PROJECT DATA

SITE NAME: ADDRESS:

11820 HAHN ROAD CALHAN, CO 80808

CSP-CALHAN

JURISDICTION: EL PASO

VERIZON PROJECT #: 20171625605

PROJ. SUMMARY: SITE IMPROVEMENTS FOR A WIRELESS FACILITY FOR VERIZON WIRELESS, KNOWN AS "CSP-CALHAN". ALL WORK INCLUDES INSTALLING (NEW) UHF MONOPOLE ANTENNA AND RUNNING ALL REQUIRED POWER AND SIGNAL CABLE FROM THE EQUIPMENT SHELTER TO THE ANTENNA.

CODE/LOCATION INFORMATION:

CONSTRUCTION TYPE: OCCUPANCY: **EQUIPMENT SHELTER HEIGHT:** (E) TOWER & ANTENNA HEIGHT: NEW ANTENNA HEIGHT: NO. STORIES: **GROSS BUILDING AREA:** OCCUPANT LOAD: BUILDING CODE:

V-B **B-UNMANNED** 10'-6" A.G.L. 100'-0" A.G.L. 100'-0" A.G.L. ONE (1) 438 S.F. 2 / UNMANNED 2009 IBC

PROJECT CONTACTS

ARCHITECT: T-REX ARCHITEX 146 MADISON ST. SUITE 200 **DENVER, CO 80206**

DONI MITCHELL 303-388-2918

VERIZON WIRELESS CONSTRUCTION MANAGER: 3131 SOUTH VAUGHN WAY AURORA, CO 80014

MIKE HICKEY 951-413-9704

OWNER: CORLIS REALITY 5225 SILVER DR. COLORADO SPRINGS, C0 80918 CLETE CORLIS 719-599-9000

ZONING:

RETHERFORD ENTERPRISES, INC. 7093 SILVERHORN DRIVE EVERGREEN, CO 80439

JOY RETHERFORD 720-261-2064

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS RELATED TO THIS WORK PRIOR TO COMMENCING CONSTRUCTION AND VISIT THE SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL CONDITIONS. THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK.

2. THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN, DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE.

3. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES OF ALL GOVERNING JURISDICTIONS. CONTRACTOR SHALL POST ALL NOTICES, SECURE ALL PERMITS, AND COMPLY WITH ALL LAWS, RULES, REGULATIONS AND LAWFUL ORDERS BEARING ON THE PERFORMANCE OF THE WORK.

4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION AND SHALL SUPERVISE AND DIRECT THE PROJECT ACCORDINGLY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

5. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION, PATCH AND REPAIR ALL DAMAGED ITEMS. RESTORE EACH DISTURBED AREA TO PRE-CONSTRUCTION CONDITION.

6. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED AND REQUIRE REFERENCE TO THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES, AND / OR SUPPLIERS PRIOR TO COMMENCING CONSTRUCTION TO INSURE THAT ALL PARTIES ARE AWARE OF OVERLAPPING REQUIREMENTS.

7. ALL INTERRUPTED SYSTEMS SHALL BE COORDINATED WITH APPROPRIATE AUTHORITIES AND RESTORED TO ORIGINAL CONDITION AND OPERATION.

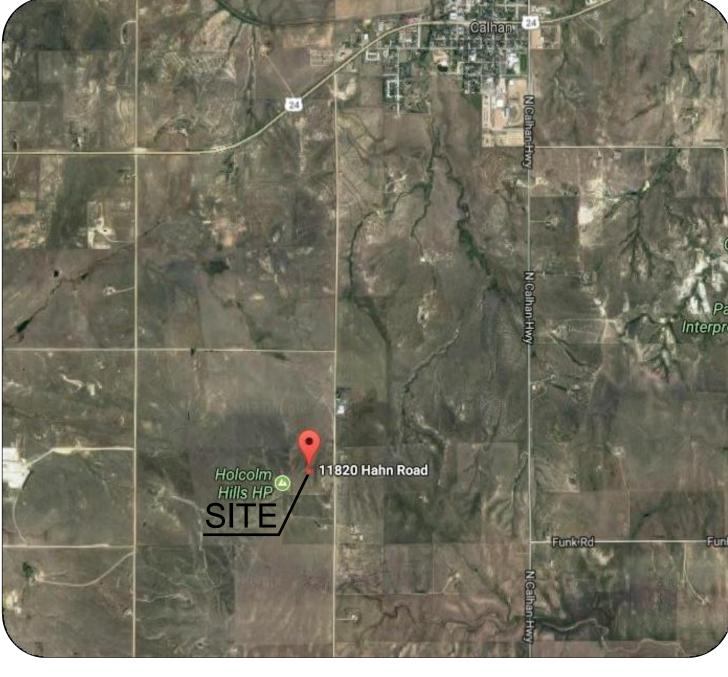
8. ALL DEMOLISHED ITEMS ARE TO BE REMOVED COMPLETELY FROM THE SITE.

9. CALL 3-DAYS BEFORE YOU DIG ! NOTIFICATION HOTLINE: 1-800-922-1977 or 811

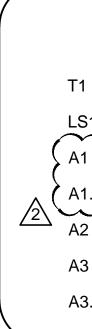
	PROPERTY LINE SETBACK OR		HYBRID / COAX	
				X SECTION INDIC.
— W —	WATER LINE		DC POWER	
— G —	GAS LINE	Ø	POWER POLE	$\begin{pmatrix} X \\ X \end{pmatrix}$ ELEVATION IND
—— E ——	ELECTRICAL	Ø	BENCHMARK	
— т —	TELCO	2	DOOR TAG	
— x —	FENCE	$\langle \mathbf{X} \rangle$	WINDOW TAG	\bigcirc
		X	WALL TYPE	0 2' 4' 8' 16'
				GR

CSP-CALHAN SITE MODIFICATION REQUEST **SMR-2WAY**

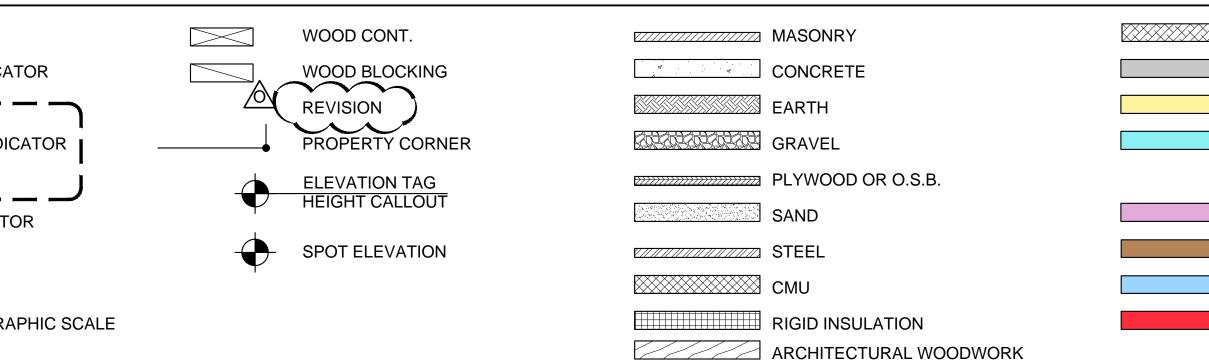




VICINITY MAP SCALE: NTS



SYMBOL & MATERIAL LEGEND



SCOPE OF WORK Emergency Two-Way Radio Installation

TO BE PERFORMED BY VERIZON WIRELESS preferred Contractor (VZW)

OUTDOOR WORK

1. VzW to attach WS300 stand-off bracket at approved UHF antenna mounting location 3. VzW to attach UHF monopole antenna to stand-off bracket; Antenna and Mount will be supplied by VzW to supply proper length of 7/8" foam coaxial cable (LCF78 or equivalent), terminated with N-type Male connectors at each end. with appropriate ground kits correct

- 4. VzW to attach RDR-supplied RF jumper from UHF monopole antenna to VzW-supplied hardline 5. VzW to supply appropriate tower hangers for the foam coaxial cable and attach to tower per VzW
- practices 6. VzW to run hardline to shelter location
- 7. VzW to apply water-proofing materials (butyl rubber tape, covered with 2" vinyl tape, or equivalent) to all
- outdoor coaxial connections PPC Connectors are acceptable.

8. VzW to ground hardline at bulkhead ground bar 9. VzW to bring hardline into shelter and terminate on VzW-supplied ground bar at shelter bulkhead

INDOOR WORK

1. VzW to install lightning arrestor at shelter bulkhead ground bar. standard arrestor should work with n-connectors

3. VzW to run length of 1/2" Superflex (or equivalent) cable from bulkhead arrestor to top of RDR rack, terminated with N-type Female connector Is LDF4 acceptable

4. VzW to supply 24vdc or -48vdc with XX amp breaker fromt eh PDF to the radio rack power distribution panel. VzW to bolt/anchor RDR rack to floor

5. VzW to bond RDR rack to building ground system

6. VzW to sweep coax run from top of rack location to antenna point and determine and annotate total cables losses. This can be done by VzW Cell Tech

7. VzW to identify and label dedicated IP port at switch location and provide IP address/subnet mask/gateway (Field Operations will do this)

TO BE PERFORMED BY RED DOG RADIOS (RDR)

OUTDOOR WORK

1. RDR to supply WS300 stand-off bracket and UHF monopole antenna

2. RDR to supply RF jumper 3. RDR to provide ground assistance with ropes, tool bucket, any items needed to assist tower personnel

INDOOR WORK

1. RDR to inspect and accept DC wiring installed and available at top of rack 2. RDR to inspect and accept 1/2" Superflex cable installed and available at top of rack, terminated with N-type Female

3. RDR to inspect and accept that rack is anchored to floor and bonded to ground system

- 4. RDR to supply all connections from rack to AC power source and 1/2" Superflex cable
- 5. RDR to supply and physically install AGM lead acid batteries, including making fused connections to power supply

6. RDR to activate repeater system

7. RDR to set power level to set system output to 150W ERP, taking calculated coaxial losses into account, and record true power level in watts at 1/2" Superflex rack interface connector

8. RDR to measure and record repeater sensitivity as referenced to 12 dB SINAD at 1/2" Superflex rack interface connector

9. RDR to run CAT5E cable from equipment to switch port location, including properly terminating necessary RJ45 connectors

10.RDR to ensure all cables on rack are run smoothly, cleanly and in accordance with VzW best

practices, including bundling with approved waxed lacing cord techniques 11.RDR to photograph and supply digital images of repeater rack and installation details to VzW personnel for record-keeping purposes

INDEX OF DRAWINGS: (7 SHEETS)

Г1	TITLE SHEET	
S1	SURVEY	

L91	SURVET
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A1	SITE PLAN
A1.1	ELEVATION)
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A2	SHELTER PLANS / CABLE LENGTHS
A3	ANTENNA DETAILS
A3.1	SITE PHOTOS AND POWER SYSTEM DETAILS

CHAIN LINK FENCE
EXISTING EASEMENT
NEW UTILITY EASEMENT
NEW ACCESS / UTILITY EASEMENT
LEASE AREA
NEW ANTENNAS
NEW RRHS / OVPS
NEW PENETRATIONS

BBU	BASE BAND UNIT
OVP	OVER-VOLTAGE PROTECTION
PDF	POWER DISTRIBUTION FRAME
RRH	REMOTE RADIO HEAD
C.V.	CONTRACTOR VERIFY
±	PLUS OR MINUS
ፍ	CENTER-LINE
ዊ	PLATE

projects, for additions to this Project of of this Project by others provided the default under this Agreement, excep writing and with appropriate compensat	e Architect is not in ot by agreement in
PROJECT FOR	
	4-3234
	303-694-3234
Ň	JITE 550
	AY, SUITE

ĸRE

Denver, CO 80206

303.388.2918

Drawings and Specifications as instruments of service are and shall remain the property of the Architect whether the

Project for which they are made is executed or not. The Owner shall be permitted to retain copies, including reproducible copies, of Drawings and Specifications for

information and reference in connection with the Owner's use and occupancy of the Project. The Drawings and Spe-cifications shall not be used by the Owner on other

rojects, for additions to this Project or for the completion

DRAWINGS

STAMP

DATE ISSUED

ΜΑΥ	′ 31,	2018

DATE	ISSUED AS		
	ZD APPROVAL		
	PRELIMINARY CD SET		
	FINAL CD SET		
	PERMIT SUBMITTED		
DATE	REVISIONS		
1/22/17	A ANTENNA HEIGHT		
2/18/17	FINAL CD SET		
2/18/17			
5/31/18	2 ZONING REVISION		

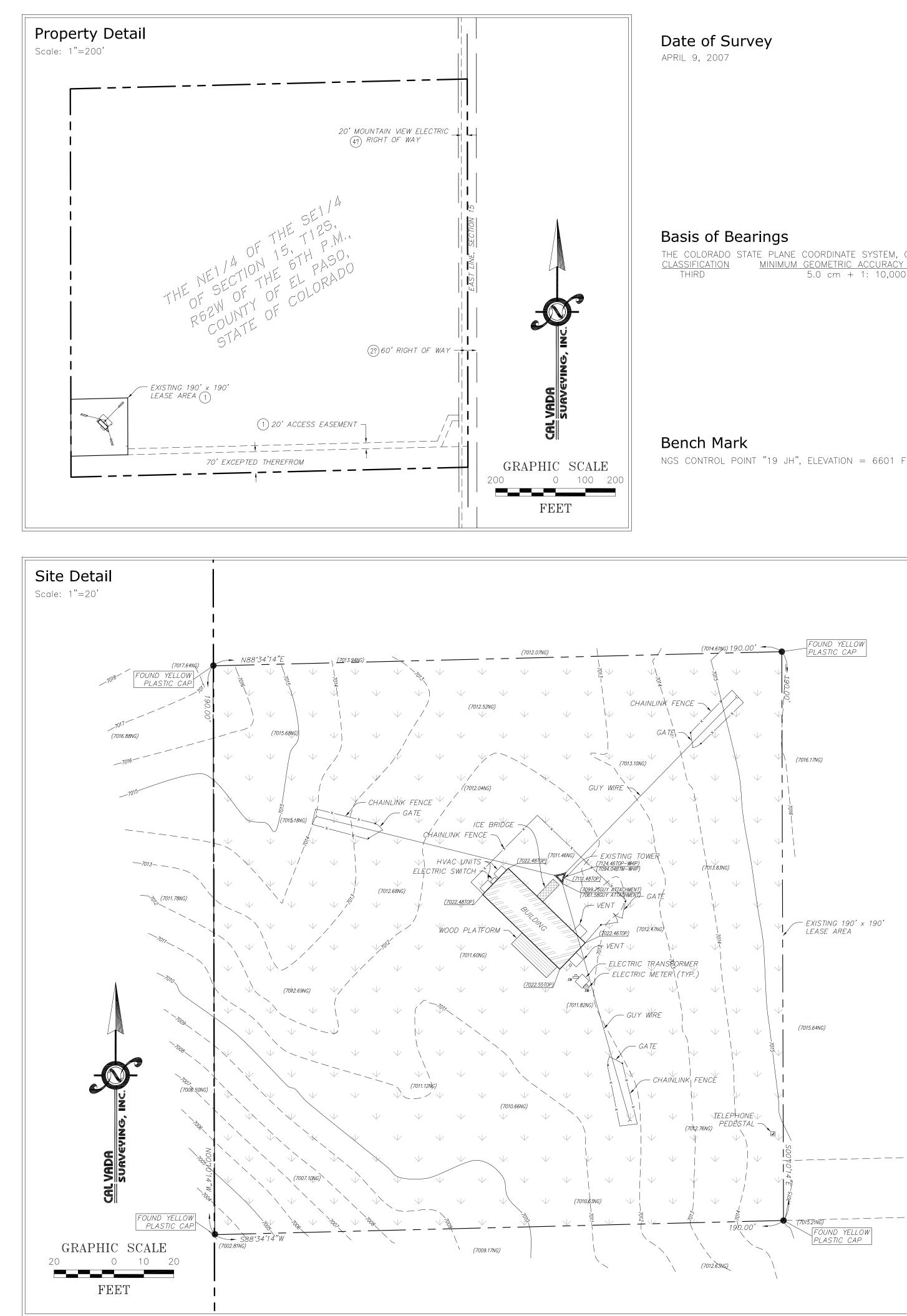
PROJECT NAME

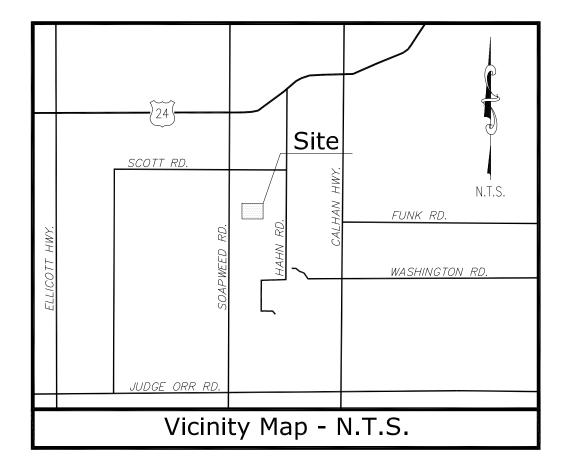
CSP-CALHAN

CELL SITE SMR-2WAY

11820 HAHN ROAD CALHAN, CO 80808

COUNTY OF EL PASO STATE OF COLORADO





THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD83). <u>CLASSIFICATION</u> <u>MINIMUM GEOMETRIC ACCURACY STANDARD</u> THIRD 5.0 cm + 1: 10,000

NGS CONTROL POINT "19 JH", ELEVATION = 6601 FEET (NAVD 88)

Title Report

PREPARED BY: CANDLAND TITLE RESEARCH, LLC ORDER NO.: 3004 DATED: JANUARY 7, 2010

Legal Description

THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 15, TOWNSHIP 12 SOUTH, RANGE 62 WEST OF THE 6TH P.M., COUNTY OF EL PASO, STATE OF COLORADO, EXCEPT FOR THE SOUTH 70 FEET OF SAID PROPERTY.

Assessor's Parcel No.

2200000253

Easements

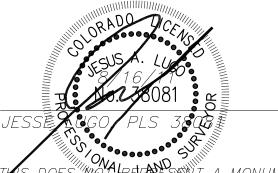
- 1 ALL MATTERS AS SET FORTH IN "EASEMENT" RECORED AS BOOK 5819, PAGE 498.TERMS, CONDITIONS AND PROVISIONS OF GRANT OF EASEMENT RECORDED MARCH 11, 1991 IN BOOK 5819 AT PAGE 494. NOTICE OF EXERCISE OF OPTION IN CONNECTION THEREWITH RECORDED MARCH 11, 1991 IN BOOK 5819 AT PAGE 498. (PLOTTED HEREON)
- RIGHT OF WAY EASEMENT GRANTED TO MOUNTAIN VIEW ELECTRIC ASSOCIATION IN INSTRUMENT RECORDED JULY 12, 1994, IN BOOK 6486 AT PAGE 627. **(NOT PLOTTABLE)** 3
- TAXES FOR 2009 ARE DUE AND PAYABLE. (AFFECTS SUBJECT PROPERTY BUT IS NOT A PLOTTABLE ITEM)

Legend

a dea a d	CONCRETE PAVEMENT	NG	NATURAL GROUND
MA	CONIFEROUS TREE	٥	PARKING BOLLARD
ø	DIAMFTER	POB	POINT OF BEGINNING
M		POC	POINT OF COMMENCEMEN
	DECIDUOUS TREE	OHE	OVERHEAD ELECTRIC LINE
	EDGE OF ASPHALT		POWER POLE
FF	FINISHED FLOOR		PROPERTY LINE
FS	FINISH SURFACE	R.O.W.	RIGHT OF WAY
₽09 FH	FIRE HYDRANT	SS	SEWER MANHOLE
FL	FLOW LINE	-0-	SIGN POST
٢	FOUND MONUMENT AS NOTED	• *	STREET LIGHT STANDARD
\blacklozenge	FOUND SECTION MONUMENT	ð	TELEPHONE PEDESTAL
\bullet	GEOGRAPHIC LOCATION	TYP	TYPICAL
E. GM	GAS METER	⊞ _m	WATER METER
0	IRRIGATION CONTROL VALVE	⊗ _w	WATER VALVE

Certificate of Survey

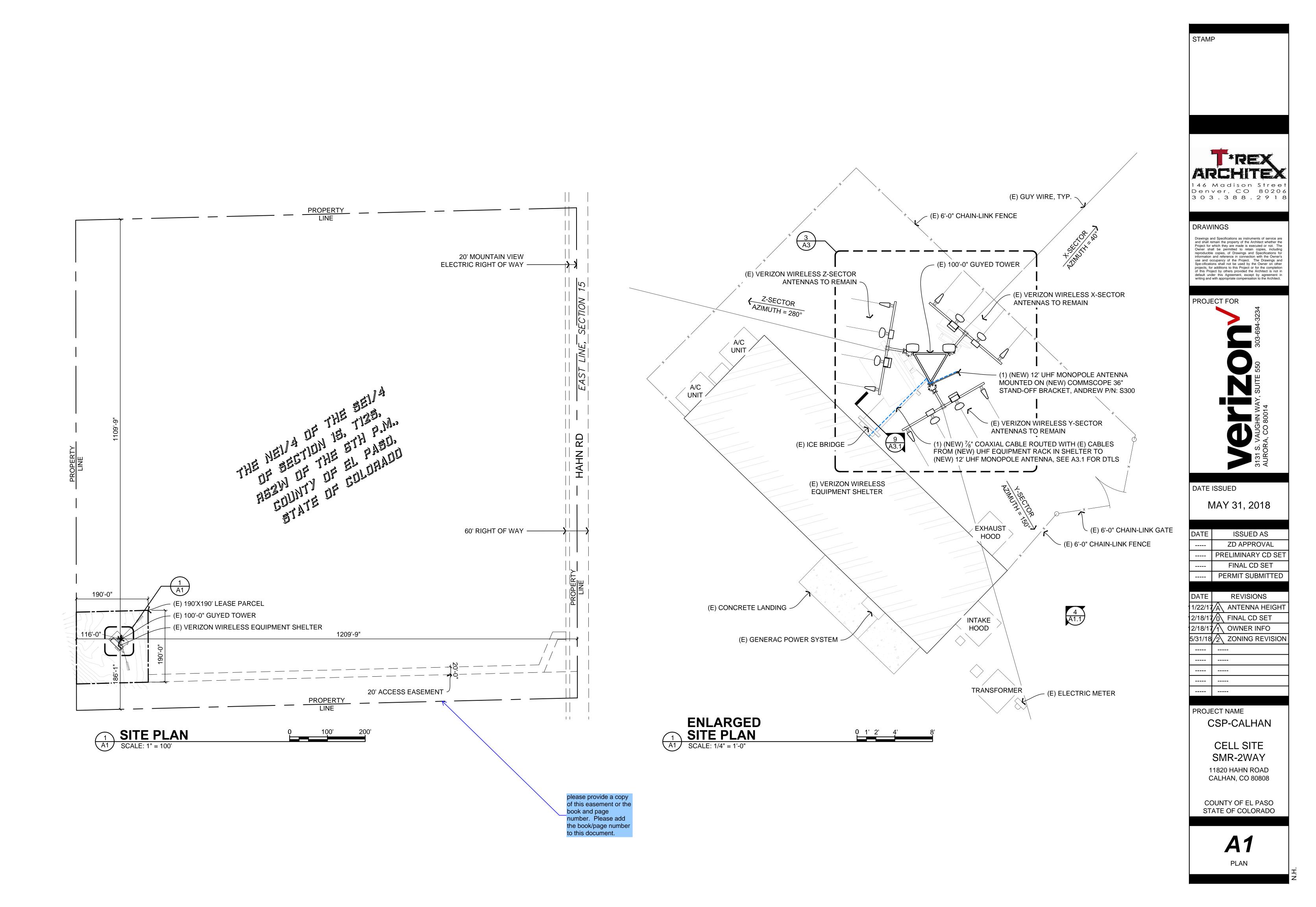
THIS IS TO CERTIFY THAT THIS TOPOGRAPHIC MAP AND IMPROVEMENTS SHOWN ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



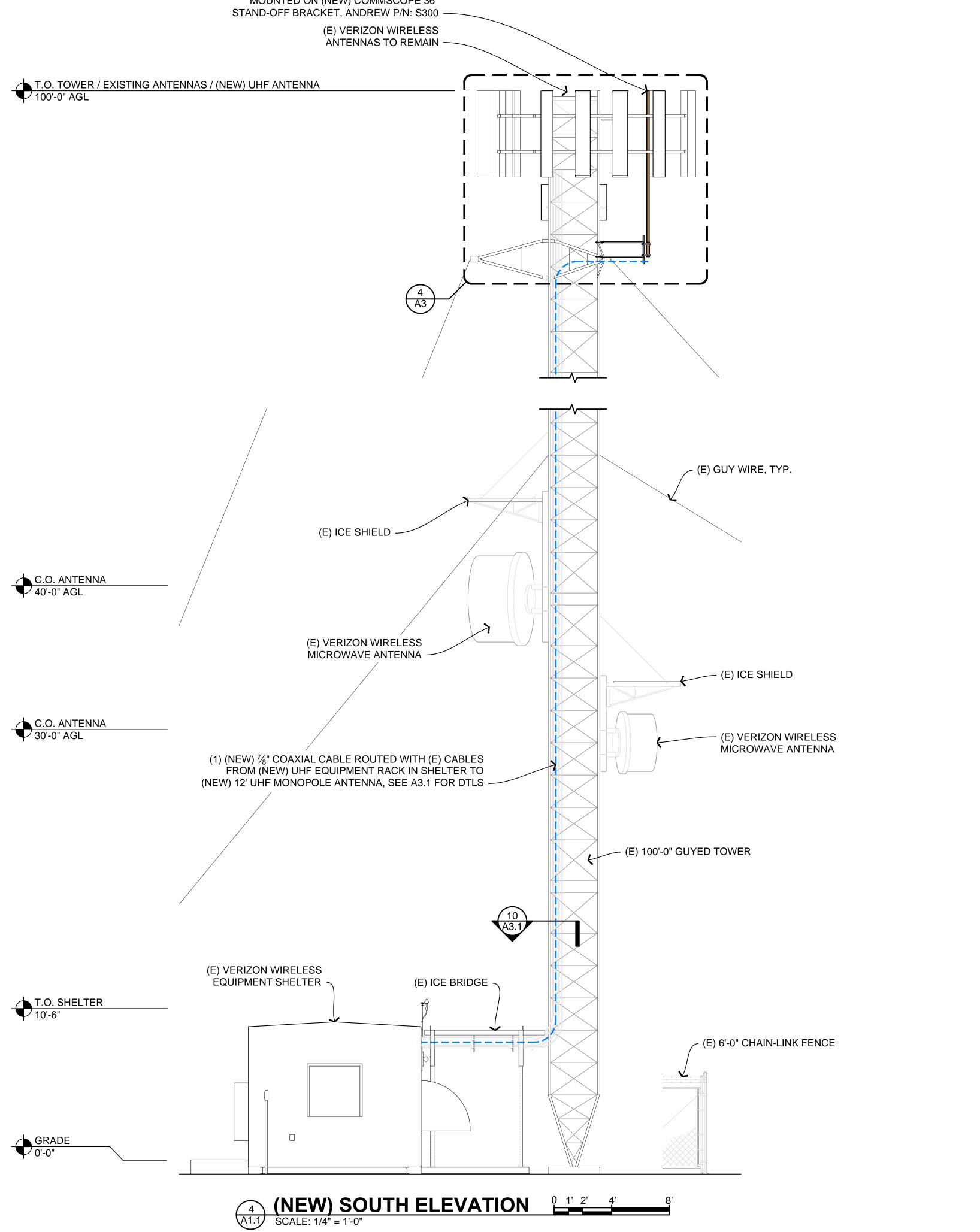
WIT A MONUMENTED SURVEY. REFERENCE IS MADE TO A COMMITMENT FOR TITLE INSURANCE, NUMBER 3004, ISSUED BY CANDLAND TITLE RESEARCH, LLC, AND HAVING AN EFFECTIVE DATE OF JANUARY 7, 2010. THIS SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. THE LESSOR'S LEGAL DESCRIPTION AND RECORD BOUNDARY ARE SHOWN HEREON FOR REFERENCE ONLY.

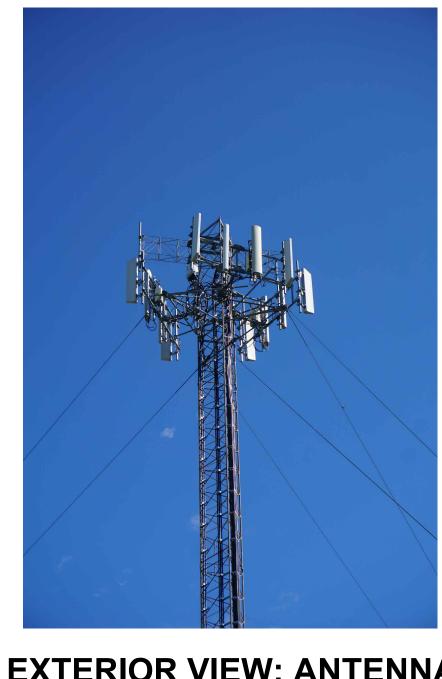
THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE LESSOR'S PROPERTY.

DEPT APPROVED DATE A&C DATE A&C RE RE RE INT R EE\IN R CPS EE\OUT
Engineer/Consultant: CAL VADA SURVEVING, INC. 551 S. Rever Pkwy, Suite 165 6551 S. Rever Pkwy, Suite 155 6551 S. Rever Pkwy, Suite 155 700 S.
Architect: Archite X 146 Madison Street Denver, CO 80206 3 0 3 : 3 8 8 : 2 9 1 8
Wireless (949) 222-7000
Mireless 3131 S. Vaughn Way, Suite 550 (949) 222-7000
C
CSP CALHAN LTE 11820 HAHN RD. CALHAN, CO. 80808 COUNTY OF EL PASO TOPOGRAPHIC SURVEY
REVISIONS 0 2/9/10 SUBMITTAL 0 JFT
Sheet:



(1) (NEW) 12' UHF MONOPOLE ANTENNA MOUNTED ON (NEW) COMMSCOPE 36"



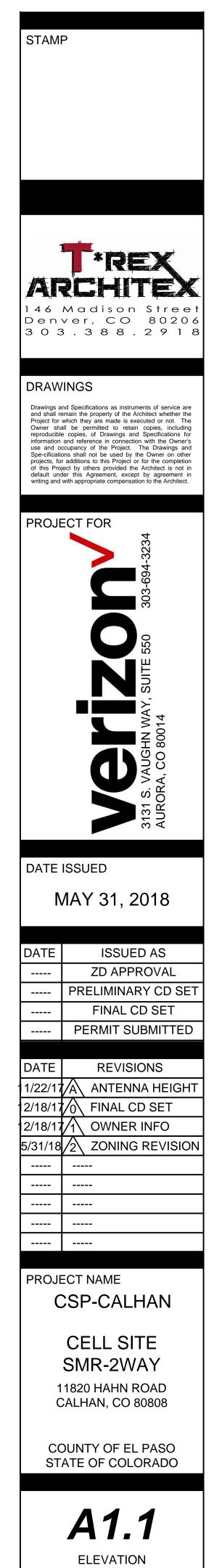


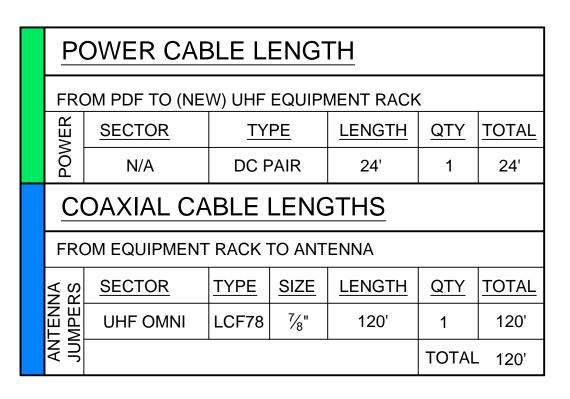




3 A1.1 SCALE: N.T.S.

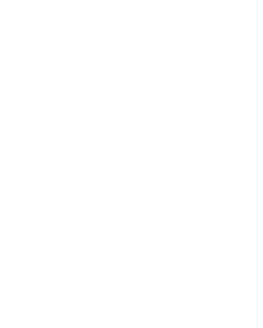
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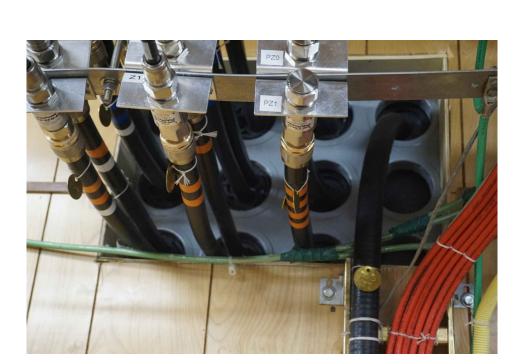












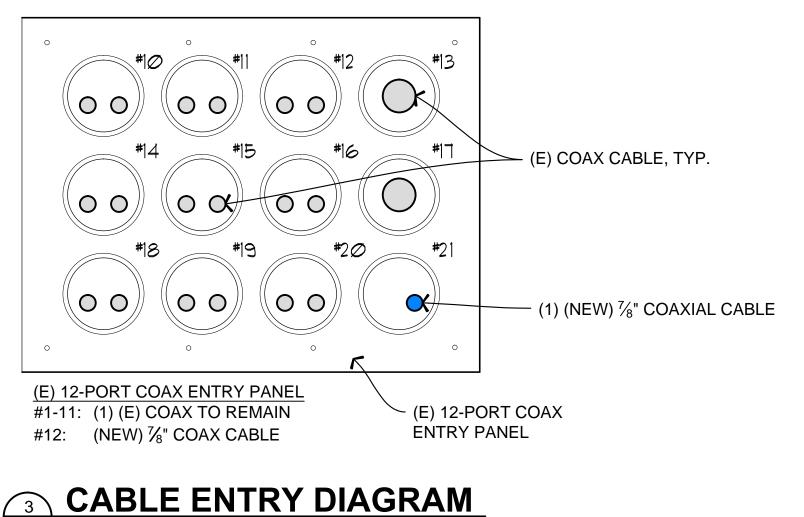
INTERIOR VIEW:

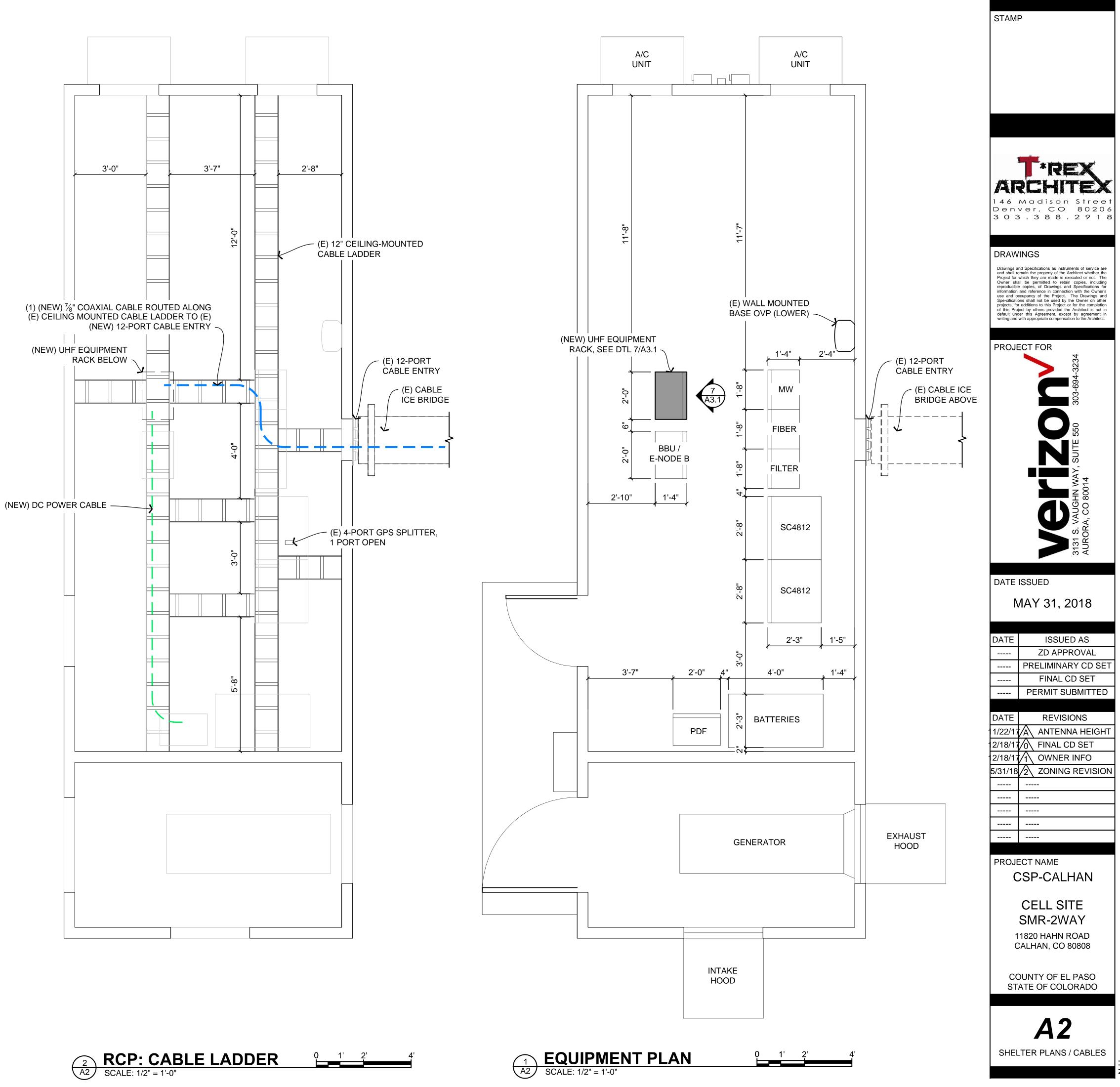
GPS SPLITTER

A2 SCALE: N.T.S.

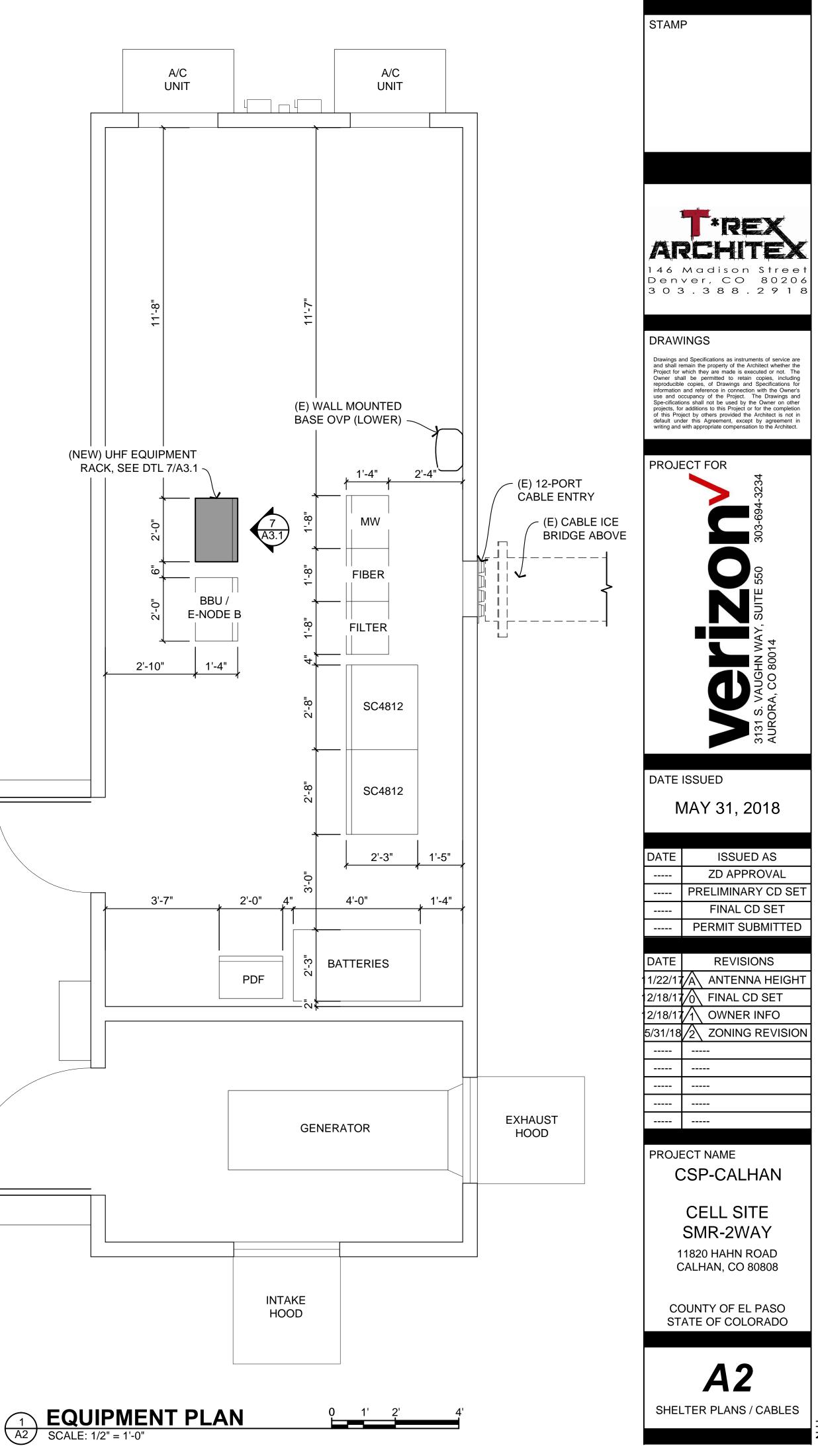


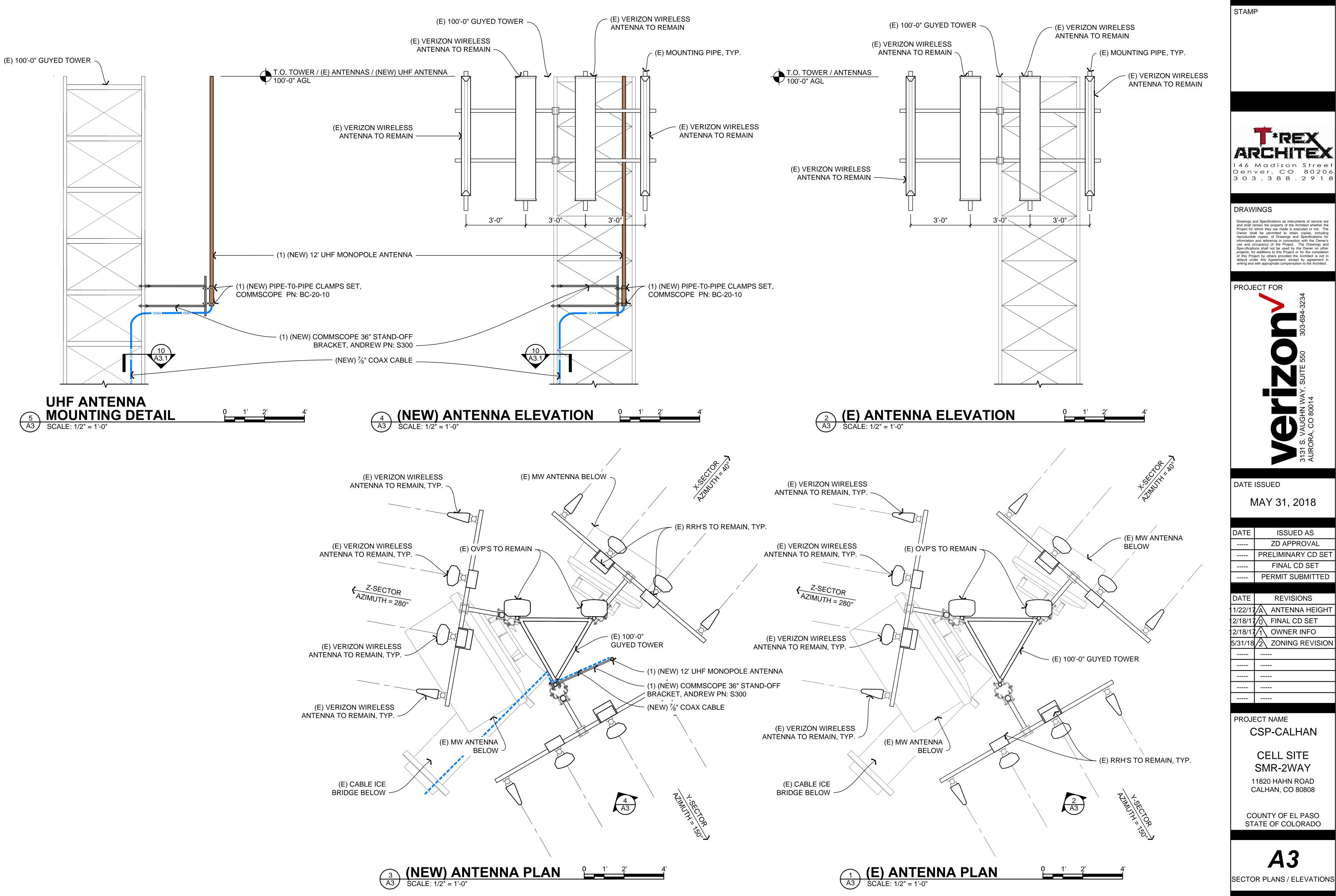
A2 SCALE: N.T.S.



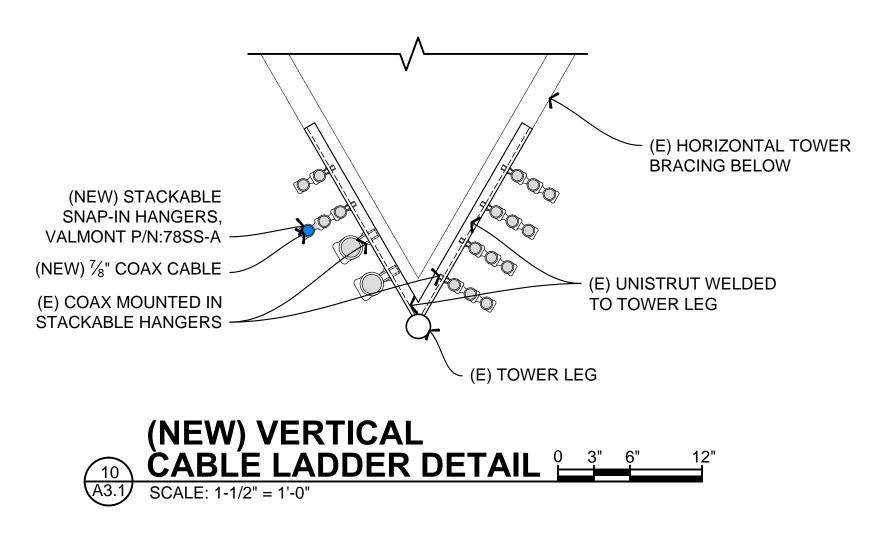


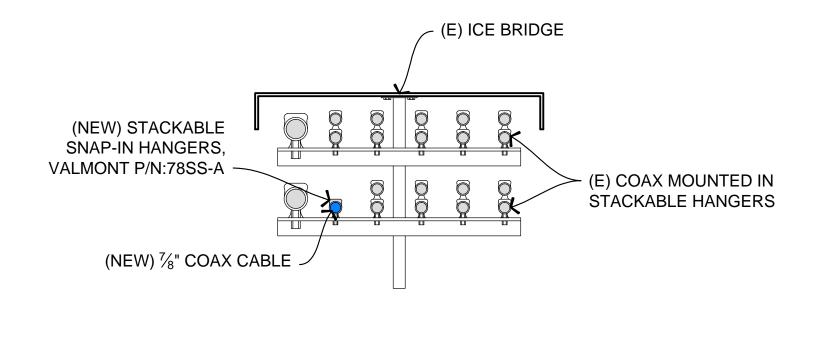








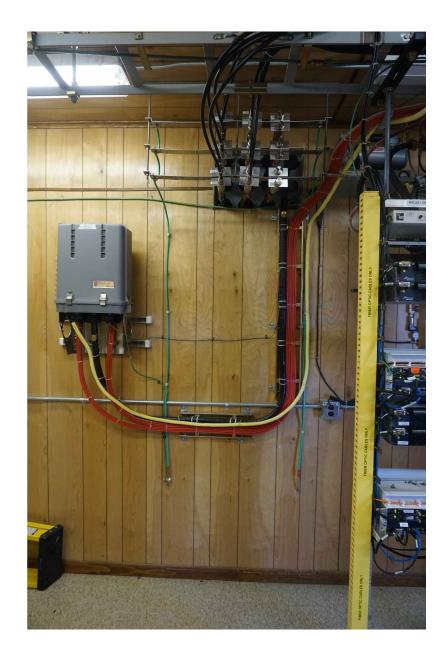




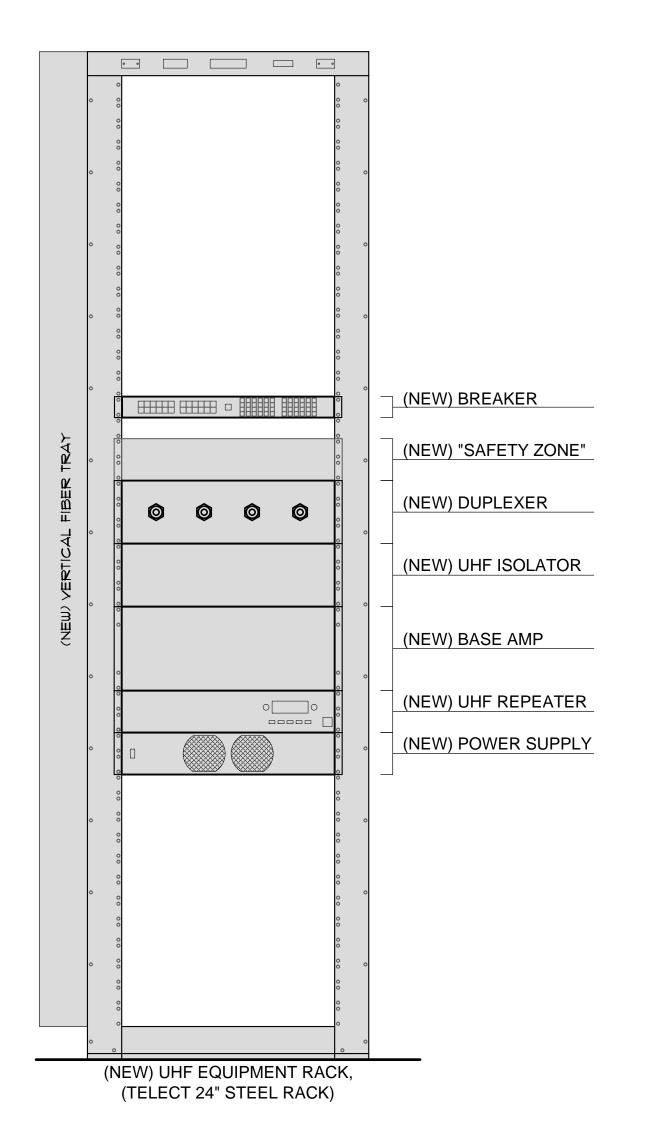












LORAIN POWER SY:	STEMS		<i>vo</i>
RECT. 1	RECT. 2	RECT. 3	487
24 VDC 100A	24 VDC 100A	24 VDC 100A	487
RECT. 4	RECT. 5	RECT. 6	487
24 VDC 100A	24 VDC 100A	24 VDC 100A	487
VACANT	VACANT	VACANT	VAC,

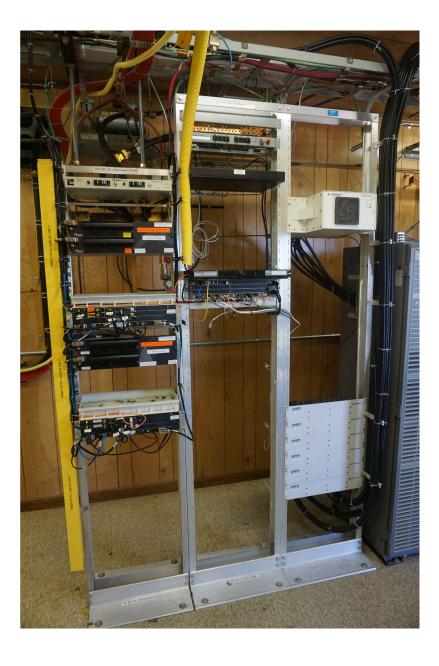
LORAIN POWER SYSTEMS: (6) 24 VDC RECTIFIERS @ 130A (8) 48 VDC RECTIFIERS @ 10A LOAD = 238 A

48V VDC BUS: (5) BREAKERS (3) EMPTY SLOTS







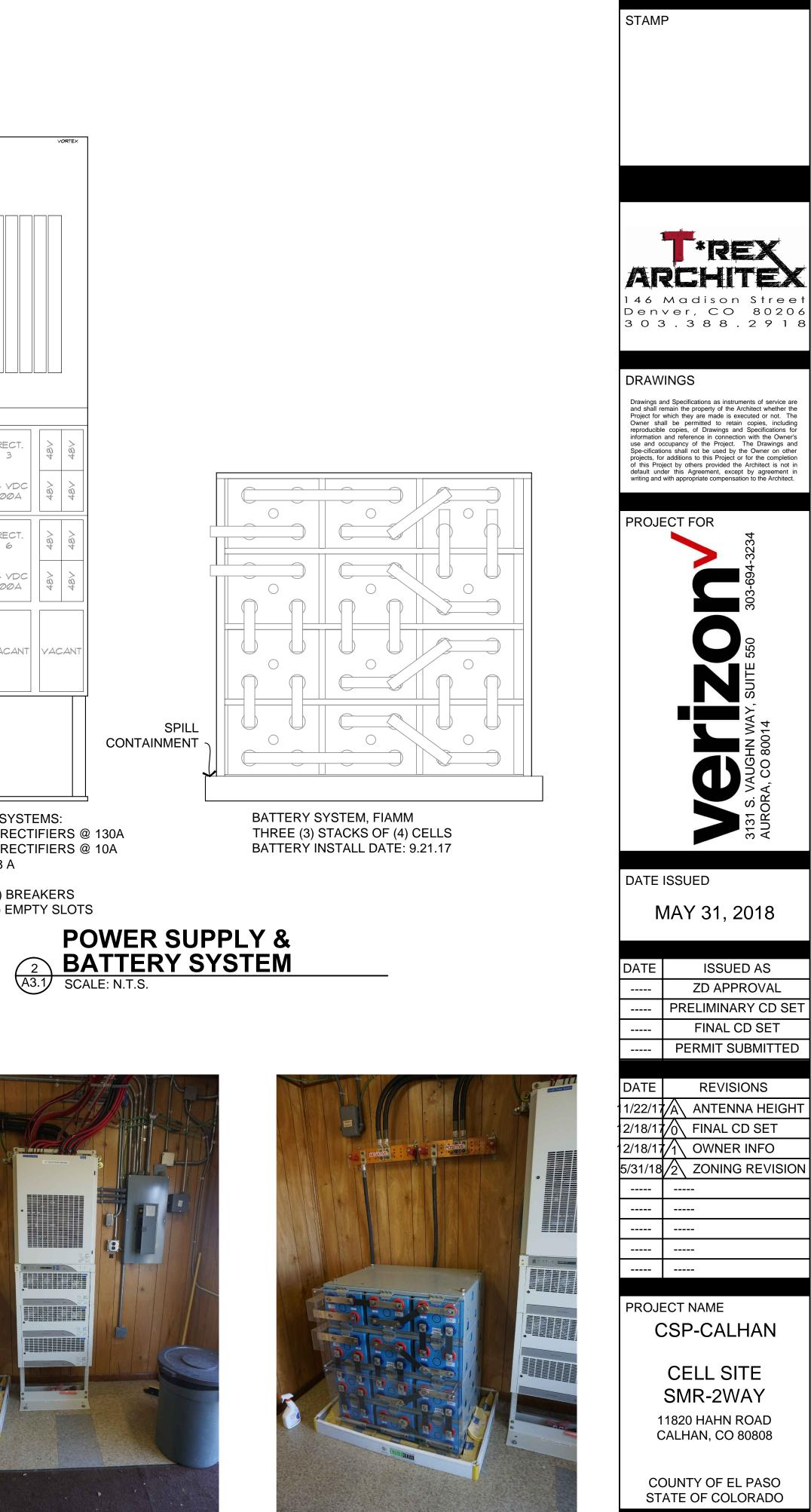














A3.1

DETAILS

20

Markup Summary

6

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