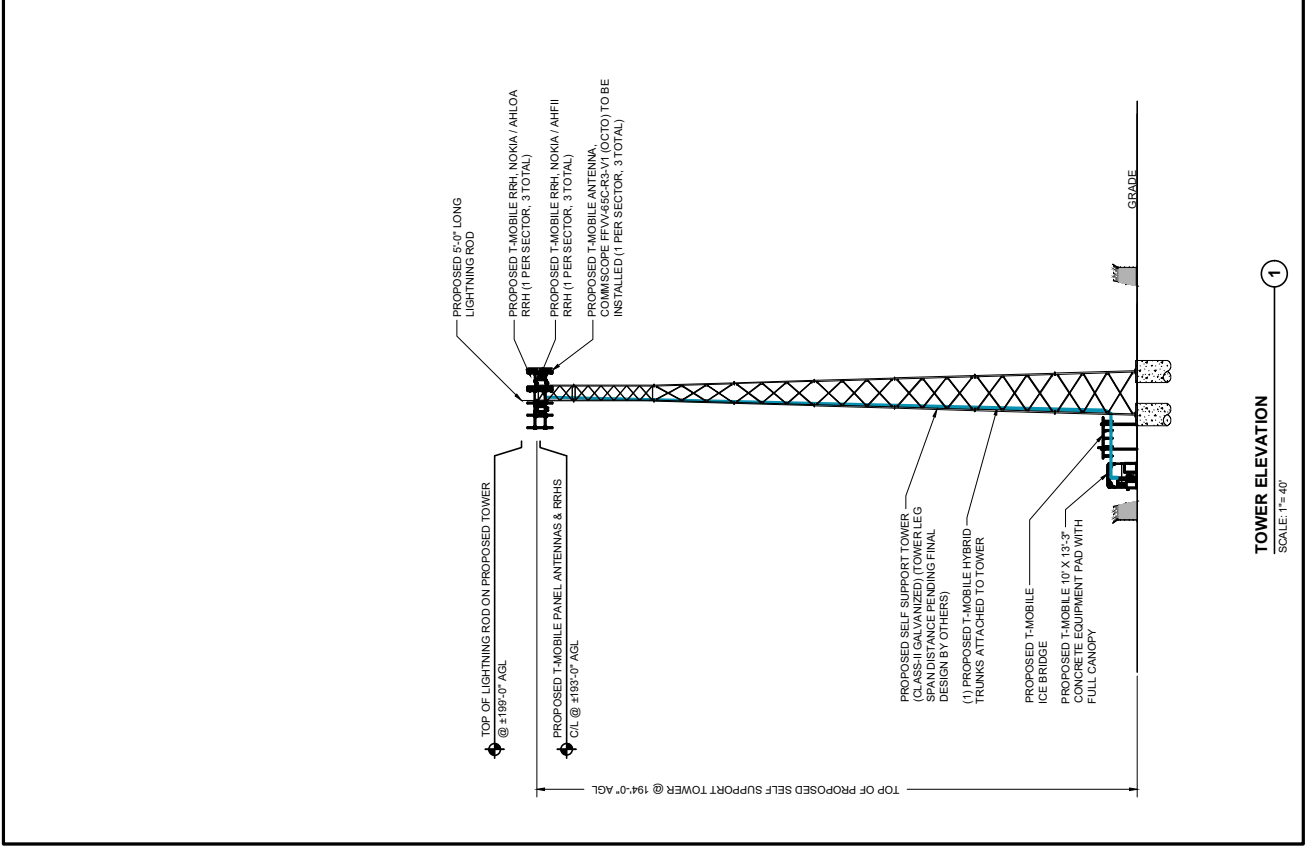




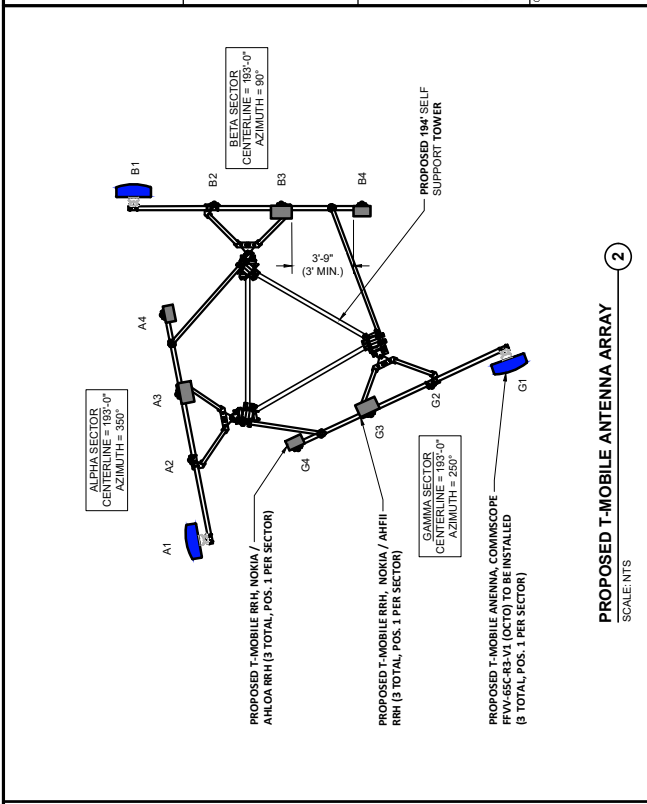




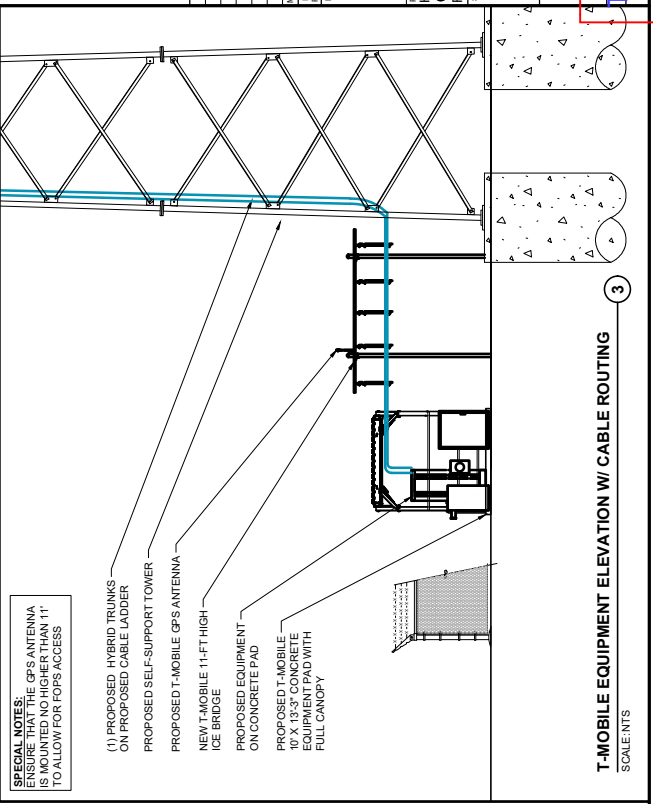




**TOWER ELEVATION**  
 SCALE: 1" = 40'



**PROPOSED T-MOBILE ANTENNA ARRAY**  
 SCALE: NTS



**T-MOBILE EQUIPMENT ELEVATION W/ CABLE ROUTING**  
 SCALE: NTS

**RAMAKER**  
 engineering - civil  
 (608) 643-4100 www.ramaker.com  
 Construction Solutions

2	06/25/24	JURISDICTION COMMENTS
1	04/11/24	JURISDICTION COMMENTS
0	07/26/24	FINAL CD# ISSUED
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MARK / DATE / DESCRIPTION  
 PHASE / DATE / ISSUED / PROJECT TITLE  
 FINAL / 06/25/2024 / US-CO-5091 / DN02546A

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**COMPOUND TOWER ELEVATION & T-MOBILE ANTENNA LAYOUT**

1 1/4" x 1 1/4" = 1" = 40'  
 1 1/8" x 1 1/8" = 1" = 20'

**Table of Contents**

SHEET NUMBER: **A-11**


### ANTENNA & LINE SCHEDULE


SECTOR	POS.	TECHNOLOGY	ANTENNA MODEL NUMBER	ANTENNA MANUFACTURER	ANTENNA CABLES	AZIMUTH	RAD CENTER	ELECT D-TILT	MECH D-TILT	RRM MODEL NUMBER	RRM MANUFACTURER	JUMPER SIZE	JUMPER QTY	JUMPER LENGTH	HYBRID CABLE LENGTH	TOP OF TOWER EQUIPMENT
ALPHA	A1	LE900N800L1NWS3 L7000L1800L2100/ N1900/N2100	FFW-65C-R3-V1 (OCTO)	COMMSCOPE	HYBRID TRUNK	350°	-	6	-	-	-	-	-	-	-	(1) 6x24 HCS (24) COAX JUMPERS
	A2	-	-	-	-		183'-0"	6	-	-	-	-	-	-	-	
	A3	-	-	-	-	-	-	3	-	(1) AHFI	NOKIA	6x24HCS	(1)	15'-0"	-	
	A4	-	-	-	-	-	-	3	-	(1) AHLOA	NOKIA	6x24HCS	(2)	15'-0" 15'-0"	-	
BETA	B1	LE900N800L1NWS3 L7000L1800L2100/ N1900/N2100	FFW-65C-R3-V1 (OCTO)	COMMSCOPE	(SHARED)	90°	-	6	-	-	-	-	-	-	-	(1) 6x24 HCS (24) COAX JUMPERS
	B2	-	-	-	-		183'-0"	6	-	-	-	-	-	-	-	
	B3	-	-	-	-	-	-	3	-	(1) AHFI	NOKIA	6x24HCS	(1)	15'-0"	-	
	B4	-	-	-	-	-	-	3	-	(1) AHLOA	NOKIA	6x24HCS	(2)	15'-0" 15'-0"	-	
GAMMA	G1	LE900N800L1NWS3 L7000L1800L2100/ N1900/N2100	FFW-65C-R3-V1 (OCTO)	COMMSCOPE	(SHARED)	250°	-	6	-	-	-	-	-	-	-	(1) 6x24 HCS (24) COAX JUMPERS
	G2	-	-	-	-		183'-0"	6	-	-	-	-	-	-	-	
	G3	-	-	-	-	-	-	3	-	(1) AHFI	NOKIA	6x24HCS	(1)	15'-0"	-	
	G4	-	-	-	-	-	-	3	-	(1) AHLOA	NOKIA	6x24HCS	(2)	15'-0" 15'-0"	-	

RFDS DESIGN VERSION: 1  
 DATE: 01/24/2023

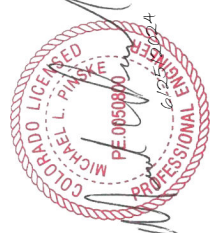
NOTES:  
 1. GENERAL CONTRACTOR TO VERIFY FINAL RF CONFIGURATION WITH T-MOBILE RF ENGINEER PRIOR TO INSTALLATION.

ANTENNA AND COAXIAL CABLE SCHEDULE:  
 1. ALL ANTENNAS SHALL BE FURNISHED WITH DOWN TILT BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWN TILT FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWN TILT SHALL BE SET AND VERIFIED BY A SMART LEVEL.  
 2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0'-0".  
 3. CONTRACTOR SHALL INSTALL COLOR CODE RINGS AT EACH OF THE HYBRID CABLES AND JUMPER CABLES WITH UV RESISTANT TAPE. ALL CABLES SHALL BE MARKED AT TOP AND BOTTOM WITH 2" COLOR TAPE OR 5 TENCIL TAG. COLOR TAPE MAY BE OBTAINED FROM GARY BAR ELECTRONICS.





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CONRAD LIC. 005090  
 MICHAEL L. PINSKY  
 PROFESSIONAL ENGINEER  
 STATE OF WISCONSIN

2	06/25/24	JURISDICTION COMMENTS
1	04/11/24	JURISDICTION COMMENTS
0	07/26/24	FINAL CD# ISSUED
C	11/28/23	GRAVING PLAN ADDED
B	09/18/23	CHANGE TOWER HEIGHT
A	08/13/23	REDLINES
MARK	DATE	DESCRIPTION
PHASE	ISSUED	FINAL
PROJECT TITLE	US-CO-5091 / DN02546A	

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**T-MOBILE ANTENNA AND LINE SCHEDULE**

SCALE: NONE

**Table of Contents**  
 SHEET NUMBER  
**A-21**

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### AHFII AirScale RRH 4T4R B25/66 480W

Specification Details	
Standard	3GPP compliant FDD-LTE, IMC, GSM, WCDMA
Band / Frequency range	Band 28: 84 - 930 MHz - 1935 MHz - 1935 MHz - 1935 MHz Band 29: 84 - 930 MHz - 1935 MHz - 1935 MHz - 1935 MHz Band 30: 84 - 930 MHz - 1935 MHz - 1935 MHz - 1935 MHz
Max. supported modulation	256QAM/16/1024-QAM/256
Number of TX/RX ports	4T4R
Instantaneous bandwidth BW	Full Band
Occupied bandwidth OBW	OBW B25: 630MHz (B20), B66: 79MHz (B1), 909MHz (B1)
Max. output power per TX	480W (60W per band) up to 440W in other band
Core Dimensions (mm) W x H x D	350 x 645 x 120
Envelope Dimensions (mm) W x H x D	370 x 676 x 150 (Not to exceed)
Volume	<25l
Weight	~32.5 kg
Supply voltage / Connector type	DC -40.5 V -- -60 V / 2 pole connector
Power consumption	100% RF Loading: 1869 W 24hr weighted: 1103 W
Antenna ports	4 x 4.3-10
Optical ports	CPRI 9.8 Gbps (Rate 7)
Other interfaces / Connector type	RET RS485, AS5G 3.0, EAC (NOR2)
Operational temperature range	-40°C ~ +55°C
Cooling	Forced Convection (Fan)
Installation options	Pole, wall, rail
Ingress / Surge protection	IP65, DC Power Port: 20 MA 8/20µs

### AirScale Multiband RRH Benefits

- Up to 4x80W in either AWS or PCS bands while 4x40W in the other band
- CPRI Fronthaul interface
- Up to 1024 QAM DL Capable hardware
- Up to 3x5728 Ports
- Integrated PIM Cancellation
- Wide NR carriers (up to 40MHz)
- Up to max. 8 carrier per TX across both bands



AHFII 475656A

**NOKIA**

**PROPOSED AHFII DETAILS**

SCALE: NTS

1

### Nokia Dual Low Band Radio Specification

**AHLOA: 600MHz/700MHz Radio (4Tx4Rx RRH)**

Configuration	Specification
Configurable	4T4R Dual Band
Output Power	4x80W
BW/GBW	Full Band/Full Band
PIM Cancellation	Yes (Multi Band)
Power Sharing	Yes
Weight	83.7 lbs. with no covers & brackets
Dimensions	560 mm x 308 mm x 189 mm
Connector	4.3-10* (4 ports)

**AHLOA**

- Based on Airscale Platform
- Tower installation only (No Ground Installation)
- License requirement for MIMO Functions and Dual Band
- Utilizes 4.3-10 RF Connector
- CPRI fiber front haul
- Product expected Q2 2018



**PROPOSED AHLOA DETAILS**

SCALE: NTS

2

**US-CO-5091 / DN02546A**

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**T-MOBILE ANTENNA EQUIPMENT AND COAX DETAILS**

SCALE:  
 AS NOTED

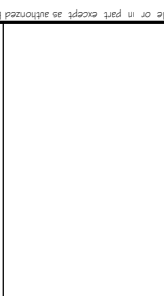
**Table of Contents**

SHEET NUMBER  
**A-41**



CONFIDENTIAL

1



NO.	DATE	DESCRIPTION	DATE ISSUED
2	06/25/24	JURISDICTION COMMENTS	06/25/2024
1	04/11/24	JURISDICTION COMMENTS	
0	07/26/24	FINAL CDR ISSUED	
C	11/28/23	GRAVING PLAN ADDED	
B	09/18/23	CHANGE TOWER HEIGHT	
A	09/13/23	REDLINES	
FRASE	FINAL	DATE	06/25/2024

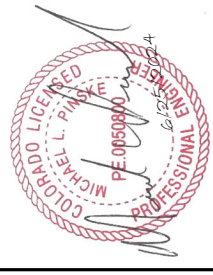




**Configuration 6790S\_SR**  
(Alpha, Beta, Gamma)



Continuation Sheet  
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MARK	DATE	DESCRIPTION	DATE ISSUED	FINAL PROJECT TITLE
2	06/25/24	JURISDICTION COMMENTS		
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B	09/18/23	CHANGE TOWER HEIGHT		
A	09/13/23	REDLINES		

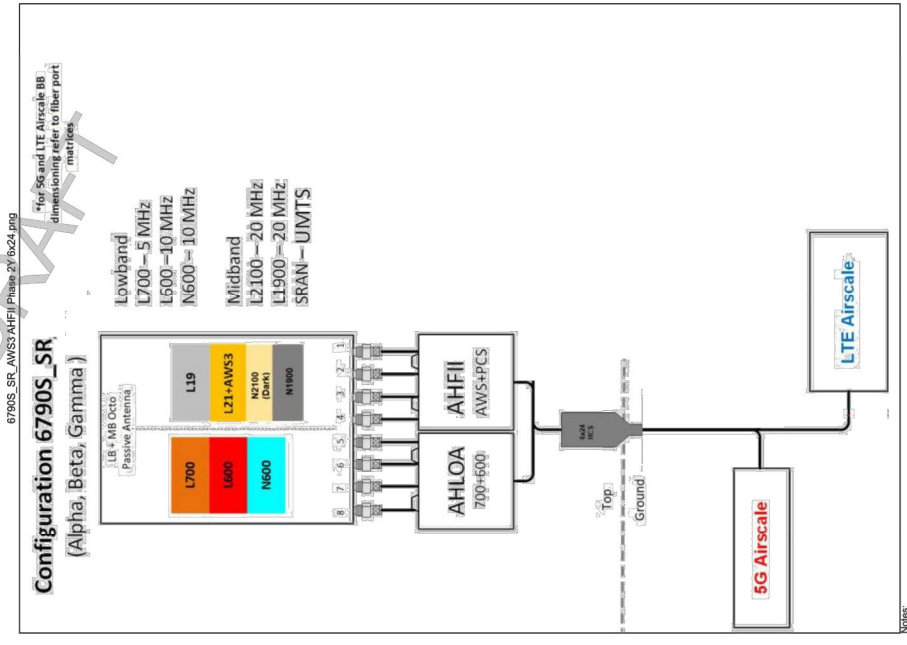
US-CO-5091 / DN02546A


PROJECT INFORMATION:  
HWY 50 & HWY 9  
CANON CITY, CO 81212  
FREMONT COUNTY


**PLUMBING DIAGRAM**

SCALE: NONE


**Table of Contents**  
SHEET NUMBER  
A-5







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CONRAD O. LICHTNER  
 PE 0050900  
 PROFESSIONAL ENGINEER  
 STATE OF COLORADO

2 06/25/24 JURISDICTION COMMENTS  
 1 04/11/24 JURISDICTION COMMENTS  
 0 07/26/24 FINAL CD# ISSUED  
 C 11/28/23 GRADING PLAN ADDED  
 B 09/18/23 CHANGE TOWER HEIGHT  
 A 09/13/23 REDDUES

DATE ISSUED: 06/25/2024  
 PROJECT TITLE: US-CO-5091 / DN02546A

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

T-MOBILE EQUIPMENT AND  
 COAX DETAILS

SCALE:  
 AS NOTED

Table of Contents  
 SHEET NUMBER: A-6T

DATE		DESCRIPTION		DATE		DESCRIPTION	
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE
2	06/25/24	JURISDICTION COMMENTS	1	04/11/24	JURISDICTION COMMENTS	0	07/26/24
C	11/28/23	GRADING PLAN ADDED	B	09/18/23	CHANGE TOWER HEIGHT	A	09/13/23
<p>MINOR PHASE: FINAL</p> <p>DATE ISSUED: 06/25/2024</p> <p>PROJECT TITLE: US-CO-5091 / DN02546A</p> <p>PROJECT INFORMATION:                  HWY 50 &amp; HWY 9                  CANON CITY, CO 81212                  FREMONT COUNTY</p> <p>T-MOBILE EQUIPMENT AND                  COAX DETAILS</p> <p>SCALE:                  AS NOTED</p>							


DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
06/25/24	JURISDICTION COMMENTS	04/11/24	JURISDICTION COMMENTS	07/26/24	FINAL CD# ISSUED	11/28/23	GRADING PLAN ADDED
09/18/23	CHANGE TOWER HEIGHT	09/13/23	REDDUES				


DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
06/25/24	JURISDICTION COMMENTS	04/11/24	JURISDICTION COMMENTS	07/26/24	FINAL CD# ISSUED	11/28/23	GRADING PLAN ADDED
09/18/23	CHANGE TOWER HEIGHT	09/13/23	REDDUES				



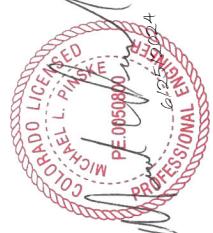








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Colorado State  
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WORK	DATE	DESCRIPTION
PHASE	DATE	ISSUED
FINAL	06/25/2024	

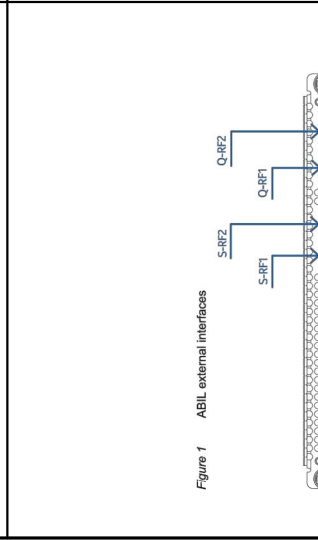
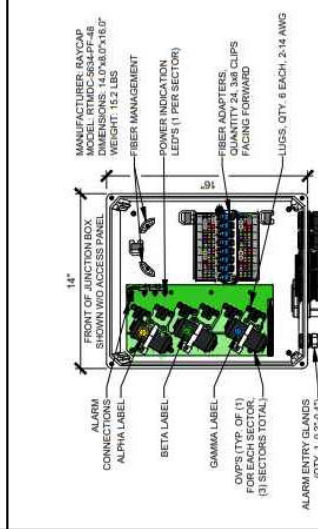
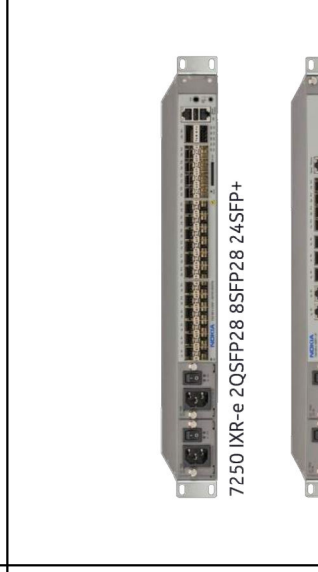
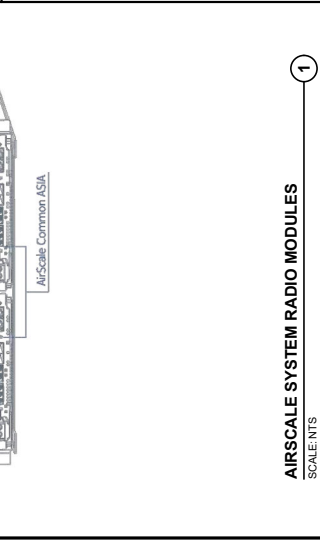
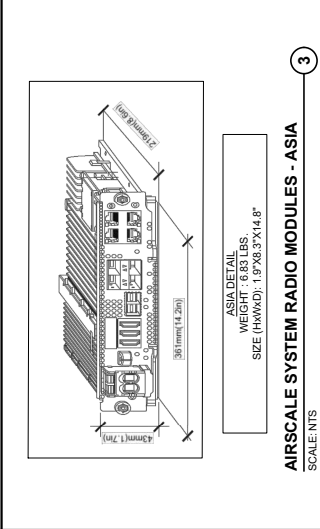
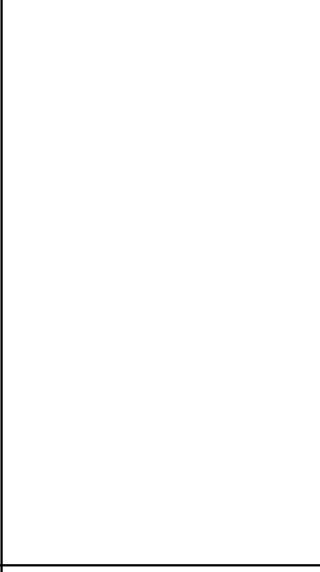
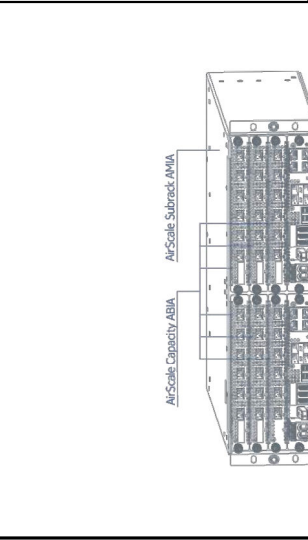
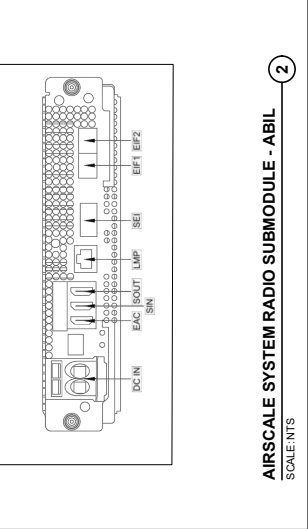
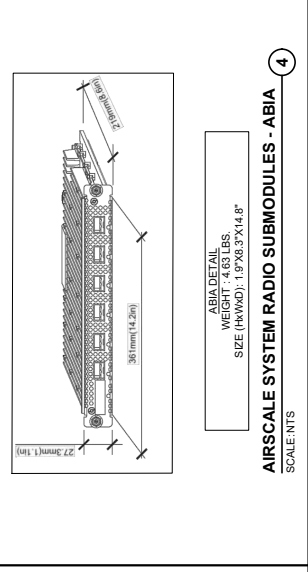
PROJECT TITLE  
**US-CO-5091 / DN02546A**

PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY  
 SHEET TITLE:

AS NOTED

**Table of Contents**

SHEET NUMBER  
**A-9T**



**US-CO-5091 / DN02546A**

PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY  
 SHEET TITLE:

**T-MOBILE EQUIPMENT DETAILS**

SCALE:  
 AS NOTED

**AIRSCALE SYSTEM RADIO MODULES**  
 SCALE: NTS

<b>Mechanical</b>	
<b>Dimensions H x W x D</b>	(44 mm x 454.3 mm x 420.8 mm) (1.7 in. x 17.1 in. x 16.6 in.)
<b>Weight</b>	1.84 kg (4.05 lb) • 3RU height • Flush mount • Offset mount • Center mount
<b>Mounting</b>	
<b>CAN Communication</b>	RJ12 offset



**HYPERBOOST**  
SCALE: NTS

1

<b>Mechanical - Module</b>	
<b>Dimensions H x W x D</b>	41 mm x 104 mm x 333 mm (1.6 in. x 4.1 in. x 13.1 in.)
<b>Weight</b>	1.83 kg (4 lb)
<b>Mechanical - Shelf</b>	
<b>Dimensions H x W x D</b>	(44 mm x 454.3 mm x 420.8 mm) (1.7 in. x 17.1 in. x 16.6 in.)
<b>Weight</b>	7.3 kg (16 lb)
<b>Modules per shelf</b>	4
<b>Mounting</b>	• 1RU height • Flush mount • 6 in. offset center mount
<b>CAN Communication</b>	RJ12 offset

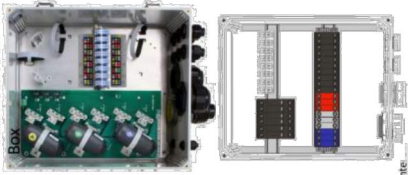


**BOOSTER RECTIFIER**  
SCALE: NTS

2

- Bottom Junction Box and Roof Top Box requires 3 DC-breaker feeds each
- Allows each sector to be energized individually for maintenance without service impact to the other sectors

**Bottom Junction Box**



bitle liter.

**DC POWER FEEDS FROM RECTIFIER DISTRIBUTION**  
SCALE: NTS

3



Professional Engineer under the laws of the State of Colorado.



2	06/25/24	JURISDICTION COMMENTS
1	04/11/24	JURISDICTION COMMENTS
0	07/26/24	FINAL CD# ISSUED
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MARK	DATE	DESCRIPTION
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FINAL	06/25/2024	

US-CO-5091 / DN02546A

PROJECT INFORMATION:  
HWY 50 & HWY 9  
CANON CITY, CO 81212  
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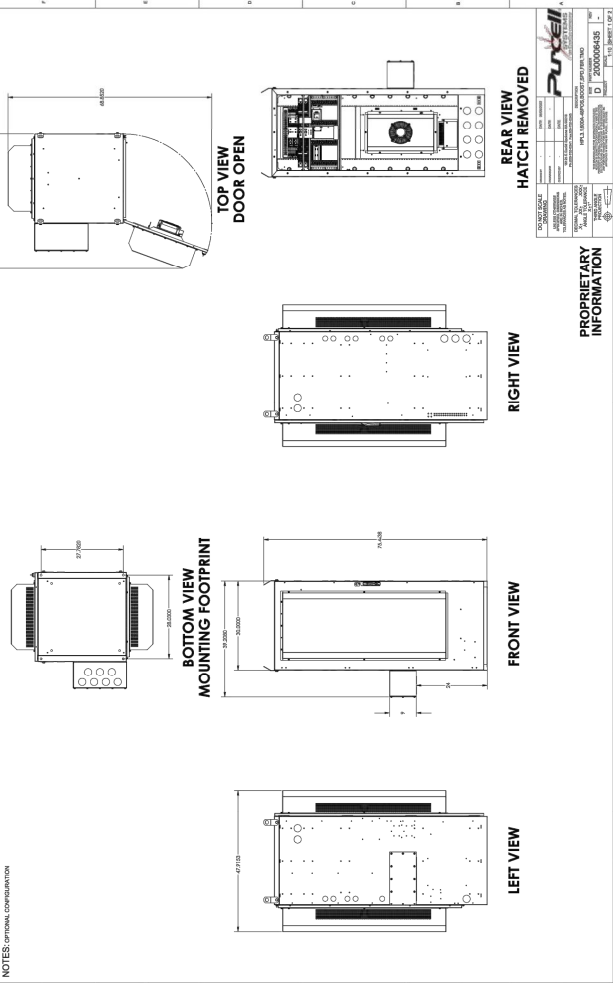
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T-MOBILE EQUIPMENT DETAILS

SCALE:  
AS NOTED

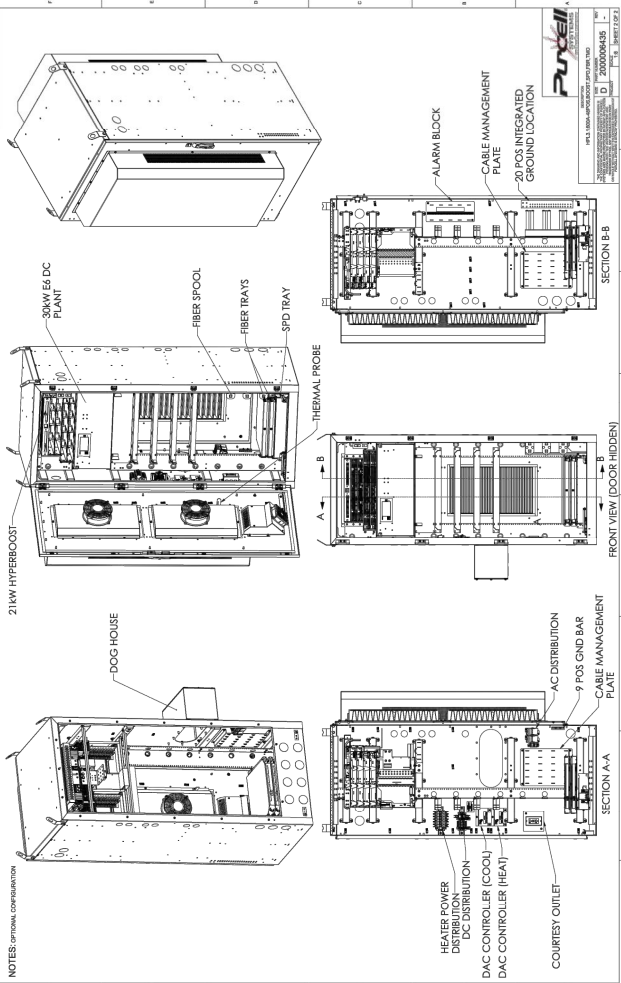
Table of Contents  
SHEET NUMBER  
A-10T

NOTES: OPTIONAL CONFIGURATION

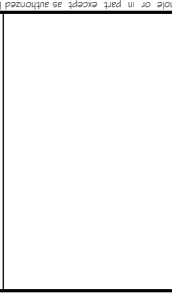


**PROPRIETARY INFORMATION**

Model	HPL 3.1
Part Number	2000009436
Revision	D
Scale	AS SHOWN
Material	304 SS
Finish	Brushed
Weight	480 LBS
Volume	1.5 CU FT
Lead Time	12 Weeks



NOTES: OPTIONAL CONFIGURATION



MARK	DATE	DESCRIPTION	FINAL	DATE ISSUED
2	06/25/2024	JURISDICTION COMMENTS	FINAL	06/25/2024
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 FREMONT COUNTY

**T-MOBILE EQUIPMENT DETAILS**

**SCALE:**  
 AS NOTED

**PURCELL HPL 3.1 POWER CABINET DETAILS**

**SCALE: NTS**

**1**

**AS NOTED**

**Mobile of Components**

**A-11T**

## Purcell HPL3 Large Battery Cabinet

(4) -48V 190Ahr Battery Strings

The Battery Cabinet is designed to house four -48V strings of 190Ahr batteries as part of the HPL3 Site Support Lineup

### Cabinet Features

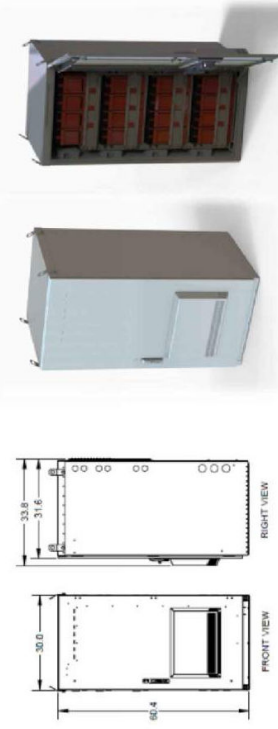
- Polyester powder coated aluminum, GR-487 process control, off white, texture
- Weight: 350 lbs.
- Four battery shelves / four batteries per shelf
- Front door pad lockable with three point latching system
- Left and Right lineup interconnections or remote mounting

### Thermal Management

- Direct Air Cooling (DAC) with two fans
- Ambient operating temperature -40°C to +50°C
- Optional battery heater mats – one mat per shelf

T-Mobile SAP	Purcell PN	Description
33966	2000005434	Battery Cabinet (4 string)

- ### Standards
- UL 508A standards
  - Designed to standard GR-487, Issue 5, hydrogen out gassing, external paint, zone 4 seismic loading, safety, thermal, intrusion and impact



**Purcell**  
 A T-MOBILE SYSTEMS COMPANY  
 16125 East Euclid Avenue ■ Spokane, Washington 99216  
 509.735.0341 ■ www.purcellsystems.com

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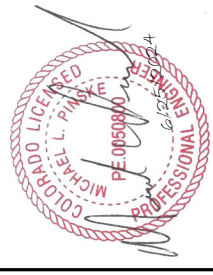
CABINET DETAIL  
 WEIGHT - 350 LBS (WITHOUT EQUIP.)  
 SIZE (HxWxD): 60.4"x30"x33.6"

**PURCELL HPL3.1 BATTERY CABINET DETAILS**  
 SCALE: NTS



emp@ramaker.com  
 (808) 643-4100 www.ramaker.com  
 Construction Solutions

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 FREMONT COUNTY

T-MOBILE EQUIPMENT DETAILS  
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 AS NOTED

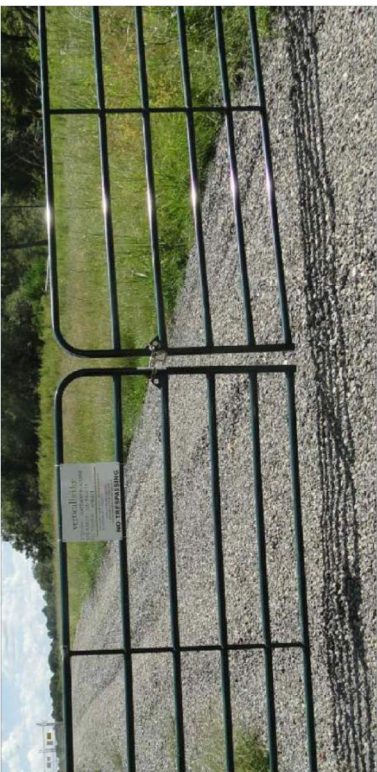
**Table of Contents**  
 SHEET NUMBER  
 A-12T





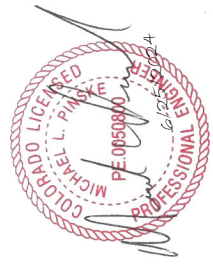
Typical Sign Layout

- Please use galvanized or stainless "hog rings" to install the signs.
- Place the "Vertical Bridge" sign on the Left Gate.
- Place the "Caution" and "Notice" signs on the Right Gate.
- For Access Road Gates, "Vertical Bridge" sign only on the Left Gate.
- Purchase and place Vertical Bridge locks on all fence and access gates. (Set Combo To: 0951)




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A	09/13/23	REDLINES				

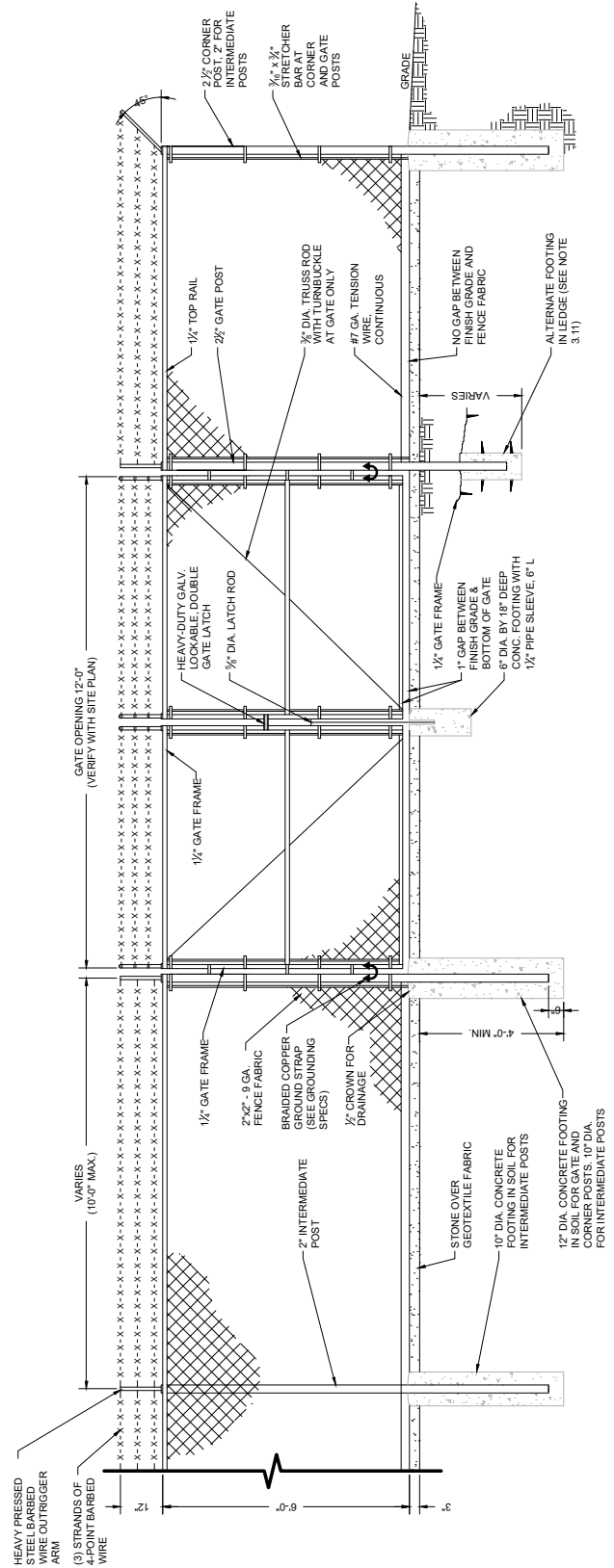
US-CO-5091 / DN02546A

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**SIGNAGE**

SCALE: NONE

**Title of Contents**  
 SHEET  
 A-13



- 1. SCOPE**  
 1.1 THIS SECTION COVERS THE REQUIREMENTS FOR THE MATERIALS AND THE CONSTRUCTION OF SITE FENCING.  
 1.2 GUY AREA FENCING, ACCESS ROAD GATES AND CATTLE GUARDS. SEE SITE PLAN AND DRAWINGS FOR DETAILS.
- 2. SPECIAL REQUIREMENTS:**  
 2.1 ALL WIRE, FABRIC, FITTINGS, HARDWARE AND STEEL MEMBERS USED FOR SITE AREA FENCING, GUY ANCHOR FENCING AND ACCESS ROAD GATES SHALL BE HOT DIPPED GALVANIZED OR OTHER APPROVED.  
 2.2 ALL NON-CORROSIVE MATERIAL SHALL BE APPROVED BY THE PROJECT MANAGER.  
 2.3 ANY DAMAGE TO GALVANIZING OR NON-CORROSIVE COATING DURING CONSTRUCTION SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 3. FENCE POSTS:**  
 3.1 ALL CORNER POSTS SHALL BE DETERMINED FROM STAKES AND PROPERTY LINES INSTALLED BY THE REGISTERED LAND SURVEYOR UNDER CONTRACT IF THE STAKES ARE NOT PRESENT OR DO NOT CONFORM TO THE SITE PLAN. CONSULT WITH THE PROJECT MANAGER.  
 3.2 CORNER POSTS SHALL BE SET WITHIN ONE INCH (1") OF DIMENSIONS INDICATED ON THE SITE PLAN.  
 3.3 FENCE POSTS SHALL BE VERTICALLY PLUMB IN ALL PLANES WITHIN 1/2" INCH.  
 3.4 CORNER & GATE POST FOUNDATIONS SHALL BE A MINIMUM FOUR FEET (4') DEEP OR SIX INCHES (6") BELOW THE BOTTOM OF THE HOLE.  
 3.5 CORNER POSTS AND GATE POSTS SPACING SHALL BE EQUAL WITH A TEN FOOT (10') MAXIMUM SPACING. GATE POST SPACING AND SPECIFIC LOCATIONS SHALL BE IN ACCORDANCE WITH SITE PLAN AND SHALL BE VERIFIED WITH THE PROJECT MANAGER.
- 4. GATE:**  
 4.1 LOCATION OF GATE SHALL CONFORM TO THE SITE PLAN.  
 4.2 GATE HINGES SHALL PROVIDE FOR 180 DEGREE RADIUS GATE SWING. ALL HINGE NUTS SHALL BE ON THE INSIDE AND DOUBLE-NUT TO DETER UNAUTHORIZED ENTRY.  
 4.3 GATE STOPS SHALL BE INSTALLED AND SHALL HOLD GATE IN "OPEN" POSITION.  
 4.4 GATE SHALL BE INSULATED PLUMB AND SHALL OPEN AND CLOSE FREELY.  
 4.5 GATE POSTS SHALL NOT BE SHARED AS A CORNER POST.

**FENCE AND GATE DETAIL**  
 SCALE: NTS

1



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NO.	DATE	DESCRIPTION	ISSUED
2	06/25/24	JURISDICTION COMMENTS	FINAL
1	04/11/24	JURISDICTION COMMENTS	FINAL
0	07/26/24	FINAL CD# ISSUED	
C	11/28/23	GRAVING PLAN ADDED	
B	08/18/23	CHANGE TOWER HEIGHT	
A	08/13/23	REDLINES	

PROJECT TITLE: US-CO-5091 / DN02546A  
 PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

COMPOUND SITE DETAILS  
 SCALE: AS NOTED

Table of Contents  
 SHEET A-14



US-CO-5091 / DN02546A

emp@ramaker.com  
 (808) 643-4100 www.ramaker.com

Continuation Sheet  
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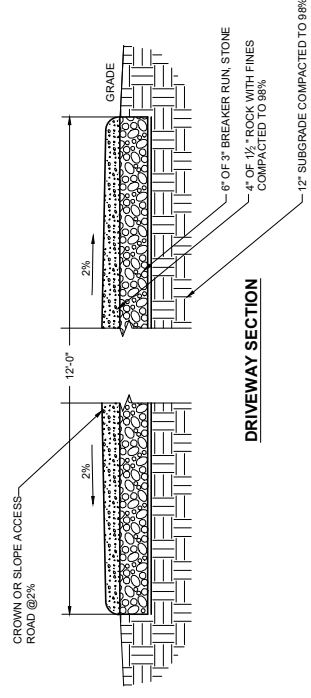


MARK	DATE	DESCRIPTION	FINAL	PROJECT TITLE
2	06/25/24	JURISDICTION COMMENTS		
1	04/11/24	JURISDICTION COMMENTS		
0	07/26/24	FINAL CD# ISSUED		
C	11/28/23	GRADING PLAN ADDED		
B	09/18/23	CHANGE TOWER HEIGHT		
A	08/13/23	REDLINES		

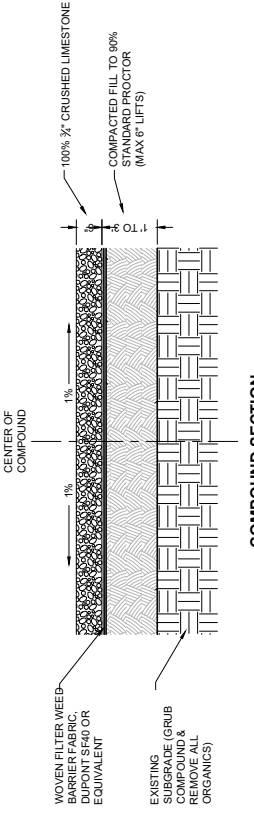
PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**COMPOUND SITE DETAILS**  
 SCALE:  
 AS NOTED

Table of Contents
A-15



**TYPICAL GRAVEL DRIVEWAY**  
 SCALE: NTS

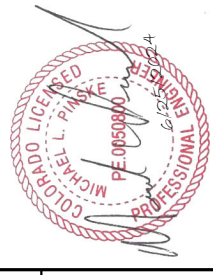


**NOTES:**  
 THE FABRIC SHOULD BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INTERSECTIONS OF SHEETS MUST BE SEWN OR SUFFICIENTLY OVERLAPPED (AT LEAST 24 INCHES OR AS SPECIFIED BY THE MANUFACTURER). THE GEOTEXTILE SHEETS SHOULD ALSO BE PLACED TAUT TO REDUCE WRINKLES OR FOLDS. CARE MUST BE EXERCISED TO PREVENT PHYSICAL DAMAGE OR TENSILE STRESS TO THE GEOTEXTILE PRIOR TO, DURING AND AFTER INSTALLATION. UTILITIES SHOULD BE INSTALLED BEFORE PLACING THE FABRIC.

**TYPICAL COMPOUND GRAVEL**  
 SCALE: NTS



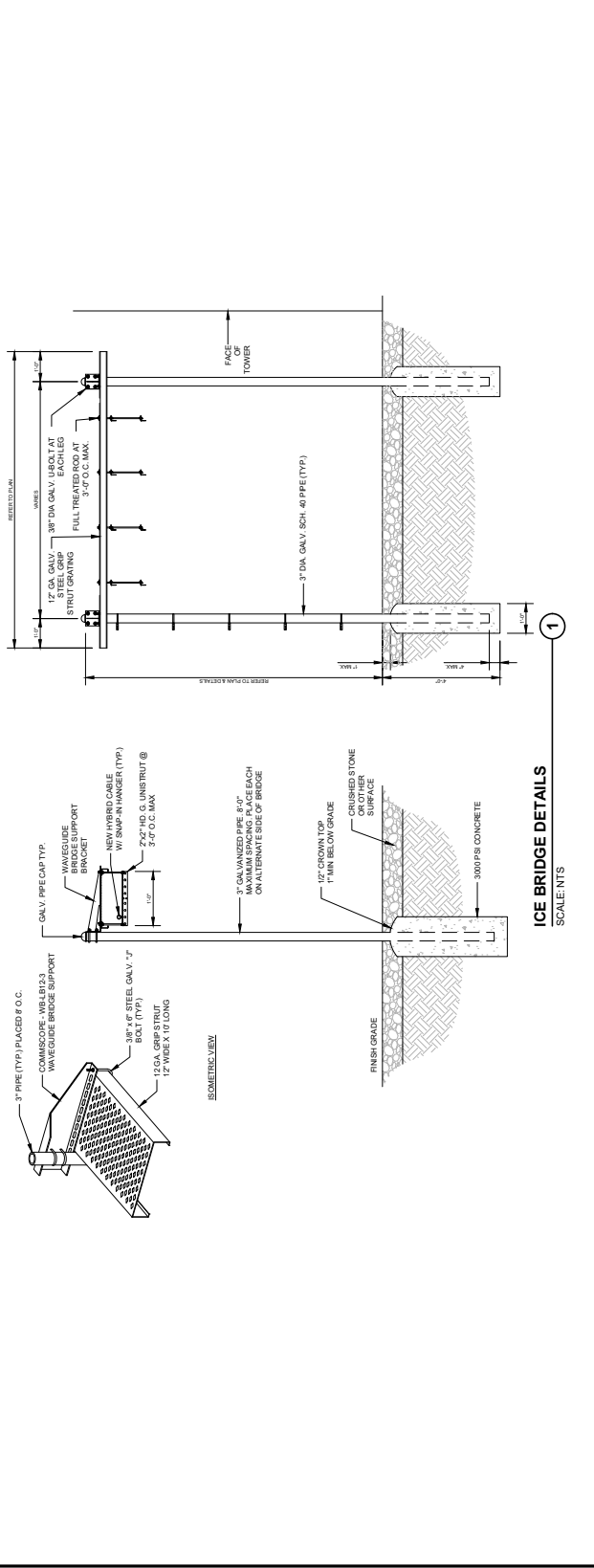
emp@ramaker.com  
 (608) 643-4100 www.ramaker.com  
 Certification 5340  
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NO.	DATE	DESCRIPTION	BY	ISSUED
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B	09/18/23	CHANGE TOWER HEIGHT		
A	08/13/23	REDLINES		
WORK PHASE	DATE	DESCRIPTION	BY	ISSUED
FINAL	06/25/2024			

PROJECT TITLE  
 US-CO-5091 / DN02546A  
 PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY  
 SHEET TITLE:

STRUCTURAL DETAILS  
 SCALE:  
 AS NOTED  
 Table of Contents  
 SHEET NUMBER  
 S-11



**IC-0810-S**

Ice Canopy 8 ft x 10 ft, four 10 ft x 6 in base shoe pipes

<b>Product Classification</b>	
Product Type	Ice canopies and sheds
General Specifications	
Pipe Quantity	4
Dimensions	
Height	3,000 mm   120 in
Length	3,000 mm   120 in
Pipe Length	3,000 mm   120 in

**IC-1010-S**

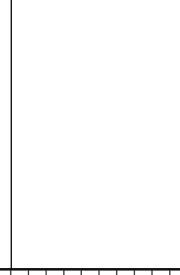
Ice Canopy 10 ft x 10 ft, four 10 ft x 6 in base shoe pipes

<b>Product Classification</b>	
Product Type	Ice canopies and sheds
General Specifications	
Pipe Quantity	4
Dimensions	
Height	3,000 mm   120 in
Length	3,000 mm   120 in
Pipe Length	3,000 mm   120 in

**ICE CANOPY DETAILS**  
 SCALE: NTS.

**ICE CANOPY DETAILS**  
 SCALE: NTS.





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2	06/25/24	JURISDICTION COMMENTS
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A	08/13/23	REDLINES
DATE	DESCRIPTION	DATE
ISSUE	ISSUED	06/25/2024

PROJECT TITLE  
**US-CO-5091 / DN02546A**

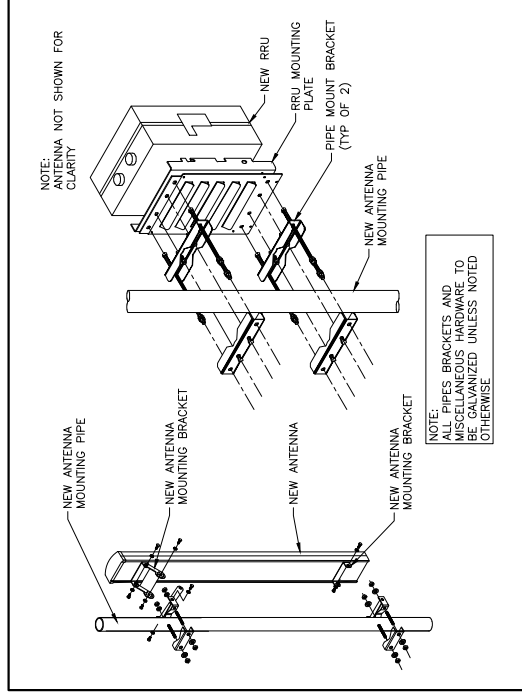
PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE  
**T-MOBILE ANTENNA SECTOR FRAME DETAILS**

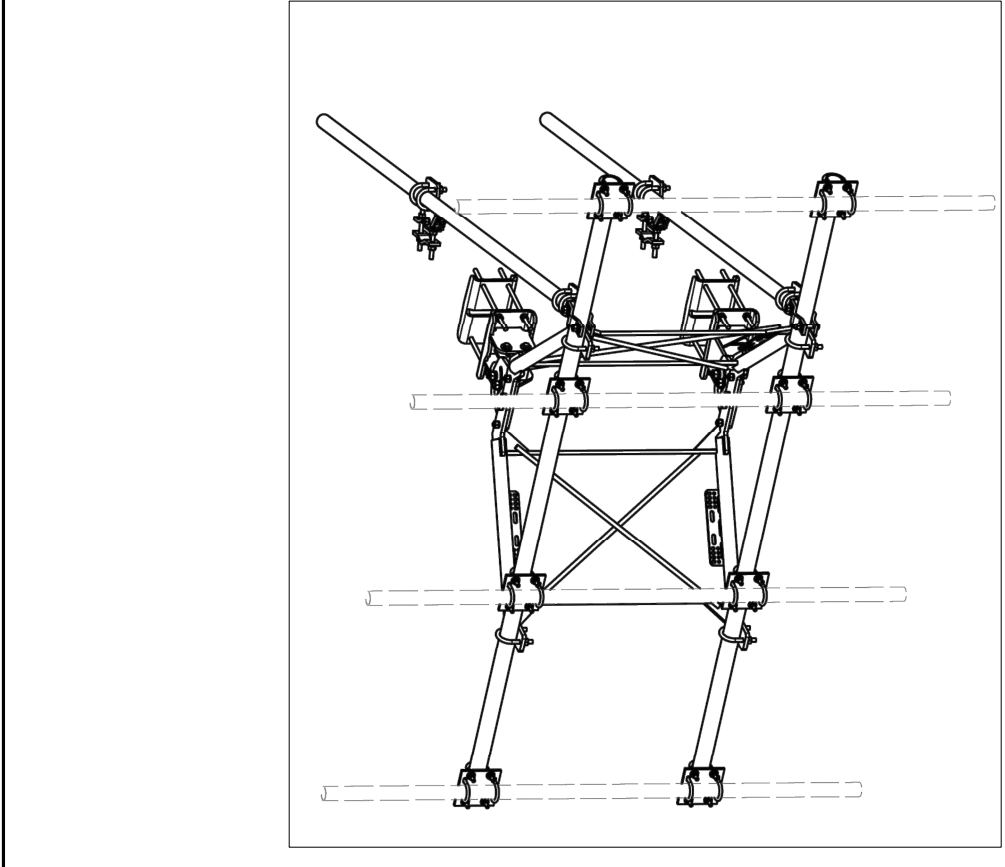
SCALE:  
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**Table of Contents**  
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**S-21**

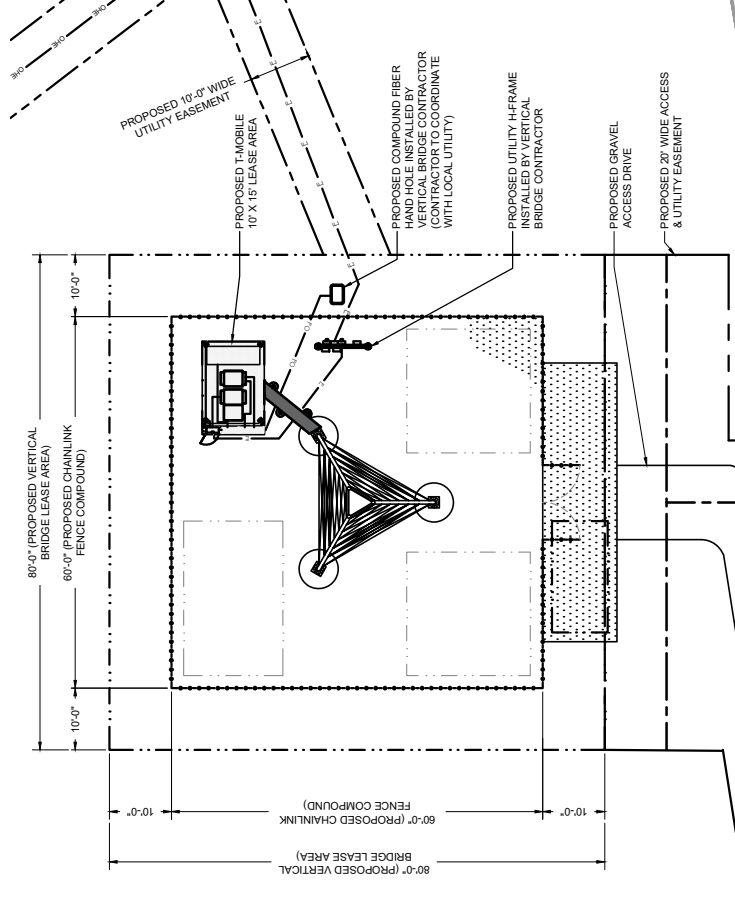
ITEM	QTY	PART NO.	PART DESCRIPTION	PARTS LIST	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM			71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD			33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT			36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE		12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE		13 in	19.00	38.01
6	1	X-HDCAM6SS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD			16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE		5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD			2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		7 in	2.01	8.02
10	8	SCX2	CROSSOVER PLATE		7 in	4.50	36.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG		12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CENTER TO CENTER CLAMP HALF		8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE		126 in	40.75	81.50
14	2	P30126	2-7/8" O.D. X 126" SCH. 40 PIPE		126 in	64.63	129.25
15	4	A34212	3/4" X 2-1/2" UNC HEX BOLT (A325)		2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER			0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER			0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT			0.21	0.85
19	8	G58R-18	5/8" X 18" THREADED ROD (HDG.)		18 in	0.40	3.19
20	4	G58R-12	5/8" X 12" THREADED ROD (HDG.)			1.05	4.18
21	4	G58R-8	5/8" X 8" THREADED ROD (HDG.)			0.70	2.79
22	4	X-LB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)			1.15	4.60
23	8	X-LB5288	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)			1.00	8.00
24	2	G5807	5/8" X 7" HDG HEX BOLT GR5 FULL THREAD		7 in	0.70	1.41
25	1	G5806	5/8" X 6" HDG HEX BOLT GR5 FULL THREAD		6 in	0.62	0.62
26	8	G5804	5/8" X 4" HDG HEX BOLT GR5			0.44	3.55
27	4	G5802	5/8" X 2" HDG HEX BOLT GR5			0.27	1.08
28	8	A82114	5/8" X 2-1/4" HDG A325 HEX BOLT		2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER		1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER			0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT			0.13	9.22
32	32	X-LB1300	1/2" X 3" X 5" X 2" GALV U-BOLT			0.74	23.64
33	16	X-LB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		3/32 in	0.60	9.56
34	64	G12LW	1/2" HDG USS FLATWASHER			0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER		1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT			0.07	4.58
						<b>TOTAL WT. #</b>	<b>713.44</b>



**TYPICAL ANTENNA AND RRU MOUNTING DETAIL**  
 SCALE: NTS



**10' VFA10-HD SECTOR FRAME OR EQUIVALENT**  
 SCALE: NTS

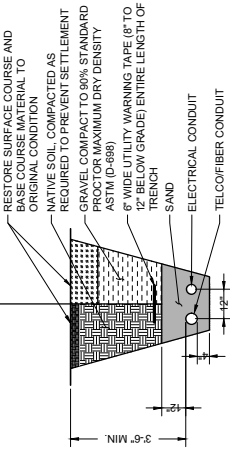


**NOTE:**  
 UTILITY/GROUNDING LINES ARE SHOWN FOR SCHEMATIC PURPOSES ONLY & DO NOT REPRESENT EXISTING SERVICE LOCATIONS. NOTIFY CONSTRUCTION PROJECT MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

LEGEND:	
---	PROPOSED ELECTRIC
---	PROPOSED TELCO
---	PROPOSED FIBER

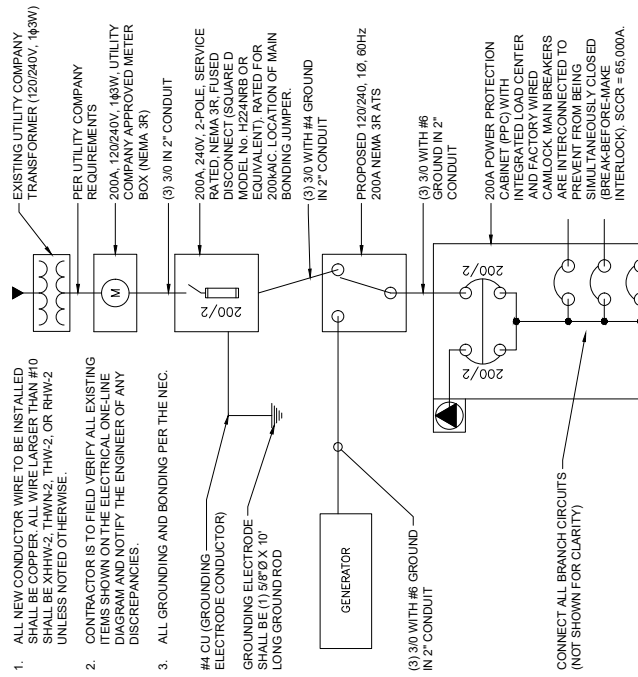
**OVERALL UTILITY SITE PLAN**  
 SCALE: 1" = 20'

SECTION FOR USE UNDER GRASS OR PAVED AREAS



**NOTES:**  
 1. CONTRACTOR TO VERIFY LOCAL UTILITY REQUIREMENTS FOR DEPTH, SIZE, & SEPARATION OF CONDUITS PRIOR TO INSTALLATION. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.  
 2. CONTRACTOR TO CALL DIGGERS HOTLINE (1-800-242-8511) 48 HOURS PRIOR TO EXCAVATING FOR UNDERGROUND UTILITY LOCATIONS. LOCATION OF ALL UNIDENTIFIED UTILITIES MUST BE PRIVATELY LOCATED FOR NON-PUBLIC UTILITIES.

**TYPICAL UTILITY TRENCH DETAIL**  
 SCALE: NTS



- ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER. ALL WIRE LARGER THAN #10 SHALL BE XHHW-2, THWN-2, THW-2, OR RHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL GROUNDING AND BONDING PER THE NEC.

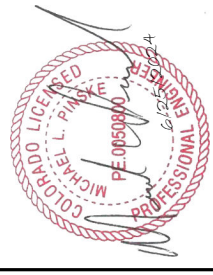
#4 CU (GROUNDING ELECTRODE CONDUCTOR) GROUNDING ELECTRODE SHALL BE (1) 5/8" X 10' LONG GROUND ROD

**NOTE:**  
 PENDING FINAL ELECTRICAL DESIGN BY OTHERS

**ONE-LINE DIAGRAM**  
 SCALE: NTS



Professional Engineer under the laws of the State of Colorado  
 PE 0050900  
 MICHAEL L. PINSKY  
 PROFESSIONAL ENGINEER  
 06/25/2024

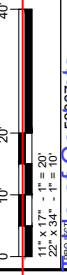


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C	11/28/23	GRAVING PLAN ADDED
B	09/18/23	CHANGE TOWER HEIGHT
A	09/13/23	REDLINES

PROJECT TITLE: US-CO-5091 / DN02546A  
 DATE ISSUED: 06/25/2024


PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY


SHEET TITLE: OVERALL UTILITY SITE PLAN



Scale of Components  
 SHEET E-1

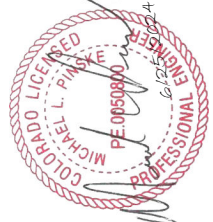






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Contractor's Seal  
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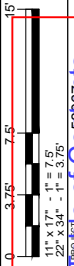
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MARK	DATE	DESCRIPTION	DATE	FINAL
PHASE			ISSUED	
			06/25/2024	

PROJECT TITLE  
**US-CO-5091 / DN02546A**

PROJECT INFORMATION  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE  
**T-MOBILE UTILITY PLAN**



11" x 17" - 1" = 7.5'  
 22" x 34" - 1" = 8.75'

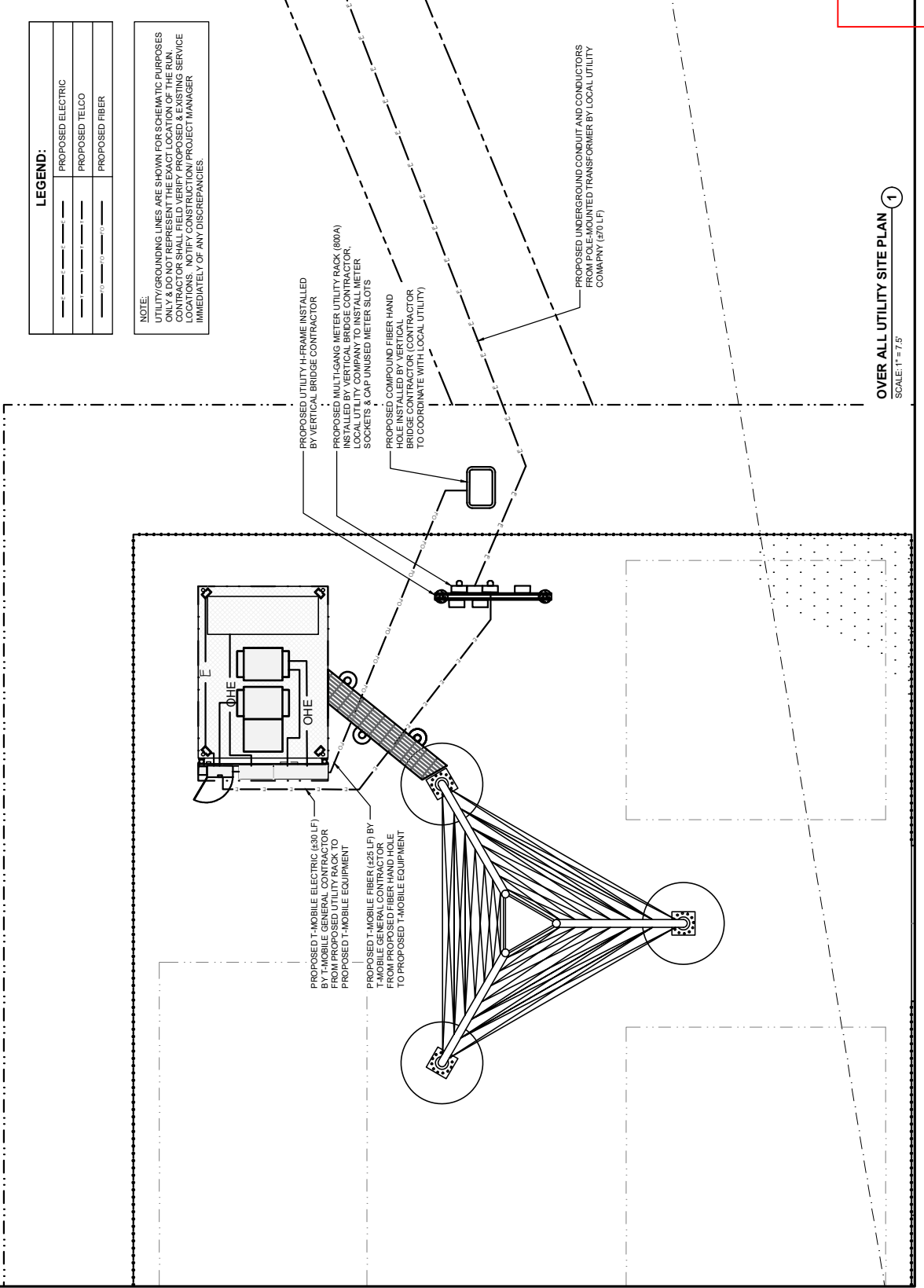
**Table of Contents**  
 SHEET NUMBER  
**E-3T**



**LEGEND:**


—●—●—●—●—	PROPOSED ELECTRIC
—○—○—○—○—	PROPOSED TELCO
—□—□—□—□—	PROPOSED FIBER


**NOTE:**  
 UTILITY/GROUNDING LINES ARE SHOWN FOR SCHEMATIC PURPOSES ONLY & DO NOT REPRESENT THE EXACT LOCATION OF THE RUN. CONTRACTOR SHALL VERIFY EXISTING SERVICE LOCATIONS, NOTIFY CONSTRUCTION PROJECT MANAGER IMMEDIATELY OF ANY DISCREPANCIES.



**OVER ALL UTILITY SITE PLAN** ①  
 SCALE: 1" = 7.5'








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PROJECT TITLE:  
**US-CO-5091 / DN02546A**

PROJECT INFORMATION:  
 HWY 50 & HWY 9  
 CANON CITY, CO 81212  
 FREMONT COUNTY

SHEET TITLE:  
**T-MOBILE EQUIPMENT UTILITY PLAN**

GRAPHIC SCALE:  
 1" = 11' 17" - 1/2" = 1'  
 2" = 34' - 1" = 1'

1" = 11' 17" - 1/2" = 1'  
 2" = 34' - 1" = 1'

**Table of Contents**  
 E-41

