



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

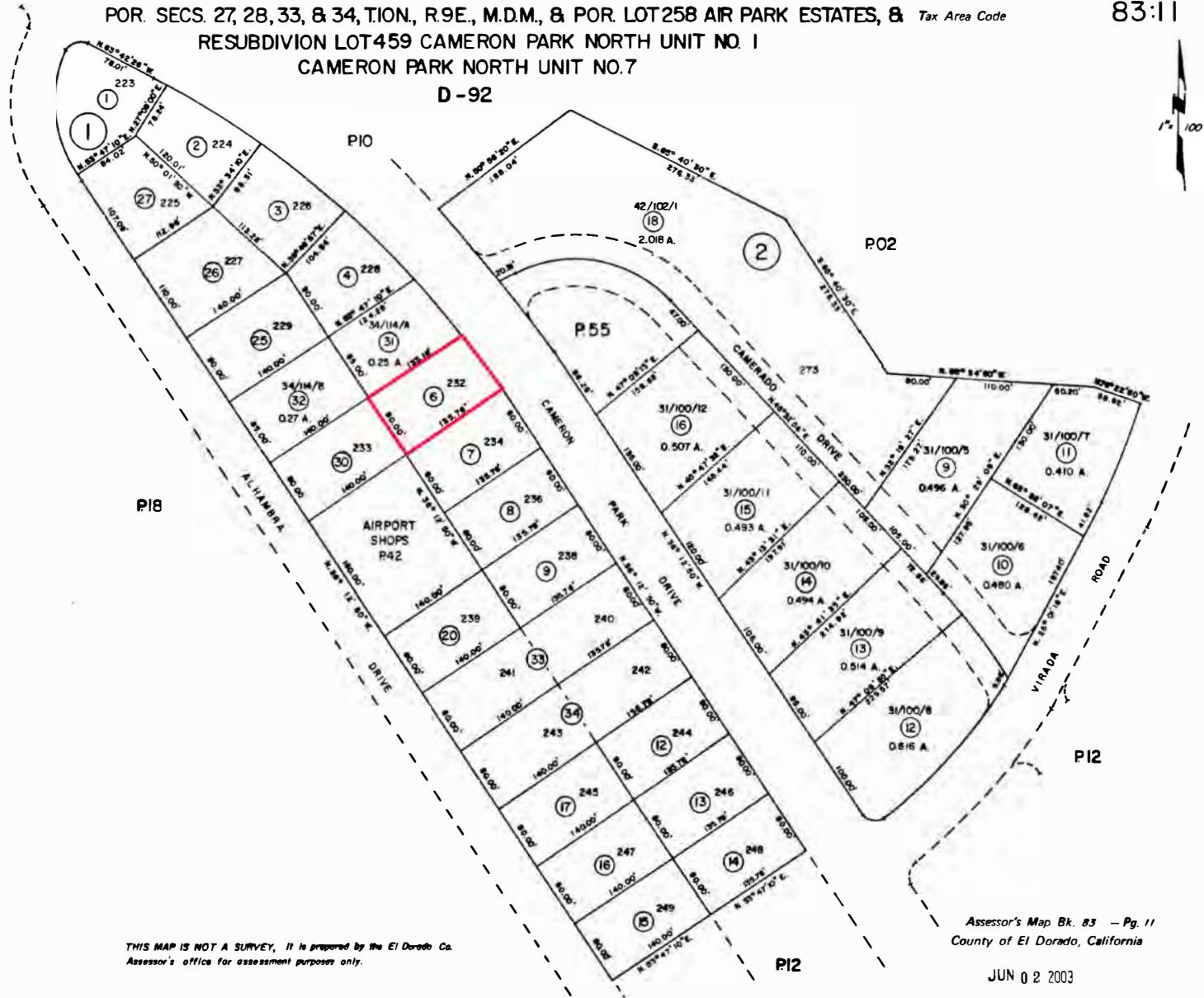
0 0.05 0.1 0.2 0.3 0.4 Miles

CUP-R22-0031 Alhambra Drive Monopine Exhibit A: Location Map



POR. SECS. 27, 28, 33, & 34, TION., R.9E., M.D.M., & POR. LOT 258 AIR PARK ESTATES, & Tax Area Code
 RESUBDIVION LOT 459 CAMERON PARK NORTH UNIT NO. 1
 CAMERON PARK NORTH UNIT NO.7
 D-92

83:11

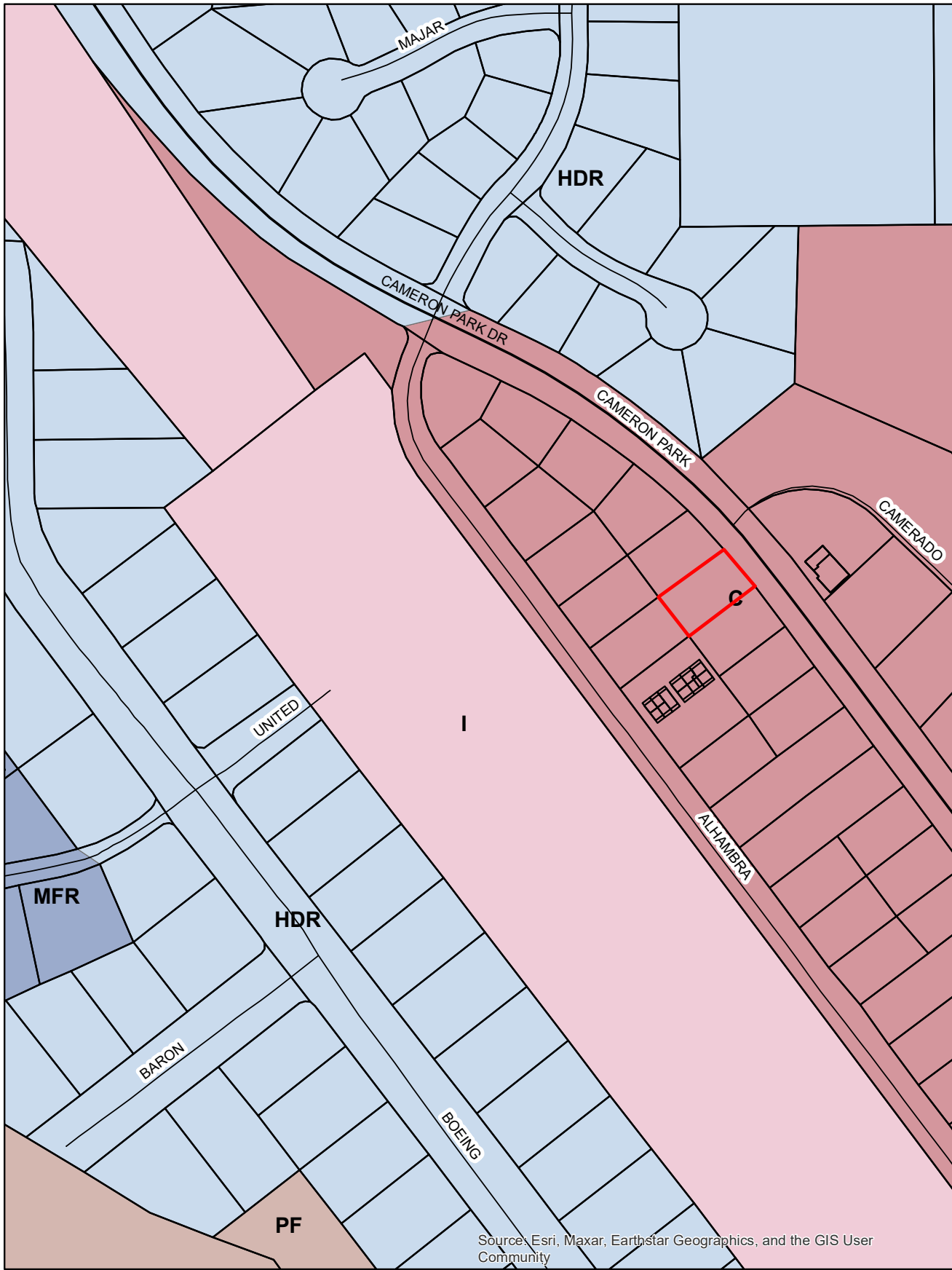


THIS MAP IS NOT A SURVEY, It is prepared by the El Dorado Co. Assessor's office for assessment purposes only.

Assessor's Map Bk. 83 - Pg. 11
 County of El Dorado, California

JUN 02 2003

CUP-R22-0031 Alhambra Drive Monopine Exhibit B: Assessor's Parcel Map

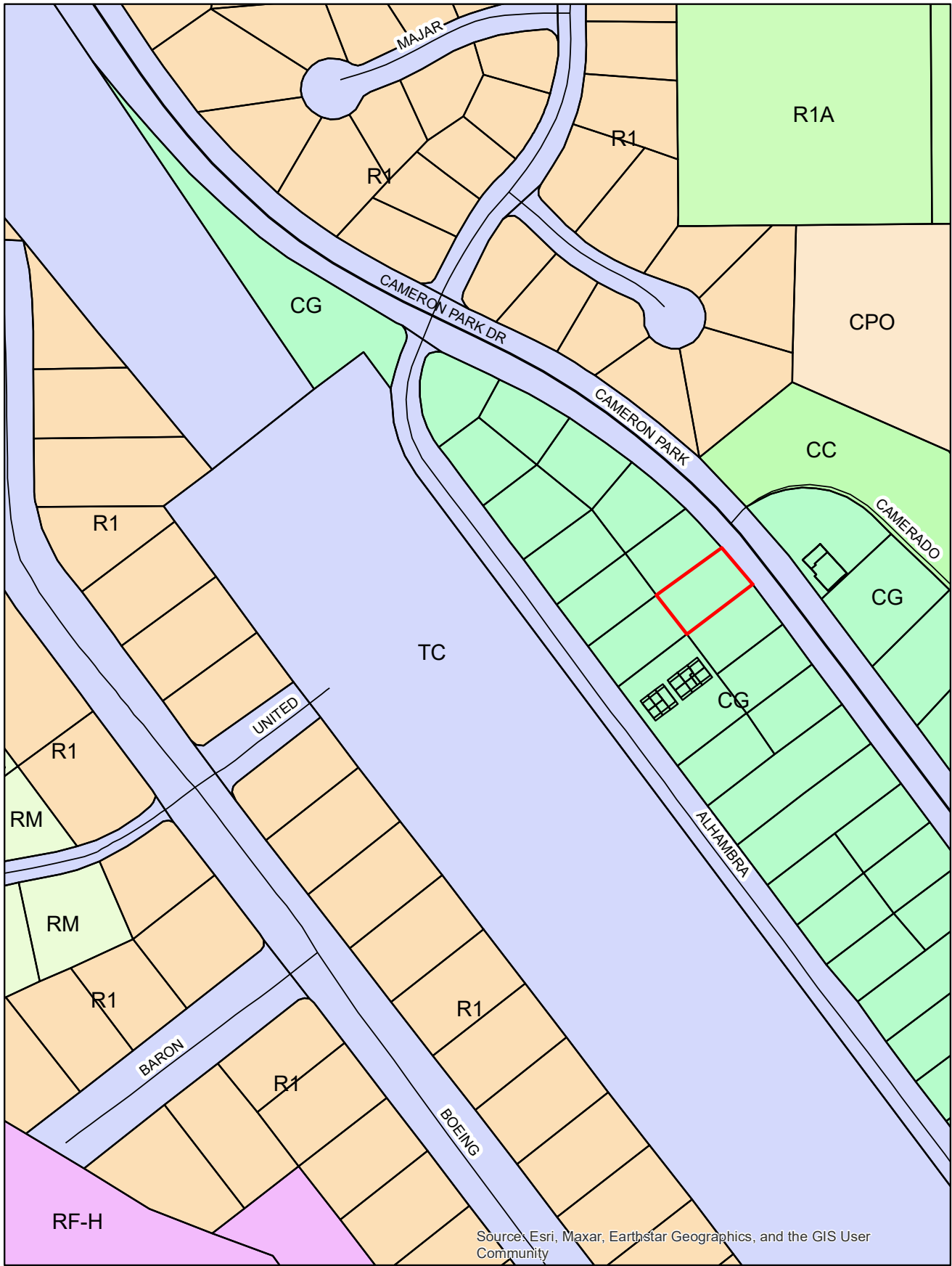


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 0.03 0.06 0.12 0.18 0.24 Miles

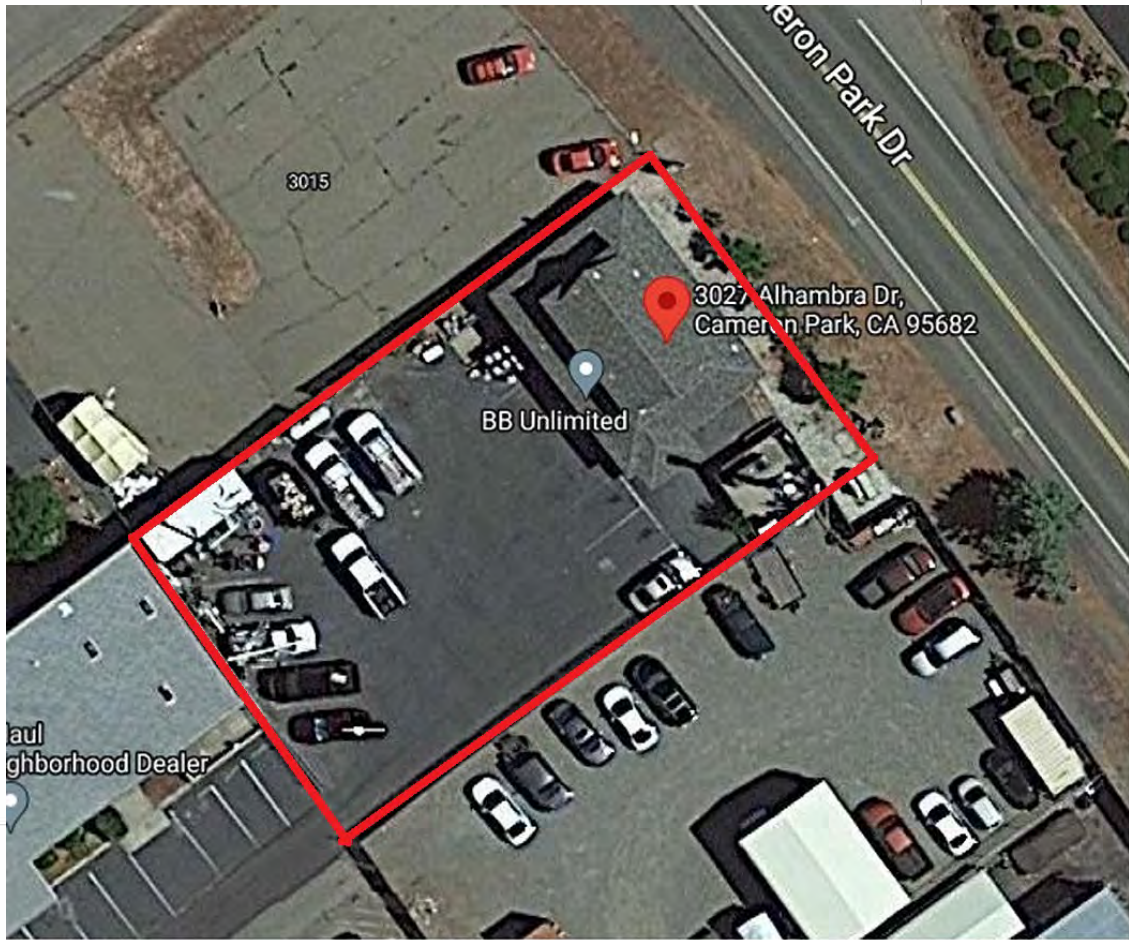
**CUP-R22-0031 Alhambra Drive Monopine Exhibit C:
Land Use Designation Map**





**CUP-R22-0031 Alhambra Drive Monopine Exhibit D:
Zoning Designation Map**





CUP-R22-0031 Alhambra Drive Monopine Exhibit E: Aerial Site Map

T-Mobile

T-MOBILE SITE NUMBER: SC09948A
T-MOBILE SITE NAME: SA948 CAMERON PARK
SITE TYPE: MONOPOLE
TOWER HEIGHT: 50'-0"

BUSINESS UNIT #: 827264
SITE ADDRESS: 3027 ALHAMBRA DR.
 CAMERON PARK, CA 95682
COUNTY: EL DORADO COUNTY
JURISDICTION: EL DORADO COUNTY

ANCHOR

T-Mobile
 1755 CREEKSIDE OAKS DR. SUITE 190
 SACRAMENTO, CA 95833

CROWN CASTLE
 200 SPECTRUM CENTER DRIVE,
 SUITE 1700 & 1800
 IRVINE, CA 92618

TELCYTE
 INFRASTRUCTURE SERVICES
 3450 N HIGLEY RD - SUITE 102,
 MESA, AZ 85215

T-MOBILE SITE NUMBER:
SC09948A

BU #: 827264

 3027 ALHAMBRA DR.
 CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE

SITE INFORMATION

CROWN CASTLE USA INC.
 SITE NAME: SA948 CAMERON PARK

SITE ADDRESS: 3027 ALHAMBRA DR.
 CAMERON PARK, CA 95682

COUNTY: EL DORADO COUNTY

MAP/PARCEL #: 083-111-006

AREA OF CONSTRUCTION: EXISTING

LATITUDE: 38° 41' 15.6114" N (38.68766992)

LONGITUDE: 120° 59' 20.2842" W (-120.98896800)

LAT/LONG TYPE: NAD83

GROUND ELEVATION: 1299'

CURRENT ZONING: PENDING

JURISDICTION: EL DORADO COUNTY

OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION: IIB

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER: CROWN CASTLE
 2000 CORPORATE DR
 CANONSBURG, PA 15317

TOWER OWNER: CCTMI LLC
 ONE PARK PLACE, SUITE 300,
 DUBLIN, CA 94568

CARRIER/APPLICANT: T-MOBILE
 1755 CREEKSIDE OAKS DR. SUITE 190
 SACRAMENTO, CA 95833

CROWN CASTLE USA INC.
 APPLICATION ID: PENDING

ELECTRIC PROVIDER: TBD

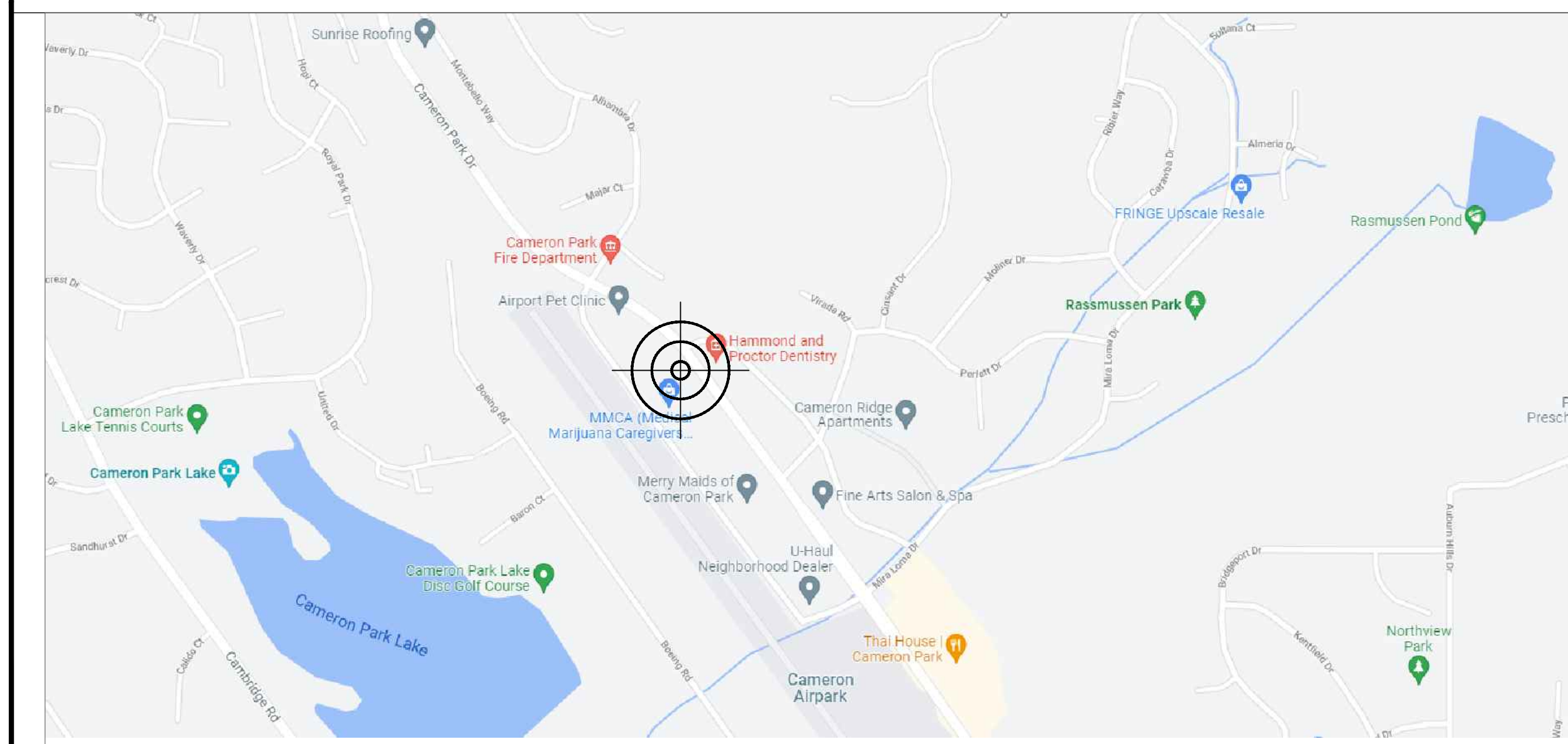
TELCO PROVIDER: TBD

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.0	SITE PLAN
C-2.1	EXISTING EQUIPMENT PLAN
C-2.2	FINAL EQUIPMENT PLAN
C-3	ELEVATIONS
C-4	ELEVATIONS
C-5	ANTENNA PLAN, MOUNTING DETAILS, & SCHEDULE
C-6	EQUIPMENT SPECIFICATIONS
C-7	EQUIPMENT SPECIFICATIONS
C-8	EQUIPMENT SPECIFICATIONS
E-1	AC PANEL SCHEDULE & ONE-LINE DIAGRAM
G-1	ANTENNA/GROUND EQUIPMENT GROUNDING DETAILS
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP



APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
PROJECT MANAGER	_____	_____	_____
CONST. PM.	_____	_____	_____
RF ENGINEER	_____	_____	_____
SAC REP.	_____	_____	_____
PLAN CONSULTANT	_____	_____	_____
PROP. OWNER	_____	_____	_____
T-MOBILE REP.	_____	_____	_____

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

APPLICABLE CODES/ REFERENCE DOCUMENTS

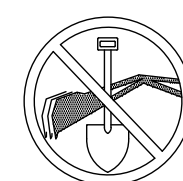
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2019 CALIFORNIA BUILDING CODE (CBC)/2018 IBC
MECHANICAL	2019 CALIFORNIA MECHANICAL CODE (CMC)/2018 UMC
ELECTRICAL	2019 CALIFORNIA ELECTRICAL CODE (CEC)/2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	T.B.D
	T.B.D
MOUNT ANALYSIS:	T.B.D
	T.B.D

NOTE:
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER



CALL CALIFORNIA ONE CALL
 (800) 227-2600
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK

- REMOVE (3) ANTENNAS
- REMOVE (6) TMAS
- REMOVE (6) DIPLEXERS
- REMOVE (6) 7/8" COAX CABLES
- INSTALL (6) ANTENNAS
- INSTALL (6) RRUS
- INSTALL (2) 6X24 4AWG HCS 20M
- INSTALL (9) NEW MOUNTS (SITEPRO1 - FMA2)
- NEW MONOPOLE EXTENSION (NOT TO EXCEED 18" DIAMETER)

GROUND SCOPE OF WORK

- REMOVE (1) BB 6630
- REMOVE (6) RUS01 B2
- REMOVE (6) RUS01 B4
- INSTALL (2) BB 6648
- INSTALL (2) PSU 4813 vR2A (KIT)
- INSTALL (1) CSR IXRe V2 (GEN2)
- INSTALL (1) 6160 ENCLOSURE
- INSTALL (1) B160 BATTERY CABINET

CONFIG: 67E5A998E HYBRID

DESIGN PACKAGE BASED ON THE RFD'S
 REVISION: 7
 DATE: 05/25/2022

DESIGN PACKAGE BASED ON THE APPLICATION ID: PENDING
 REVISION: PENDING

ISSUED FOR:

REV	DATE	DRAWN	DESCRIPTION	Q.A.
A	01/25/22	NP	PRELIMINARY	CW
B	02/03/22	NP	CLIENT REVISIONS	CW
C	05/03/22	MK	SOW CHANGE	CW
D	06/08/22	AK	CLIENT REVISIONS	CW
0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-1

REVISION:

0

T-Mobile

1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833

CROWN CASTLE

200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

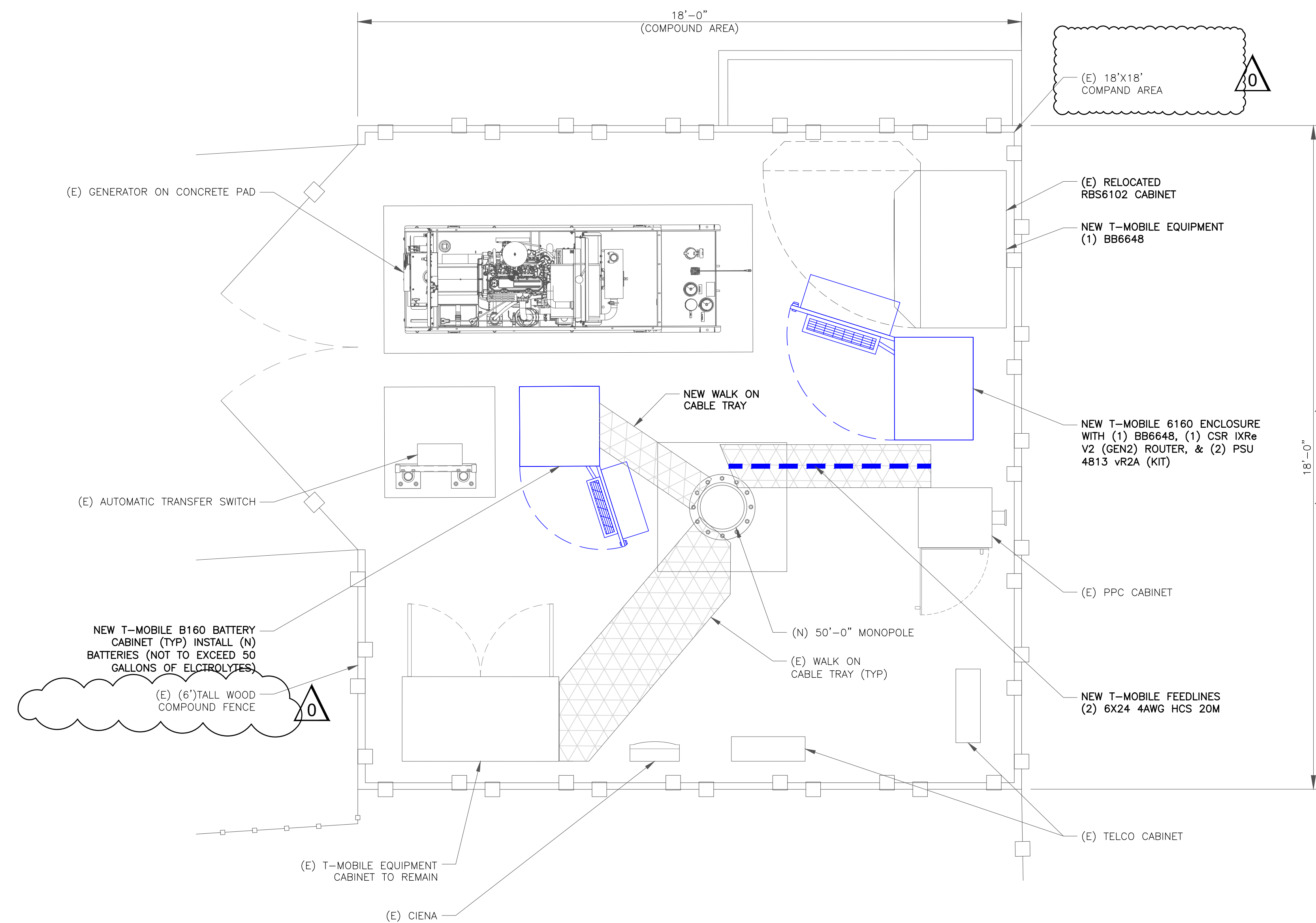
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

T-MOBILE SITE NUMBER:
SC09948A

BU #: 827264

3027 ALHAMBRA DR.
CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE



ISSUED FOR:

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B	02/05/22	NP	CLIENT REVISIONS	CW
C	05/03/22	MK	SOW CHANGE	CW
D	06/08/22	AK	CLIENT REVISIONS	CW
0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD



SIGNED, 20 JUN 2022

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SHEET NUMBER:

C-2.2

REVISION:

0

1 FINAL EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



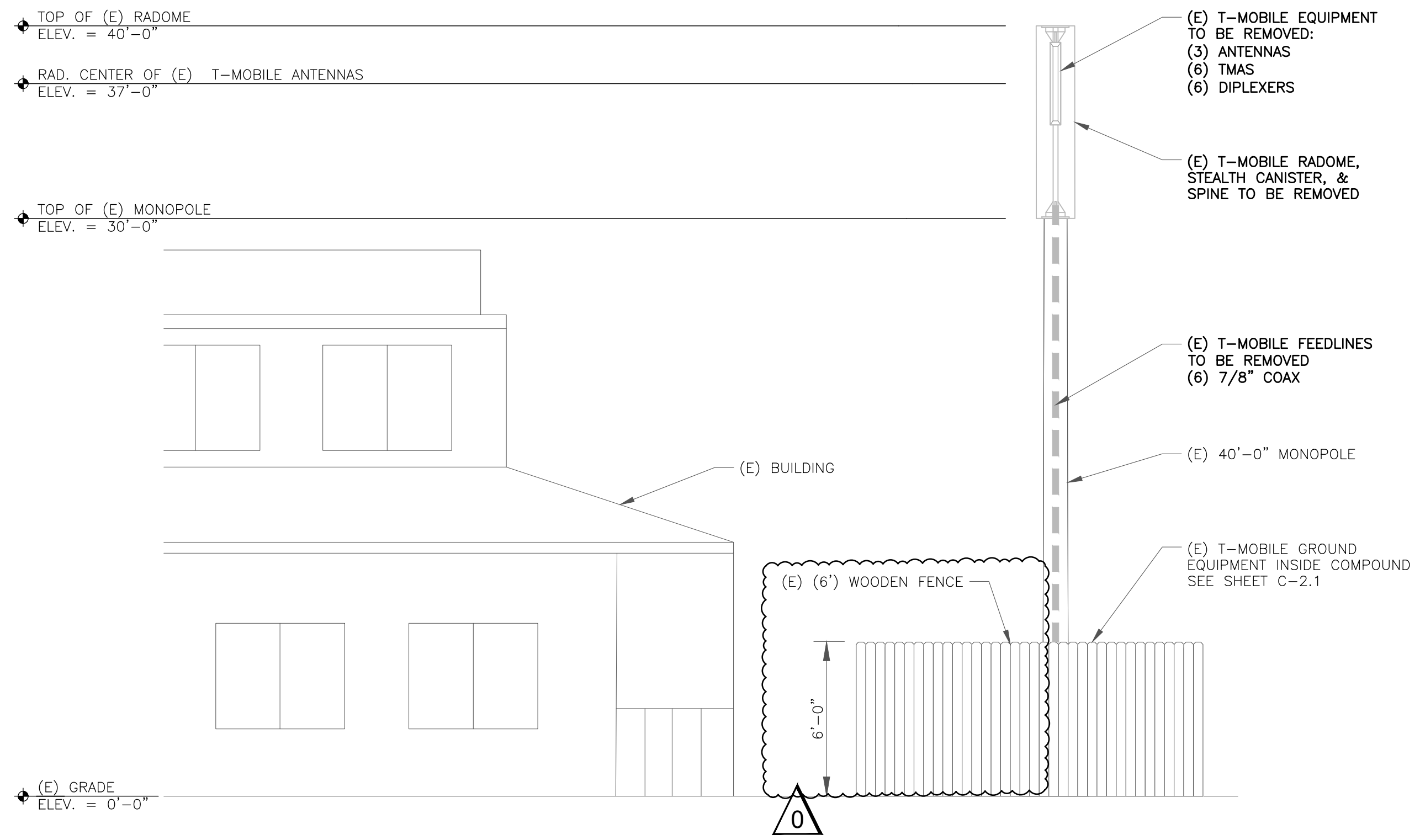
T-MOBILE EQUIPMENT

ANTENNA CL: 48'-0"
MOUNT CL: 40'-4"

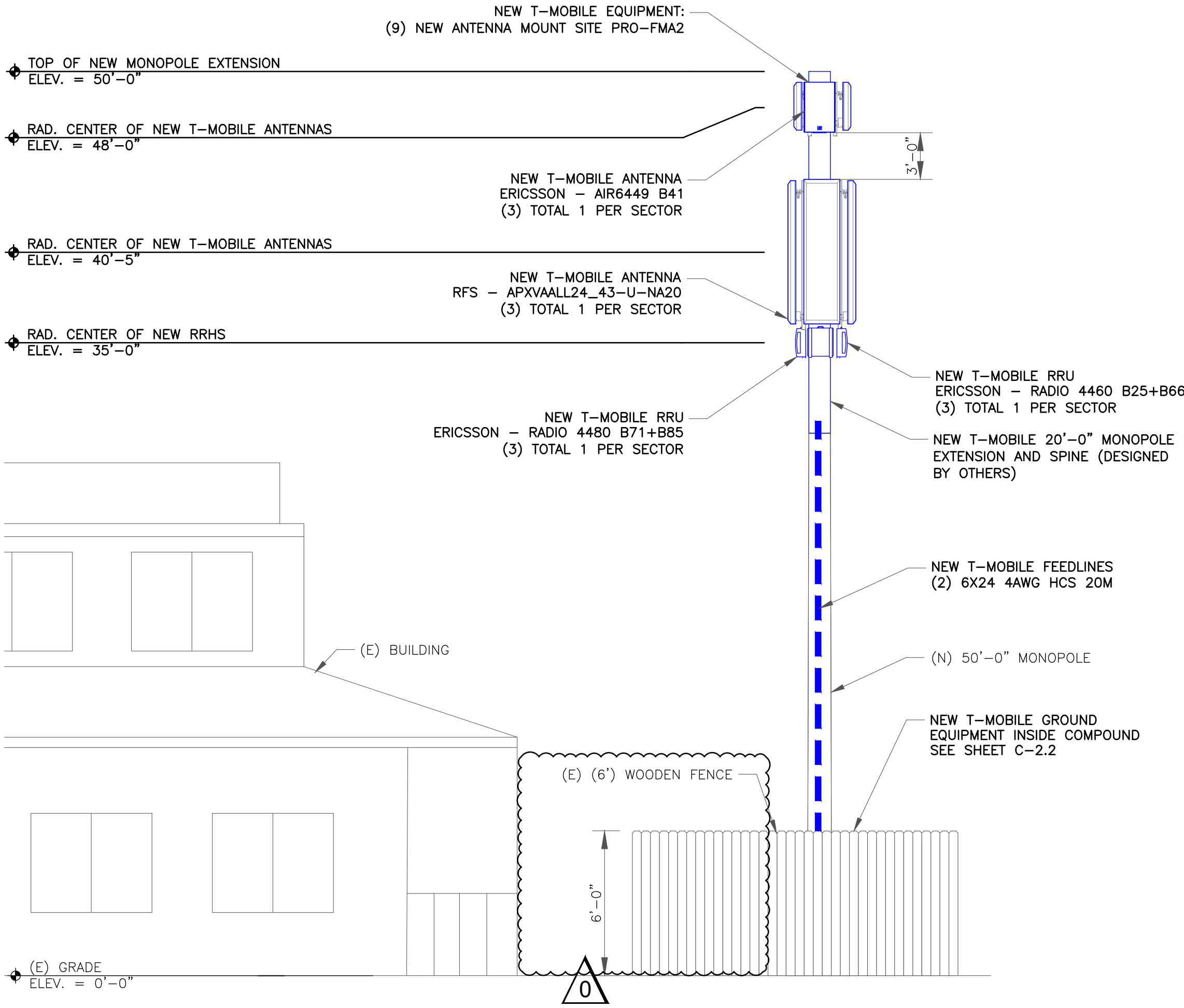
NOTE:
• ALL NEW EXPOSED EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING ADJACENT BUILDING

T-MOBILE EQUIPMENT

ANTENNA CL: 48'-0"
MOUNT CL: 40'-4"



1 EXISTING SOUTHWEST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



2 NEW SOUTHWEST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



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SUITE 1700 & 1800
IRVINE, CA 92618



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MESA, AZ 85215

T-MOBILE SITE NUMBER:
SC09948A

BU #: 827264

3027 ALHAMBRA DR.
CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE

ISSUED FOR:

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0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD



SIGNED, 20 JUN 2022

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SHEET NUMBER:

C-3

REVISION:

0

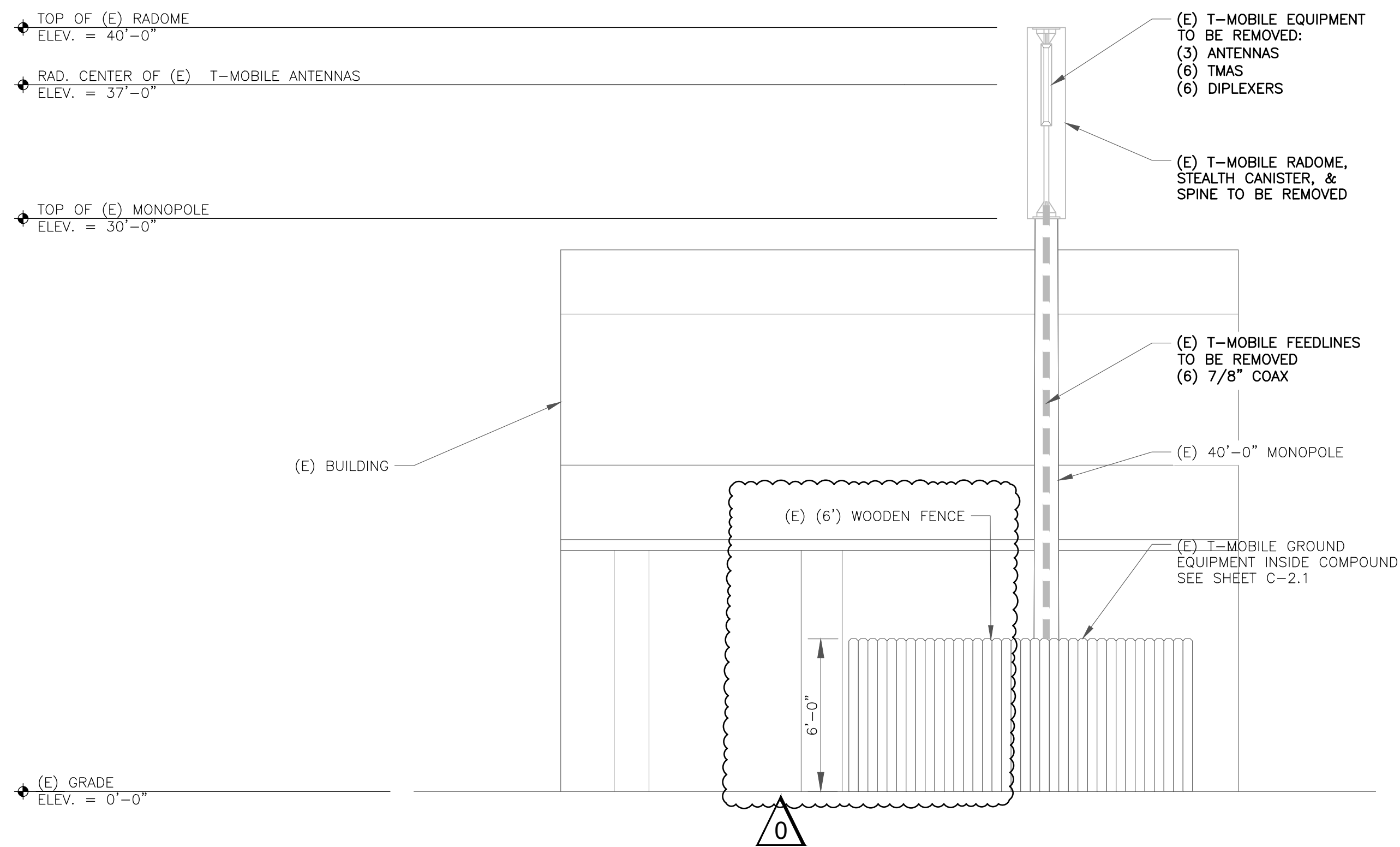
T-MOBILE EQUIPMENT

ANTENNA CL: 48'-0"
MOUNT CL: 40'-4"

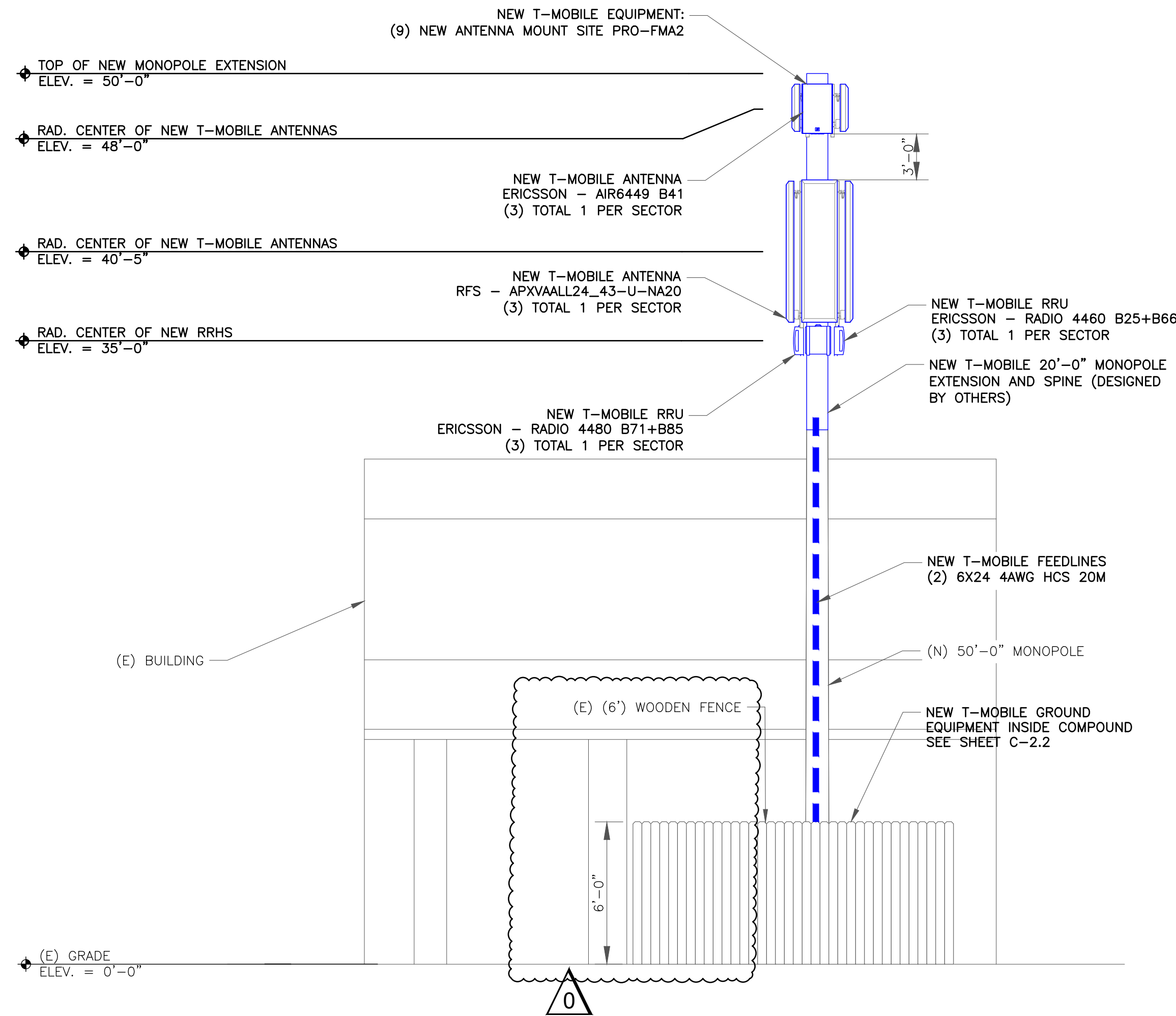
NOTE:
• ALL NEW EXPOSED EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING ADJACENT BUILDING

T-MOBILE EQUIPMENT

ANTENNA CL: 48'-0"
MOUNT CL: 40'-4"



1 EXISTING SOUTHEAST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



2 NEW SOUTHEAST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618



3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

T-MOBILE SITE NUMBER:
SC09948A

BU #: 827264

3027 ALHAMBRA DR.
CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRAWN	DESCRIPTION	Q.A.
A	01/25/22	NP	PRELIMINARY	CW
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C	05/03/22	MK	SOW CHANGE	CW
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0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD



SIGNED, 20 JUN 2022

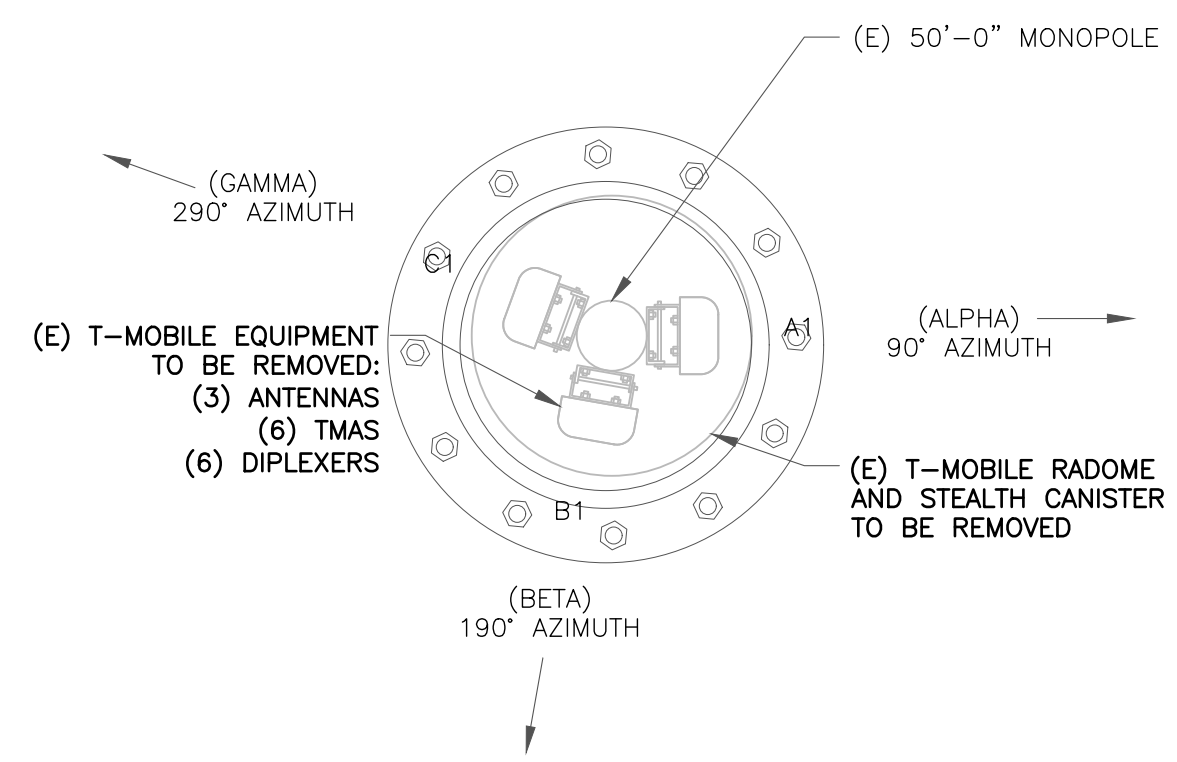
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C-4

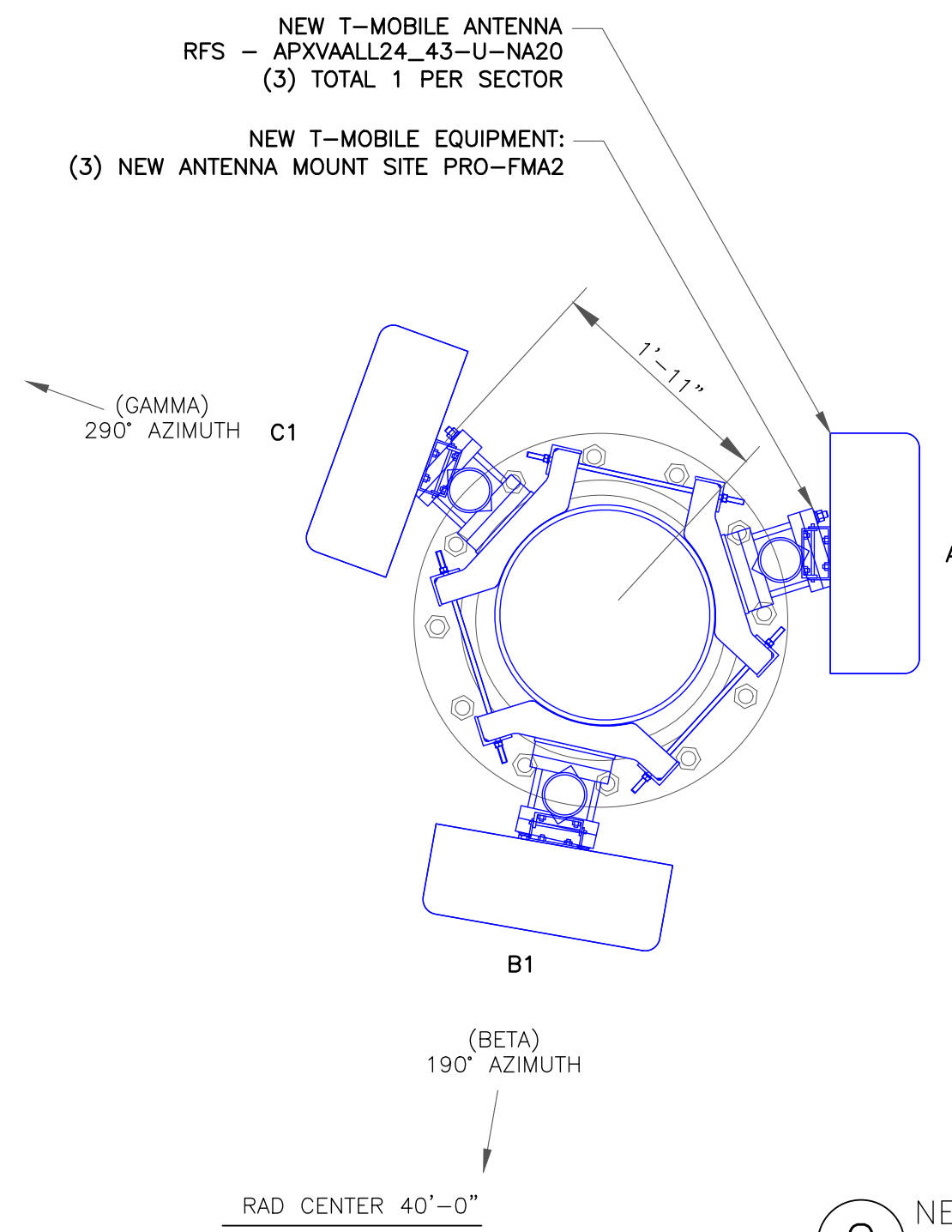
REVISION:

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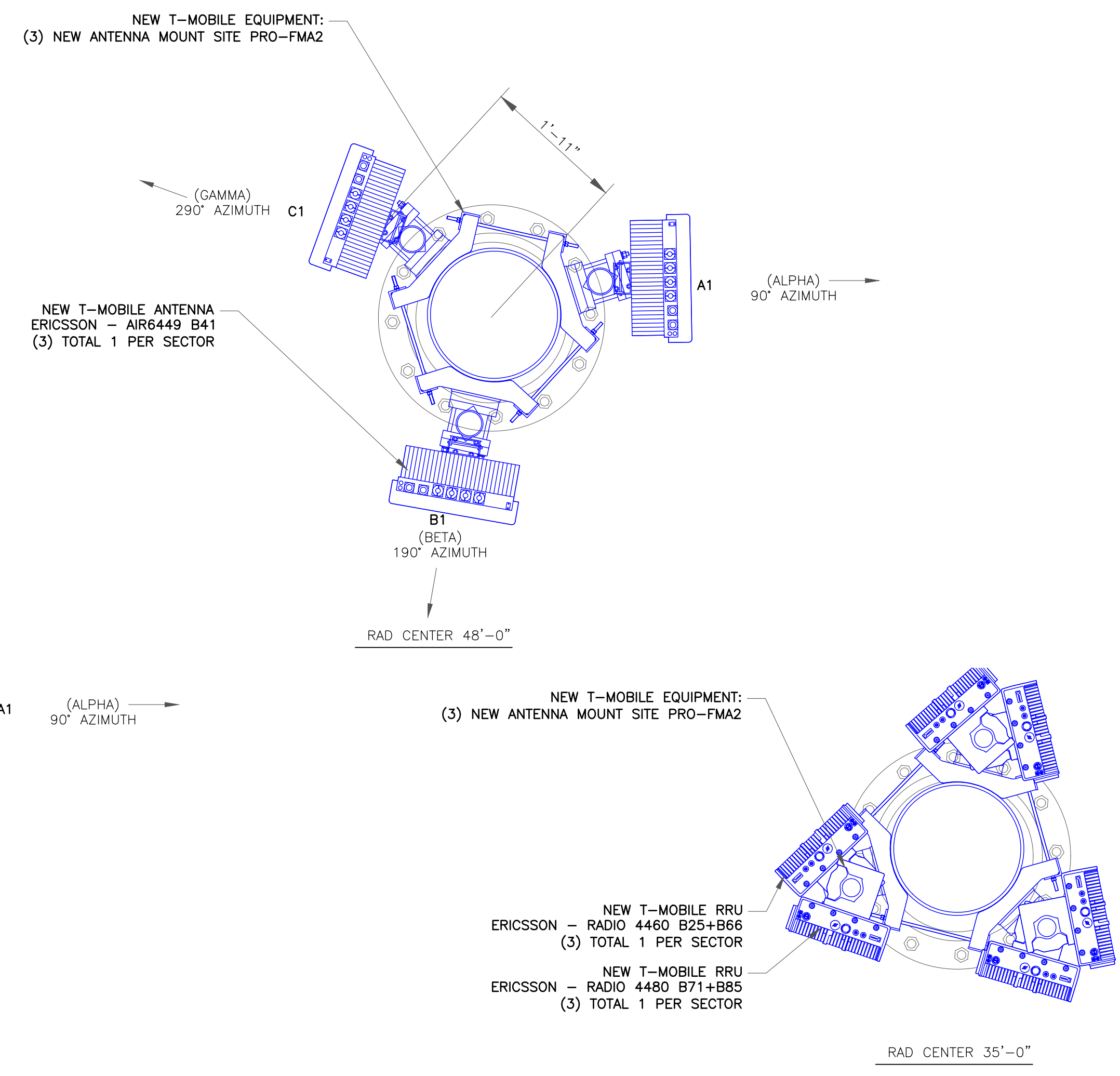


1 EXISTING ANTENNA LAYOUT
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)

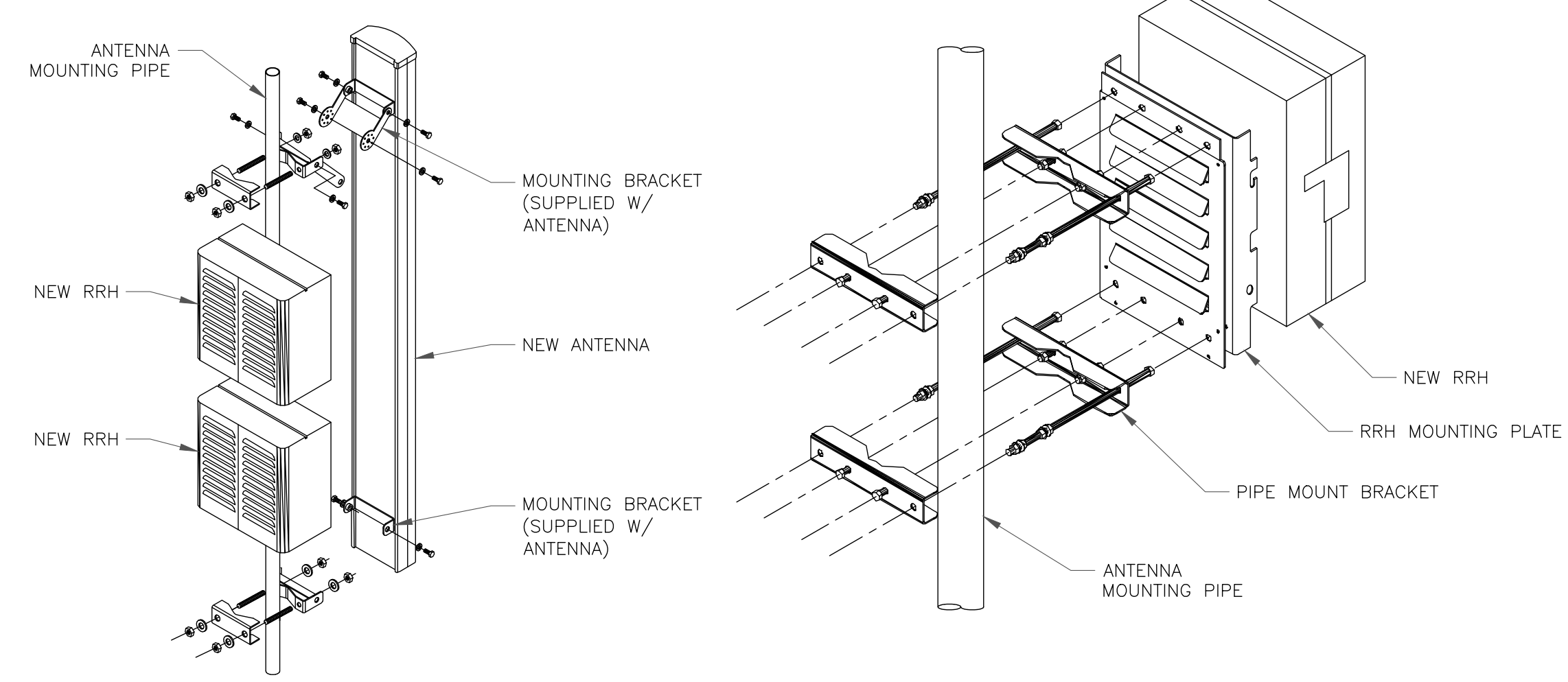
INSTALLER NOTE:
REPLACE EXISTING PIPE MOUNTS WITH NEW 2-1/2" STD (2-7/8" O.D.) GALV. SCH 40 PIPE AS REQ'D.



2 NEW ANTENNA LAYOUT
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)



INSTALLER NOTES:
1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



3 ANTENNA & RRU MOUNTING
SCALE: NOT TO SCALE

ANTENNA SCHEDULE (VERIFY WITH CURRENT RFDS)

SECTOR	TECHNOLOGY		ANTENNA	RAD CENTER	HCS/COAX		RRU	ANTENNA AZIMUTH	
	EXISTING	PROPOSED			EXISTING	FINAL		EXISTING	PROPOSED
A1	U1900/L2100/G1900	L700/L600/N600/L2100/L1900/G1900/U1900	RFS APXVAALL24_43-U-NA20	40'-0"			4480 B71+B85 4460 B25+B86	90°	90°
A2	-	L2500/N2500	ERICSSON AIR6449 B41	48'-0"			-	90°	90°
B1	U1900/L2100/G1900	L700/L600/N600/L2100/L1900/G1900/U1900	RFS APXVAALL24_43-U-NA20	40'-0"	(6) 7/8" COAX	(2) 6X24 HCS 4AWG 20M	4480 B71+B85 4460 B25+B86	190°	190°
B2	-	L2500/N2500	ERICSSON AIR6449 B41	48'-0"			-	190°	190°
C1	U1900/L2100/G1900	L700/L600/N600/L2100/L1900/G1900/U1900	RFS APXVAALL24_43-U-NA20	40'-0"			4480 B71+B85 4460 B25+B86	290°	290°
C2	-	L2500/N2500	ERICSSON AIR6449 B41	48'-0"			-	290°	290°

4 ANTENNA SCHEDULE
SCALE: NOT TO SCALE

T-Mobile
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200 SPECTRUM CENTER DRIVE,
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3450 N HIGLEY RD - SUITE 102,
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T-MOBILE SITE NUMBER:
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BU #: 827264

3027 ALHAMBRA DR.
CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE

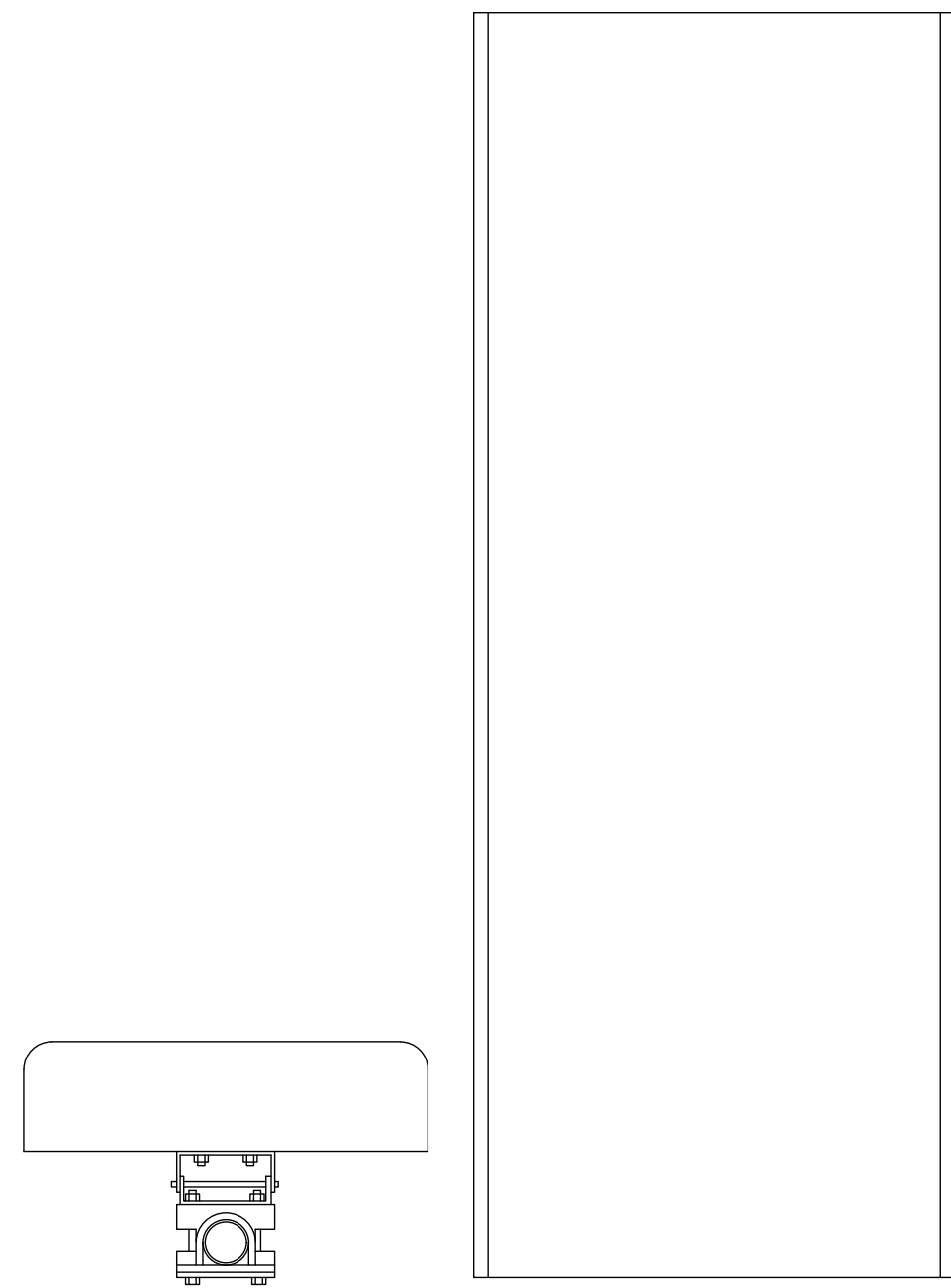
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C	05/03/22	MK	SOW CHANGE	CW
D	06/08/22	AK	CLIENT REVISIONS	CW
0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD

REGISTERED PROFESSIONAL ENGINEER
TIM ALEXANDER
No. E18344
Exp. 3/31/2024
SIGNED, 20 JUN 2022

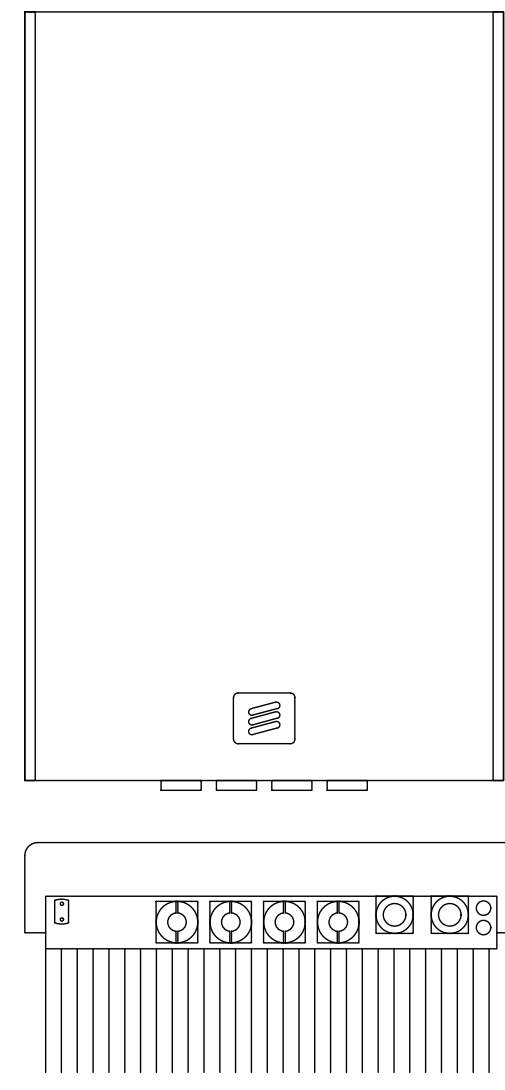
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SHEET NUMBER: **C-5** REVISION: **0**



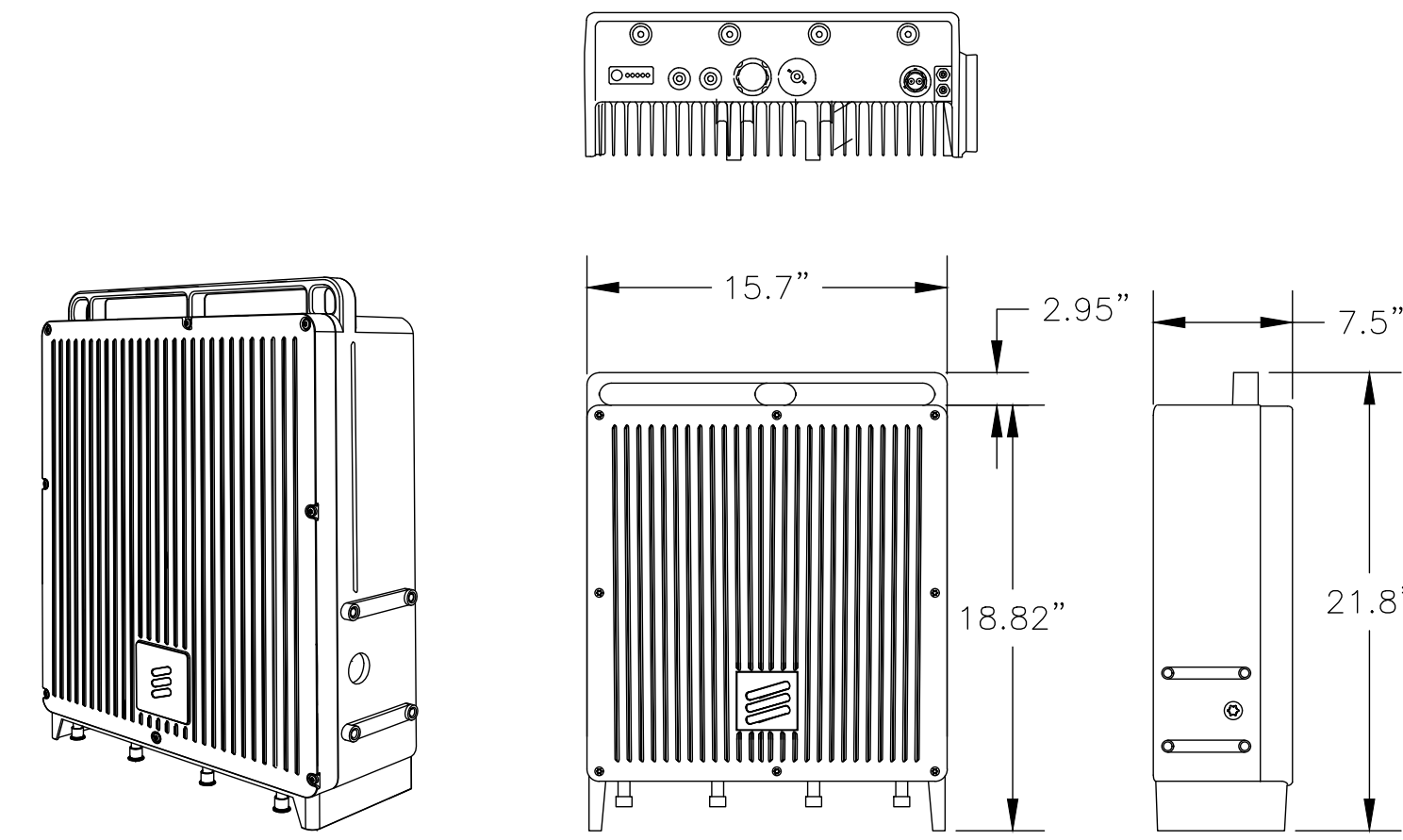
RFS - APXVAALL24_43-U-NA20
 WEIGHT (WITHOUT MOUNTING HARDWARE): 119.0 LBS
 SIZE (HxWxD): 95.9x24.0x8.9 IN.

1 RFS - APXVAALL24_43-U-NA20
 SCALE: NOT TO SCALE



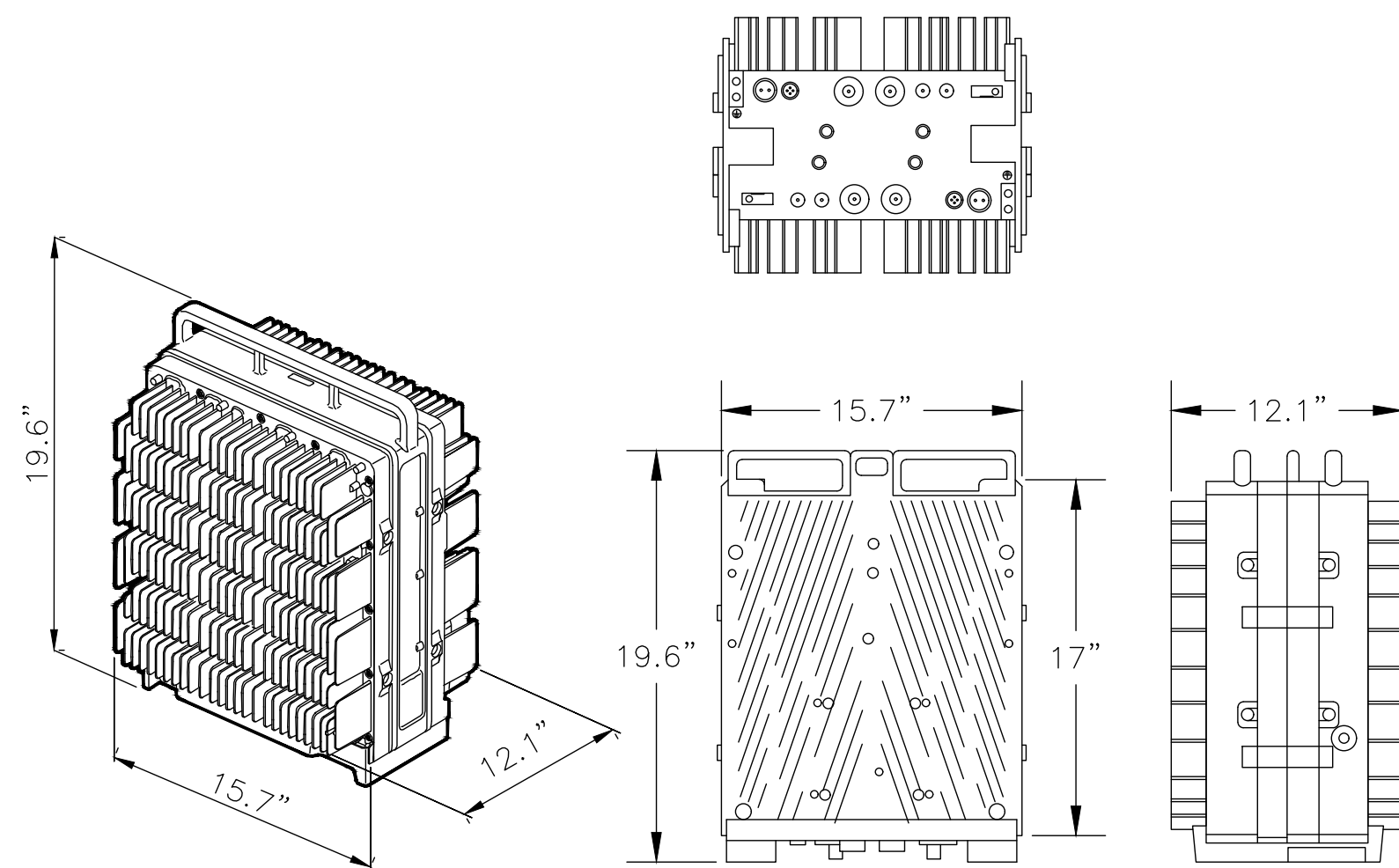
ERICSSON - AIR 6449 B41
 ANTENNA
 WEIGHT: 114.63 LBS
 SIZE (HXWXD): 33.11X20.51X8.54 IN.

2 ERICSSON - AIR 6449 B41
 SCALE: NOT TO SCALE



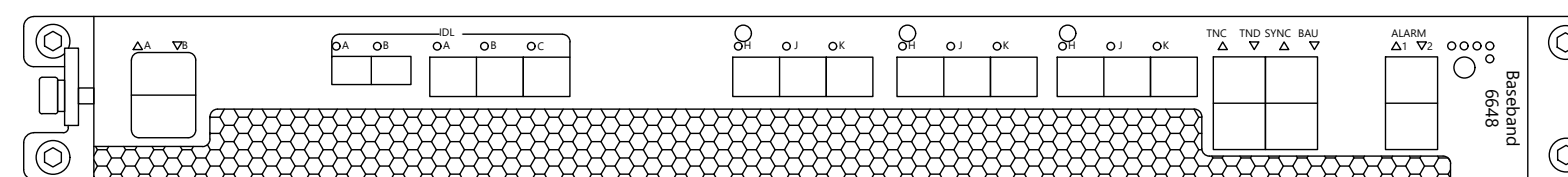
ERICSSON 4480 B71+B85
 21.8" X 15.7" X 7.5"
 WEIGHT: 77LBS

3 ERICSSON - RADIO 4480 B71+B85
 SCALE: NOT TO SCALE



ERICSSON 4460 B25+B66
 19.6" X 15.7" X 12.1"
 WEIGHT: 109LBS

4 ERICSSON - RADIO 4460 B25+B66
 SCALE: NOT TO SCALE



ERICSSON BASEBAND UNIT 6648
 DC POWER SUPPLY
 NOMINAL VOLTAGE: -48VDC
 TEMPERATURE: 0 TO + 55 DEG C
 DIMENSION: 19" W X 13.8"D
 WEIGHT: 14.3 lbs

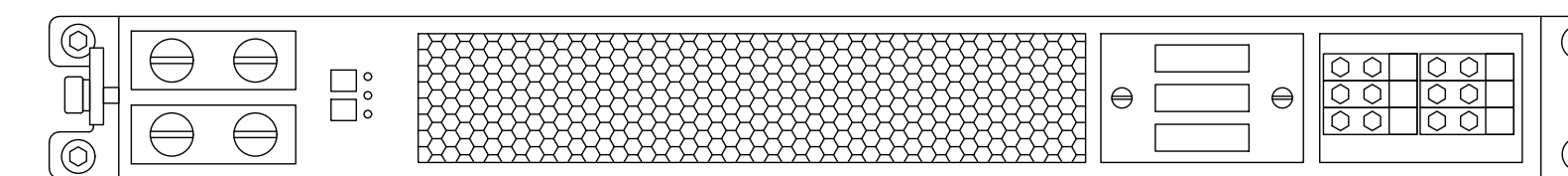
15 CPRI PORTS
 MAXIMUM OF 24 CELLS (18 WITH NB-IOT)
 2 OPTICAL (1/10Gbps)/2 ELECTRICAL (1Gbps) PORTS

5 BB 6648 BASEBAND DETAIL
 SCALE: NOT TO SCALE

PSU 4813
 VOLTAGE BOOSTER

DC POWER SUPPLY
 NOMINAL VOLTAGE: -38VDC
 TEMPERATURE: -40°C TO + 60° C
 DIMENSION: 19" W X 13"D

TOTAL OUTPUT POWER 6000 WATTS (2000 W/PORT)



6 PSU 4813 vR2A (KIT) DETAIL
 SCALE: NOT TO SCALE

T-Mobile

1755 CREEKSIDE OAKS DR. SUITE 190
 SACRAMENTO, CA 95833

CROWN CASTLE

200 SPECTRUM CENTER DRIVE,
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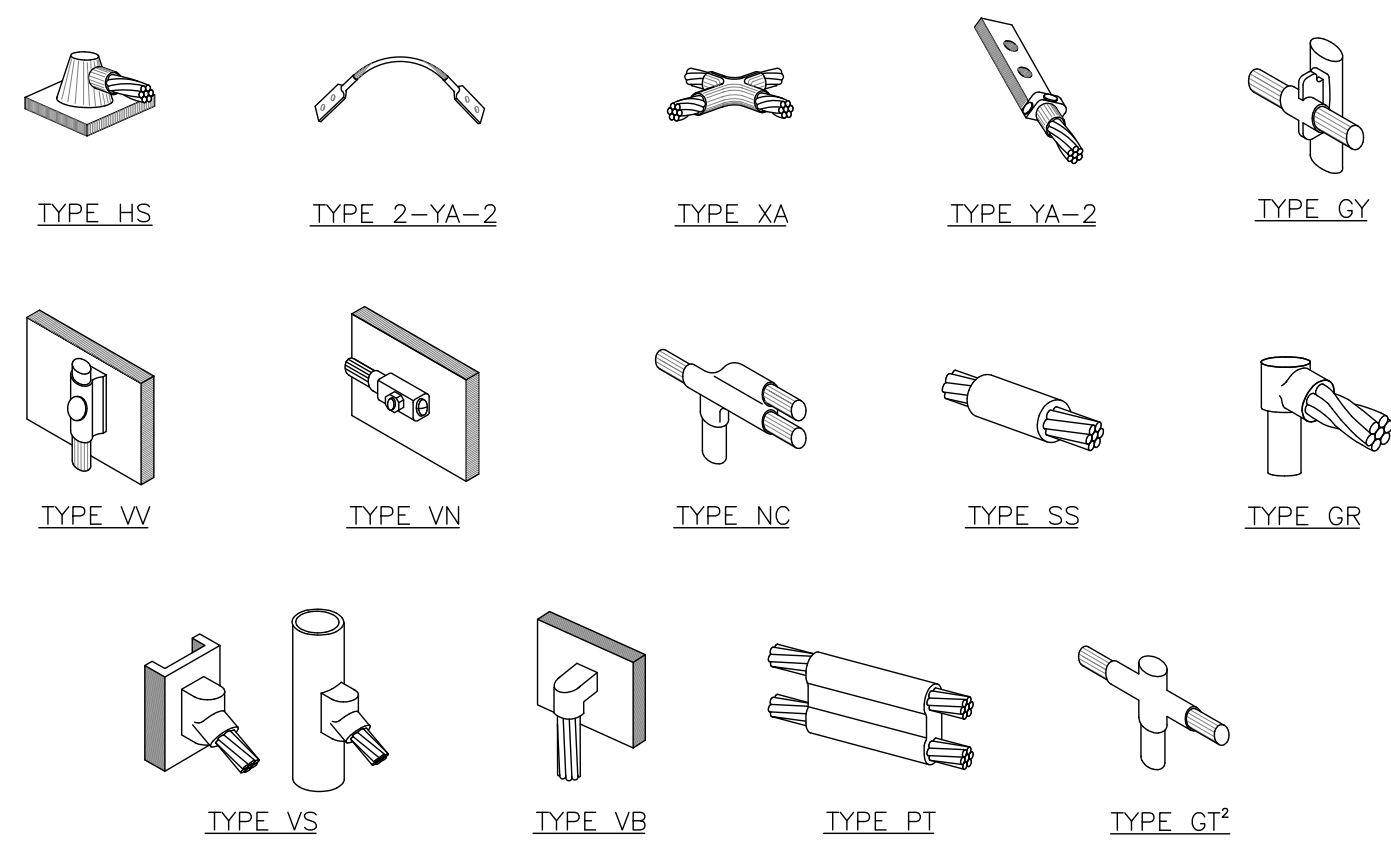
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SHEET NUMBER:

C-6

REVISION:

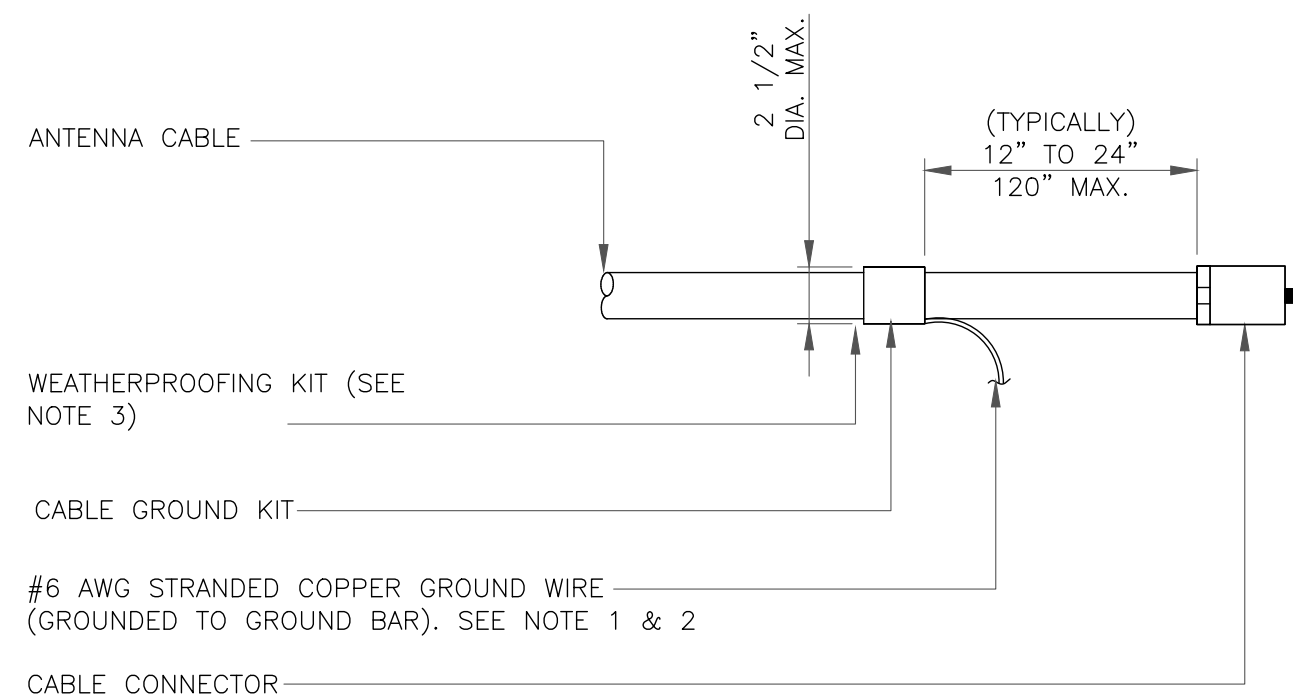
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NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

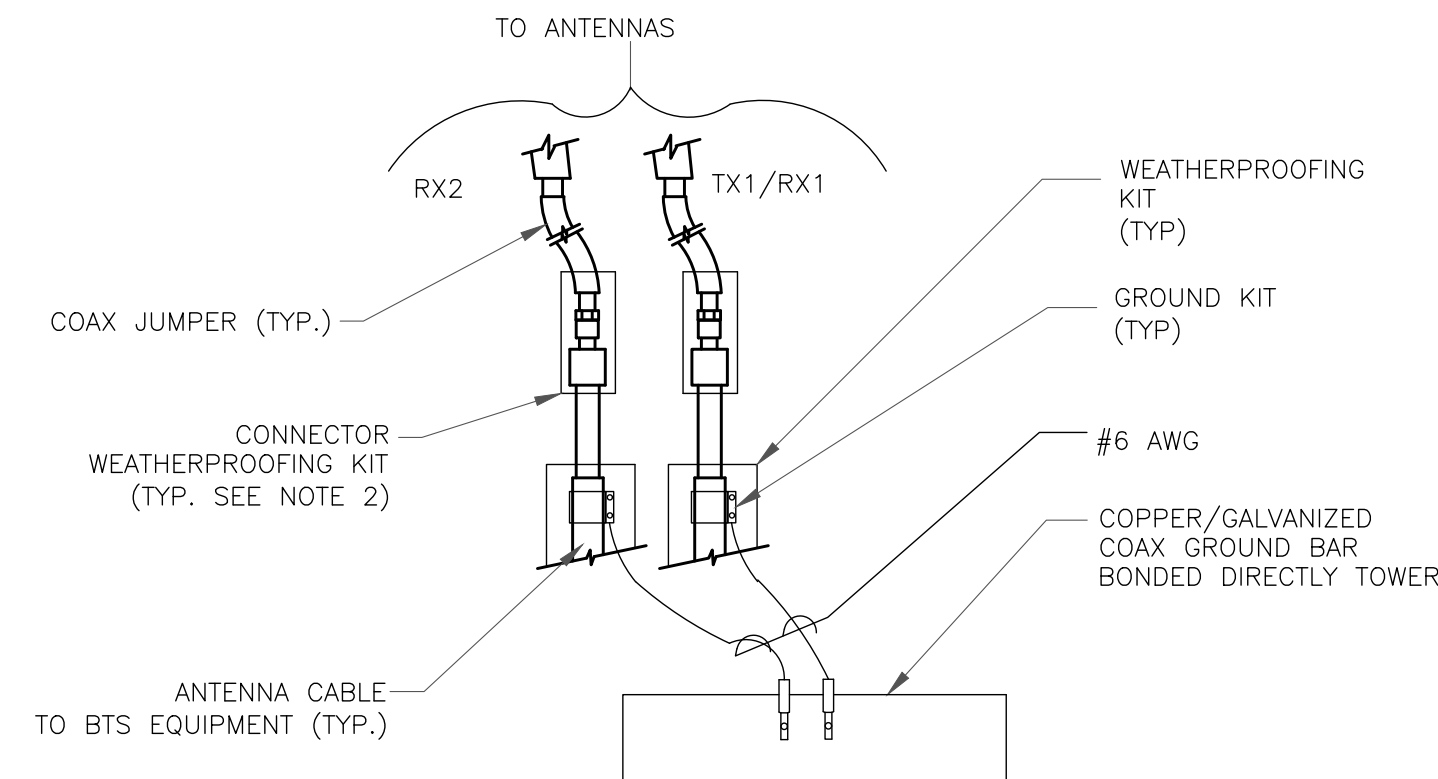
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

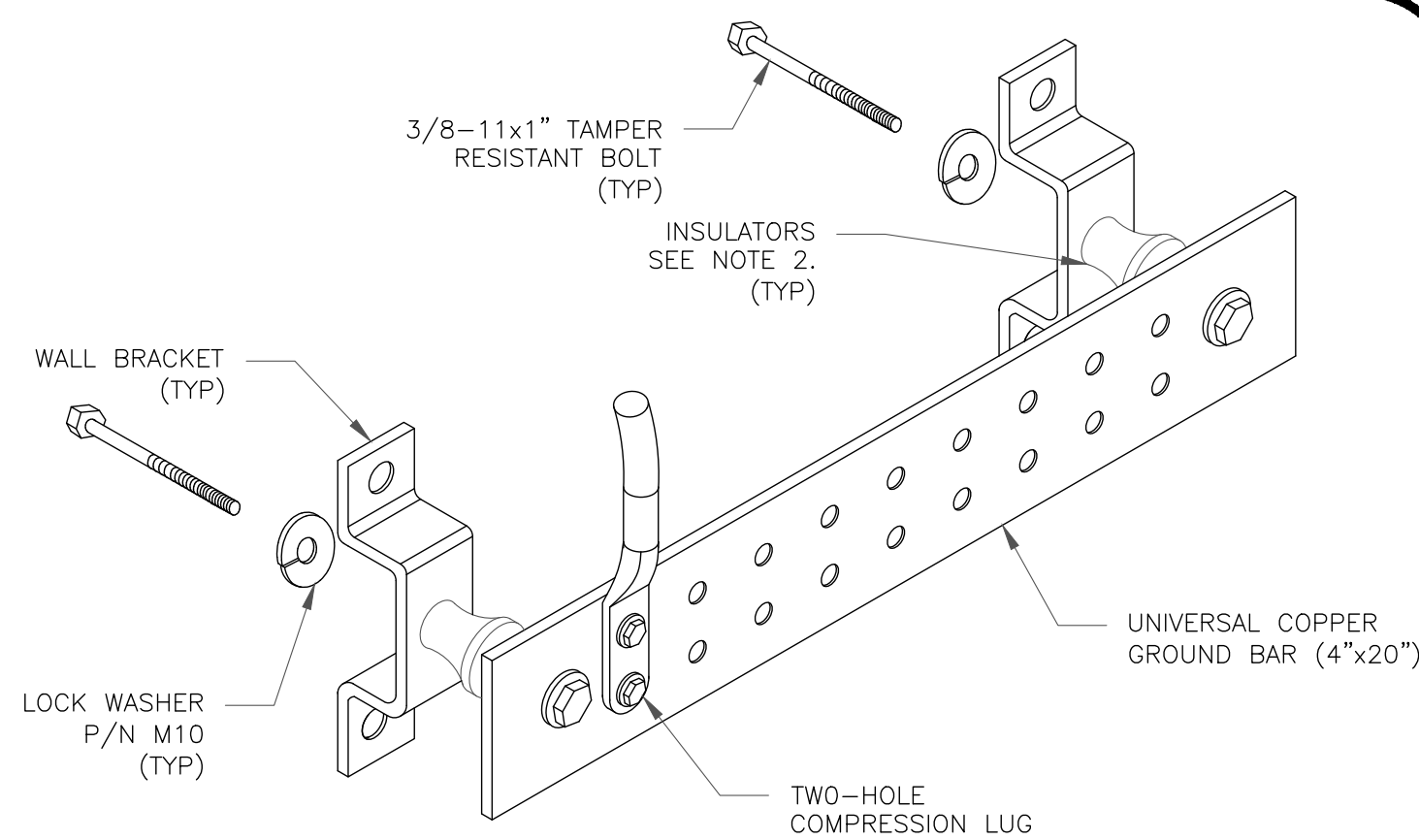
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

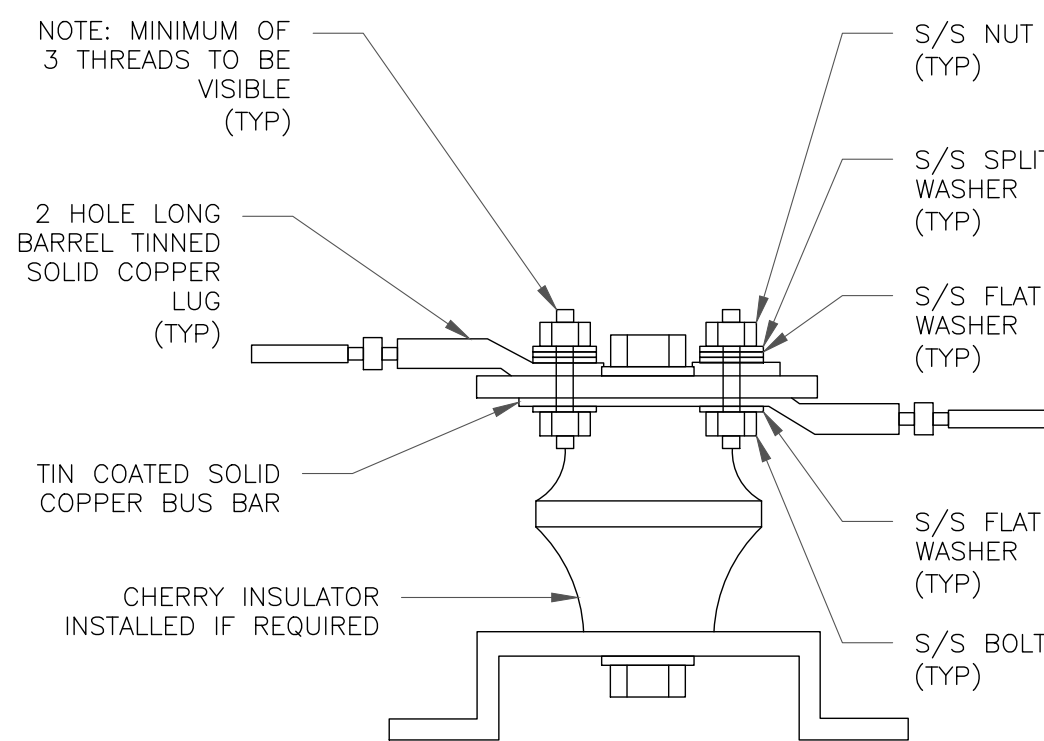
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

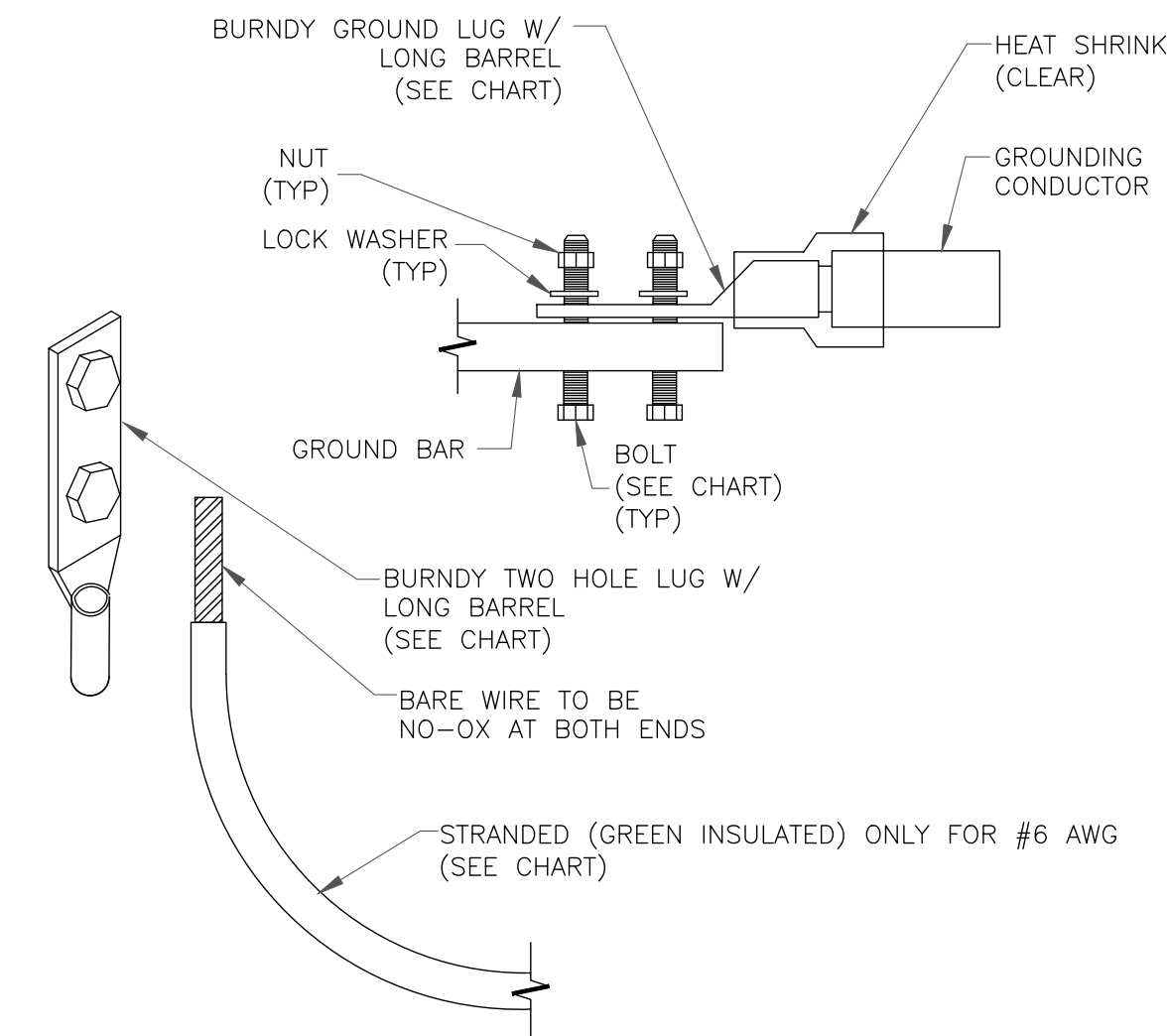
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

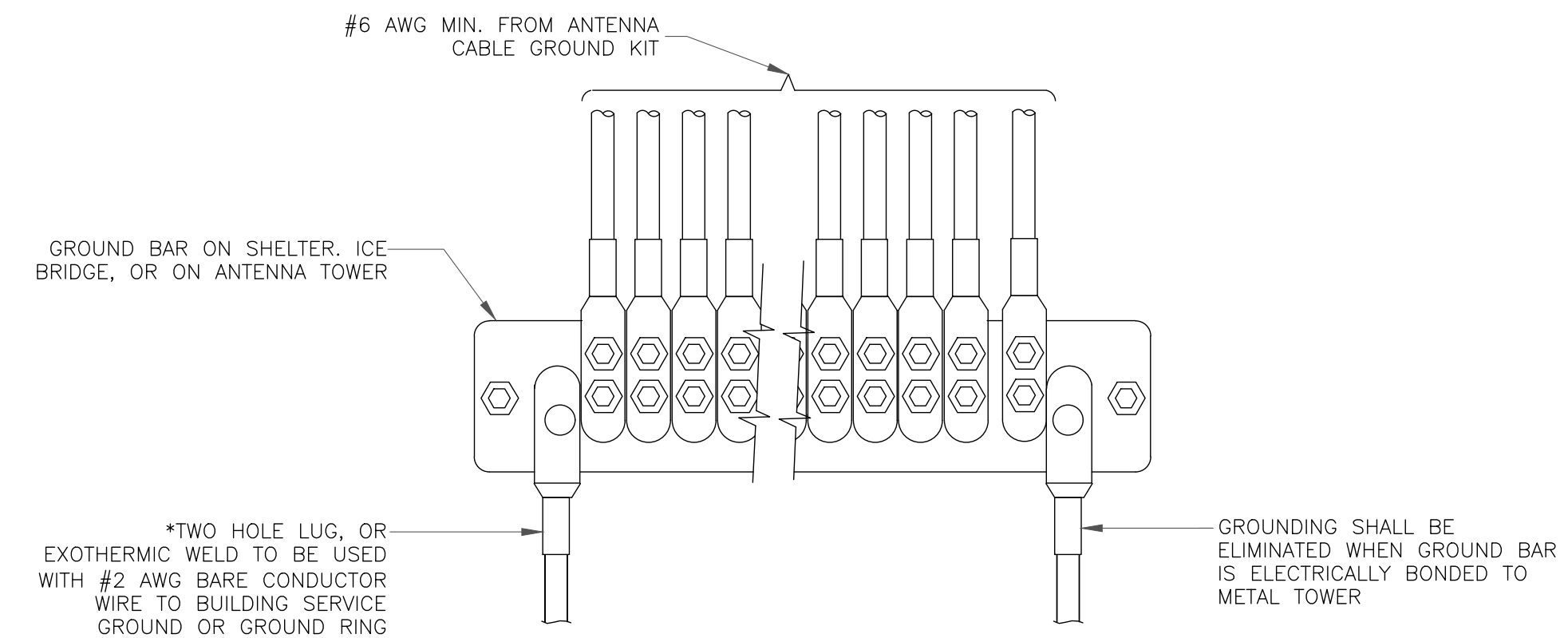
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



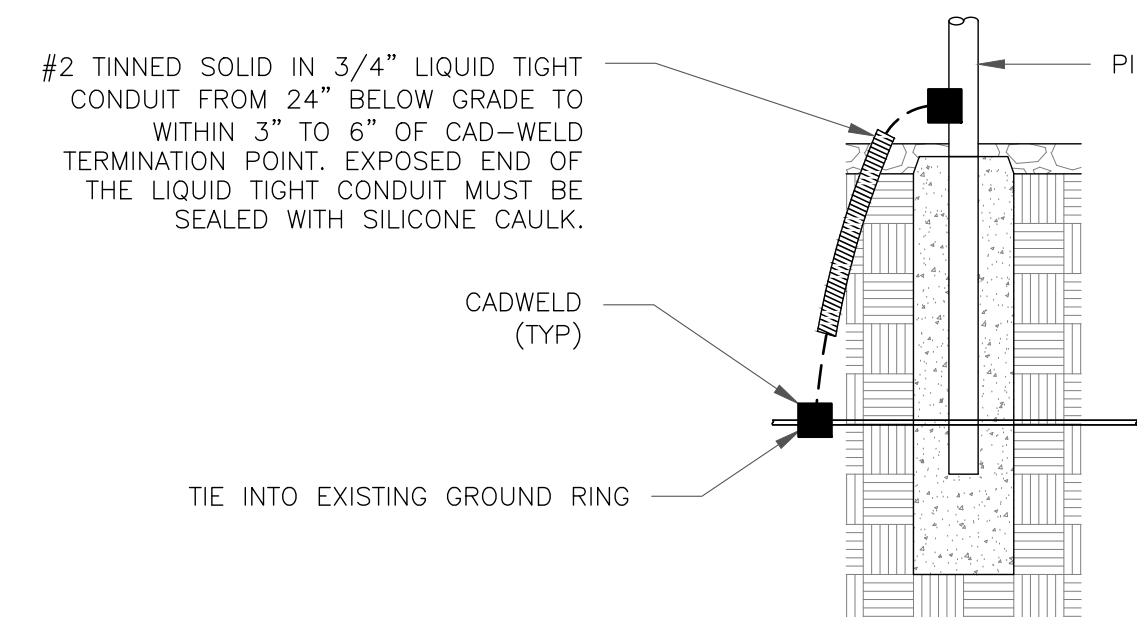
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

T-Mobile
1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833

CROWN CASTLE
200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

T-MOBILE SITE NUMBER:
SC09948A

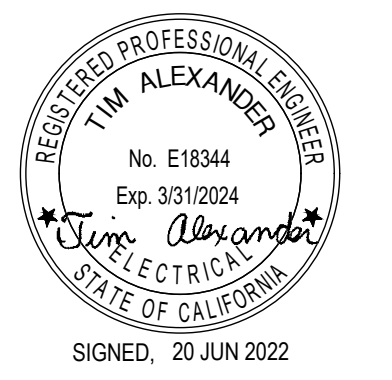
BU #: 827264

3027 ALHAMBRA DR.
CAMERON PARK, CA 95682

EXISTING 50'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRAWN	DESCRIPTION	Q.A.
A	01/25/22	NP	PRELIMINARY	CW
B	02/03/22	NP	CLIENT REVISIONS	CW
C	05/03/22	MK	SOW CHANGE	CW
D	06/08/22	AK	CLIENT REVISIONS	CW
0	06/17/22	MK	SUBMITTAL FOR PERMIT	JD



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: **G-3** REVISION: **0**

Existing View



Proposed View



PREPARED BY:  **TELCYTE**
INFRASTRUCTURE SERVICES

This photo simulation is for illustration purposes only.

CUP-R22-0031 Alhambra Drive Monopine Exhibit G: Elevations

Existing View



Proposed View



CUP-R22-0031 Alhambra Drive Monopine
Exhibit G: Elevations
This photo simulation is for illustration purposes only.

PREPARED BY:  **TEL CYTE**
INFRASTRUCTURE SERVICES

Existing View



Proposed View



CUP-R22-0031 Alhambra Drive Monopine
Exhibit G: Elevations
This photo simulation is for illustration purposes only.

PREPARED BY:  **TELCTE**
INFRASTRUCTURE SERVICES

**Crown Castle on behalf of T-Mobile
Site BU Number – 827264
Application ID – 578251
Site Name – SA948 Cameron Park
Site Compliance Report**

**3027 Alhambra Drive
Cameron Park, CA 95682**

Latitude: N38-41-15.60
Longitude: W120-59-20.30
Structure Type: Stealth Monopole

Report generated date: April 5, 2022
Report by: Leo Romero
Customer Contact: Belinda Livingston

**T-Mobile will be compliant upon completion
of the remediation identified in Section 2.2.**

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sealed 05apr2022



**Crown Castle on behalf of T-Mobile
SA948 Cameron Park - 827264
Radio Frequency (RF) Site Compliance Report**



3027 Alhambra Drive, Cameron Park, CA 95682

CUP-R22-0031 Alhambra Drive Monopine Exhibit H: Radio Frequency (RF) Report

8618 Westwood Center Drive • Suite 315 • Vienna, VA 22182
703.276.1100 • info@sitesafe.com



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1 Executive Summary

Crown Castle on behalf of T-Mobile has contracted with Site Safe, LLC (Sitesafe), an independent Radio Frequency (RF) regulatory and engineering consulting firm, to determine whether the proposed communications site, 827264 - SA948 Cameron Park, located at 3027 Alhambra Drive, Cameron Park, CA, is in compliance with the Federal Communications Commission (FCC) Rules and Regulations for RF exposure.

This report contains a detailed summary of the RF environment at the site including:

- Diagram of the site
- Inventory of the make / model of all antennas
- Theoretical MPE based on modeling

This report addresses exposure to radio frequency electromagnetic fields in accordance with the FCC Rules and Regulations for all individuals, classified in two groups, "Occupational or Controlled" and "General Public or Uncontrolled."

T-Mobile will be compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, **upon implementation of the proposed remediation**. The corrective actions needed to make this site compliant are located in Section 2.2.

T-Mobile proposes to make modifications to an existing site. The proposed antennas are noted as "Proposed" in the antenna table under Section 4.

This document and the conclusions herein are based on the information provided by Crown Castle on behalf of T-Mobile.

If you have any questions regarding RF safety and regulatory compliance, please do not hesitate to contact Sitesafe's Customer Support Department at (703) 276-1100.



2 Site Compliance

2.1 Site Compliance Statement

Upon evaluation of the cumulative RF exposure levels from all operators at this site, Sitesafe has determined that:

T-Mobile will be compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, **upon implementation of the proposed remediation**. The corrective actions needed to make this site compliant are located in Section 2.2.

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and/or the level of restricted access to the antennas at the site. Any deviation from the proposed T-Mobile deployment plan could result in the site being rendered non-compliant upon further evaluation.

2.2 Actions for Site Compliance

Based on common industry practice and our understanding of FCC and OSHA requirements, this section provides a statement of recommendations for site compliance. Additional RF alert signage recommendations have been proposed based on theoretical analysis of MPE levels. Where applicable, barriers can consist of locked doors, fencing, railing, rope, chain, paint striping or tape, combined with RF alert signage.

T-Mobile will be compliant if the following changes are implemented:

Base of Stealth Monopole

Ensure that a Warning sign is installed replacing the existing Caution sign.

Note: Ensure all existing signage documented in this report still exist on site unless otherwise indicated.



3 Analysis

3.1 RF Exposure Diagram

The RF diagram(s) below display theoretical percentage of the Maximum Permissible Exposure for all systems at the site. These diagrams use modeling as prescribed in OET Bulletin 65 and assumptions detailed in Appendix B.

The key at the bottom of each diagram indicates if percentages displayed are referenced to FCC **General Public** Maximum Permissible Exposure (MPE) limits. Color coding on the diagram is as follows:



This table displays the maximum theoretical percentage of the FCC's General Public MPE limits:

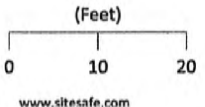
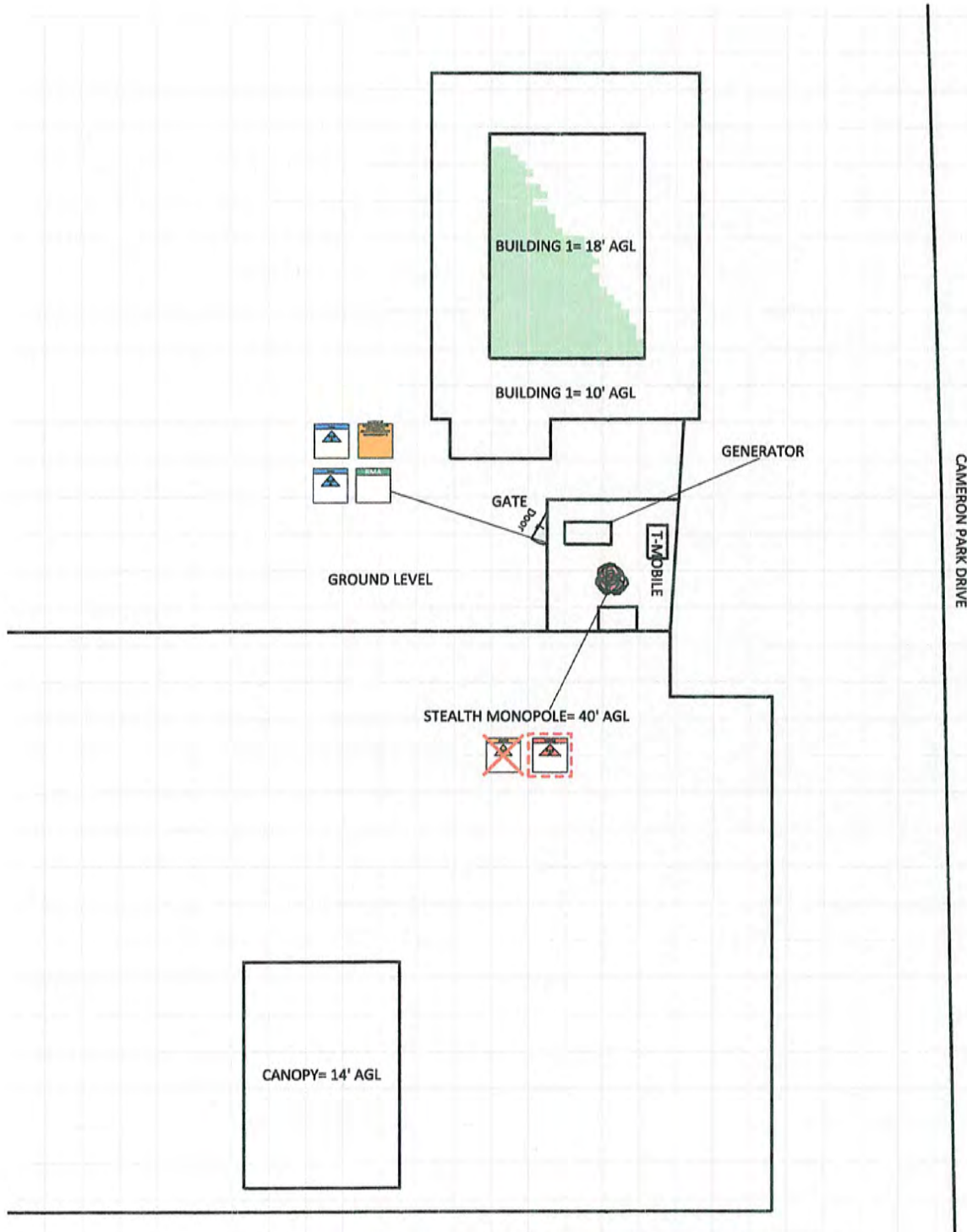
Exposure Type:	General Public Levels:		
	Maximum	Spatial Average	Spatial Average
Reference Level:	Antenna	Top of Building 1	Ground
T-Mobile:	80,120.0%	19.0%	<1%
Composite:	80,120.0%	19.0%	<1%

Note: On the diagrams shown below, each level is marked with a height. For all diagrams that are marked as *Spatially Averaged*, the modeling program will spatially average the exposure within the area six feet above each set level. This provides an accurate spatial average of the percentage of the FCC's MPE limits within an accessible area.

In the RF exposure simulations below, all heights are reflected with respect to ground level. Each different area, rooftop, or platform level is labeled with its height relative to the main site level. Exposure is calculated appropriately based on the relative height and location of that area to all antennas. The analyzed elevations in the RF exposure simulations are as follows:

- Ground Level = 0'
- Building 1 = 10' and 18'
- Canopy = 14'

RF Exposure Simulation For: SA948 Cameron Park Composite View

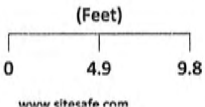
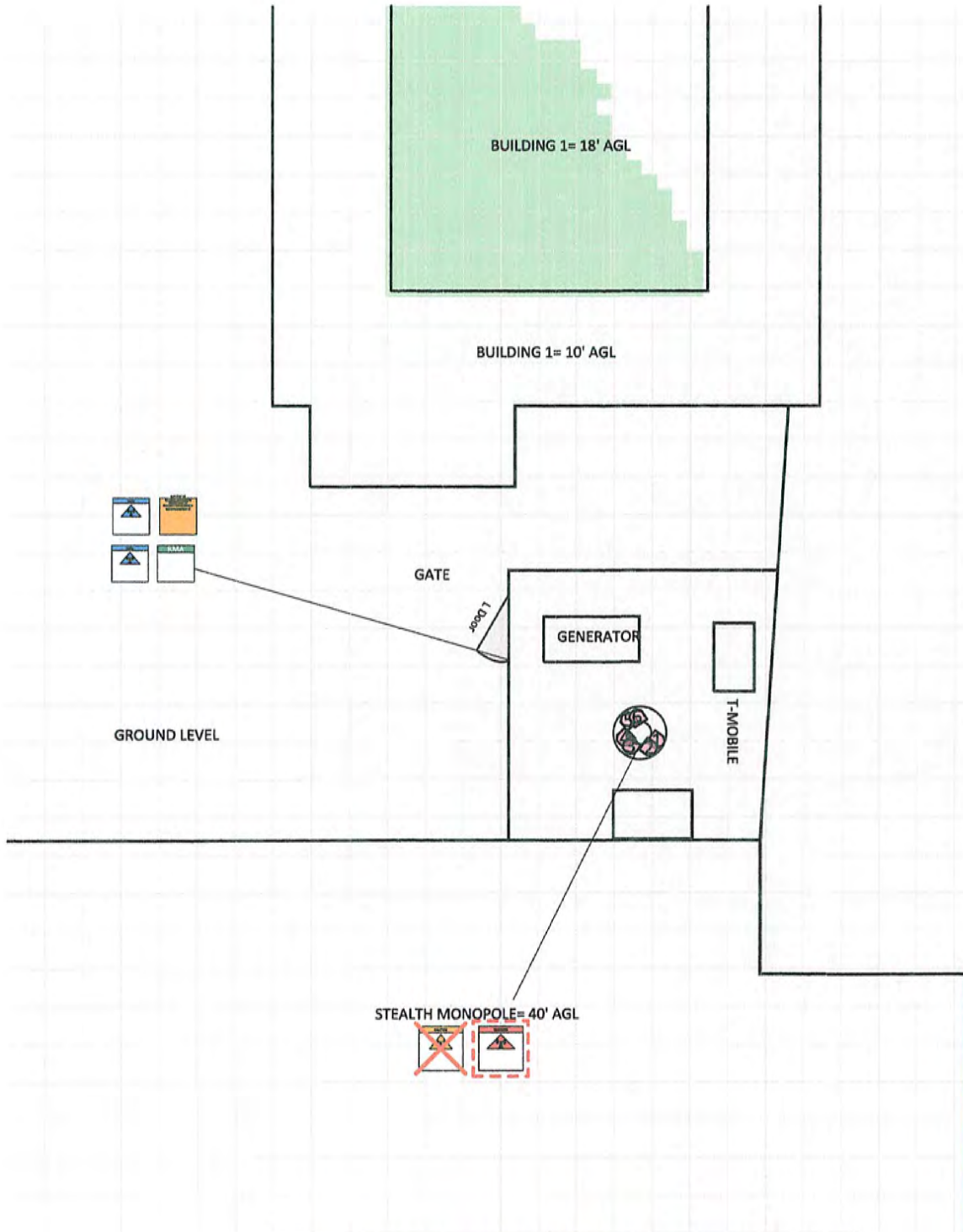


% of FCC Public Exposure Limit					
0-5	5-100	100-500	500-5000	5000+	
Barrier Signage Legend					
Existing Barrier	Proposed Barrier/Sign		Remove Barrier/Sign		

CUP-R22-0031 Alhambra Drive Monopine Exhibit H: Radio Frequency (RF) Report

Sitesafe DET-65 Model
Near Field Boundary:
1.5 * Aperture
Reflection Factor: 1

RF Exposure Simulation For: SA948 Cameron Park Detailed View

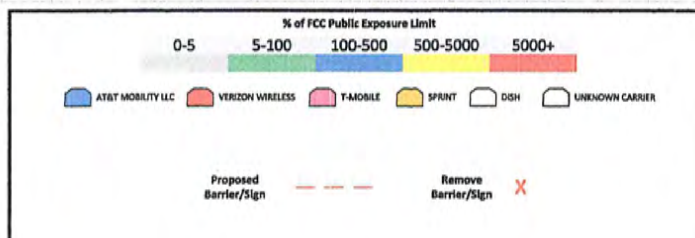
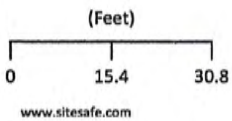
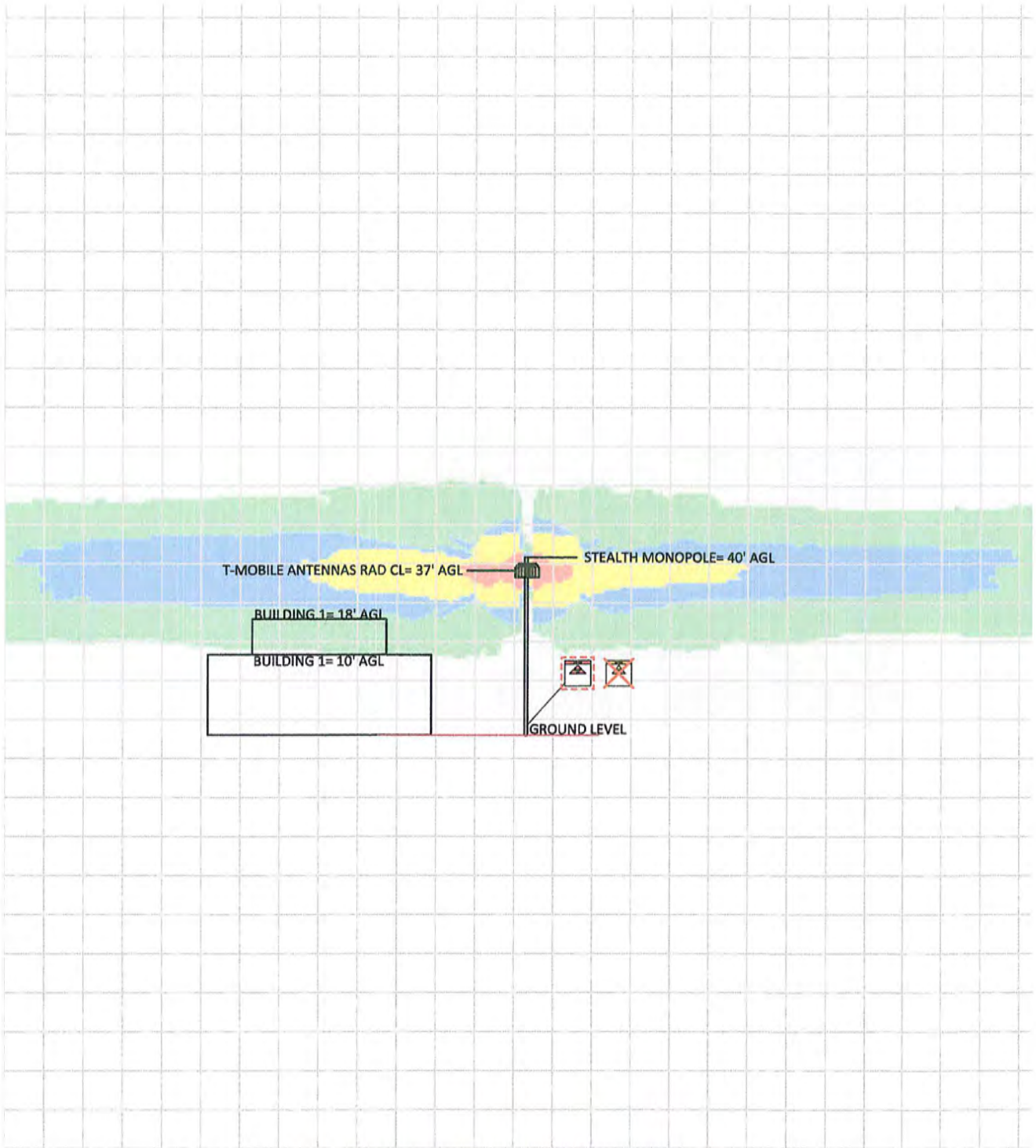


% of FCC Public Exposure Limit				
0-5	5-100	100-500	500-5000	5000+
AT&T MOBILITY LLC	VERIZON WIRELESS	T-MOBILE	SPRINT	DISH
Barrier Signage Legend				
No-sign	Notice	Caution	Warning	
Existing Barrier	Proposed Barrier/Sign	Remove Barrier/Sign		

CUP-R22-0031 Alhambra Drive Monopine Exhibit H: Radio Frequency (RF) Report

Sitesafe OET-65 Model
Near Field Boundary:
1.5 * Aperture
Reflection Factor: 1

RF Exposure Simulation For: SA948 Cameron Park Elevation View



CUP-R22-0031 Alhambra Drive Monopine Exhibit H: Radio Frequency (RF) Report

Sitesafe OET-65 Model
Near Field Boundary:
1.5 * Aperture
Reflection Factor: 1



4 Antenna Inventory

The Antenna Inventory shows all transmitting antennas at the site. This inventory was provided by the customer and was utilized by Sitesafe to perform theoretical modeling of RF exposure. The inventory coincides with the site diagrams in this report, identifying each antenna's location at 827264 - SA948 Cameron Park. The antenna information collected includes the following information:

- Licensee or wireless operator name
- Frequency or frequency band
- Transmitter power – Transmitter Power Output ("TPO"), Effective Radiated Power ("ERP"), or Equivalent Isotropic Radiated Power ("EIRP")
- Antenna manufacturer make, model, and gain



The following antenna inventory was provided by the customer and was utilized to create the site model diagrams:

Ant ID	Operator	Antenna Make and Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	Power	Power Type	Power Units	TX Count	Misc Loss	Total ERP (Watts)	Z (ft) (AGL)	MDT (Deg)	EDT (Deg)
1	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	LTE	90	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
1	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	5G	90	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
1	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	700	LTE	90	63.7	8	13.75	200.00	TPO	Watt	1	0.00	4742.75	37	0	0
1	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	1900	LTE	90	64.9	8	15.25	280.00	TPO	Watt	1	0.00	9379.03	37	0	0
1	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	2100	LTE	90	59.4	8	16.45	280.00	TPO	Watt	1	0.00	12363.97	37	0	0
2	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	LTE	90	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0
2	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	5G	90	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0
3	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	LTE	190	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
3	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	5G	190	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
3	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	700	LTE	190	63.7	8	13.75	200.00	TPO	Watt	1	0.00	4742.75	37	0	0
3	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	1900	LTE	190	64.9	8	15.25	280.00	TPO	Watt	1	0.00	9379.03	37	0	0
3	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	2100	LTE	190	59.4	8	16.45	280.00	TPO	Watt	1	0.00	12363.97	37	0	0
4	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	LTE	190	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0
4	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	5G	190	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0
5	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	LTE	290	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
5	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	600	5G	290	62.8	8	13.35	100.00	TPO	Watt	1	0.00	2162.72	37	0	0
5	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	700	LTE	290	63.7	8	13.75	200.00	TPO	Watt	1	0.00	4742.75	37	0	0
5	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	1900	LTE	290	64.9	8	15.25	280.00	TPO	Watt	1	0.00	9379.03	37	0	0



Ant ID	Operator	Antenna Make and Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	Power	Power Type	Power Units	TX Count	Misc Loss	Total ERP (Watts)	Z (ft) (AGL)	MDT (Deg)	EDT (Deg)
5	T-MOBILE (Proposed)	RFS APXVAALL24_43-U-NA20	Panel	2100	LTE	290	59.4	8	16.45	280.00	TPO	Watt	1	0.00	12363.97	37	0	0
6	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	LTE	290	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0
6	T-MOBILE (Proposed)	Ericsson AIR6449	Panel	2500	5G	290	12.5	2.8	22.65	150.00	TPO	Watt	1	0.00	27611.58	37	0	0

Note: The Z reference indicates antenna height above ground level (AGL). ERP values provided by the client and used in the modeling may be greater than are currently deployed. For additional modeling information, refer to Appendix B. Proposed equipment is tagged as *(Proposed)* under *Operator* or *Antenna Make and Model*.



5 Engineer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms:

That I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I, Michael A McGuire, am currently and actively licensed to provide (in this state/jurisdiction as indicated within the professional electrical engineering seal on the cover of this document) professional electrical engineering services, as an employee of Hurricane Hill Development Company, PLLC, a duly authorized/registered engineering firm (in this state, as applicable) on behalf of Site Safe, LLC; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Leo Romero.

April 5, 2022



Appendix A – Statement of Limiting Conditions

Sitesafe will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. Sitesafe cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e. mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by T-Mobile, the site manager, or their affiliates, subcontractors or assigns.

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the survey of the subject property or that Sitesafe became aware of during the normal research involved in performing this survey. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by Sitesafe, the physical data will be used.



Appendix B – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has further assumed a 100% duty cycle and maximum radiated power.

The site has been modeled with these assumptions to show the maximum RF energy density. Sitesafe believes this to be a worst-case analysis, based on best available data. Areas modeled to predict exposure greater than 100% of the applicable MPE level may not actually occur but are shown as a worst-case prediction that could be realized real time. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Thus, at any time, if power density measurements were made, we believe the real-time measurements would indicate levels below those depicted in the RF exposure diagram(s) in this report. By modeling in this way, Sitesafe has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.



Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible for taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

Gain (of an antenna) – The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power density at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. Gain may be considered for a specified polarization. Gain may be referenced to an isotropic antenna (dBi) or a half-wave dipole (dBd) antenna.

General Population/Uncontrolled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are *unaware* of the potential for exposure and who have no control over their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.



Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are **aware** of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC's Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

OSHA (Occupational Safety and Health Administration) – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA's role is to promote the safety and health of America's working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency Exposure or Electromagnetic Fields – Electromagnetic waves that are propagated from antennas through space.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy a 6-foot tall human body will absorb while present in an electromagnetic field of energy.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.



Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

The FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Specific regulations regarding this topic are listed in Part 1, Subpart I, of Title 47 in the Code of Federal Regulations. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC and OSHA Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations. Individual licensees that contribute less than 5% MPE to any total area out of compliance are not responsible for corrective actions.

OSHA has adopted and enforces the FCC's exposure guidelines. A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- are exposed to RF energy as a consequence of their employment;
- have been made aware of the possibility of exposure; and
- can exercise control over their exposure.

OSHA guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF exposure diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

All T-Mobile employees who require access to this site must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

Appendix D – General Safety Recommendations

The following are *general recommendations* appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site (or the area indicated to be in excess of General Public MPE) should wear a personal protective monitor (PPM), successfully complete proper RF Safety Awareness training, and have and be trained in the use of appropriate personal protective equipment.

2. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

3. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- adding new antennas that may have been located on the site
- removing of any existing antennas
- changes in the radiating power or number of RF emitters

4. Post the appropriate **NOTICE**, **CAUTION**, or **WARNING** sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in Section 3.1 to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. In addition to RF Advisory Signage, a RF Guideline Signage is recommended to be posted at the main site access point(s). The signs below are examples of signs meeting FCC guidelines.



5. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

6. For a General Public environment the five color levels identified in this analysis can be interpreted in the following manner:

- Gray represents areas predicted to be at 5% or less of the General Public MPE limits. *The General Public can access these areas with no restrictions.*



- Green represents areas predicted to be between 5% and 100% of the General Public MPE limits. *The General Public can access these areas with no restrictions.*
- Blue represents areas predicted to be between 100% and 500% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*
- Yellow represents areas predicted to be between 500% and 5000% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*
- Red represents areas predicted to be greater than 5000% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*

7. For an Occupational environment the five color levels identified in this analysis can be interpreted in the following manner:

- Gray represents areas predicted to be at 1% or less of the Occupational MPE limits. *Workers can access these areas with no restrictions.*
- Green represents areas predicted to be between 1% and 20% of the Occupational MPE limits. *Workers can access these areas with no restrictions.*
- Blue represents areas predicted to be between 20% and 100% of the Occupational MPE limits. *Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure.*
- Yellow represents areas predicted to be between 100% and 1000% of the Occupational MPE limits. *Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure. Transmitter power reduction and/or time-averaging may be required.*
- Red represents areas predicted to be greater than 1000% of the Occupational MPE limits. *These areas are not safe for workers to be in for prolonged periods of time. Special procedures must be adhered to, such as lockout/tagout or transmitter power reduction, to minimize worker exposure to EME.*

8. Use of a Personal Protective Monitor (PPM): When working around antennas, Sitesafe strongly recommends the use of a PPM. Wearing a PPM will properly forewarn the individual prior to entering an RF exposure area.

Keep a copy of this report available for all persons who must access the site. They should read this report and be aware of the potential hazards with regards to RF and MPE limits.

Additional Information

Additional RF information is available at the following sites:

<https://www.fcc.gov/general/radio-frequency-safety-0>

<https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

OSHA has additional information available at:

<https://www.osha.gov/SLTC/radiofrequencyradiation/index.html>



Appendix E – Regulatory Basis

FCC Rules and Regulations

In 1996, the Federal Communications Commission (FCC) adopted regulations for evaluating the effects of RF exposure in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 ("OET Bulletin 65"), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled environment" and General Public or "Uncontrolled environment". The General Public limits are generally five times more conservative or restrictive than the Occupational limits. The General Public limits apply to accessible areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

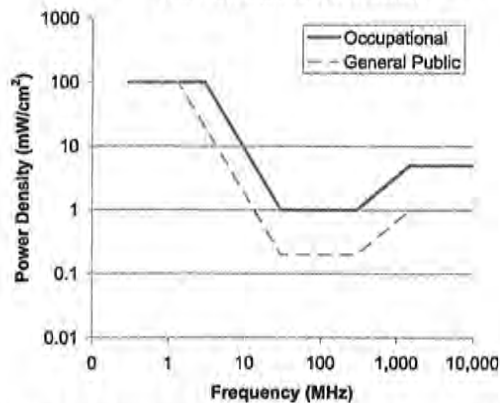
Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF hazard signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF hazard signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:

FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Limits for Occupational/Controlled Exposure (MPE)



Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density



Appendix F – Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a worker's understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet-based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Site RF Exposure Diagram(s): Section 3 of this report contains RF Diagram(s) that outline various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst-case scenario assuming a duty cycle of 100% for each transmitting antenna at full power. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

Alhambra Drive Cell Tower Expansion

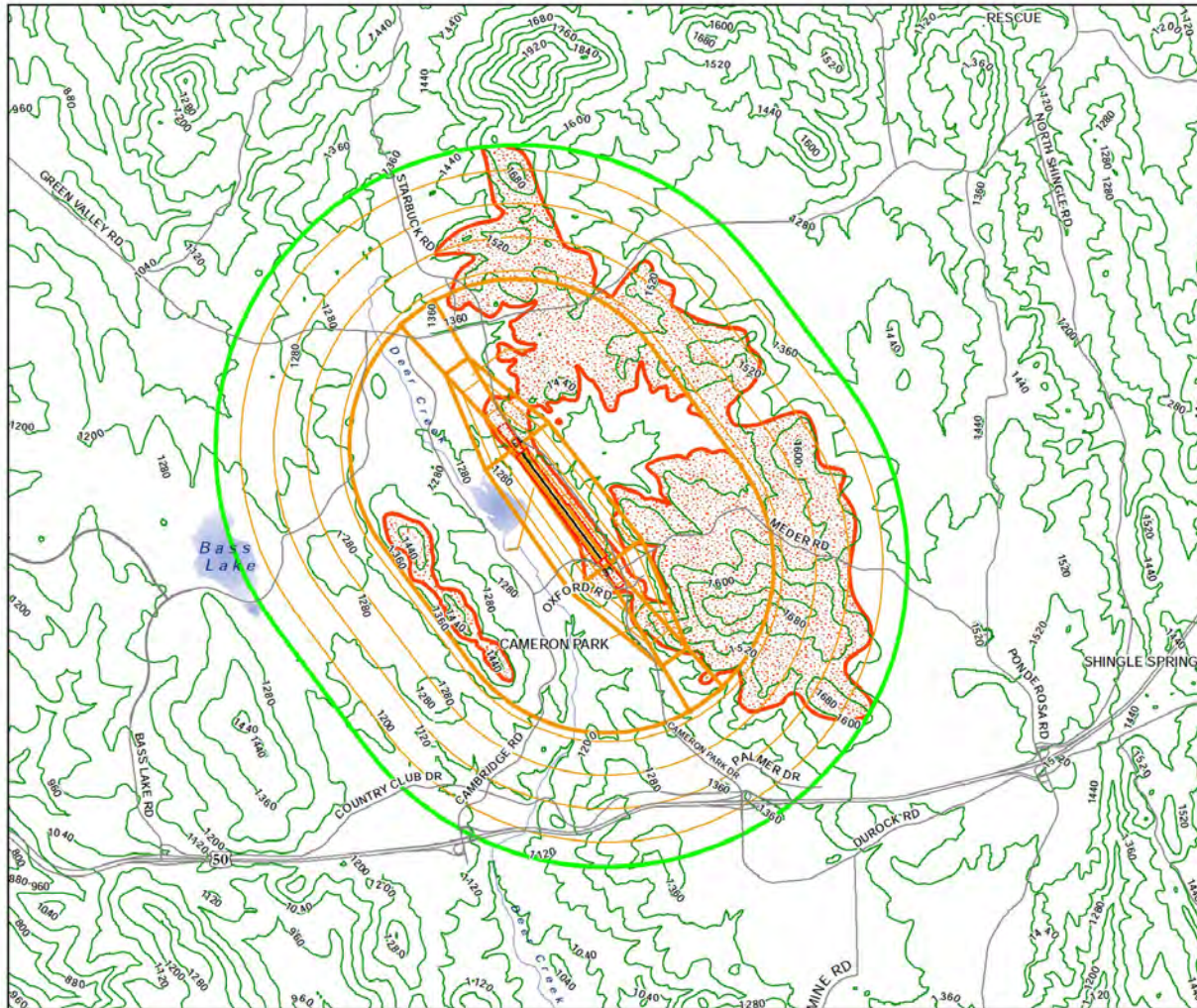
November 07, 2022

Cameron Park Airport District



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings



BACKGROUND DATA: CAMERON AIRPARK AIRPORT AND ENVIRONS CHAPTER 7

**Cameron Airpark Airport
Land Use Compatibility Plan
Part 77
Airspace Surfaces
(June 2012)**

Map Feature Key

- Parcels
- Airport Boundary
- Major Roads
- Airport Runway
- Airport Influence Area

Airspace Factors Key

- Part 77 Surfaces
- High Terrain Areas
- Topographic Contours

Notes

1. Part 77 source: Federal Aviation Regulations Part 77, Safe, efficient Use, And Preservation of the Navigable Airspace.
2. High Terrain Areas consist of locations where ground level is within 35 feet of Part 77 Surface.

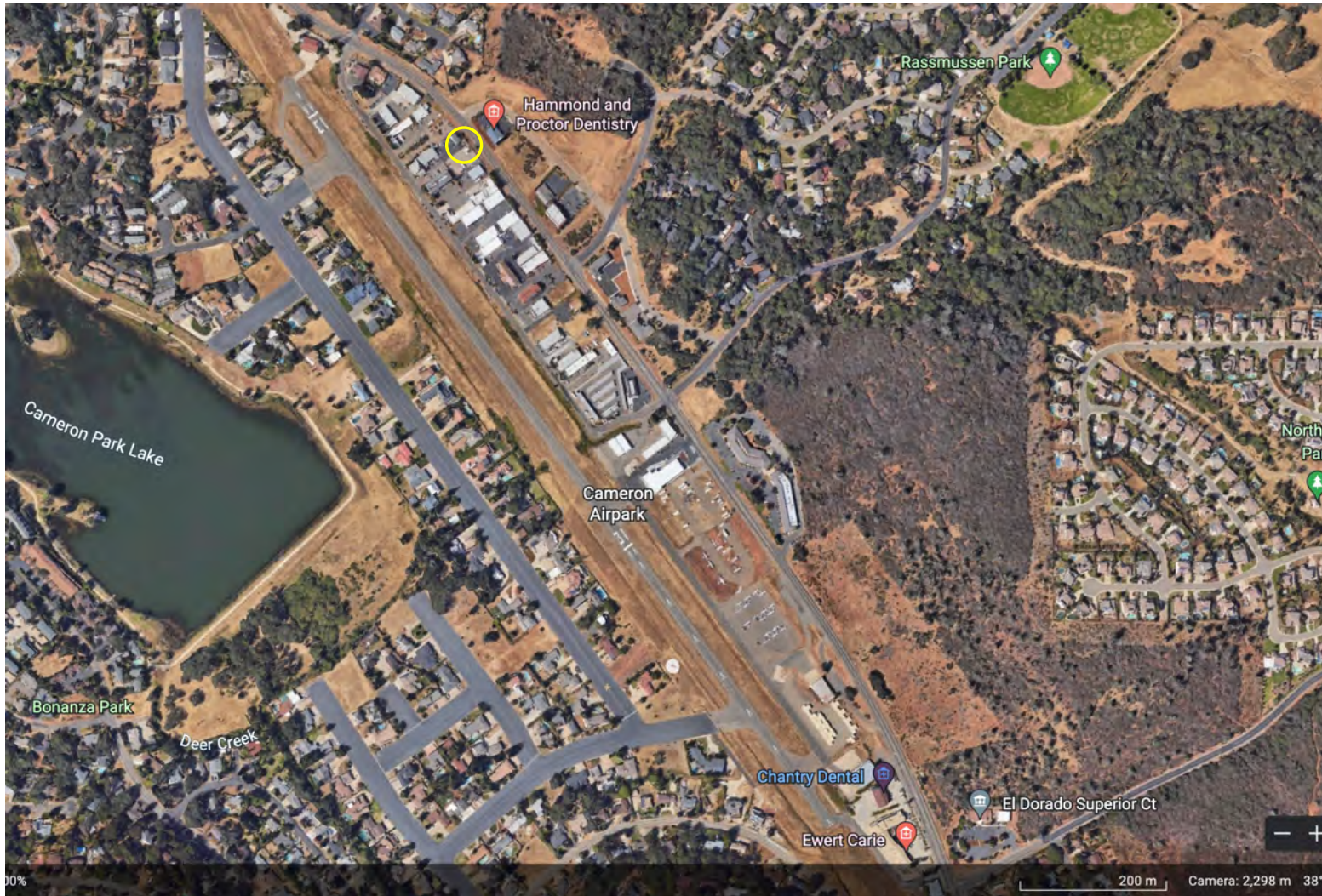
Map Source: El Dorado County Airport Land Use Commission
Base Data Source: El Dorado County

1 inch = 3,000 feet



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

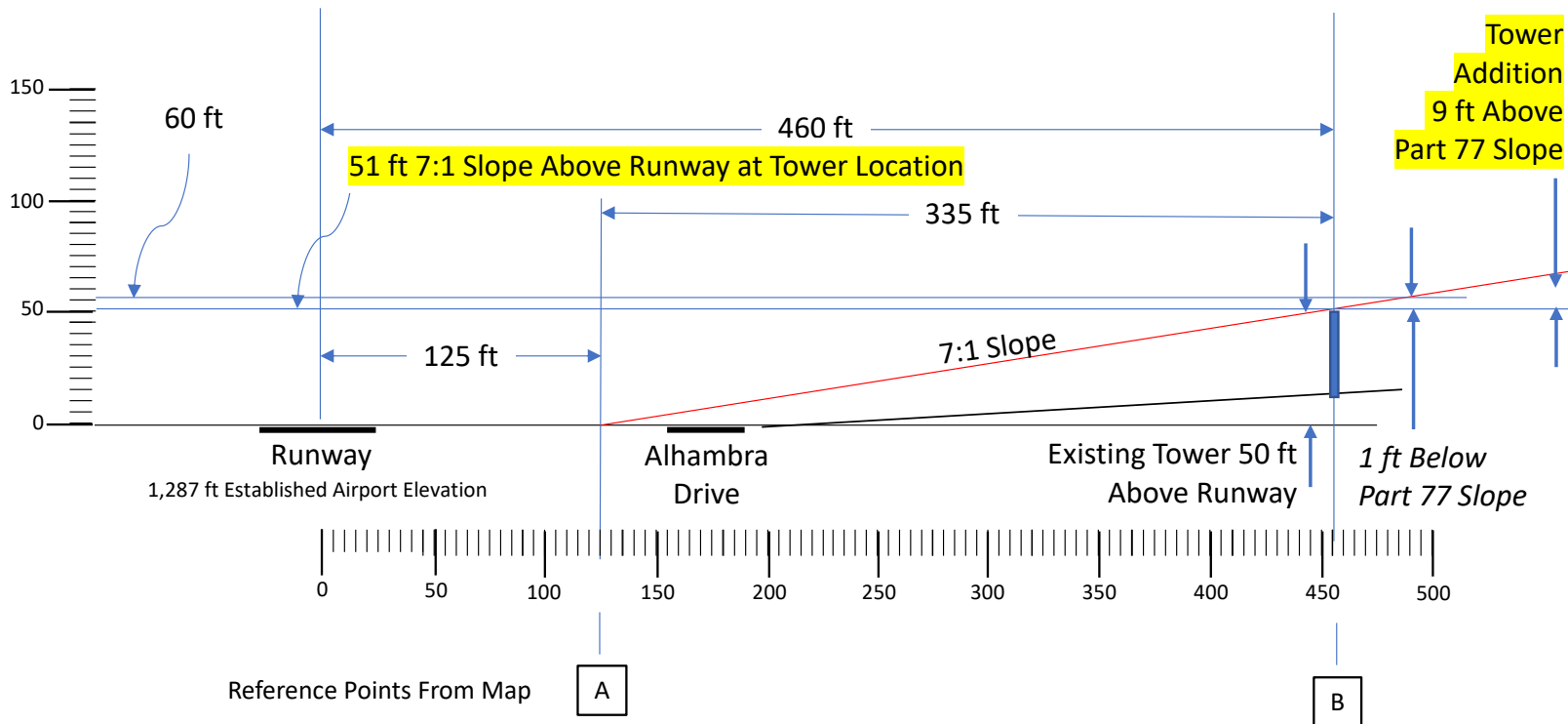


November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

Alhambra Drive Cell Tower Expansion – FAA Part 77 Airspace Analysis

November 07, 2022



LENGTHS AND DISTANCES ARE APPROXIMATE



November 7, 2022

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November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

CPAD Response Letter

- Dated August 19, 2022
- An FAA request form 7460-1, Notice of Proposed Construction or Alteration shall be filed with the FAA copied to CalTrans Division of Aeronautics and Cameron Park Airport District
- Has this been filed with FAA?
- EDC ALUP Chapter 4.4 Airspace Protection,



November 7, 2022

DRAFT

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EDC Airport Land Use Compatibility Plan (ALUC)

- Chapter 4.4 Airspace Protection,
 - Chapter 4.4.4 Requirements for FAA Notification of Proposed Construction or Alternations. The project proponent. is responsible for notifying the FAA about proposed construction that may affect navigable airspace.³⁹ The following is ALUC policy on this topic.

(a) Reference to FAA notification requirements is included here for informational purposes only, not as an ALUC policy. Local agencies should inform project proponents of the requirements for FAA notification.

(b) Any proposed development project that includes construction of a structure or other object and that must be referred to the ALUC for a consistency review in accordance with Policies 2.4.3 or 2.4.5 shall include a copy of the completed FAR Part 77 notification form (Form 7460-1) submitted to the FAA, if applicable, and the findings of the FAA's aeronautical study (i.e., notice of determination letter). A proposed project may be referred to the ALUC in advance of the completion of the FAA aeronautical study. However, the completed study must be forwarded to the ALUC when available and the ALUC may reconsider its previous consistency determination if the FAA study provides new information and airspace protection was a factor in the ALUC's determination.



November 7, 2022

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CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

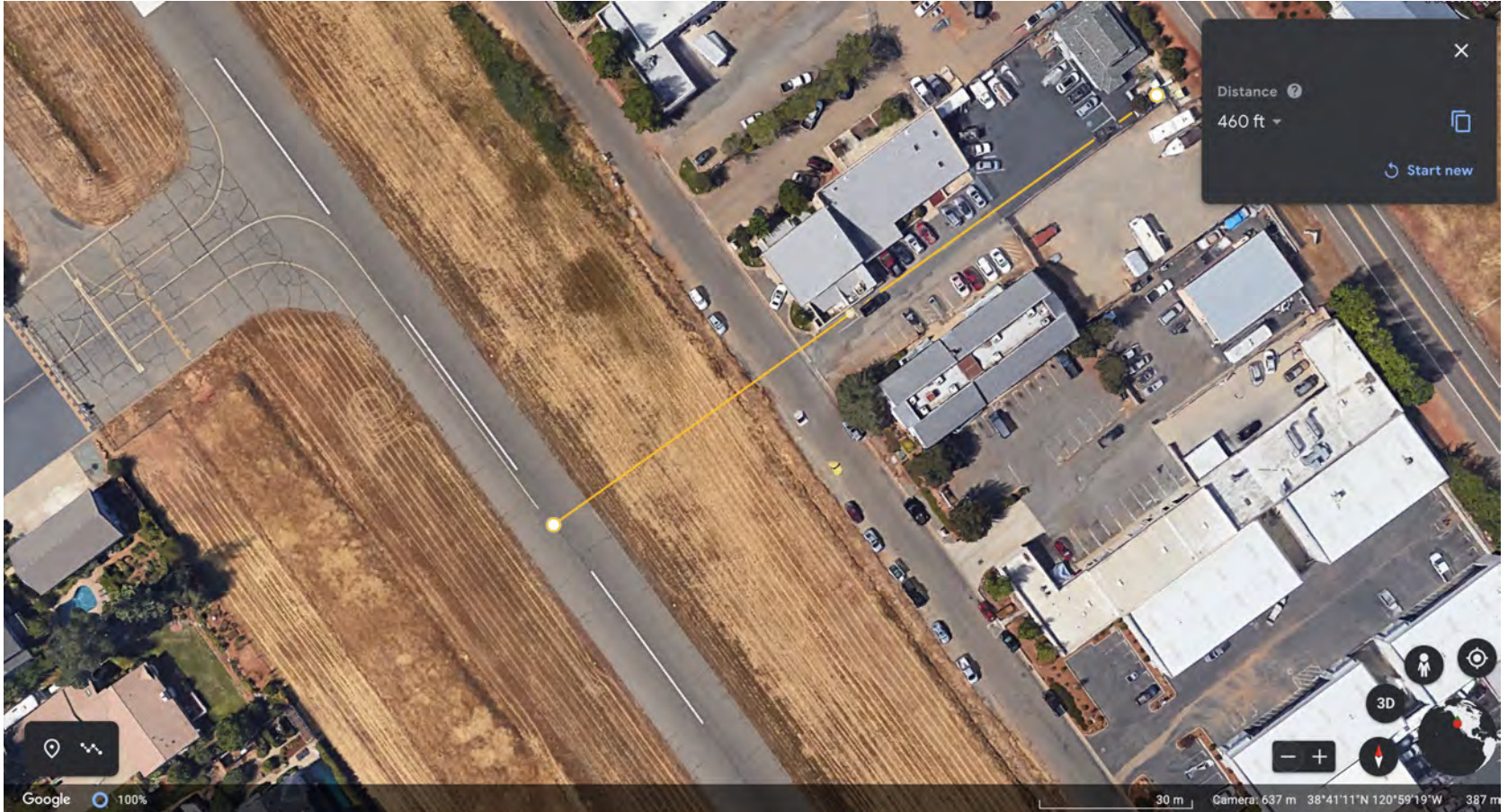
24-0618 D 57 of 70

Backup



November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

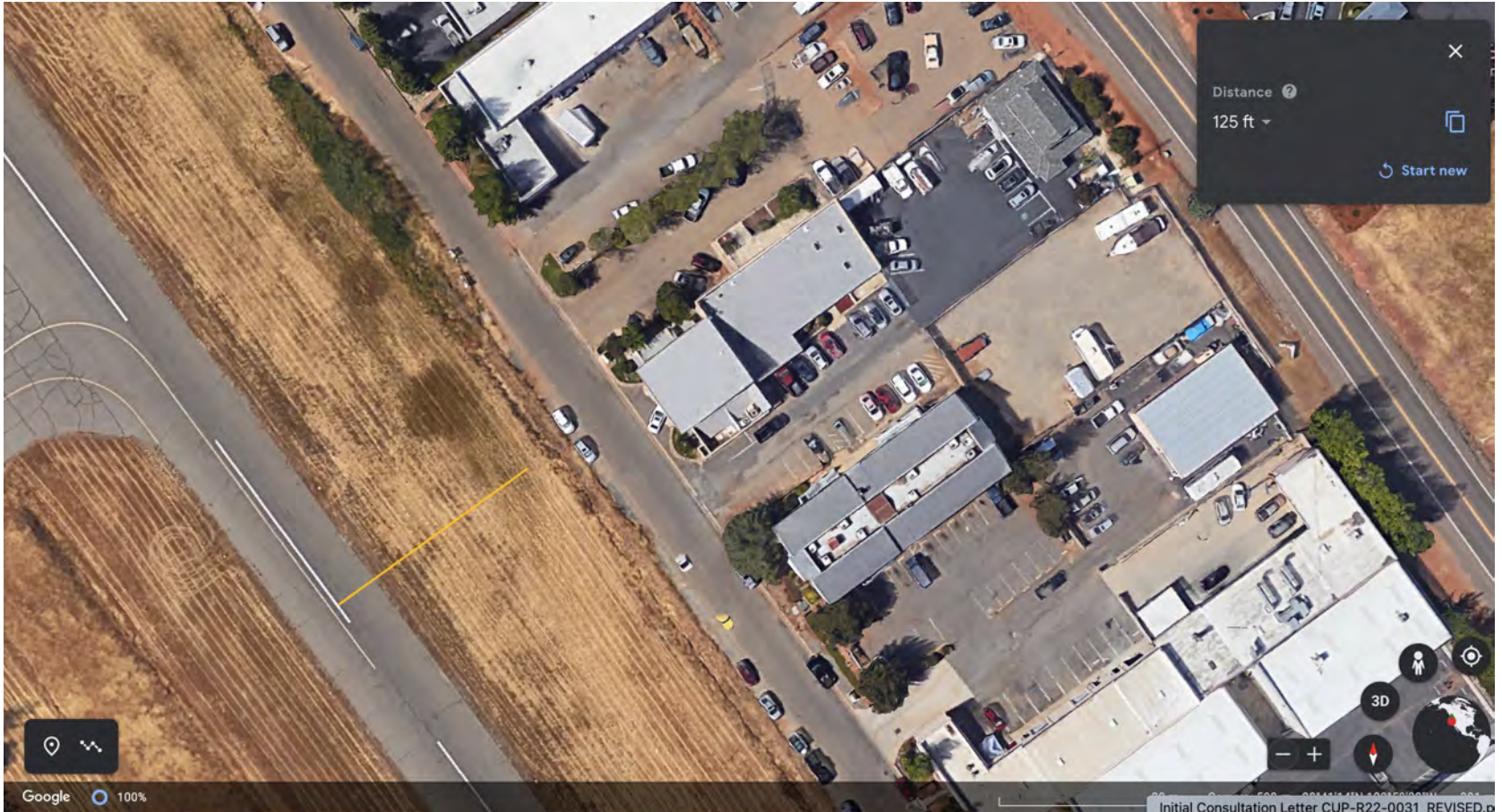


November 7, 2022

CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

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Initial Consultation Letter CUP-R22-0031 REVISED.p

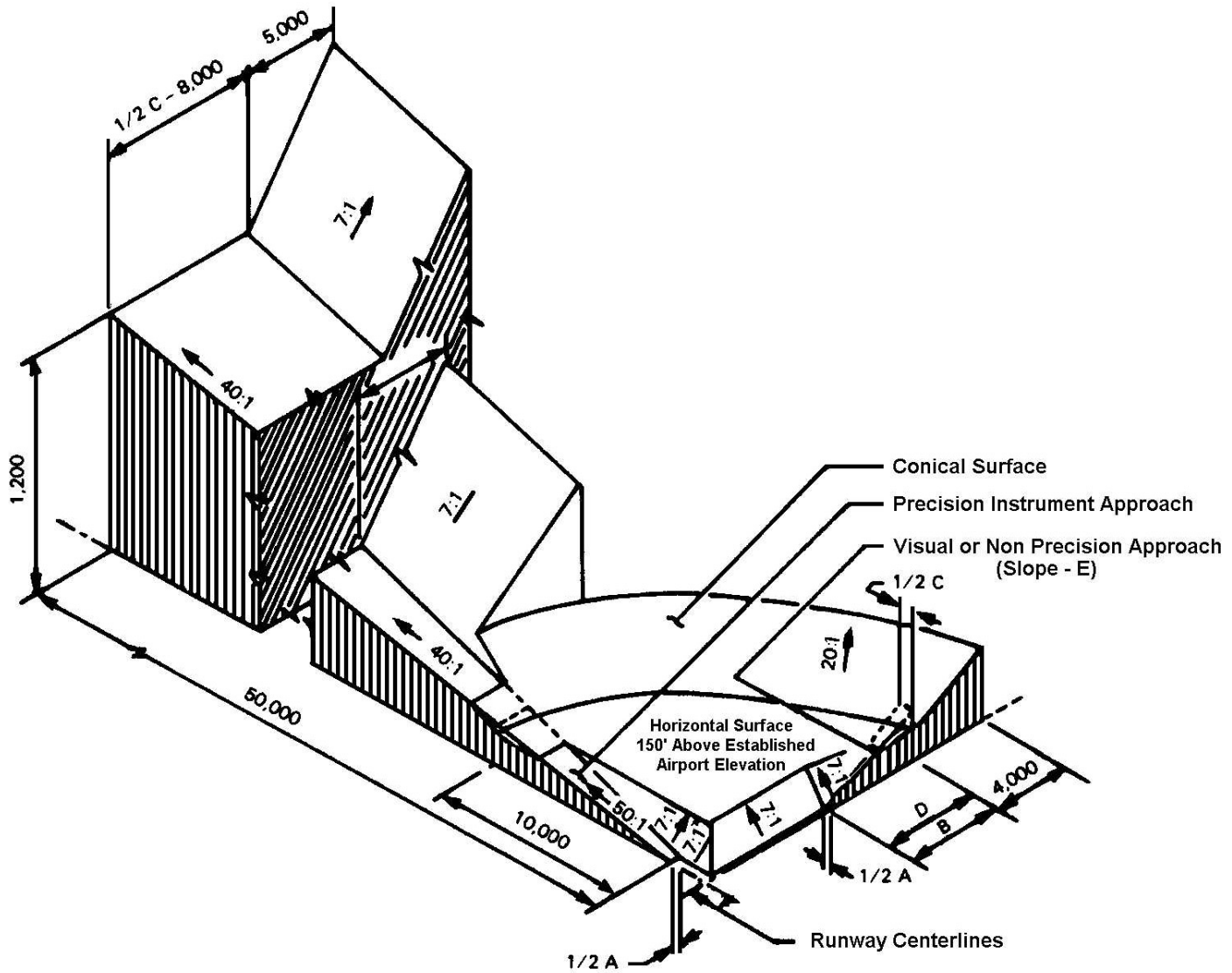


November 7, 2022

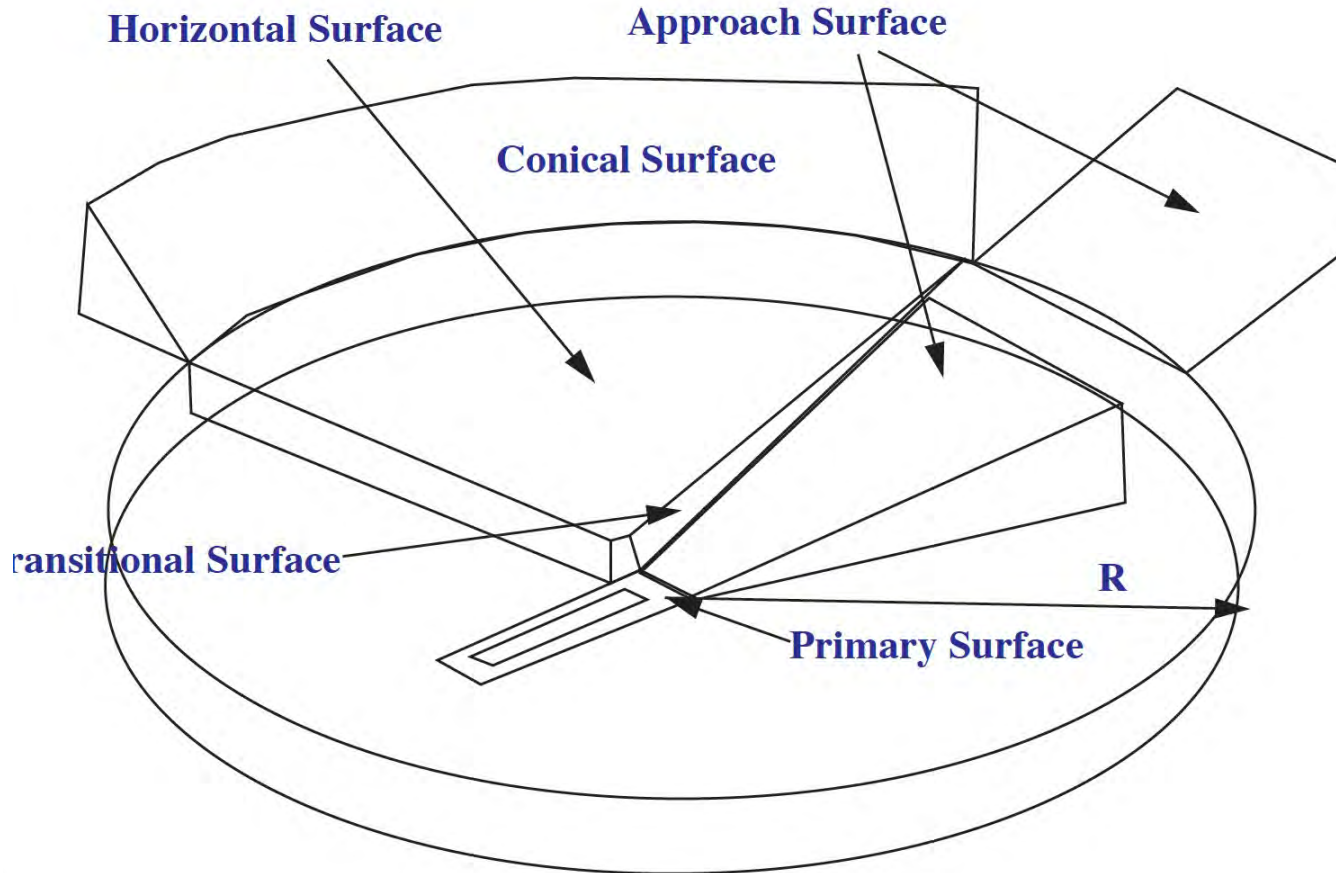
CUP-R22-0031 Alhambra Drive Monopine Exhibit I: Cameron Park Airport Review Findings

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Graphical Depiction



C



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Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-21088-OE
Prior Study No.
2002-AWP-171-OE

Issued Date: 11/13/2023

Susan Bottone

Crown Castle USA-SB
8000 Avalon Blvd, Suite 700
Alpharetta, GA 30009

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Tower 827264 SA948 Cameron Park
Location: CAMERON PARK, CA
Latitude: 38-41-15.60N NAD 83
Longitude: 120-59-20.30W
Heights: 1292 feet site elevation (SE)
55 feet above ground level (AGL)
1347 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure should continue to be marked/lighted utilizing red lights.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Air Missions (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

____ At least 10 days prior to start of construction (7460-2, Part 1)
___X___ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

This determination expires on 05/13/2025 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before December 13, 2023. In the event an interested party files a petition for review, it must contain a full statement of the basis upon which the petition is made. Petitions can be submitted to the Manager, Rules and Regulations Group via email at OEPetitions@faa.gov, or via mail to Federal Aviation Administration, Air Traffic Organization, Rules and Regulations Group, Room 425, 800 Independence Ave, SW., Washington, DC 20591. FAA encourages the use of email to ensure timely processing.

This determination becomes final on December 23, 2023 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. Any questions regarding your petition, contact Rules and Regulations Group via telephone (202) 267-8783.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed

structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or justin.hetland@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-21088-OE.

Signature Control No: 561883044-604532451

(DNH)

David Maddox
Manager, Obstruction Evaluation Group

Attachment(s)
Additional Information
Frequency Data
Map(s)

cc: FCC

Additional information for ASN 2022-AWP-21088-OE

AERONAUTICAL STUDY NO. 2022-AWP-21088-OE

Abbreviations:

AGL - Above Ground Level
AMSL - Above Mean Sea Level
IFR - Instrument Flight Rules
NEH - No Effect Height
NM - Nautical Mile
RWY - Runway
VFR - Visual Flight Rules

Part 77 - Title 14 Code of Federal Regulations (CFR) Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace

1. LOCATION OF PROPOSED CONSTRUCTION

Crown Castle USA's proposed height increase to an existing tower (827264 SA948 Cameron Park) at 55 feet AGL/1347 feet AMSL, has been identified as an obstruction under Part 77 standards. The proposed structure is located 0.23 nautical miles northeast of the Cameron Park Airport (O61) airport reference point (ARP) in Cameron Park, CA. O61 elevation is 1292 feet AMSL.

2. OBSTRUCTION STANDARDS EXCEEDED

Section 77.19(e) - Transitional Surface, these surfaces extend outward and upward at right angles to the runway centerline and the runway centerline extended at a slope of 7 to 1 from the sides of the primary surface and from the sides of the approach surfaces. Transitional surfaces for those portions of the precision approach surface which project through and beyond the limits of the conical surface, extend a distance of 5,000 feet measured horizontally from the edge of the approach surface and at right angles to the runway centerline. The proposed structure would exceed the transitional surface for the existing RWY 13/31 by 23 feet.

3. EFFECT ON AERONAUTICAL OPERATIONS

- a. The impact on arrival, departure, and en route procedures for aircraft operating under VFR follows: The VFR traffic pattern airspace is not penetrated.
- b. The impact on arrival, departure, and en route procedures for aircraft operating under IFR follows: No impacts to any instrument approach procedure minimums at O61.
- c. The impact on all planned public-use airports and aeronautical facilities follows: Study did not disclose any significant adverse effect on existing or proposed public-use or military airports or navigational facilities, nor would the proposed structure affect the capacity of any known existing or planned public-use or military airport.
- d. The cumulative impact resulting from the proposed construction or alteration of a structure when combined with the impact of other existing or proposed structures is not considered to be significant.

4. CIRCULATION AND COMMENTS RECEIVED

As a result of the negotiation process the sponsor requested the study to be circularized. The proposal was circularized for public comment on October 2, 2023, to all known aviation interests and to non-aeronautical interests that may be affected by the proposal. No letters of objection were received.

5. DETERMINATION - NO HAZARD TO AIR NAVIGATION

It is determined that the proposed structure would not have a substantial adverse effect on the safe and efficient use of navigable airspace by aircraft.

6. BASIS FOR DECISION

Part 77 establishes standards for determining obstructions to air navigation. A structure that exceeds one or more of these standards is presumed to be a hazard to air navigation unless the obstruction evaluation study determines otherwise. Just because a proposed structure exceeds a Part 77 surface does not automatically make it a hazard. In this case the proposal would exceed the transitional surface by the value shown above, however, it would not conflict with airspace required to conduct normal VFR traffic pattern operations. There are no IFR impacts and the VFR traffic pattern airspace is not impacted. The proposal was sent out for public comment with no letters of objection being received against the structure. The continued incorporation of obstruction lighting will provide additional pilot conspicuity for VFR and IFR pilots flying in the vicinity of O61 airport.

7. CONDITIONS

The structure shall continue to be lighted as outlined in Chapters 4, 5 (Red) & 15 of the Advisory Circular AC 70/7460-1M. The advisory circular is available online at https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentID/1038519

Within five days after the structure reaches its greatest height, proponent is required to file a FAA form 7460-2, Actual Construction notification, at the OE/AAA website (<http://oeaaa.faa.gov>). This actual construction notification will be the source document detailing the site location, site elevation, structure height, and date structure was built for the FAA to map the structure on aeronautical charts and update the national obstruction database.

Frequency Data for ASN 2022-AWP-21088-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

TOPO Map for ASN 2022-AWP-21088-OE



Sectional Map for ASN 2022-AWP-21088-OE

