COMMUNITY DEVELOPMENT SERVICES
PLANNING AND BUILDING DEPARTMENT

2850 Fairlane Court, Placerville, CA 95667
Phone: (530) 621-5355 www.edcgov.us/Planning/

RECEIVED
FEB 2 1 2024
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

APPLICATION FOR: CONDITIONAL/MINOR USE PERMIT FILE # CUP24-0002

ASSESSOR'S PARCEL NO.(s) 097-030-038

PROJECT NAME/REQUEST: (Describe proposed use) Diamond Springs Verizon Site. New, freestanding wireless telecommunications facility. Please see enclosed site plan and project support statement for further information.

APPLICANT/AGENT Cellco Partnership dba Verizon Wireless c/o Kevin Gallagher, Complete Wireless Consulting

Mailing Address 2009 V St, Sacramento, CA
P.O. Box or Street / City / State & Zip

Phone (916) 764-2632 EMAIL: kgallagher@completewireless.net

PROPERTY OWNER Gloyd D. Zeller, Jr. and Elia S. Zeller, Trustees of the Zeller Family Trust

Mailing Address 961 Pleasant Valley Rd, Diamond Springs, CA 95619
P.O. Box or Street / City / State & Zip

Phone (530) 845-1940 EMAIL:

LIST ADDITIONAL PROPERTY OWNERS ON SEPARATE SHEET IF APPLICABLE

ENGINEER/ARCHITECT Kevin Sorenson, Streamline Engineer

Mailing Address 3843 Taylor Road, Suite A, Loomis, CA 95650
P.O. Box or Street / City / State & Zip

Phone (916) 660-1930 EMAIL: kevin@streamlineeng.com

LOCATION: The property is located on the north (N / E / W / S) side of Pleasant Valley Road (street or road)

0.83 miles feet/miles east (N / E / W / S) of the intersection with State Route 49 (major street or road)

in the Diamond Springs area. PROPERTY SIZE 5.06 acres (acreage / square footage)

X Kevin Gallagher Digitally signed by Kevin Gallagher DN: cn=Kevin Gallagher, o=Complete Wireless Consulting, ou, email=kgallagher@completewireless.net, c=US Date: 2024.02.16 13:30:27 -08'00' Date 2/16/24
signature of property owner or authorized agent
see enclosed letter of authorization

FOR OFFICE USE ONLY

Date 2.21.24 Fee $ _____ Receipt # _____ Rec'd by BAK Census _____

Zoning CG GPD C Supervisor Dist 3 Sec 30 Twn 10 Rng 11

ACTION BY _____ PLANNING COMMISSION
_____ ZONING ADMINISTRATOR

Hearing Date _____

Approved _____ Denied _____
findings and/or conditions attached

_____
Executive Secretary

ACTION BY BOARD OF SUPERVISORS

Hearing Date _____

Approved _____ Denied _____
findings and/or conditions attached

APPEAL:
Approved _____ Denied _____

Revised 11/2017

CUP24-0002

COMPLETE
Wireless Consulting, Inc.

February 16th, 2024

Via Courier, with copy via Email

Planning Services Department
El Dorado County
2850 Fairlane Court
Placerville, CA 95667

Re: Verizon Wireless Conditional Use Permit Application, 2691 Pleasant Valley Rd, Diamond Springs, CA 95619 (APN 097-030-038); Site Name: Diamond Springs

This package is intended as a formal application for a permit for the above referenced Verizon Wireless telecommunications facility. Please find enclosed the following materials:

1. Application & Enviro. Questionnaire
2. Hazardous Materials Statement
3. Project Support Statement
4. Grant Deed
5. Letter of Authorization
6. Parcel Map
7. Photo Simulations
8. Coverage Maps
9. Radio Frequency (RF) Study
10. Noise Study
11. Site Plans & Elevations

As a freestanding wireless facility, Verizon believes the 150-day FCC shot clock applies. As a small structure that complies with Federal standards and County wireless rules, this project qualifies for a class 3 categorical exemption from CEQA. Verizon requests any requests for grading and construction details be held until the County has completed its discretionary review of the project.

I can be reached at 916-764-2632 or by email if you would like to discuss. In addition to the hard copies, soft copies have been sent via email. Please advise when fees have been accessed via etrakit and we will pay promptly.

Sincerely,

Kevin Gallagher
KGallagher@completewireless.net

Enclosures

2009 V Street
Sacramento, CA 95818

CUP24-0002

COUNTY OF EL DORADO
CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Application or Solicitation Number: _____

Application or Solicitation Title: _____

Was a campaign contribution, regardless of the dollar amount, made to any member of the El Dorado County Board of Supervisors or to any County Agency Officer on or after January 1, 2023, by the applicant, or, if applicable, any of the applicant's proposed subcontractors or the applicant's agent or lobbyist?

Yes ____ No X____

If no, please sign and date below.

If yes, please provide the following information:

Applicant's Name: _____

Contributor or Contributor Firm's Name: _____

Contributor or Contributor Firm's Address: _____

Is the Contributor:

- o The Applicant Yes____ No _
- o Subcontractor Yes____ No _
- o The Applicant's agent/ or lobbyist Yes____ No ___

Note: Under California law as implemented by the Fair Political Practices Commission, campaign contributions made by the Applicant and the Applicant's agent/lobbyist who is representing the Applicant in this application or solicitation must be aggregated together to determine the total campaign contribution made by the Applicant.

Identify the Board of Supervisors Member(s) and County Agency Officer(s) to whom you, your subcontractors, and/or agent/lobbyist made campaign contributions on or after January 1, 2023, the name of the contributor, the dates of contribution(s) and dollar amount of the contribution. Each date must include the exact month, day, and year of the contribution.

Name of Board of Supervisors Member or County Agency Officer: _____

Name of Contributor: _____

Date(s) of Contribution(s): _____

Amount(s): _____

(Please add an additional sheet(s) to identify additional Board Members or County Agency Officer to whom you, your subconsultants, and/or agent/lobbyist made campaign contributions)

By signing below, I certify that the statements made herein are true and correct. I also agree to disclose to the County any future contributions made to Board Members or County Agency Officers by the applicant, or, if applicable, any of the applicant's proposed subcontractors or the applicant's agent or lobbyist after the date of signing this disclosure form, and within 12 months following the approval, renewal, or extension of the requested license, permit, or entitlement to use.

2/16/24
Date

Kevin Gallagher
Signature of Applicant

Print Firm Name if applicable

Kevin Gallagher
Print Name of Applicant

COMMUNITY DEVELOPMENT SERVICES
PLANNING AND BUILDING DEPARTMENT

2850 Fairlane Court, Placerville, CA 95667
Phone: (530) 621-5355 www.edcgov.us/Planning/

EL DORADO COUNTY PLANNING SERVICES
ENVIRONMENTAL QUESTIONNAIRE

RECEIVED
FEB 2 1 2024
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

File Number CUP24-0002
Date Filed

Project Title: Diamond Springs Verizon Site
Lead Agency:
Name of Owner: Zeller Family Trust, Gloyd & Elia Zeller, Trustees
Telephone:
Address: 961 Pleasant Valley Rd, Diamond Springs, CA 95619
Name of Applicant: Cellco Partnership, dba Verizon Wireless c/o Complete Wireless Consulting
Telephone: 916-764-2632
Address: Attn: Kevin Gallagher, 2009 V Street, Sacramento, CA 95818
Project Location: 961 Pleasant Valley Rd, Diamond Springs, CA 95619
Assessor's Parcel Number(s): 097-030-038 Acreage: 5.06 Zoning: CG

Please answer all of the following questions as completely as possible. Subdivisions and other major projects will require a Technical Supplement to be filed together with this form.

1. Type of project and description: New freestanding wireless telecommunications facility.

2. What is the number of units/parcels proposed? N/A

GEOLOGY AND SOILS

3. Identify the percentage of land in the following slope categories:

☐ 0 to 10% ☐ 11 to 15% ☐ 16 to 20% ☐ 21 to 29% ☐ over 30%

30' wide project area.

4. Have you observed any building or soil settlement, landslides, rock falls or avalanches on this property or in the nearby surrounding area? No

5. Could the project affect any existing agriculture uses or result in the loss of agricultural land? No

CUP24-0002

DRAINAGE AND HYDROLOGY

6. Is the project located within the flood plain of any stream or river? No

   If so, which one? _____

7. What is the distance to the nearest body of water, river, stream or year-round drainage channel?

   A pond, 1700' west Name of the water body? _____

8. Will the project result in the direct or indirect discharge of silt or any other particles in noticeable amount into any lakes, rivers or streams? No

9. Will the project result in the physical alteration of a natural body of water or drainage way? No

   If so, in what way? _____

10. Does the project area contain any wet meadows, marshes or other perennially wet areas?

    No

VEGETATION AND WILDLIFE

11. What is the predominant vegetative cover on the site (trees, brush, grass, etc.)? Estimate percentage of each:

    Majority asphalt, some trees. About ten total trees over five acres.

12. How many trees of 6-inch diameter will be removed when this project is implemented?

    None.

FIRE PROTECTION

13. In what structural fire protection district (if any) is the project located? Diamond Springs FPD

14. What is the nearest emergency source of water for fire protection purposes (hydrant, pond, etc.)? TBD

15. What is the distance to the nearest fire station? 1.2 Miles

16. Will the project create any dead-end roads greater than 500 feet in length? Total path > 500'. Turnaround included.

17. Will the project involve the burning of any material including brush, trees and construction materials? No

NOISE QUALITY

18. Is the project near an industrial area, freeway, major highway or airport? No

    If so, how far? _____

19. What types of noise would be created by the establishment of this land use, both during and after construction? HVAC units and emergency backup generator. See enclosed noise study.

AIR QUALITY

20. Would any noticeable amounts of air pollution, such as smoke, dust or odors, be produced by this project? No, emergency backup generator only.

WATER QUALITY N/A

21. Is the proposed water source ☐ public or ☐ private, ☐ treated or ☐ untreated?

22. What is the water use (residential, agricultural, industrial or commercial)? N/A, no water use.

AESTHETICS

23. Will the project obstruct scenic views from existing residential areas, public lands, and/or public bodies of water or roads? See photo sims.

ARCHAEOLOGY/HISTORY

24. Do you know of any archaeological or historical areas within the boundaries or adjacent to the project? (e.g., Indian burial grounds, gold mines, etc.) No

SEWAGE N/A, no sewage or waste water of any kind, unmanned facility

25. What is the proposed method of sewage disposal? ☐ septic system ☐ sanitation district
Name of district: _____

26. Would the project require a change in sewage disposal methods from those currently used in the vicinity? _____

TRANSPORTATION

27. Will the project create any traffic problems or change any existing roads, highways or existing traffic patterns? No, facility is unmanned.

28. Will the project reduce or restrict access to public lands, parks or any public facilities?
No

GROWTH-INDUCING IMPACTS

29. Will the project result in the introduction of activities not currently found within the community?
No

30. Would the project serve to encourage development of presently undeveloped areas, or increases in development intensity of already developed areas (include the introduction of new or expanded public utilities, new industry, commercial facilities or recreation activities)? No

31. Will the project require the extension of existing public utility lines? No, utilities undergrounded from existing
If so, identify and give distances: _____

GENERAL

32. Does the project involve lands currently protected under the Williamson Act or an Open Space Agreement? No

33. Will the project involve the application, use or disposal of potentially hazardous materials, including pesticides, herbicides, other toxic substances or radioactive material?
210 gallon diesel tank for emergency backup generator

34. Will the proposed project result in the removal of a natural resource for commercial purposes (including rock, sand, gravel, trees, minerals or top soil)? No

35. Could the project create new, or aggravate existing health problems (including, but not limited to, flies, mosquitoes, rodents and other disease vectors)? No

36. Will the project displace any community residents? No

DISCUSS ANY YES ANSWERS TO THE PREVIOUS QUESTIONS (attached additional sheets if necessary)

MITIGATION MEASURES (attached additional sheets if necessary)

Proposed mitigation measures for any of the above questions where there will be an adverse impact:

Form Completed by: Kevin Gallagher Date: 2/16/24

Revised 11/2017

RECORDING REQUESTED BY)
)
GLOYD D. ZELLER, JR. &)
ELIA S. ZELLER)
)
WHEN RECORDED MAIL TO:)
)
Gloyd D. Zeller, Jr. &)
Elia S. Zeller)
4256 Carlson Way)
Diamond Springs, CA 95619)
)

El Dorado, County Recorder
William E. Schultz Co Recorder Office
DOC- 99-0066179-00
Check Number 201
Monday, OCT 25, 1999 08:54:00
Ttl Pd $13.00 Nbr-0006195864
JRB/C2/1-3

MAIL TAX STATEMENTS TO:

Gloyd D. Zeller, Jr. &
Elia S. Zeller
4256 Carlson Way
Diamond Springs, CA 95619

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

PCOS FILED

TITLE(S)

GRANT DEED TRANSFER TO REVOCABLE TRUST

The undersigned Grantor(s) declare(s):

Documentary Transfer tax is $ -0-.

THERE IS NO CONSIDERATION FOR THIS TRANSFER - CHANGE IN FORMAL TITLE ONLY.

This is a transfer into a REVOCABLE TRUST excluded from a change in ownership under Section 62(d) of the Revenue and Taxation Code and State Board of Equalization Property Tax Rule 462(i)(2)(B).

FOR NO MONETARY CONSIDERATION, BUT FOR NONMONETARY CONSIDERATION,

GLOYD D. ZELLER, JR. and ELIA S. ZELLER, Husband and Wife, Grantors, do hereby FOREVER GRANT to GLOYD D. ZELLER, JR. and ELIA S. ZELLER, Trustees of the ZELLER FAMILY TRUST, under agreement dated October 24, 1999, all of the right, title and interest of GRANTOR in and to the following described real property in the County of El Dorado, State of California:

(SEE ATTACHED EXHIBIT "A" FOR LEGAL DESCRIPTION)

ASSESSOR'S PARCEL NUMBER(S) 097-030-38

066179

Note #1: Conveyance transferring GRANTORS' interest into a revocable Living Trust. This conveyance transfers the Grantors' interest into their revocable living trust, which is not pursuant to a sale and is exempt pursuant to Rev 7 T C Sec. 11911.

Note #2: The GRANTORS are the same persons as the Co-Trustees. This conveyance is to a revocable trust and, pursuant to Rev & T C Sec. 62(d0(2), does NOT constitute a change in ownership and does not subject the property to reassessment.

DATED: 10-24-99

GRANTOR: Gloyd D. Zeller Jr
GLOYD D. ZELLER, JR.

GRANTOR: Elia S. Zeller
ELIA S. ZELLER

NOTARIAL ACKNOWLEDGEMENT

STATE OF CALIFORNIA)
)ss.
COUNTY OF EL DORADO)

On October 24 1999, before me, Janet J. Alves a Notary Public for the State of California personally appeared GLOYD D. ZELLER, JR. and ELIA S. ZELLER, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) ~~is~~/(are) subscribed to the within instrument and acknowledged to me that ~~he/she~~/(they) executed the same in ~~his/her~~/(their) authorized capacity(ies), and that by ~~his/her~~/(their) signatures on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature Janet J. Alves
Notary Public

JANET J. ALVES
Commission # 1172612
Notary Public — California
Sacramento County
My Comm. Expires Apr 11, 2003

066179

EXHIBIT "A"

LEGAL DESCRIPTION

All that portion of the "El Dorado" Mining Claim, mineral survey No. 6178, situate in the Northeast quarter of Section 30, Township 10 North, Range 11 East, M.D.B.&M., more particularly described as follows:

COMMENCING at a point on the East line of the Concordia Claim which in the Northwest corner of the parcel herein described from thence the Northwest corner of the El Dorado Claim, a 1 inch brass capped iron pipe Survey 6178, bears South 89° 54' 00" West 138.89 feet; thence from said point of beginning along the Northerly boundary of the El Dorado Claim North 89° 54' 00" East 399.70 feet to the Westerly line of the Superior Claim; thence South 24° 28' 20" West 313.07 feet to a 1 inch open iron pipe found at a fence corner; thence South 21° 53' 30" West 575.35 feet to the Northerly edge of a county road; thence North 69° 00' 10" West 174.38 feet along the Northerly edge of said County Road; thence North 08° 05' 00" East 763.19 feet to the point of beginning.

10/25/1988,1988066179

Site Name: Diamond Springs

LETTER OF AUTHORIZATION

This authorization is not a commitment of any kind. All land-use approvals obtained will be subject to the successful completion of lease negotiations and the approval of site configuration by an authorized representative.

In order to determine the viability and permit the use of a wireless antenna facility on the real property ("Property") at the address stated below, the undersigned authority hereby grants, consents, and agrees with Verizon Wireless as follows:

1. Entry. Owner or authorized agent consents that approved Verizon Wireless representatives may enter upon the Property to conduct and perform the following permitted activities upon at least 24 hour notice to Owner: boundary and positioning surveys, radio propagation studies, soils boring/report, power and telephone existing service capacity, subsurface boring tests, an environmental site assessment, visual inspections of the Property, and other activities as Verizon Wireless may deem necessary. Verizon Wireless agrees to be responsible for all costs related to these surveys and investigations.

2. Filings. Owner or authorized agent consents that Verizon Wireless may make and file applications for the proposed wireless antenna facility on the Property to such local, state and federal governmental entities whose approval may be necessary for this type of use. Submittals and approvals include zoning applications, variances, land use descriptions, and other submittals necessary for this type of use. Verizon Wireless agrees to be responsible for all costs related to the governmental approvals for this project.

3. Telco. Owner or authorized agent consents that Verizon Wireless may order, coordinate, and install upgraded telephone connectivity to the site. Verizon Wireless agrees to be responsible for any and all costs related to this installation. Owner or authorized agent understands that the upgrade of telephone connectivity does not constitute construction start.

Authorized Signature: Gloyd Zeller

Print Name: Gloyd Zeller

Title: owner

Company (if applicable): Zeller Construction INC

Phone number: (530) 845-1940

Dated: 8-3-2023

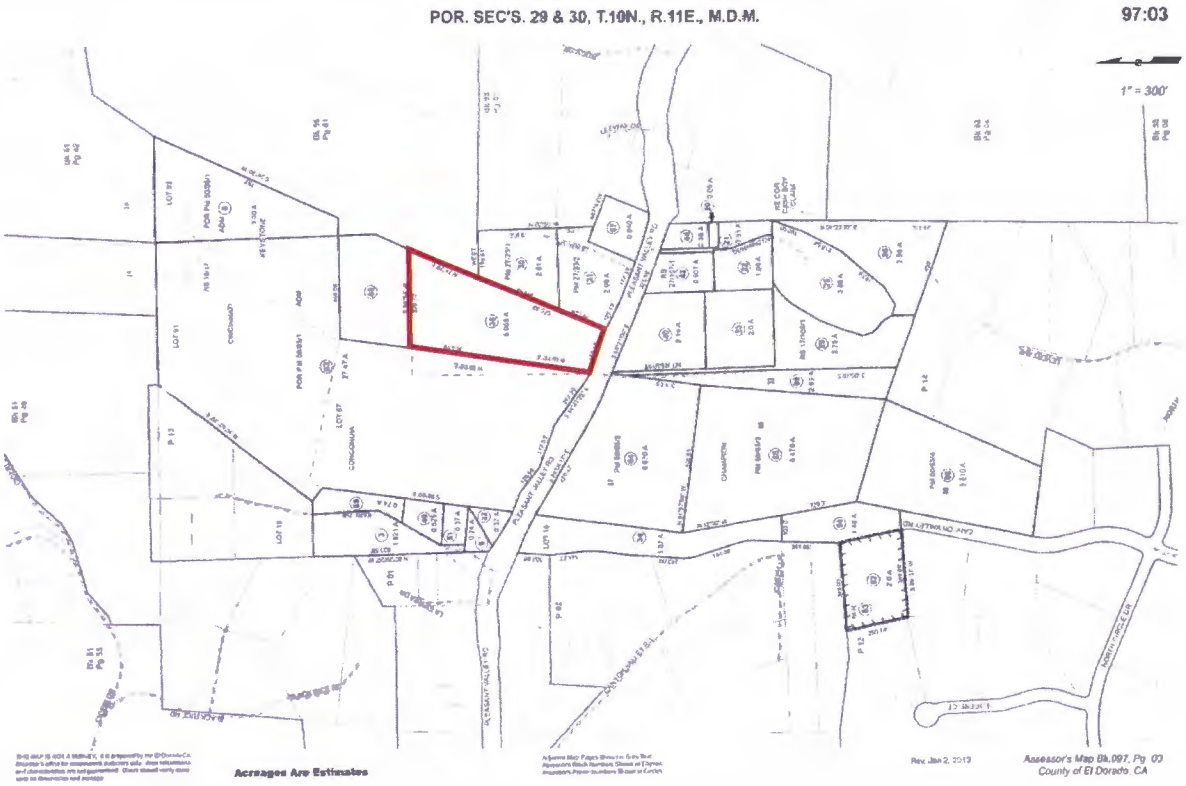
Note: Please make Any And All future checks or payments to this company

Assessor's Parcel Number: 097-030-038-000

Property Address: 961 Pleasant Valley Road
Diamond Springs, CA 95619

First American Title™

Tax Map Report | 961 Pleasant Valley Rd, Diamond Springs, Ca 95619 - El Dorado County 4/25/2023



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

RECEIVED
FEB 21 2024
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

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

Owners Name:	Date:	Time:
Zeller Family Trust	2/16/24	
Operators Name: Cellco Partnership dba Verizon Wireless	**Business Lic. or Permit/Plan Check #:**	
Facility/Business Name: Diamond Springs Verizon Facility	**Phone:** 916-204-8995	
Physical Address: 961 Pleasant Valley Rd, Diamond Springs, CA 95619	**Mailing Address:** 2009 V Street, Sacramento, CA 95818	

Brief Business Description:

Freestanding wireless telecommunications facility with 30 kw emergency backup diesel generator.

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? 210 gallon diesel tank	☒	☐
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: Kevin Gallagher Digitally signed by Kevin Gallagher DN: cn=Kevin Gallagher, o=Complete Wireless Consulting, ou, email=kgallagher@completewireless.net, c=US Date: 2024.02.16 15:40:09 -08'00' **Date:** 2/16/24

SW/HM Approval:	Date:

CUP24-0002

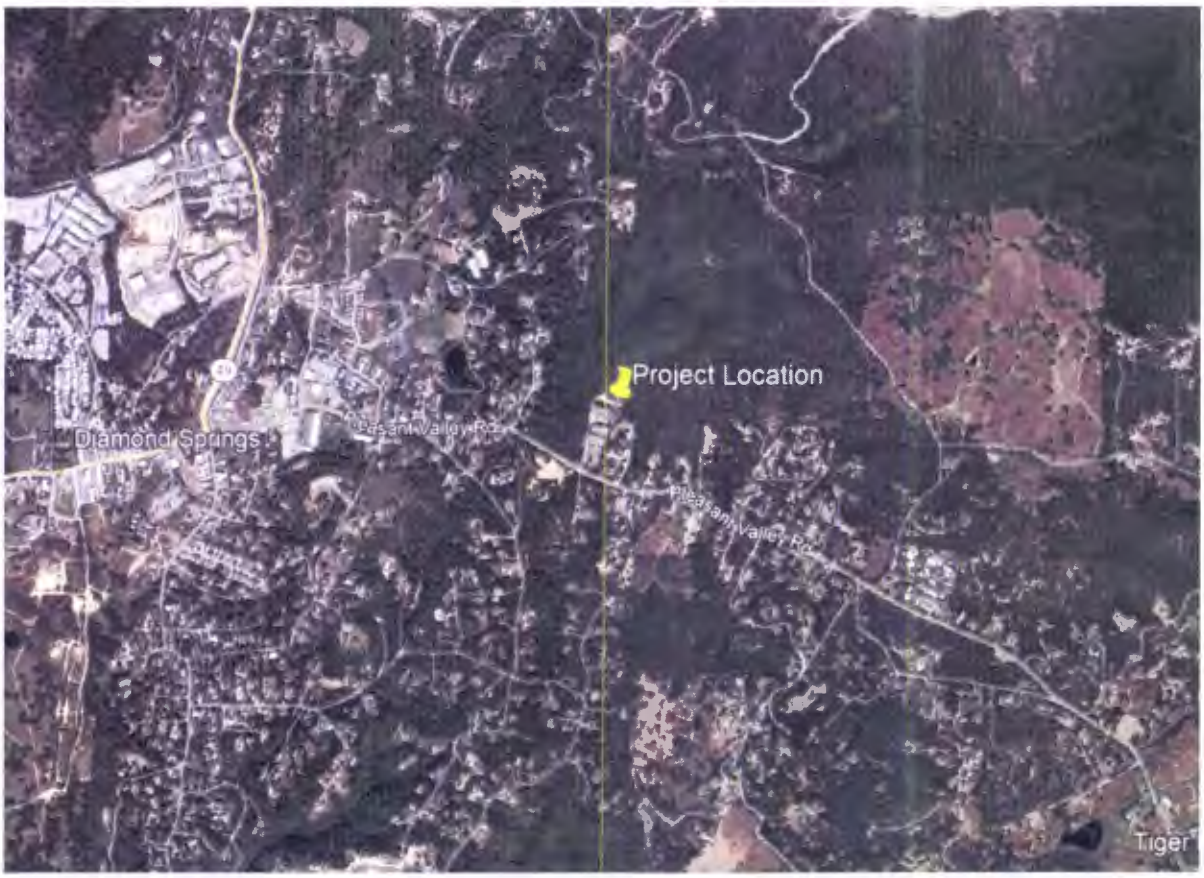
VERIZON WIRELESS
PROJECT SUPPORT STATEMENT

Site Name: Diamond Springs
Site Address: 2691 Pleasant Valley Rd, Diamond Springs, CA
APN: 097-030-038

INTRODUCTION & FACILITY DESCRIPTION

The demand for wireless and data services continues to grow across California. Access to the wireless network has become vital as individuals increasingly rely on handheld and mobile devices as their primary method of communication. Verizon Wireless constantly seeks to improve its wireless network through industry-leading techniques and innovative solutions to respond to high levels of wireless network traffic and increased user demand. This proposal for a new wireless telecommunications facility is an essential part of the effort to continuously improve the Verizon network for future and potential customers. The facility proposal is designed to comply with all wireless communications guidelines set forth by El Dorado County.

This is a proposal for a new, freestanding wireless telecommunications facility on the above referenced parcel in unincorporated El Dorado County in order to fill a significant coverage gap, along an approximately 1.6 mile stretch along Pleasant Valley Road. The proposed facility is the least intrusive means for Verizon to close a significant gap in network coverage.



Location

The project is located on a 5.06 acre parcel zoned General Commercial (CG). The parcel is zoned Residential Estate (RE-5) and is surrounded by residential parcels. The parcels to the north and west are heavily wooded and appear to be undeveloped at present, while some of the parcels to the southeast have existing residential uses. The site would be accessed via an existing driveway off Pleasant Valley Road, which some additional improvements.

Project Location

Design and Aesthetic Impacts

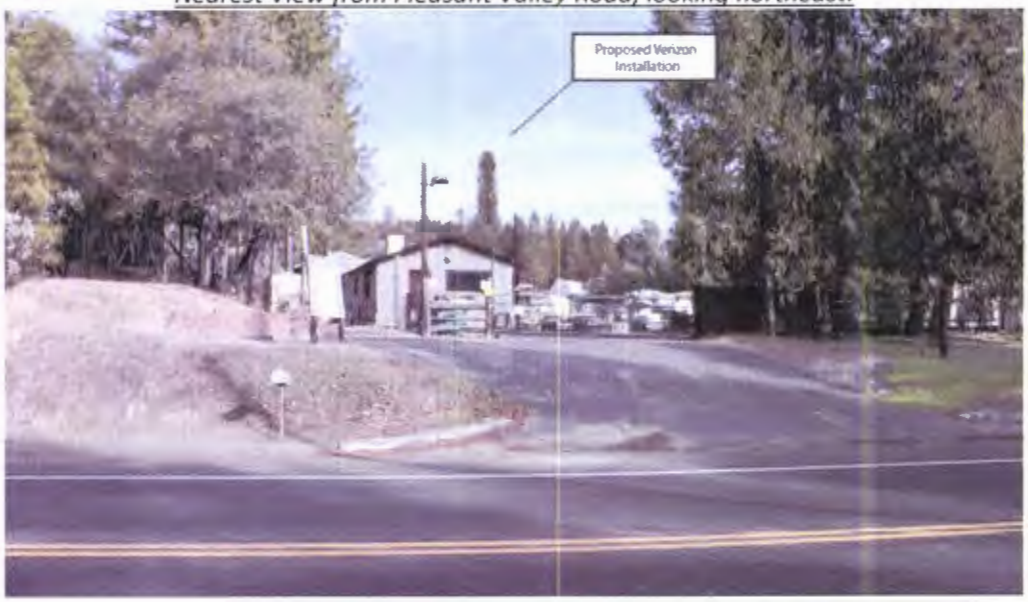
The proposed has been sited to minimize the aesthetic impact as much as possible while still providing coverage to the surrounding area. The facility has been placed in the northeastern corner of the parcel, approximately 800' from the public right of way. This minimizes visual impact from the public right way, as well as impact on the existing commercial operations on the property.

Verizon is proposing a new, freestanding 138' tall "monopine" style stealth telecommunications facility. Panel antennas would be installed at a 120' centerline, with the remaining height needed for a faux "crown" to adequately conceal the antennas and maintain silhouette mimicking a natural pine tree. The

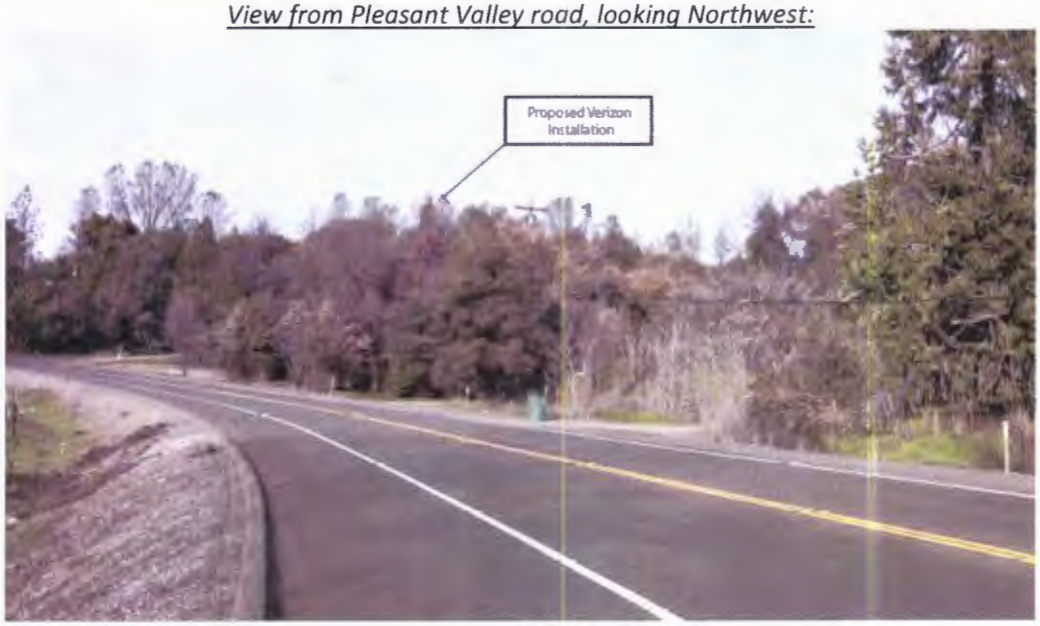
facility has been designed at the minimum functioning height to fill the existing coverage gap and will be engineered to allow collocation.

The monopine would be placed within a 30' by 30' compound surrounded and screened by a 6' tall chain link fence. Ground equipment would include multiple outdoor equipment cabinets and a 30 kW diesel emergency backup generator and 210 gallon fuel tank. The facility would be accessed via an existing driveway that would be improved and extended as needed. Utilities would be brought underground from the public right of way. (A full description of the proposed facility can be found in the site plans enclosed with this application, and a full set of photo simulations with four views has been included.)

Nearest View from Pleasant Valley Road, looking northeast:



View from Pleasant Valley road, looking Northwest:



DESCRIPTION OF COVERAGE AREA

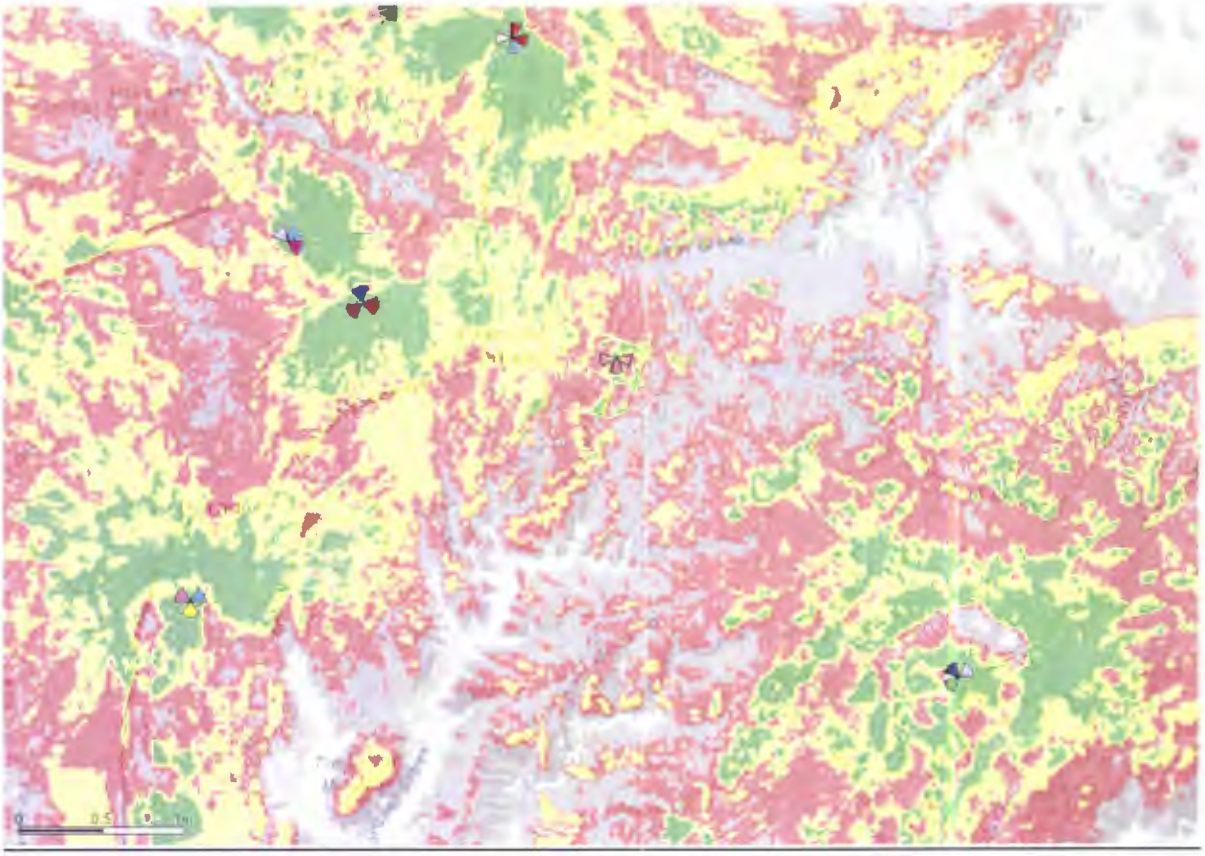
The objective of the proposed facility is to improve coverage and capacity in the surrounding area, particularly along an approximately 1.6 mile stretch of Pleasant Valley Road (see coverage maps on following pages). To achieve this service objective, Verizon identified a potential candidate "Search Area." A Search Area is an area on a map that is determined by Verizon's Radio Frequency Engineer (RF engineer). The area identifies the geographic area within which the proposed telecommunications site must be located to satisfy the intended service objective. In creating the Search Ring, the RF engineer considers many factors, such as topography, proximity to existing structures, current coverage areas, existing obstructions, etc. The search area provides initial search parameters - not all locations within the search area will ultimately be suitable for filling the coverage gap.

Existing and proposed coverage maps for LTE and AWS coverage are shown on the following four pages– higher resolution maps have also been included with the application materials. Green areas signify reliable in-building coverage, yellow areas signify reliable in-vehicle coverage, red areas signify outdoor coverage, and grey areas signify poor coverage.

Approximate Search Area

Verizon Wireless Site: Diamond Springs
2691 Pleasant Valley Rd (APN 097-030-038)

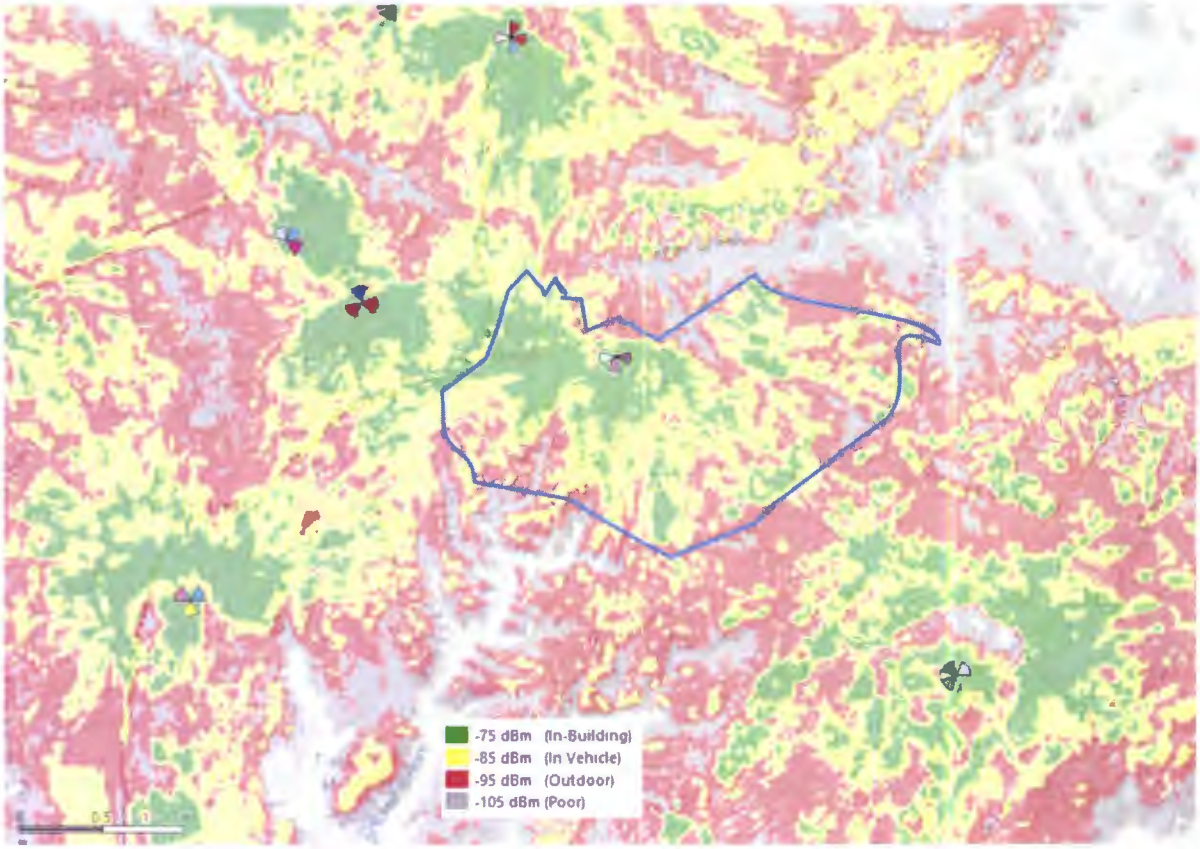
Existing Coverage (700 LTE)



-75 dBm (In-Building)
-85 dBm (In Vehicle)
-95 dBm (Outdoor)
-105 dBm (Poor)

Verizon Wireless Site: Diamond Springs
2691 Pleasant Valley Rd (APN 097-030-038)

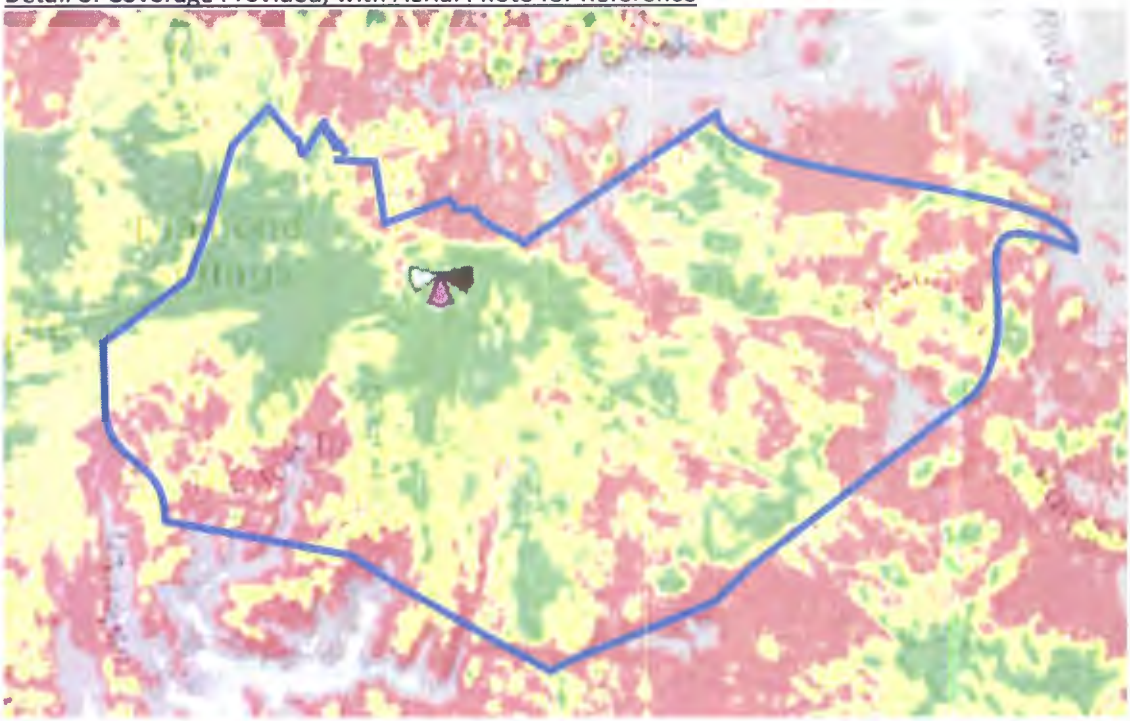
Coverage with Proposed Facility (700 LTE)



-75 dBm (In-Building)
-85 dBm (In Vehicle)
-95 dBm (Outdoor)
-105 dBm (Poor)

Verizon Wireless Site: Diamond Springs
2691 Pleasant Valley Rd (APN 097-030-038)

Detail of Coverage Provided, with Aerial Photo for Reference



ALTERNATE SITES ANALYSIS

Verizon Wireless strives to minimize visual and noise impacts for each facility and seeks to incorporate ways to preserve the local community character to the greatest extent feasible at all stages of site selection and design process. Part of this involves seeking properties in areas with substandard wireless coverage that provide the ability to meet community needs, zoning standards, and engineering requirements.

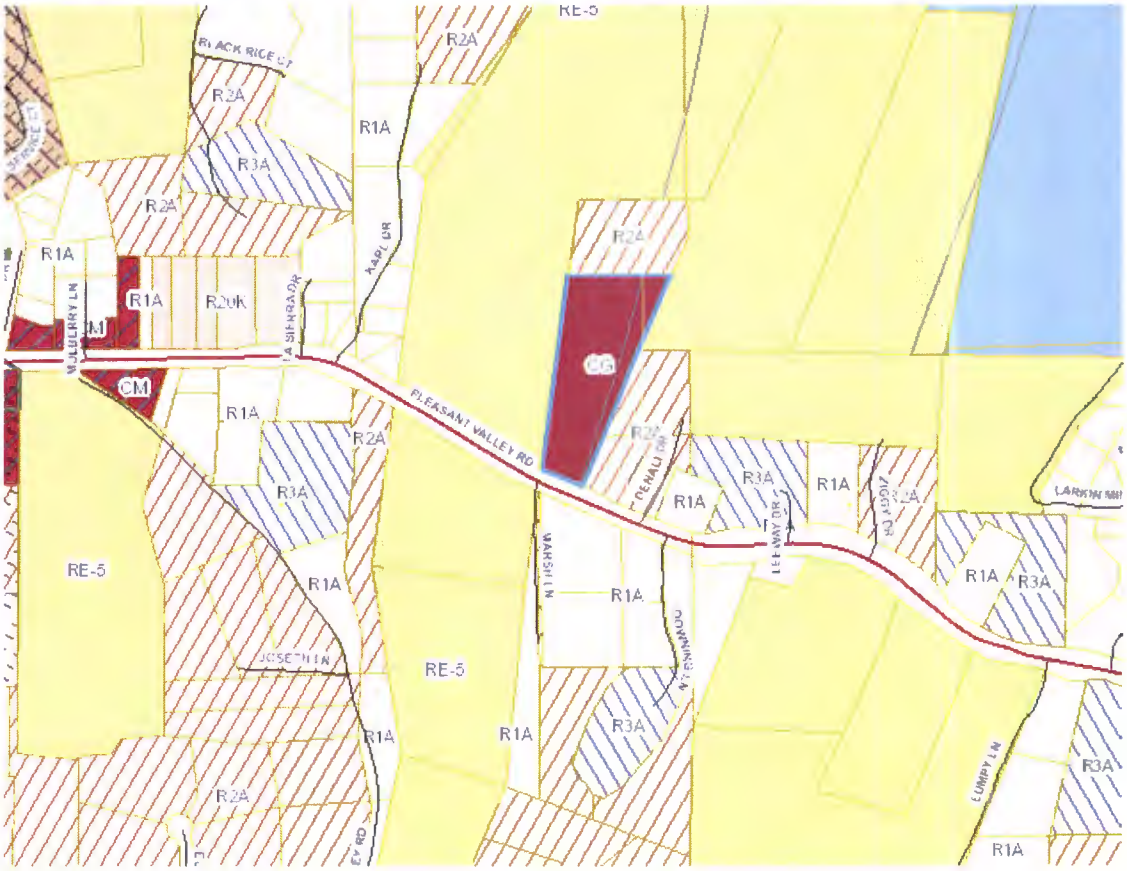
In identifying the location of a wireless telecommunication facility to fulfill the above referenced service objectives a variety of factors are evaluated. These factors include: a willing landlord, compliance with local zoning requirements, topography, existing structures, colocation opportunities, available utilities, and road access. Verizon conducted an exhaustive search for alternative sites, after which it determined that the proposed site on Malcom Dixon Road is the best available location for a wireless telecommunications facility to meet the desired coverage objective.

The nearest existing wireless facilities are over two miles away, near Placerville to the north and further east along Pleasant Valley Way. There is existing location upon which Verizon would be able to collocate and fill the existing gap in coverage. Therefore, a new freestanding facility was necessary. Verizon considered the following properties:

- 908 Pleasant Valley Road: The property owner did not respond to multiple leasing inquiries.
- 4479 Lewis Road: The property owner was not interested.
- 5420 Pleasant Valley Rd: The property would not be able to satisfy the coverage objectives due to terrain.
- 1201 Pleasant Valley Rd: The property would not be able to satisfy the coverage objectives due to terrain.
- 4714 Ringold Rd: The property would not be able to satisfy the coverage objectives due to terrain.
- 4814 Ringold Rd: The property would not be able to satisfy the coverage objectives due to terrain.

Unlike the project location, none of these potential alternate properties are zoned commercial. (There are no industrial zoned properties in the area.) (See figures on the following page from the County GIS, with the subject parcel outlined in teal.)

Verizon Wireless Site: Diamond Springs
2691 Pleasant Valley Rd (APN 097-030-038)



ADDITIONAL INFORMATION

Safety Benefits of Improved Wireless Service

Verizon Wireless offers its customers multiple services such as voice calls, text messaging, mobile email, picture/video messaging, mobile web, navigation, broadband access, V CAST, and E911 services. Mobile phone use has become an extremely important tool for first responders and serves as a back-up system in the event of a natural disaster. Verizon will install a standby generator at this facility to ensure quality communication for the surrounding community in the event of a natural disaster or catastrophic event. This generator will be fully contained within the equipment shelter and will provide power to the facility if local power systems are offline.

Maintenance

Verizon installs standby generators and backup batteries at all its cell sites. The batteries play a vital role in Verizon's emergency and disaster preparedness plan. In the event of a power outage, the back-up generator will automatically start and continue to run the site for up to 24 hours. The standby generator will operate for approximately 15 minutes per week for maintenance purposes and will only be tested during the daytime. Back-up generators allow Verizon's sites to continue providing valuable communications services in the event of a power outage, natural disaster or other emergency. Following construction, a small sign indicating the facility owner and a 24-hour emergency telephone number will be provided on site.

Parking & Traffic

The facility is unmanned and will operate 24 hours a day, seven days a week. A technician will occasionally visit the facility to service the equipment, approximately once a month. There will no other visitors or guests associated with the facility.

Construction Schedule

The construction of the facility will follow all local rules and regulations. The crew size will range from two to ten individuals. The construction phase of the project will last approximately two months and will not exceed acceptable noise levels.

Compliance with FCC Standards

This project will not interfere with any TV, radio, telephone, satellite, or other signals. Any interference would be against federal law and a violation of Verizon's FCC license. An RF report verifying compliance with FCC guidelines is included with this submittal.

Environmental Assessment

The project is categorically exempt under CEQA as a Class III small structure. A study verifying compliance with FCC EME regulations has been included as part of this application.

Airports

The nearest airport is Cameron Airpark, 4.1 miles southeast.

Water Usage

As the facility is unmanned and no landscaping is proposed, there will be no impact on water usage on the property.

Notice of Actions Affecting Development Permit

In accordance with California Government Code Section 65945(a), Verizon requests notice of any proposal to adopt or amend the: general plan, specific plan, zoning ordinance, ordinance(s) affecting building or grading permits that would in any manner affect this development permit. Any such notice may be sent to 2009 V Street, Sacramento, CA 95818.

verizon

Diamond Springs
961 Pleasant Valley Road, Diamond Springs, CA
Photosims Produced on 1-19-2024

AdvanceSim

Contact 925

CUP24-0002

Shot Point Map

Existing

Proposed

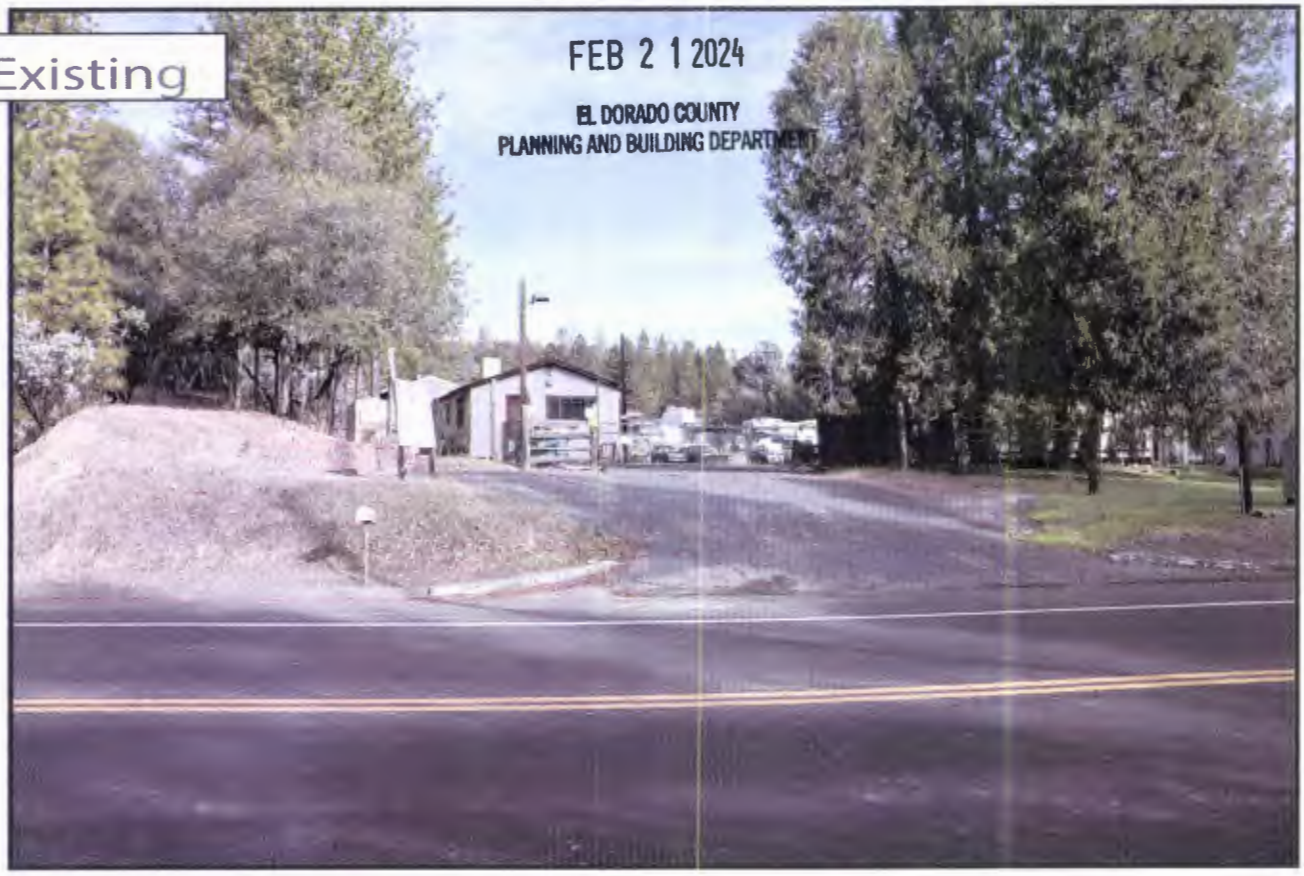
view from Pleasant Valley Road looking northeast at site

AdvanceSim

verizon

Diamond Springs
961 Pleasant Valley Road, Diamond Springs, CA
Photosims Produced on 1-19-2024

Existing



Proposed

view from Pleasant Valley Road looking northeast at site

verizon

Diamond Springs
961 Pleasant Valley Road, Diamond Springs, CA
Photosims Produced on 1-19-2024

AdvanceSim

Existing

Proposed

view from Pleasant Valley Road looking northwest at site

verizon

Diamond Springs
961 Pleasant Valley Road, Diamond Springs, CA
Photosims Produced on 1 19-2024

AdvanceSim

Existing

Proposed

view from Lime Kiln Road looking southeast at site

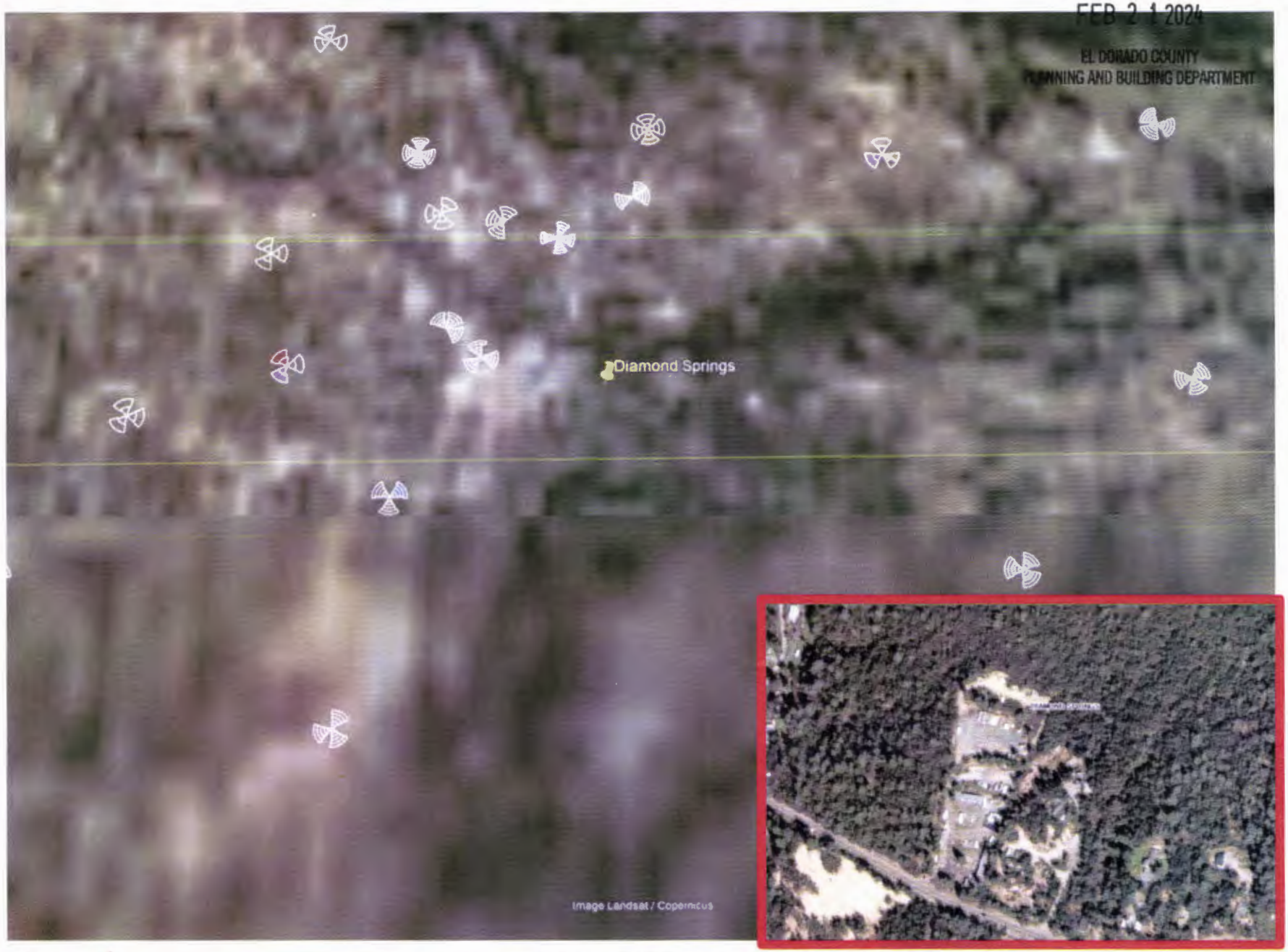
verizon

Diamond Springs
961 Pleasant Valley Road, Diamond Springs, CA
Photosims Produced on 1-19 2024

AdvanceSim

CUP24-0002

Diamond Springs Site Location

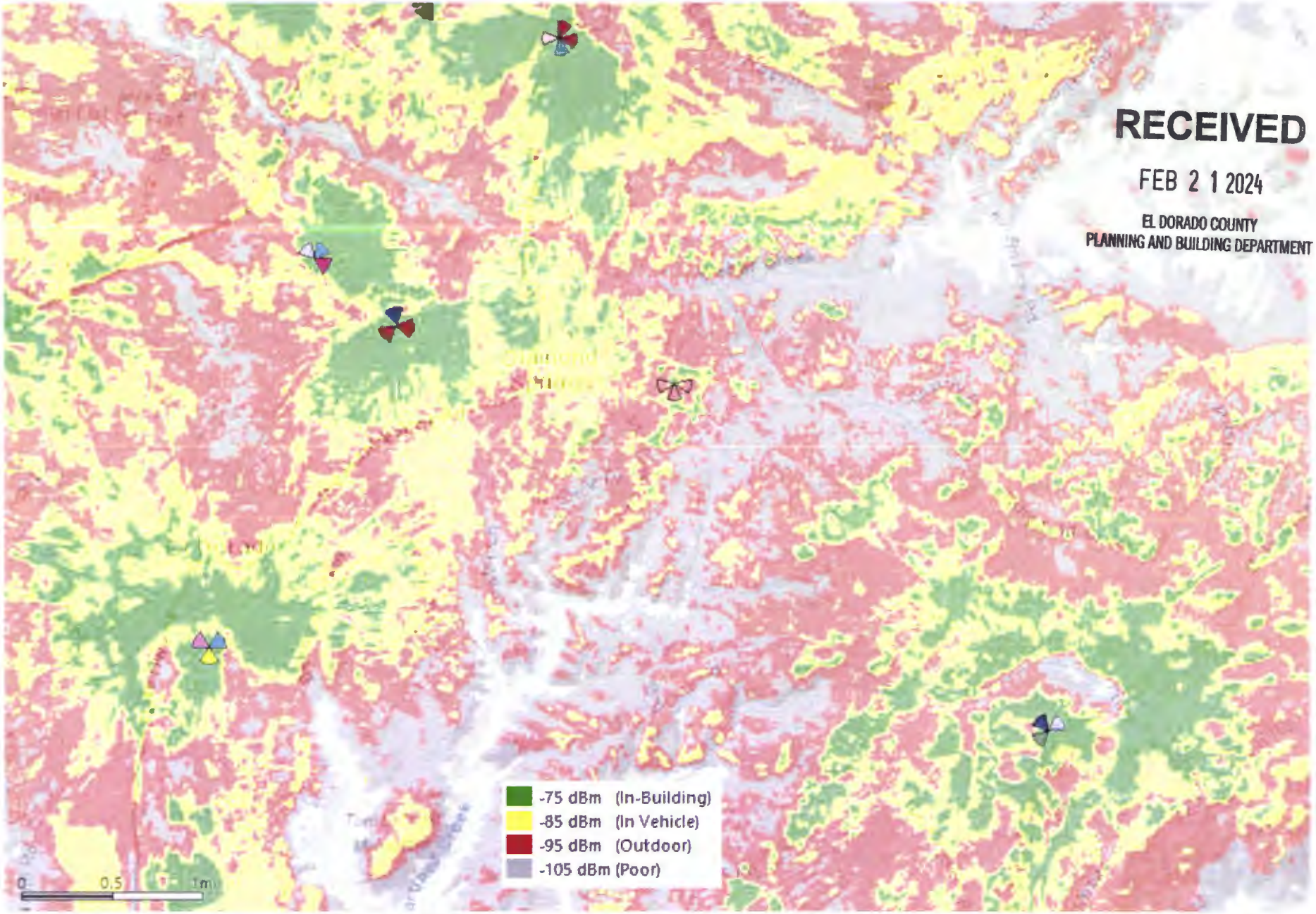


verizon

LTE 700 COVERAGE

verizon

Existing 700 Coverage



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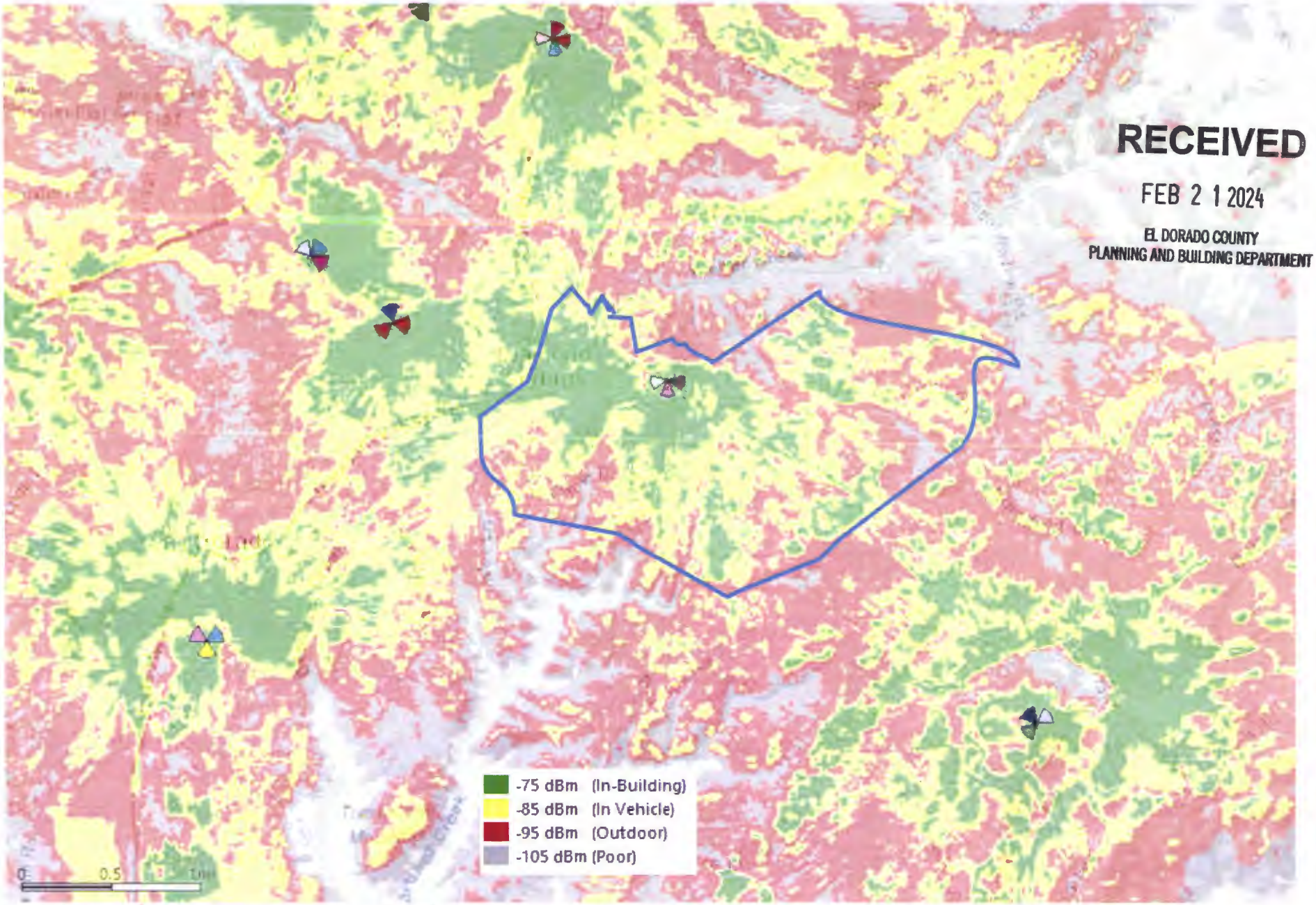
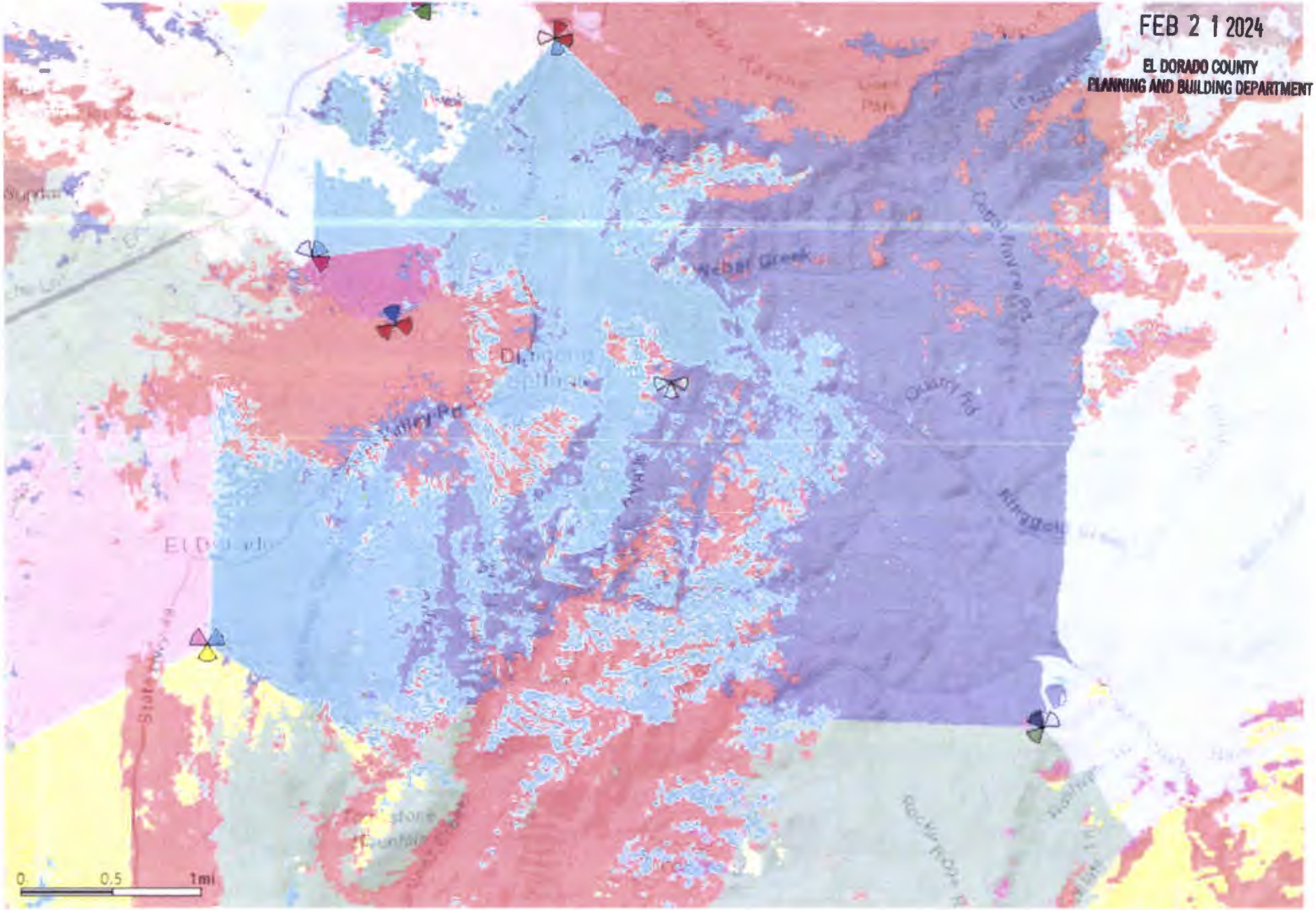
700 Coverage With Diamond Springs



verizon

Existing 700 Best Server



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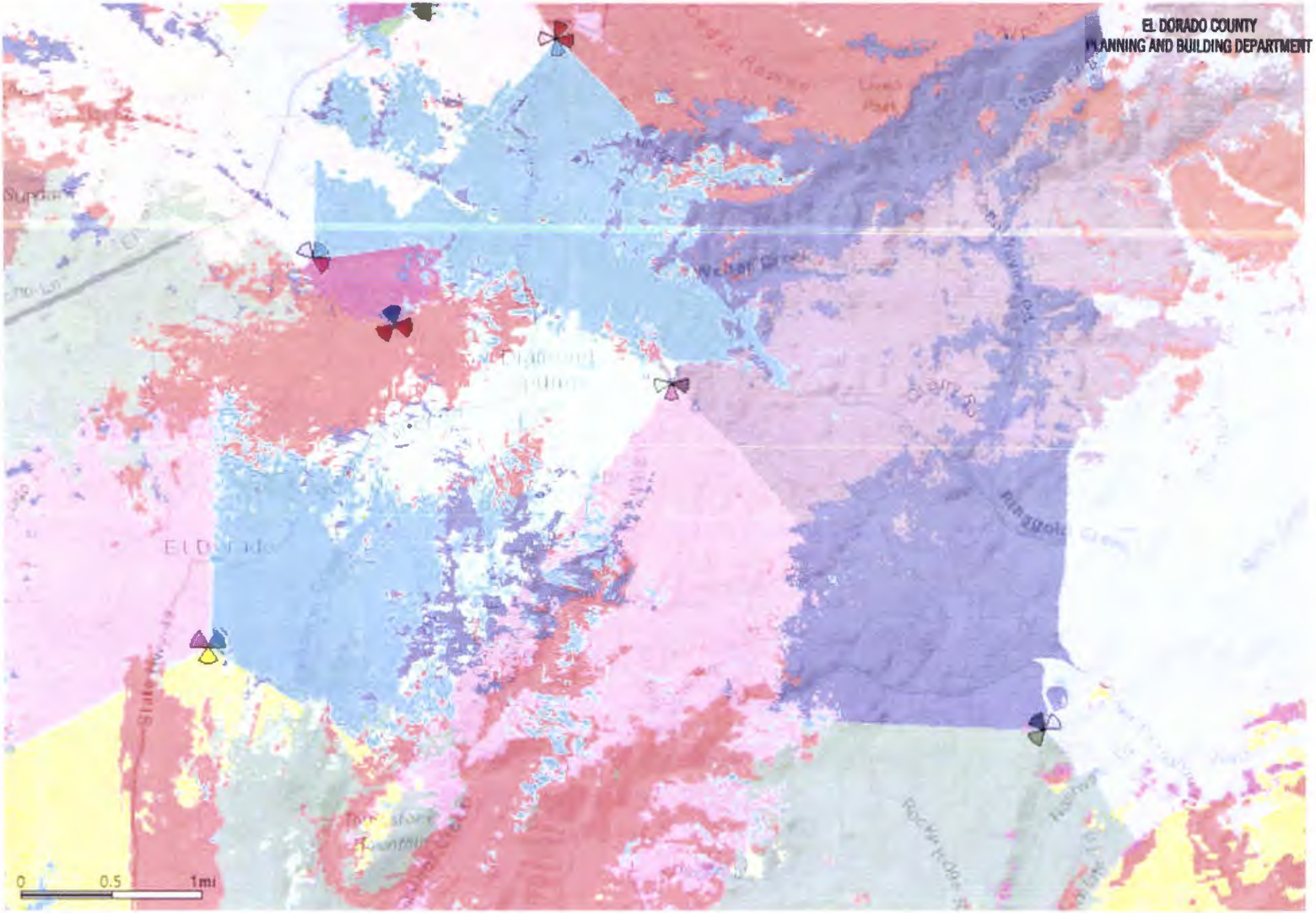
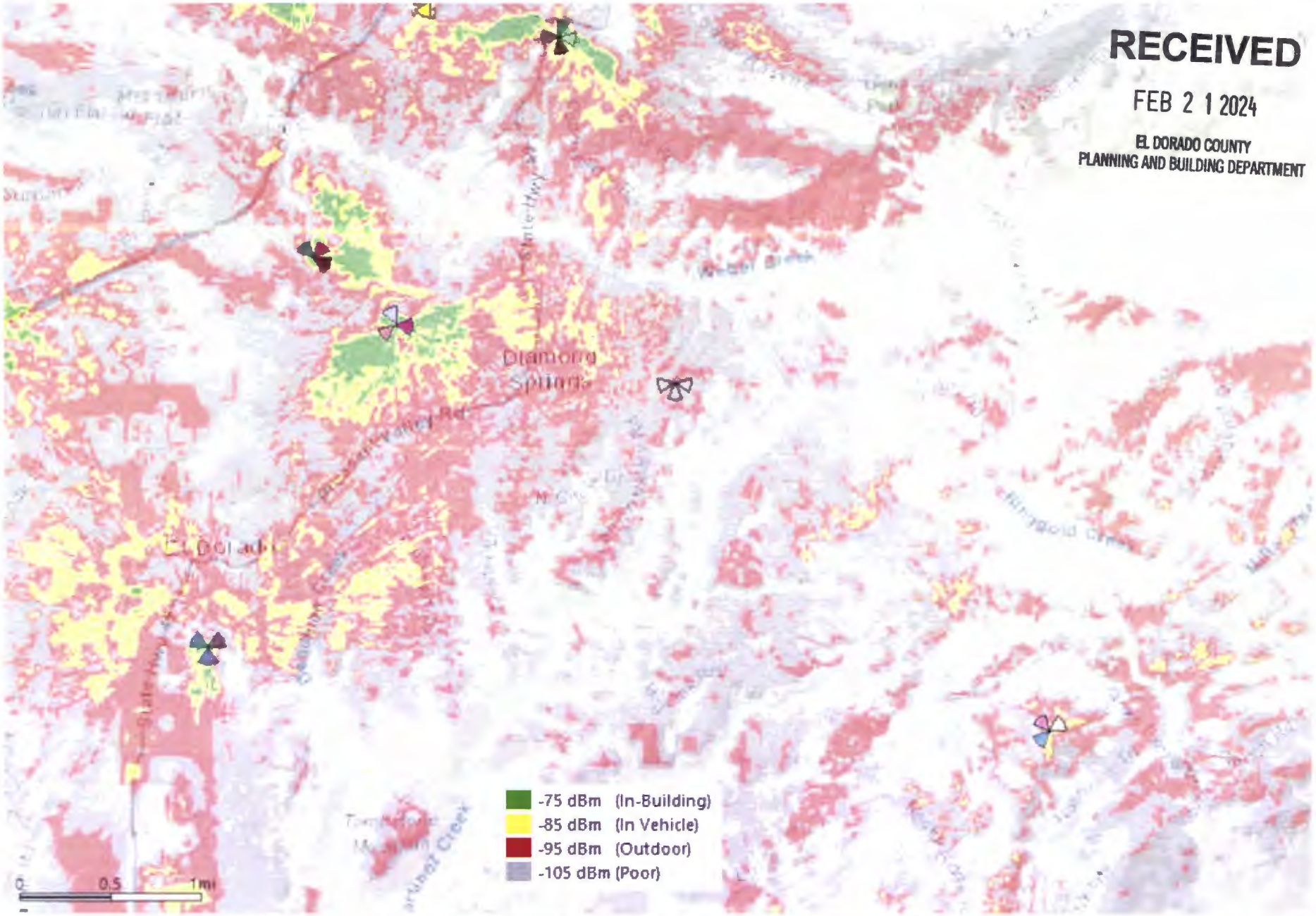
700 Best Server With Diamond Springs



verizon

AWS COVERAGE

Existing AWS Coverage



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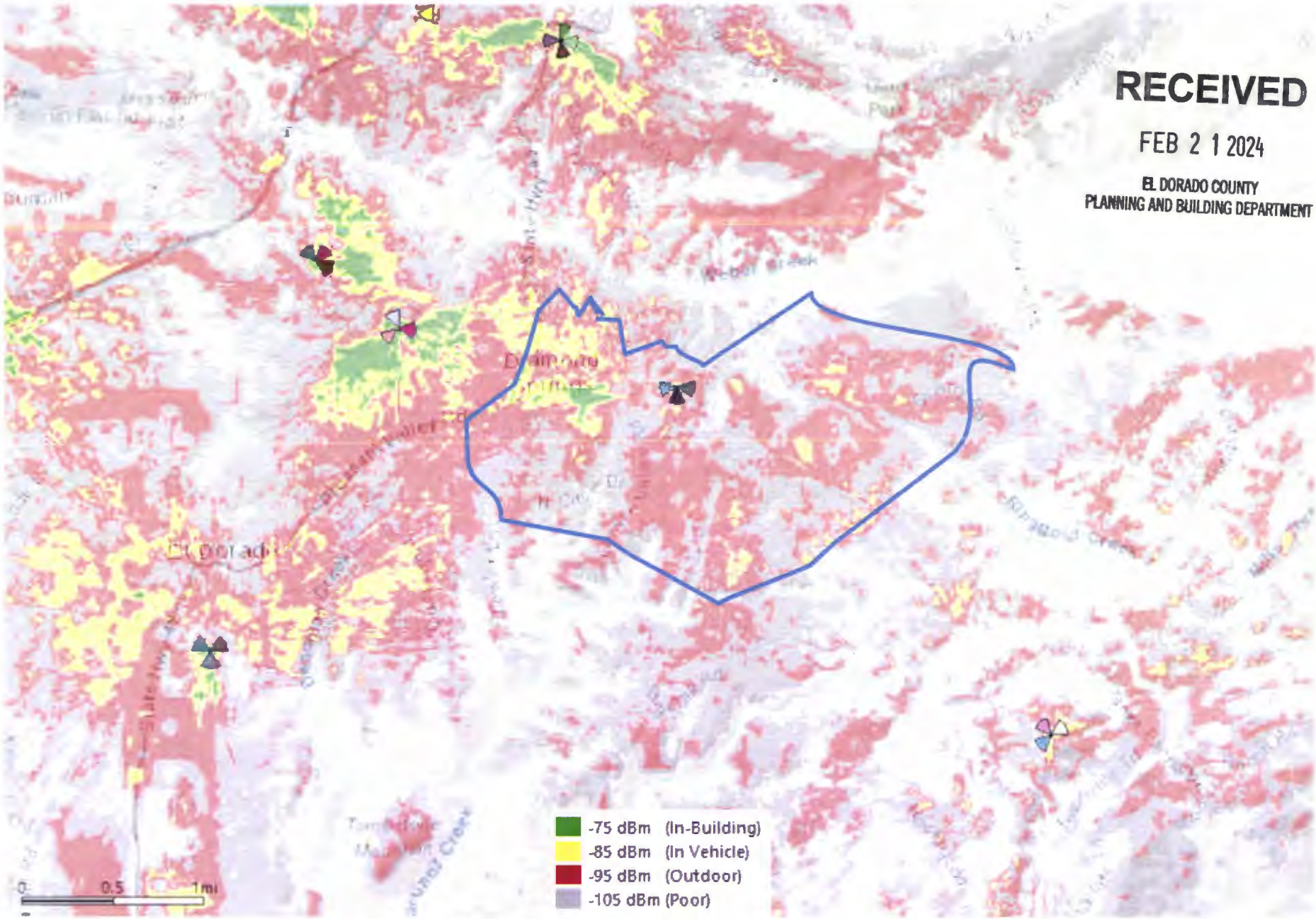
AWS Coverage With Diamond Springs



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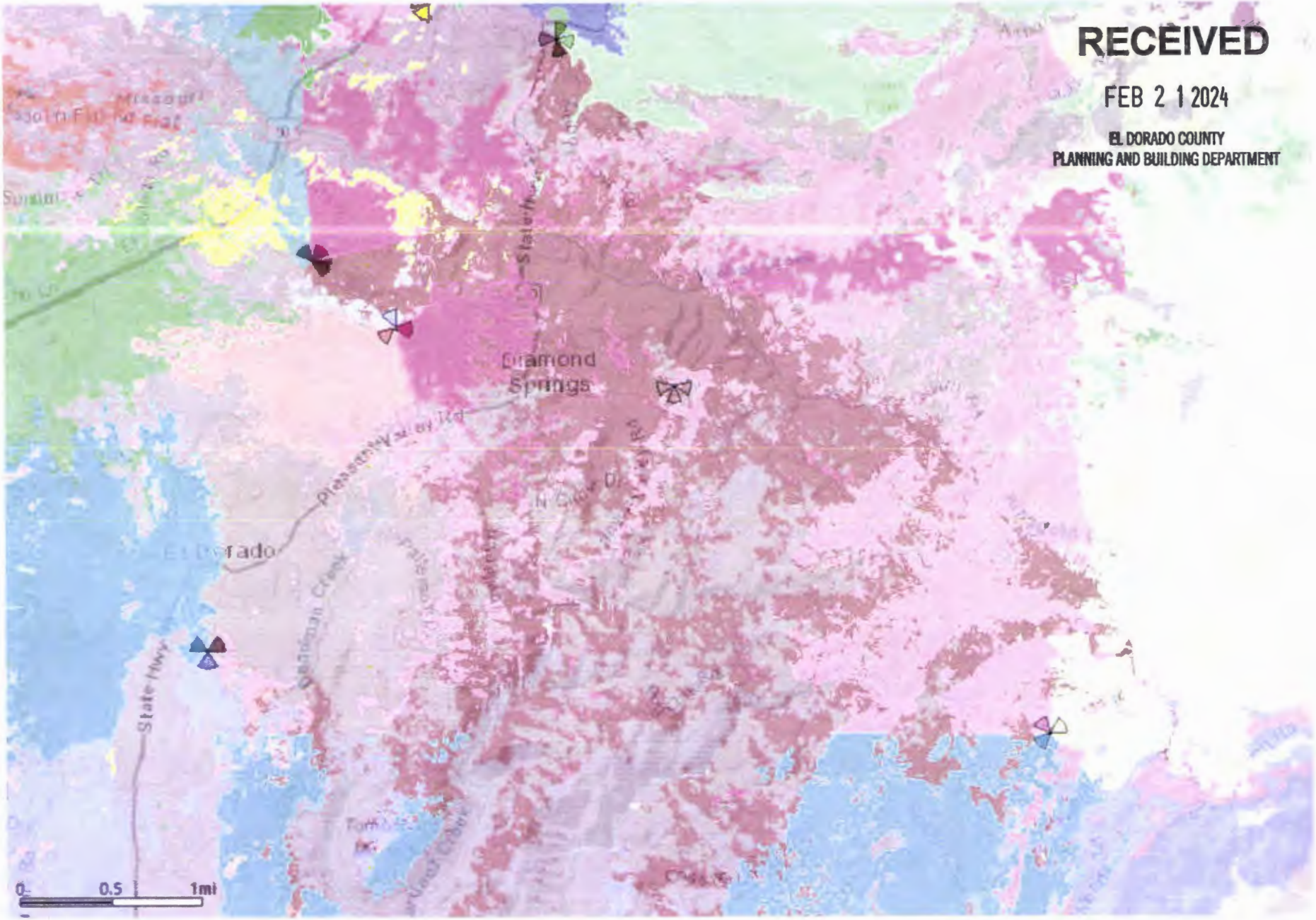
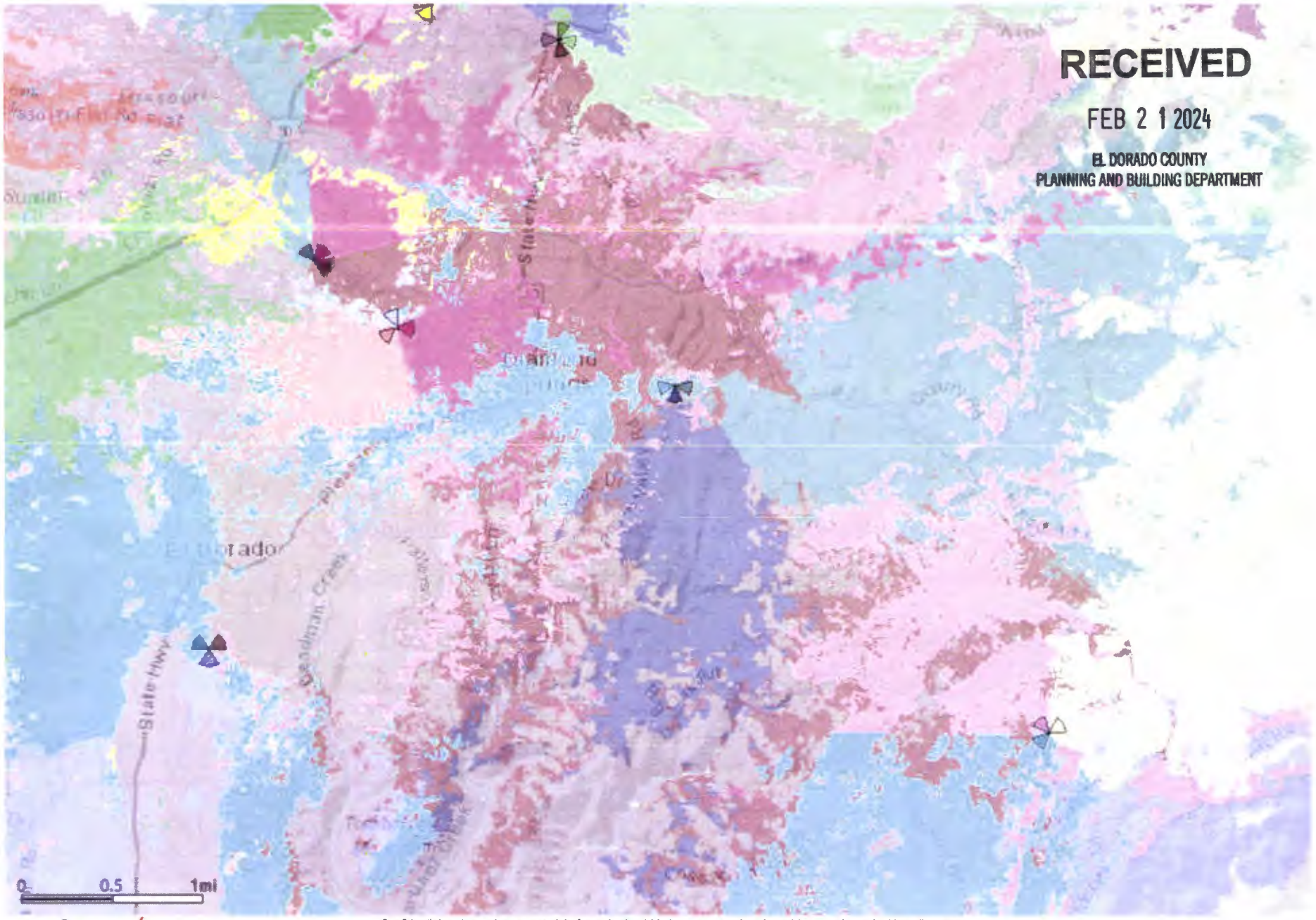
CUP24-0002

Existing AWS Best Server



verizon

AWS Best Server With Diamond Springs



verizon

Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

Site No. 451942
Diamond Springs
961 Pleasant Valley Road
Diamond Springs, California 95619
El Dorado County
38° 41' 43.85" N, -120° 47' 50.58" W NAD83

EBI Project No. 6224000086
January 16, 2024

Prepared for:

Verizon Wireless
c/o Complete Wireless Consulting, Inc.
2009 V Street
Sacramento, CA 95818

Prepared by:

EBI Consulting
environmental | engineering | due diligence

TABLE OF CONTENTS

APPENDICES

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless ("Verizon") to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site 451942 located at 961 Pleasant Valley Road in Diamond Springs, California to determine RF-EME exposure levels from proposed Verizon communications equipment at this site. As described in greater detail in Appendix C of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for the general public and for occupational activities. 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.

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 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Additionally, there are areas where workers who may be elevated above the ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **6.86** percent of the FCC's general public limit (**1.37** percent of the FCC's occupational limit).

Furthermore, with the proposed Verizon Wireless antenna configuration in-service, the composite exposure from this facility in all areas at the Ground level will be well below the General Population MPE limit in publicly accessible areas.

Recommended control measures are outlined in Section 4.0 and within the Site Safety Plan (attached); Verizon should also provide procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol. Non-telecom workers who will be working in areas of exceedance are required to contact Verizon since only Verizon has the ability to lockout/tagout the facility, or to authorize others to do so.

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per second (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area will potentially operate within a frequency range of 700 to 5000 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 a distance 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 in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes the following proposed wireless telecommunication antennas on a monotree located at 961 Pleasant Valley Road in Diamond Springs, California.

Ant #	Sector	Operator	Antenna Make	Antenna Model	Technology and Frequency (MHz)	Azimuth (Degrees)	Mechanical Downtilt (Degrees)	Horizontal Beamwidth (Degrees)	Aperture (feet)	Total Power Input (Watts)	Transmitter Count	Antenna Gain (dBd)	Total ERP (Watts)	Total EIRP (Watts)
1	Alpha	Verizon	ERICSSON	SON_AIR6419 TB 03.21.2023 3700 VZW	LSub6 3700	80	0	11	2.4	320	1	23.45	70819.03	116143.21
2	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	100	0	48	8.0	120	2	15.42	4180.05	6855.28
2	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	100	0	43	8.0	120	2	16.2	5002.43	8203.99
2	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 1900	LTE 1900	100	0	38	8.0	240	4	17.39	13158.65	21580.18
3	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	100	0	48	8.0	120	2	15.42	4180.05	6855.28
3	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	100	0	43	8.0	120	2	16.2	5002.43	8203.99
3	Alpha	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 2100	LTE 2100	100	0	41	8.0	240	4	17.84	14595.24	23936.19
4	Beta	Verizon	ERICSSON	SON_AIR6419 TB 03.21.2023 3700 VZW	LSub6 3700	180	0	11	2.4	320	1	23.45	70819.03	116143.21
5	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	180	0	48	8.0	120	2	15.42	4180.05	6855.28
5	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	180	0	43	8.0	120	2	16.2	5002.43	8203.99
5	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 1900	LTE 1900	180	0	38	8.0	240	4	17.39	13158.65	21580.18
6	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	180	0	48	8.0	120	2	15.42	4180.05	6855.28
6	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	180	0	43	8.0	120	2	16.2	5002.43	8203.99
6	Beta	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 2100	LTE 2100	180	0	41	8.0	240	4	17.84	14595.24	23936.19
7	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	260	0	48	8.0	120	2	15.42	4180.05	6855.28

Ant #	Sector	Operator	Antenna Make	Antenna Model	Technology and Frequency (MHz)	Azimuth (Degrees)	Mechanical Downtilt (Degrees)	Horizontal Beamwidth (Degrees)	Aperture (feet)	Total Power Input (Watts)	Transmitter Count	Antenna Gain (dBd)	Total ERP (Watts)	Total EIRP (Watts)
7	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	260	0	43	8.0	120	2	16.2	5002.43	8203.99
7	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 1900	LTE 1900	260	0	38	8.0	240	4	17.39	13158.65	21580.18
8	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 700	LTE 700	260	0	48	8.0	120	2	15.42	4180.05	6855.28
8	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-10DT 850	LTE/5G 850	260	0	43	8.0	120	2	16.2	5002.43	8203.99
8	Gamma	Verizon	COMMSCOPE	SON_NHH-45C-R2B 00DT-08DT 2100	LTE 2100	260	0	41	8.0	240	4	17.84	14595.24	23936.19
9	Gamma	Verizon	ERICSSON	SON_AIR6419 TB 03.21.2023 3700 VZW	LSub6 3700	280	0	11	2.4	320	1	23.45	70819.03	116143.21

• Note there are 3 proposed Verizon antennas at each Sector at this site. For clarity, the different frequencies for each antenna are entered on separate lines.

Ant #	NAME	X	Y	Antenna Radiation Centerline	Z-Height Adjacent Utility Pole	Z-Height Adjacent Building Roof	Z-Height Ground
1	Verizon	89.5	107.5	122.7	92.7	112.7	122.7
2	Verizon	89.3	104.5	120.0	90.0	110.0	120.0
3	Verizon	89.3	103.1	120.0	90.0	110.0	120.0
4	Verizon	86.5	99.9	122.7	92.7	112.7	122.7
5	Verizon	83.3	99.9	120.0	90.0	110.0	120.0
6	Verizon	82.1	99.9	120.0	90.0	110.0	120.0
7	Verizon	80.0	102.6	120.0	90.0	110.0	120.0
8	Verizon	80.0	104.0	120.0	90.0	110.0	120.0
9	Verizon	80.0	107.3	122.7	92.7	112.7	122.7

• Note the Z-Height represents the distance from the antenna centerline.

The above tables contain an inventory of proposed Verizon Antennas and other carrier antennas if sufficient information was available to model them. Note that EBI uses an assumed set of antenna specifications and powers for unknown and other carrier antennas for modeling purposes. 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 public that may be exposed to antenna fields. While access to this site is considered controlled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional information regarding controlled/uncontrolled exposure limits is provided in Appendix C. Appendix B presents a site safety plan that provides a plan view of the monotree with antenna locations.

3.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical MPE modeling using RoofMaster™ software to estimate the worst-case power density at the site's nearby broadcast levels resulting from operation of the antennas. RoofMaster™ is a widely-used predictive modeling program that has been developed by Waterford Consultants to predict RF power density values for rooftop and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. Using the computational methods set forth in Federal Communications

Commission (FCC) Office of Engineering & Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (OET-65), RoofMaster™ calculates predicted power density in a scalable grid based on the contributions of all RF sources characterized in the study scenario. At each grid location, the cumulative power density is expressed as a percentage of the FCC limits. Manufacturer antenna pattern data is utilized in these calculations. RoofMaster™ models consist of the Far Field model as specified in OET-65 and an implementation of the OET-65 Cylindrical Model (Sula9). The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by Verizon and compared the resultant worst-case MPE levels to the FCC's occupational/controlled exposure limits outlined in OET Bulletin 65. The assumptions used in the modeling are based upon information provided by Verizon and information gathered from other sources. The parameters used for modeling are summarized in the Site Description antenna inventory table in Section 2.0.

There are no other carrier antennas on the monotree.

Based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed Verizon antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 6.86 percent of the FCC's general public limit (1.37 percent of the FCC's occupational limit).

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. 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.

There are no modeled areas on the ground that exceed the FCC's limits for general public or occupational exposure in front of the other carrier antennas.

The inputs used in the modeling are summarized in the Site Description antenna inventory table in Section 2.0. A graphical representation of the RoofMaster™ modeling results is presented in Appendix B. Microwave dish antennas are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage. The maximum power density generated by all carrier antennas, including microwaves and panel antennas, is included in the modeling results presented within this report.

4.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Verizon antennas that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the ground. In accordance with the official Verizon Wireless Signage and Demarcation Policy for tower structures, no signage is recommended at this site.

Barriers are recommended for installation when possible to block access to the areas in front of the antennas that exceed the FCC general public and/or occupational limits. Barriers may consist of rope, chain, or fencing. Painted stripes should only be used as a last resort. There are no barriers recommended on this site.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the monotree should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

To reduce the risk of exposure, EBI recommends that access to areas associated with the active antenna installation be restricted and secured where possible. All workers and individuals, including arborists and landscapers, accessing the monotree along with nearby elevated structures or trees within areas exceeding the general public MPE must be made aware of the presence and locations of antennas and their associated fields, where applicable.

5.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number 451942 located at 961 Pleasant Valley Road in Diamond Springs, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site.

Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 4.0 and within the Site Safety Plan (attached); Verizon should also provide procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol. Non-telecom workers who will be working in areas of exceedance are required to contact Verizon since only Verizon has the ability to lockout/tagout the facility, or to authorize others to do so.

6.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. 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 EBI are based solely on the information provided by the client. 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 EBI 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.

Appendix A

Certifications

Preparer Certification

I, Kobi Thompson, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I 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.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

Kobi Thompson

Reviewed and Approved by:

sealed 17jan2024

Michael McGuire
Electrical Engineer
mike@h2dc.com

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

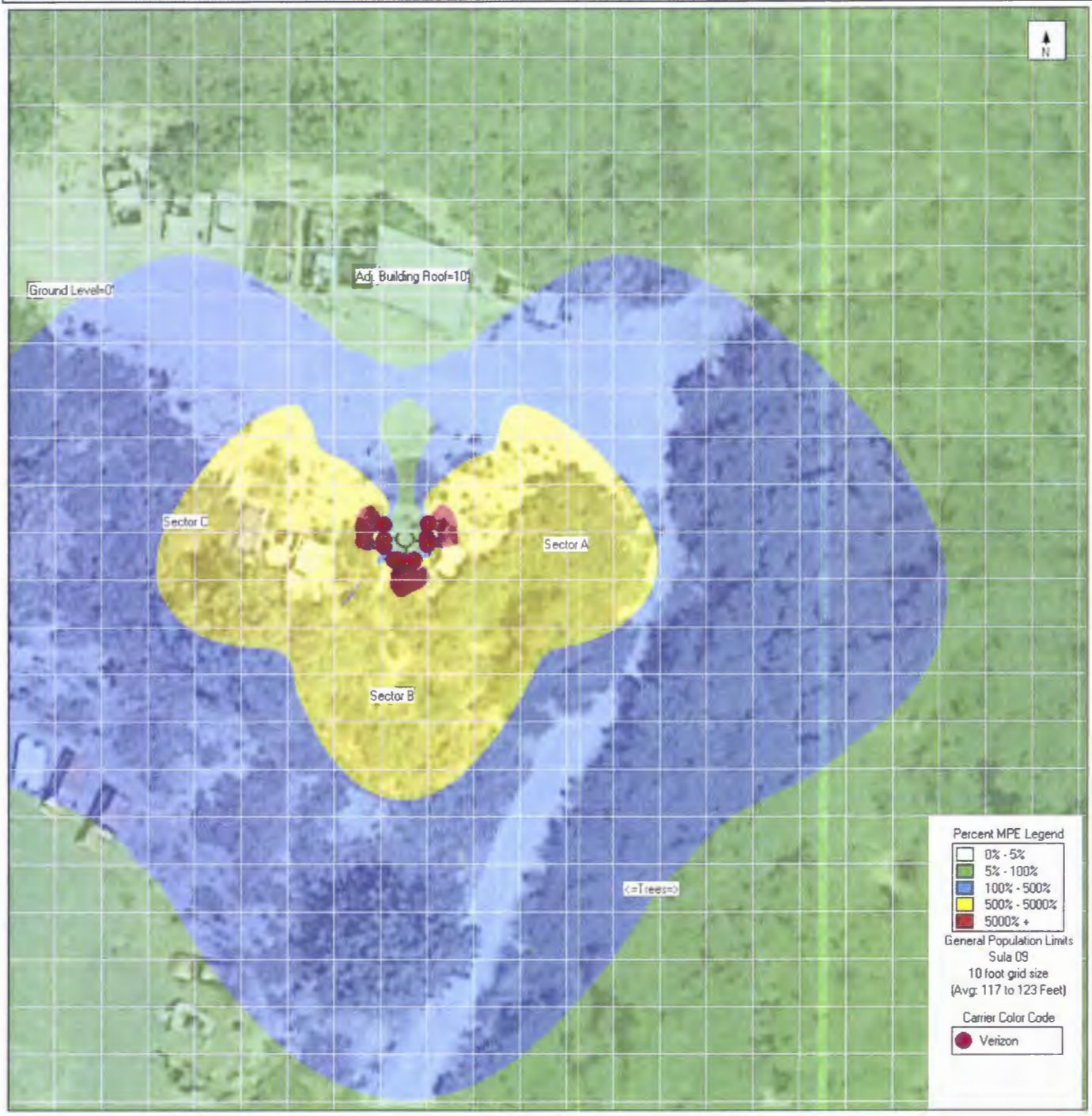
Appendix B

Radio Frequency Electromagnetic Energy

Safety Information and Signage Plans

Nearest Walking Surface (Adjacent Building Roof)

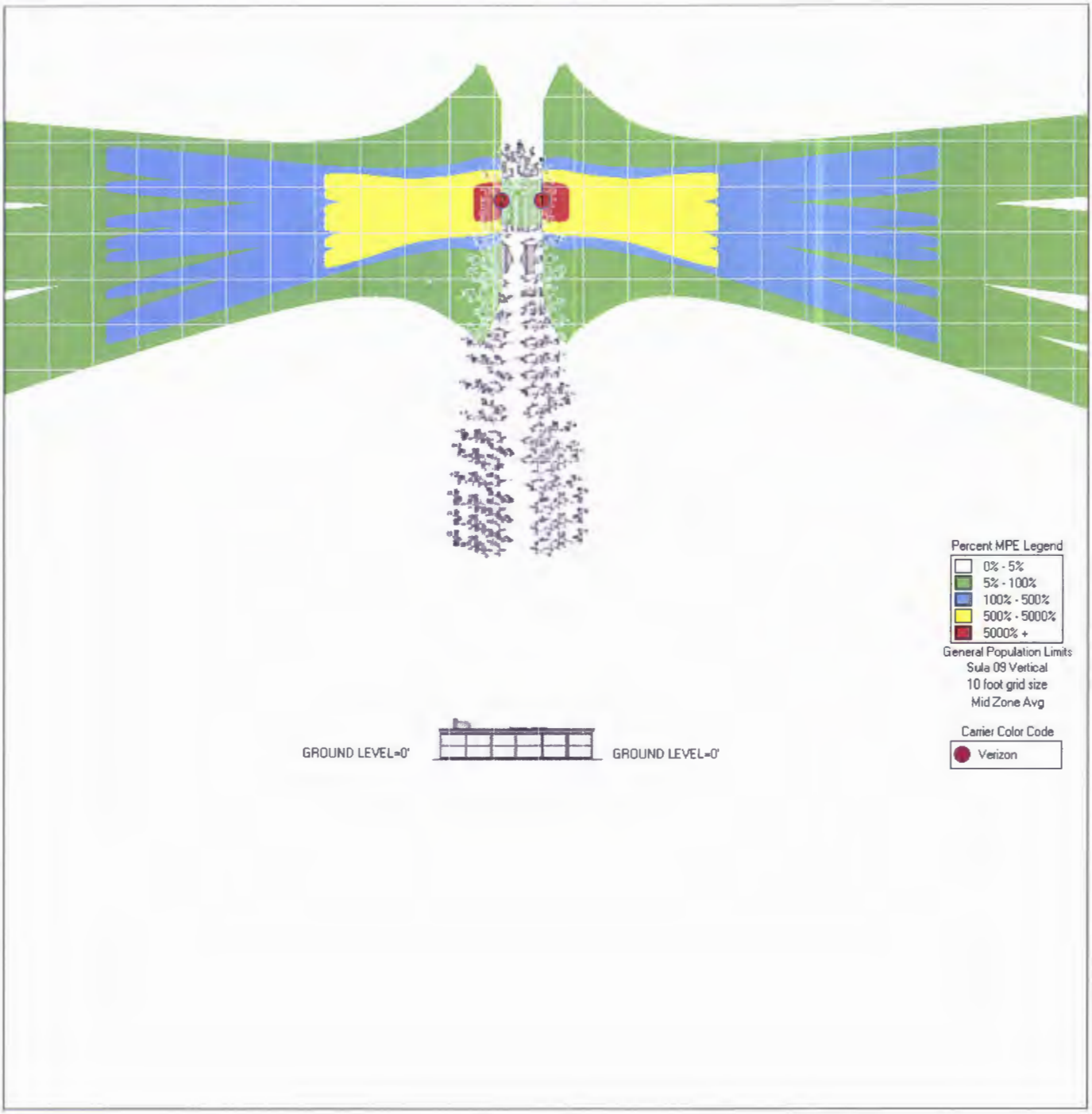
Verizon's Antenna Face Level



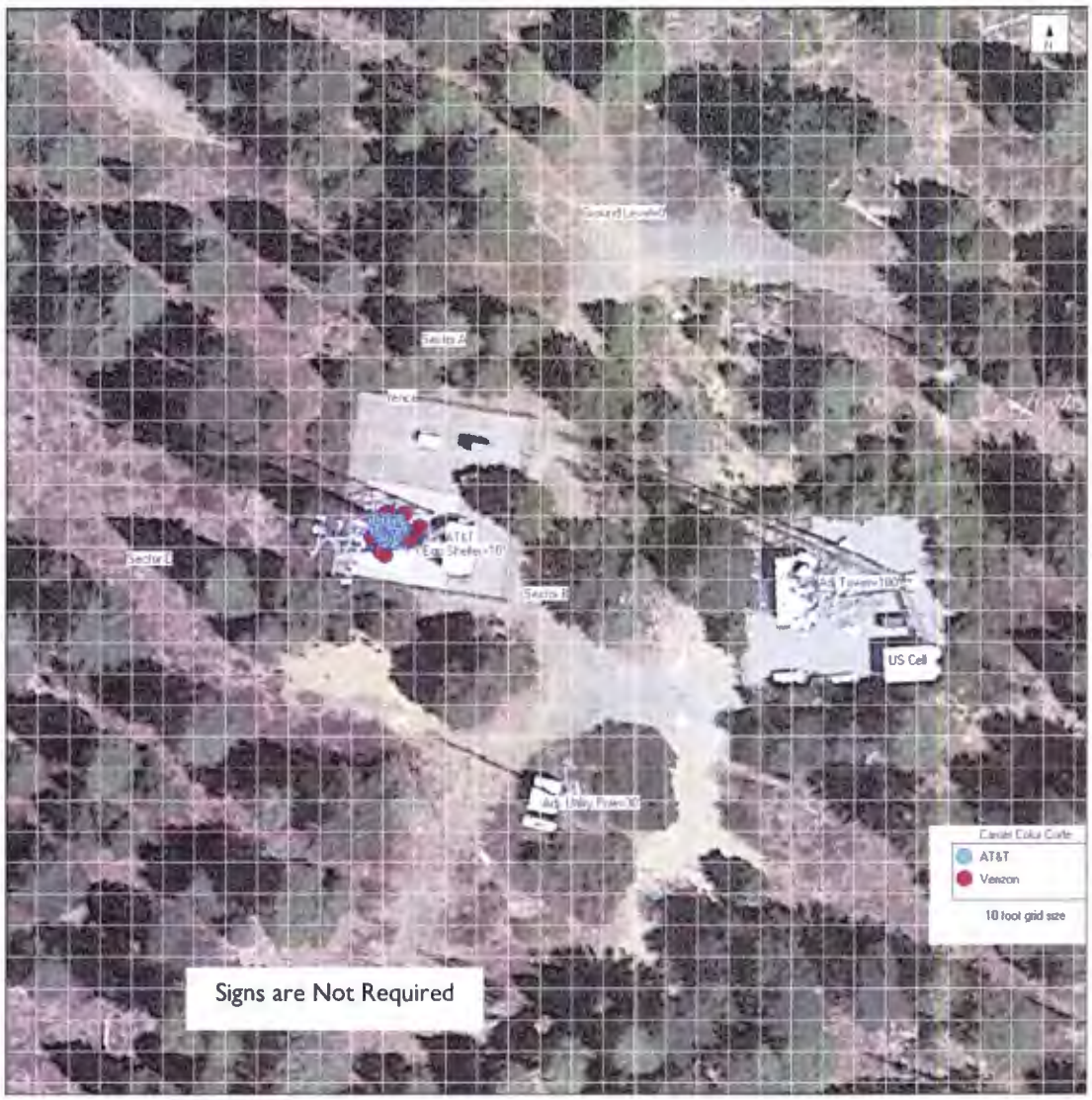
Adjacent Utility Pole Level

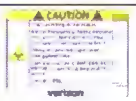
Ground Level

Elevation View



Verizon Signage Plan

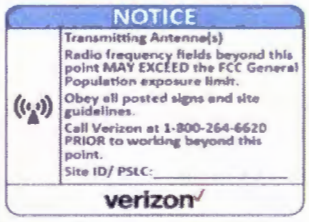
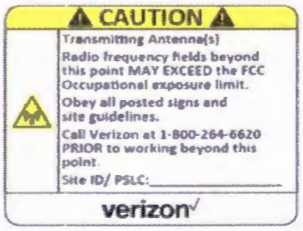
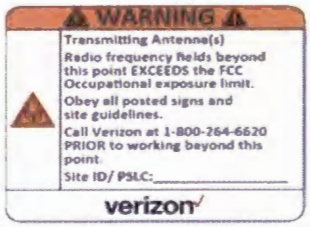


Sign	Posting Instructions	Required Signage / Mitigation
	Securely post at every point of access to the site in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Signage not required.
	Securely post at every point of access to the site in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Signage not required.
	Securely post in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Signage not required.
	Securely post in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Signage not required.
	Securely post in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Signage not required.

RF Signage and Safety Information

RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage MUST be viewable regardless of the viewer's position.

GUIDELINES	Category Two - Notice	Category Three - Caution	Category Four - Warning
This sign will inform anyone of the basic precautions to follow when entering an area with transmitting radiofrequency equipment.	This sign indicates that RF emissions may exceed the FCC General Population MPE limit. • Sign Color Blue • Sign Signal Word "Notice"	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit. • Sign Color Yellow • Sign Signal Word "Caution"	This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit. • Sign Color Orange for Warning • Sign Signal Word "Warning"
			

Category One - Information	
Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the Verizon Wireless Network Operations Center phone number. • Sign Color Green • Sign Signal Word "Information"	

Physical Barriers

Physical barriers are control measures that require awareness and participation of personnel. Physical barriers are employed as an additional administration control to complement RF signage and physically demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** chain-connected stanchions

Indicative Markers

Indicative markers are visible control measures that require awareness and participation of personnel, as they cannot physically prevent someone from entering an area of potential concern. Indicative markers are employed as an additional administration control to complement RF signage and visually demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** paint stripes

Occupational Safety and Health Administration (OSHA) Requirements

A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: 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

Appendix C

Federal Communications

Commission (FCC) Requirements

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency 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 public/uncontrolled exposure limits for members of the general public.

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 public/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 public/uncontrolled exposure limits apply to situations in which the general public 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 public 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.

Table 1 and Figure 1 (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 (cm^2). Known as the power density, the FCC has established for equipment operating at frequencies range from 300 Mhz to 1,500 Mhz the Occupational/Controlled limit of (f/300) mW/cm^2 where f is the Frequency in (MHz) and the General Population / Uncontrolled limit of (f/1500) mW/cm^2 where f is the Frequency in (MHz). For equipment operating at frequency ranges from 1900 MHz to 100,000 MHz, the FCC's occupational MPE is 5.0 mW/cm^2 and an uncontrolled MPE limit of 1.0 mW/cm^2. These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure

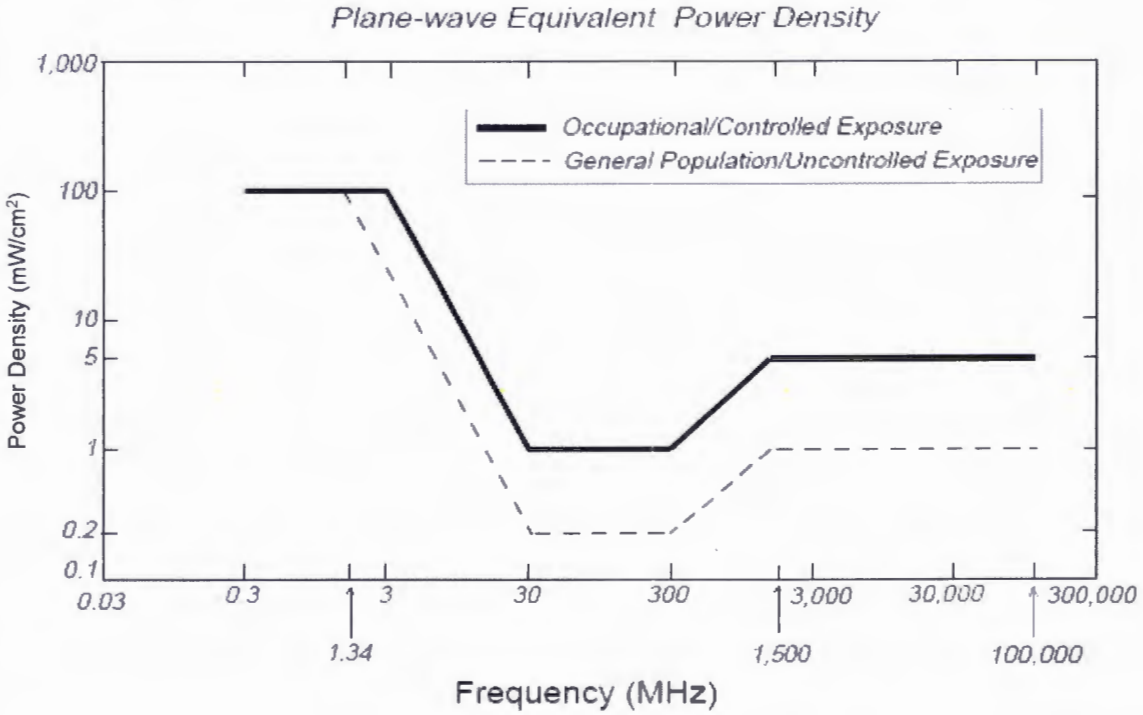
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $[E]^2$, $[H]^2$, or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6

(B) Limits for General Public/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	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)
* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)



MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Verizon in this area will potentially operate within a frequency range of 700 to 2100 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.

FCC Compliance Requirement

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.

Environmental Noise Assessment

Diamond Springs Verizon Cellular Facility

El Dorado County, California

BAC Job # 2023-167

Prepared For:

Complete Wireless Consulting

Attn: Jerry Agloro
2009 V Street
Sacramento, CA 95818

Prepared By:

Bollard Acoustical Consultants, Inc.

Dario Gotchet, Principal Consultant

January 30, 2024

BOLLARD
Acoustical Consultants

Introduction

The Diamond Springs Verizon Wireless Unmanned Telecommunications Facility (project) proposes the installation of cellular equipment within a lease area located at 961 Pleasant Valley Road in El Dorado County, California (APN: 097-030-038). The outdoor equipment cabinets and an emergency standby diesel generator have been identified as the primary noise sources associated with the project. The project site location with aerial imagery is shown in Figure 1. The studied site drawings are dated November 9, 2023.

Bollard Acoustical Consultants, Inc. has been contracted by Complete Wireless Consulting, Inc. to complete an environmental noise assessment regarding the proposed project cellular equipment operations. Specifically, the following assessment addresses daily noise production and exposure associated with operation of the project emergency generator and outdoor equipment cabinets.

Please refer to Appendix A for definitions of acoustical terminology used in this report. Appendix B illustrates common noise levels associated with various sources.

Criteria for Acceptable Noise Exposure

El Dorado County General Plan Noise Element

The El Dorado County General Plan Noise Element establishes acceptable noise level exposure for noise-sensitive land uses affected by non-transportation noise sources, such as those proposed by the project. The General Plan noise level standards have been reproduced and are provided below in Table 1.

Table 1
Noise Level Performance Standards for Noise-Sensitive Land Uses
Affected by Non-Transportation Sources

Noise Level	Daytime (7 a.m. – 7 p.m.)		Evening (7 p.m. – 10 p.m.)		Nighttime (10 p.m. – 7 a.m.)	
Descriptor (dB)	Community	Rural	Community	Rural	Community	Rural
Hourly average, L_{eq}	55	50	50	45	45	40
Maximum level, L_{max}	70	60	60	55	55	50

Notes:
-Each of the noise levels specified above shall be lowered by five dB for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings).
-The County can impose noise level standards which are up to 5 dB less than those specified above based upon determination of existing low ambient noise levels in the vicinity of the project site.
-In Community areas the exterior noise level standard shall be applied to the property line of the receiving property.
-In Rural Areas the exterior noise level standard shall be applied at a point 100' away from the residence. The above standards shall be measured only on property containing a noise sensitive land use as defined in Objective 6.5.1. This measurement standard may be amended to provide for measurement at the boundary of a recorded noise easement between all effected property owners and approved by the County.

Source: El Dorado County General Plan, Noise Element, Table 6-2.

Legend

Proposed Verizon Cellular Equipment Lease Area (Approximate)

Parcel Boundaries (Approximate)

N

Scale (Feet)

0 150 300

Diamond Springs Verizon Cellular Facility

El Dorado County, California

Proposed Cellular Facility Lease Area
& Nearby Residential Parcel

Figure 1

BOLLARD Acoustical Consultants

Noise Level Criteria Applied to the Project

The nearest identified off-site noise-sensitive uses have been identified as residences. According to the El Dorado County Land Use Diagram (dated December 4, 2015), the project parcel and nearest residences are located within a Community Region of the County. As a result, the noise level standards applicable to noise-sensitive uses located within Community Areas (Table 1) have been applied to project equipment noise exposure and assessed at the property line of the nearest residential use. Compliance with the County's noise level criteria at the closest residential use would ensure for compliance at residential uses located farther away.

Project Noise Generation

As discussed previously, there are two project noise sources which are considered in this evaluation: the equipment cabinet cooling systems and the emergency diesel generator. The evaluation of potential noise impacts associated with the operation of each noise source is evaluated separately as follows:

Equipment Cabinet Noise Source and Reference Noise Levels

The project proposes the installation of three (3) equipment cabinets within the equipment lease area shown in Figure 1. Based on the provided site plans, the cabinets assumed for the project are three (3) Charles Industries 48V Power Plants. The equipment cabinet model and reference noise level are provided in Table 2. The manufacturer's noise level data specification sheets for the proposed equipment cabinets are provided as Appendix C.

Table 2
Reference Noise Level Data of Proposed Equipment Cabinets

Equipment	Number of Cabinets	Reference Noise Level (dB)	Reference Distance (ft)
Charles Industries 48V Power Plant	3	60	5
Note: Manufacturer specification sheets provided as Appendix C.			

Generator Noise Source and Reference Noise Level

The project also proposes the installation of an emergency standby diesel generator within the lease area to maintain cellular service during emergency power outages. Based on the project site plans, the generator assumed for the project is a Generac Industrial Power Systems Model SD030. It is further assumed that the proposed generator will be equipped with the Level 2 Acoustic Enclosure resulting in a reference noise level of 68 dB at a distance of 23 feet. The manufacturer's noise level data specification sheet for the proposed generator and acoustical enclosure is provided as Appendix D.

The generator which is proposed at this site would only operate during emergencies (power outages) and brief daytime periods for periodic maintenance/lubrication. According to the project applicant, testing of the generator would occur twice per month on weekdays only, during daytime hours, for a duration of approximately 15 minutes. The emergency generator would not operate at night, except during power outages. It is expected that nighttime operation of the project

emergency generator would be exempt from the County's exterior noise exposure criteria due to the need for continuous cellular service provided by the project equipment.

Predicted Facility Noise Levels at the Nearest Noise-Sensitive Use

Assuming standard spherical spreading loss (-6 dB per doubling of distance), project-equipment noise exposure at the property line of the nearest identified noise-sensitive use (residential) was calculated and the results of those calculations are presented in Table 3. The location of the closest identified residentially zoned parcel is shown in Figure 1.

Table 3
Project Equipment Noise Exposure at Nearest Noise-Sensitive Use

APN[1]	Distance from Equipment Lease Area[2]	Predicted Equipment Noise Levels (dBA)	
		Cabinets, L_{eq}[3]	Generator, L_{max}
097-030-030	150	35	52

[1] Residential parcel location is shown in Figure 1.
[2] Distance scaled from equipment lease area to property line of residential parcel using provided site plan and El Dorado County GIS mapping program (GOTNET).
[3] Combined noise level exposure from all proposed cabinets in operation concurrently.

Source: BAC 2024.

Because the proposed equipment cabinets could potentially be in operation continuously during nighttime hours, the operation of the cabinets would be subject to the El Dorado County General Plan *nighttime* hourly average noise level standard of 45 dB L_{eq} applicable to noise-sensitive uses located with Community Areas (Table 1). As indicated in Table 3, the predicted equipment cabinet noise level of 35 dB L_{eq} at the property line of the nearest identified noise-sensitive use (residentially zoned property, APN: 097-030-030) would satisfy the applicable General Plan 45 dB L_{eq} nighttime noise level limit by a wide margin. As a result, no further consideration of equipment cabinet noise mitigation measures would be warranted for the project.

Because the project generator would only operate during daytime hours for brief periods required for testing and maintenance (i.e., approximately 15 minutes), and because generator noise is assumed to be exempt during emergency operations, noise from the generator would be subject to the El Dorado County General Plan *daytime* maximum noise level limit of 70 dB L_{max} applicable to noise-sensitive uses located with Community Areas (Table 1). As shown in Table 3, the predicted generator noise level of 52 dB L_{max} at the property line of the nearest identified noise-sensitive use (residentially zoned property, APN: 097-030-030) would satisfy the applicable General Plan 70 dB L_{max} daytime noise level standard by a wide margin. As a result, no further consideration of emergency generator noise mitigation measures would be warranted for the project.

Conclusions

Based on the analysis and results presented in this report, project-related equipment noise exposure is expected to satisfy the applicable El Dorado County noise level criteria at the nearest identified noise-sensitive uses. As a result, no further consideration of equipment noise mitigation measures would be warranted for this project.

This concludes our environmental noise assessment for the proposed Diamond Springs Verizon Cellular Facility in El Dorado County, California. Please contact BAC at (530) 537-2328 or darioq@bacnoise.com with any questions or requests for additional information.

Appendix A
Acoustical Terminology

Acoustics The science of sound.

Ambient Noise The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.

Attenuation The reduction of an acoustic signal.

A-Weighting A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.

Decibel or dB Fundamental unit of sound. A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.

CNEL Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.

Frequency The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.

IIC Impact Insulation Class (IIC): A single-number representation of a floor/ceiling partition's impact generated noise insulation performance. The field-measured version of this number is the FIIC.

L_{dn} Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.

L_{eq} Equivalent or energy-averaged sound level.

L_{max} The highest root-mean-square (RMS) sound level measured over a given period of time.

Loudness A subjective term for the sensation of the magnitude of sound.

Masking The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.

Noise Unwanted sound.

Peak Noise The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the "Maximum" level, which is the highest RMS level.

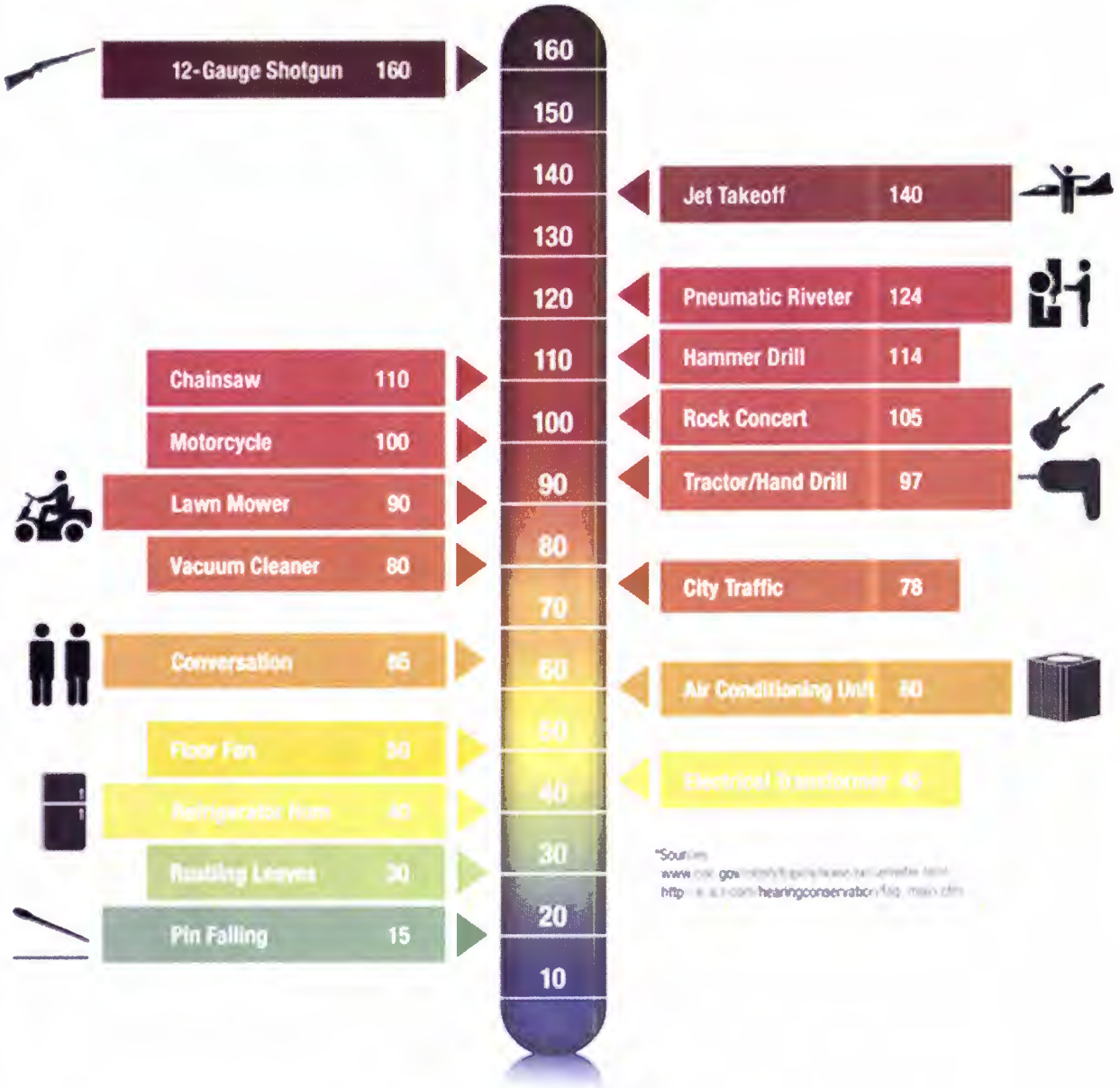
RT_{60} The time it takes reverberant sound to decay by 60 dB once the source has been removed.

STC Sound Transmission Class (STC): A single-number representation of a partition's noise insulation performance. This number is based on laboratory-measured, 16-band (1/3-octave) transmission loss (TL) data of the subject partition. The field-measured version of this number is the FSTC.

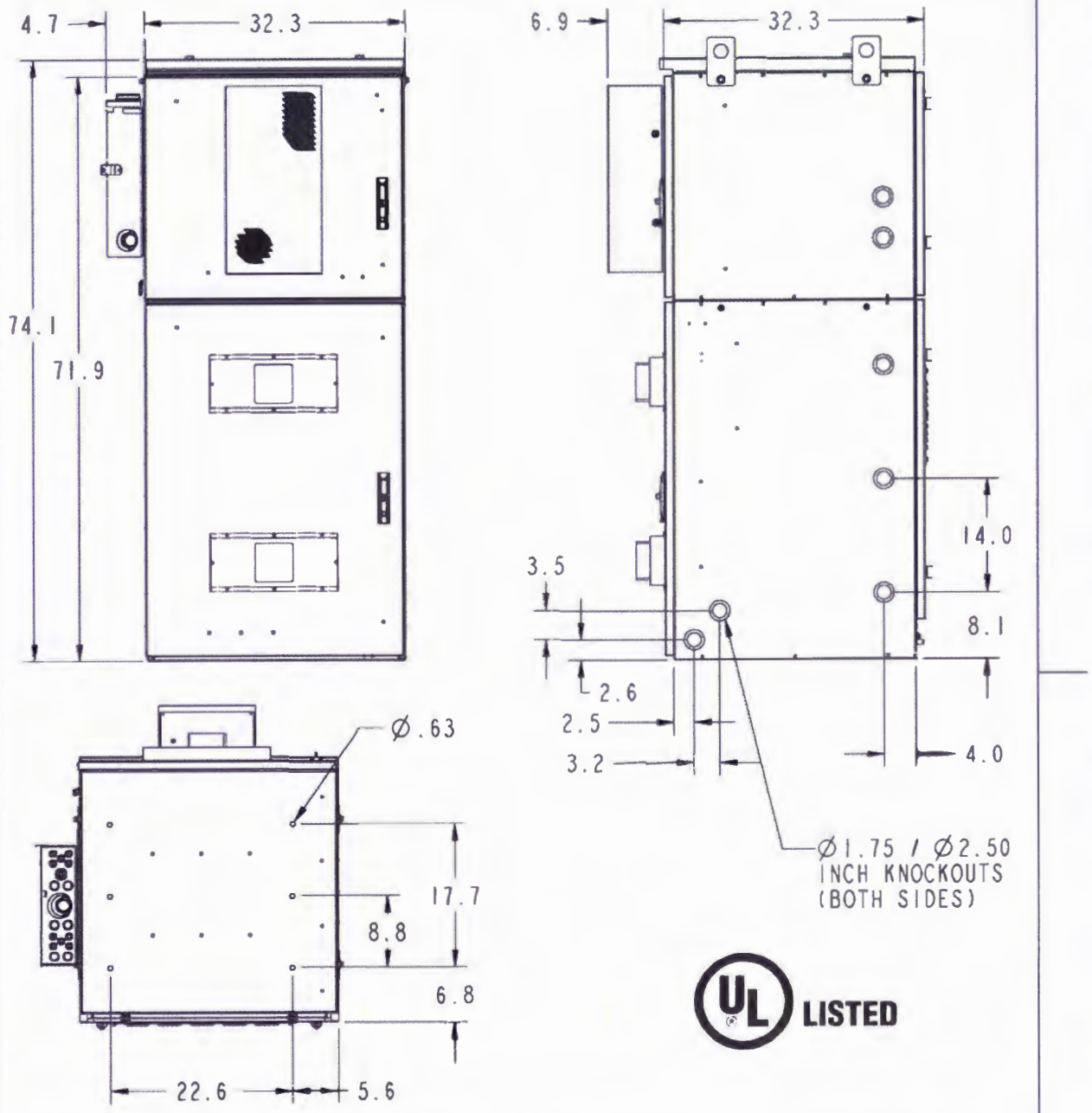
Appendix B

Typical A-Weighted Sound Levels of Common Noise Sources

Decibel Scale (dBA)*



Appendix C



UL LISTED

WEIGHT WITH BATTERIES:
2296 LBS.
NorthStar NSB-170FT batteries
at 128 lbs each, Qty 12

WEIGHT WITHOUT BATTERIES:
760 LBS.

MAX NOISE LEVEL:
55-60dB

CHARLES PART #
CUBE-SS4C215XC1

Charles Industries Ltd.
Telecommunications Group
Charles Center, 5600 Apollo Drive
Rolling Meadows, IL 60008
Telephone: 847-806-6300

Verizon Wireless
Large Site Support Enclosure

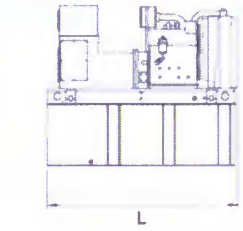
Appendix D

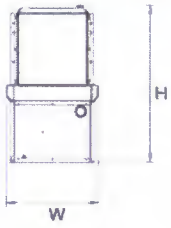
GENERAC INDUSTRIAL

30 kW Diesel

SD030

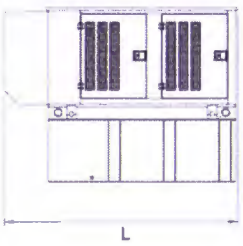
dimensions, weights and sound levels

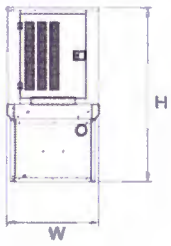




OPEN SET

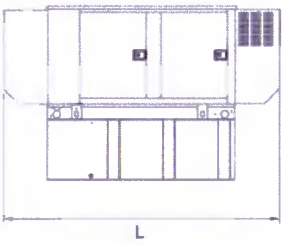
RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	76	38	46	2060	82
20	54	76	38	59	2540	
48	132	76	38	71	2770	
77	211	76	38	83	2979	
109	300	93	38	87	3042	





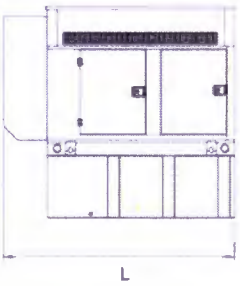
STANDARD ENCLOSURE

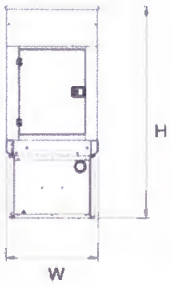
RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK		95	38	50	2362	77
20	54	95	38	63	2842	
48	132	95	38	75	3072	
77	211	95	38	87	3281	
109	300	95	38	91	3344	



LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK		113	38	50	2515	70
20	54	113	38	63	2995	
48	132	113	38	75	3225	
77	211	113	38	87	3434	
109	300	113	38	91	3497	





LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK		95	38	62	2520	68
20	54	95	38	75	3000	
48	132	95	38	87	3230	
77	211	95	38	99	3439	
109	300	95	38	103	3502	

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Tank Options

○	MDEQ	OPT
○	Florida DERM/DEP	OPT
○	Chicago Fire Code	OPT
○	IFC Certification	CALL
○	ULC	CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com

verizon

DIAMOND SPRINGS

961 PLEASANT VALLEY ROAD, DIAMOND SPRINGS, CA 95619
MDG LOCATION ID: 5000168151
PROJECT ID: 17126026

RECEIVED
FEB 2 1 2024
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

PROJECT DESCRIPTION

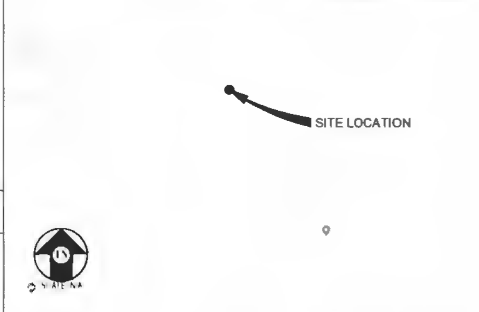
A (N) VERIZON WIRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING:

- (N) LEASE AREA W/ (N) GROUND MOUNTED CABINETS & (N) DIESEL GENERATOR & (N) UTILITIES TO (N) SITE LOCATION
- (N) MONOPINE W/ (N) ANTENNAS & ANTENNA EQUIPMENT

PROJECT INFORMATION

SITE NAME	DIAMOND SPRINGS
MDG LOCATION ID:	5000168151
COUNTY:	EL DORADO
JURISDICTION:	EL DORADO COUNTY
APN:	097-030-038
SITE ADDRESS	961 PLEASANT VALLEY ROAD DIAMOND SPRINGS, CA 95619
CURRENT ZONING:	GENERAL COMMERCIAL (GC)
CONSTRUCTION TYPE	V-B
OCCUPANCY TYPE	U, (UNMANNED COMMUNICATIONS FACILITY)
POWER:	PG&E
LATITUDE:	N 38° 41' 43.85" NAD 83 N 38.695514° NAD 83
LONGITUDE:	W 120° 47' 50.58" NAD 83 W 120.797383° NAD 83
GROUND ELEVATION:	1963.5' AMSL
PROPERTY OWNER:	ZELLER GLOYD D JR & ZELLER ELIA S P.O. BOX 64 DIAMOND SPRINGS, CA 95619
APPLICANT:	VERIZON WIRELESS 2770 SHADELANDS DR, BLDG 11 WALNUT CREEK, CA 94598
SITE ACQUISITION COMPANY:	COMPLETE WIRELESS CONSULTING 2009 V STREET SACRAMENTO, CA 95818
LEASING CONTACT:	ATTN: PAUL BARNES (916) 217-2309 PBARNES@COMPLETEWIRELESS.NET
ZONING CONTACT:	ATTN: KEVIN GALLAGHER (916) 764-2632 KGALLAGHER@COMPLETEWIRELESS.NET
CONSTRUCTION CONTACT:	ATTN: DAN JEFFERSON (916) 224-5578 DJEFFERSON@COMPLETEWIRELESS.NET

VICINITY MAP



CODE COMPLIANCE

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

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, VOLUME 1&2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
ANSI/EIA-TIA-222-H

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5

SHEET INDEX

SHEET	DESCRIPTION	REV
T-1.1	TITLE SHEET	-
C-1	TOPOGRAPHIC SURVEY	-
A-1.1	OVERALL SITE PLAN	-
A-1.2	EQUIPMENT PLAN	-
A-2.1	ANTENNA PLAN	-
A-3.1	ELEVATIONS	-
A-4.1	DETAILS	-
E-1.1	ELECTRICAL PLAN	-

Issued For
DIAMOND SPRINGS
961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR
verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor
COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID	5000168151
PROJECT ID	17126026
DRAWN BY	
CHECKED BY	N GEORGE
APPROVED BY	

ISSUE STATUS

3	01/17/24	CLIENT REV	D H
2	11/09/23	ZD 100%	A A
1	08/21/23	CLIENT REV	A A
0	08/16/23	ZD 90%	-

Licensee
PRELIMINARY: NOT FOR CONSTRUCTION
KEVIN R SORENSEN
54469

ENGINEER
Streamline Engineering

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1.1

CUP24-0002

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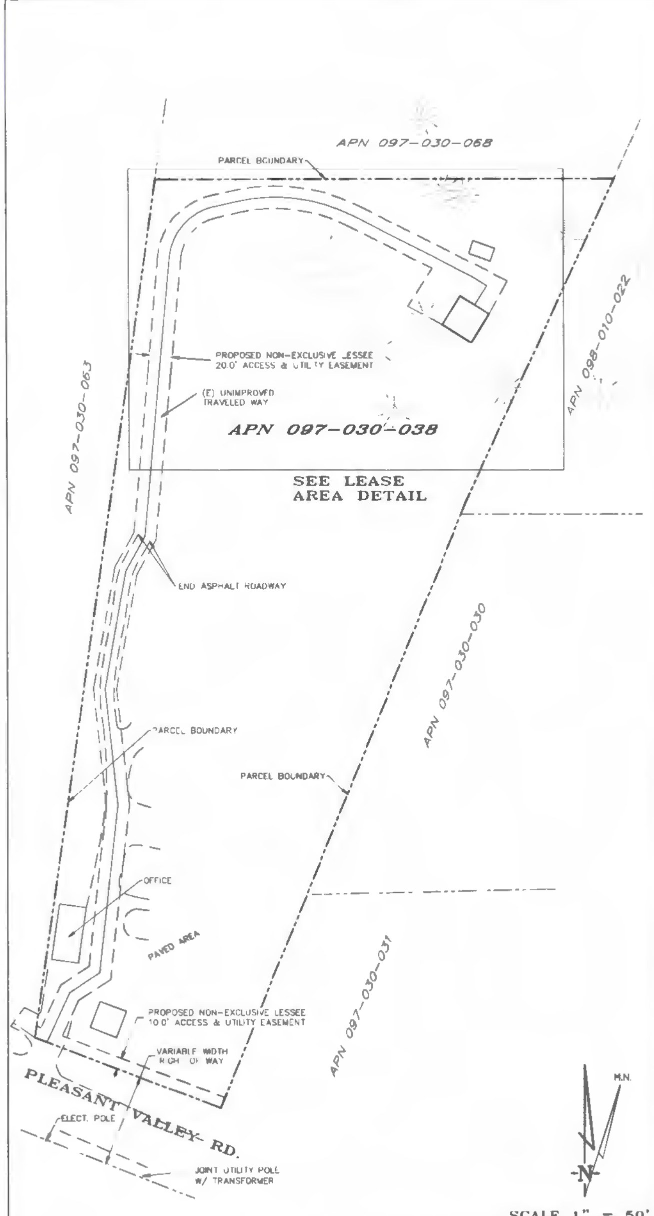


OVERALL PROJECT AREA

All that certain lease area being ocated in the unincorporated area of the County of E Dorado, State of California and being a portion of the "El Dorado Mining Claim, Mineral Survey No. 6178, situate in the Northeast quarter of Section 30, Township 10 North, Range 11 East, M D.B. & M., more particularly described as follows. Commencing at a point on the East ine of the Concordia Claim which in the Northwest corner of the parcel herein described from thence the Northwest corner of the El Dorado Claim, a 1 inch brass capped iron pipe Survey 6178, bears South 89° 54' 00" West 138.89 feet, thence from said point of beginning along the Northerly boundary of the El Dorado Claim North 89° 54' 00" East 399.70 feet to the Westerly line of the Superior Claim; thence South 24° 28' 20" West 313.07 feet to a 1 inch open iron pipe found at a fence corner, thence South 21 53' 30' West 575.35 feet to the Northerly edge of a County Road; thence North 69° 00' 10' West 174 38 feet along the Northerly edge of said County Road; thence North 08° 05' 00" East 763 19 feet to the point of beginning.

Said lease area beginning at a point which bears North 21°53'30" East, a distance of 575.35 feet, North 24°28'20" East, a distance of 159.39 feet and North 65°34'14" West, a distance of 49 40 feet from the Southeast most corner of the above described parcel of land, thence North 57°58'50" West, a distance of 30.00 feet; thence from said point of beginning South 32°01'10" West, a distance of 30.00 feet, thence South 57°58'50" East, a distance of 30.00 feet; thence North 32°01'10" East, a distance of 30.00 feet to the point of beginning.

Together with an easement for access and utility purposes, twenty feet in width, the center line of which is described as follows: Beginning at a point on the Northerly edge of a County Road which bears North 68°59'52" West, a distance of 163.11 feet from the Southeast corner of the above described parcel of land, thence from said point of beginning North 24°34'01" East, a distance of 47.69 feet, thence North 56°51'15" East, a distance of 32.15 feet; thence North 6°08'59" East, a distance of 148.14 feet, thence North 6°06'37" West, a distance of 102.97 feet; thence North 10°04'32" East, a distance of 105.34 feet; thence North 28°41'35" East, a distance of 34.79 feet; thence North 5°08'57" East, a distance of 247 20 feet to the point of curvature of a tangent curve, concave to the southeast, having a radius of 50 00 feet and a central angle of 75°41'48"; thence northerly along said curve, a distance of 62.63 feet; thence North 76°54'45" East, a distance of 20.14 feet to the point of curvature of a tangent curve, concave to the south, having a radius of 150.00 feet and a central angle of 40°23'41", thence easterly along said curve, a distance of 105.75 feet; thence South 62°41'34" East, a distance of 116.10 feet; thence South 57°58'50" East, a distance of 15.00 feet to a point hereafter referred to as Point A.

Also together with an easement for access and utility purposes, thirty feet in width, the center line of which is described as follows: Beginning at the above described Point A and running thence South 32°01'10" West, a distance of 20.00 feet to the above described lease area.

Also together with an easement for access and utility purposes, over and across the Southwesterly 10.0 feet of the above described parcel of land.

Project Name	Diamond Springs
Project Site Location	961 Pleasant Valley Road Diamond Springs, CA 95619 El Dorado County
Parcel Number	097-030-038
Date of Observation	08-01-23

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

Type of Antenna Mount. Proposed Monopine

Coordinates

Latitude:	N 38°41'43.85" (NAD83)	N 38°41'44.20" (NAD27)
Longitude:	W 120°47'50.58" (NAD83)	W 120°47'46.81" (NAD27)
Latitude.	N 38.695514° (NAD83)	N 38.695611° (NAD27)
Longitude:	W 120 797383° (NAD83)	W 120.796337° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1963.5' AMSL

DATE OF SURVEY: 08-01-23

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.

FEMA FIRM ZONE "X" PER FIRM 06017C0775E DATED 09/26/2008.

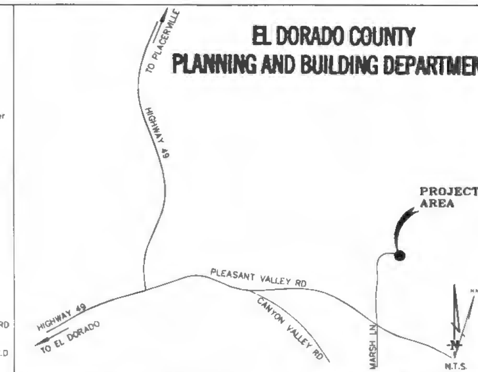
N.G.V.D. 1929 CORRECTION: SUBTRACT 2.76' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: 1 FT.

ASSESSOR'S PARCEL NUMBER: 097-030-038

LANDLORD(S). ZELLER GLOYD O JR. ZELLER ELIA S
PO BOX 64
DIAMOND SPRINGS, CA 95619

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

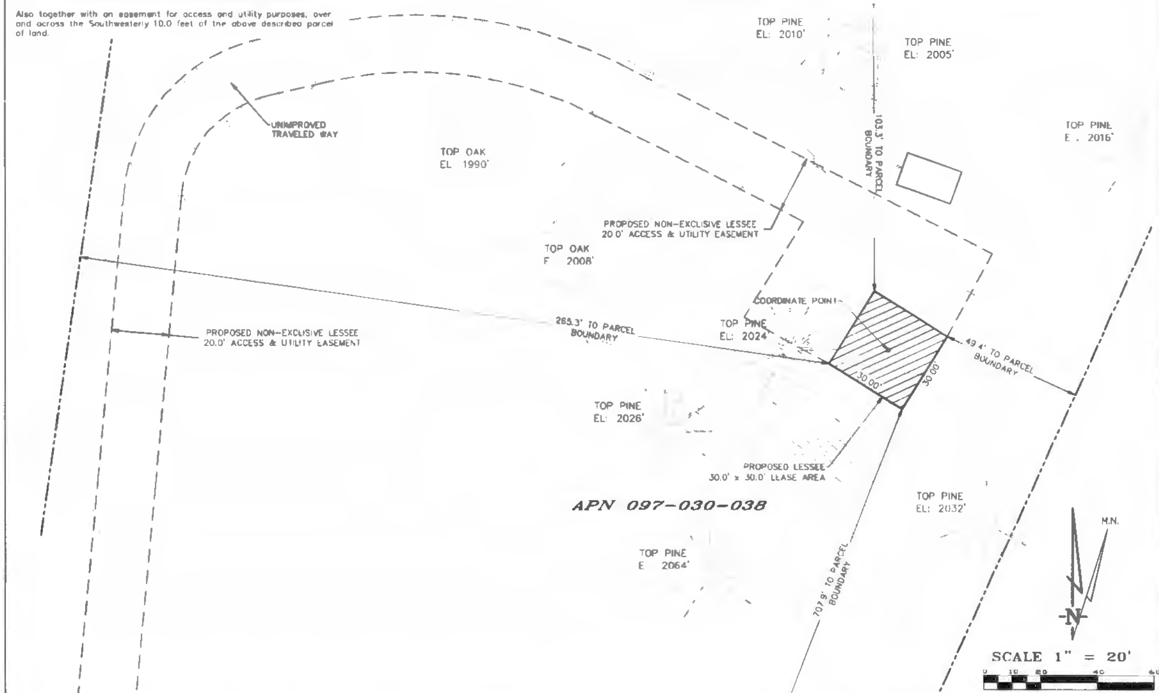


Diamond Springs, CA

VICINITY MAP

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



LEASE AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
NT		
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

verizon

Diamond Springs
961 Pleasand Valley Road
Diamond Springs, CA 95619

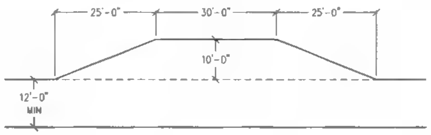
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS		
08-09-23	Preliminary Drawing	DG
11-07-23	Lease Desc Added	DG
01-25-24	rev esmt	DG

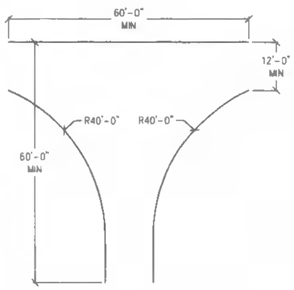
Sheet

C-1

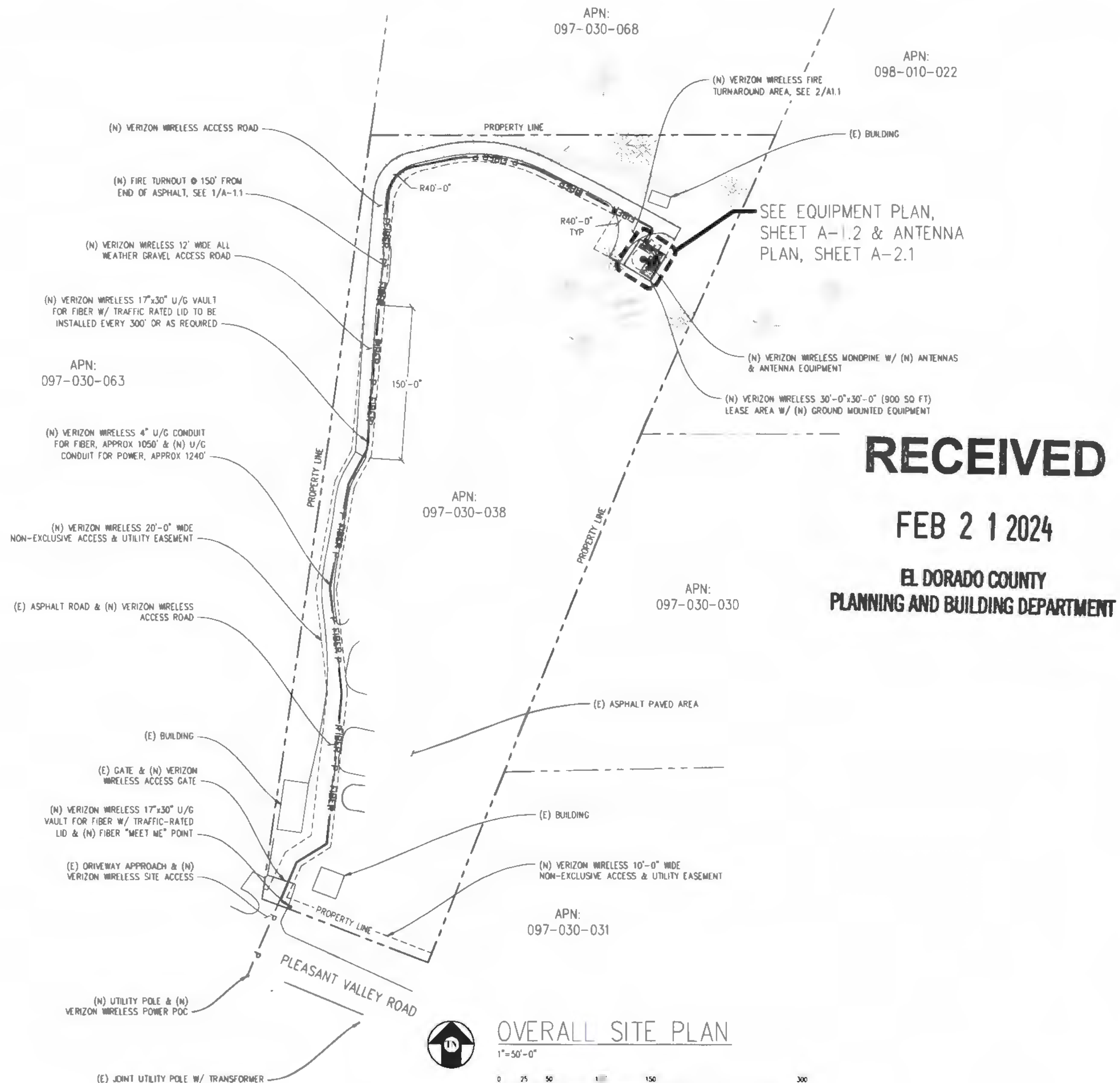
CUP24-0002



1 TURNOUT DETAIL
N.T.S.



2 TURNAROUND DETAIL
N.T.S.



OVERALL SITE PLAN
1"=50'-0"

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EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

ISSUED FOR
DIAMOND SPRINGS
961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR
verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID	5000168151
PROJECT ID	17126026
DRAWN BY:	-
CHECKED BY:	N. GEORGE
APPROVED BY:	-

ISSUE STATUS

3	01/17/24	CLIENT REV	D.H.
2	11/09/23	ZD 100%	A.A.
1	08/21/23	CLIENT REV	A.A.
0	08/16/23	ZD 90%	-

PRELIMINARY: NOT FOR CONSTRUCTION
KEVIN R. SORENSEN
54469

ENGINEER
Streamline Engineering

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1.1

CUP24-0002

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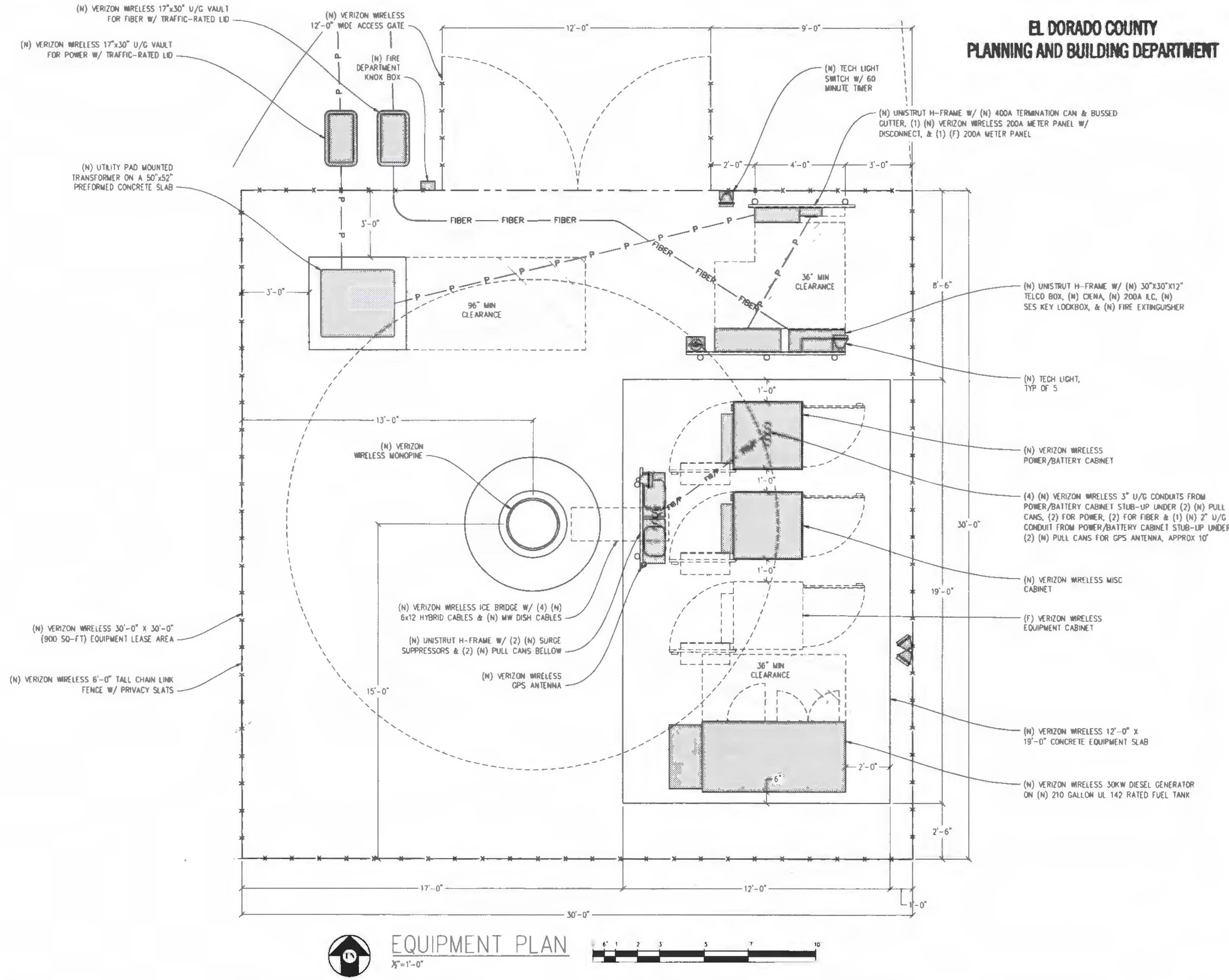
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT



EQUIPMENT PLAN
½"=1'-0"

Issued For:
DIAMOND SPRINGS
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DIAMOND SPRINGS, CA 95619

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Vendor
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1	08/21/23	CLIENT REV	A.A
0	08/16/23	ZD 90%	-

Licensee
PRELIMINARY: NOT FOR CONSTRUCTION
KEVIN R. SORENSEN
54469

ENGINEER
Streamline Engineering

SHEET TITLE:
EQUIPMENT PLAN

SHEET NUMBER:
A-1.2

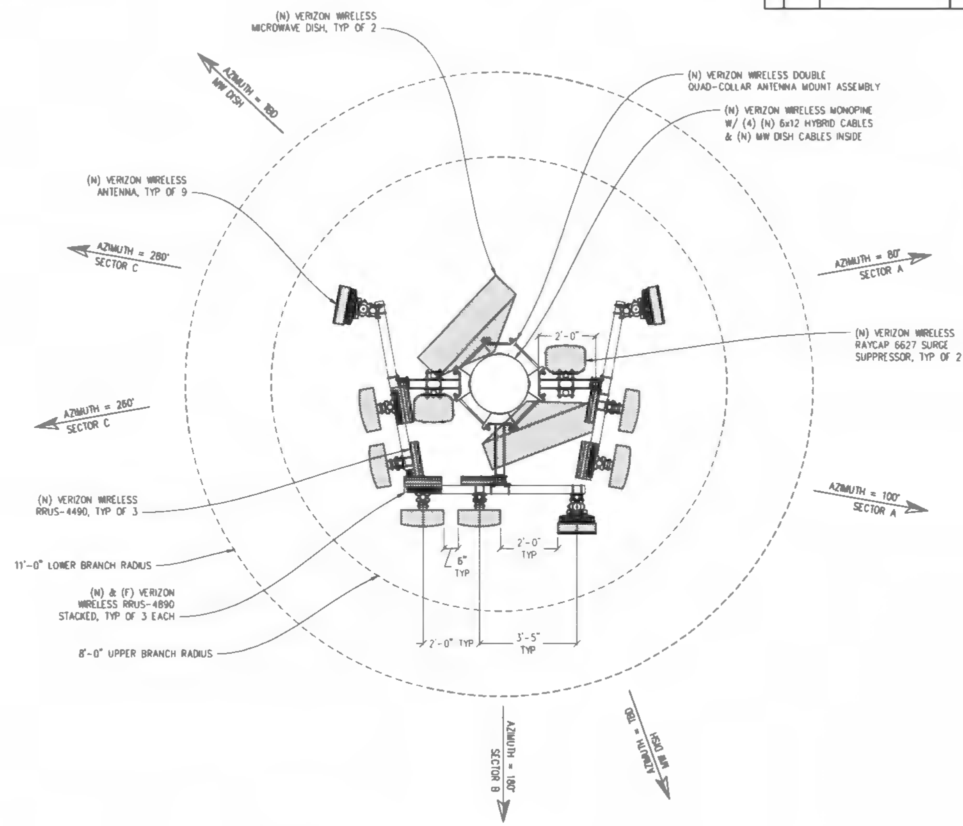
CUP24-0002

NOTE:
1. ALL (N) ANTENNA MOUNTS, & EXPOSED CABLES TO BE PAINTED TO MATCH (N) MONOPINE & BE FULLY WITHIN MONOPINE BRANCH RADIUS
2. PAINT OR 3M FILM WRAP ALL (N) ANTENNAS TO MATCH (N) MONOPINE

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

ANTENNA & CABLE SCHEDULE (PRELIMINARY & SUBJECT TO CHANGE)

SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRU NO'S & MODEL #	# OF HYBRID CABLES	LENGTH OF CABLES	SURGE SUPPRESSOR
ALPHA	A1	ERICSSON AIR6419	80'	±122'-9"	-	(2) 6x12	±125'	(1) 6627
	A2	COMMSCOPE NHH-45C-R2B	100'	±120'-0"	(1) RRUS 4490	SHARED	-	SHARED
	A3	COMMSCOPE NHH-45C-R2B	100'	±120'-0"	(1) RRUS-4890, (1) (F) RRUS 4890	SHARED	-	SHARED
BETA	B1	ERICSSON AIR6419	180'	±122'-9"	-	SHARED	-	SHARED
	B2	COMMSCOPE NHH-45C-R2B	180'	±120'-0"	(1) RRUS-4490	SHARED	-	SHARED
	B3	COMMSCOPE NHH-45C-R2B	180'	±120'-0"	(1) RRUS 4890, (1) (F) RRUS 4890	SHARED	-	SHARED
GAMMA	C1	COMMSCOPE NHH-45C-R2B	260'	±120'-0"	(1) RRUS-4490	SHARED	-	SHARED
	C2	COMMSCOPE NHH-45C-R2B	260'	±120'-0"	(1) RRUS 4890, (1) (F) RRUS 4890	(2) 6x12	±135'	(1) 6627
	C3	ERICSSON AIR6419	280'	±122'-9"	-	SHARED	-	SHARED



ANTENNA PLAN

½"=1'-0"

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EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

Issued For

DIAMOND SPRINGS

961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID	5000168151
PROJECT ID	17126026
DRAWN BY	
CHECKED BY	N. GEORGE
APPROVED BY	

ISSUE STATUS

3	01/17/24	CLIENT REV	D.H.
2	11/09/23	ZD 100%	A.A.
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0	08/16/23	ZD 90%	-

PRELIMINARY: NOT FOR CONSTRUCTION

KEVIN R. SORENSEN
54469

ENGINEER

Streamline Engineering and Design, Inc.

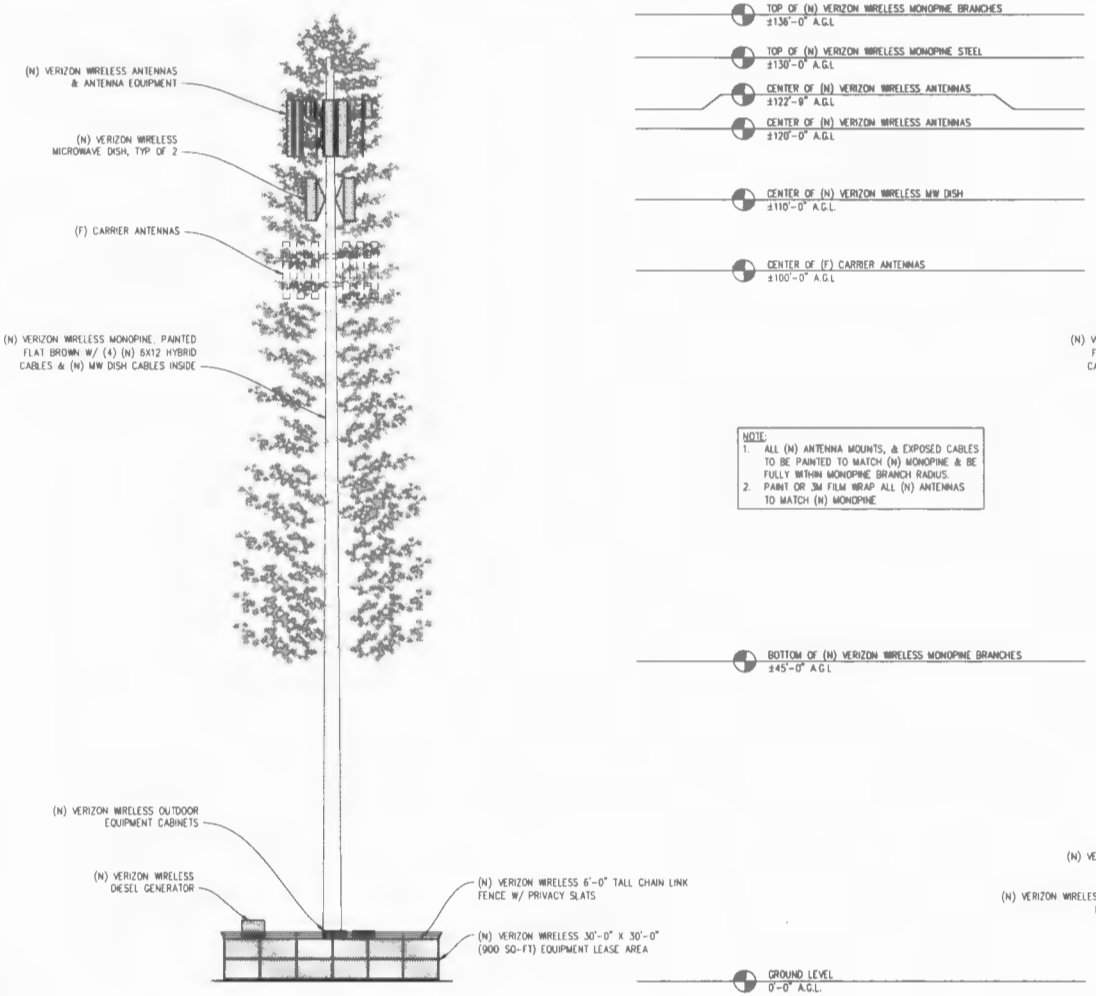
SHEET TITLE:

ANTENNA PLAN

SHEET NUMBER

A-2.1

CUP24-0002



NOTE:
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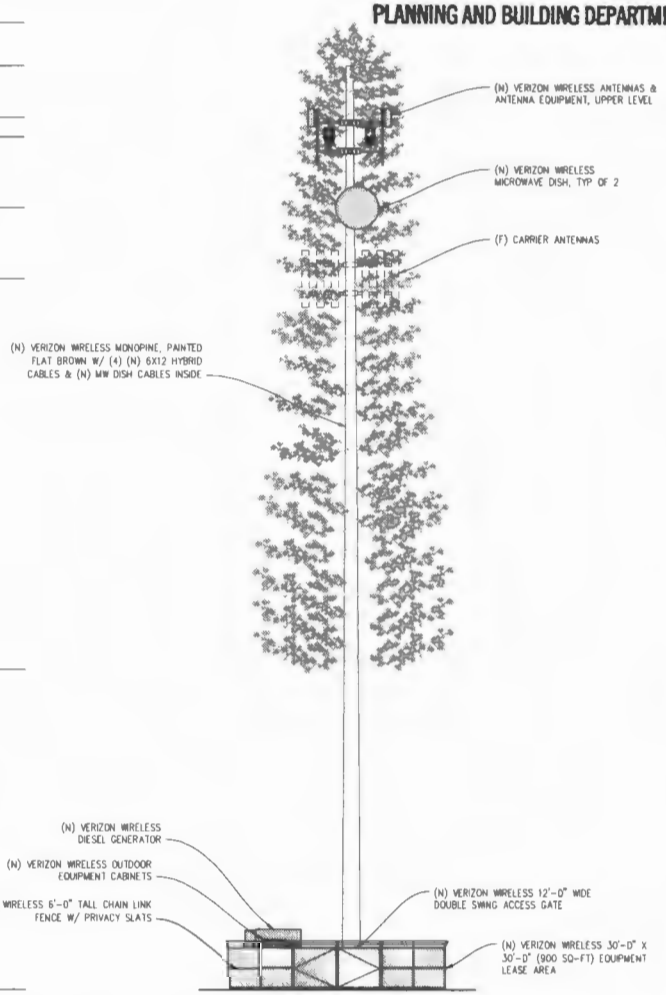

SOUTHEAST ELEVATION

1/8"=1'-0"

0 2 4 8 12 20 28 50

NORTHEAST ELEVATION

1/8"=1'-0"

0 2 4 8 12 20 28 50

Issued for:
DIAMOND SPRINGS

961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR
verizon
2770 SHADELANDS DR. BLDG 11
WALNUT CREEK, CA 94598

Vendor:
COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	500016815
PROJECT ID:	17126026
DRAWN BY:	-
CHECKED BY:	N. GEORGE
APPROVED BY:	-

ISSUE STATUS

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0	08/16/23	ZD 90%	-

License:
PRELIMINARY: NOT FOR CONSTRUCTION
KEVIN R. SORENSEN
54469

ENGINEER
Streamline Engineering
Civil Division Inc.
8440 Sierra College Blvd. Suite E Granite Bay, CA 95746
Contact: Kevin Sorensen Phone: 916-865-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1641

SHEET TITLE:
ELEVATIONS

SHEET NUMBER
A-3.1

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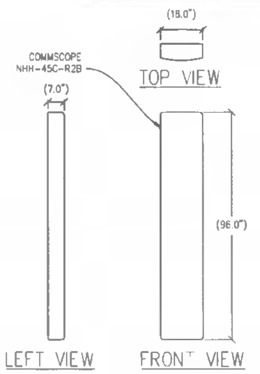
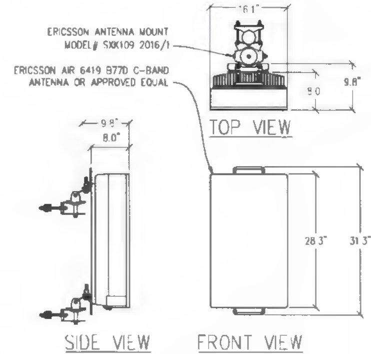
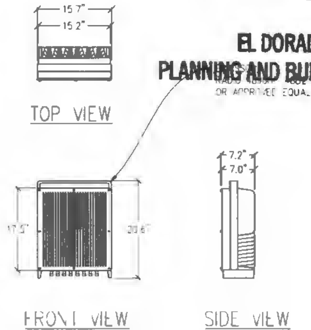
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT



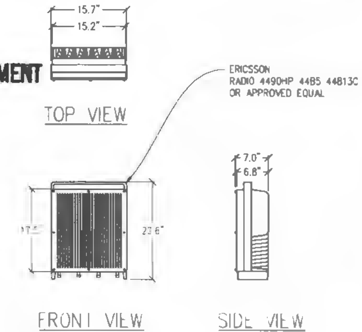
1 ANTENNA DETAIL
½"=1' MAX WEIGHT: 85 LBS



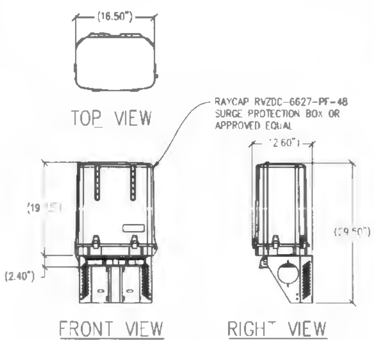
2 ANTENNA DETAIL
1"=1'-0" MAX WEIGHT: 71 LBS



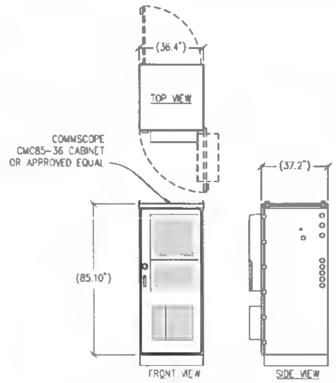
3 RADIO 4890HP DETAIL
1"=1'-0" MAX WEIGHT: 69.5 LBS



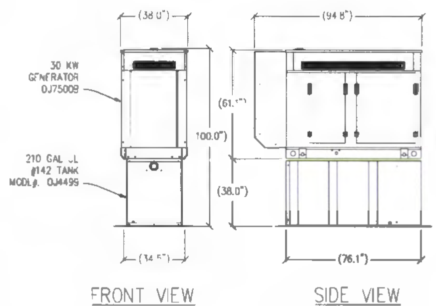
4 RADIO 4490HP DETAIL
1"=1'-0" MAX WEIGHT: 68.4 LBS



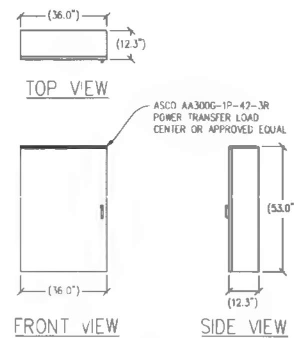
5 SURGE PROTECTION BOX
1"=1'-0" MAX WEIGHT: 32.0 LBS



6 CABINET DETAIL
⅜"=1'-0" MAX WEIGHT: 2352 LBS



7 30KW GENERATOR DETAIL
⅜"=1'-0" MAX WEIGHT: 3,119 LBS



8 ILC CABINET DETAIL
½"=1'-0" MAX WEIGHT: 210 LBS

DIAMOND SPRINGS

961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID	5000168151
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DRAWN BY:	
CHECKED BY:	N. GEORGE
APPROVED BY:	-

ISSUE STATUS

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1	08/21/23	CLIENT REV	A.A.
0	08/16/23	ZD 90%	-

PRELIMINARY:
NOT FOR
CONSTRUCTION

KEVIN R. SORENSEN
S4469

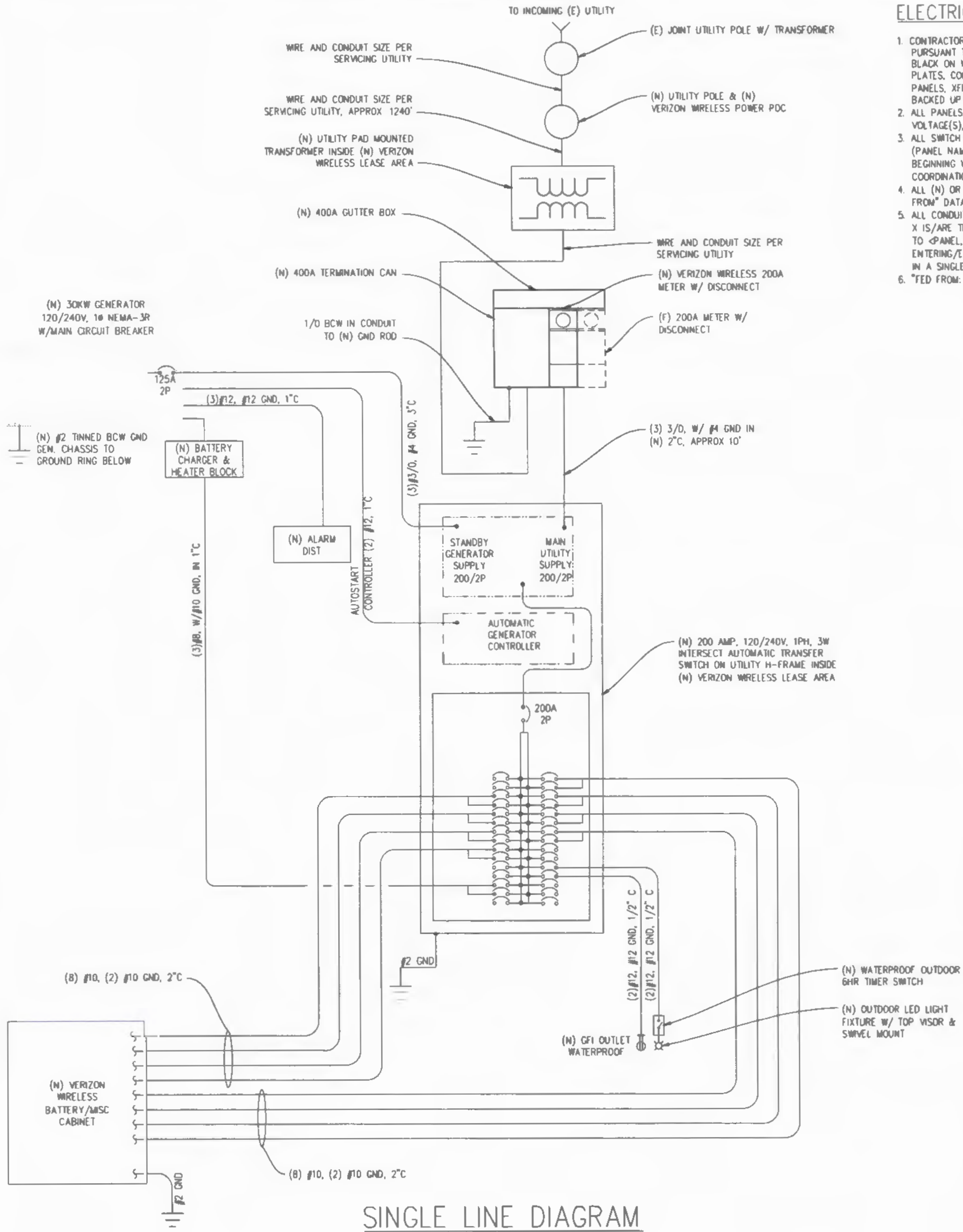
ENGINEER

Streamline Engineering and Design, Inc.

SHEET TITLE:
DETAILS

SHEET NUMBER
A-4.1

CUP24-0002



SINGLE LINE DIAGRAM

ELECTRICAL LABELING REQUIREMENTS

1. CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR's, PULL BOXES, ETC.; PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR
2. ALL PANELS, XFMR's AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR's, AND "FED FROM" DATA.
3. ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH "FED FROM" CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING W/#1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
4. ALL (N) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE "FED FROM" DATA (SWITCH#)
5. ALL CONDUITS EXITING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X'.." WHERE X IS/ARE THE BREAKER#(S). CONDUITS EXITING XFMR'S SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>", E.G. "FEEDER TO PANEL <panel name>. CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) W/"FED FROM..." & "TO PANEL/XFMR/. "DATA.
6. "FED FROM: DATA = <panel name> <brkr#> EG: "PANEL X/1,3,5")

ELECTRIC LEGEND

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

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE 2017 IEC AS WELL AS ALL ADOPTED STANDARDS, 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 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET
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.
11. WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'MTS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'MT, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
12. WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
    A. POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
    B. CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFGR'S DATA FOR THE APPLIANCES SERVED
    C. THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
    D. ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE

NEW PANEL SCHEDULE

NAMEPLATE : PANEL A			SC LEVEL : 65,000				VOLTS: 120V/240V, 1Ø		
LOCATION : OUTSIDE							BUS AMPS: 200A		
MOUNTING : H-FRAME							MAIN CB: 200A		
ØA LOAD VA	ØB LOAD VA	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	LOAD DESCRIPTION	ØA LOAD VA	ØB LOAD VA
		BLANK	–	1	2	30/2	(N) BATTERY/MISC CABINET	1320	
		" "	–	3	4	" "	" "		1320
		" "	–	5	6	30/2	" "	1320	
		" "	–	7	8	" "	" "		1320
1320		(N) BATTERY/MISC CABINET	30/2	9	10	30/2	" "	1320	
	1320	" "	" "	11	12	" "	" "		1320
1320		" "	30/2	13	14	30/2	" "	1320	
	1320	" "	" "	15	16	" "	" "		1320
1320		" "	30/2	17	18	–	BLANK		
	1320	" "	" "	19	20	–	" "		
1320		" "	30/2	21	22	–	" "		
	1320	" "	" "	23	24	–	" "		
1000		BLOCK HEATER	20/1	25	26	–	" "		
	300	BATTERY CHARGER	20/1	27	28	20/1	LIGHT		300
		BLANK	–	29	30	20/1	GFI RECEPTACLE	180	
6280	5680	PHASE TOTALS					PHASE TOTALS	5460	5680
TOTAL VA =	22900	TOTAL AMPS =	95						

Issued For

DIAMOND SPRINGS
961 PLEASANT VALLEY ROAD
DIAMOND SPRINGS, CA 95619

PREPARED FOR
verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor
COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID	5000168151
PROJECT ID	17126026
DRAWN BY:	
CHECKED BY	N. GEORGE
APPROVED BY	

ISSUE STATUS

3	01/17/24	CLIENT REV	D.H.
2	11/09/23	ZD 100%	A.A.
1	08/21/23	CLIENT REV	A.A.
0	08/16/23	ZD 90%	-

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KEVIN R. SORENSEN
54469

ENGINEER
Streamline Engineering

SHEET TITLE:
ELECTRICAL PLAN

SHEET NUMBER:
E-1.1