

## **GOLDEN FOOTHILLS**

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

MDG LOCATION ID: 5000063898 PROJECT ID: 16870411

APPROVED **EL DORADO COUNTY** PLANNING COMMISSION

DORADO HILLS, CA 94585

verizon<sup>v</sup>

GOLDEN

**FOOTHILLS** 4994 HILLSDALE CIRCLE, EL

2770 SHADELANDS DRIVE, BUILDING WALNUT CREEK, CA 94588

EPIC WIRELESS GROUP LLC

MDG LOCATION ID 5000063898 PROXCED 16970411 DRAWN BY CHECKED AY LIGPAY APPROVED BY

05/07/24 CLIENT REV C.I.C. 1 03/26/24 CLIENT REV S.D.

PREL MINARY: NOT FOR

ZD 90%

0 02/23/24

CONSTRUCTION KEVIN R. SORENSEN 54463

BEALESCAPES, YOUNGER AND PERSON ASSESSED FOR ACTED OF SERVICE ACTION OF SERVICES AND ACTION

Streamline Engineering

TITLE SHEET

T-1.1

## VICINITY MAP



A (N) VERLION WRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING.

(N) VERIZON WHELESS 9-5"x19"-0" (179 SQ FT) LEASE AREA

W 12" 03" 45.03" NAD 83 W 121 062508 NAD 83

... (UNMANNED COMMUNICATIONS FACILITY)

- (9) (N) & (3) (F) ANTENNAS (6) (N) & (3) (F) RADOS O ANTENNAS
- (4) (N) HAYCAP 6627 SURGE SUPPRESSURS. (2) O EOLIPHENT & (2) O ANTERNAS
- (N) EQUIPMENT CABINETS
- (N) UNLINES TO (N) SITE LOCATION

#### PROJECT INFORMATION

PROJECT DESCRIPTION

S'E NAME	GOLDEN FOOTH S
MOG LOCATION IO	5000063898
COUNTY	FI DORADO
JURISJRC'ION	EL DORADO COUNTY
APN	117-684-005-000
STE ADDRESS.	4174 THESTAL CIRCLE THE DESIGNATION WILLS, CA 91585
CORRENT ZONING	VACANT/INDUSTR AL
CONSTRUCTION TYPE	V-B
CCCUPANCY TYPE:	J, (JAMANNED COMMUNICATION
POWER	PGME
3CUPITAL	N 38" 37" 30.78" NAD 83 NAD 83

LONGITUDE

CROUND ELEVATION

GOLDEN FOOTH S PROPERTY OWNER

APPLICANT:

LEASING CONTACT

ZONING CONTACT

CONSTRUCTION CONTACT:

SITE ACQUISITION COMPANY

VERIZON WRELESS 2770 SHADELANDS DRIVE, BLDC II WALNUT CREEK, CA 94598

COLD RUSH HILL A CALLC 1761 HAWKS FLIGHT COURT, SUPE H EL BORADO HILLS, CA 95762

EPIC WIRTLESS GROUP 806 COOLIDGE DRIVE, SUITE 100 FOLSOM, CA 95630

ATTN. JASMINE LEARY (209) 923-3097 Jask neleary bepichreless net

ATTN. JASMINE LEARY (209) 923-3097 JASA NELEARYBEPICHRELESS NO

ATTN: BRETT EWNG (916) 844 9324 BRETTEWNOGEFICWRELESSINGT

CODE COMPLIANCE ALL WORK & MATERIALS SHALL BE FERFORMED & INCIDATED IN ACCORDANCE WITH THE CURMENT EDITIONS OF THE FOLLOWING. CODES AS ADDOPTED BY THE LOCAL CONSTRUME AUTHORITIES, NOTHING IN THESE PLANS IS TO DE CONSTRUED TO PERSET WORK

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TILE 24 C.C.R. 2022 CALIFORNIA BULDING CODE (CBG), PART 2, VOLUME 182, TITLE 24 C.C.R.
(222) INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDIALNESS

(2)22 UN FORM MICHARILAL CODE, AND 2022 CALIFORMA AMENDMENTS)
2022 CALIFORMA PLUMBING CODE, (CPC), PART 5, THE 24 C.C.R.
2022 CALIFORMA PLUMBING CODE (AND 2022 CALIFORMA AMENDMENTS)
2022 CALIFORMA PIRE CODE, PART 9, THE 24 C.C.R.
2022 CALIFORMA OFFEN BLUMBING STANDARS CODE, PART 11, THE 24 C.C.R.
2022 CALIFORMA PETERIOLED STANDARS CADE, PART 11, THE 24 C.C.R.
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2022 CALIFORMA PETERIOLED STANDARS CADE, PART 11, THE 24 C.C.R.
2022 CALIFORMA PETERIOLED STANDARS CADE, PART 11, THE 24 C.C.R.

ALONG WITH MAY OTHER APPLICABLE LOCAL & STATE LAWS AND RECULATIONS

DISABLED ACCESS REQUIREVENTS

THIS FACULTY IS UNMANNED & NOT FOR HUMAN HABITATION DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE MITH CAUFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 113-203.5

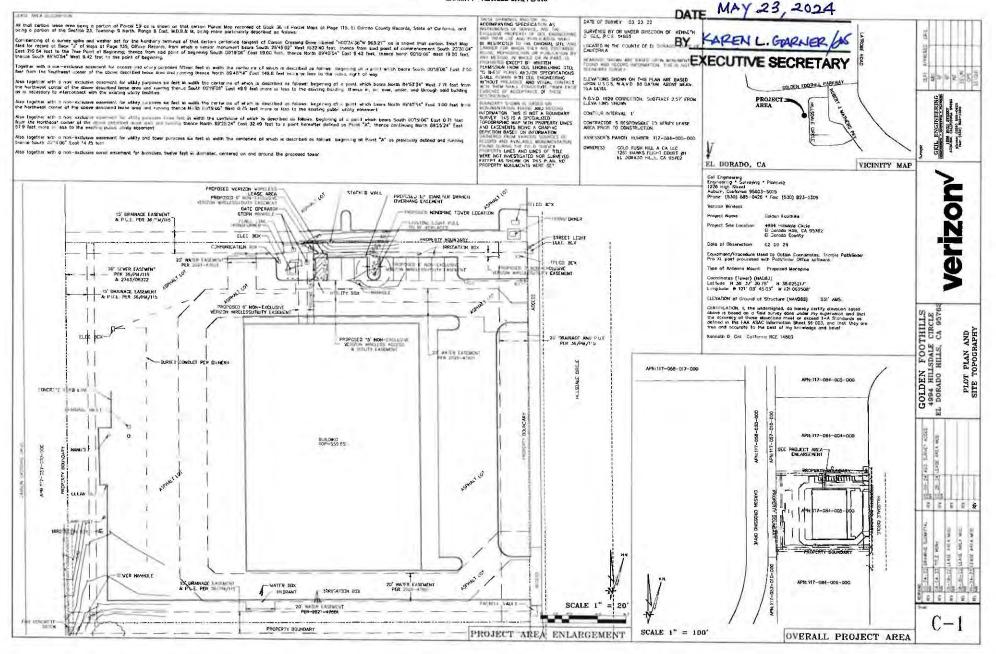
#### SHEET INDEX

SHEET	DESCRIPTION	REV	T SHEET	DESCRIPTION	90
T-1.1 C 1 A-1.1 A 1.2 A 1.3 A 2.1 A-5.1 A-4.1	IIILE SHEET TO COPA HIC SURVEY OVERALL SHE PLAN ENLARGED SHE PLAN ECUPPHENT PLAN ANTENNA PLAN ELEVATIONS DETAILS	2 2 2 2 2	SHEET	DESCRIPTION	RE
E-1.1	ELECTRICAL PLAN	2			

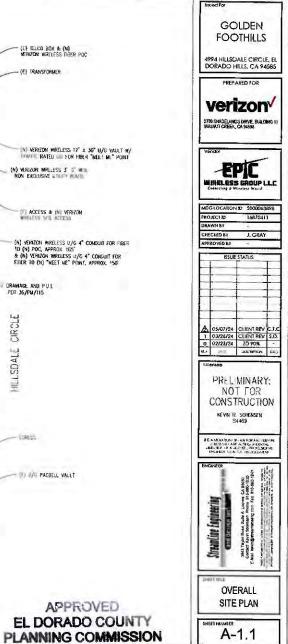
## **APPROVED** EL DORADO COUNTY

#### CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT F - REVISED SITE PLANS

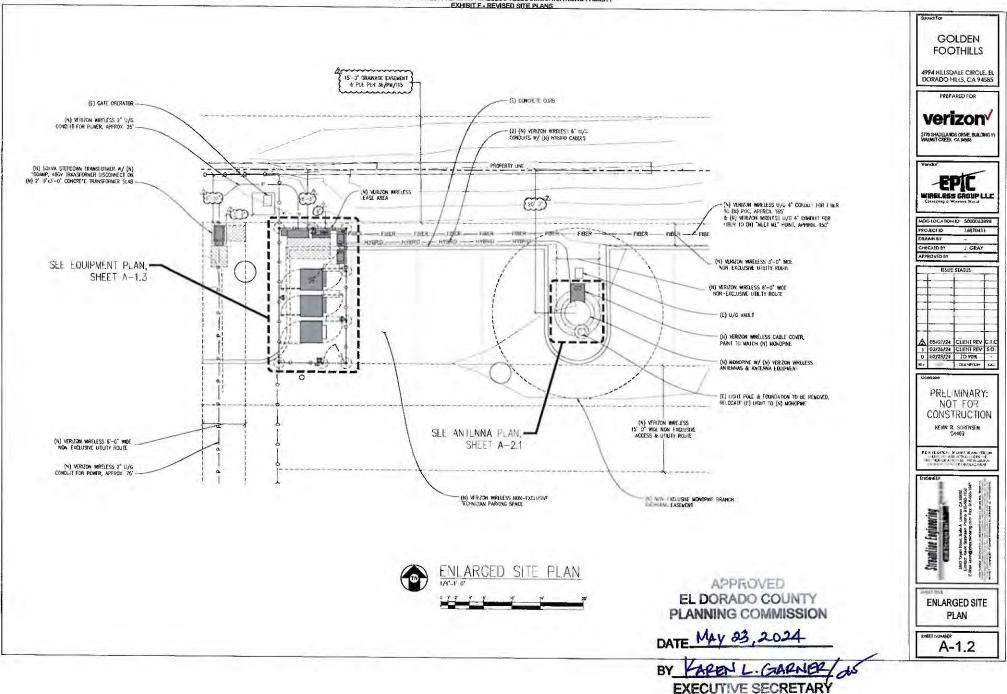
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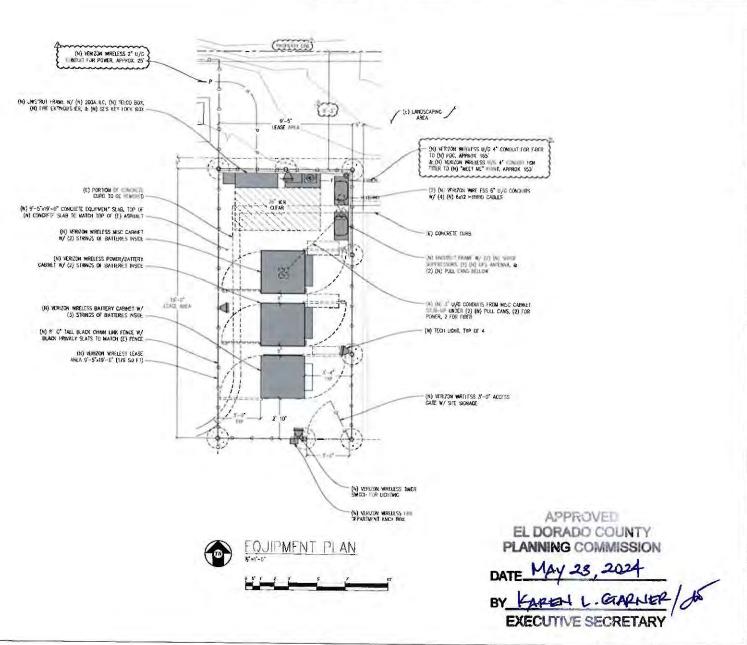


15'-0" DRAINACE FASSMENT & PUE PER 36/PM/115



**APPROVED** EL DORADO COUNTY





GOLDEN FOOTHILLS

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR

verizon/

2770 SHADELANES DRIVE, BUILDING 1 WALNUT CREEK, CA 94598

EPIC
WIRELESS SROUP LLE
CHACONY & Numer World

MDG LOCATION ID 5000023898
PROJECT ID 16870411
DRAWN BY
CHECKED BY J. GRAY
APPROVED BY

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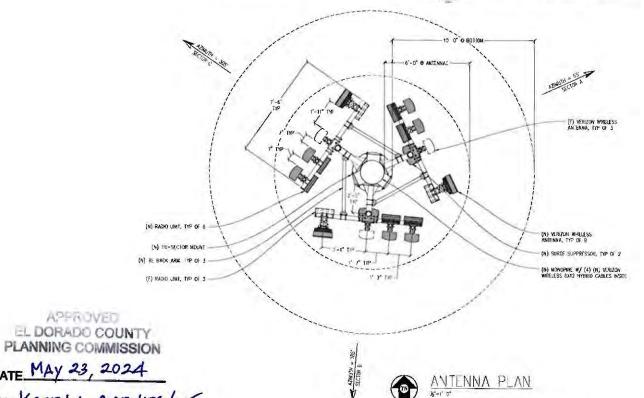


EQUIPMENT PLAN

A-1.3

#### CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT F - REVISED SITE PLANS

1					ANTENN	A & CABL	E SCHEDULE (PA	ELIMANAF	IY & SUBJEC	I TO CHANCE)						
1	-		ANTRINAS	NRL'S				CABLING								
	SEFTOR	IECHNOKOCA.	ANTERNA MODEL	NO OF COAX PORTS	CENTER	A7MUTH:	RRU MOÓEL	NO OF RRUS	NO OF	SIZE OF HYBRID CAOLES	LENGTH OF CABLES	NO. OF COAX CARLES	EDAX DIA	SUPPRESSOR	NO. OF DIPLEMENS	NO, OF
	Al	LTE 700, PCS, AWS, AWS3, 50 850	CONNECOPE THE - HZH	6	(77 6	92.	RACKO 4490 LIMIT		SHARED	SHARKED	SHURED	0	- 1	SHARES	0	0
FCTOR	A2	LTE 700, PCS, AWS, AWS5, 5G 850	COMMISCOPE WHIH-658-R28	5	72' 0"	65.	RADIG 4890 UNIT	1	SHARED	SHARED	SHARED	0		SHARES	0	0
5.	AS		FURRE		32'-G"	65'	FUTURE RACIO	0	2	6X12	100	0		(1) 6627	٥	B
	84	5C	API 6419	0	75 9	65"	INSCRAND	0	SHARED	SHARED	SHARED	0	-	SHARED	0	0
	81	NT 700, PCS, AWS, AWSS, 5G 850	COMMISCOPE MINI-658-R28	6	72'-0" }	185	RADIO 4490 UNIT	1	SHARED	SHARED	SHARED	0		SHARED	a	0
5	132	LIE JOB PCS, AWS, AWLS, NO BIN	DMMSCOPE MON-656-R28	£.	72'-0'	185*	RADIO 4890 UNIT	- 1	SHAND	SHANED	CHARE	a	- mer	SHARED	0	0.
2	85		FUTURE		39° m²	185*	FUTURE RADIO	0	2	6X12	126*	a	-	(1) 6627	a	0
	Bŧ	50	AR 6419	0	15-9	185"	CHARDEN	0	SNARED	SHARED	SAURED	0		SHARE	D	n
	CI	1.8: 300, 955, AMS, #953, 50 850	COMMISCOPE MINI-658 R28	6	72'-6"	305*	RADID 4490 UNIT	- 1	SHARED	SHARCO	SIARD	0		SHARED	0	0
5	C2	LR, FOIL PCS, AMS. ANSAS SO, BSI	COMMSCOPE MINI-658-R28	6	n-0 }	305	RADIO 4890 UNIT	ā	SHARED	SHARED	SHARED	9	1.0	SHARED	0	0
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3	C4	50	AR 6419	a	375-5	305*	INTEGRATED	0	SHARED	SHARED	SHARED	0	4	SHARED	0	0



NOTE: 1 ANTENHA POSITIONS ARE LEFT TO RIGHT FROM BACK OF SECTOR 2. EQUIPMENT IS PRELIMINARY & SUBJECT TO CHANGE

GOLDEN **FOOTHILLS** 

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR verizon

2770 SHADELANDS DRIVE, BUILDING 1 WALNUT CREEK, CA 94598

WINELESS GROUP LLC

MDG LOCATION ID:	5000063898
PROÆCTIO	16870411
DRAWN BY	
CHECKED BY	J. GRAY
APPROVED BY	

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PREL MINARY: NOT FOR CONSTRUCTION

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ANTENNA PLAN

A-2.1

NOTICE

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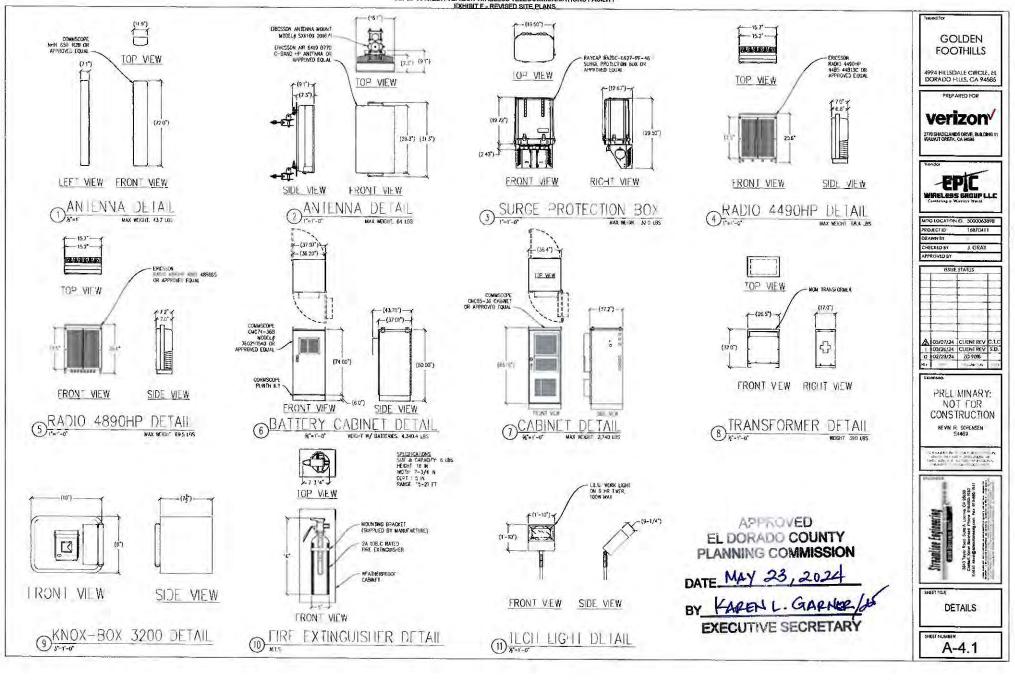
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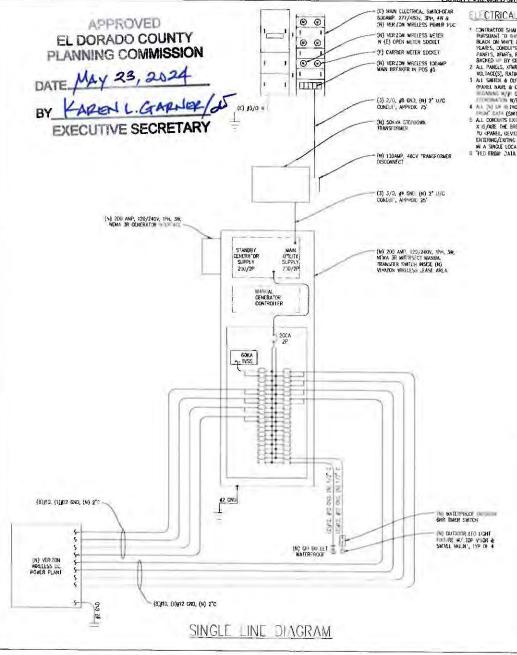
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BY KAREN L. GARNER JOS EXECUTIVE SECRETARY

APPROVED



#### CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT F - REVISED SITE PLANS



#### ELECTRICAL LABELING REQUIREMENTS

- \* CONTRACTOR SHALL LABEL ARE DISCURDED IN VIOLENCE OF ALTERO PROBLEM TO HAS CONTRACT FOR THE FOLLOWING. LISTS SHALL BE PREMARKED BANKS ON HAVE PELL & STOK LABEL MAKEN THE FOR ALL SWITCH & OUTLET FLAIRS, CONDUITS AND TOLKING HAUNDES, AND SHALL BE PRIMICED THE PRAMES, SWITCH, PULL BOOKS, FULL BOOKS, AND SHALL BE FOR ON INCOME MEDICAL PROBLEMS, SWITCH, PULL BOOKS, FULL BOOKS, TOLK PHONOIC TORS SHALL BE FOR ON INCOME MEDICAL PROBLEMS. BACKED - BY CENERATOR
- O ALL PANELS, XTHER'S AND PLLL BOXES SHALL BE LABELED WITH DEVICE NAME, WOLTACE(S), RATING FOR XTHER'S, AND TED FROM DATA
- 3 ALL SMICH & CUILET FLATES SHALL BE LABETT WITH "FFD A A (PANEL NAVE & CIR. III g); ALL BANG SWICHES SHALL MAIN LIGHTING SWITCH FOR EACH ROOM FOR
- 4 AL JUN TROUTTED OFF NO SHALL BE LABELED WH HITHE "FED (SMTCH)"
  5 ALL CONCUTS EXIDING A PANCE BOAS, SHALL DE LABELED "ORGUN'(S)" X; " WHERE X IS/ARE THE BREAKERS(S) CONDUCTS EXTING XTMR'S SHALL BE LABELED TREEDER TO SPANEL, DEVICES, E.G. TREEDER TO PANEL Spanel names CONDUCTS. ENTERNACIONNA A ROOM OR FLOOR SHALL BE LADELD AT THE ENTRY & COT (OR IN A SHALL LOCATION IF NEWCLS) W/FED FROM " & "TO PANEL/XFWR/" "DATA B" FED FROM: "2AIA = Sponel nome> Scholp's E "PANEL X/1.3.5")

M

7

d

ELECTRIC LEGEND

CIRCLIT BREAKER

SERVICE CROUND WALD CONNECTION

OUTDOOR JEHT

IMER SWITCH, WATERPROOF

CEL CUTEFT, WATERPROOF

#### **ELECTRICAL NOTES**

- I. ALL FLECTRICAL WORK SHALL CONDOM TO THE 2017 EC AS WILL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES. COMPRACTO SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PAGS, PIDE FRSHS, AND PROTORD ALL REKORDING AND RECORDING

- REQUERTO IN THE PLANS
  ALL ELECTRICAL IESUS SHALL BE ULL APPROVACE DE LE MAIO PRODURED PUR PLAN DECUCICA DURS.
  ALL DECRUTA DURS.
  ALL DECRUTA DURS.
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- APPLICABLE COORS

  6. LICETRICAL WHING SHALL BE COPPER #12 AND JAIN WITH TYPE THEM, FWW-2 OR

  1189 Z. INSULATION RAT DE FOR STC DEF OR

  ALL COLLOCAL CEGE WHAT SHALL HAVE BEAM AS EMPLOSHED

  8. ALL BREED WHIT SHALL RAIN THROUGH SOFTWALE TO FAVO COMOUNT DRIESS

  OTHERWISE AND THE SHALL RAIN THROUGH SOFTWALE TO FAVO COMOUNT DRIESS

  OTHERWISE AND THE STATE OF THE PULLED HE ALL COMDING.

  9. A GROUND WAY. "S TO BE PULLED HE ALL COMDING."

  10. MREFE ELECTRICAL WHOME COCKING DUTSICE AS STRUCTURE AND HAS THE POTENTIAL

  (OR COPPOSITE TO MATTHER, WHITE STALL BE IN WATERBEST CALVANIZOD RIGO.

  STELL OF LICEMED COMPOSIT
- 11 WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMIT CONTRACTOR SHALL VEREY PLAN DETAILS WITH DIE UTLITY'S SERVICE CONTINUE OF STOLL WART THAN IN THAN IN THE UDUST SES SHARE.

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  WE'NE, AND ACC RECORT, AND SHALL BE WIN CLASE CRATON, FROB. THE PROJECT

  CORRIERS OR AN TO VARIONS FOUND IN THESE, PLAN

  WE'RE THESE PLANS SHOW A CO POINT PLAN), THE INSTALLATION OPERATING AT LESS THAN SHOW CO-AMPROLINEDS, 2 MRS, SHALL CORPLY WITS ARRIVE ZOO, AS
- FOLLOWS

- THE MAN OF SECURIOUS AND ASSESSMENT OF THE WROLLD'S CAMBER AS A PULL "AS POWER HAT SHALL BE SAMPLED BY THE OWNERACES CAMBER AS A PULL" AND ASSISTED BY THE CONTRACES.

  CONDICIONES SHALL NOT BE SHALL BY THAN DIE APPLIANCE SHALL BY O AND THE MAN OF ANY CONTRACES.

  CONTROLLED SHALL NOT BE SHALL BY THAN DIE APPLIANCE SHALL BY O AND THE MAN OF T
- VOLTAGE

  ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BULLING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, H SUCH A. MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE

#### GOLDEN **FOOTHILLS**

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR

### verizon



MOG LOCATION ID	5000063898
PROJECTIO	16870411
DRAWN BY	
CHECKED BY	J. GRAY
APPROVED BY	

	ISSUE	STATUS	
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A	05/07/24	CLIENT REV	C.I.C
1	03/26/24	CLIENT REV	S.D.
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PRFI MINARY: NOT FOR CONSTRUCTION

H + R SORENSEN 54469

BE A MEANING OF CHARLEST AND PERSONS IN CONTROL OF CHARLES OF CHAR



ELECTRICAL PLAN

SHEET NUMBER E-1.1

### (N) PANEL SCHEDULE

NAMEPLATE : I			SC	LEVEL	: 10,1	000	VOLTS: 120	V/240V, 18	
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ØA	- 10		BKR			BiR		-84	- 20
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	30				4				2747
		ILANA.	-	15	6	3072		2292	
			- 14	7	6			1 200	3292
2292		(N) DC PUMER PLANT	30/2	18	10	30/2		2292	24.50
	2292			-tr	12			1	2292
2292			30/2	13	14	30/2		7282	7434
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ICTAL RVA +	37.21							-	

**APPROVED EL DORADO COUNTY** PLANNING COMMISSION

CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY **EXHIBIT 2I - PHOTOSIMULATIONS** 

DATE MAY 23, 2024

Version Date: March 18, 2024

BY KAREN L. GARNER/ON

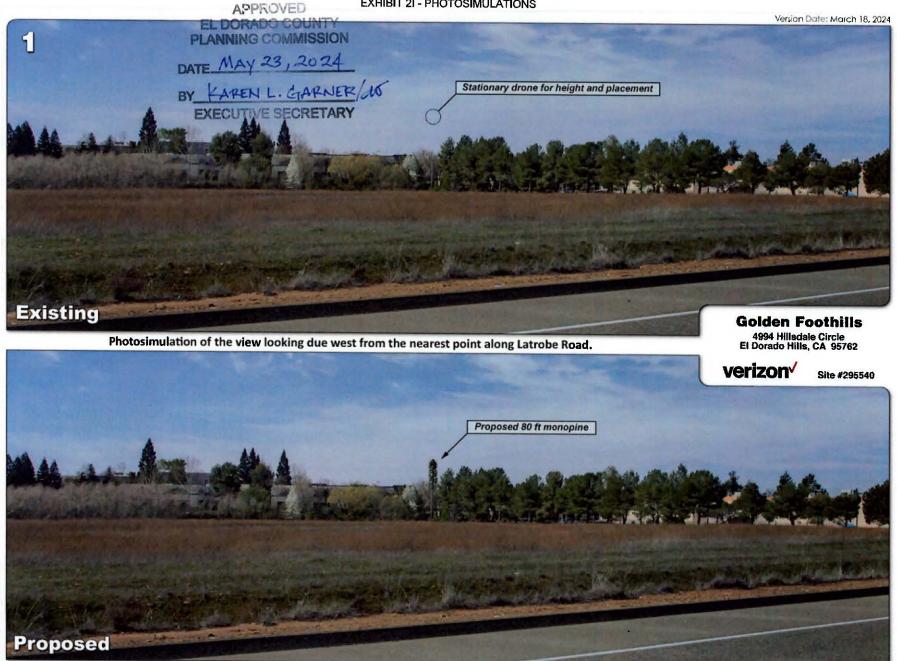
**EXECUTIVE SECRETARY** Aerial photograph showing the viewpoints for the photosimulations.

**Golden Foothills** 



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# CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT 2I - PHOTOSIMULATIONS



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# CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT 2I - PHOTOSIMULATIONS

Stationary drone for height and placement

APPROVED

EL DORADO COUNTY

PLANNING COMMISSION

DATE MAY 23, 2024

BY L'AREN L. GARNER AN

EXECUTIVE SECRETARY

Golden Foothills

Photosimulation of the view looking north-northwest along Hillsdale Circle.

4994 Hillsdale Circle El Dorado Hills, CA 95762



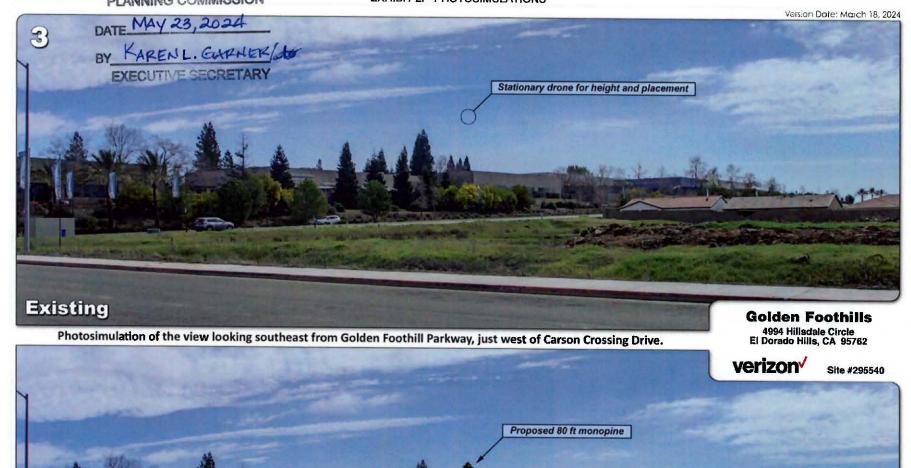
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APPROVED

**Proposed** 

PLANNING COMMISSION

EL DORADO COUNTY CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY **EXHIBIT 2I - PHOTOSIMULATIONS** 



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# CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY EXHIBIT 2I - PHOTOSIMULATIONS APPROVED

Photosimulation of the view looking east from Pacifico Lane at Sol Vista Lane.

Version Date: Morch 18, 2024

PLANNING COMMISSION

Stationary drone for height and placement

APPLICATION

Stationary drone for height and placement

Stationary drone for height and placement

APPLICATION

Golden Foothills

4994 Hillsdale Circle

EI Dorado County

Planning Commission

Golden Foothills

4994 Hillsdale Circle

EI Dorado Hills, CA 95762

Proposed

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# APPROVED EL DORADO COUNTY PLANNING COMMISSION

EXHIBIT 21 - PHOTOSIMULATIONS

PLANNING COMMISSION

Version Date: March 18, 2024

DATE: Mary 23, 2024

BY HAREN L. GARNER/Job

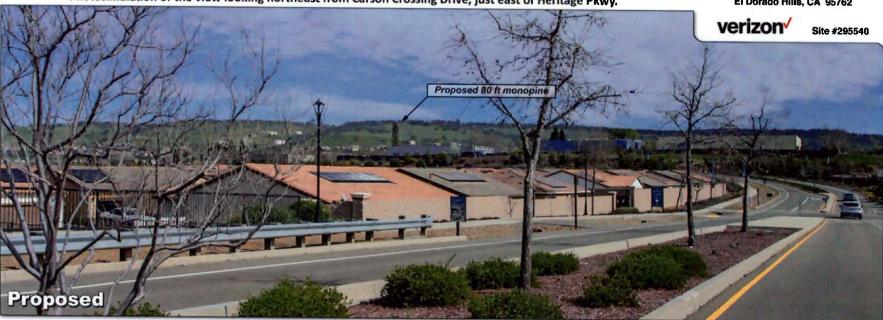
EXECUTVE SECRETARY

Stationary drone for height and placement

Golden Foothills

Photosimulation of the view looking northeast from Carson Crossing Drive, just east of Heritage Pkwy.

4994 Hillsdale Circle El Dorado Hills, CA 95762



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APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE MAY 23, 2024

EYECUTIVE SECRETARY



## Radio Frequency Emissions Compliance Report For Verizon Wireless

Site Name: Go

Address:

Golden Foothills

4994 Hillsdale Circle

El Dorado Hills, CA 95762

Report Date: September 9, 2022

Site Structure Type:

Monopine

Latitude: Longitude: 38.62461

-121.06307

Project: Modification

#### **Compliance Statement**

Based on information provided by Verizon Wireless and predictive modeling, the Golden Foothills installation proposed by Verizon Wireless will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings. As predicted RF power densities will not exceed the FCC General Population limits, no mitigation action other than restricting access to the tower is required to achieve or maintain compliance.

#### Certification

I, David C. Cotton, Jr., am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

David Charles Cotton, Jr.

Registered Professional Engineer (Electrical)

State of California, 18838

#### **General Summary**

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

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Table 1: FCC Limits

	Limits for General Populat	ion/ Uncontrolled Exposure	Limits for Occupational/ Controlled Exposure				
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	Averaging Time (minutes)			
30-300	0.2	30	1				
300-1500	f/1500	30	f/300	6			
1500-100,000	1.0	30	5.0	6			

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \, (\text{mW/cm}^2)$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \; (\text{mW/cm}^2)$$

where  $P_{in}$  is the power input to the antenna,  $\theta_{BW}$  is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

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#### **Analysis**

Verizon Wireless proposes the following installation at this location:

- INSTALL (12) ANTENNAS.
- INSTALL (9) RADIOS @ THE ANTENNAS.

The antennas will be mounted on a 97' Monopine with centerlines 84', 92', and 93.7' above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.



Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all Verizon Wireless operations is 15.0285% of the FCC General Population limits. Incident at adjacent

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buildings depicted in Figure 1, the maximum predicted power density level resulting from all Verizon Wireless operations is 26.206% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings. As predicted RF power densities will not exceed the FCC General Population limits, no mitigation action other than restricting access to the tower is required to achieve or maintain compliance.

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Appendix A: Operating Parameters Considered in this Analysis

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg);	Length (ft):	TPO (W):	Channels:	Loss (dB);	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft);
1	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	65	0	65	6	40	2	0	12.31	1362	2234	92
1	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	65	0	60	6	40	2	0	12.63	1466	2405	92
1	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	65	0	69	6	20	4	0	15.61	2911	4776	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	65	0	65	6	40	2	0	12.31	1362	2234	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	65	0	60	6	40	2	ő	12.63	1466	2405	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	65	0	64	6	40	4	0	16.36	6920	11353	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	65	0	64	6	20	4	0	16.36	3460	5677	92
3	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	65	0	69	6	0	0	0	15.61	0	0	92
4	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	65	0	11	2,8	320	1	0	23.55	72469	118891	93.7
5	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	700	185	0	65	6	40	2	0	12.33	1368	2244	92 🖫
5	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	850	185	0	60	6	40	2	0	12.63	1466	2405	92 5
5	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	185	0	69	6	20	4	ň	15,61	2911	4776	92.7
6	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	700	185	0	65	6	40	2	ő	12.33	1368	2244	92 1
6	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	850	185	0	60	6	40	2	ő	12.63	1466	2405	92 &
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6	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	185	0	64	6	20	4	0	16.36	3460	5677	92 🗇
7	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	185	0	69	6	0	0	0	15,61	0	0	92.0
8	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	185	0	11	2.8	320	1	0	23.55	72469	118891	93.76
9	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	305	0	65	6	40	2	0	12.31	1362	2234	92 20
9	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	305	0	60	6	40	2	0	12.63	1466	2405	02.0
9	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	305	0	69	6	20	4	0	15.61	2911	4776	92 g 92 g
10	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	305	0	65	6	40	2	0	12.31	1362	2234	92 4
10	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	305	0	60	6	40	2	0	12.63	1466	2405	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	305	0	64	6	40	4	0	16.36	6920	11353	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	305	0	64	6	20	4	0	16.36	3460	5677	92
11	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	305	0	69	6	0	o o	0	15.61	0	0	92
12	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	305	0	11	2.8	320	1	0	23.55	72469	118891	93.7
13	Verizon	ANDREW	VHLP4-11	11000	0	0	1.5	4	0.2	1	0	38.7	1462	2399	84

Notes: Table depicts recommended operating parameters for Verizon Wireless proposed operations.

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