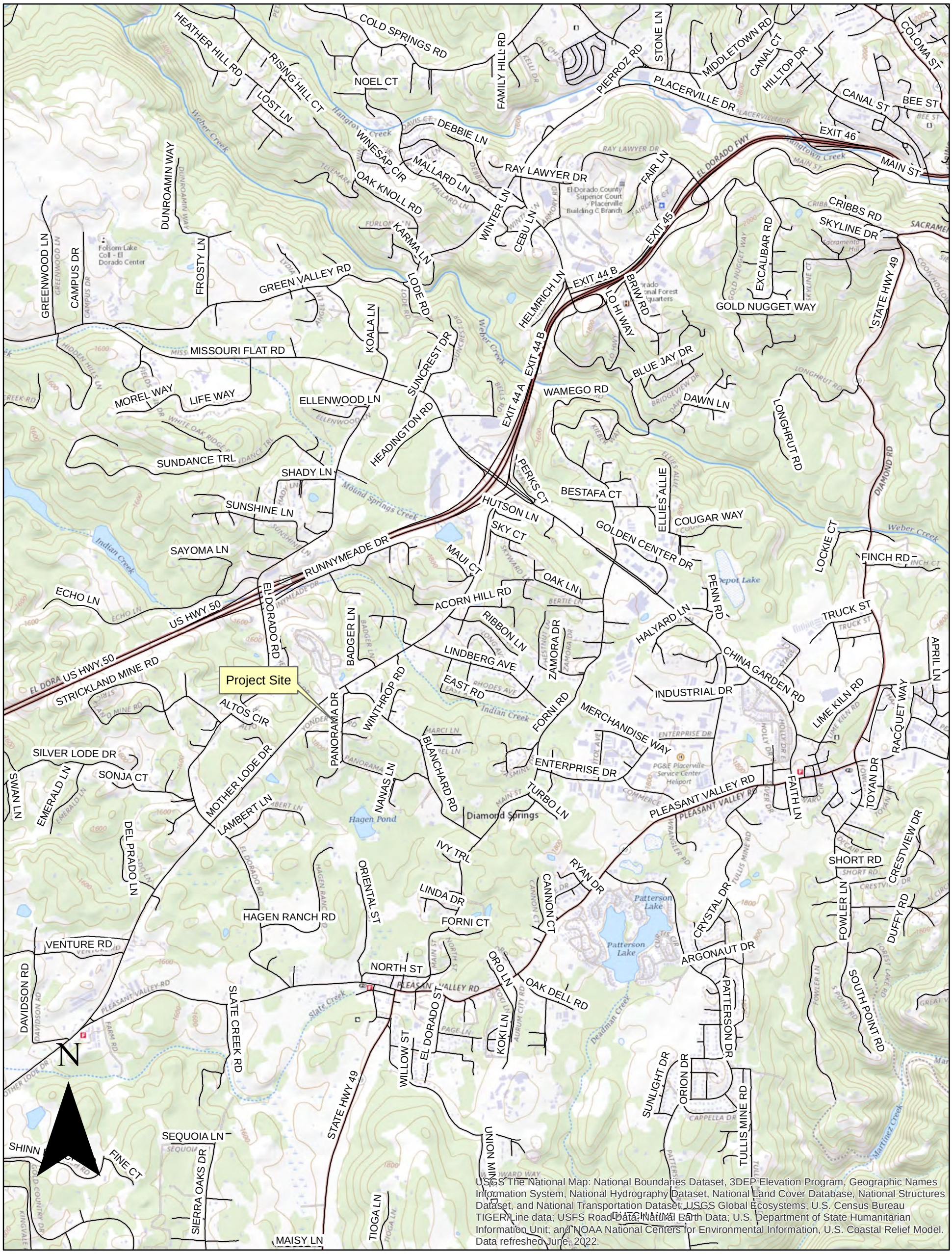
CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT A - VICINITY MAP

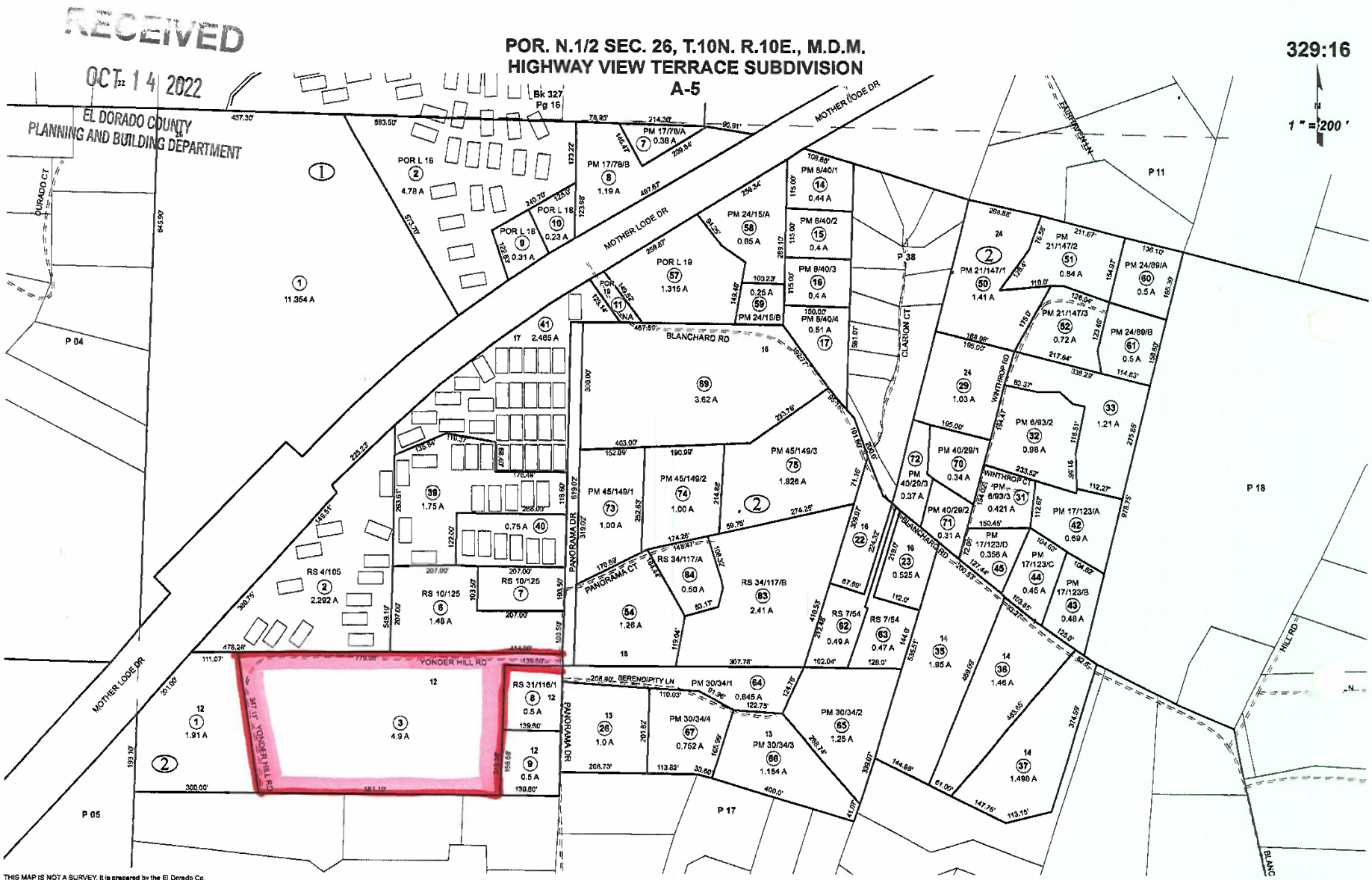


USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed June, 2022.

Only 61 parcels located within all of the USFWS Boundary

0 0.375 0.75 1.5 2.25 3 Miles

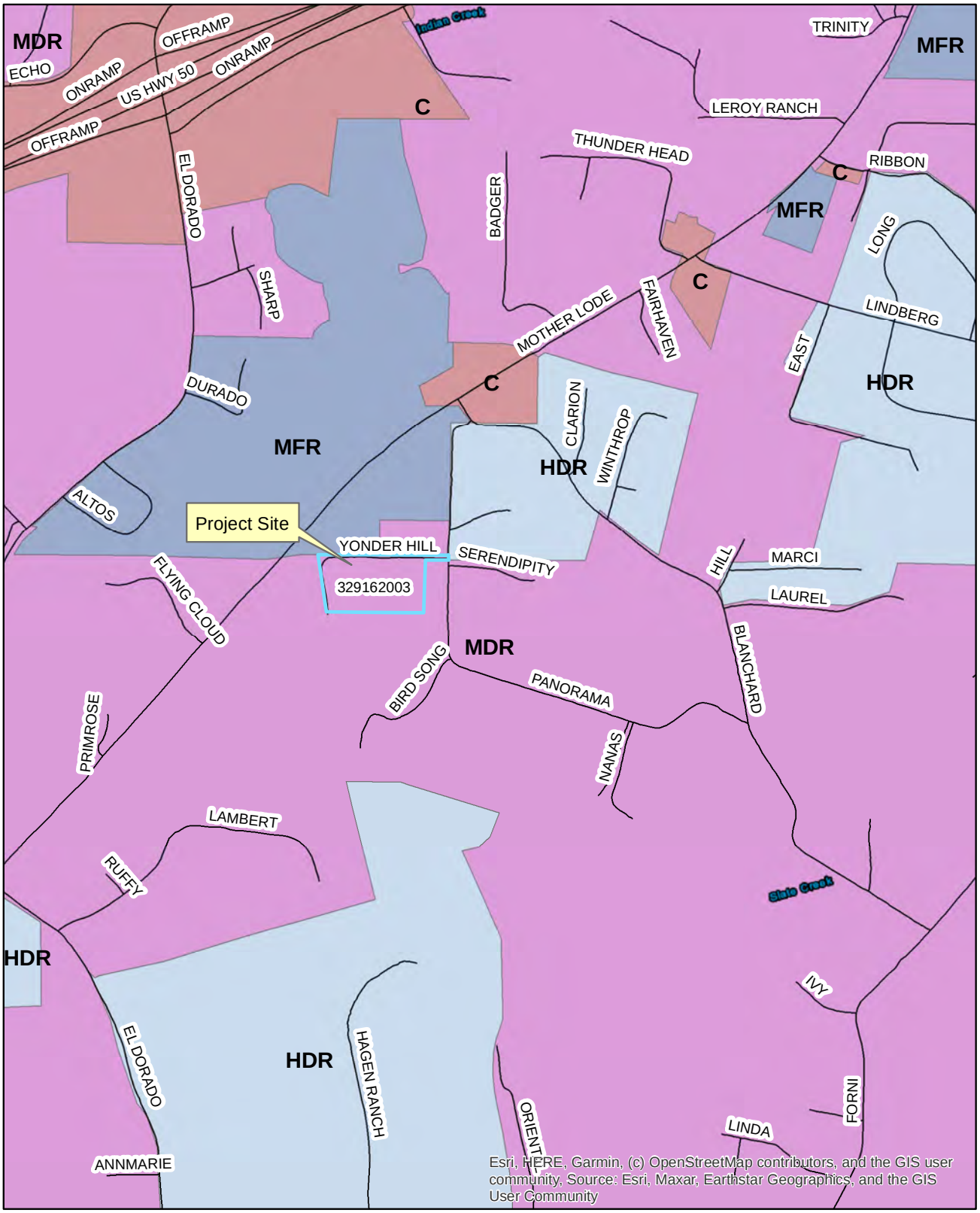
CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT B - ASSESSOR'S PLAT MAP



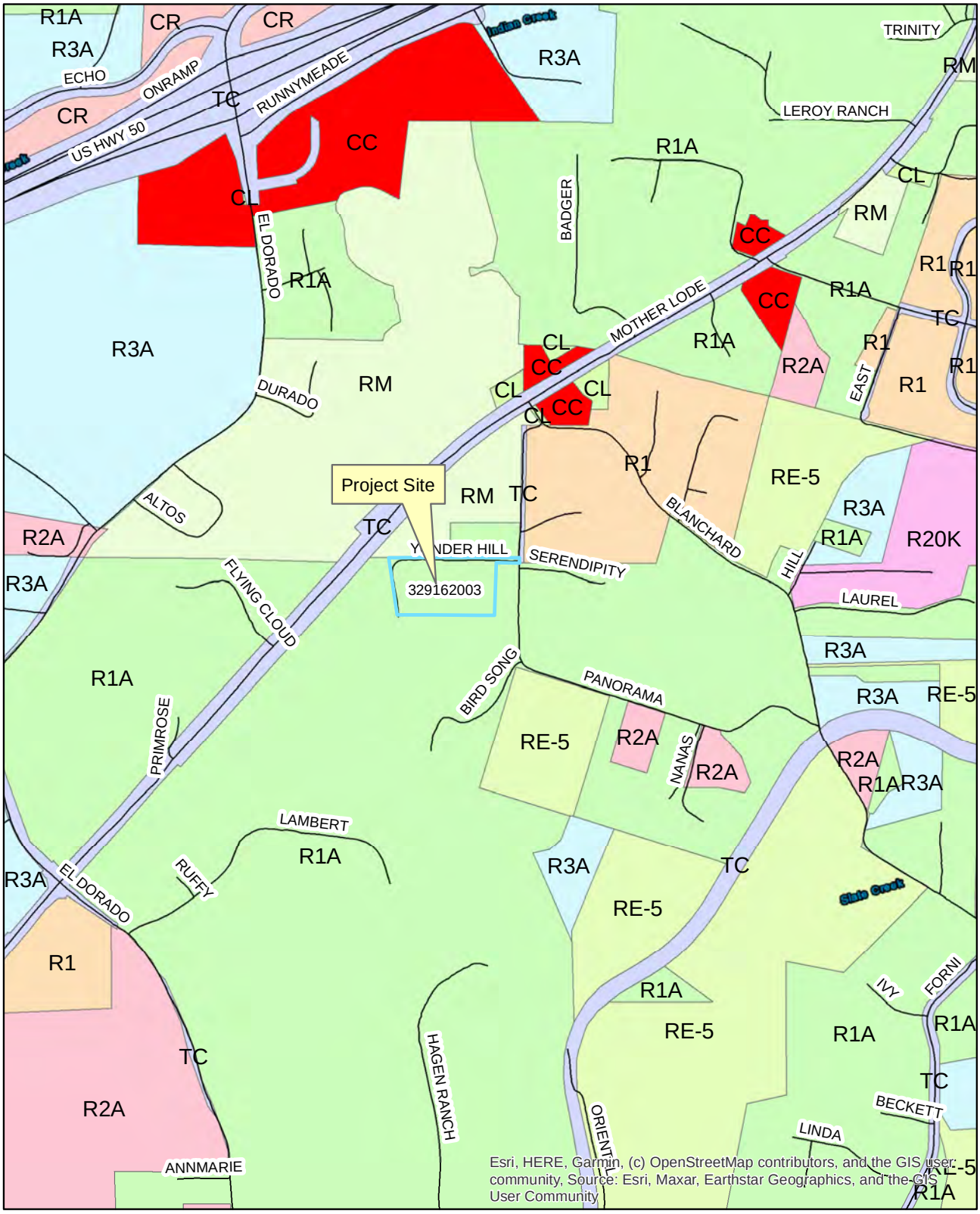
THIS MAP IS NOT A SURVEY. It is prepared by the El Dorado Co Assessor's office for assessment purposes only. Area calculations and characteristics are not guaranteed. Users should verify items such as dimensions and acreage.

CUP-R22-0018 SYRES CELL TOWER REPLACEMENT

EXHIBIT C - **GENERAL PLAN** LAND USE DESIGNATION MAP



CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT D - ZONING DESIGNATION MAP



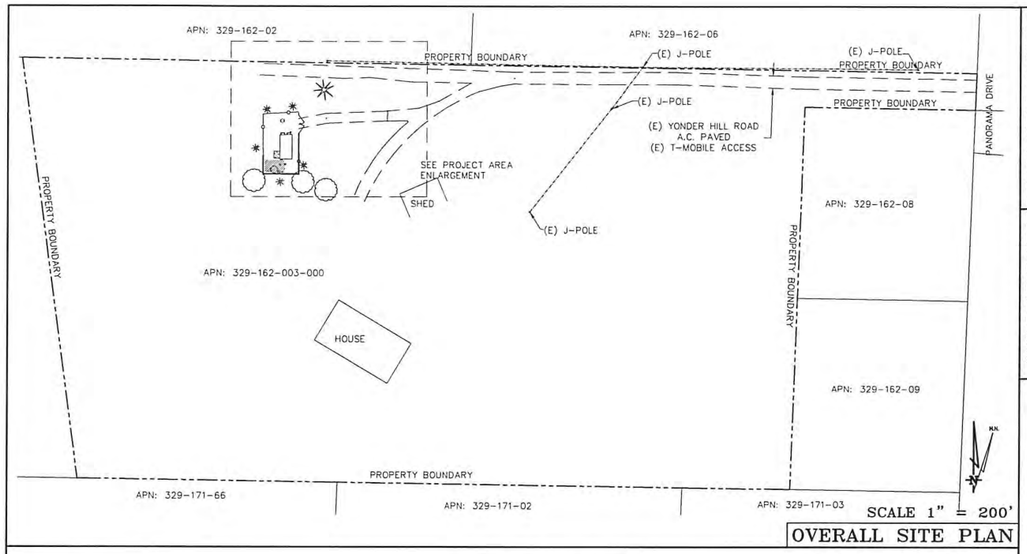
CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT **E** - **AERIAL MAP**

0 125 250 500 750 1,000 Feet

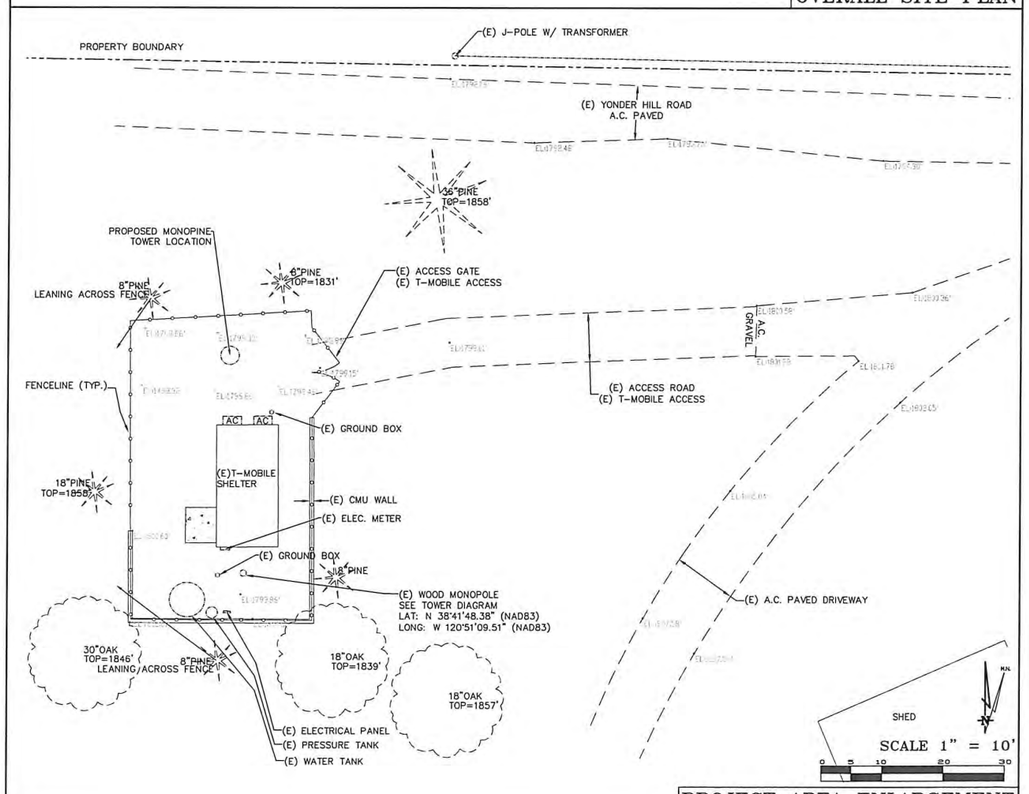
Scale

N

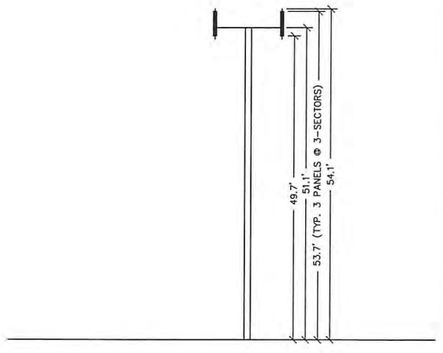
CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT F - SITE PLAN



OVERALL SITE PLAN



PROJECT AREA ENLARGEMENT



TOWER DIAGRAM

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

Geil Engineering
Engineering * Surveying * Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

T-MOBILE

Project Number/Name: SC70143A / Mother Lode

Project Site Location: 4382 Panorama Drive
Placerville, CA 95667
El Dorado County

Date of Observation: 08-24-22

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.

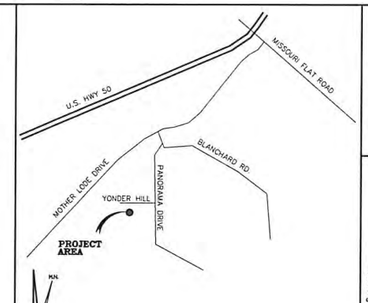
Type of Antenna Mount: Proposed Monopine Tower

Latitude: N 38° 41' 48.71" (NAD83) N 38° 41' 49.06" (NAD27)
Longitude: W 120° 51' 09.54" (NAD83) W 120° 51' 05.77" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1799.5' AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803



PLACERVILLE, CA

VICINITY MAP

DATE OF SURVEY: 08-24-22

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.72 FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N/A

THE LATITUDE AND LONGITUDE WERE DETERMINED USING TRIMBLE GEO-XT G.P.S AND UTILIZING PFINDER OFFICE DIFFERENTIAL CORRECTION SOFTWARE AT THE LOCATION SHOWN HEREON.

THIS SURVEY MEETS OR EXCEEDS FAA 1A ACCURACY TOLERANCES.

ASSESSOR'S PARCEL NUMBER: 329-162-003-000

OWNER(S): STEVEN & JODI SYRES
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667

RECEIVED
OCT 14 2022
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
ENGINEERING * SURVEYING * PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
phone: (530) 885-0426
fax: (530) 823-1309

T-Mobile

SC70143A
MOTHER LODE
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667

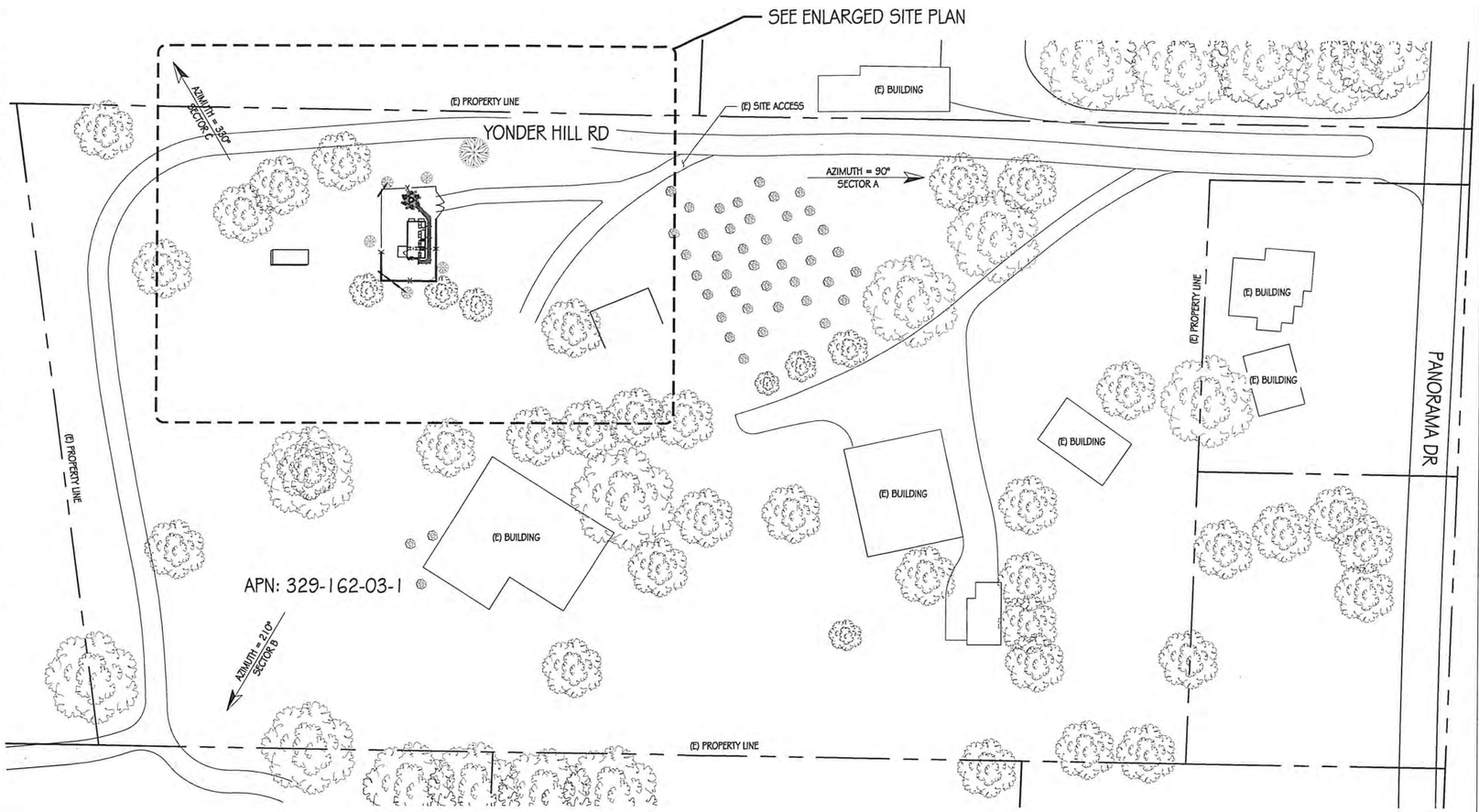
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS		
REV	08-24-22 N. ROHDE	DRAWING SUBMITTAL
REV	09-20-22 N. ROHDE	TOWER UPDATE
REV		
REV		
REV		

Sheet
C-1

PROJECT GENERAL NOTES

1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS NOTED OTHERWISE.
3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
17. CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.



TN

OVERALL SITE PLAN

1"=30'

0 15' 30' 60' 90' 150'

RECEIVED
OCT 14 20[illegible]
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

Sprint / T-Mobile
WEST REGION
1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546
11768 Atwood Rd, Suite 20 Auburn, CA 95603

REGISTERED PROFESSIONAL ENGINEER
BRET A. McCOMB
C 69891
CIVIL
STATE OF CALIFORNIA

MOTHER LODE

SC70143A / 5F72XC532
4362 PANORAMA DRIVE
PLACERVILLE, CA 95667

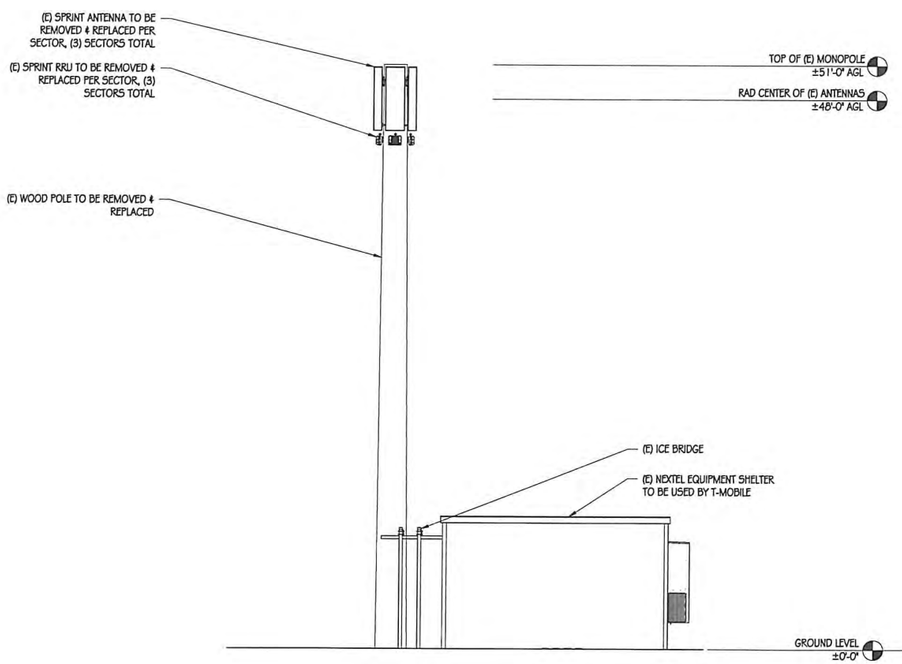
ISSUE STATUS

	DATE	DESCRIPTION	
△	04/27/21	CD 90%	
△	01/20/22	CD 95%	
⚠	09/06/22	CD 95%	PC

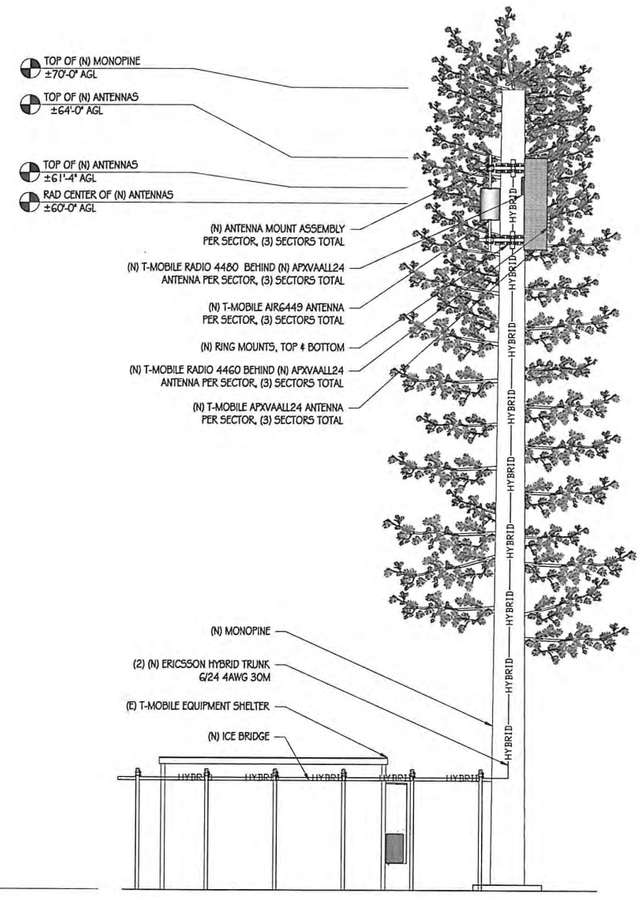
DRAWN BY:	E. WILSON
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	09/06/22

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER
A-1



EXISTING EAST ELEVATION
3/16"= 1'-0"



NEW EAST ELEVATION
3/16"= 1'-0"

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

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△	04/27/21	CD 90%	
△	01/20/22	CD 95%	
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DRAWN BY:	E. WILSON
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	09/06/22

SHEET TITLE:
ELEVATIONS

SHEET NUMBER
A-5

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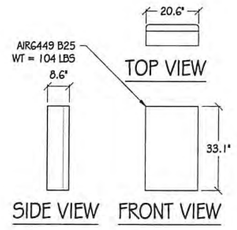
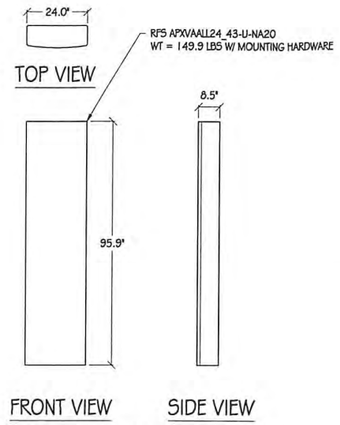
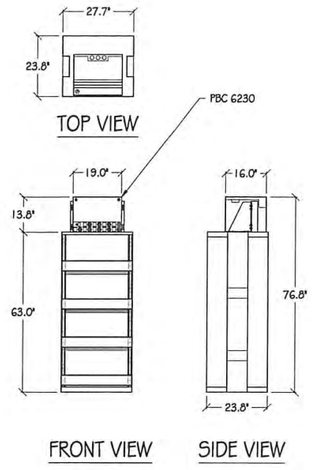
12. CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.



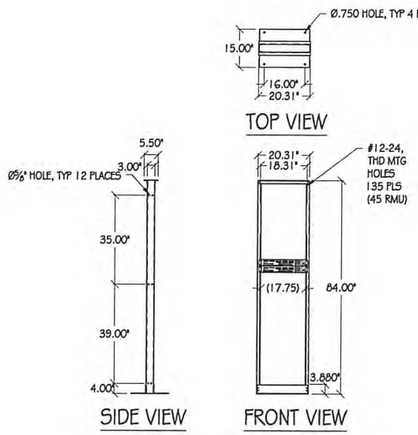
1 (N) ANTENNA DETAIL
1/2"=1'



2 (N) ANTENNA DETAIL
1/2"=1'



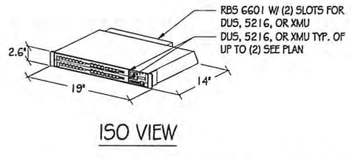
3 POWER 6230 DETAIL
1/2"=1'



4 19" EQUIPMENT RACK DETAIL
1/2"=1'

RBS 6601

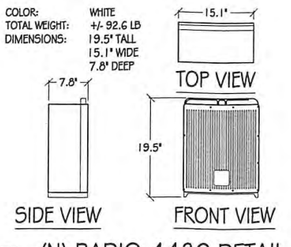
NORMAL OPERATING VOLTAGE:	48 VDC
NORMAL DISCHARGE CURRENT:	20 kA 8/20 µs
MAX DISCHARGE CURRENT:	60 kA 8/20 µs
MAX CONTINUOUS OPERATING VOLTAGE:	75 VDC
VOLTAGE PROTECTION RATING:	400 V
TOTAL WEIGHT:	38 lbs



5 TYPICAL RBS 6601 DETAIL
NTS

ERICSSON RADIO 4480

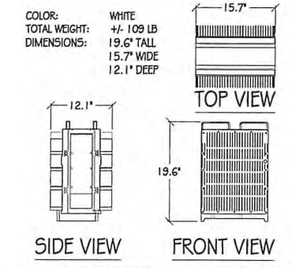
COLOR:	WHITE
TOTAL WEIGHT:	+/- 92.6 LB
DIMENSIONS:	19.5" TALL
	15.1" WIDE
	7.8" DEEP



6 (N) RADIO 4480 DETAIL
1"=1'

ERICSSON RADIO 4460

COLOR:	WHITE
TOTAL WEIGHT:	+/- 109 LB
DIMENSIONS:	19.6" TALL
	15.7" WIDE
	12.1" DEEP



7 (N) RADIO 4460 DETAIL
1"=1'

Sprint
T-Mobile
WEST REGION
1755 GREENSIDE DRIVE, SUITE 190
SACRAMENTO, CA 95833

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546
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PLACERVILLE, CA 95667

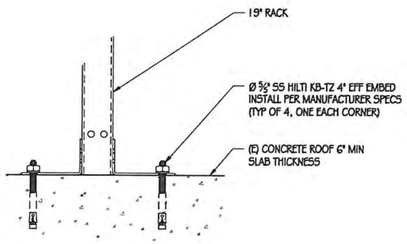
ISSUE STATUS

	DATE	DESCRIPTION	
△	04/27/21	CD 90%	
△	01/20/22	CD 95%	
⚠	09/06/22	CD 95%	PC

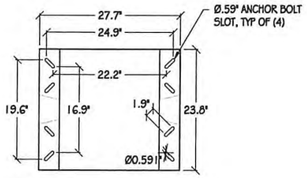
DRAWN BY:	E. WILSON
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	09/06/22

SHEET TITLE:
DETAILS

SHEET NUMBER
A-6

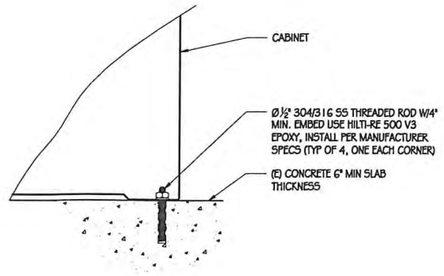


1 19" RACK ANCHORING DETAIL
1"=6"

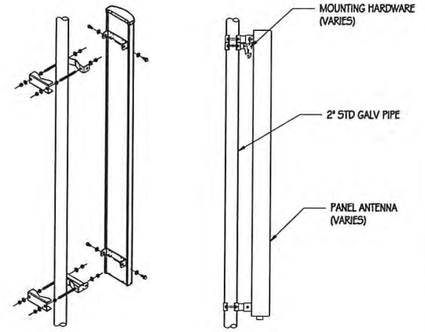


BOTTOM VIEW

2 POWER 6230 BOLT LAYOUT
1"=1"

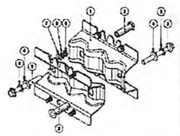


3 POWER 6230 ANCHORING DETAIL
1"=6"

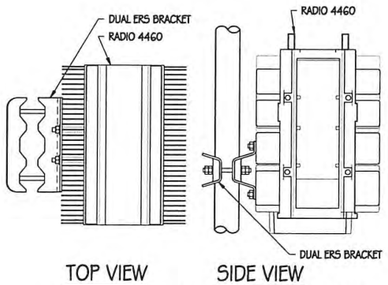


ISO VIEW SIDE VIEW

4 ANTENNA MOUNT DETAIL
1"=1"

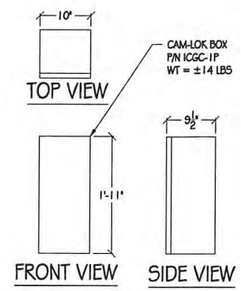


ITEM NO.	QTY.	Description
1	2	ERS bracket
2	2	Bushing nut M10x50
3	2	Flange bolt M10x90 FZV
4	2	Washer 10.5x22x2
5	2	Spring washer
6	8	Bolt M8x20 A4
7	8	Washer 8.4x16x1.6
8	8	Spring washer



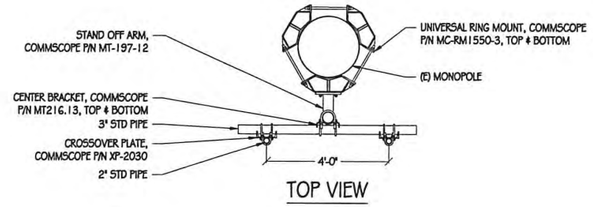
TOP VIEW SIDE VIEW

5 RRUS POLE MOUNTING DETAIL
1"=1"
NOTE: RADIO 4480 MOUNTS SIMILAR

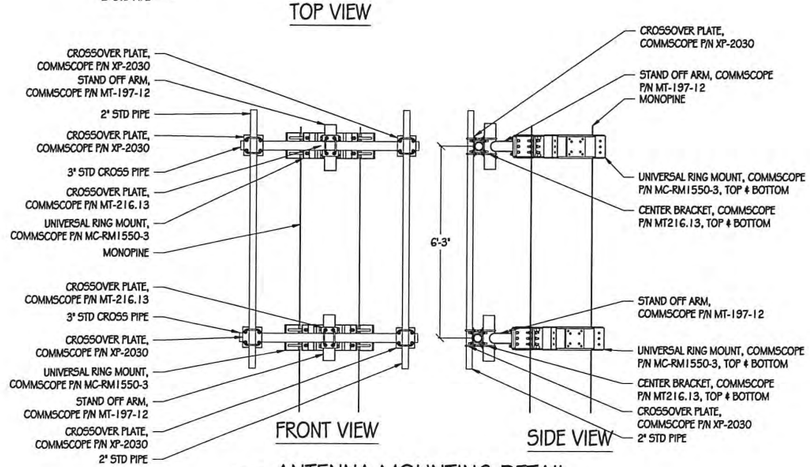


TOP VIEW FRONT VIEW SIDE VIEW

6 CAM-LOK DETAIL
1"=1"



TOP VIEW



FRONT VIEW SIDE VIEW

7 ANTENNA MOUNTING DETAIL
1 1/2"=1"

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

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546
11768 Atwood Rd, Suite 20 Auburn, CA 95603

REGISTERED PROFESSIONAL ENGINEER
BRET A. McCOMB
C 69891
CIVIL
STATE OF CALIFORNIA

MOTHER LODE
SC70143A / SF72XC532
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667

ISSUE STATUS

	DATE	DESCRIPTION	
△	04/27/21	CD 90%	
△	01/20/22	CD 95%	
⚠	09/06/22	CD 95%	PC

DRAWN BY: E. WILSON
CHECKED BY: F. CASTILLO
APPROVED BY: B. McCOMB
DATE: 09/06/22
SHEET TITLE:
DETAILS
SHEET NUMBER
A-7

ELECTRICAL NOTES

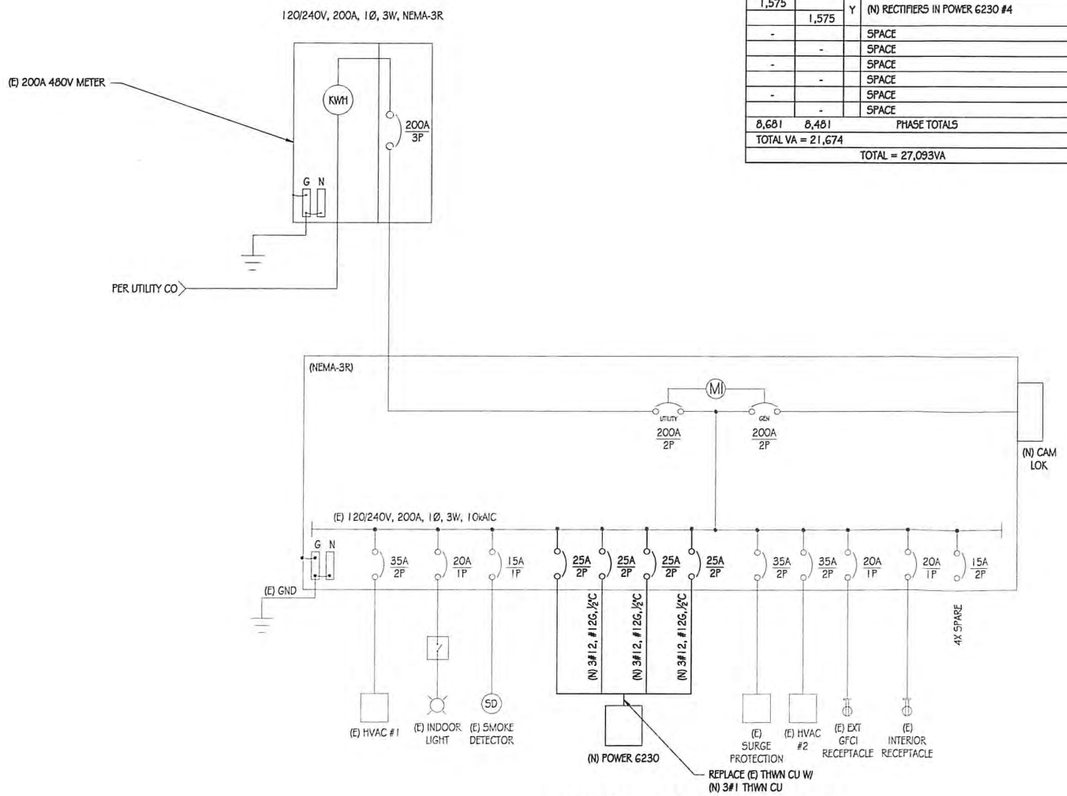
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NEC AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
4. ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
5. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
6. ELECTRICAL WIRING SHALL BE COPPER #12 MIN WITH TYPE XHHW, THWN, OR THHN INSULATION.
7. ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
8. ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
9. A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
10. WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.

ELECTRIC LEGEND

- KWH — METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF

120/240V PANELBOARD

NAMEPLATE:	PBD-1			SC LEVEL:	10kAIC			VOLTS:	120/240V, 1Ø, 3W		
LOCATION :	CELLULAR EQUIPMENT SITE							BUS AMPS:	200A		
MOUNTING :	EQUIPMENT RACK							MAIN CB:	200A		
ØA LOAD VA	ØB LOAD VA	CONT	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	CONT	LOAD DESCRIPTION	ØA LOAD VA	ØB LOAD VA
2,076		Y	(E) HVAC #1	35/2	01	02	35/2	Y	(E) HVAC #2	2,076	
	2,076				03	04					2,076
300			(E) INDOOR LIGHT	20/1	05	06	20/1		(E) EXT GFCI RECEPTACLE	180	
	100		(E) SMOKE DETECTOR	15/1	07	08	20/1		(E) INTERIOR RECEPTACLE		180
5		Y	(E) SURGE SUPPRESSOR	30/2	09	10			SPACE	-	
	5				11	12			SPACE		-
1,575		Y	(N) RECTIFIERS IN POWER G230 #1	25/2	13	14			SPACE	-	
	1,575				15	16			SPACE		-
1,575		Y	(N) RECTIFIERS IN POWER G230 #2	25/2	17	18			SPACE	-	
	1,575				19	20			SPACE		-
1,575		Y	(N) RECTIFIERS IN POWER G230 #3	25/2	21	22			SPACE	-	
	1,575				23	24			SPACE		-
1,575		Y	(N) RECTIFIERS IN POWER G230 #4	25/2	25	26			SPACE	-	
	1,575				27	28			SPACE		-
-			SPACE		29	30			SPACE	-	
	-		SPACE		31	32			SPACE		-
-			SPACE		33	34			SPACE	-	
	-		SPACE		35	36			SPACE		-
-			SPACE		37	38			SPACE	-	
	-		SPACE		39	40			SPACE		-
8,681	8,481		PHASE TOTALS						PHASE TOTALS	2,256	2,256
TOTAL VA = 21,674											
TOTAL = 27,093VA							TOTAL AMPS = 113A				



SINGLE LINE DIAGRAM

Sprint / T-Mobile
WEST REGION
1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-8546
11768 Atwood Rd, Suite 20 Auburn, CA 95603

REGISTERED PROFESSIONAL ENGINEER
BRET A. McCOMB
C 69891
CIVIL
STATE OF CALIFORNIA

MOTHER LODE

SC70143A / SF72XC532
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667

ISSUE STATUS

	DATE	DESCRIPTION	
△	04/27/21	CD 50%	
△	01/20/22	CD 95%	
⚠	09/06/22	CD 95%	FC

DRAWN BY: E. WILSON
CHECKED BY: F. CASTILLO
APPROVED BY: B. McCOMB
DATE: 09/06/22

SHEET TITLE:
ONE LINE DIAGRAM & PANEL SCHEDULE

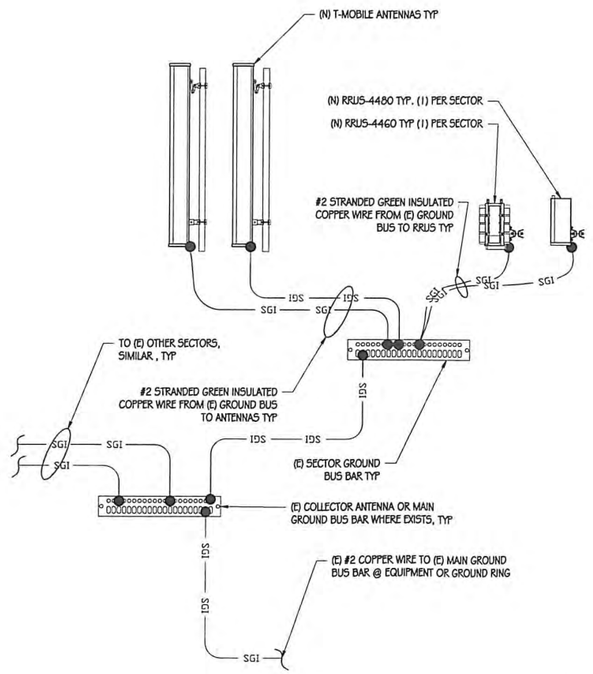
SHEET NUMBER
E-1

GROUNDING NOTES

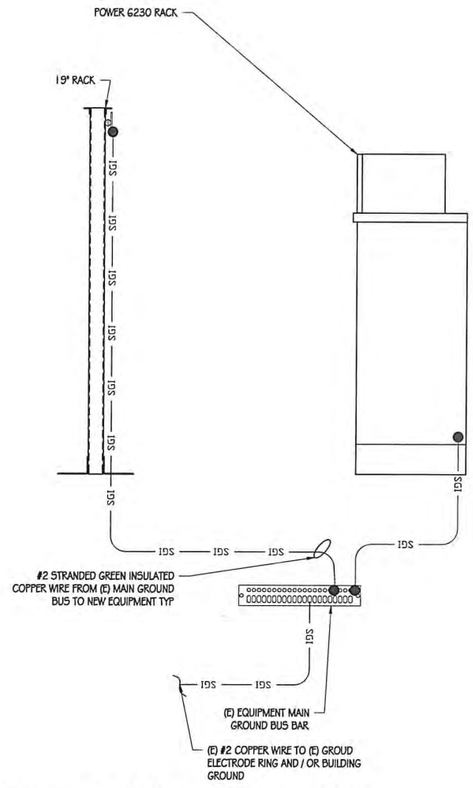
1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURER'S PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
3. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE CLEARWIRE REPRESENTATIVE.
5. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
6. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES).
7. PRIOR TO ANY LUG-BUSBAR CONNECTIONS, THE BUSBAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.
8. ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).

GROUND LEGEND

- MECHANICAL CONNECTION
- EXOTHERMIC CADWELD
- TYP. CADWELD INSPECTION WELL
- TYP ⅝" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX # 18" MIN BELOW FINISH GRADE
- —6— TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- —SGI— GROUND WIRE #2 STRANDED GREEN INSULATED WIRE
- TIE INTO (E) GROUNDING SYSTEM (VIF)



TYPICAL SECTOR ANTENNA GROUNDING DIAGRAM



EQUIPMENT GROUNDING DIAGRAM

GROUNDING DIAGRAMS

NTS

Sprint / T-Mobile
WEST REGION
1755 CREEKSIDE OAKS DR. SUITE 190
SACRAMENTO, CA 95833

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546
11768 Atwood Rd, Suite 20 Auburn, CA 95603

REGISTERED PROFESSIONAL ENGINEER
BRET A. McCOMB
C 69891
CIVIL
STATE OF CALIFORNIA

MOTHER LODE
SC70143A / 5F72XC532
4362 PANORAMA DRIVE
PLACERVILLE, CA 95667

ISSUE STATUS

	DATE	DESCRIPTION	
△	04/27/21	CD 90%	
△	01/20/22	CD 95%	
⚠	09/06/22	CD 95%	PC

DRAWN BY: E. WILSON
CHECKED BY: F. CASTILLO
APPROVED BY: B. McCOMB
DATE: 09/06/22
SHEET TITLE: GROUNDING PLANS
SHEET NUMBER: E-2

Fremont Environmental Consulting

February 08, 2023

Mr. Matt Veazey
SiteCom, Inc.
Mother Lode – Monopole Replacement Project
4382 Panorama Drive
Placerville, CA 95667

Subject: Oak Resources Declaration Letter for the Mother Lode – Monopole Replacement Project
4382 Panorama Drive, Placerville, El Dorado County, CA

Permit number: TBD

Mr. Veazey:

Per your request, Fremont Environmental Consulting (FEC, Inc.) conducted a review of the existing oak trees within the vicinity of the proposed project, which consists of replacing a monopole on the subject property. The project site is located at Township 10N, Range 10E, Section 26 of the "Placerville, CA" U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle (quad) (**Figure 1**).

The attached plan (**Figure 2**) displays the proposed project. No protected oak trees will be impacted as a result of construction of the new monopole. Additionally, the project will not impact the root protection zone (RPZ) and the project adheres to the measures specified in the County's *Oak Resources Management Plan* and the *Oak Resources Conservation Ordinance*. The existing habitat around the monopole location consists of individual pine trees, and while there are oaks along the permitter of the fence, no oak resources will be impacted therefore there will be zero impact to oak resources. Site photographs are included as **Figure 3**.

If future construction involves potential impact to or removal of additional oak resources, it is recommended that a subsequent oak analysis is conducted in order to determine potential mitigation.

Sincerely,

Matt Fremont

Matt Fremont
Principal/Biologist

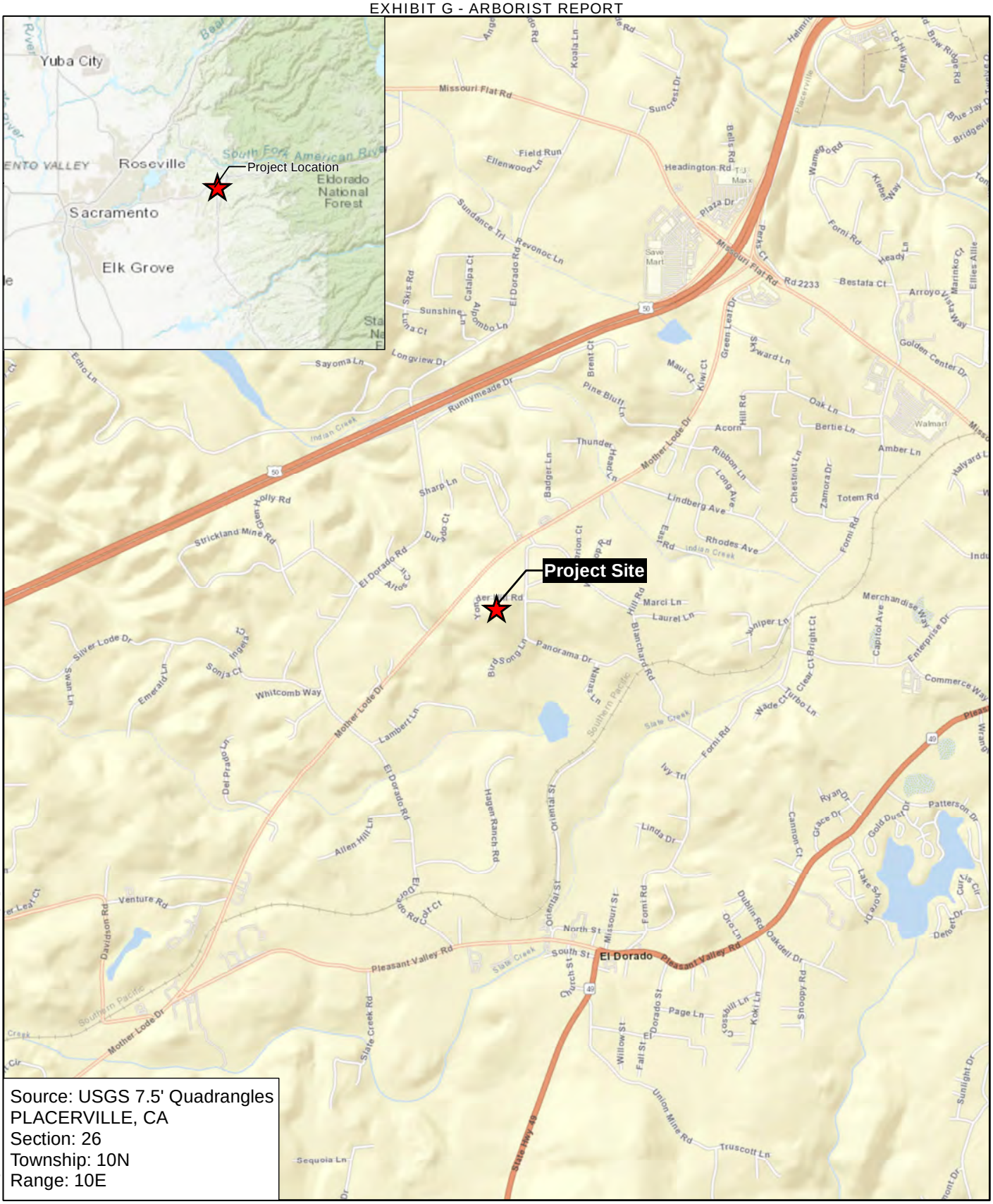


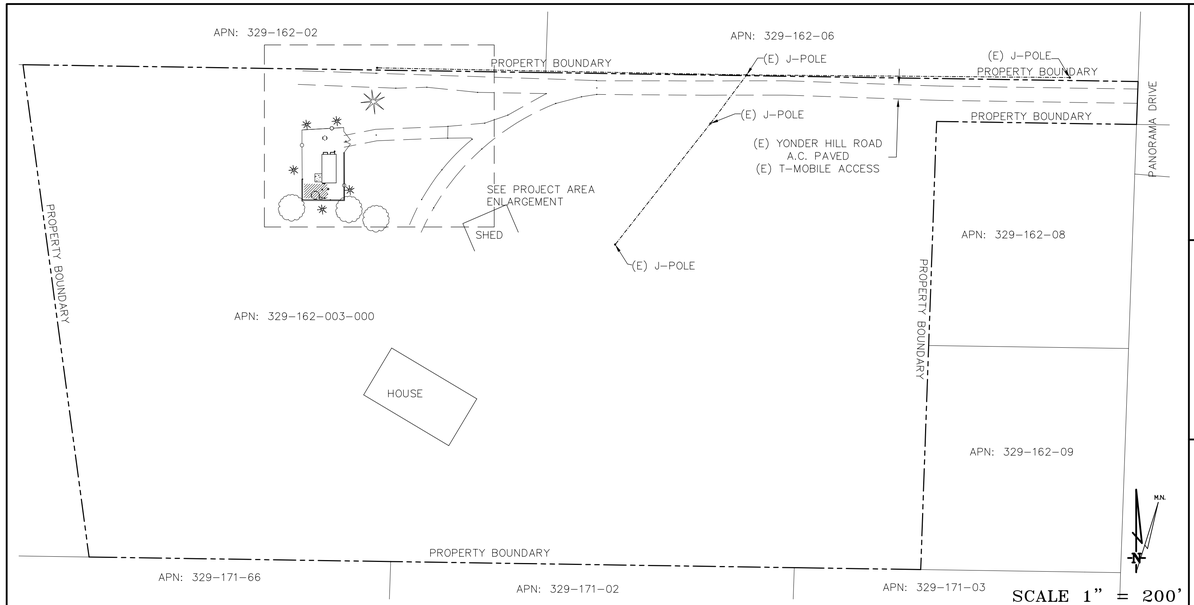
Figure 1

Regional Location and Vicinity

APN: 329-162-003
Mother Lode – Monopole Replacement Project
4382 Panorama Drive, Placerville, CA 95667

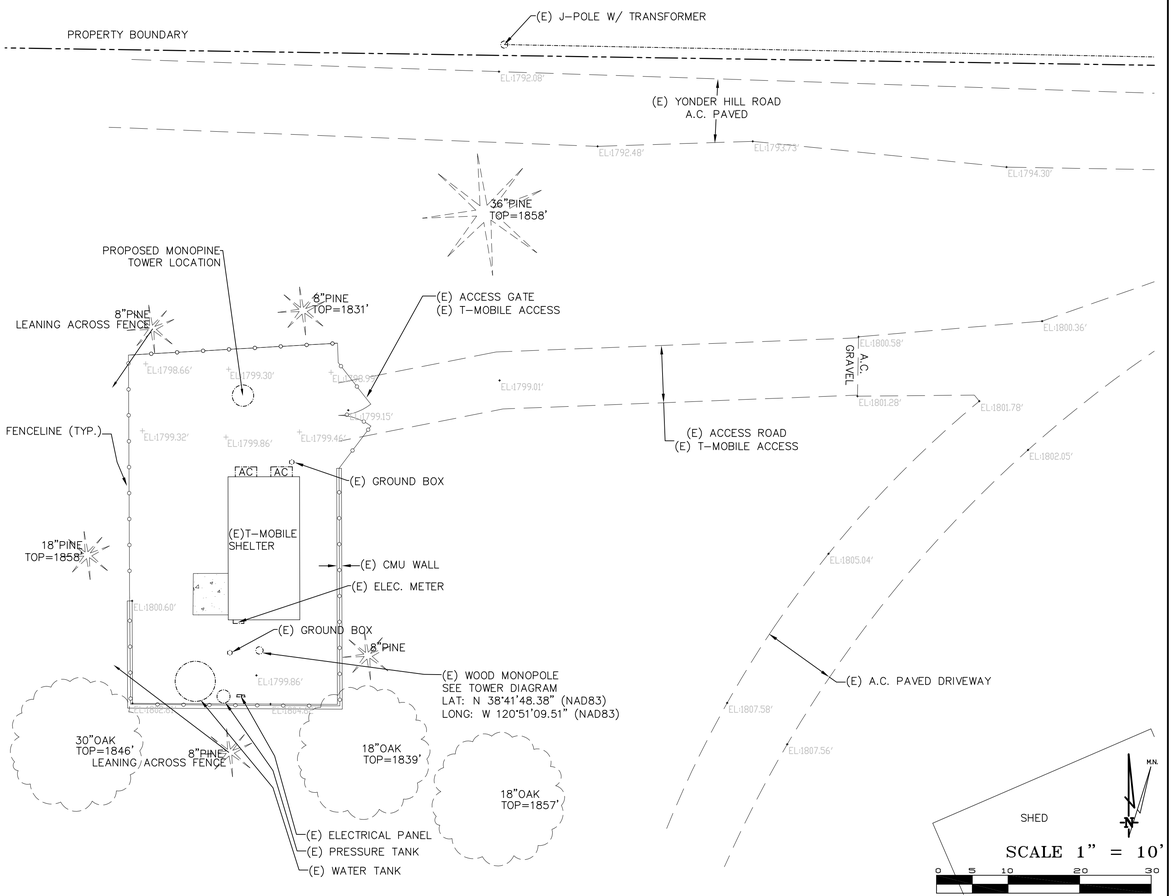
Fremont Environmental Consulting

Map Date: 02/03/2023
Source: ESRI (2023)



SCALE 1" = 200'

OVERALL SITE PLAN



SCALE 1" = 10'

PROJECT AREA ENLARGEMENT

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

Geil Engineering
Engineering * Surveying * Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

T-MOBILE

Project Number/Name: SC70143A / Mother Lode

Project Site Location: 4382 Panorama Drive
Placerville, CA 95667
El Dorado County

Date of Observation: 08-24-22

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.

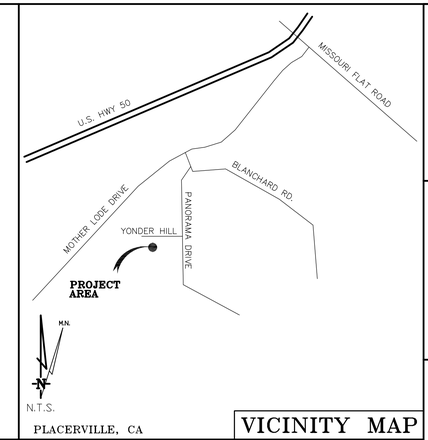
Type of Antenna Mount: Proposed Monopine Tower

Latitude: N 38° 41' 48.71" (NAD83) N 38° 41' 49.06" (NAD27)
Longitude: W 120° 51' 09.54" (NAD83) W 120° 51' 05.77" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1799.5' AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803



PLACERVILLE, CA

VICINITY MAP

DATE OF SURVEY: 08-24-22

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.72 FROM ELEVATIONS SHOWN.

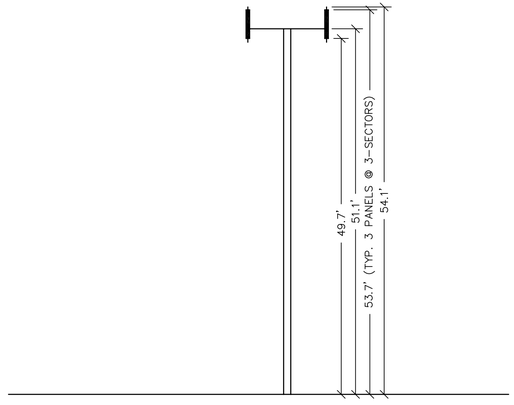
CONTOUR INTERVAL: N/A

THE LATITUDE AND LONGITUDE WERE DETERMINED USING TRIMBLE GEO-XT G.P.S AND UTILIZING PFINDER OFFICE DIFFERENTIAL CORRECTION SOFTWARE AT THE LOCATION SHOWN HEREON.

THIS SURVEY MEETS OR EXCEEDS FAA 1A ACCURACY TOLERANCES.

ASSESSOR'S PARCEL NUMBER: 329-162-003-000

OWNER(S): STEVEN & JODI SYRES
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667



TOWER DIAGRAM

FIGURE 2

DEPT | APPROVED | DATE
A&C
RE
RF
INT
EE\IN
OPS
EE\OUT

Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
Phone: (530) 885-0426
Fax: (530) 823-1309

T-Mobile

SC70143A
MOTHER LODE
4382 PANORAMA DRIVE
PLACERVILLE, CA 95667

PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS		
REV	08-24-22 N. ROHDE	DRAWING SUBMITTAL
REV	09-20-22 N. ROHDE	TOWER UPDATE
REV		
REV		
REV		

Sheet
C-1

Individual pines surrounding the monopole location; no oak resources will be impacted.

Photograph Date: 02/01/2023

Figure 3

Site Photographs

APN: 329-162-003
Mother Lode – Monopole Replacement Project
4382 Panorama Drive, Placerville, CA 95667

RADIO FREQUENCY - ELECTROMAGNETIC ENERGY (RF-EME) COMPLIANCE REPORT

Report Type: Antenna Modification/Theoretical

Site ID: SC70143A

Site Name: SF72XC532-CA1938

Address: 4382 Panorama Dr. Placerville, CA 95667

Date of Calculation: February 9, 2022

Date of Report: February 9, 2022

Latitude: 38.69676666 N
Longitude: -120.85259720 W

Prepared By:

Tiran Solutions Inc.

TABLE OF CONTENTS

1.0 Executive Summary / Report Summary

Purpose of Report

Tiran Solutions Inc. (TSI) has been contracted by T-Mobile to conduct radio frequency electromagnetic (RF-EME) modeling for T-Mobile site **SC70143A** located at **4382 Panorama Dr. Placerville, CA 95667** to determine RF-EME exposure levels from existing and proposed T-Mobile wireless communications equipment at this site.

This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields. This report contains a detailed summary of the RF-EME analysis for the site.
As described in greater detail in Section 7.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general population exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

T-Mobile Site Summary			
Site ID	**SC70143A**	**Street Address**	**4382 Panorama Dr.**
Site Name	**SF72XC532-CA1938**	**City, State, Zip**	**Placerville, CA 95667**
Site Type	**monopine**	**Latitude**	**38.69676666 N**
Classification	**occupational**	**Longitude**	**-120.85259720 W**
Access Restrictions	**controlled**	**Access Type**	**chain link fence gate**
Site Description	**all the antennas are mounted on monopine**		
Max Predictive RF-EME at T-Mobile Facility (Occupational)	**2.5% of FCC's occupational limit at ground level**		
Max Predictive RF-EME at Ground Level (General Population)	**12.6% of FCC'S general population limit**		
Predictive RF-EME Analysis at T-Mobile Facility	**In Compliance With FCC Rules & Regulations Upon Completion of the Recommendations**		

A result of over 100% does not make a site out of compliance with FCC guidelines. For predicted EME over 100% of the applicable FCC limit, further remediation (e.g. signage and/or barriers preventing access) is required to consider the site compliant. Areas exceeding the FCC limit are presented with the barriers and appropriate signages. Accessible areas outside the demarcated are the safety zones that have predicted EME values below the FCC's limits. Installation of the recommended mitigation or remediation measures brings the site into compliance. The predictions models antennas as if they are operating at full power, and this assumption yields a worst case scenario with more conservative results. On-site measurements may yield different results, as antennas do not always operate at full capacity.

Methodology

The site to be determined as the compliance is based on theoretical modeling using RoofView® modeling tool, appropriate RF signage placement recommendations, proposed antenna inventory as provided by T-Mobile in the construction drawings and the type & level of restricted access to the antennas at the site.

Compliance Statement

T-Mobile's operation at **4382 Panorama Dr. Placerville, CA 95667** will comply with FCC rules and regulations upon completion of recommendations that includes the installation of appropriate RF Safety Signages and/or Barriers as described in Section 9 and Appendix B.

2.0 MPE Calculations

For this MPE predictive analysis, TSI considered the area around the accessible areas of the T-Mobile antennas on the site to determine EME field strength levels with respect to the FCC's human exposure limits. Further TSI has identified any areas with higher levels exceeding FCC MPE limits and then determined spatially averaged field levels in areas with highest fields.

TSI has utilized computer generated modeling software RoofView® 4.15 to generate the compliance report.

Modeling & Input Assumptions

In this Site Compliance Report, it is assumed that

- All antennas are operating at full power at all times.
- The Antenna Inventory Table (Section 3) shows all transmitting antennas at the site.
- A 100 % duty cycle and maximum radiated power for each antenna is assumed unless T-Mobile has specified otherwise.
- Obstructions like (screens, trees, buildings etc.) that would normally attenuate the signal are not taken into account.
- TSI obtained information used in this Compliance Report from T-Mobile which is considered reliable and believes them to be true and correct.
- Due to the complexity of some wireless sites, TSI performed this analysis and created this report utilizing best industry practices and due diligence. The scales and the determinations are based on the A&E drawings provided by T-Mobile.

3.0 Antenna Inventory

ID	Technology	Frequency (MHz)	Input Power (Watts)	ERP (Watts)	Antenna Make	Antenna Model	Antenna Gain (dBd)	Azimuth (°)	Bottom of ANT from Ground (ft)
S1A1	L600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	90	56.00
S1A1	N600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	90	56.00
S1A1	L700	700.00000	40.0000	970.6440	RFS	APXVAALL24_43-U-NA20	13.85	90	56.00
S1A1	G1900	1900.00000	40.0000	1807.4238	RFS	APXVAALL24_43-U-NA20	16.55	90	56.00
S1A1	L1900	1900.00000	80.0000	3614.8476	RFS	APXVAALL24_43-U-NA20	16.55	90	56.00
S1A1	L2100	2100.00000	160.0000	7927.2031	RFS	APXVAALL24_43-U-NA20	16.95	90	56.00
S1A4	L2500	2500.00000	120.0000	22089.2640	ERICSSON	AIR6449 B41	22.65	90	58.62
S1A4	N2500	2500.00000	200.0000	36815.4400	ERICSSON	AIR6449 B41	22.65	90	58.62
S2A2	L600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	210	56.00
S2A2	N600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	210	56.00
S2A2	L700	700.00000	40.0000	970.6440	RFS	APXVAALL24_43-U-NA20	13.85	210	56.00
S2A2	G1900	1900.00000	40.0000	1807.4238	RFS	APXVAALL24_43-U-NA20	16.55	210	56.00
S2A2	L1900	1900.00000	80.0000	3614.8476	RFS	APXVAALL24_43-U-NA20	16.55	210	56.00
S2A2	L2100	2100.00000	160.0000	7927.2031	RFS	APXVAALL24_43-U-NA20	16.95	210	56.00
S2A5	L2500	2500.00000	120.0000	22089.2640	ERICSSON	AIR6449 B41	22.65	210	58.62
S2A5	N2500	2500.00000	200.0000	36815.4400	ERICSSON	AIR6449 B41	22.65	210	58.62
S3A3	L600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	330	56.00
S3A3	N600	600.00000	80.0000	1853.9157	RFS	APXVAALL24_43-U-NA20	13.65	330	56.00
S3A3	L700	700.00000	40.0000	970.6440	RFS	APXVAALL24_43-U-NA20	13.85	330	56.00
S3A3	G1900	1900.00000	40.0000	1807.4238	RFS	APXVAALL24_43-U-NA20	16.55	330	56.00
S3A3	L1900	1900.00000	80.0000	3614.8476	RFS	APXVAALL24_43-U-NA20	16.55	330	56.00
S3A3	L2100	2100.00000	160.0000	7927.2031	RFS	APXVAALL24_43-U-NA20	16.95	330	56.00
S3A6	L2500	2500.00000	120.0000	22089.2640	ERICSSON	AIR6449 B41	22.65	330	58.62
S3A6	N2500	2500.00000	200.0000	36815.4400	ERICSSON	AIR6449 B41	22.65	330	58.62

Table 3.1 Antenna Inventory

4.0 Signage At The Facility Identifying All WTS Equipment

AND SAFETY PRECAUTIONS FOR PEOPLE NEARING THE EQUIPMENT AS MAY BE REQUIRED BY THE APPLICABLE FCC ADOPTED STANDARDS

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. It is recommended that additional signage be installed for the new antennas making people aware of the antennas locations. The plan should be that there are no exposures above the FCC limits in front of the proposed antennas, however, wherever the exposures exceed the FCC limits in the front of the proposed antennas, barriers are recommended to control the areas with the exposures that are above the FCC limits. Additionally, there are areas where workers elevated above the roof/structure may be exposed to power densities greater than the general population and/or occupational limits. Workers and the general population should be informed about the presence and locations of antennas and their associated fields. Access to this site is considered open to public or occupational, based on the controls for access to the facility/structure, the assumption was made that there were no security mechanisms in place for general population and security mechanisms in place for the occupational population at the site for purposes of this report unless otherwise specified specifically by T-Mobile.

5.0 Statement On Who Produced This Report And Qualifications

Please see the certifications attached in Appendix A below.

6.0 Safety Recommendations

Occupational Safety and Health Administration (OSHA) Requirements

OSHA requires that those in the Occupational classification must complete training in RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
• Utilization of good equipment • Enact control of hazard areas • Limit exposures • Employ medical surveillance and accident response	• Employ Lockout/Tag out • Utilize personal alarms & protective clothing • Prevent access to hazardous locations • Develop or operate an administrative control program

RF Signage and Barriers

All RF signs should be obeyed by at all times.

Figure 6-1

If there are workers in an area with a sign that they do not understand, they can call the NOC Number at 877-611-5868 for guidance.

Based on the latest guidelines and rules issued by FCC on May 3, 2021, RF exposure advisory signs must be viewable and readable from the boundary where the applicable exposure limits are exceeded, pursuant to 29 CFR Section 1910.145, and include at least the following five components:

(A) Appropriate signal word, associated color {i.e., "**DANGER**" (red), "**WARNING**" (orange), "**CAUTION**," (yellow) "**NOTICE**" (blue)};
(B) RF energy advisory symbol;
(C) An explanation of the RF source;
(D) Behavior necessary to comply with the exposure limits; and
(E) Up-to-date contact information.

7.0 Federal Communications Commission (FCC) Requirements

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radio frequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general population.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

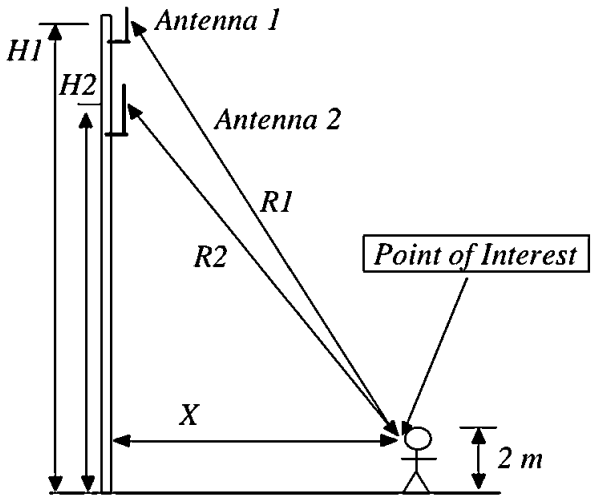


Figure 7-1

Table 7-1 and Figure 7-2 (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm2). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm2) and an uncontrolled MPE of 1 mW/cm2 for equipment operating in the 1900 MHz frequency range. For the T-Mobile equipment operating at 800 MHz, the FCC's occupational MPE is 2.66 mW/cm2 and an uncontrolled MPE of 0.53 mW/cm2. These limits are considered protective of these populations.

(A) Limits for Occupational/Controlled Exposure				
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	6|4	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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	6|4	1.63	(100)*	30
1.34-30	1842/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1	30

Table 7-1

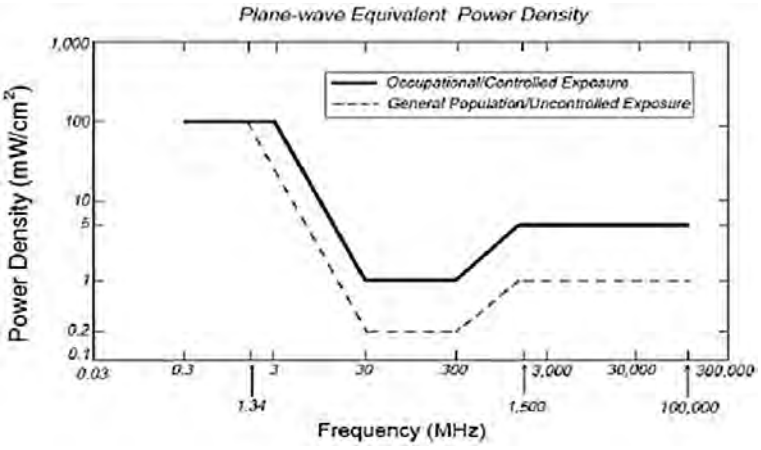


Figure 7-2

Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Cellular Telephone	870 MHz	2.90 mW/cm^2	0.58 mW/cm^2
Specialized Mobile Radio	855 MHz	2.85 mW/cm^2	0.57 mW/cm^2
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm^2	0.20 mW/cm^2

Table 7-2

Personal Communication (PCS) facilities used by T-Mobile in this area operate within a frequency range of 600-2500 MHz Facilities typically consist of:
1) Electronic transceivers (the radios or cabinets) connected to wired telephone lines; and
2) Antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 100% of the applicable MPE must participate in mitigating these RF hazards.

8.0 Limitations

This report was prepared for the use of T-Mobile. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by TSI are based solely on the information provided by T-Mobile. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to TSI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

9.0 Compliance Measures

The site needs the following mitigation and/or compliance plan.

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and the level of restricted access to the antennas at the site. At the time of our analysis, T-Mobile will be complaint with the FCC rules and regulations, as described in OET Bulletin 65 upon implementation of below remediation and/or compliance recommendations.

On monopine :

Recommendations for Site Compliance							
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER & CHAIN	
Access Point(s)	☒	☒	☐	☐	☒	☐	barrier & chain
Sector Alpha	☐	☒	☐	☐	☐	☐	barrier & chain
Sector Beta	☐	☒	☐	☐	☐	☐	barrier & chain
Sector Gamma	☐	☒	☐	☐	☐	☐	barrier & chain
Equipment	☒	☒	☐	☐	☒	☐	barrier & chain

CAUTION: - The table above represents EVERY compliance item that MUST be implemented by the carrier at the site location; please see the Site Plan shown in diagram 2.

It is recommended to have periodic inspections of the components that are involved in radiation of RF energy. Periodic Electromagnetic Emission (EME) measurement should be conducted to reevaluate the RF radiation level at this site.

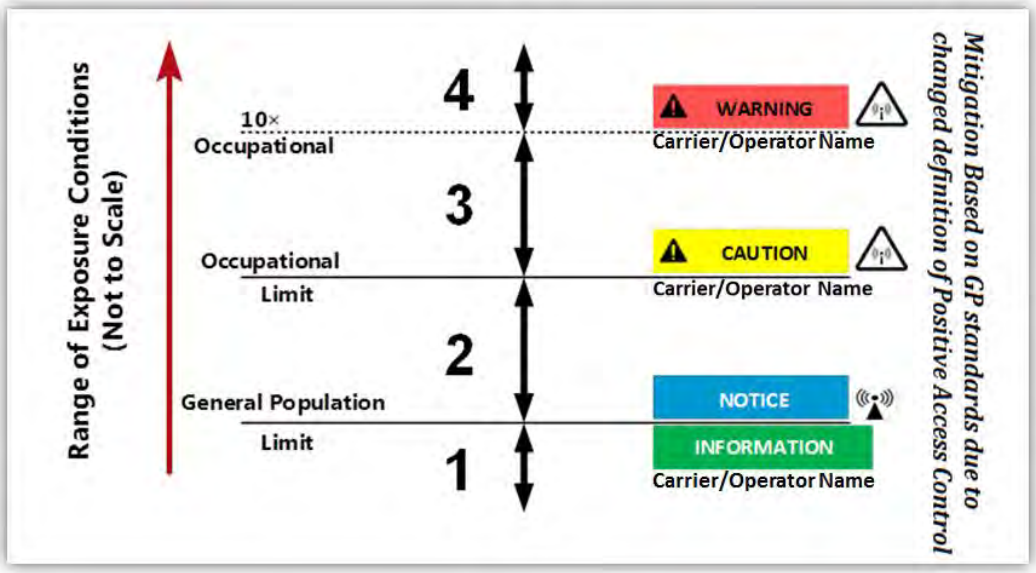


Figure 9-1

Diagram 1: Site View From Construction Drawing

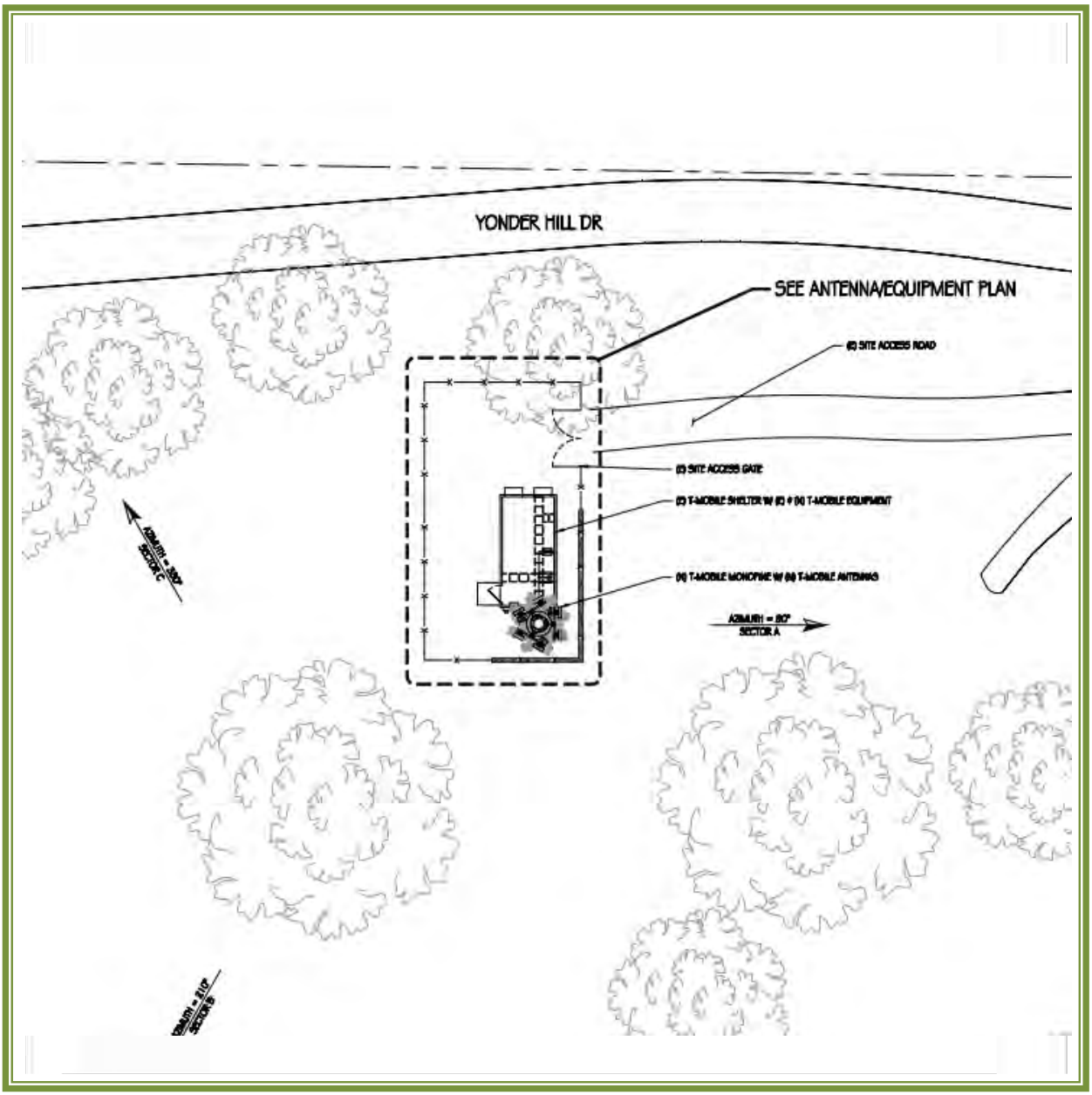
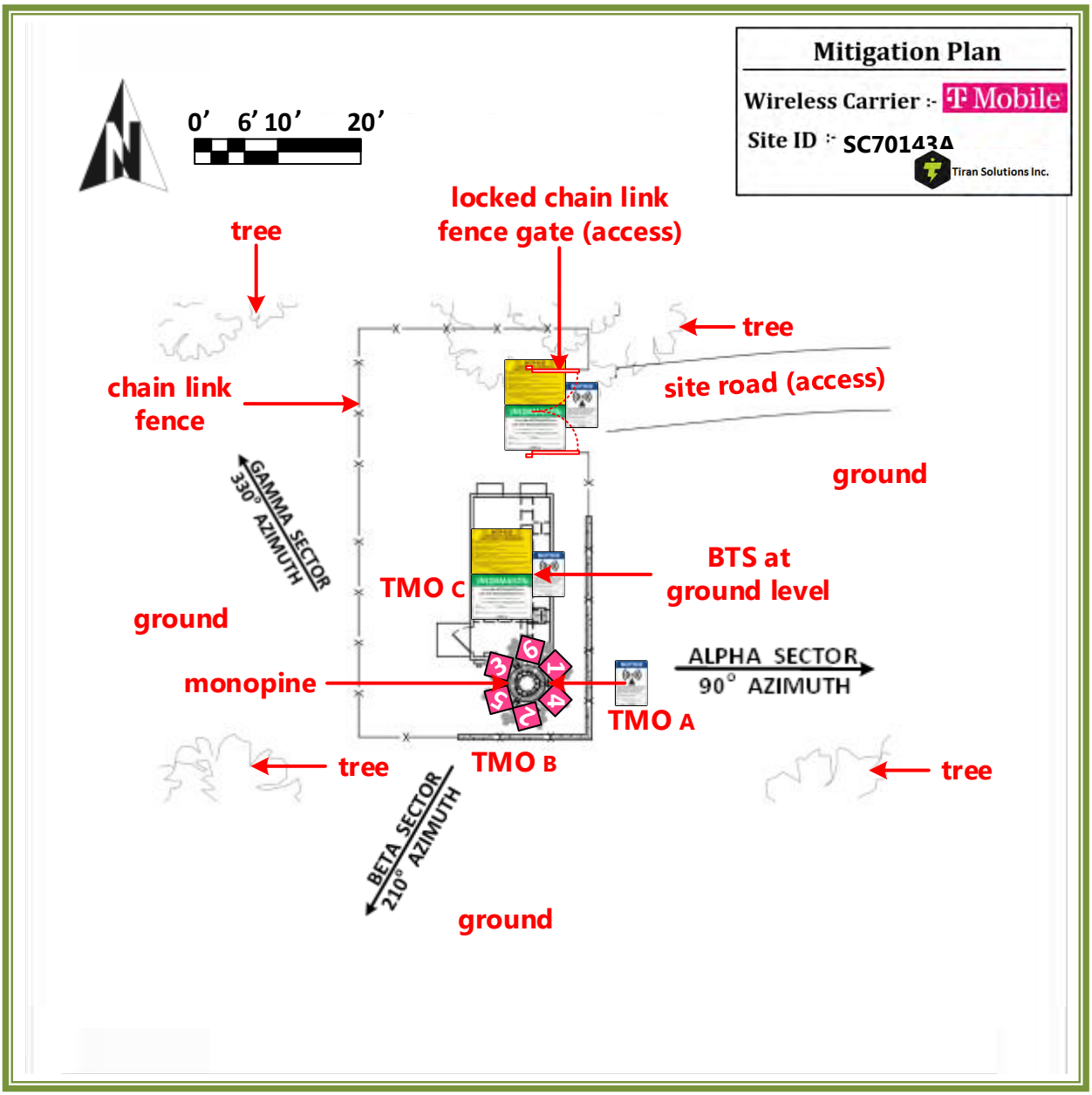


Diagram 2: Site Scale Plan



10.0 Summary And Conclusions

TSI has prepared this Radiofrequency Emissions Compliance Report for the proposed T-Mobile telecommunications equipment at the site located at **4382 Panorama Dr. Placerville, CA 95667.**

TSI has conducted theoretical modeling to estimate the worst-case power density from T-Mobile antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements.

As presented in the preceding sections, based on worst-case predictive modeling, **there are no modeled exposures on any accessible ground-level walking/working surface** related to proposed equipment in the area that exceed the FCC's **occupational** exposure limits at this site. Any of the modeled exposure areas exceeding the **occupational** limits need to follow the mitigation/compliance plan proposed in the report in order to bring the T-Mobile antennas to compliance. As such, the proposed T-Mobile project is in compliance with FCC rules and regulations. **Posting of the signages and the recommendations** presented in Appendix B **brings the site into compliance with FCC rules and regulations.**

At ground-level the anticipated maximum predictive RF-EME at T-Mobile facility will be 2.5% of FCC's occupational limit. This was determined through calculations along a radial from each sector taking full power values into account as well as actual vertical plane antenna gain values per the manufacturer-supplied specifications for gain. Based on worst-case predictive modeling, there are no areas at ground level related to the proposed antennas that exceed the FCC's occupational or general population exposure limits at this site. **At ground level, the maximum power density generated by the antennas is approximately 12.6% of FCC'S general population limit (2.52% of the FCC's occupational limit).**

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

Modeling indicates that there will be no accessible areas on the walking/working surfaces at the ground-level in front of the T-Mobile antennas that may exceed the FCC standards for general population and/or occupational exposure after implementation of mitigation measures. To reduce the risk of exposure and/or injury, TSI recommends that access to the **monopine** or areas associated with the active antenna installation or mitigation measures are restricted and secured where possible.

In order to alert any workers potentially accessing the site, a blue Notice sign and a yellow Guidelines sign are recommended for installation at the access to the rooftop/structure.

APPENDIX A

Certification

Certification

This report has been prepared under the direction of the following Registered Professional Engineer:

I **Michael A. McGuire PE**, on the date indicated near my seal below hereby certify that:

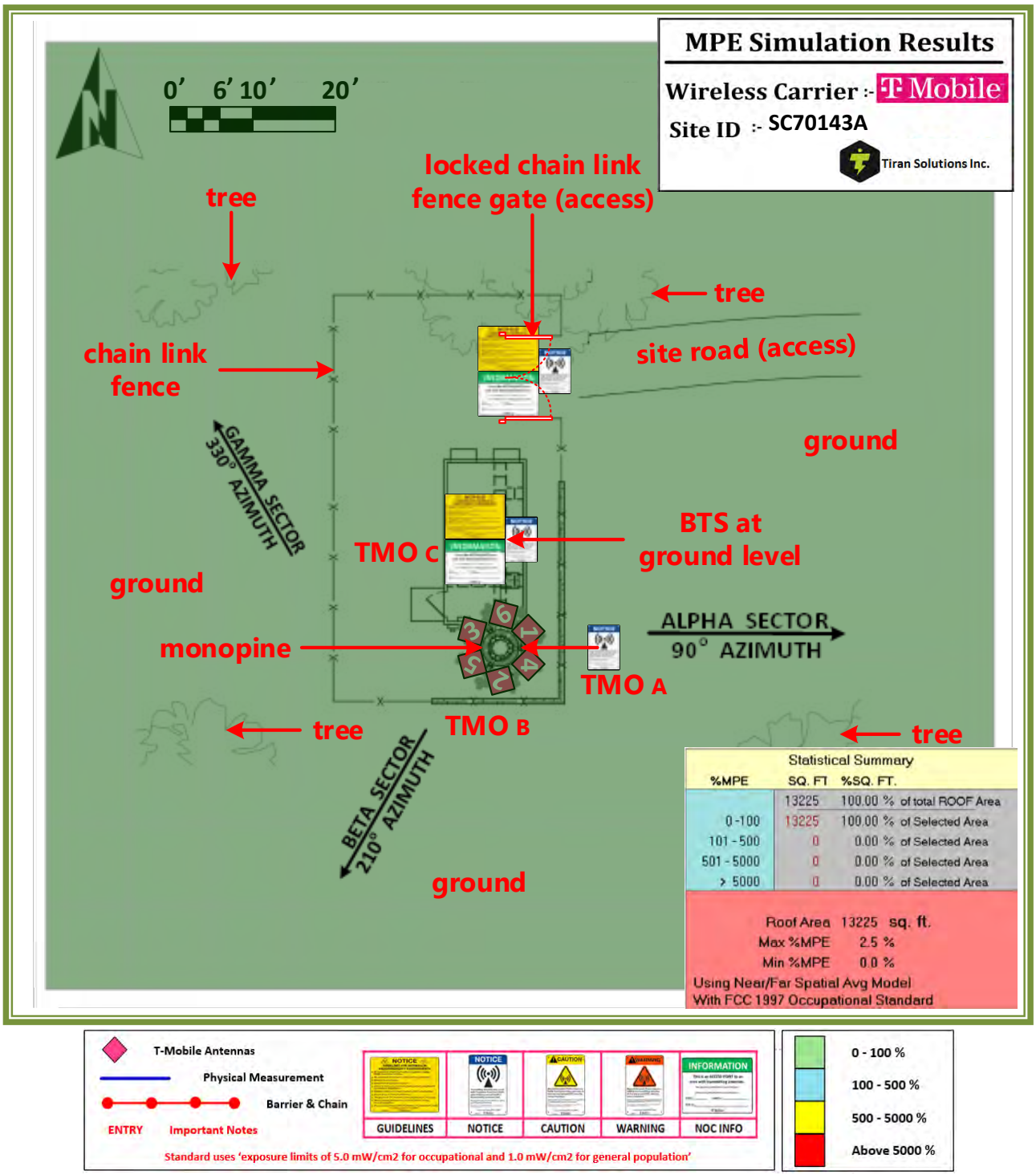
I am registered as a Professional Engineer with License number listed below and that I am thoroughly familiar with the Regulations of the Federal Communication Commission (FCC), both in general and specifically as they apply to FCC guidelines for human exposure to Radiofrequency electromagnetic radiation and the EME predictive analysis for site identified as **SC70143A** located at **4382 Panorama Dr. Placerville, CA 95667**, has performed on **February 9, 2022** in order to determine where there might be electromagnetic energy that is in excess of both the Controlled Environment and Uncontrolled Environment levels; and that I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge.

sealed 10feb2022 Electrical Engineer

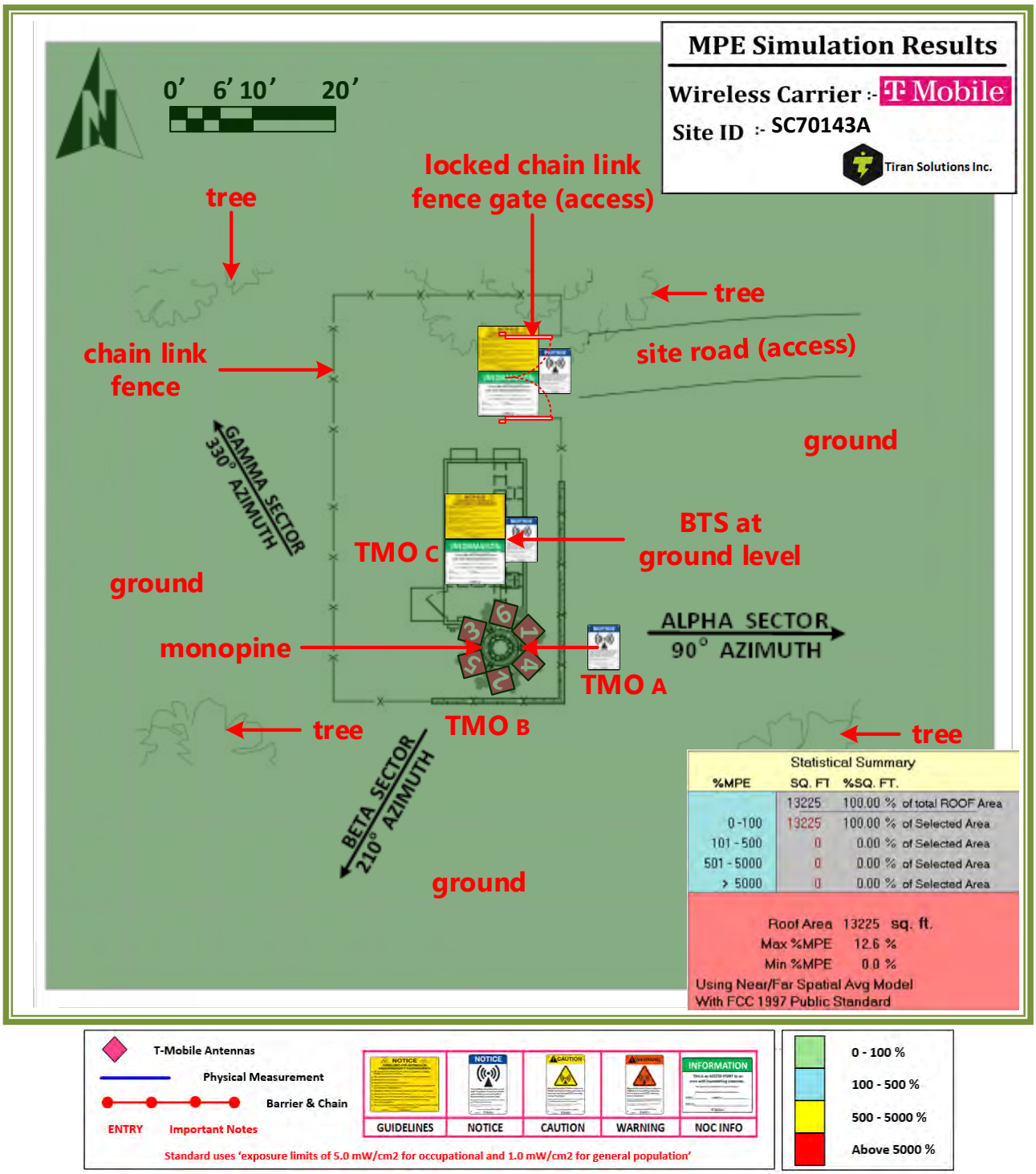
APPENDIX B

RoofView® Export File & Area Plot When Applicable/Pertinent

Predictive T-Mobile's RF contribution at nearest walking level from monopine for the occupational standard



Predictive T-Mobile's RF contribution at ground level for the
general population standard



APPENDIX C

Statement of Limiting Conditions

Statement of Limiting Conditions

TSI has run MPE predictive analysis with regards to the RF environment. For MPE Predictive analysis, TSI considered the accessible areas of the site to determine approximate field strength levels and to identify any areas with higher levels exceeding FCC MPE GPL limits and then determined spatially averaged field levels in areas with highest fields and documented in report. TSI will not be responsible for matters of a legal nature that affect the site of property.

Due to the complexity of some wireless sites, TSI performed this analysis and created this report utilizing best industry practices and due diligence. TSI cannot be held accountable of 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 TMO, the site manager, or their affiliates, subcontractors or assigns.

TSI 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 TSI's recommendations.

TSI may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the analysis of the subject property or that VERDOR became aware of during the normal research involved in performing this predictive study. TSI 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 TSI 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. The RF MPE is valid and accurate for RF Emitters data provided by TMO at the time predictive study analysis. TSI does not take any responsibility for FCC compliance of the site if the radio conditions have changed after that time.

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

APPENDIX D

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. TSI has further assumed a 100% duty cycle and maximum radiated power.

TSI 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 emission diagram(s) in this report. By modeling in this way, TSI 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.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model or "Other Carrier" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained from other sources. In the event of unknown information, TSI will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, TSI uses the closest frequency in the antenna's range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

APPENDIX E

Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE – General population 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 population is defined as anyone who does not meet the conditions of being Occupational. FCC 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.

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.

FCC 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.

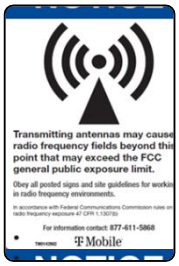
In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General population. Compliance is also maintained when any non-occupational individuals (the General population) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions 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.

APPENDIX F

General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General population 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 should be instructed to read and obey all posted placards and signs.
2. 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
3. Post the appropriate NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure diagrams, 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. The signs below are example of signs meeting FCC guidelines.



4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general population if deemed as policy by the building/site owner.
5. For a General population environment, the three-color levels identified in measured RF emission diagram can be interpreted in the following manner:
   - Green represents areas predicted to be greater than or equal to 0% and less than 100% of the MPE General population limits. The General population can access these areas with no restrictions.
   - Yellow represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE General population limits. The General population should be restricted from accessing these areas.
   - Red represents areas predicted to be greater than or equal to 500% of the MPE General population limits. The General population Should be restricted from accessing these areas.
6. For an Occupational environment, the three-color levels identified in a measured RF emission diagram can be interpreted in the following manner:
   - Green represents areas predicted to be greater than or equal to 0% and less than 20% of the MPE occupational limits. Workers can access these areas with no restrictions.
   - Yellow represents areas predicted to be greater than or equal to 20% and less than 100% of the MPE occupational limits. Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and can exercise control over their exposure.
   - Red represents areas predicted to be greater than or equal to 100% of the MPE occupational limits. Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and can exercise control over their exposure. Special procedures may be required such as transmitter power reduction to minimize workers exposure to EME.

APPENDIX G

References

1- Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields 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. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General population or Uncontrolled environment when human exposure to RF fields occurs to the general population or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General population or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2- Site Safety 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 operator 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 workers understanding of 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 locations (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 telecommunication 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.

Maintain a 3-foot clearance from all antennas:

There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

RF Emissions Diagram:

Section 7 of this report contains an RF Emissions Diagram that outlines various theoretical MPE/EME simulations and assumes a duty cycle of 100% for each transmitting antenna at full power. This analysis is a worst-case scenario. This analysis is based on one of two access control criteria: General population criteria means that the access to the site is uncontrolled and anyone can gain access. Occupational criteria means that the access is restricted and only properly trained individuals can gain access to the antenna locations.

3- Definitions

Compliance - The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation 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, this product is divided by the cable losses

Effective Radiated Power (ERP) - In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.

Gain (of an antenna in dBd) - The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of directional antennas as compared to a reference dipole.

General Population/Uncontrolled Environment - Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General population.

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, TSI will use our 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 Exposure Limit (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 Radio Frequency Radiation (RFR) 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.

Radio Frequency Radiation - Electromagnetic waves that are propagated from antennas through space.

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 H

Proprietary Statement

This report was prepared for the use of T-Mobile to meet requirements specified in T-Mobile's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under same/similar circumstances. The conclusions provided by TSI, are based solely on the information provided by T-Mobile and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to TSI, so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions of Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made. For any report or site specific questions, please contact Compliance Manager at TiranRai@tiransolutions-inc.com or (925)-238-8475.

CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT I - PHOTO-SIMULATIONS

Version Date: January 25, 2022

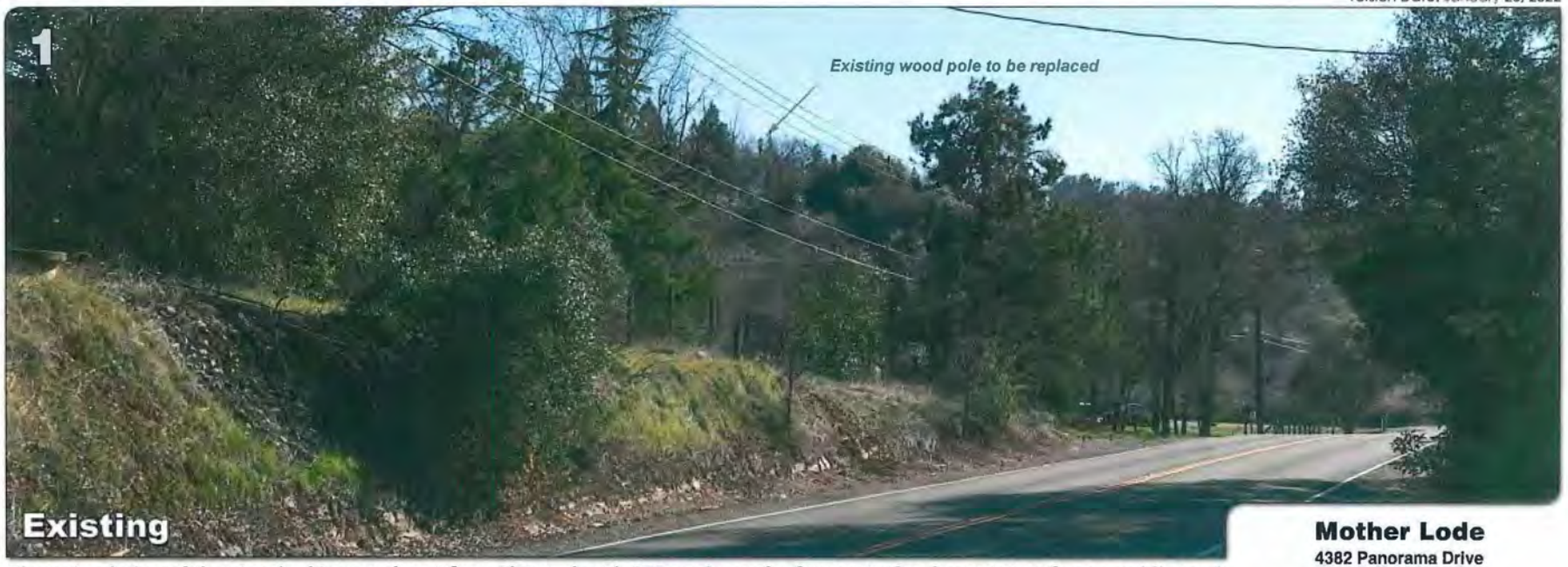
Mother Lode
4382 Panorama Drive
Placerville, CA 95667

T··Mobile·
Sprint: SF72XC532
T-Mobile: SC70143A

Aerial photograph showing the viewpoints for the photosimulations.

CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT I - PHOTO-SIMULATIONS

Version Date: January 25, 2022



Photosimulation of the view looking southeast from El Droado Rd, 250 yards south of Hwy 50, the clearest view from a public road.

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CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT I - PHOTO-SIMULATIONS

Version Date: January 25, 2022

Photosimulation of the view looking west-southwest from the access driveway along Yonder Hill Road, a private drive.

CUP-R22-0018 SYRES CELL TOWER REPLACEMENT
EXHIBIT I - PHOTO-SIMULATIONS

Version Date: January 25, 2022

Photosimulation of a typical view along Panorama Drive, with no unobscured views of the existing or proposed tower.

Mother Lode
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Placerville, CA 95667

T··Mobile·

Sprint: SF72XC532
T-Mobile: SC70143A

COUNTY OF EL DORADO - ENVIRONMENTAL MANAGEMENT DEPARTMENT

2850 FAIRLANE COURT, PLACERVILLE, CA 95667 (530) 621-5300
3368 LAKE TAHOE BLVD. #303, SOUTH LAKE TAHOE, CA 96150 (530) 573-3450

Hazardous Materials Statement
Solid Waste/Hazardous Materials Division (SW/HM)

Owners Name: STEVEN SYRES	**Date:**	**Time:**
Operators Name: T-Mobile West, LLC	**Business Lic. or Permit/Plan Check #:**	
Facility/Business Name: T-MOBILE WEST LLC	**Phone:** 916-997-8213	
Physical Address: 4382 Panorama Drive Placerville, CA 95667	**Mailing Address:** 25 Cadillac Dr. # 208 Sacramento, CA 95825	

Brief Business Description:
(E) Telecommunications facility. Proposing to remove (E) wood monopole and replace it w/ (N) monopole

Please answer Yes or No to the following questions:

Note: The term "hazardous materials" includes gasoline, diesel, lubricating oils, solvents, flammable liquids and solids, toxic liquids and solids , corrosive liquids and solids, explosives, radioactive materials, and compressed gases, including propane when used for purposes other than facility heating.

	Yes	No
A. Will this facility have on site for any purpose individual liquid hazardous materials in quantities equal to or greater than 55 gallons regardless of container size?	☐	☑
B. Will this facility have on site for any purpose individual solid hazardous materials quantities equal to or greater than 500 pounds regardless of container size?	☐	☑
C. Will this facility handle individual compressed gases in quantities equal to or greater than 200 standard cubic feet regardless of container pressure?	☐	☑
D. Will this facility have on site for any purpose extremely hazardous substances in any quantity as specified in 40 CFR Part 355?	☐	☑
E. Do you own or operate any underground storage tanks?	☐	☑
F. Will this facility generate or treat hazardous waste in any quantity?	☐	☑

If your facility will store reportable quantities of hazardous materials (55 gallons) or generate hazardous waste, prior to commencing operations the owner/operator must:
Prepare, submit and implement a hazardous materials business plan and pay appropriate fees.

- Obtain a hazardous waste generator identification number from the California Department of Toxic Substances Control.
- Train all employees to properly handle hazardous materials and wastes.
- Implement proper hazardous materials and hazardous waste storage methods in accordance with the Uniform Fire Code and Uniform Building Code.

Business owners and operators intending to handle hazardous materials in excess of reportable quantities are required by law to complete and file a hazardous materials business plan with our Department **prior to obtaining a business license or prior to having the materials onsite, whichever comes first.** Hazardous Materials Business Plan forms are available at http://www.edcgov.us/emd/solidwaste/bus_plan_index.html

Certification: By signing below I acknowledge my responsibility to comply with the hazardous material and hazardous waste laws and regulations enforced by the EDC Environmental Management Department and agree to prepare and submit a plan when required.

Applicant: Martin J. Vlaar - Agent for T-Mobile **Date:** 3-23-22

SW/HM Approval:	**Date:**

RECEIVED
MAR 25 2022
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

CUP-R22-0018