COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES
860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
752 SOUTH FRANKLIN STREET · FT. BRAGG · CALIFORNIA · 95437

JULIA KROG, DIRECTOR
TELEPHONE: 707-234-6650
FAX: 707-463-5709
FB PHONE: 707-964-5379
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pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

November 20, 2025

Planning – Fort Bragg
Building Inspection -Fort Bragg
Assessor
Farm Advisor
Agriculture Commissioner
Air Quality Management
Mendocino County Farm Bureau
Resource Lands Protection Committee
Caltrans
Department of Forestry/ CalFire
-Land Use
Department of Fish and Wildlife
California Coastal Commission
Cloverdale Rancheria
Cahto Tribe
Potter Valley Tribe
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Round Valley Tribe
Redwood Coast Fire District
Manchester School District

CASE#: AP_2025-0029
DATE FILED: 11/18/2025
OWNER: Diamond K J Property LLC
APPLICANT: Verizon Wireless C/O Complete Wireless Consultants
AGENT: Matt Moore
REQUEST: Administrative Permit to modify an existing telecommunications facility consisting of a 60 foot tall lattice designed tower. The modification includes a 20 foot tall tower extension, wireless antenna and equipment, and installing conduit for fiber from existing box to tower on an existing road. The parcel is bisected by the Coastal Zone Boundary and Inland Zone.
LOCATION: 0.8± miles southeast of the Manchester town center, lying on the east side of State Route 1, 0.5± mile north of intersection of Mountain View Road (CR 510) and State Route 1, at 20001 S. Highway 1, Manchester; (APN: 133-110-27).
SUPERVISORIAL DISTRICT: 5
STAFF PLANNER: Shelby Miller
RESPONSE DUE DATE: December 04, 2025

PROJECT INFORMATION CAN BE FOUND AT:
www.mendocinocounty.org
Select "Government" from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

☐ No comment at this time.

☐ Recommend conditional approval (attached).

☐ Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)

☐ Recommend denial (Attach reasons for recommending denial).

☐ Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).

☐ Other comments (attach as necessary).

_____

_____

_____

_____

REVIEWED BY:

Signature _____ Department _____ Date _____

CASE: AP_2025-0029

OWNER: Diamond K J Property LLC

APPLICANT: Verizon Wireless C/O Complete Wireless Consultants

AGENT: Matt Moore

REQUEST: Administrative Permit to modify an existing telecommunications facility consisting of a 60-foot-tall lattice designed tower. The modification includes a 20-foot-tall tower extension, wireless antenna and equipment, and installing conduit for fiber from existing box to tower on an existing road. The parcel is bisected by the Coastal Zone Boundary and Inland Zone.

LOCATION: 0.8± miles southeast of the Manchester town center, lying on the east side of State Route 1, 0.5± mile north of intersection of Mountain View Road (CR 510) and State Route 1, at 20001 S. Highway 1, Manchester; (APN: 133-110-27).

APN/S: 133-110-27

PARCEL SIZE: 130.04

GENERAL PLAN: RL160:*
ZONING: **RL:160**

EXISTING USES: Wireless Facility

DISTRICT: 5 (Williams)

RELATED CASES:
AP_2022-0038: Modification of a Wireless Facility/ Cell Tower. Approved. 11/21/2022.
AP_2016-0031: Modifications of a Cell Tower and Antenna. Approved. 7/18/2017.
UM_2014-0008: Call Tower Modification. Approved. 3/25/2016.
UR_2014-0008: Cell Tower Renewal. Approved.
U_1-2004: Cell Tower. Expired.

REFERRAL AGENCIES

LOCAL
☒ Agricultural Commissioner
☒ Air Quality Management District
☒ Assessor's Office
☒ Building Division
☒ Farm Advisor
☒ Redwood Coast Fire District
☒ Manchester School District
☒ Planning Division FB
☒ Resource Lands Protection Com.
☒ Mendocino County Farm Bureau

STATE
☒ CALFIRE (Land Use)
☒ California Coastal Commission
☒ California Dept. of Fish & Wildlife
☒ CALTRANS

TRIBAL
☒ Cloverdale Rancheria
☒ Cahto tribe
☒ Potter Valley Tribe
☒ Redwood Valley Rancheria
☒ Sherwood Valley Band of Pomo Indians
☒ Round Valley Tribe

ADDITIONAL INFORMATION: The existing cell tower is outside of the Coastal Zone; however, the conduit installation would be partially within the Coastal Zone.

STAFF PLANNER: SHELBY MILLER **DATE:** 11/20/2025

ENVIRONMENTAL DATA

1. MAC:
GIS
N/A

2. FIRE HAZARD SEVERITY ZONE:
CALFIRE FRAP maps/GIS
MODERATE

3. FIRE RESPONSIBILITY AREA:
CALFIRE FRAP maps/GIS
STATE

4. FARMLAND CLASSIFICATION:
GIS
Grazing Land

5. FLOOD ZONE CLASSIFICATION:
FEMA Flood Insurance Rate Maps (FIRM)
YES

6. COASTAL GROUNDWATER RESOURCE AREA:
Coastal Groundwater Study/GIS
CRITICAL

7. SOIL CLASSIFICATION:
Mendocino County Soils Study Eastern/Western Part
Flumeville Clay loam 5 to 15 percent slopes, Crispin loam 0 to 5 percent slopes

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:
LCP maps, Pygmy Soils Maps; GIS
N/A

9. WILLIAMSON ACT CONTRACT:
GIS/Mendocino County Assessor's Office
NO

10. TIMBER PRODUCTION ZONE:
GIS
NO

11. WETLANDS CLASSIFICATION:
GIS
No

12. EARTHQUAKE FAULT ZONE:
Earthquake Fault Zone Maps; GIS
YES

13. AIRPORT LAND USE PLANNING AREA:
Airport Land Use Plan; GIS
NO

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:
GIS; General Plan 3-11
NO

15. NATURAL DIVERSITY DATABASE:
CA Dept. of Fish & Wildlife Rarefind Database/GIS
YES

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:
GIS; General Plan 3-10
No

17. LANDSLIDE HAZARD:
Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44
N/A

18. WATER EFFICIENT LANDSCAPE REQUIRED:
Policy RM-7; General Plan 4-34
N/A

19. WILD AND SCENIC RIVER:
www.rivers.gov (Eel Only); GIS
N/A

20. SPECIFIC PLAN/SPECIAL PLAN AREA:
Various Adopted Specific Plan Areas; GIS

21. STATE CLEARINGHOUSE REQUIRED:
Policy
N/A

22. OAK WOODLAND AREA:
USDA
N/A

23. HARBOR DISTRICT:
Sec. 20.512

FOR PROJECTS WITHIN THE COASTAL ZONE ONLY

24. LCP LAND USE CLASSIFICATION:
LCP Land Use maps/GIS
N/A, Point Arena

25. LCP LAND CAPABILITIES & NATURAL HAZARDS:
LCP Land Capabilities maps/GIS; 20.500
Very close proximity to San Andreas Fault lines

26. LCP HABITATS & RESOURCES:
LCP Habitat maps/GIS; 20.496
Barren

27. COASTAL COMMISSION APPEALABLE AREA:
Post LCP Certification Permit and Appeal Jurisdiction maps/GIS; 20.544
NO

28. CDP EXCLUSION ZONE:
CDP Exclusion Zone maps/GIS
NO

29. HIGHLY SCENIC AREA:
Highly Scenic & Tree Removal Area Maps/GIS; Secs. 20.504.015, 20.504.020
NO

30. BIOLOGICAL RESOURCES & NATURAL AREAS:
Biological Resources & Natural Area Map; GIS; General Plan 4-9
N/A

31. BLUFFTOP GEOLOGY:
GIS; 20.500.020
No

PLANNING & BUILDING SERVICES

CASE NO:	AP_2025-0029
DATE FILED:	11/18/2025
FEE:	$3,812.00
RECEIPT NO:	PRJ_069150
RECEIVED BY:	Matt Goines

Office Use Only

APPLICATION FORM

APPLICANT:

Name: Verizon Wireless C/O Complete Wireless Consul Phone: (916) 247-3047

Mailing Address: 2009 V Street ATTN: Matt Moore

City: Sacramento State/Zip: CA 95834 Email: MMoore@completewireless.net

PROPERTY OWNER:

Name: US Cellular Phone:

Mailing Address: 8410 West Bryn Mawr Avenue

City: Chicago State/Zip: IL 60631 Email: paul.mason@uscellular.com

AGENT:

Name: Matt Moore Phone: 916-247-3047

Mailing Address: 2009 V Street

City: Sacramento State/Zip: CA/95818 Email: Mmoore@completewireless.net

ASSESSOR'S PARCEL NUMBER/S: 133-110-27

PROPERTY ADDRESS: 20001 State Hwy 1, Manchester, CA 95459

TYPE OF APPLICATION:

- ☒ Administrative Permit
- ☐ Agricultural Preserve: New Contract
- ☐ Agricultural Preserve: Cancellation
- ☐ Agricultural Preserve: Rescind & ReEnter
- ☐ Airport Land Use
- ☐ Development Review
- ☐ Exception
- ☐ Flood Hazard Development Permit
- ☐ General Plan Amendment
- ☐ Land Division – Minor
- ☐ Land Division – Major
- ☐ Land Division – Parcel
- ☐ Land Division – Re-Subdivision
- ☐ Modification of Conditions
- ☐ Reversion to Acreage
- ☐ Rezoning
- ☐ Use Permit – Cottage
- ☐ Use Permit – Minor
- ☐ Use Permit – Major
- ☐ Use Permit – Modification
- ☐ Variance
- ☐ Other

I certify that the information submitted with this application is true and accurate.

	10/29/25	Please see attached LOA	10/29/25
Signature of Applicant/Agent	*Date*	*Signature of Owner*	*Date*

Form Ver. 071421

SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Department of Planning and Building Services and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project please indicate "Not applicable" or "N/A".

THE PROJECT

1. Describe your project. Include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc. If the proposal is for cancellation of a Williamson Act contract, please specify a proposed alternative use for the land.

This is a proposal to install twelve (12) new antennas and the necessary ground on an existing 64' tall wireless facility that is located at the above-referenced address. The antennas will be placed at a centerlines of 76' and 77'-10" meaning that the overall height of the tower will need to be increased by 20'. The necessary ground equipment, consisting of a 30kw diesel generator with a 147-gallon fuel tank and two equipment cabinets, will be placed within the existing wireless compound. Please see the attached EFR Cover Letter for additional details.

2. Structures/Lot Coverage	**NO. OF UNITS**		**SQUARE FOOTAGE**		
	EXISTING	**PROPOSED**	**EXISTING**	**PROPOSED**	**TOTAL**
☐ Single Family ☐ Mobile Home ☐ Duplex ☐ Multifamily ☒ Other: ☐ Other:					1,000 sqft wireless leas area, not to be expanded.
GRAND TOTAL (Equal to gross area of Parcel):					

3. Is the project commercial, industrial, or institutional? If yes, complete item 3. If no, skip to item 4.

Estimated No. of Employees per shift: _____

Estimated No. of shifts per day: _____

Type of loading facilities proposed: _____

4. Will the project be phased? (Work being done over separate periods of time)

■ **NO** ☐ **YES** If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads?

■ **NO** ☐ **YES** If yes, explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?

☐ **NO** ■ **YES** If yes, explain:

A temporary diesel fuel tank with a 500 gallon capacity is also being proposed.

7. How much off-street parking will be provided?

	Number	Size
No. of covered spaces:		
No. of uncovered spaces:		
No. of standard spaces:		
No. of accessible spaces:		
Existing no. of spaces:		
Proposed additional spaces:		
Total:		

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.

■ **NO** ☐ **YES** Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

9. For grading or road construction, complete the following:

Amount of cut: _____ cubic yards

Amount of fill: _____ cubic yards

Max. height of fill slope: _____ feet

Max. height of cut slope: _____ feet

Amount of import/export: _____ cubic yards

Location of borrow or disposal site: _____

10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

☒ **NO** ☐ **YES**

11. Will the proposed development convert land currently or previously used for agriculture to another use?

☒ **NO** ☐ **YES**

12. Will the development provide public or private recreation opportunities?

☒ **NO** ☐ **YES** If yes, explain how:

_____

_____

_____

_____

13. Is the proposed development visible from State Route 1 or other scenic route?

☒ **NO** ☐ **YES**

14. Is the proposed development visible from a park, beach or other recreational area?

☒ **NO** ☐ **YES**

15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking: ☒ NO ☐ YES
Filling: ☐ NO ☐ YES
Dredging: ☐ NO ☐ YES
Structures: ☐ Open Coastal Waters ☐ Wetlands ☐ Estuaries ☐ Lakes

If so, what is the amount of material to be dredged/filled?: _____ cubic yards

Location of dredged material disposal site?: _____

Has a U.S. Army Corps of Engineers permit been applied for? ☐ NO ☐ YES

16. Will there be any exterior lighting?

☒ **NO** ☐ **YES** If yes, describe below and identify the location of all exterior lighting on the plot and building plans.

_____

_____

_____

_____

17. Utilities will be supplied to the site as follows:

Electricity: ☐ Utility Company (service exists to parcel)
☐ Utility Company (requires extension of service to site): _____ feet _____ miles
☒ On Site Generation – Specify:

Gas: ☐ Utility Company/Tank
☐ On Site Generation – Specify:
☒ None

Telephone: ☐ NO ☐ YES

18. What will be the method of sewage disposal?

☐ Community Sewage System (specify supplier):_____
☐ Septic Tank
☐ Other (specify):_____

19. What will be the domestic water source:

☐ Community Water System (specify supplier): _____
☐ Well
☐ Spring
☐ Other (specify): _____

20. Are there any associated projects and/or adjacent properties under your ownership?

☒ **NO** ☐ **YES** If yes, list below (Assessor's Parcel Number, address, etc.)

21. List and describe any other related permits and other public approval required for this project, including those required by other County departments, city, regional, State and Federal agencies:

Building Permit approval will also be required.

22. Describe the location of the site in terms of readily identifiable landmarks: (e.g., mailboxes, mile posts, street intersections, etc.)

23. Are there existing structures on the property? If yes and the proposal is for a subdivision, describe below and identify the use of each structure on the plot plan or tentative map.

☐ **NO** ☒ **YES**

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

☒ **NO** ☐ **YES**

25. What is the maximum height of all structures?

Existing: 64' feet
Proposed: 84' feet

26. What is the gross floor areas of all structures, including covered parking and accessory buildings?

Existing: _____ square feet
Proposed: _____ square feet

27. What is the total lot area within property lines?

Total Lot Area: _____ ■ acres ☐ square feet

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful:

On-site conditions will not be impacted by this proposal.

29. Briefly describe the surrounding properties, including information on plants, animals and any cultural, historic or scenic aspects. Indicate the type of land use (use chart below) and its general intensity. Attach any photographs of the vicinity that you feel would be helpful.

Surrounding properties are all heavily forested an fall within the Timber Production Zone.

30. Indicate the surrounding land uses:

	Vacant	Residential	Agriculture	Commercial	Industrial	Public Facility	Timberland	Other
North:	☐	☐	☐	☐	☐	☐	☐	☐
East:	☐	☐	☐	☐	☐	☐	☐	☐
South:	☐	☐	☐	☐	☐	☐	☐	☐
West:	☐	☐	☐	☐	☐	☐	☐	☐

CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.

2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.



Owner/Authorized Agent — Date: 10/29/25

NOTE: IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

AUTHORIZATION OF AGENT

I hereby authorize Matthew Moore to act as my representative and to bind me in all matters concerning this application.

Please see the attached Letter of Authorization — Owner

10/29/25 — Date

MAIL DIRECTION

To facilitate proper handling of this application, please indicate the names and mailing addresses of individuals to whom you wish correspondence and/or staff reports mailed if different from those identified on Page 1 of the application form.

Name	**Name**	**Name**
Mailing Address	**Mailing Address**	**Mailing Address**

Indemnification And Hold Harmless

ORDINANCE NO. 3780, adopted by the Board of Supervisors on June 4, 1991, requires applicants for discretionary land use approvals, to sign the following Indemnification Agreement. Failure to sign this agreement will result in the application being considered incomplete and withheld from further processing.

Indemnification Agreement

As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County of Mendocino, its agents, officers, attorneys, employees, boards and commissions, as more particularly set forth in Mendocino County Code Section 1.04.120, from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or adoption of the environmental document which accompanies it. The indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the County, its agents, officers, attorneys, employees, boards and commissions.

10/29/25

Date

Cellco Partnership d/b/a Verizon Wireless, c/o Complete Wireless Consulting, Inc.

Applicant

COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING & BUILDING SVCS.

860 North Bush Street • Ukiah, California 95482
120 West Fir Street • Fort Bragg, California 95437

Julia Krog, Director
Phone: 707-234-6650
Fax: 707-463-5709
FB Phone: 707-964-5379
FB Fax: 707-961-2427
pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

Acknowledgement of Deposit/Hourly Fee

By signing below, the applicant acknowledges that the staff at Planning and Building Services has discussed the potential for collection of a deposit fee for the projects listed below (as adopted by the Board of Supervisors Resolution No.'s 11-072, 16-150, 18-122, 19-170, 21-194 and 23-190)

1. Division of Land Project
2. General Plan Project
3. Coastal Project
4. Zoning Project
5. Administrative Project
6. Cannabis Project
7. Private Road Naming

Once an application has been submitted and the processing costs approach 80% of the application fee, additional staff processing time will be billed at ***$98.00/hour***. Staff will notify the applicant/owner that a deposit equal to 50% of the initial filing fee is required for further processing, and more than one deposit may be required depending on the complexity of the project and the staff time necessary to complete application processing.

I acknowledge that I was advised of the deposit fee for continued processing after the initial application fee has been expended.

Matthew Moore Digitally signed by Matthew Moore Date: 2025.10.29 18:17:02 -07'00' 10/29/25

Applicant Signature Date

OFFICE USE ONLY:

AP_2025-0029

Project or Permit Number

COMPLETE
Wireless Consulting, Inc.

September October 29, 2025

Via Online Submittal

Mendocino County Planning & Building Services
860 N Bush St
Ukiah, CA 95482-3919
Attn: Julia Krog

RE: Application for an Administrative Use Permit; 20001 State Hwy 1; APN:125-010-26; Verizon Site Name: Stornetta Temp

Dear Ms. Krog,

This package is intended as a formal submittal for an Administrative Use Permit/6409 Eligible Facilities Request to collocate new wireless equipment on the existing US Cellular wireless telecommunications facility located at the above-referenced location. The items listed below are enclosed, per the County's submittal requirements. Please note that an application for a Building Permit has been filed in conjunction with this application.

1. Project Application Form
2. 6409 EFR Cover Letter
3. Project Description Questionnaire
4. Site Plans
5. Indemnification agreement
6. Acknowledgement of Deposit/Hourly Fee
7. Certification and Site View Authorization/Mail Direction form
8. Letter of Authorization
9. RF Analysis
10. Coverage Maps
11. Redacted Ground Lease
12. Acoustic Analysis

Please do not hesitate to contact me directly with any questions or concerns regarding this application. I can be reached at mmoore@completewireless.net or by phone at 916-247-3047 should any issues arise.

Sincerely,

Matthew Moore

Verizon Wireless 60-Day Eligible Facility Request
Modification of Existing Wireless
Tower not in the Right-of-Way

Request Date: October 29, 2025

Jurisdiction: Mendocino County

Departments: Planning and Building Department

Site Address: 20001 Hwy 1

Verizon Wireless Contact: Matt Moore, Complete Wireless Consulting, Inc., mmoore@completewireless.net, (916) 247-3047

This document serves as Verizon Wireless's eligible facilities request to modify an existing wireless tower at the above-referenced site address. This eligible facilities request must be approved administratively under Section 6409 of the federal Spectrum Act and Federal Communications Commission ("FCC") rules. Review by the County is limited to determining whether the proposed modification qualifies as an eligible facilities request that does not substantially change the physical dimensions of the wireless tower. All permits necessary to commence construction must be approved within 60 days of the request date set forth above, subject to tolling for incompleteness.

For this request, Verizon Wireless attaches the following applications for all the permits required by the County to commence construction of the modification:

1. Planning Administrative Use Permit
2. Building permit

Verizon Wireless hereby requests that the County immediately provide a quote of application fees and payment options, which Verizon Wireless will pay promptly. Any delay by the County in quoting application fees or providing payment options will not toll today's commencement of the 60-day period.

Verizon Wireless's proposed facility will provide wireless communications services, including personal wireless services, to its customers in Mendocino County, as well as fixed wireless services for communication with other Verizon Wireless facilities, using frequencies licensed from the FCC. Antenna and equipment specifications, effective radiated power (ERP), and FCC compliance are described in the accompanying radio frequency compliance report by EBI consulting.

Project Description

Please note that this is a proposal to install ground and tower equipment on an existing facility that is located at the above-referenced address. The existing compound contains a

64’ lattice tower with existing wireless antennas, an equipment shelter, one backup generator, and two propane tanks.

To provide permanent service, Verizon Wireless proposes install 16 new antennas on the existing lattice tower at centerlines of both 77’ and 80’ above ground level, while also placing two equipment cabinets and a 30kw standby diesel generator with a 147-gallon fuel tank within the existing compound. Please note that this proposal will require that the height of the existing tower be extended by 20’.

FCC Rules for Eligible Facilities Requests

The Spectrum Act states that “a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”[1] An “eligible facilities request” is defined to include any collocation, removal, or replacement of existing equipment.[2]

The FCC adopted rules providing legally binding guidance on key terms of the Spectrum Act, notably defining “substantial change” with the six thresholds described below.[3] The FCC requires that qualifying eligible facilities requests be approved within 60 days, subject to tolling for incompleteness.[4] The 60-day period begins when an applicant takes the first procedural step required by a local government, and submits written documentation.[5] The only submittal documents a local government can require are those relevant to determining if a proposed modification qualifies as an eligible facilities request.[6] If a local government does not render a decision within the 60-day period, an eligible facilities request can be deemed granted by operation of law.[7]

The Proposed Modification Does Not Constitute a “Substantial Change”

Below are the FCC’s six “substantial change” thresholds for a wireless tower not in the right-of-way,[8] each followed by an explanation that the proposed modification does not exceed that threshold.

1) It increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater.

    This proposal will not increase the height of the existing tower by more than 20’. Please see the A-3.1 sheet of the attached site plans for additional details.

2) It involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater.

    Verizon’s proposed antennas will be installed on mounts attached directly to the lattice tower and will not extend more than 20’ from

the structure. Please see the A-3.1 sheet of the attached site plans for additional details.

3) It involves the installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four.

Verizon is proposing to add two equipment cabinets and an emergency generator with a fuel tank. This does not exceed four cabinets, even if the generator is counted as a cabinet, and therefore complies with this requirement. Please see the A-1.1 sheet of the attached site plans for additional details.

4) It entails any excavation or deployment of transmission equipment outside of the current site by more than 30 feet in any direction. The site boundary from which 30 feet is measured excludes any access or utility easements currently related to the site. The "site" is as defined at 47 C.F.R. § 1.6100(b)(6).

Verizon's proposed new equipment will be placed within US Cellular's existing 1000sqft lease area and therefore complies with this requirement. Please see the A-1.3 sheet of the attached site plans for additional details.

5) Would defeat the concealment elements of the eligible support structure.

The existing facility consists of an 64' tall lattice tower, and Verizon is not seeking to change this design. Please see the A-3.1 sheet of the attached site plans for additional details.

6) Does not comply with conditions associated with the siting approval of the construction or modification of the existing facility, unless the non-compliance is due only to a change in height, width, etc., that does not exceed the first four thresholds.

This proposal complies with all pre-existing conditions as required for an Eligible Facilities Request.

Verizon Wireless is providing a radio frequency exposure compliance report prepared by EBI Consulting that confirms that the temporary facility, as modified, will continue to comply with the FCC's radio frequency exposure limits.

In sum, the modification clearly qualifies as an "eligible facilities request" under the Spectrum Act and FCC rules, because it does not exceed any of the thresholds such that it would "substantially change" the physical dimensions of the existing wireless tower. Failure to process this eligible facilities request and approve all necessary permits within 60 days may result in the request being deemed granted by operation of law.

[1] 47 U.S.C. § 1455(a)(1).
[2] 47 U.S.C. § 1455(a)(2).
[3] *See* Report and Order FCC 14-153, 29 FCC Rcd. 12865 (FCC October 17, 2014); *see also* Report and Order FCC 20-153, 85 FR 78005 (FCC October 27, 2020).
[4] *See* 47 C.F.R. § 1.6100(c)(2), (3).
[5] Declaratory Ruling FCC 20-75, 35 FCC Rcd 5977, ¶ 16 (FCC June 9, 2020).
[6] *See* 47 C.F.R. § 1.6100(c)(1).
[7] *See* 47 C.F.R. § 1.6100(c)(4).
[8] *See* 47 C.F.R. § 1.6100(b)(7).

verizon

Stornetta (Temp Cow)
20001 State Highway 1, Manchester, CA
Photosims Produced on 10-17-2025



AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Shot Point Map

Existing



Proposed



view from Crispin Road looking southeast at site

verizon

Stornetta
20001 State Highway 1, Manchester, CA
Photosims Produced on 10-17-2025

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing



Proposed



view from Crispin Road looking southwest at site

verizon

Stornetta
20001 State Highway 1, Manchester, CA
Photosims Produced on 10-17-2025

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing



Proposed



view from State Highway 1 looking southeast at site

verizon

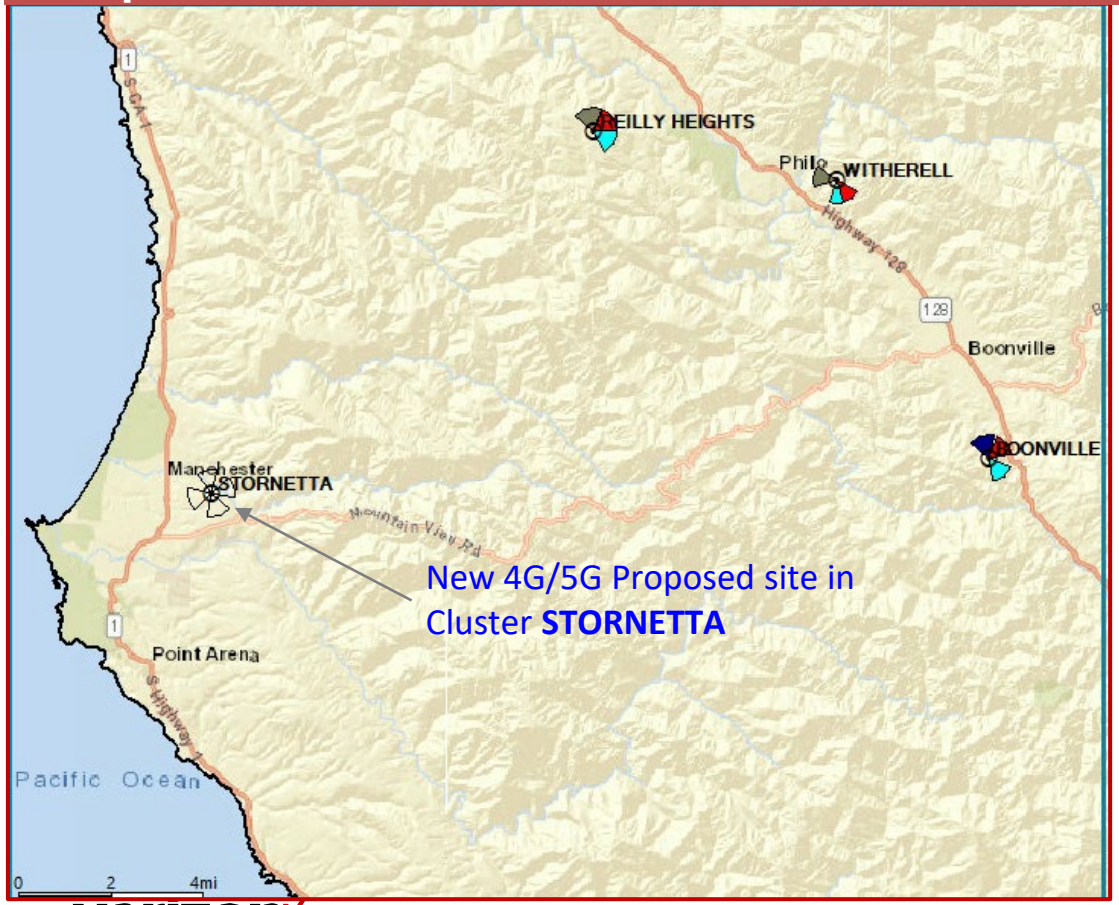
Stornetta
20001 State Highway 1, Manchester, CA
Photosims Produced on 10-17-2025

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Verizon Site: STORNETTA
Site Justification

verizon

Map Overview: EXISTING + PLANNED VZW SITES in STORNETTA in CA



Proposed Site (In-Active)

Existing (On-Air)

verizon

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Coverage Objective : Proposed STORNETTA in CA

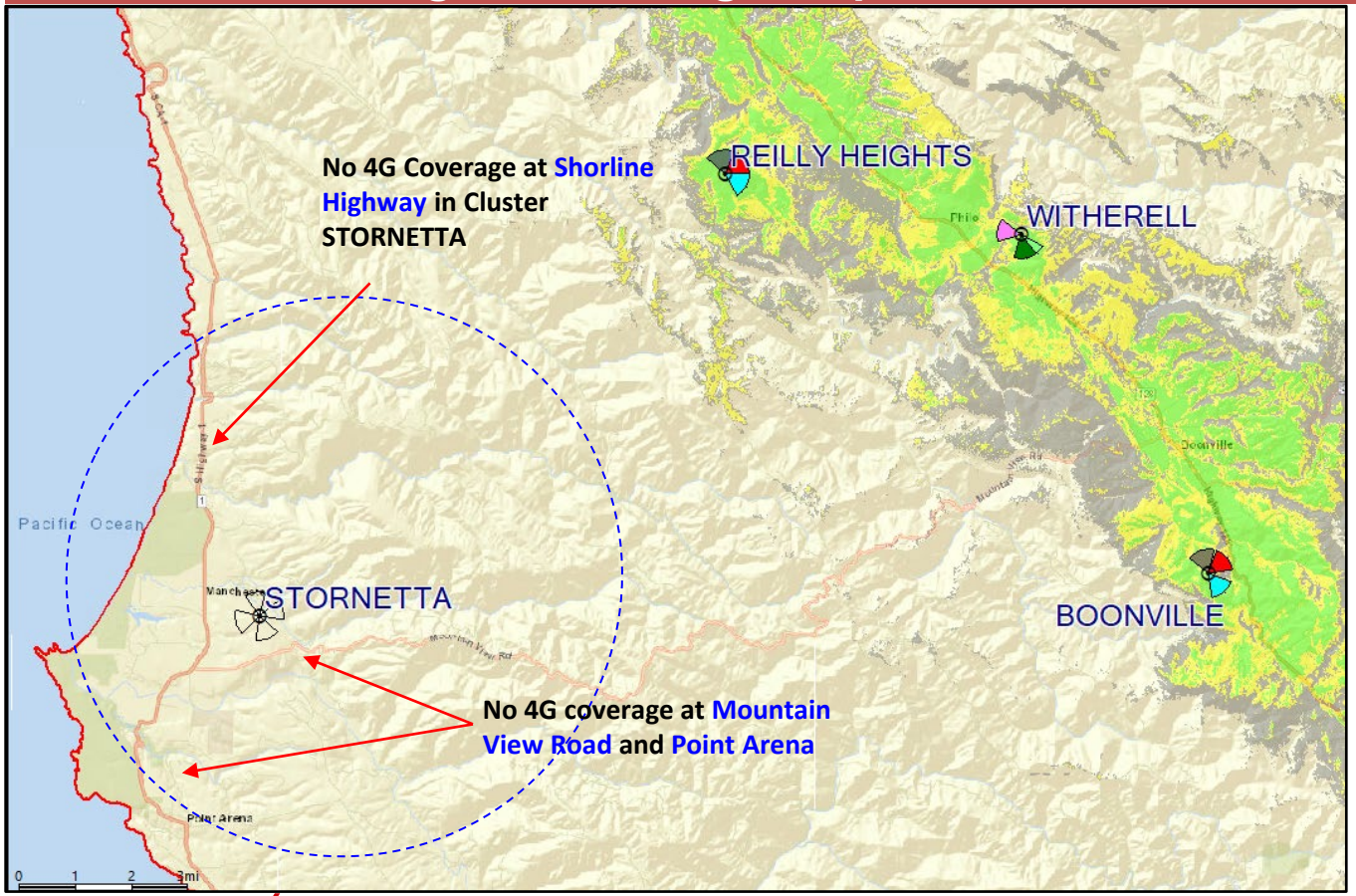
Verizon Wireless has Identified a **Coverage deficiency** in its Long-Term Evolution(**LTE)** Fifth Generation(5G) networks in **STORNETTA located at 20001 S Highway 1,Manchester,CA 95469**. This facility is designed to replicate roaming services provided by US Cellular to Verizon subscribers in this area. Existing roaming services will soon not be available to VZW users when a new carrier provider acquires the facility to take ownership.

Currently, Verizon's network has no existing wireless services in Shoreline Highway, Point Arena & Mountain View Road. The New facility will provide a dominant Radio Frequency(RF) Signal which will enhance end users Network Performance and Quality of Services(QoS) effectively throughout the area which also includes Emergency Services. Additionally, C-Band carrier add will also be deployed to augment 5G footprint to our users.

Consequently, Verizon subscribers can anticipate an improvement in Services Availability, Reliability and Speed accuracy. By upgrading its network infrastructure, Verizon Wireless aims to provide Robust and Reliable wireless communication services, aligning with the high demand for Mobile Broadband Connectivity in STORNETTA**.**

verizon

Existing 4G Coverage map: STORNETTA CLUSTER



Proposed Site (In-Active)

Existing (On-Air)

>= -85dBm (INDOOR)

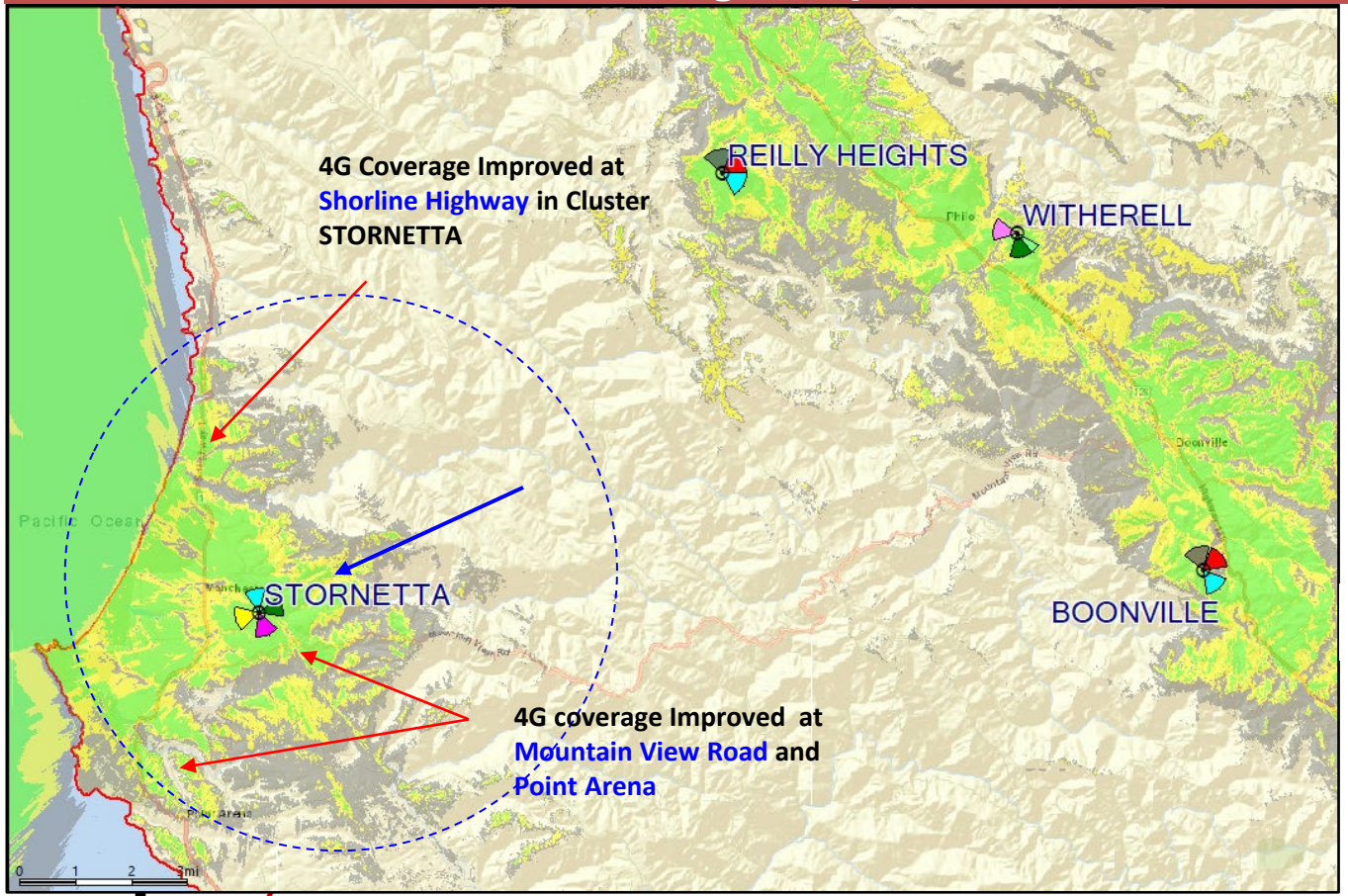
>= -95dBm (IN-VEHICLE)

>= -105dBm (OUTDOOR)

verizon

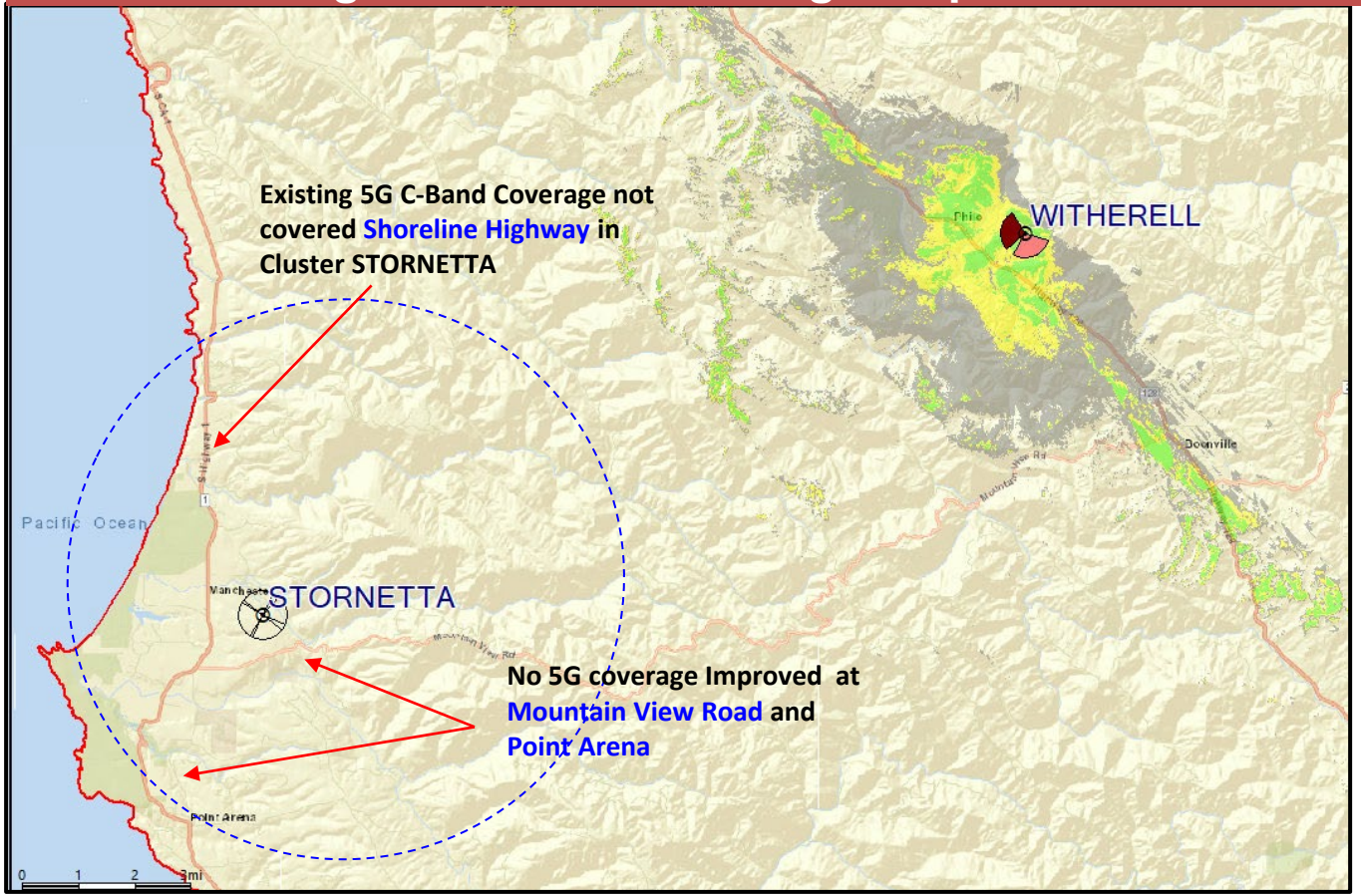
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FUTURE 4G Coverage map: STORNETTA CLUSTER



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Existing 5G C-Band Coverage map: STORNETTA CLUSTER



Proposed Site (In-Active)

Existing (On-Air)

>= -85dBm (INDOOR)

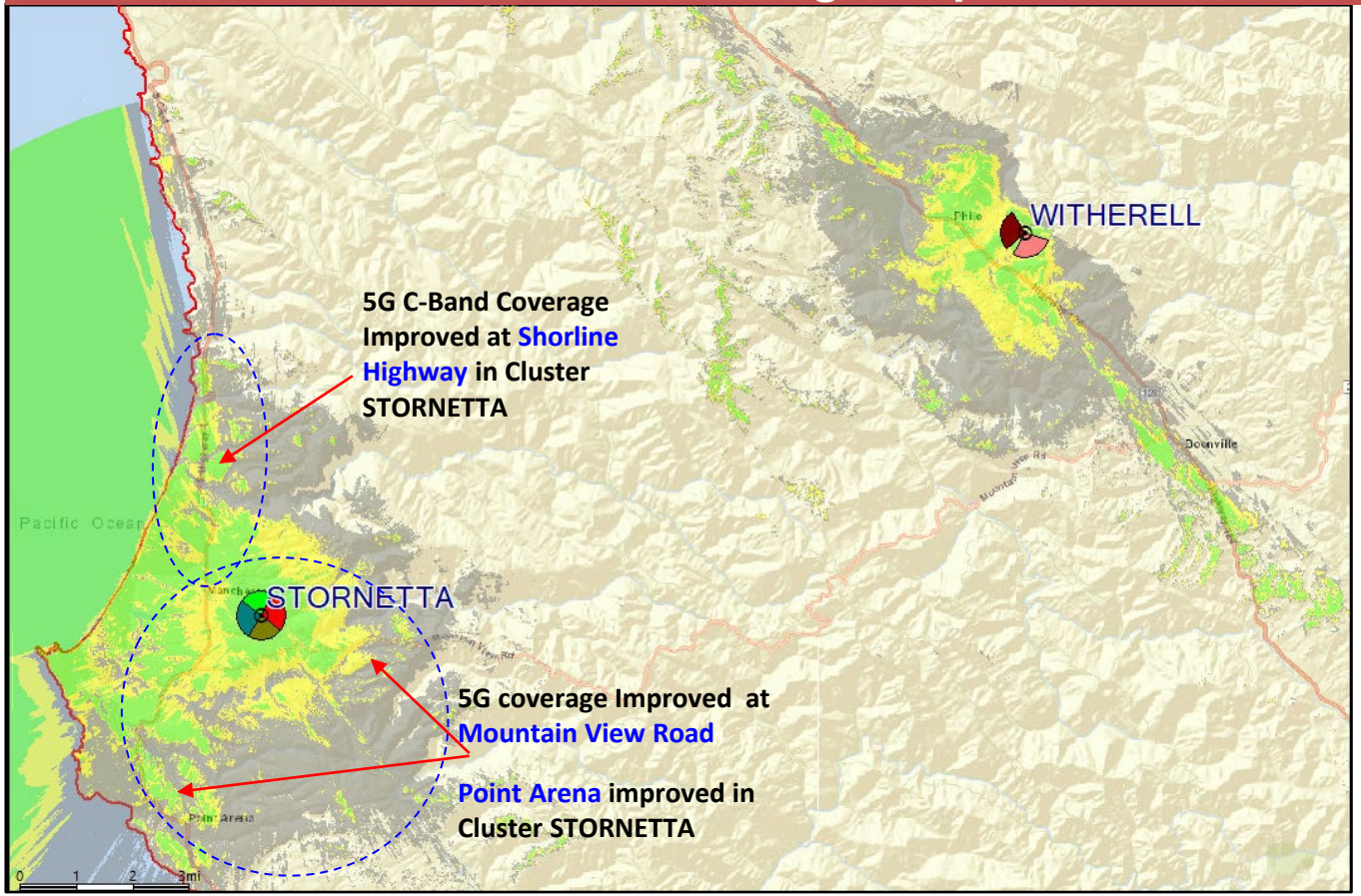
>= -95dBm (IN-VEHICLE)

>= -105dBm (OUTDOOR)

verizon

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FUTURE 5G C-Band Coverage map: STORNETTA CLUSTER



verizon

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LETTER OF AUTHORIZATION
APPLICATION FOR ZONING/LAND USE/BUILDING PERMIT

July 31, 2025

Mendocino County
501 Low Gap Road
Ukiah, CA 94582

UScellular Site:	Manchester/568366
Tenant Site:	Stornetta/5000968099
Site Address:	20001 ST Hwy 1 Manchester, CA 95459
Site Latitude:	38.96472
Site Longitude:	-123.66833

To Whom It May Concern,

California Rural Service Area #1, Inc. ("UScellular") as the owner of the tower and having a leasehold interest in the property located at the above address is subleasing tower and ground space to Cellco Partnership ("Verizon"). UScellular hereby authorizes Verizon and/or its agent Complete Wireless to file/submit all necessary building, permitting, zoning, and/or land use applications that may be required by the governing jurisdiction in order for Verizon to make certain tower equipment changes and/or modifications to their existing installation at the above-described real property.

Sincerely,

Paul Mason, Sr. Mgr Leasing Operations
UScellular Real Estate Colocations

Environmental Noise Assessment

Stornetta Verizon Cellular Facility

Manchester (Mendocino County), California

BAC Job #2025-114

Prepared For:

Complete Wireless Consulting, Inc.

Attn: Alliyah Muhammad
Project Coordinator
2009 V Street
Sacramento, CA 95818

Prepared By:

Bollard Acoustical Consultants, Inc.

Dario Gotchet
Principal Consultant
Board Elected Member, INCE-USA (ID#20964)

October 21, 2025

BOLLARD
Acoustical Consultants

Introduction

The Stornetta Verizon Wireless Unmanned Telecommunications Facility Project (project) proposes the installation of cellular equipment within a lease area located at 20001 California State Highway 1 in Manchester (Mendocino County), California (APN: 133-110-27). The proposed outdoor equipment cabinet cooling systems 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 August 22, 2025.

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 outdoor equipment cabinets and emergency generator.

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

Mendocino County General Plan

Chapter 3 (Development Element) of the Mendocino County General Plan establishes noise level standards for various land uses affected by non-transportation (stationary) noise sources, such as those proposed by the project. The noise level standards contained in the Development Element are presented below in Table 1.

Table 1
Exterior Noise Level Standards

Land Use Type	Time Period	Median Noise Level, L_{50} (dBA)[1]
Single-Family Homes and Duplexes	Daytime: 7 a.m. to 10 p.m.	60
	Nighttime: 10 p.m. to 7 a.m.	50
Multiple Residential 3 or More Units Per Building (Triplex +)	Daytime: 7 a.m. to 10 p.m.	60
	Nighttime: 10 p.m. to 7 a.m.	55

[1] Level not to be exceeded more than 30 minutes in any hour (i.e., median noise level descriptor, L50).

Source: Mendocino County General Plan, Development Element, Table 3-J (Revised 2020)

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 generator. The evaluation of potential noise impacts associated with the operation of each noise source is evaluated separately as follows:



Legend

Proposed Verizon Cellular Equipment Lease Area (Approximate)

Existing Noise-Sensitive Receptor (Residence)

N

Scale (feet)

0 200 400

Stornetta Verizon Cellular Facility

Mendocino County, California

Proposed Cellular Facility Lease Area
& Nearest Off-Site Noise-Sensitive Receptor

Figure 1

BOLLARD Acoustical Consultants

Equipment Cabinet Noise Sources and Reference Noise Levels

The project proposes the installation of two (2) equipment cabinets within the equipment lease area shown in Figure 1. Based on a review of the project site plans, the cabinets assumed for the project are as follows: one (1) Commscope CMC-85-36 power/battery cabinet and one (1) miscellaneous cabinet cooled by a McLean Model T-20 air conditioner. The cabinet reference noise levels 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)
Commscope CMC-85-36	1	60	5
McLean T-20	1	66	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. According to the project site plans, the generator proposed for installation at this site is a Kohler Model 30REOZK. According to the manufacturer sound level data sheets, provided as Appendix D, the reference sound pressure levels for proposed generator are 79 dB at 23 feet when equipped with a weather enclosure, and 65 dB at 23 feet when equipped with a sound enclosure. For this analysis, it is conservatively assumed that the project generator will be equipped with the manufacturer's weather enclosure, resulting in a reference sound pressure level of 79 dB at 23 feet.

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, during daytime hours only, 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 generator (i.e., during an emergency) 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 Equipment Noise Exposure at Nearest Noise-Sensitive Receptor

The nearest existing noise-sensitive receptor (off project parcel) has been identified as a single-family residence located on APN: 133-110-03, as shown in Figure 1. Assuming standard spherical spreading loss (-6 dB per doubling of distance from a stationary noise source), project-equipment noise exposure at the nearest existing noise-sensitive receptor (residence) was calculated and the results of those calculations are presented in Table 3. Satisfaction with the County's noise level criteria at the closest noise-sensitive uses would ensure compliance and noise-sensitive uses located farther away.

Table 3
Predicted Equipment Noise Levels at Nearest Noise-Sensitive Receptor

Receptor[1]	Distance from Lease Area (ft)[2]	Predicted Equipment Noise Level, L_{50} (dB)	
		Cabinets	Generator
133-110-03 – Residence	1,500	<20	43

[1] Receptor location is shown in Figure 1.
[2] Distance scaled from equipment lease area to residence outdoor area (backyard) using the provided site plans and the Mendocino County GIS Viewer.

Source: BAC 2025

Because the proposed outdoor equipment cabinets could potentially be in operation continuously during nighttime hours, operation of the equipment cabinets would be subject to the Mendocino County General Plan exterior *nighttime* noise level standard of 50 dB L_{50} (Table 1). As indicated in Table 3, the predicted outdoor equipment cabinet noise level of less than 20 dB L_{50} at the closest existing noise-sensitive receptor (residence) would satisfy the applicable General Plan 50 dB L_{50} exterior nighttime noise level limit by a wide margin. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of 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 Mendocino County General Plan exterior *daytime* noise level standard of 60 dB L_{50}. As shown in Table 3, the predicted generator noise level of 43 dB L_{50} at the closest existing noise-sensitive receptor (residence) would satisfy the applicable General Plan 60 dB L_{50} exterior daytime noise level standard by a wide margin. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of the project.

Conclusion

Based on the equipment noise level data and analyses presented above, project-related equipment noise exposure is expected to satisfy the applicable Mendocino County General Plan noise level criteria at the closest existing noise-sensitive land uses. As a result, no further consideration of project equipment noise mitigation measures would be warranted for this project.

This concludes our environmental noise assessment for the proposed Stornetta Verizon Cellular Facility in Mendocino County, California. Please contact BAC at (530) 537-2328 or dariog@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.

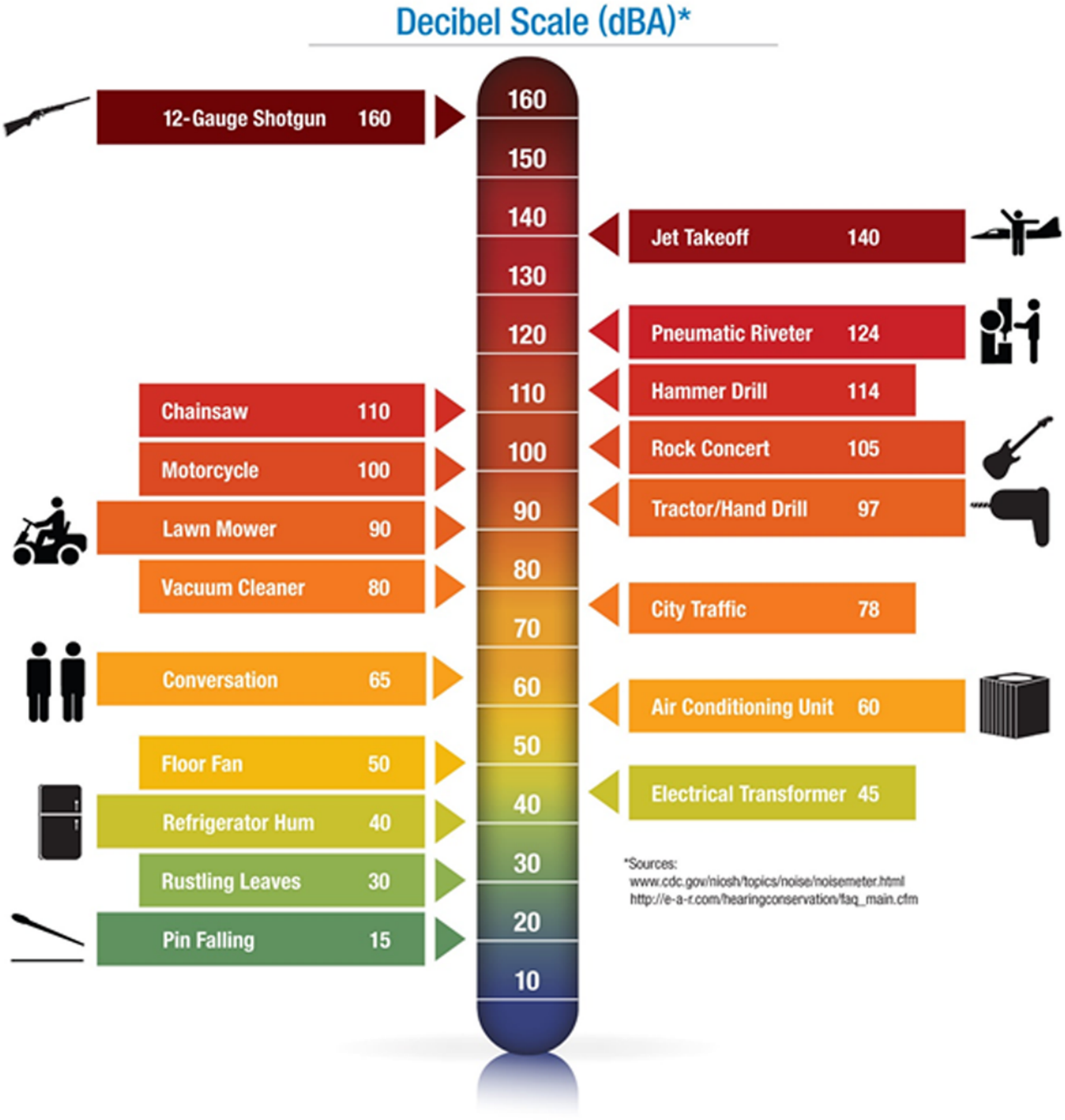
Peak Noise The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the "Maximum" level, which is the highest RMS level.

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



760250956 | CMC-85-36C



CMC-85, Equipment and Battery Cabinet NiCd, 3-String, 4 kW Air Conditioner, DC

The cabinet is designed to combine wireless telecom power equipment and NiCad batteries into one cabinet. Equipment ranges from DC power system, Fiber slack tray, cell site router and other servers equipped by customer. This cabinet provide mechanical and environmental protection for the equipment inside. Cooling of active equipment is achieved by DC rated 4100W Air Conditioner.

- Excellent Thermal Performance to be compatible with both Heat Exchanger andAir Conditioner.
- Provide enough space for the Power system and other network servers.
- Provide option for security/access control via Puck Lock system.
- Provide the flexible access for the cable entrance.
- Provide the flexible heater Solution for the cold ambient application.
- Provide the flexible configurations to give best in class maximum equipmentrack mounting space (Up to 35 total RU)
- Platform products to share many parts including plinth, solar shield, and hybridcable storage units.
- Excellent cable management system.

Product Classification

Regional Availability	Latin America | North America
Portfolio	CommScope®
Product Type	Macro cell site enclosure
Product Series	CMC

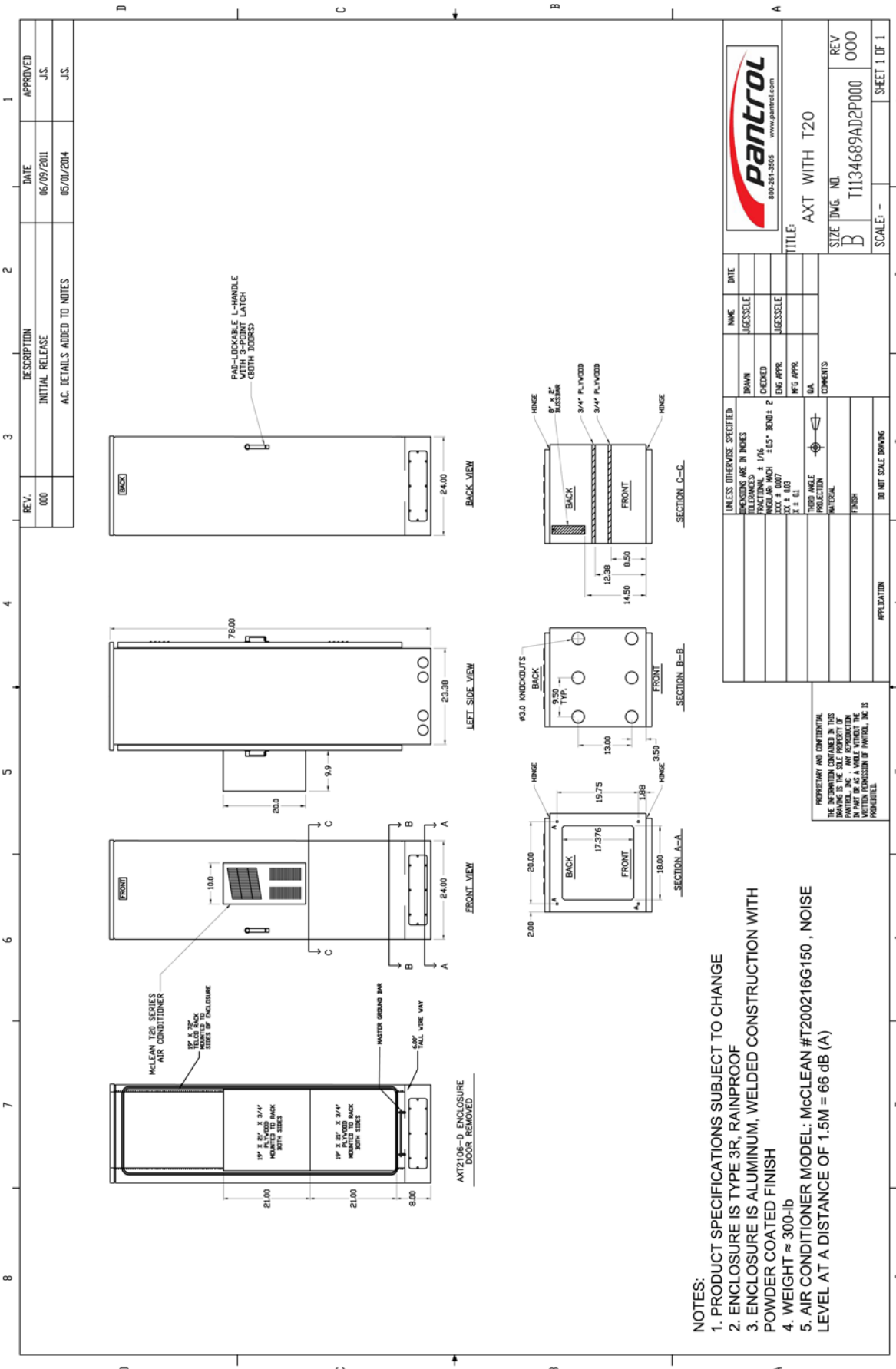
General Specifications

Access	Bottom: Power compartment | Rear Wall: Hybrid Cables | Side Wall: Power or other cables compartment
Alarm Type	Door open (both front and side doors) | HVAC alarms (including high temperature, failure) | Overheat | S2 module, 20P or standard and user defined alarms | Thermal probe
Batteries Supported	3 strings of Nicad batteries from Multiple OEM
Battery Storage	2 battery shelves for holding up to 3 Nicad battery strings
Cabinet Type	Baseband cabinet | Battery back-up cabinet | Transmission cabinet
Capacity	500W Heater built in Air Conditioner
Color	Light Gray (RAL 7035) | Others available at additional cost
Cooling	DC Rated 4100W Air Conditioner Or 420W/k Thermosiphon unit for equipment compartment
Door Security	Quarter turn lock, puck lock system for rear door | Swing handle, puck lock system for front door
Mounting	Mounts directly to steel dunnage with supplied ½" hardware | Mounts to concrete pad with customer supplied anchors | Optional 6" plinth
Noise Emission, maximum	60 dBA

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COMMSCOPE®

Appendix C-2


REV.
DESCRIPTION
DATE
APPROVED
000
INITIAL RELEASE
06/09/2011
J.S.
A.C. DETAILS ADDED TO NOTES
05/01/2014
J.S.
PAD-LOCKABLE L-HANDLE WITH 3-POINT LATCH (BOTH DOORS)
BACK
BACK VIEW
LEFT SIDE VIEW
FRONT
FRONT VIEW
McLEAN T20 SERIES AIR CONDITIONER
19" X 72" TELCO BACK MOUNTED TO SIDES OF ENCLOSURE
MASTER GROUND BAR
6.69" TALL VENT WAY
19" X 21" X 3/4" PLYWOOD MOUNTED TO BACK BOTH SIDES
AXT2106-D ENCLOSURE DOOR REMOVED
SECTION C-C
SECTION B-B
SECTION A-A
HINGE
8" X 2" BUSSBAR
3/4" PLYWOOD
Ø3.0 KNOCKOUTS
9.50 TYP.
17.376
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16
ANGULAR: MACH ± 0.5° BEND ± 2°
XXX ± 0.007
XX ± 0.03
X ± 0.1
THIRD ANGLE PROJECTION
MATERIAL
FINISH
APPLICATION
DRAWN
CHECKED
ENG. APPR.
MFG APPR.
Q.A.
COMMENTS:
NAME
DATE
LGESSELE
LGESSELE
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www.pantrol.com
TITLE:
AXT WITH T20
SIZE
B
DWG. NO.
T1134689AD2P000
REV
000
SCALE: -
SHEET 1 OF 1
NOTES:
1. PRODUCT SPECIFICATIONS SUBJECT TO CHANGE
2. ENCLOSURE IS TYPE 3R, RAINPROOF
3. ENCLOSURE IS ALUMINUM, WELDED CONSTRUCTION WITH POWDER COATED FINISH
4. WEIGHT ≈ 300-lb
5. AIR CONDITIONER MODEL: McCLEAN #T200216G150 , NOISE LEVEL AT A DISTANCE OF 1.5M = 66 dB (A)

Appendix D-1
Generator Sound Level Data

Weather Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
15REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	585 (1290)	not available	0 (0)	77
301 (80)	48/53			1649 (64.9)	793 (1749)		432 (17)	
465 (123)	72/82			1852 (72.9)	851 (1876)		635 (25)	
15REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	932 (2055)	not available	356 (14)	77
476 (126)	72/84			1700 (66.9)	996 (2196)		483 (19)	
638 (168)	96/112			1827 (71.9)	1064 (2345)		610 (24)	
20REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	621 (1370)	not available	0 (0)	79
301 (80)	24/38			1649 (64.9)	829 (1829)		432 (17)	
465 (123)	48/58			1852 (72.9)	887 (1956)		635 (25)	
622 (164)	72/78			2030 (79.9)	936 (2065)		813 (32)	
20REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	968 (2135)	not available	356 (14)	79
476 (126)	48/60			1700 (66.9)	1032 (2276)		483 (19)	
638 (168)	72/80			1827 (71.9)	1100 (2425)		610 (24)	
838 (221)	96/105			1979 (77.9)	1181 (2605)		762 (30)	
30REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	680 (1500)	not available	0 (0)	79
301 (80)	24/30			1759 (69.3)	888 (1959)		432 (17)	
622 (164)	48/63			2140 (84.3)	995 (2195)		813 (32)	
791 (209)	72/80	2070 (81.5)		2241 (88.3)	1042 (2298)		914 (36)	
30REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1027 (2265)	not available	356 (14)	79
638 (168)	48/64			1827 (71.9)	1159 (2555)		610 (24)	
838 (221)	72/85			1979 (77.9)	1240 (2735)		762 (30)	
1056 (279)	96/107			2241 (88.3)	1323 (2919)		914 (36)	
40REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1048 (2310)	not available	0 (0)	79
505 (133)	24/36			1838 (72.4)	1328 (2928)		483 (19)	
868 (229)	48/62			2142 (84.4)	1427 (3146)		787 (31)	
1043 (275)	72/74			2244 (88.4)	1464 (3228)		889 (35)	
40REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/38	2896 (114.0)	1070 (42.1)	1787 (70.4)	1514 (3337)	not available	432 (17)	79
898 (237)	48/64			2015 (79.4)	1647 (3631)		660 (26)	
1057 (279)	72/75			2117 (83.4)	1706 (3762)		762 (30)	
1520 (401)	96/108			2269 (89.4)	1825 (4024)		914 (36)	
50REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1063 (2344)	not available	0 (0)	79
505 (133)	24/29			1838 (72.4)	1343 (2962)		483 (19)	
868 (229)	48/50			2142 (84.4)	1442 (3180)		787 (31)	
1527 (403)	72/88	2896 (114.0)		2269 (89.4)	1585 (3496)		914 (36)	
50REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/31	2896 (114.0)	1070 (42.1)	1787 (70.4)	1529 (3371)	not available	432 (17)	79
898 (237)	48/52			2015 (79.4)	1662 (3665)		660 (26)	
1520 (401)	72/87			2269 (89.4)	1840 (4058)		914 (36)	
2028 (535)	96/116	4020 (158.3)			2041 (4500)			

Appendix D-2
Generator Sound Level Data

Weather Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
60REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1102 (2430)	not available	0 (0)	80
505 (133)	24/25			1838 (72.4)	1382 (3048)		483 (19)	
1043 (275)	48/51			2244 (88.4)	1518 (3348)		889 (35)	
1527 (403)	72/75	2896 (114.0)		2269 (89.4)	1624 (3582)		914 (36)	
60REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/26	2896 (114.0)	1070 (42.1)	1787 (70.4)	1568 (3457)	not available	432 (17)	80
1057 (279)	48/52			2117 (83.4)	1733 (3882)		762 (30)	
1520 (401)	72/74			2269 (89.4)	1852 (4144)		914 (36)	
2028 (535)	96/99	4020 (158.3)			2053 (4586)			

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) do not include I-beam option.

‡ Width dimension shown includes rubber door stops.

§ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Sound Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
15REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	594 (1310)	530 (1168)	0 (0)	64
301 (80)	48/53			1649 (64.9)	802 (1769)	738 (1627)	432 (17)	
465 (123)	72/82			1852 (72.9)	860 (1896)	796 (1754)	635 (25)	
15REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	941 (2075)	877 (1933)	356 (14)	64
476 (126)	72/84			1700 (66.9)	1005 (2216)	941 (2074)	483 (19)	
638 (168)	96/112			1827 (71.9)	1073 (2365)	1009 (2223)	610 (24)	
20REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	630 (1390)	566 (1248)	0 (0)	65
301 (80)	24/38			1649 (64.9)	838 (1849)	774 (1707)	432 (17)	
465 (123)	48/58			1852 (72.9)	896 (1976)	832 (1834)	635 (25)	
622 (164)	72/78			2030 (79.9)	945 (2085)	881 (1943)	813 (32)	
20REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	977 (2155)	913 (2013)	356 (14)	65
476 (126)	48/60			1700 (66.9)	1041 (2296)	977 (2154)	483 (19)	
638 (168)	72/80			1827 (71.9)	1109 (2445)	1045 (2303)	610 (24)	
838 (221)	96/105			1979 (77.9)	1190 (2625)	1126 (2483)	762 (30)	
30REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	689 (1520)	624 (1378)	0 (0)	65
301 (80)	24/30			1759 (69.3)	897 (1979)	832 (1837)	432 (17)	
622 (164)	48/63			2140 (84.3)	1004 (2215)	939 (2073)	813 (32)	
791 (209)	72/80	2070 (81.5)		2241 (88.3)	1051 (2318)	986 (2176)	914 (36)	
30REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1036 (2285)	971 (2143)	356 (14)	65
638 (168)	48/64			1827 (71.9)	1168 (2575)	1103 (2433)	610 (24)	
838 (221)	72/85			1979 (77.9)	1249 (2755)	1184 (2613)	762 (30)	
1056 (279)	96/107			2241 (88.3)	1332 (2939)	1267 (2797)	914 (36)	
40REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1059 (2335)	957 (2110)	0 (0)	64
505 (133)	24/36			1838 (72.4)	1339 (2953)	1237 (2728)	483 (19)	
868 (229)	48/62			2142 (84.4)	1438 (3171)	1336 (2946)	787 (31)	
1043 (275)	72/74			2244 (89.4)	1475 (3253)	1373 (3028)	889 (35)	

GROUND LEASE

This Lease is made and entered into the 16th day of August 1995, by and between:
BARBARA JEAN GARIBALDI AND ROBERT JOHN GARIBALDI
20001 S. Hwy 1
Manchester, Ca. 95459
(707) 882-2852

(hereinafter, the "Lessor") and **CALIFORNIA RSA #9, INC.**, a California corporation *doing business as United States Cellular Mobile Telephone Network*, Attention: Real Estate, 8410 West Bryn Mawr Avenue, Suite 700, Chicago, Illinois 60631 ("Lessee").

In consideration of the mutual promises, conditions, and other good and valuable consideration of the parties hereto, it is covenanted and agreed as follows:

1. Demise of Leasehold Parcel. Lessor hereby lets and demises unto Lessee, and Lessee hereby receives and accepts from Lessor, the following described Leasehold Parcel:
A 100' by 100' portion of Section 30, Township 13 North, Range 16 West, Mendicino, California.

2. Grant of Easement Parcels. Lessor hereby grants to Lessee an easement for utilities and access to and from the leaselhold parcel 20' wide, approximately 5,500 feet in length, following the existing roadway, or as otherwise relocated by Lessor, with no cost to Lessee. Lessee will have the right to install, repair, and maintain the access road and utilities, including the following rights:

(a) The right to clear vegetation, cut timber, and move earthen materials upon the Easement Parcels;

(b) the right to improve an access road within the Access Easement Parcel;

(c) the right to place utility lines and related infrastructure underground within the Utility Easement Parcel;

(d) the right to enter and temporarily rest upon Lessor's adjacent lands for the purposes of installing, repairing, replacing, and removing the leasehold improvements (the "Improvements") and any other personal property of Lessee upon the Leasehold Parcel and improving the Easement Parcels, including the right to bring in and use all necessary tools and machinery; and

(e) the right of pedestrian and vehicular ingress and egress to and from the Leasehold Parcel at any time over and upon the Access Easement Parcel. The Leasehold Parcel, Easement Parcels, and Easement Rights are collectively referred to herein as the "Premises".

This easement will terminate when the lease terminates.

Lessee will not use the easement in such a manner as to create erosion or otherwise physically harm Lessor's remaining property.

3. Survey / Site Plan. Lessee may, at Lessee's expense, cause a survey, site plan, and/or legal description of the Premises to be prepared, to further delineate and identify the real estate underlying the Premises.

4. Use of the Premises. Lessee shall be entitled to use the Premises to construct, operate, and maintain thereon a communications antenna tower (not including aviation hazard lights unless regulation changes require them--in which event Lessor will have the right to terminate this lease upon six months written notice unless the lights can be shielded to Lessor's reasonable satisfaction), an access road, one or more equipment buildings, and a security fence, together with all necessary lines, anchors, connections, devices, and equipment for the transmission, reception, encryption, and translation of voice and data signals by means of radio frequency energy and landline carriage. Construction of Improvements shall be performed at Lessee's sole expense, in a good and workmanlike manner, free from liens, and in accordance with all applicable laws. Lessee shall ensure that any liens occasioned by Lessee's work are promptly satisfied by payment or extinguished through judicial process.

5. Term of Lease. This Lease shall commence on the first day of October 1, 1995, and shall expire five years thereafter on September 30, 2000.

6. Option to Renew. Lessee shall have the option to renew this Lease for five additional terms of five years each, upon a continuation of all the same provisions hereof, by giving written notice to Lessor of Lessee's exercise of this option at least sixty (60) days before the expiration of the term then present at the time of such notice.

7. Option to Terminate. Lessee shall have the unilateral right to terminate this Lease at any time by giving written notice to Lessor of Lessee's exercise of this option and paying Lessor the amount of [redacted] as liquidated damages.

8. Base Rent. Lessee shall pay Base Rent to Lessor in the amount of [redacted], which shall be due on the first day of October, each calendar year. The first payment of rent shall be prorated among 365 days , and abated as to the number of days which have elapsed prior to Lessee's taking possession of the Premises by commencing work to construct the Improvements. As additional consideration for this Lease, Lessee shall, at Lessee's sole expense, provide to Lessor with one (1) "transportable" type cellular telephone (also called a "bag" phone or "tote" phone), which upon delivery shall become the Lessor's property without the necessity for any separately documented bill of sale.

[redacted]

10. Possession of Premises . Lessee shall not be entitled to take possession of the Premises and commence work to construct the Improvements until Lessee makes the first payment of rent. Lessee shall, however, be permitted to enter upon the Premises to cause engineering studies to be made with respect thereto, including surveys, soil tests, radio wave propagation and field strength tests, and such other analyses and studies of the Premises as Lessee determines to be necessary or desirable without being deemed to have taken possession.

11. Utilities. Lessee shall be responsible for all costs of providing utility services to the Premises. Lessee agrees that the commercial power line which Lessee causes to be installed shall have such sufficient loading capacity to allow a future hookup for, and simultaneously deliver residential electric service to, Lessor's proposed nearby dwellings and barns. Lessee will cooperate with Lessor to assure such hookups can be made. Lessor and Lessee shall each independently be responsible for all charges resulting from their respective consumption of utility service.

12. Taxes. Lessee shall pay all real and personal property taxes levied against the Leasehold Parcel and the Improvements.

Lessor agrees to join in an application requesting the appropriate taxing authority to perform a tax parcel division and create a separate tax number for the Leasehold Parcel, if such a division is available. If such a division is not available and real estate taxes must continue to be paid on Lessor's undivided land in Lessor's own name, then Lessee shall contribute Lessee's proportionate share of such taxes, and Lessor shall deliver evidence satisfactory to Lessee of payment of such taxes at least ten days before they would otherwise become delinquent. If Lessor fails to provide such evidence of payment, Lessee may, at Lessee's option, pay any unpaid taxes then due. Lessor shall immediately reimburse Lessee for the amount of Lessor's taxes paid by Lessee or, at Lessee's option, Lessee may offset the amount of Lessor's taxes paid by Lessee against any amounts due or to become due to Lessor under this Lease.

13. Repairs. Lessee shall be responsible for all repairs of the Improvements, and may at its own expense alter or modify the Improvements to suit its needs consistent with the intended use of the Premises.

14. Indemnification. Lessee shall defend, indemnify, and hold harmless Lessor from and against any loss, damage, or injury resulting from Lessee's use of the Premises or Lessee's presence upon Lessor's lands; provided, however, that Lessee's obligation to indemnify shall be reduced commensurately with the extent of Lessor's own negligence, willful misconduct or self-injury.

15. Insurance. At all times during the term of this Lease, Lessee shall maintain in full force and effect,, at its sole expense, commercial general liability insurance with limits of not less than [redacted] covering Lessee's work and operations upon Lessor's lands, as well as workers' compensation and employer's liability insurance in accordance with the requirement of California law. Lessee shall deliver to Lessor a current certificate of insurance evidencing said coverage and naming Lessor as an additional insured.

16. Monetary Default. Lessee shall be in default of this Lease if Lessee fails to make a payment of rent when due and such failure continues for fifteen (15) days after Lessor notifies Lessee in writing of such failure.

17. Opportunity to Cure Non-Monetary Defaults. If Lessor or Lessee fails to comply with any non-monetary provision of this Lease which the other party claims to be a default hereof, the party making such claim shall serve written notice of such default upon the defaulting party, whereupon a grace period of 30 days shall commence to run during which the defaulting party shall undertake and diligently pursue a cure of the default.

Such grace period shall automatically be extended for an additional 30 days, provided the defaulting party makes a good faith showing that efforts toward a cure are continuing.

18. Transferability of Lessee's Interest. Lessee shall be entitled to transfer Lessee's interest under this Lease, in whole but not in part, and to delegate all of Lessee's obligations hereunder, without the necessity of obtaining Lessor's consent, in connection with the transfer of Lessee's FCC radio station authorization, and to ensure that the named holder of Lessee's interest hereunder may read consistently with the named holder of such radio station authorization. Any other assignment of this Lease by Lessee shall require Lessor's prior written consent, which consent shall not unreasonably be withheld.

19. Subleasing. Lessee shall not sublet the Premises or any portion thereof, or permit the Premises to be occupied by multiple simultaneous users, without first obtaining Lessor's written consent, which consent shall not unreasonably be withheld. Lessor's demand to share in rents actually received or collected by Lessee pursuant to any such subleases shall not be deemed an unreasonable withholding of consent or restraint on alienation.

20. Execution of Other Instruments. Lessor agrees to execute, acknowledge, and deliver to Lessee other instruments respecting the Premises, such as a Memorandum of Lease in recordable form, a Landlord's Consent to Lessee's giving a leasehold mortgage, and such other instruments as Lessee or Lessee's lender may reasonably request from time to time, and to request and direct any mortgagee of the underlying land to execute similar lienholder's consents, letters, or memoranda.

21. Removal of Improvements. The Improvements are agreed to be Lessee's personal property and shall never be considered fixtures to the real estate. Lessee shall at all times be authorized to remove the Improvements from the Premises. Within three (3) months following the expiration or earlier termination of this Lease, Lessee shall, if requested by Lessor and at Lessee's expense, remove any above-ground Improvements from the Premises. If Lessor does not notify Lessee that Lessee must remove such Improvements, then Lessee has the option of either removing or abandoning such Improvements, and in any event Lessee shall be entitled to abandon all footings, foundations, and other below-ground Improvements in place. Within six (6) months of Lessee's occupancy of the leased premises Lessee will post a bond, or make other financial arrangements reasonably acceptable to Lessor, to assure the cost or removing such improvements are paid with no cost to Lessor.

22. Conditions Precedent. This Lease and Lessee's obligations hereunder, including the obligations to pay rent or liquidated damages, are expressly conditioned upon and subject to the following:

a. Lessee must receive all necessary local, state, and federal governmental approvals relating to Lessee's intended use of the Premises;

b. Lessee's technical reports must establish to Lessee's exclusive satisfaction that the Premises are capable of being suitably engineered to accomplish Lessee's intended use of the Premises; and

c. Lessee's title insurer must determine that Lessor owns good and clear marketable title to the land underlying the Premises, and that such title is free from encumbrances and restrictions which would interfere with Lessee's intended use of the Premises or would impair Lessee's ability to pledge the leasehold estate as collateral to secure debt financing.

23. Abatement of Rent Pending Conditions. Lessee shall have no obligation to pay rent until all the Conditions Precedent have been satisfied or waived, and rent which would otherwise be due for the intervening time pending satisfaction of the Conditions Precedent is hereby excused and forgiven.

24. Condition Subsequent. Lessor's obligations under this Lease shall expire on March 1, 1996, unless by that date and no later Lessee begins paying rent. Upon such expiration without the first rental payment being made by Lessee, this Lease shall be null and void, and neither Lessor nor Lessee shall have any further obligations hereunder.

25. Quiet Enjoyment. Lessor covenants that Lessee shall have quiet and peaceable possession of the Premises throughout the Lease term as the same may be extended, and that Lessor will not intentionally disturb Lessee's enjoyment thereof as long as Lessee is not in default under this Lease.

26. Environmental Warranty. Lessor hereby represents and warrants to Lessee that Lessor has never generated, stored, handled, or disposed of any hazardous waste or hazardous substance upon the Leasehold Parcel, and that Lessor has no knowledge of such uses historically having been made of the Leasehold Parcel or such substances historically having been introduced thereupon.

27. Attorney's Fees. In any action on or arising out of this Lease at law or in equity, the prevailing party shall be

entitled to recover reasonable costs and expenses, including reasonable attorney's fees.

28. Subordination. Lessee agrees to subordinate this Lease to any mortgage or trust deed which many hereafter be placed on the Premises, provided such mortgagee or trustee thereunder shall ensure to Lessee the right to possession of the Premises and other rights granted to Lessee herein so long as Lessee is not in default beyond any applicable grace or cure period, such assurance to be in form reasonably satisfactory to Lessee. Further, Lessor agrees to promptly have any mortgagee or trustee which has a mortgage or trust deed currently placed on the Premises execute a non-disturbance agreement in form reasonably satisfactory to Lessee.

29. Binding Effect. All of the covenants, conditions, and provisions of this Lease shall run with the land, inuring to the benefit of, and binding upon, the parties hereto and their respective successors in interest.

30. Entire Agreement. This Lease constitutes the entire agreement between the parties and supersedes any prior understandings or oral or written agreements between the parties respecting the within subject matter.

31. Modifications. This Lease may not be modified, except in writing signed by the party against whom such modification is sought to be enforced.

IN WITNESS WHEREOF, the parties hereto bind themselves to this Ground Lease as of the day and year first above written.

LESSOR:

Robert John Garibaldi

Taxpayer I.D. #

[redacted]

Barbara Jean Garibaldi

STATE OF CALIFORNIA)
)
COUNTY OF Mendocino)

LESSEE:

CALIFORNIA RSA #9, INC.
a California corporation

By: William R. Gill

William R. Gill
Director of Network Operations
West Region
United States Cellular
Mobile Telephone Network

On September 15 1995, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Robert John Garibaldi personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that (he) (she) executed the same in (his) (her) authorized capacity, and that by (his) (her) signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Judy Weer (Seal)
Notary Public

OFFICIAL SEAL
JUDY WEER
NOTARY PUBLIC - CALIFORNIA
COUNTY OF MENDOCINO
My Commission Expires Sept. 27, 1995

STATE OF CALIFORNIA)
)
COUNTY OF Mendocino)

On September 15 1995, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Barbara Jean Garibaldi personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that (he) (she) executed the same in (his) (her) authorized capacity, and that by (his) (her) signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Judy Weer (Seal)
Notary Public

OFFICIAL SEAL
JUDY WEER
NOTARY PUBLIC - CALIFORNIA
COUNTY OF MENDOCINO
My Commission Expires Sept. 27, 1995

STATE OF WASHINGTON)
)
COUNTY OF CLARK)

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that William R. Gill,

Director of Network Operations, West Region, of *United States Cellular Mobile Telephone Network*, known to me to be the same person whose name is subscribed to the foregoing Ground Lease, appeared before me this day in person and acknowledged that, pursuant to his authority, he signed the said Lease as his free and voluntary act, and as the free and voluntary act and deed of **CALIFORNIA RSA #9, INC.**, a California corporation, for the uses and purposes therein stated.

Given under my hand and seal this 19th day of September, 1995.

Notary Public

verizon
Updated 02.27.24

Radio Frequency Exposure
FCC Compliance Assessment

☒ Pre-Activation ☐ Post-Activation

SITE INFORMATION			
Site Name	**Stornetta**	**Multi-Licensee/Carrier Facility**	**☒ YES ☐ NO**
Street Address	**20001 S Highway 1,**	**Is Verizon a Significant RFE Contributor in Co-Locator Areas Requiring Mitigation?**	**☐ YES ☒ NO ☐ N/A**
City, State, Zip	**Manchester, CA 95459,**		
Verizon's Max % MPE (Measured - General Population (GP))	**N/A**	**Verizon's Max % MPE (Predictive – GP)**	**12.18 %**
Structure Type	**Lattice Tower**	**Assessment Date**	**September 26, 2025**
Broadcast (AM/FM/TV) Co-Locators	**☐ YES ☒ NO**	**Assessment Purpose**	**NSB**
Total # Access Points	**1+**	**# Total Report Revisions**	**0**
Original Report Date	**September 26, 2025**	**Report Revision Date**	**N/A**
RFE Compliance Status	**☒ SITE COMPLIANT AS DESIGNED (no additional mitigation required)** **☐ SITE MITIGATION IS REQUIRED (see requirements below)(barriers, signs, etc)** **☐ SITE will be COMPLIANT with REQUIRED SITE REDESIGN (incl power changes)**		

VERIZON'S HIGHEST (WORST) RF EMISSIONS IN ACCESSIBLE AREAS FOR THIS SITE	
☒	BELOW the General Population MPE limit
☐	ABOVE the General Population MPE limit and BELOW the Occupational MPE limit
☐	ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit
☐	ABOVE 10x the Occupational MPE limit

Final Compliant Configuration	 Safety Guidelines	 Notice	 Caution	 Warning	 Information	 Barriers/Markers	
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**	
Access Point(s)	☐	☐	☐	☐	☐	☐	N/A
Alpha	☐	☐	☐	☐	☐	☐	N/A
Beta	☐	☐	☐	☐	☐	☐	N/A
Gamma	☐	☐	☐	☐	☐	☐	N/A
Delta	☐	☐	☐	☐	☐	☐	N/A

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☐ **RFSP Required**

An RF Safety Plan is a document that shows areas that exceed the applicable MPE limit, lists any required signage and barriers, and describes the safety precautions and operational procedures that must be observed at the Site. The RF Team must provide an RF Safety Plan to Verizon employees and contractors who have keys to doors, ladder locks, etc. Included are any power reductions for compliance.

☐ **RFSP Letter Required**

An RF Safety Plan letter (Letter) is a message that the RF team prepares based on a template. It includes a simplified description of the RF Safety Plan and serves as another Site mitigation measure that Verizon can use to address RFE in excess of the applicable MPE limit. Verizon must use the Letter in conjunction with other required Site mitigation. The Letter is not a substitute for installing signage, barriers and positive access controls, as required, based on the RFE levels (RFE Category) in the area.

Description of all Compliance Requirement(s):
Signage is not required. To reduce the risk of exposure and/or injury, EBI recommends that access to the Lattice Tower or areas associated with the active antenna installation be restricted and secured where possible.

Consultant Legal Name	EBI Consulting	**Phone/Fax**	781-273-2500
Email Contact	Info@ebiconsulting.com		
Address	21 B Street, Burlington, MA 01803		

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1. Introduction

Verizon Wireless has contracted with contracted with EBI Consulting, an independent Radio Frequency consulting firm, to conduct a **Radio Frequency Exposure (RFE) FCC Compliance Assessment** of the StornettaRF transmitter (Antenna) location (Site). The following report contains a detailed summary of the Radio Frequency environment for the Site as it relates to the Federal Communications Commission (FCC) RFE rules and Occupational Safety & Health Administration (OSHA) Rules and Regulations.

The **Verizon Wireless Antenna data** was provided by:

Name	Alliyah Muhammad
Title	Project Coordinator - Complete Wireless Consulting, Inc.
Date	08-26-2025
Sub-Market	**NorCal**
Email/Phone	209-346-1091 Amuhammad@completewireless.net

This RFE FCC Compliance Assessment and Report has been **prepared** and **reviewed** by:

	Preparer
Name	Nathanial Boucher
Title	RF EME Specialist
Date	September 26, 2025

This report utilizes the following **for predictive modeling of the ambient RF environment**:
MPE Modeling Program:
Model Used: IXUS version number: 4.11 (0)2024.1.0 (Calculator: 2024.1).
Reflection Coefficient Y/N : N
Required Modeling Assumptions:
Duty Cycle: C-Band, CBRS, mmWave modeled at 80%. All other technology modeled at 100%. Duty Cycle and Maximum Total Power Output based on inputs.
Additional Modeling Assumptions:

EBI has performed theoretical MPE modeling using IXUS electromagnetic field (EMF) calculation software was used to assess all the RF field levels presented in this study. IXUS (https://ixusapp.com/) is a software product of Alphawave Mobile Network Produts (Pty) Ltd, who specialize in electromagnetic software and systems. The IXUS software uses a fast and accurate EMF calculation tool that allows for the determination of RF field strength in the vicinity of radio communication base stations and transmitters. At its core, the IXUS EMF calculation module implements field evaluation techniques detailed in the ITU-T K.61, CENELEC 50383, and IEC62232 specifications. The calculation of EMF results at any point in 3-D space is achieved by either a synthetic ray tracing technique, a conservative cylindrical envelope method, or through full-wave EM simulation results obtained from a computational electromagnetic software tool.
The selection of the solution method is determined by the specific antenna being considered. In addition, a conservative and verified modelling technique for 5G beamforming antennas in IXUS is used. The simulation accuracy of the IXUS calculation module has been verified extensively with full-wave EM simulations.

IXUS version number: 4.11 (0)2024.1.0 (Calculator: 2024.1).
Compliance exposure standard: FCC OET 65.

The modeling is based on worst-case scenario for the number of antennas and antenna parameters. The assumptions used in the modeling are based upon information provided by Verizon and information gathered from other sources. All workers and individuals accessing the tower or persons (including arborists), accessing 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.
Modeling results were generated based on information from the following material:

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- RFDS – RFDS_STORNETTA_03042025
- CDs – 17393305_Stornetta_Prelim Const Drawings

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2. Existing Site Characteristics

a. Structure

Physical Description	This project involves the installation of 32, wireless telecommunication antennas on a Lattice Tower at 20001 S Highway 1 in Manchester in CA 95459 The site is a 60-foot lattice tower with a 20-foot extension. It was noted that there was an adjacent structure that could potentially be impacted by the antennas at this site. This adjacent structure was included in the modeling analysis.
Single-Family Home	☐ **YES** ☐ **NO**
Latitude (NAD 83)	38.9648 N
Longitude (NAD 83)	-123.6684 W
Total Analyzed Elevations (All Accessible Levels)	4

b. Nearest Accessible Area(s) to the antenna

The following chart will only need to be filed out for those objects that are near the antennas (that are not part of the existing structure the antennas are on). Not all areas will have a response based on the environment near the structure.

Tool used to obtain distances: measurement in google earth.

Accessible Area	**Distance to Antenna (ft)**			
	Alpha	**Beta**	**Gamma**	**Delta**
Rooftop located on top of adjacent building	N/A	N/A	N/A	N/A
Accessible areas (porch, fire escape) located on side of building	N/A	N/A	N/A	N/A
Buildings with Windows or open air features (ie parking garage)	N/A	N/A	N/A	N/A
Building side with no accessible areas	N/A	N/A	N/A	N/A
Light Pole	N/A	N/A	N/A	N/A
Utility Pole with accessible objects on Pole (Transformers, splicing boxes, etc)	N/A	N/A	N/A	N/A
Utility Pole with no accessible objects (only crossarms and wires)	N/A	N/A	N/A	N/A
Other _____ (fill in the type of object)	N/A	N/A	N/A	N/A

Note- Ground based objects (ie those 6 feet or smaller) are considered part of the ground and will be analyzed when the ground is analyzed and need not be stated.

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c. Accessibility – Site Visits Only

Did the property owner or agent of the property owner (e.g. a security guard) grant you access to the rooftop?	**☐ YES ☐ NO**
If not - were you required to be escorted by Verizon personnel in order to gain access?	**☐ YES ☐ NO**
Were you required to provide any proof of identity to gain access?	**☐ YES ☐ NO**
What specific documents were required in order to gain access?	N/A
Were all access points locked at time of assessment?	**☐ YES ☐ NO**
Were all access points alarmed at time of assessment?	**☐ YES ☐ NO**
Were there any broken locks or inoperable alarms on any of the access points to the rooftop?	**☐ YES ☐ NO**
Were there any access issues caused by either the property owner or agent of the property owner?	**☐ YES ☐ NO**
Additional Notes: This assessment is a pre-activation report. No site visit was conducted.	

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d. Existing Verizon Site Mitigation - based on Site visit or pre-evaluation data received

Existing Site Mitigation	 Safety Guidelines	 Notice	 Caution	 Warning	 Information	 Barriers/Markers
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**
Access Point(s)	☐	☐	☐	☐	☐	☐
Alpha	☐	☐	☐	☐	☐	☐
Beta	☐	☐	☐	☐	☐	☐
Gamma	☐	☐	☐	☐	☐	☐

NOTE: The table above represents EXISTING site mitigation measures previously implemented for this Site.

Are Verizon signs posted on the front, back and sides of antenna arrays where possible?	☐ **YES** ☐ **NO**
Are Verizon signs visible from all areas of approach?	☐ **YES** ☐ **NO**
Are there any broken, damaged or illegible Verizon signs?	☐ **YES** ☐ **NO**
Are there any broken or damaged Verizon physical barriers?	☐ **YES** ☐ **NO**
Are there any Verizon indicative markers in need of repair or replacement?	☐ **YES** ☐ **NO**

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e. Antenna Inventory

Z-height represents the distance from the nearest walking surface to the _____ of the antenna.	**☐ Bottom ☒ Centerline ☐ Top**
NON-Verizon Co-locator Antenna data based on	**☒ Estimates ☐ Actual Data**

Initial Data Submitted

Ant ID	Owner	Antenna model	Mech. Downtilt (°)	Azimuth (°)	Height (ft)	Technology and Frequency (MHz)	Elec. Tilt (°)	HBW (°)	Aperture (feet)	Tx (#)	Total Power Input (Watts)*	Antenna Gain (dBd)	Total ERP (Watts)
VZW A1	Verizon	QS8456-5	0	75	76	LTE 700	2 to 12	49	7.67	2	120	14.35	3267.24
VZW A1	Verizon	QS8456-5	0	75	76	LTE 850	2 to 12	45	7.67	2	120	14.95	3751.3
VZW A2	Verizon	QS8456-5	0	75	76	LTE 700	2 to 12	49	7.67	2	120	14.35	3267.24
VZW A2	Verizon	QS8456-5	0	75	76	LTE 850	2 to 12	45	7.67	2	120	14.95	3751.3
VZW A3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	75	76	LTE 1900	2	121.7	3.94	2	240	20.41	26376.14
VZW A3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	75	76	LTE 2100	2	121.1	3.94	2	240	21.01	30283.86
VZW A4	Verizon	AIR 6419 B77D Envelope	0	75	77.83	3.7GHz	0	104.7	2.35	1	320	22.35	43666.66
VZW B1	Verizon	HG8656-5	0	160	76	LTE 700	0 to 10	62	8	2	120	14.25	3192.87
VZW B1	Verizon	HG8656-5	0	160	76	LTE 850	0 to 10	59	8	2	120	14.55	3421.22
VZW B2	Verizon	HG8656-5	0	160	76	LTE 700	0 to 10	62	8	2	120	14.25	3192.87
VZW B2	Verizon	HG8656-5	0	160	76	LTE 850	0 to 10	59	8	2	120	14.55	3421.22
VZW B3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	160	76	LTE 1900	2	121.7	3.94	2	240	20.41	26376.14
VZW B3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	160	76	LTE 2100	2	121.1	3.94	2	240	21.01	30283.86
VZW B4	Verizon	AIR 6419 B77D Envelope	0	160	77.83	3.7GHz	0	104.7	2.35	1	320	22.35	43666.66
VZW C1	Verizon	HG8656-5	0	255	76	LTE 700	0 to 10	62	8	2	120	14.25	3192.87
VZW C1	Verizon	HG8656-5	0	255	76	LTE 850	0 to 10	59	8	2	120	14.55	3421.22
VZW C2	Verizon	HG8656-5	0	255	76	LTE 700	0 to 10	62	8	2	120	14.25	3192.87
VZW C2	Verizon	HG8656-5	0	255	76	LTE 850	0 to 10	59	8	2	120	14.55	3421.22
VZW C3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	255	76	LTE 1900	2	121.7	3.94	2	240	20.41	26376.14
VZW C3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	255	76	LTE 2100	2	121.1	3.94	2	240	21.01	30283.86
VZW C4	Verizon	AIR 6419 B77D Envelope	0	255	77.83	3.7GHz	0	104.7	2.35	1	320	22.35	43666.66
VZW D1	Verizon	QS8456-5	0	350	76	LTE 700	2 to 12	49	7.67	2	120	14.35	3267.24
VZW D1	Verizon	QS8456-5	0	350	76	LTE 850	2 to 12	45	7.67	2	120	14.95	3751.3
VZW D2	Verizon	QS8456-5	0	350	76	LTE 700	2 to 12	49	7.67	2	120	14.35	3267.24
VZW D2	Verizon	QS8456-5	0	350	76	LTE 850	2 to 12	45	7.67	2	120	14.95	3751.3

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Ant ID	Owner	Antenna model	Mech. Downtilt (°)	Azimuth (°)	Height (ft)	Technology and Frequency (MHz)	Elec. Tilt (°)	HBW (°)	Aperture (feet)	Tx (#)	Total Power Input (Watts)*	Antenna Gain (dBd)	Total ERP (Watts)
VZW D3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	350	76	LTE 1900	2	121.7	3.94	2	240	20.41	26376.14
VZW D3	Verizon	AIR 3283 B25 B66 32 Ports Envelope	0	350	76	LTE 2100	2	121.1	3.94	2	240	21.01	30283.86
VZW D4	Verizon	AIR 6419 B77D Envelope	0	350	77.8	3.7GHz	0	104.7	2.35	1	320	22.35	43666.66
UNK 1 A1	Unknown	Generic	0	75	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 A1	Unknown	Generic	0	75	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 A2	Unknown	Generic	0	75	55.25	LTE 850	2	64	6.55	4	160	13.85	3882.58
UNK 1 A2	Unknown	Generic	0	75	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 A3	Unknown	Generic	0	75	55.25	650MHz	2	66	6.55	4	80	13.35	1730.17
UNK 1 A3	Unknown	Generic	0	75	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 A4	Unknown	Generic	0	75	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 A4	Unknown	Generic	0	75	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 B1	Unknown	Generic	0	160	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 B1	Unknown	Generic	0	160	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 B2	Unknown	Generic	0	160	55.25	LTE 850	2	64	6.55	4	160	13.85	3882.58
UNK 1 B2	Unknown	Generic	0	160	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 B3	Unknown	Generic	0	160	55.25	650MHz	2	66	6.55	4	80	13.35	1730.17
UNK 1 B3	Unknown	Generic	0	160	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 B4	Unknown	Generic	0	160	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 B4	Unknown	Generic	0	160	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 C1	Unknown	Generic	0	255	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 C1	Unknown	Generic	0	255	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 C2	Unknown	Generic	0	255	55.25	LTE 850	2	64	6.55	4	160	13.85	3882.58
UNK 1 C2	Unknown	Generic	0	255	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 C3	Unknown	Generic	0	255	55.25	650MHz	2	66	6.55	4	80	13.35	1730.17

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Ant ID	Owner	Antenna model	Mech. Downtilt (°)	Azimuth (°)	Height (ft)	Technology and Frequency (MHz)	Elec. Tilt (°)	HBW (°)	Aperture (feet)	Tx (#)	Total Power Input (Watts)*	Antenna Gain (dBd)	Total ERP (Watts)
UNK 1 C3	Unknown	Generic	0	255	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 C4	Unknown	Generic	0	255	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 C4	Unknown	Generic	0	255	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 D1	Unknown	Generic	0	350	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 D1	Unknown	Generic	0	350	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 D2	Unknown	Generic	0	350	55.25	LTE 850	2	64	6.55	4	160	13.85	3882.58
UNK 1 D2	Unknown	Generic	0	350	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88
UNK 1 D3	Unknown	Generic	0	350	55.25	650MHz	2	66	6.55	4	80	13.35	1730.17
UNK 1 D3	Unknown	Generic	0	350	55.25	LTE 1900	2	60	6.55	4	160	14.65	4667.88
UNK 1 D4	Unknown	Generic	0	350	55.25	LTE 700	2	66	6.55	4	80	13.35	1730.17
UNK 1 D4	Unknown	Generic	0	350	55.25	LTE 2100	2	60	6.55	4	160	14.65	4667.88

*A duty cycle of 80% has been applied to all CBRS, mmWave and C-Band technologies. This is reflected in the total ERP.

Ant ID	Owner	Radiation CL Height (ft)	Z-Height Equipment Shelter	Z-Height Ground
VZW A1	Verizon	76	66.00	76.00
VZW A2	Verizon	76	66.00	76.00
VZW A3	Verizon	76	66.00	76.00
VZW A4	Verizon	77.83	67.83	77.83
VZW B1	Verizon	76	66.00	76.00
VZW B2	Verizon	76	66.00	76.00
VZW B3	Verizon	76	66.00	76.00
VZW B4	Verizon	77.83	67.83	77.83
VZW C1	Verizon	76	66.00	76.00
VZW C2	Verizon	76	66.00	76.00
VZW C3	Verizon	76	66.00	76.00
VZW C4	Verizon	77.83	67.83	77.83
VZW D1	Verizon	76	66.00	76.00
VZW D2	Verizon	76	66.00	76.00

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Ant ID	Owner	Radiation CL Height (ft)	Z-Height Equipment Shelter	Z-Height Ground
VZW D3	Verizon	76	66.00	76.00
VZW D4	Verizon	77.8	67.80	77.80
UNK 1 A1	Unknown	55.25	45.25	55.25
UNK 1 A2	Unknown	55.25	45.25	55.25
UNK 1 A3	Unknown	55.25	45.25	55.25
UNK 1 A4	Unknown	55.25	45.25	55.25
UNK 1 B1	Unknown	55.25	45.25	55.25
UNK 1 B2	Unknown	55.25	45.25	55.25
UNK 1 B3	Unknown	55.25	45.25	55.25
UNK 1 B4	Unknown	55.25	45.25	55.25
UNK 1 C1	Unknown	55.25	45.25	55.25
UNK 1 C2	Unknown	55.25	45.25	55.25
UNK 1 C3	Unknown	55.25	45.25	55.25
UNK 1 C4	Unknown	55.25	45.25	55.25
UNK 1 D1	Unknown	55.25	45.25	55.25
UNK 1 D2	Unknown	55.25	45.25	55.25
UNK 1 D3	Unknown	55.25	45.25	55.25
UNK 1 D4	Unknown	55.25	45.25	55.25

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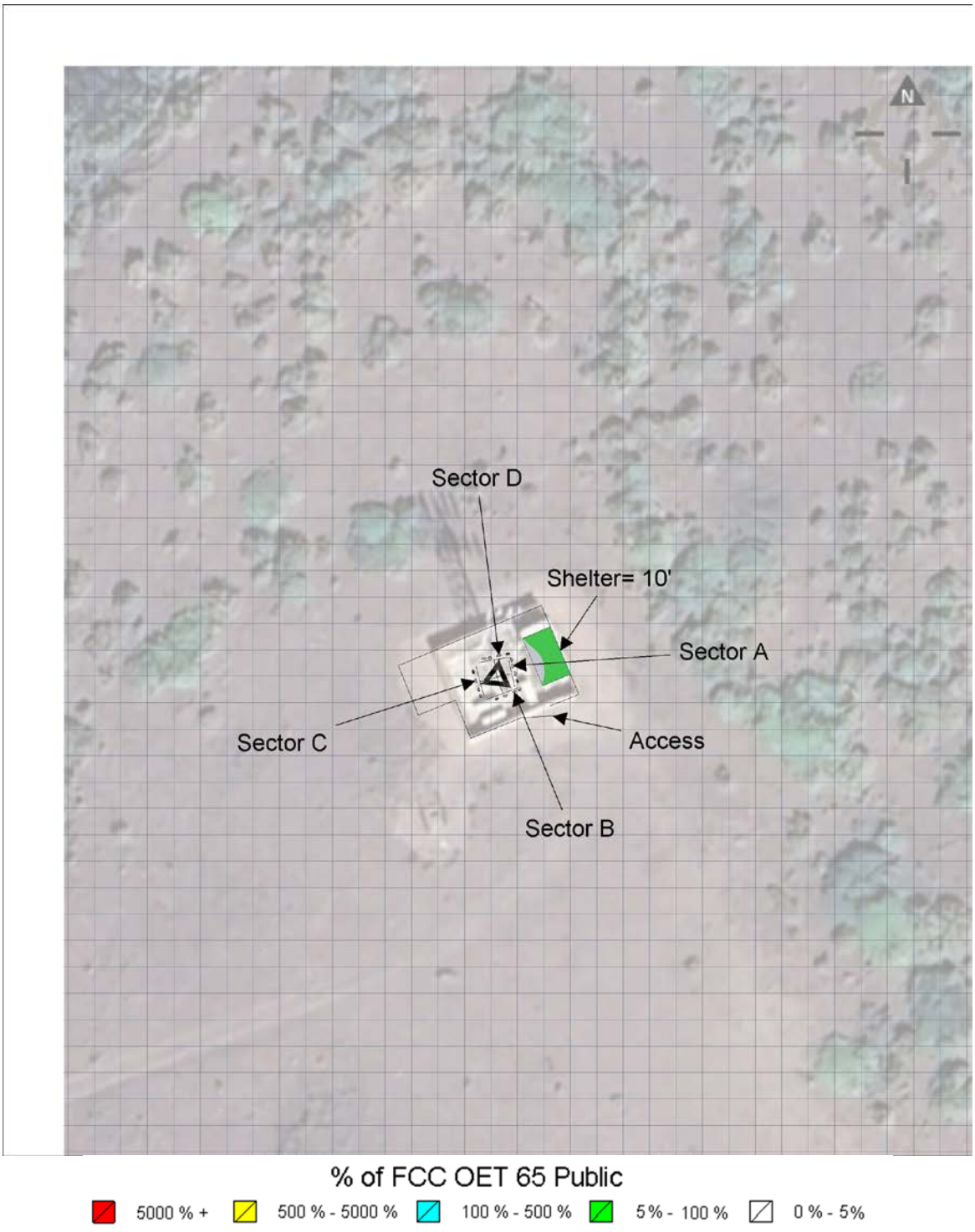
3. Analysis

a. Predictive Modeling

Is the areas being modeled ONLY accessible to persons trained to work in an RF environment (Occupational Area)?	**☐ YES ☒ NO**

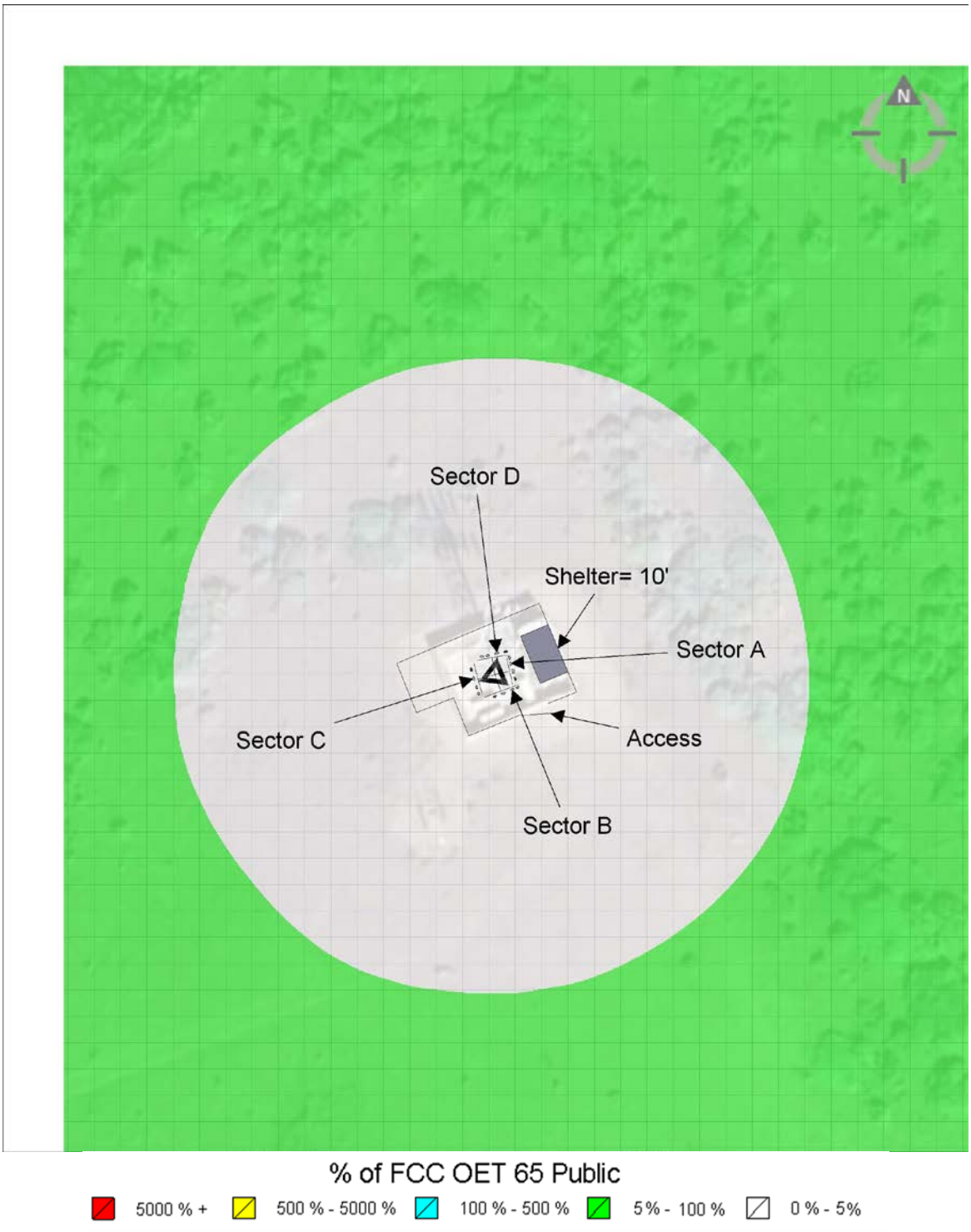
i. All Known RF Transmitters (Antennas)

Reference Plane: Equipment Shelter (10 feet AGL)



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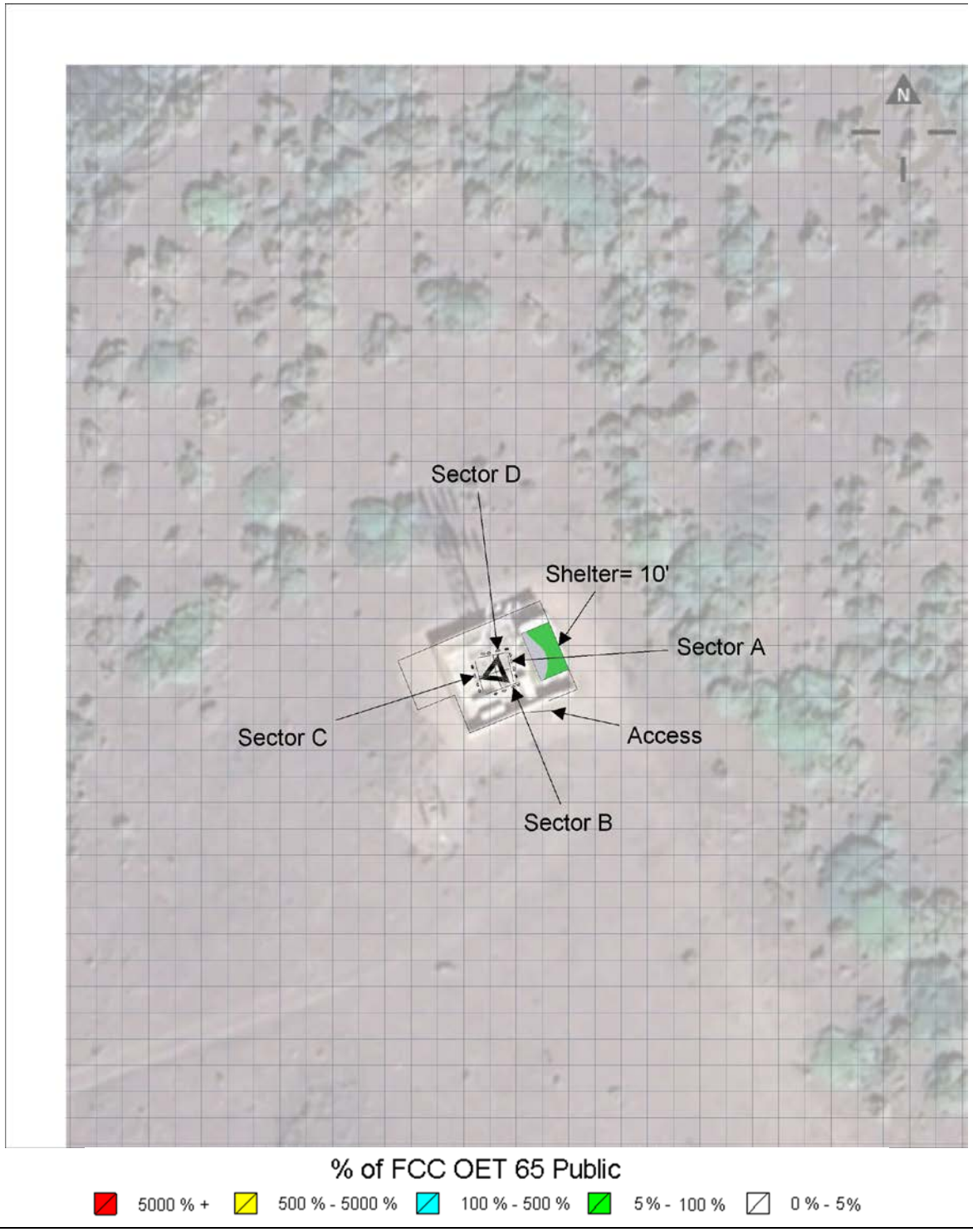
Reference Plane: Ground Level (0 feet AGL)



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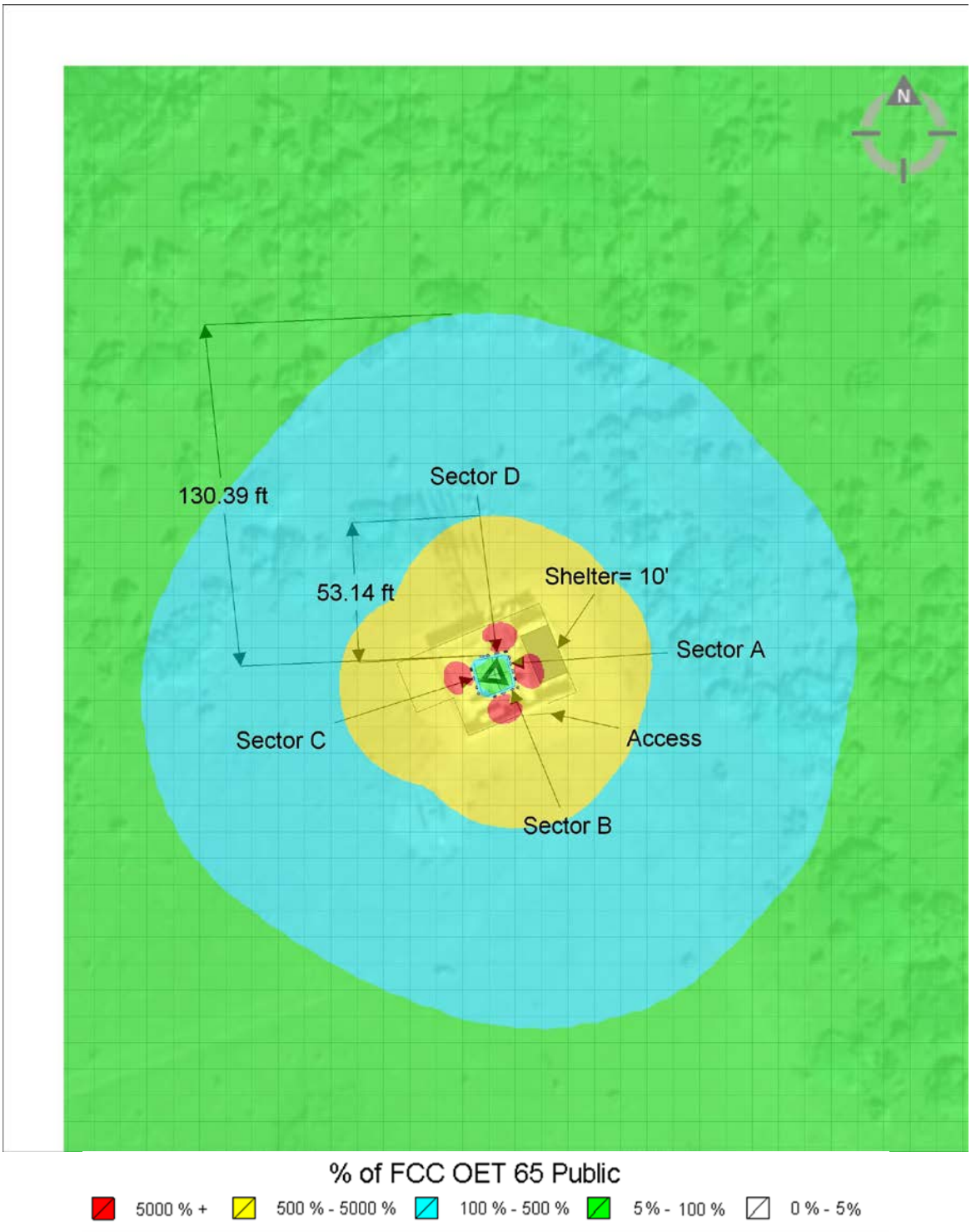
ii. Verizon Transmitters

Reference Plane: Equipment Shelter (10 feet AGL)



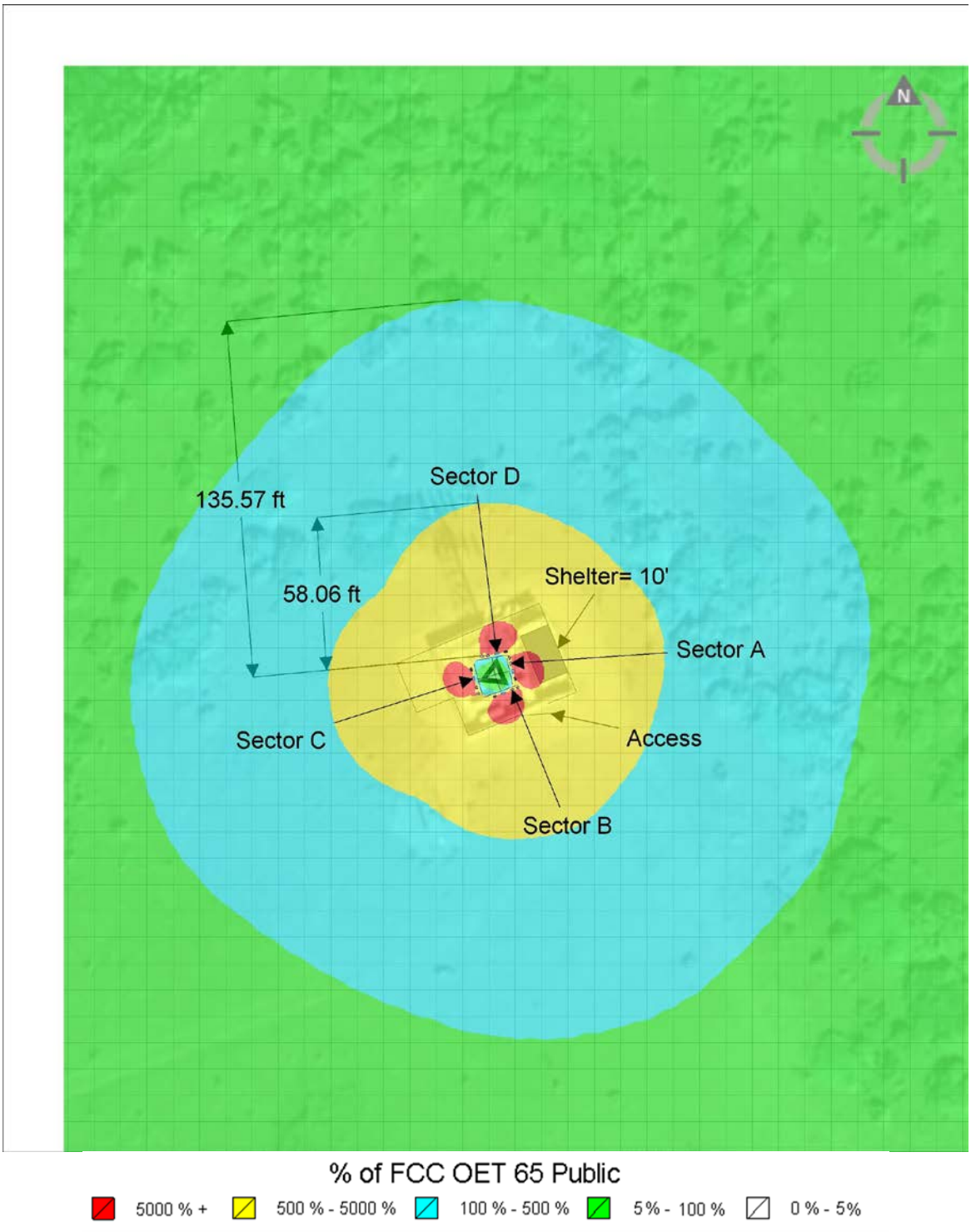
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Reference Plane: Upper Antenna Face Level (77.8 feet AGL)



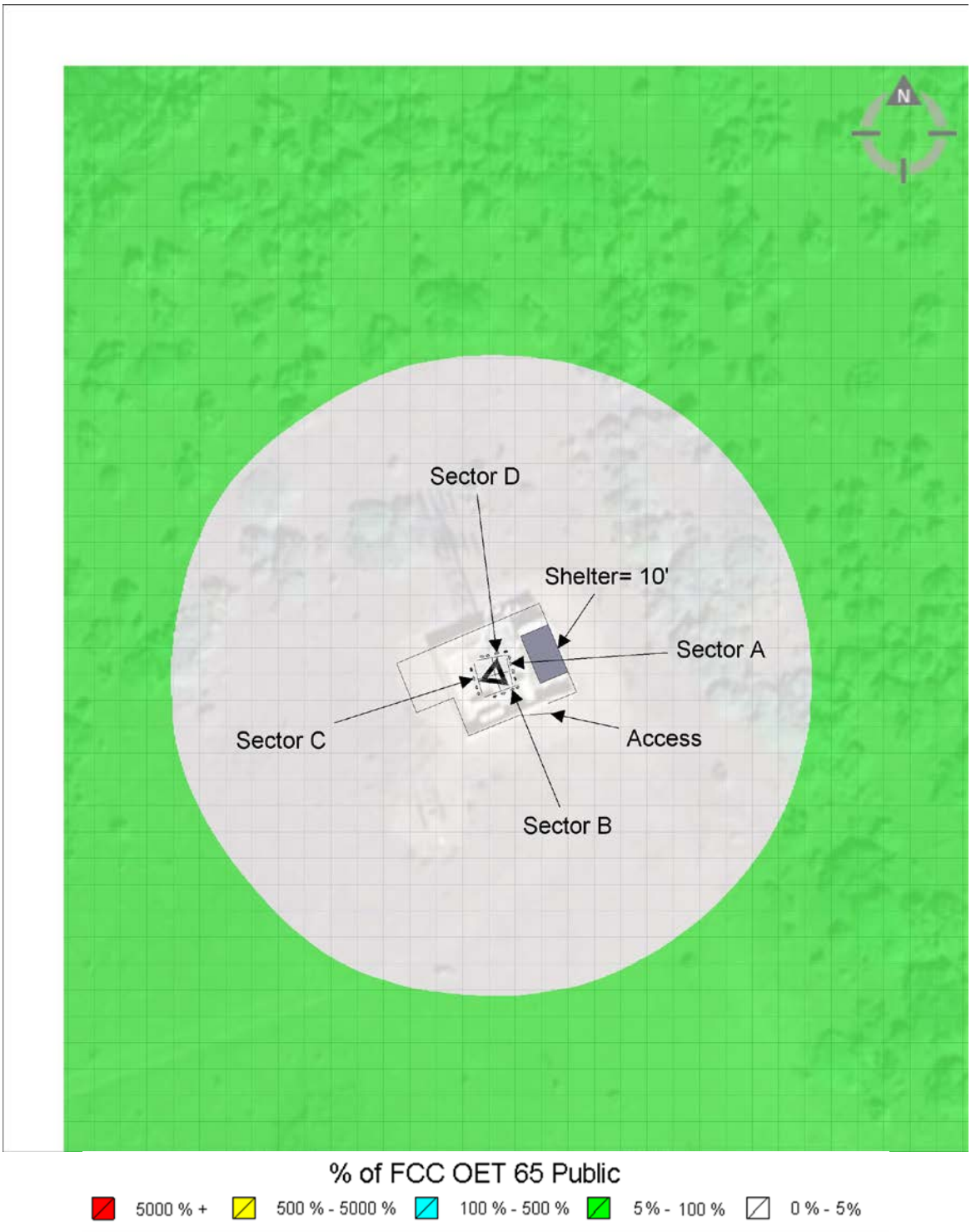
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Reference Plane: Lower Antenna Face Level (76 feet AGL)



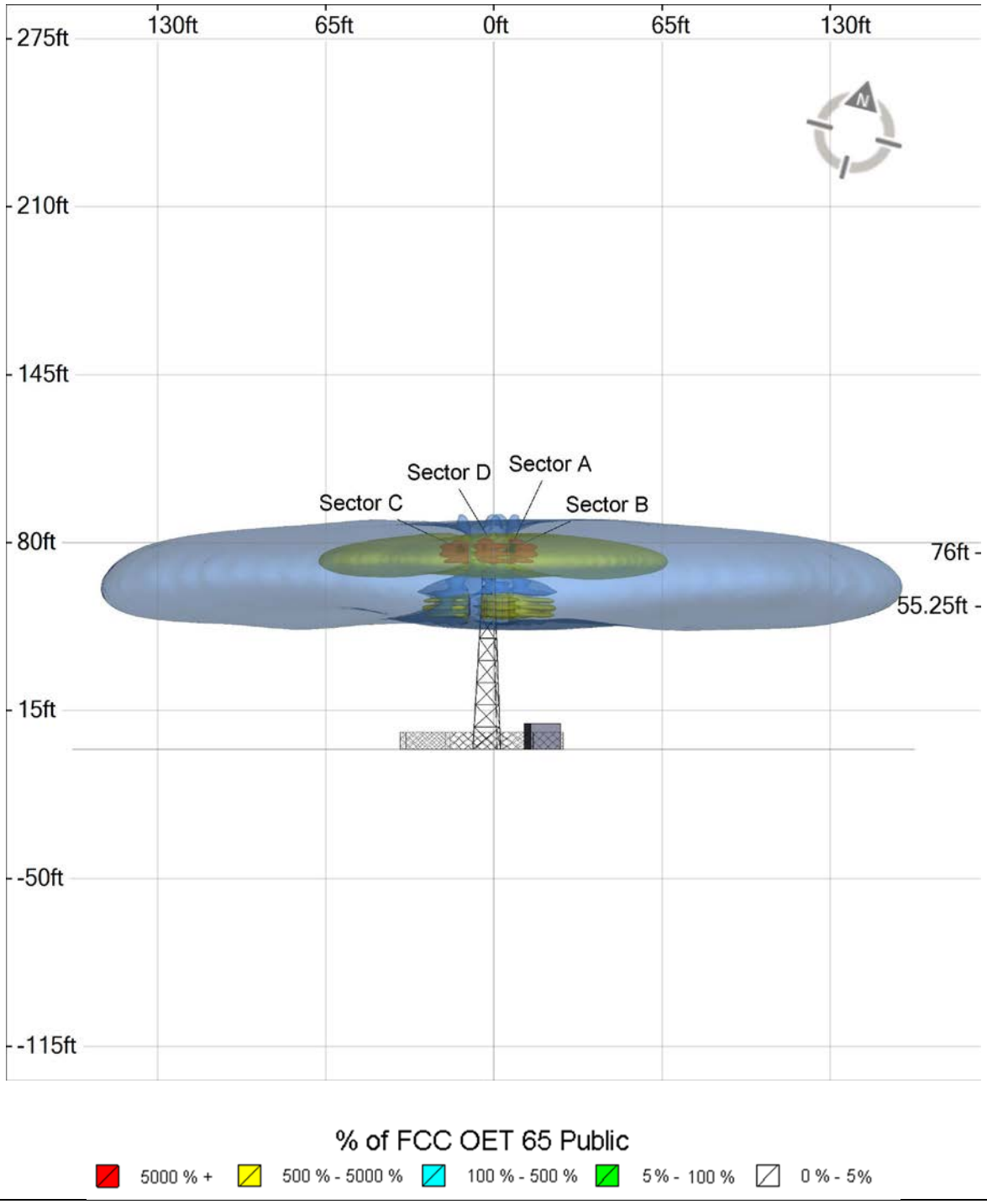
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Reference Plane: Ground Level (0 feet AGL)



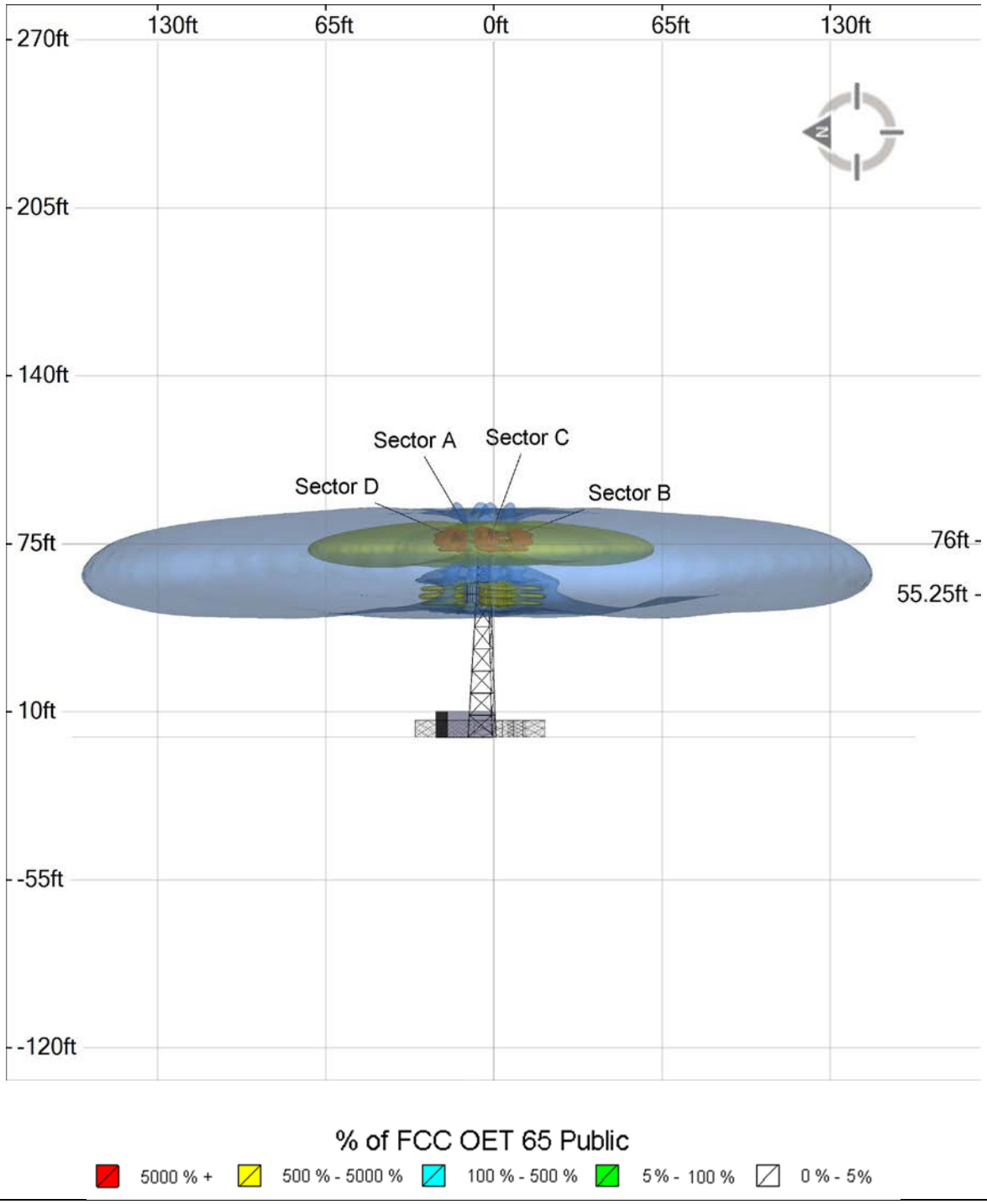
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Reference Plane: South Elevation View



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Reference Plane: West Elevation View



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4. Conclusion

a. RFE Evaluation Results Narrative

Description of MPE-Limit Exceeding Areas:

The maximum cumulative exposure level from all carriers at this site does not exceed the FCC's general population limits nor the FCC's occupational limits.

Additionally, all surrounding buildings and structures were analyzed and the maximum emitted power density modeled on these surfaces is less than the FCC's general public limit.

Modeling results are shown below and expressed as percentages of the FCC's applicable MPE limits for human exposure to RF-EME.

Maximum Calculated MPE's on Site	Verizon Only % MPE Limit
	General Population
Equipment Shelter	6.041
Equipment Shelter_VZ Only	5.39
Ground Level	12.55
Ground Level_VZ Only	12.18
Lower Antenna Face Level	171,500
Upper Antenna Face Level	43,190

Potentially Non-Compliant Collocator Areas: Verizon Responsibility
The following table represents potentially non-compliant co-locators for which Verizon is a 5% General Population MPE (1% Occupational MPE) contributor (5% ring).

AT&T	T-Mobile	Dish	Other (name)	Unknown	Other
☐	☐	☐	☐	☐	

All workers and individuals accessing the tower or persons (including arborists), accessing 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.

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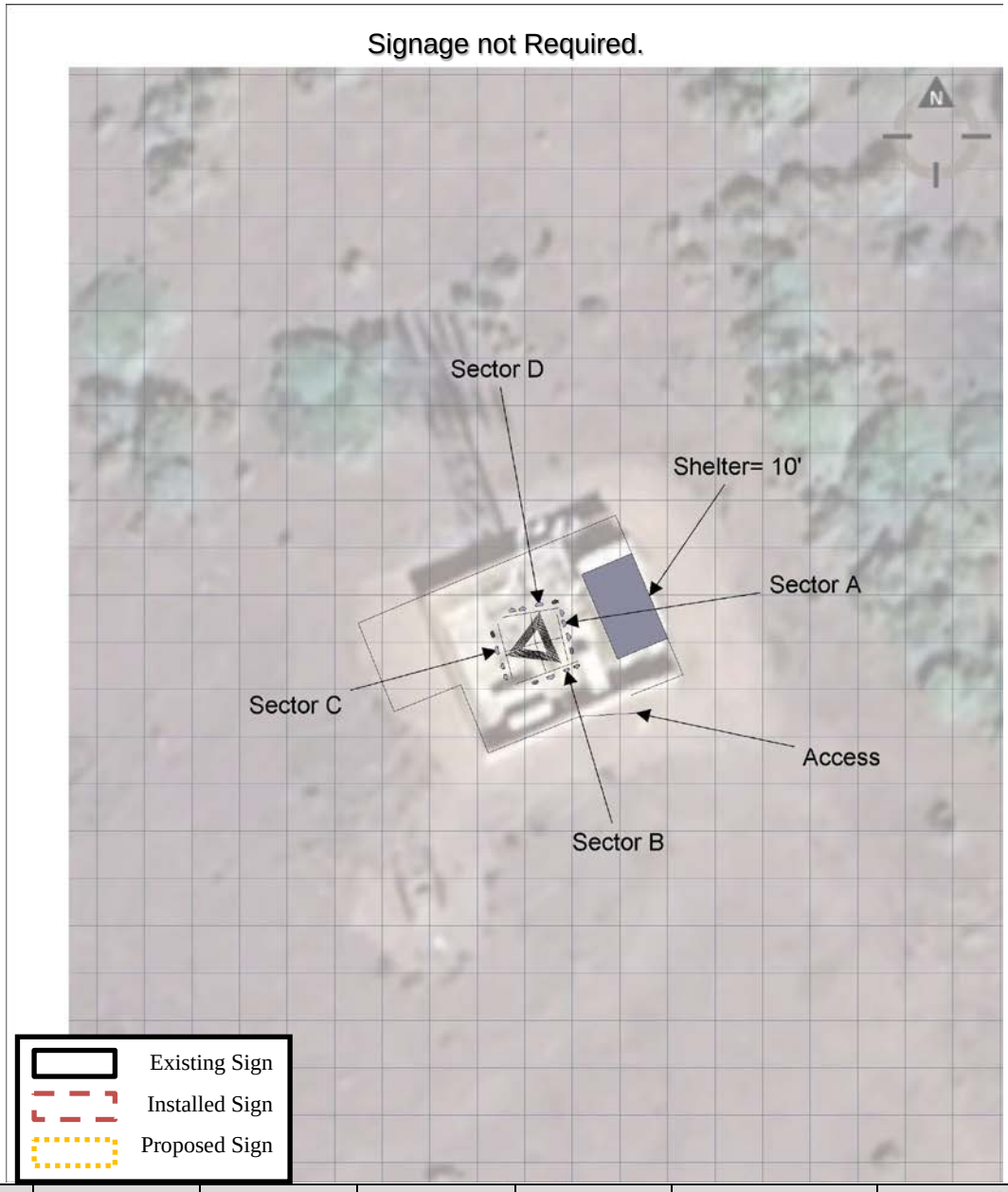
Distance calculations were also performed during the modeling analysis to determine stay-back distances from the antennas. Areas exceeding each applicable limit were measured at the antenna face level and below the bottom of the antenna and are shown below to illustrate horizontal and vertical stay-back distances.

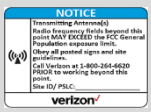
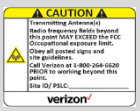
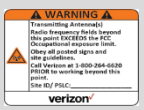
Stay-Back Distances (feet) from Antennas			
Orientation	**Description**	**Exceeds General Population MPE**	**Exceeds Occupational MPE**
Horizontal	Maximum distance of emissions predicted to exceed limits from the antenna face	136.0	59.0
Vertical	Maximum distance of emissions predicted to exceed limits below the bottom of the antenna.	26.0	6.0

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b. Site Mitigation Diagram (Signage/Barriers)

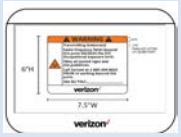
Signage Diagram



Final Compliant Configuration							
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER	
Access Point(s)	☐	☐	☐	☐	☐	☐	N/A
Alpha	☐	☐	☐	☐	☐	☐	N/A
Beta	☐	☐	☐	☐	☐	☐	N/A
Gamma	☐	☐	☐	☐	☐	☐	N/A
Delta	☐	☐	☐	☐	☐	☐	N/A

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c. Signage/Barrier Installation Detail

Mitigation Actions Required/Taken												
	GUIDELINES		**NOTICE**		**CAUTION**		**WARNING**		**NOC INFO**		**BARRIER/MARKER**	
Access Point(s)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	N/A
Alpha	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	N/A
Beta	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	N/A
Gamma	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	N/A
Delta	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	N/A
	ADD	**REM**	**ADD**	**REM**	**ADD**	**REM**	**ADD**	**REM**	**ADD**	**REM**	**ADD ONLY**	

NOTE: The above table describes the signage/barriers that were installed or removed by the consultant/vendor. If NOT installed by the consultant/vendor what actions are required.

SPECIAL MITIGATION INSTRUCTIONS	
Items to be Installed	• Signage is not required.
Items to be Removed	N/A
Items to be Repaired/Replaced	N/A

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Appendix A: Site Photos

N/A – no site visit was performed.

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Appendix B: Survey Methodology

N/A – no site visit was performed.

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Appendix C: RFE Consultant Certifications

Preparer Certification

I, Nathanial Boucher, the preparer of this report, 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 am also fully aware of and familiar with Verizon Wireless's RFE Compliance Analysis policy (RFE CAP) and Signage & Demarcation policy I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



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Appendix D: Reference Information

e. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure (RFE) from wireless facilities (Sites). The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards "incorporate prudent margins of safety." The following is an overview of the FCC requirements:

Maximum Permissible Exposure Limit Classifications

Occupational/Controlled Environment – An area where RF exposure may occur with persons who are aware of the potential for exposure as a condition of employment (e.g., telecommunications workers) or specific activity and can exercise control over their exposure. This category includes RF-trained workers who know how to work in an RF environment.	General Population/Uncontrolled Environment – An area where RF exposure may occur with persons who are **unaware** of the potential for exposure and who **have no control** over their exposure. This category is composed of the general public, including untrained workers.

Limits for Occupational/Controlled Exposure		
Frequency Range (MHz)	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$, or S (minutes)**
300-1500	f/300	6
1500-100,000	5	6
Limits for General Population/Uncontrolled Exposure		
Frequency Range (MHz)	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$, or S (minutes)**
300-1500	f/1500	30
1500-100,000	1	30
f = frequency in MHz		

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Significant Contribution to the RF Environment

In general, when the exposure limits specified in § 1.1310 of this part are exceeded in an accessible area due to the emissions from multiple fixed RF sources, actions necessary to bring the area into compliance or preparation of an Environmental Assessment (EA) as specified in § 1.1311 of this part are the shared responsibility of all licensees whose RF sources produce, at the area in question, levels that exceed 5% of the applicable exposure limit proportional to power. However, a licensee demonstrating that its facility was not the most recently modified or newly-constructed facility at the site establishes a rebuttable presumption that such licensee should not be liable in an enforcement proceeding relating to the period of non-compliance. Field strengths must be squared to be proportional to SAR or power density. Specifically, these compliance requirements apply if the square of the electric or magnetic field strength exposure level applicable to a particular RF source exceeds 5% of the square of the electric or magnetic field strength limit at the area in question where the levels due to multiple fixed RF sources exceed the exposure limit.

f. Occupational Safety and Health Administration (OSHA) Requirements

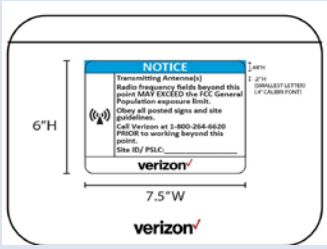
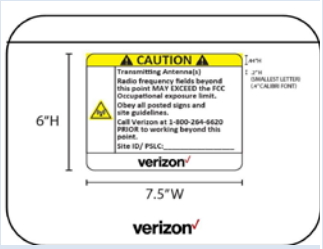
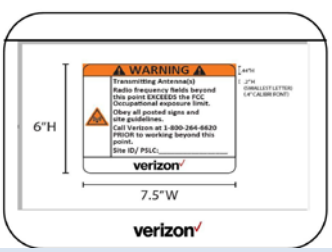
A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

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

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g. RF Signage

RFE Signage is signs meeting certain specifications that Verizon installs to inform people about an RFE source in an area accessible by people where the applicable MPE limit is exceeded. Per OSHA requirements, all signs shall be furnished with rounded or blunt corners and shall be free from sharp edges, burrs, splinters, or other sharp projections. The ends or heads of bolts or other fastening devices shall be located in such a way that they do not constitute a hazard.

GUIDELINES	Category Two - Notice	Category Three - Caution	Category Four – Warning or Danger
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 or Red ● Sign Signal Word "Warning" or "Danger" Red "DANGER" signs must be installed (in addition to the **orange** warning signs) in Areas where immediate and serious injury will occur on contact with an Antenna. No access to category four areas un-less a reduction in category occurs.
			

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"	

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Signs for Category Two through Four must have the following:

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

h. Physical Barriers

Physical barriers are human-made structural obstacles installed at a Site that:

- demarcate RFE Category boundaries; are installed above ground;
- possess enough structural integrity to withstand normal environmental forces (e.g., wind, rain, snow, ice); and
- are typically 39 to 42 inches in height so as not to pose a tripping hazard.
- **Example**: chain-connected stanchions

i. Indicative Markers

Indicative Markers are another type of barrier that Verizon uses. Indicative markers are:

- objects that indicate a position, place, or route; are typically placed on the ground;
- and demarcate RFE Category boundaries.

Verizon frequently uses Indicative Markers in warmer climates where there is little snow or debris accumulation that would impede their visibility.
Example: paint stripes

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verizon

STORNETTA

20001 ST HWY 1, MANCHESTER, CA 95459
MDG LOCATION ID: 5000968099
PROJECT ID: 17393305

PROJECT DESCRIPTION

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

- (N) LEASE AREA W/ (N) GROUND MOUNTED CABINETS & (N) DIESEL GENERATOR & (N) UTILITIES TO (N) SITE LOCATION
- (N) ANTENNAS & ANTENNA EQUIPMENT ON (E) US CELLULAR LATTICE TOWER

PROJECT INFORMATION

SITE NAME:	STORNETTA	TOWER OWNER:	US CELLULAR TOWER 568466 6615 TOWPATH ROAD EAST SYRACUSE, CA 92626
MDG LOCATION ID:	5000968099	APPLICANT:	VERIZON WIRELESS 2770 SHADELANDS DR, BLDG 11 WALNUT CREEK, CA 94598
COUNTY:	MENDOCINO COUNTY	SITE ACQUISITION COMPANY:	COMPLETE WIRELESS CONSULTING 2009 V STREET SACRAMENTO, CA 95818
JURISDICTION:	MENDOCINO COUNTY	LEASING CONTACT:	ATTN: KIM LE (916) 747-2314 KLE@COMPLETEWIRELESS.NET
APN:	133-110-27	ZONING CONTACT:	ATTN: MATTHEW MOORE (916)-247-3047 MMOORE@COMPLETEWIRELESS.NET
SITE ADDRESS:	20001 ST HWY 1 MANCHESTER, CA 95459	CONSTRUCTION CONTACT:	ATTN: SEAN WALLIN (916) 591-8574 SWALLIN@COMPLETEWIRELESS.NET
CURRENT ZONING:	RANGE LAND – MM		
CONSTRUCTION TYPE:	V-B		
OCCUPANCY TYPE:	U (UNMANNED COMMUNICATIONS FACILITY)		
POWER:	PG&E		
LATITUDE:	N 38° 57' 53.2" NAD 83 N 38.964768° NAD 83		
LONGITUDE:	W 123° 40' 6.1" NAD 83 W 123.668364° NAD 83		
PROPERTY OWNER:	DIAMOND K J PROPERTY LLC 19974 JESUS MARIA RD MOKELUMNE HILL, CA 95245-9560		
GROUND ELEVATION:	370' AMSL		

DESIGN CRITERIA

RISK CATEGORY: II	ROOF LIVE LOAD: N/A	FLOOR LIVE LOAD: N/A	ALLOW SOIL BEARING: N/A
WIND EXPOSURE: C	DESIGN WIND SPEED: 91 MPH	GROUND ELEVATION: 370'	TOPOGRAPHIC CATEGORY: I
SEISMIC SITE CLASS: D	SEISMIC DESIGN CATEGORY: D	SEISMIC COMPONENT I_P: 1.0	a_P: 1.0 R_P: 2.5
S_{DS}: 1.955	S_{D1}: N/A	S_S: 2.443	S_1: 1.025

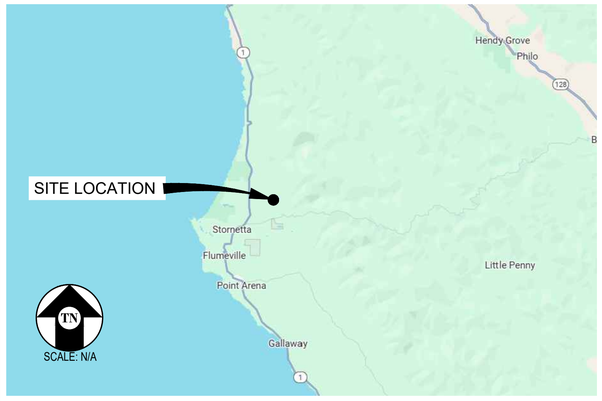
TESTS AND SPECIAL INSPECTIONS

STREAMLINE ENGINEERING & DESIGN, INC. DOES NOT REQUIRE ANY STRUCTURAL OBSERVATION OR SPECIAL INSPECTION OF ANY STRUCTURAL COMPONENT ABOVE & BEYOND WHAT IS LISTED BELOW UNLESS OTHERWISE REQUIRED BY JURISDICTION.

PROVIDE COMPLETE TESTING AND INSPECTIONS IN ACCORDANCE WITH THE CBC, CHAPTER 17 AS NOTED BELOW:

1. POST INSTALLED ANCHORS IN ACCORDANCE WITH CURRENT ICC REPORTS FOR THE SPECIFIED ANCHORAGES.

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, VOLUMES 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 CITY OF SAN FRANCISCO FIRE CODE
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2021 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	–
T-1.2	GENERAL NOTES	–
T-1.3	SIGNAGE DETAILS	–
C-1	SITE SURVEY	–
A-1.1	OVERALL SITE PLAN	–
A-1.2	ENLARGED SITE PLANS	–
A-1.3	COMPOUND PLAN	–
A-1.4	EQUIPMENT PLAN	–
A-2.1	ANTENNA PLAN	–
A-3.1	ELEVATIONS	–
A-3.2	ELEVATIONS	–
A-4.1	ANTENNA DETAILS	–
A-4.2	EQUIPMENT DETAILS	–
A-5.1	BATTERY SPECIFICATIONS	–
A-5.2	GENERATOR SPECIFICATIONS	–
A-5.3	GENERATOR SPECIFICATIONS	–
A-5.4	GENERATOR SPECIFICATIONS	–
S-1.1	STRUCTURAL DETAILS	–
S-1.2	STRUCTURAL DETAILS	–
S-1.3	STRUCTURAL DETAILS	–
E-1.1	ELECTRICAL PLAN	–
E-1.2	GROUNDING PLAN	–
E-1.3	GROUNDING PLAN & DETAILS	–

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

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

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

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

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF STREAMLINE ENGINEERING AND DESIGN, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE REUSE OF THESE PLANS IN WHOLE OR IN PART BY ANY PERSON OTHER THAN THE ENGINEER, THEREOF IS WITHOUT THE EXPRESS WRITTEN PERMISSION OF STREAMLINE ENGINEERING AND DESIGN INC. ALL RIGHTS RESERVED.

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1.1

PROJECT GENERAL NOTES

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

CONSTRUCTION NOTES

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING. INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
8. CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.

CONCRETE CORE/DRILLING NOTES

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING ANCHORS INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
9. MINIMUM LAP SPLICE SHALL BE 56 BAR DIAMETERS UNLESS OTHERWISE NOTED.
10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
14. ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554, GR.36 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
15. A ¾" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

EXPANSION & EPOXY ANCHORS

1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC).
2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2021 IBC MINIMUM REQUIREMENTS IN THE ICC REPORT
3. CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4266 OR APPROVED EQUIVALENT.
4. CMU EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4561 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1⅜" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
5. CONCRETE ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3814 OR APPROVED EQUIVALENT.
6. GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT-HY 200 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3963 OR APPROVED EQUIVALENT.
7. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2022 CBC, TABLE 1705.3, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
8. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW1 (316) (¼" TO ⅝") OR F593 CW2 (316) (¾" TO 1½") STAINLESS STEEL U.O.N.
9. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
10. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 11 BELOW FOR FREQUENCY OF INSPECTIONS.
11. 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 10 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES NOTED BELOW:

KB TZ2:

CONCRETE TORQUE TEST VALUES:
⅜"=30 FT LB ½"=40 FT LB ⅝"=60 FT LB ¾"=125 FT LB

CMU TORQUE TEST VALUES:
⅜"=15 FT LB ½"=25 FT LB ⅝"=35 FT LB ¾"=50 FT LB

EPOXY ANCHOR:

CONCRETE TORQUE TEST VALUES:
½"=30 FT LB
(CONCRETE TENSION TEST VALUES TO BE DETERMINED AS NEEDED. A RFI WILL BE ISSUED IF NEEDED DURING CONSTRUCTION TO ESTABLISH THE REQUIRED TENSION TEST VALUES)

STRUCTURAL STEEL NOTES

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2016 AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2022 CBC.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_Y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE C (F_Y=50,000 PSI FOR RECT HSS & F_Y=46,000 PSI FOR ROUND HSS PER AISC MANUAL TABLE 2-4) ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_Y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES UNLESS OTHERWISE NOTED AND SHALL CONFORM TO AISC & AWS D1.4. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. HIGH STRENGTH BOLTS SHALL BE GALVANIZED ASTM F3125/F3125M GRADE A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
6. HIGH STRENGTH BOLT NUTS SHALL BE ASTM A563/A563M AND WASHERS SHALL BE ASTM F436/ F436M.
7. THREADED RODS SHALL BE ASTM F1554, GR 36 U.O.N. BOLTED CONNECTIONS SHALL BE BEARING TYPE.
8. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOT DIPPED GALVANIZED WASHERS.
9. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED.
10. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
11. AT ALL WEB STIFFENER PLATES LEAVE ¾"ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.
12. U-BOLTS AT ANTENNA & RRU MOUNT TO BE GALVANIZED SAE J429, GRADE 2 WITH J995 NUTS U.O.N.
13. ALL STRUT MEMBERS USED IN EXTERIOR APPLICATIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 OR ASTM A153.
14. ALL STAINLESS STEEL BOLTED CONNECTIONS SHALL BE ASTM F593-17 ALLOY GROUP 1 OR 2 AND STAINLESS STEEL NUTS SHALL BE ASTM F594-09 (2015).

TRENCHING NOTES

1. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.
3. RESTORE GRADE TO ORIGINAL CONDITION OR BETTER.
4. RETURN FILL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM STANDARDS.
5. RESTORE CUT CONCRETE OR ASPHALT TO ORIGINAL CONDITION OR BETTER.

At all services & grounding trenches, provide " WARNING" tape at 12" below grade.

CALL "CALL BEFORE YOU DIG" 811
NATIONWIDE UNDERGROUND SERVICE ALERT

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

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

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

T-1.2

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.

2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS $1mWcm^2$ AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS $5mWcm^2$

3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT TO THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH STRIPING.

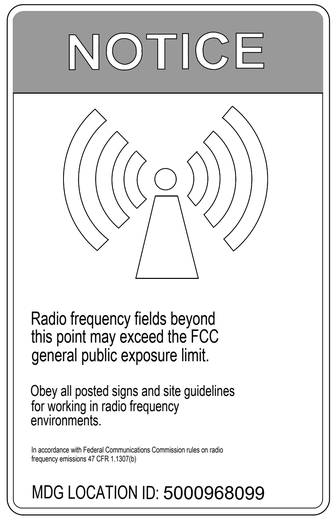
6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE VERIZON WIRELESS'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.

8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.



1 TYPICAL ADDRESS SIGN DETAIL (@ LEASE AREA ACCESS DOOR)



2 TYPICAL CAUTION SIGN

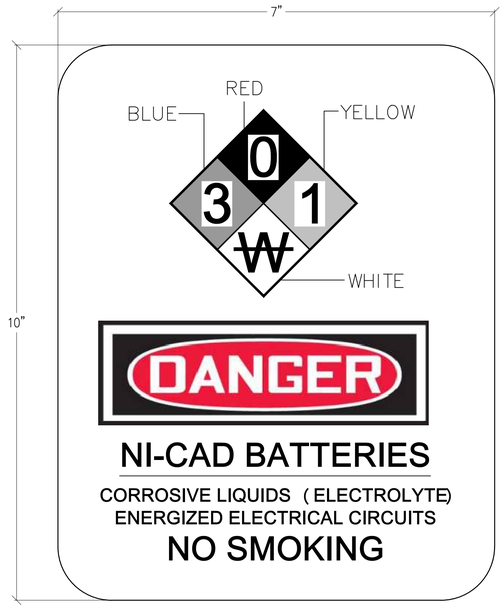
NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.



3 TYPICAL HAZARD SIGN



4 TYPICAL HAZARD SIGN



5 BATTERY SIGN

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

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SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:

T-1.3

DATE OF SURVEY: 07-08-25

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

LOCATED IN THE COUNTY OF MENDOCINO, 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 06045C1750G DATED 07/18/2017.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.93' FROM ELEVATIONS SHOWN.

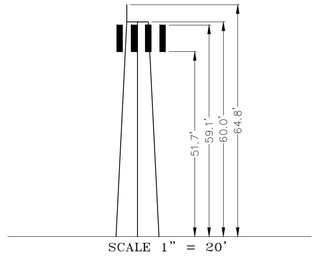
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ASSESSOR'S PARCEL NUMBER: 133-110-27

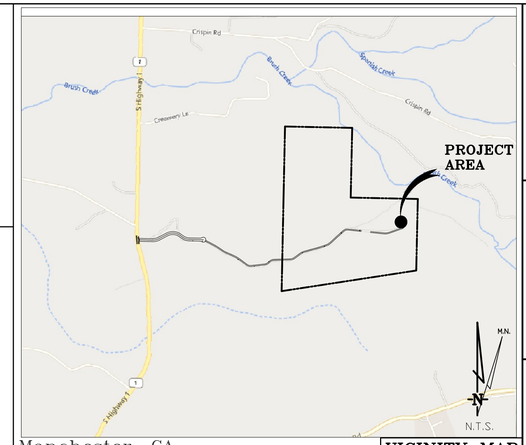
LANDLORD(S): US CELLULAR
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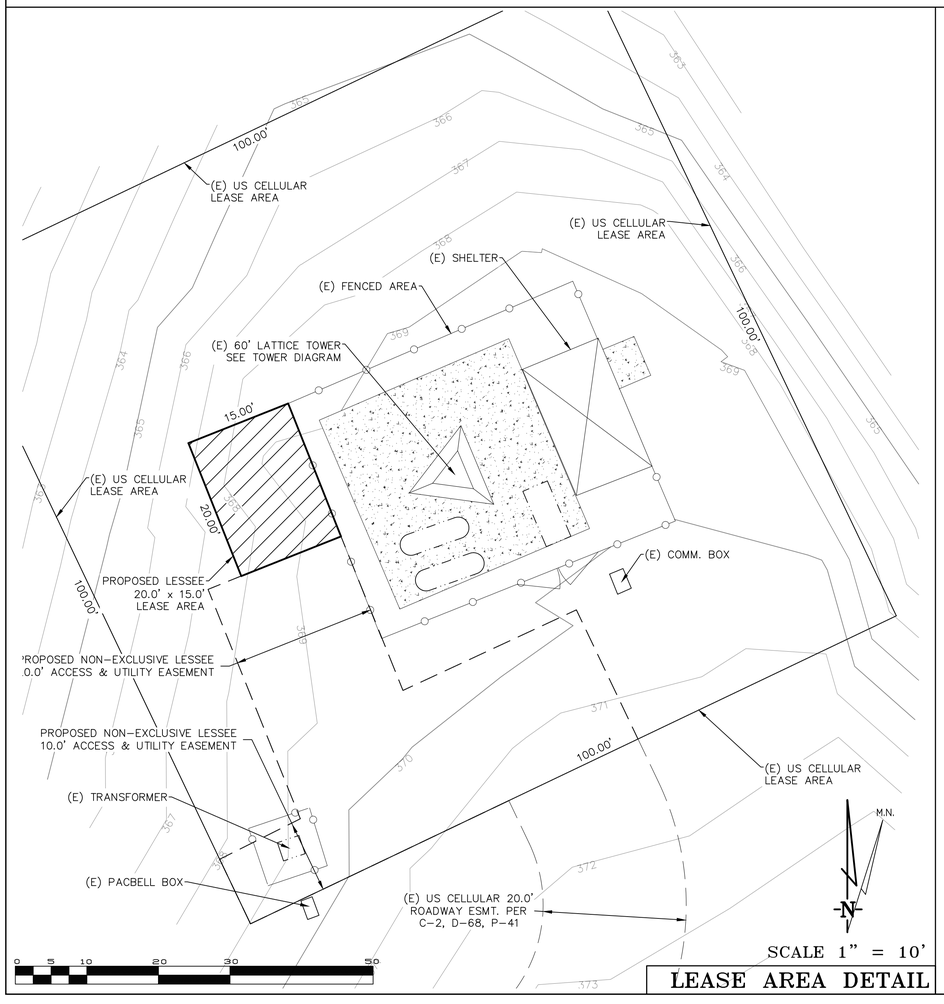


SCALE 1" = 20'



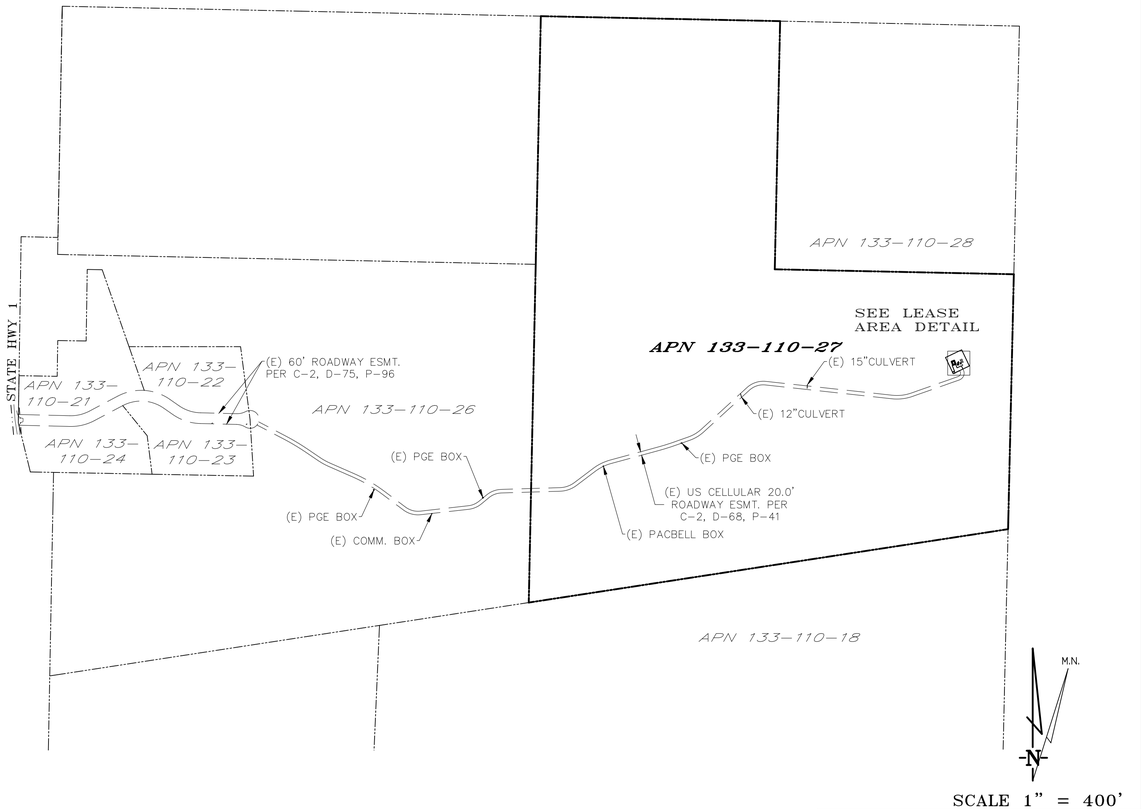
Manchester, CA

VICINITY MAP



SCALE 1" = 10'

LEASE AREA DETAIL



SCALE 1" = 400'

OVERALL PROJECT AREA

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

Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1228 HIGH STREET
AUBURN, CALIFORNIA 95603
phone: (530) 885-0428
fax: (530) 823-1309

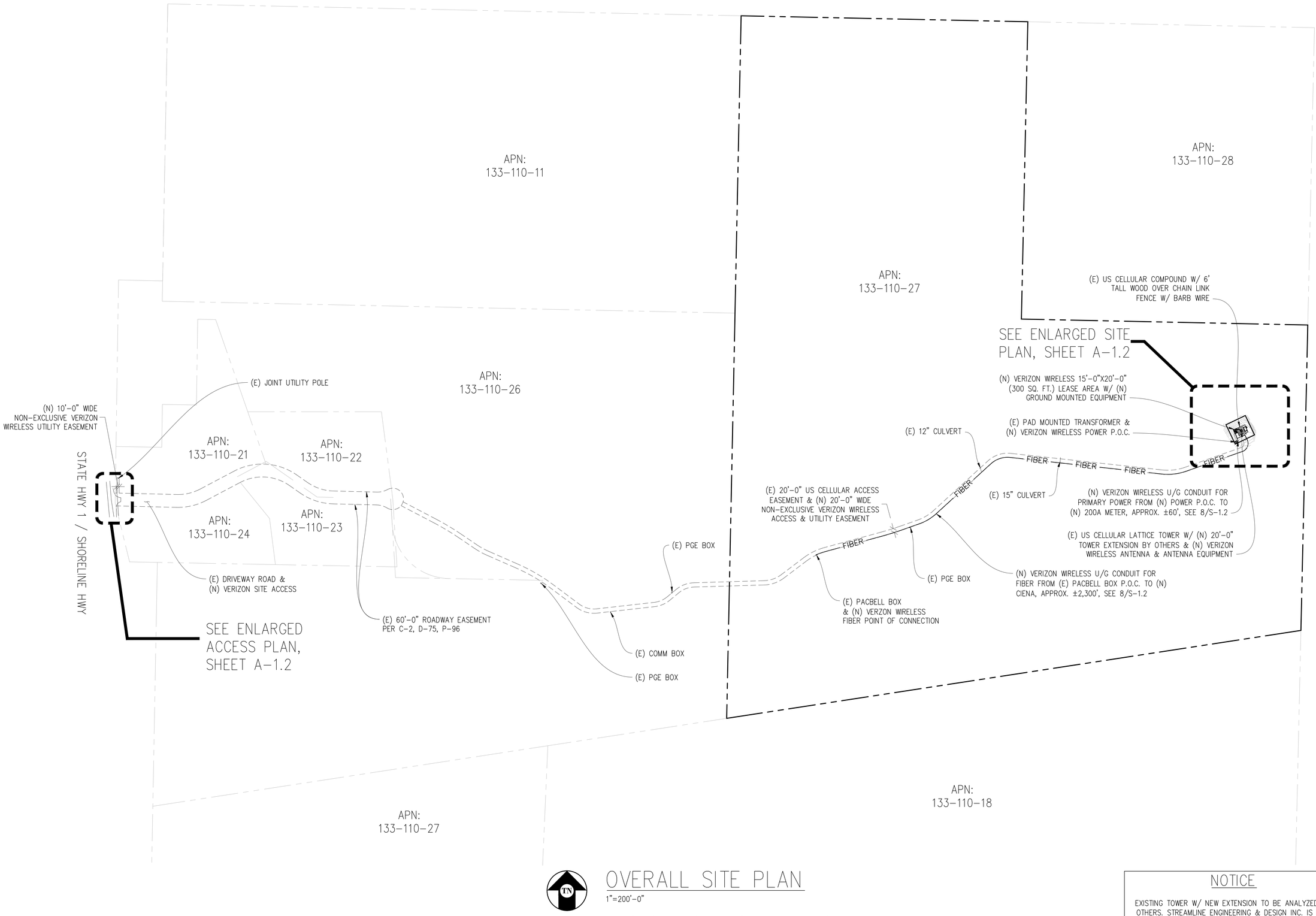
verizon/

Stonetta (A)
20001 State Highway 1
Manchester, CA 95459

PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS		
07-16-25	Preliminary Drawing	DG
08-12-25	rev. lease/esmts	DG

Sheet
C-1



OVERALL SITE PLAN

1"=200'-0"

0 100' 200' 400' 600' 1,000'

NOTICE

EXISTING TOWER W/ NEW EXTENSION TO BE ANALYZED BY OTHERS. STREAMLINE ENGINEERING & DESIGN INC. IS NOT RESPONSIBLE FOR THE EVALUATION OF THE EXISTING TOWER W/ NEW EXTENSION, BASE PLATE, ANCHOR BOLTS, FOUNDATION OR ANTENNA/RRU MOUNT FRAMING & CONNECTIONS FOR THE EXISTING AND NEW LOADING CONDITIONS.

Issued For:

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20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

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COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
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DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
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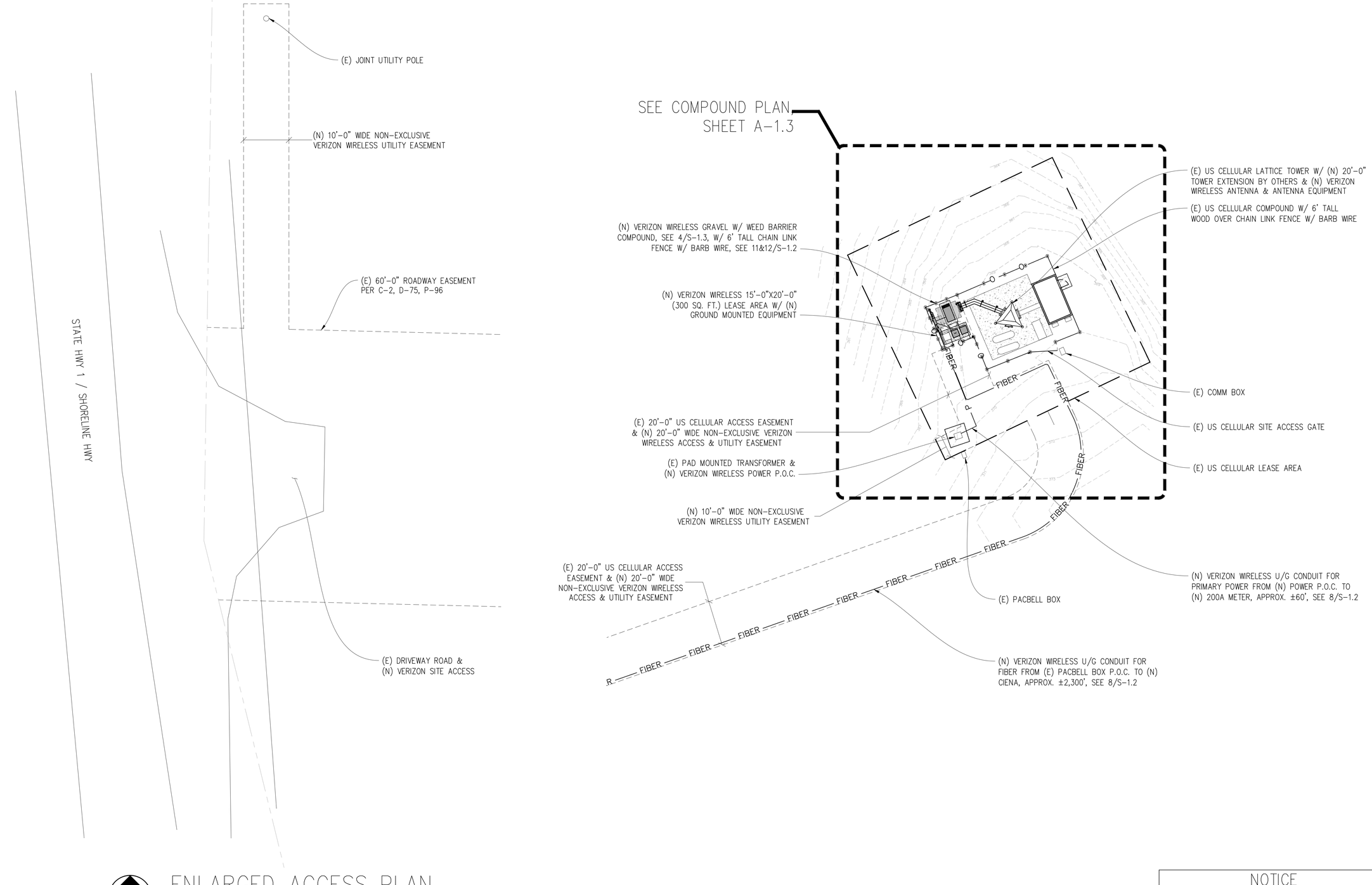
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SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

A-1.1



ENLARGED ACCESS PLAN

1"=10'-0"

0 5' 10' 20' 30' 50'

ENLARGED SITE PLAN

1"=20'-0"

0 10' 20' 40' 60' 100'

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3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

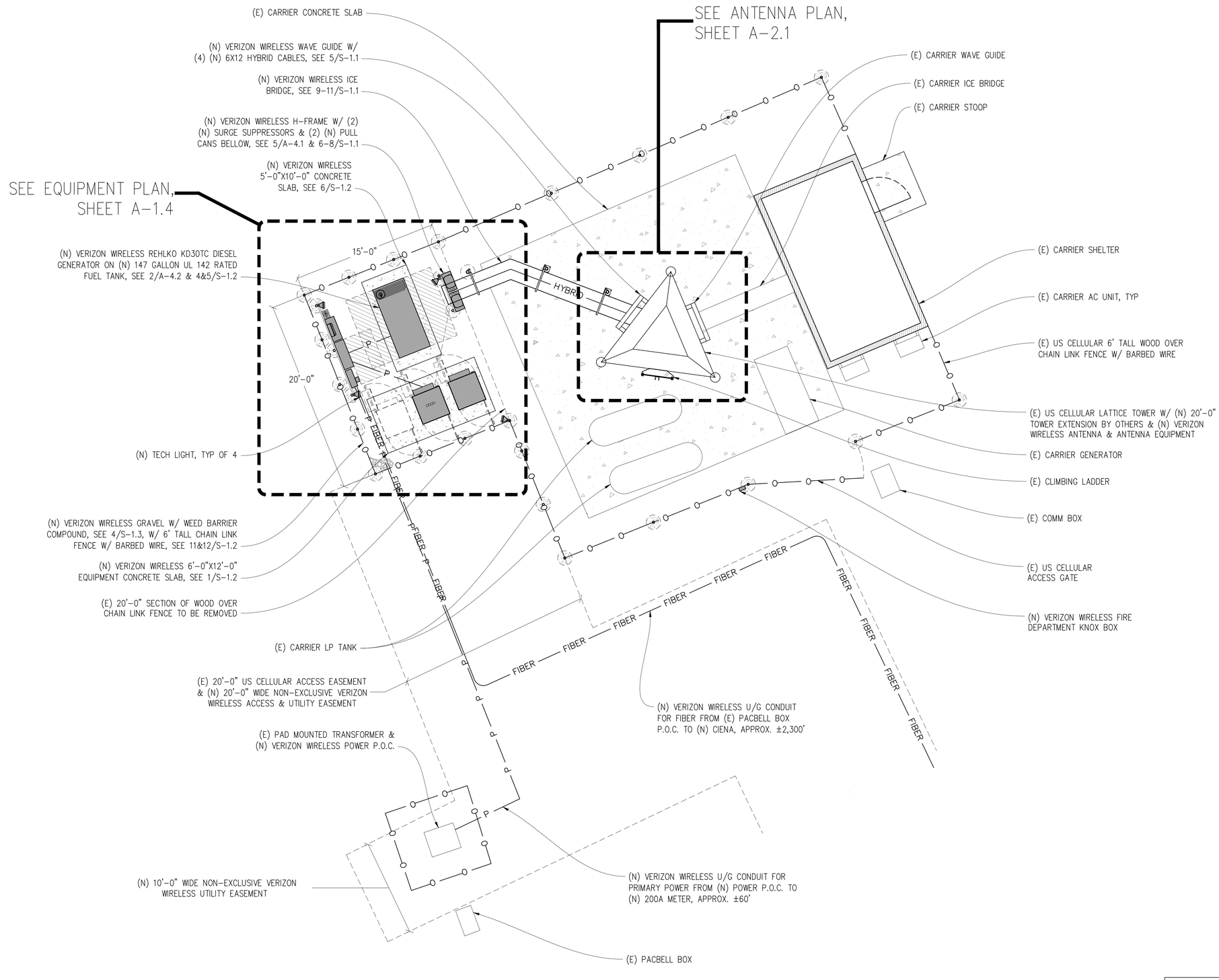
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SHEET TITLE:

ENLARGED SITE PLANS

SHEET NUMBER:

A-1.2



COMPOUND PLAN

1/4"=1'-0"

0 1' 2' 4' 6' 10' 14' 20'

NOTICE

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STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
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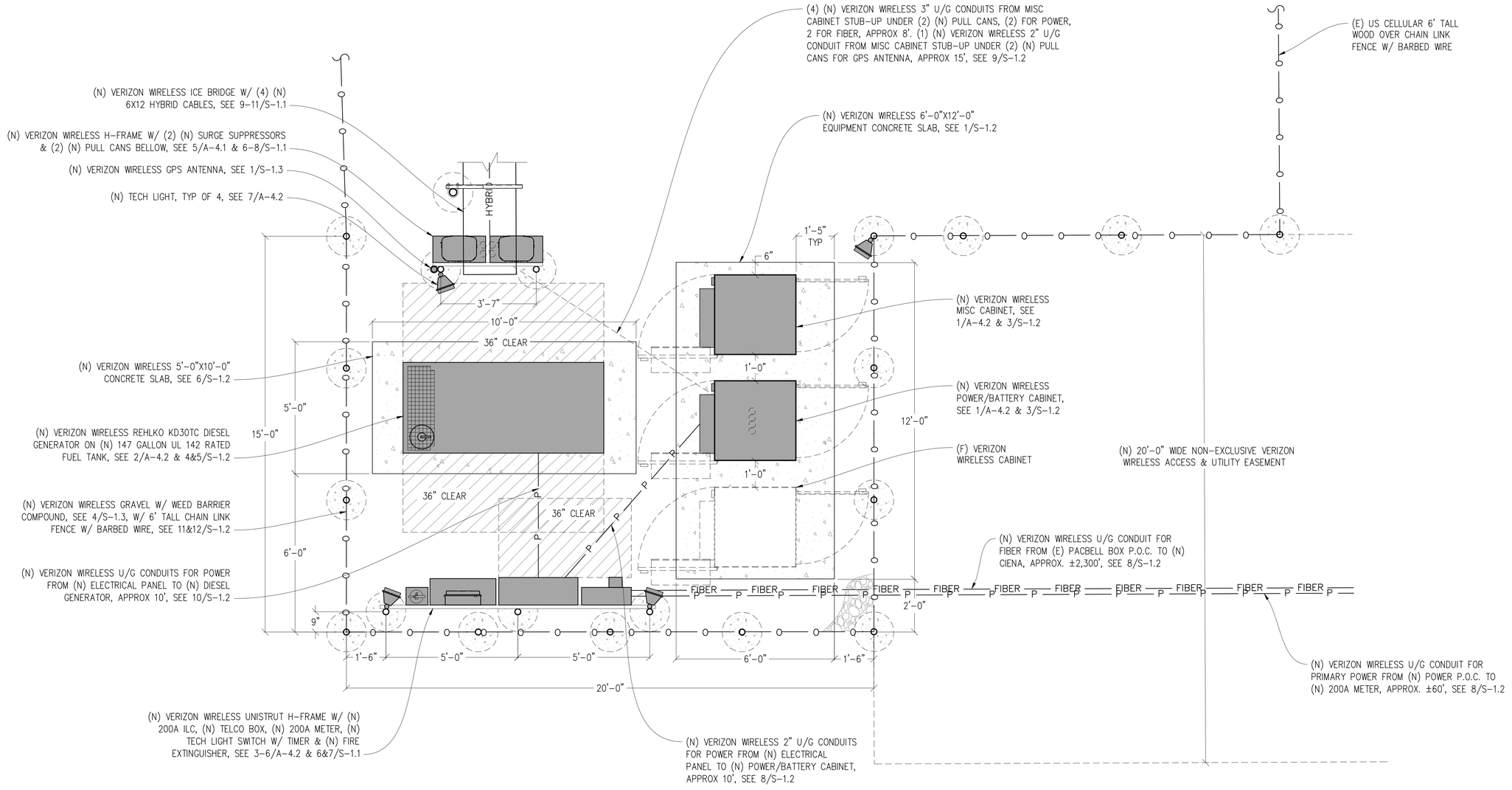
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SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER:

A-1.3



EQUIPMENT PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

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SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER:

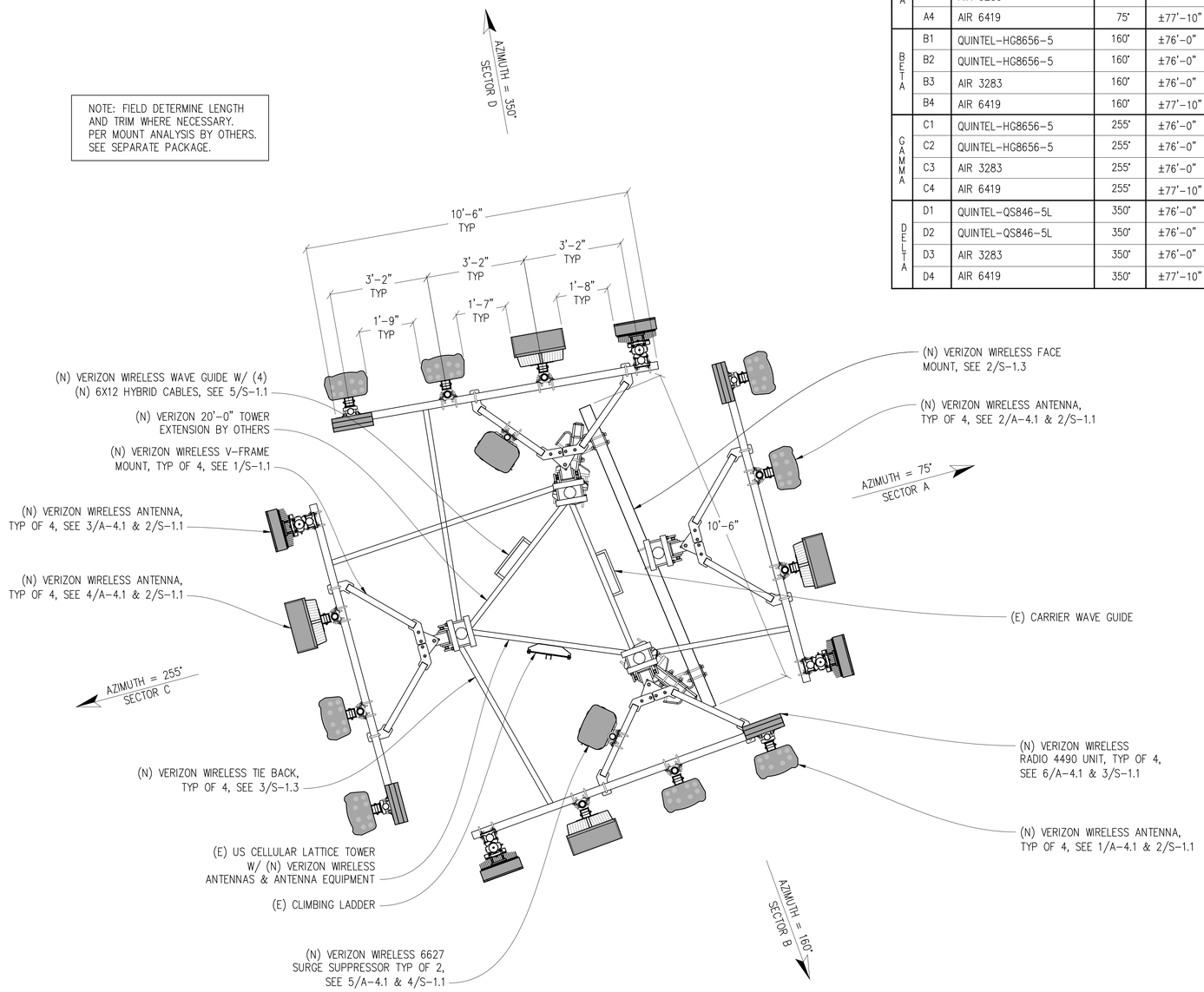
A-1.4

(N) RF 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	QUINTEL-QS846-5L	75°	±76'-0"	(1) 4490	SHARED	–	SHARED
	A2	QUINTEL-QS846-5L	75°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	A3	AIR 3283	75°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	A4	AIR 6419	75°	±77'-10"	INTEGRATED	SHARED	–	SHARED
BETA	B1	QUINTEL-HG8656-5	160°	±76'-0"	(1) 4490	SHARED	–	SHARED
	B2	QUINTEL-HG8656-5	160°	±76'-0"	INTEGRATED	2	±120	(1) 6627
	B3	AIR 3283	160°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	B4	AIR 6419	160°	±77'-10"	INTEGRATED	SHARED	–	SHARED
GAMMA	C1	QUINTEL-HG8656-5	255°	±76'-0"	(1) 4490	SHARED	–	SHARED
	C2	QUINTEL-HG8656-5	255°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	C3	AIR 3283	255°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	C4	AIR 6419	255°	±77'-10"	INTEGRATED	SHARED	–	SHARED
DELTA	D1	QUINTEL-QS846-5L	350°	±76'-0"	(1) 4490	SHARED	–	SHARED
	D2	QUINTEL-QS846-5L	350°	±76'-0"	INTEGRATED	2	±120	(1) 6627
	D3	AIR 3283	350°	±76'-0"	INTEGRATED	SHARED	–	SHARED
	D4	AIR 6419	350°	±77'-10"	INTEGRATED	SHARED	–	SHARED

RFDS DATE: 03/04/25

NOTE: FIELD DETERMINE LENGTH AND TRIM WHERE NECESSARY. PER MOUNT ANALYSIS BY OTHERS. SEE SEPARATE PACKAGE.



ANTENNA PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

NOTE:

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MANCHESTER, CA 95459

PREPARED FOR

verizon

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WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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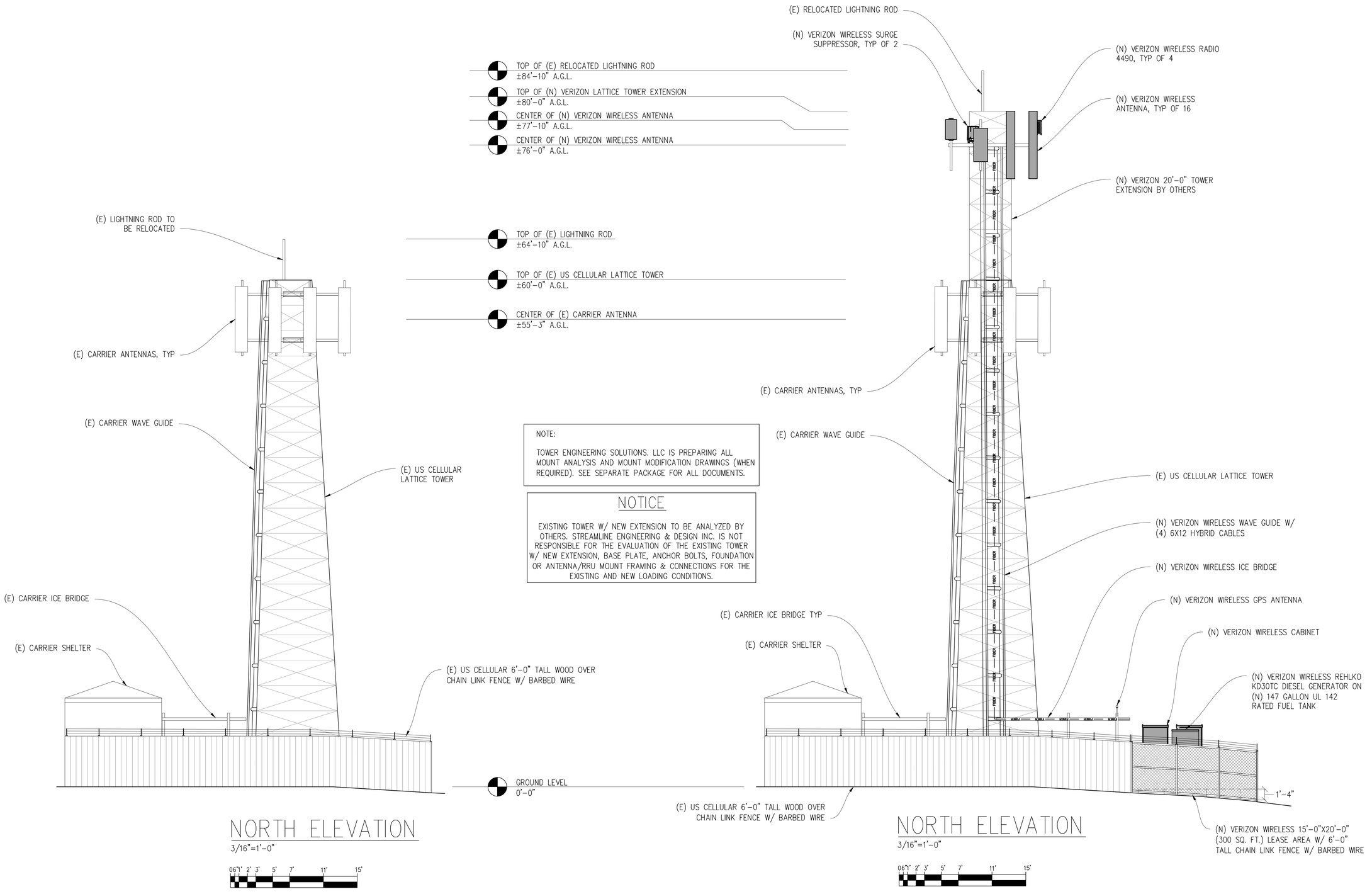
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SHEET TITLE:

ANTENNA PLAN

SHEET NUMBER:

A-2.1



NORTH ELEVATION
3/16"=1'-0"

0 6" 1' 2' 3' 5' 7' 11' 15'

NORTH ELEVATION
3/16"=1'-0"

0 6" 1' 2' 3' 5' 7' 11' 15'

Issued For:

STORNETTA

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PREPARED FOR

verizon

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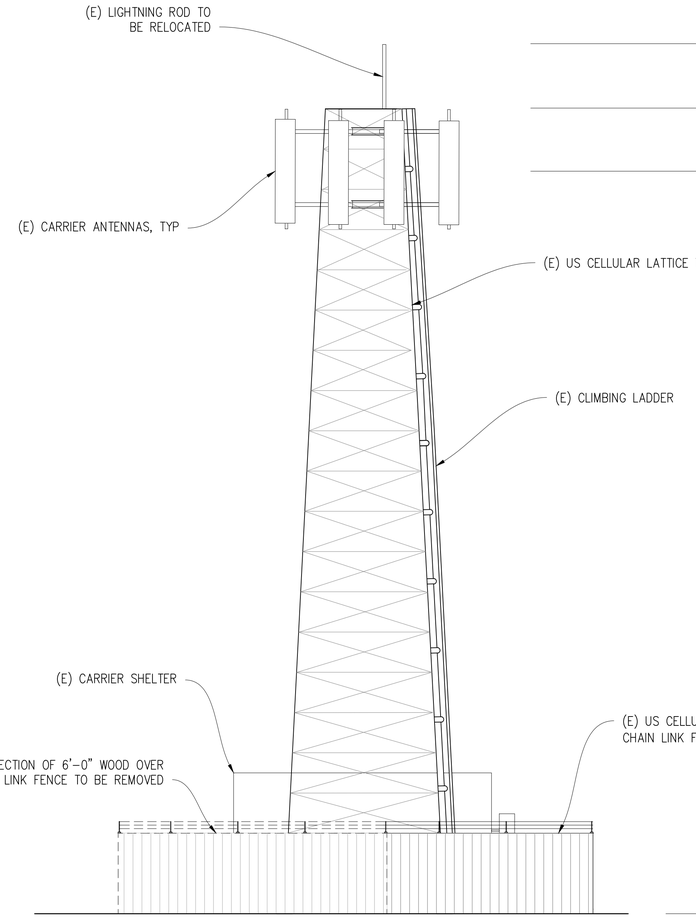
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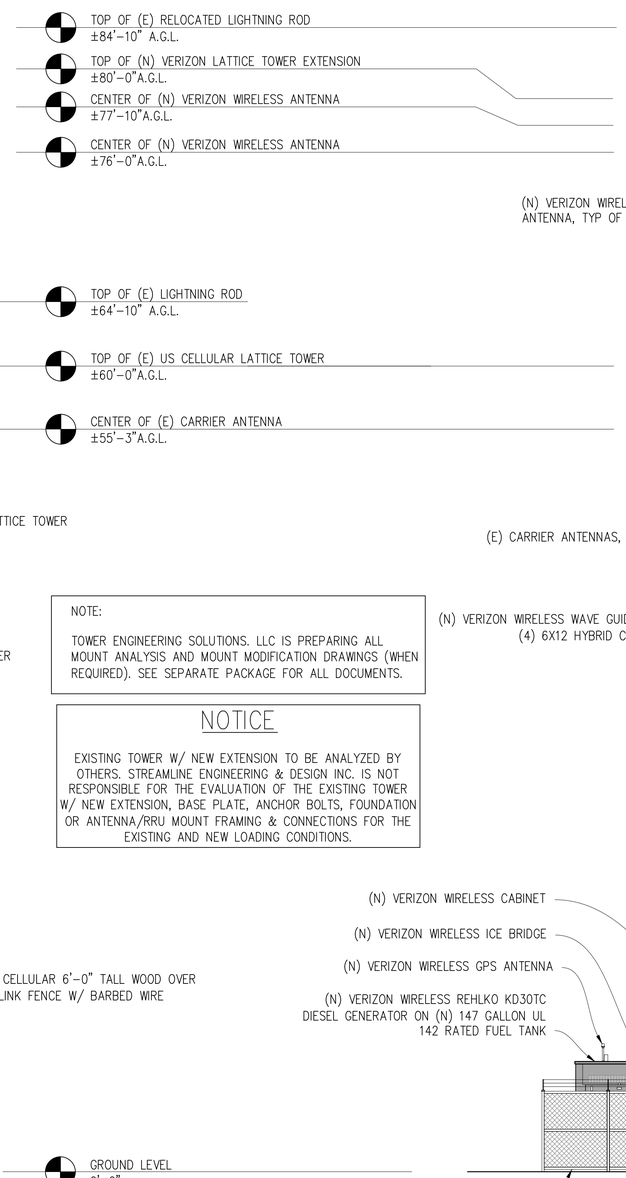
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-3.1





NOTE:

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WEST ELEVATION

3/16"=1'-0"

0 6" 1' 2' 3' 5' 7' 11' 15'

WEST ELEVATION

3/16"=1'-0"

0 6" 1' 2' 3' 5' 7' 11' 15'

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MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

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MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
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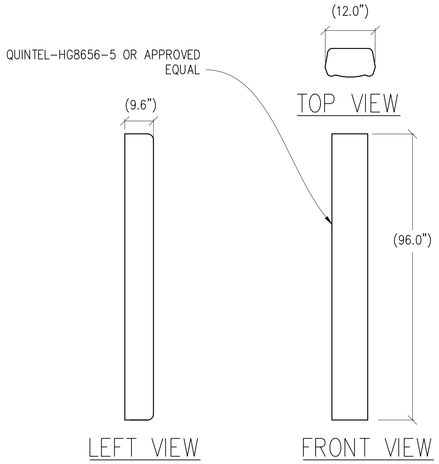
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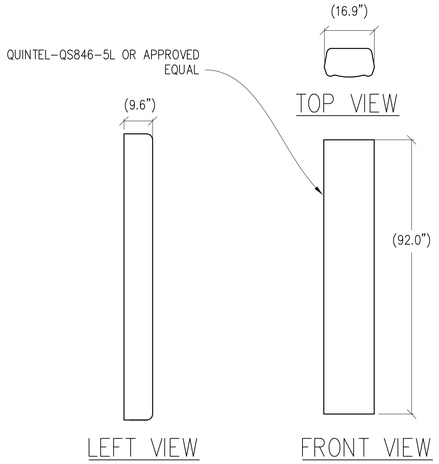
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SHEET NUMBER:

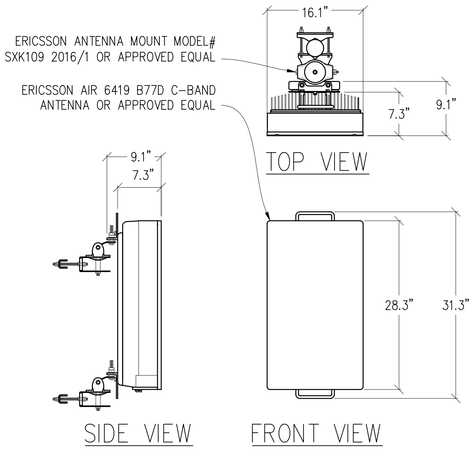
A-3.2



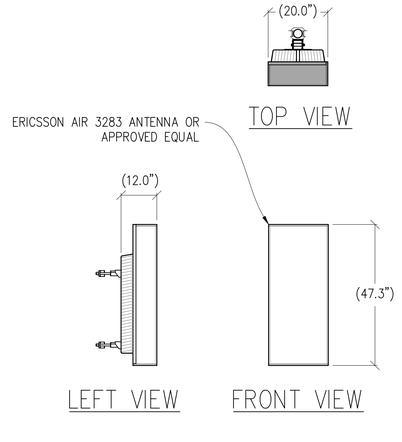
1 ANTENNA DETAIL
½"=1' MAX WEIGHT: 84.6 LBS



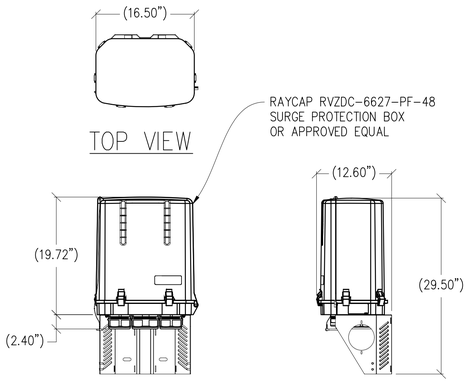
2 ANTENNA DETAIL
½"=1' MAX WEIGHT: 84.6 LBS



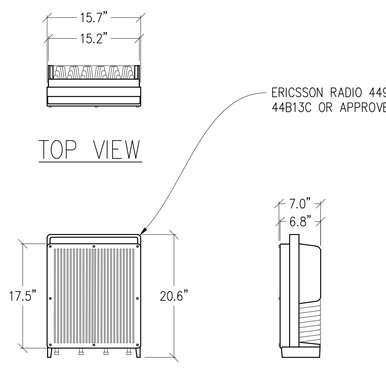
3 ANTENNA DETAIL
1"=1'-0" MAX WEIGHT: 64 LBS



4 ANTENNA DETAIL
½"=1'-0" WEIGHT: 110 LBS



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



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

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PREPARED FOR

verizon

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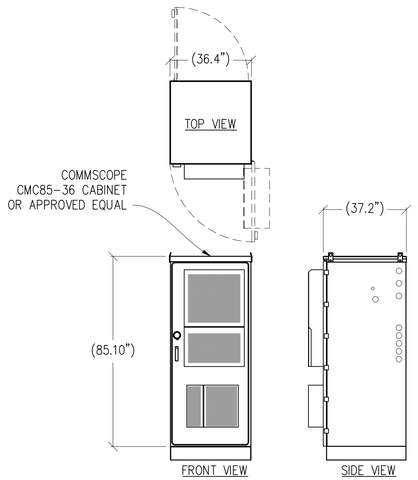
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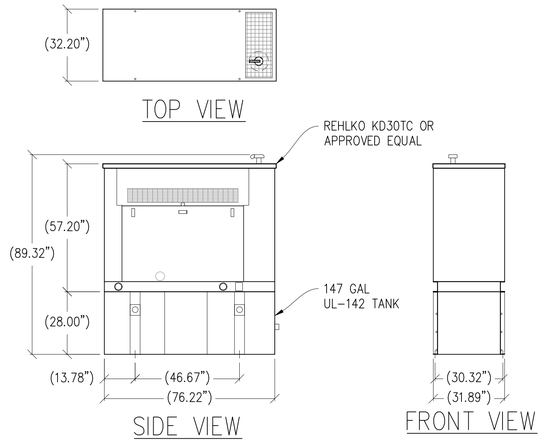
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A-4.1



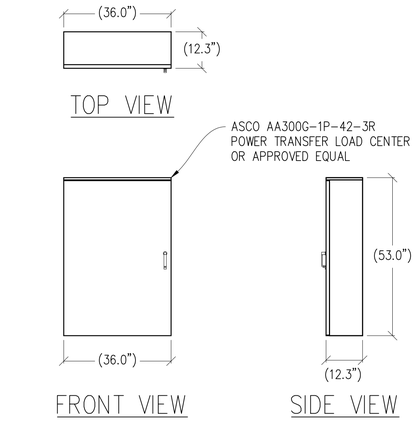
1 CABINET DETAIL

3/8"=1'-0" MAX WEIGHT: 2352 LBS



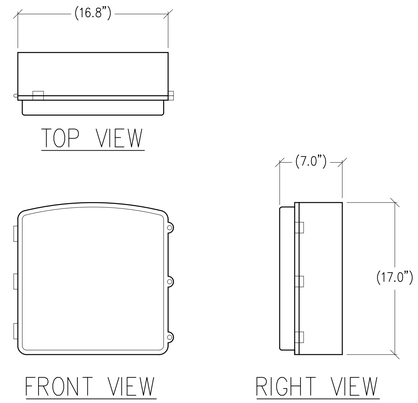
2 GENERATOR DETAIL

3/8"=1'-0" MAX FULL WEIGHT: 4,285 LBS



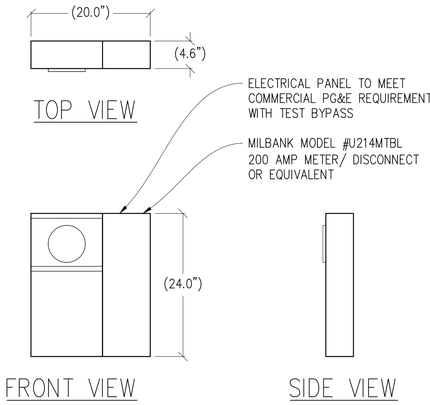
3 ILC CABINET DETAIL

1/2"=1'-0" MAX WEIGHT: 210 LBS



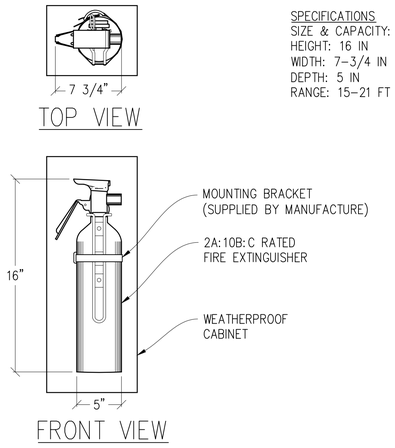
4 CN 3931 DETAIL

1 1/2"=1'-0" MAX WEIGHT: 28.6 LBS



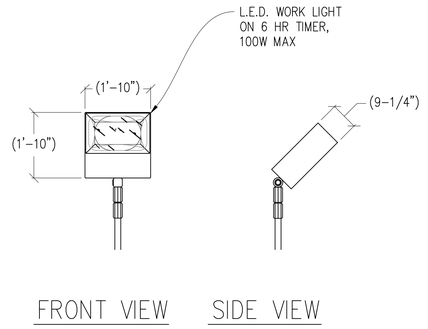
5 METER DETAIL

1"=1'-0"



6 FIRE EXTINGUISHER DETAIL

N.T.S.



7 TECH LIGHT DETAIL

1/2"=1'-0"

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Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

A-4.2

saft

T-210 REV A

P/N: 80-94890-02

Tel.X-Plus 180 (5x8 Cell Block) Environmental Overview



Change History

Rev.	Description of Changes	By	Date
-	Initial creation, sections drafted	HBO	09/27/2021
A	Edited and released	HBO	10/04/2021

Section 5- Specifications and Design Standards

Conforms with quality, safety, and environmental standards

Meets the highest international standards, including:

Electrical and performances
- IEC 60623 compliant– Secondary cells and batteries containing alkaline or other non-acid electrolytes – vented nickel-cadmium prismatic rechargeable single cell
- Telcordia GR-3020 compliant – Nickel-cadmium batteries in the outside plant
- NFC 15-100 compliant – Low-voltage electrical installations

Safety
- EN 50272-2/IEC 62485-2 –Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries
- UL 94 VO: UL standard for flammability safety of plastic materials for parts in devices and appliances testing
- UL 1989 – Safety for standby batteries certified by Intertek
- Telcordia – GR 63 NEBS level 3 – NEBS requirements for physical protection
- Telcordia – GR 1089 NEBS level 3 – Electromagnetic compatibility and electrical safety – generic criteria for network telecommunications equipment

Quality
- ISO 9001
- Saft world class continuous program

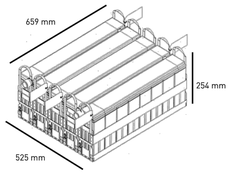
Environment
- Fully recyclable
  RoHS – Although batteries and accumulators are not within the scope of the RoHS directive, Saft has taken voluntary measures to ensure that the substances prohibited by RoHS are not present in the battery, except for the electro-chemical core
- REACH – The Saft Group has adopted internal procedures to ensure conformity with the European REACH (Registration, Evaluation, Authorization, and Restriction of Chemical Substances) Regulation

Section 1- Tel.X-Plus 180 Specifications

String Part Number: 80-94890-02

Dimensions per String:

Length	25.9 in	659 mm
Width	20.7 in	525 mm
Height	10.0 in	254 mm
Weight	365 lb	165.5 kg



String Nominal Capacity / Energy: 172 Ah / 8.2 kWh

Performance after 24-hour constant voltage float charge to 1.43VDC per cell at +25°C (+77°F) with a minimum charge current of 0.1 C_5 Amp* down to various end of discharge voltages

End of Discharge Voltage (VDC/Cell)	Discharge rate hours (Amps)											
	0.25	0.5	1	2	3	4	5	8	10	12	18	24
1.00	360.0	290.0	178.0	90.0	60.0	45.1	36.2	22.8	18.5	15.6	10.7	8.3
1.05	330.0	252.0	170.0	87.0	58.5	44.0	35.3	22.3	18.0	15.1	10.3	7.95
1.10	287.5	225.0	155.0**	84.0	57.5	43.1	34.5	21.6	17.4	14.7	10.1	7.75
1.14	225.0	180.0	130.0	80.0	55.0	41.4	33.2	20.9	16.9	14.2	9.7	7.5

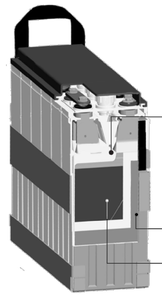
End of Discharge Voltage (VDC/Cell)	Discharge rate hours (Watts)											
	0.25	0.5	1	2	3	4	5	8	10	12	18	24
1.00	349.2	308.8	198.0	104.0	70.4	53.0	42.5	26.8	21.8	18.4	12.7	9.9
1.05	336.1	271.3	190.0	101.0	68.8	51.8	41.6	26.3	21.3	17.9	12.3	9.5
1.10	306.7	244.4	174.0**	98.0	67.8	50.9	40.8	25.6	20.7	17.4	12.0	9.3
1.14	248.8	204.1	147.0	94.0	65.2	49.0	39.4	24.8	20.1	16.9	11.7	9.0

* 0.1 C_5 Amp for TLX+180 equates to 17.2Amps
** Derating factor for 1-hour discharge rate at +5°C (+41°F) to 1.1VDC/cell is 7.8%
Power cable selection: The selection of power cables used within the installation of Saft Batteries is a function of:
1- Installation location: dry, damp, or wet (as defined by the NEC code)
2- Maximum ambient operating temperature
3- Maximum sustained current (amperage) applied during charge or discharge
Follow standards mandated by the application such as GR347

Section 2- Metal and Electrolyte Calculations

Cadmium metal *(Weight per String)*	65.2 lb	29.57 kg
Nickel metal *(Weight per String)*	64.8 lb	29.39 kg
Cobalt metal *(Weight per String)*	6.0 lb	2.72 kg
Cadmium metal %	17.62%	
Nickel metal %	17.51%	
Cobalt metal %	1.62%	
Electrolyte %	23.9%	
Other Materials % *(Metal Connectors, Plastic, etc.)*	<40%	

Electrolyte Solution (bound and free) pounds per String	87.2 lb
Electrolyte Solution (bound and free) gallons per String	8.90 gallons



Electrolyte inside the cells is a water-based solution of 30% potassium hydroxide. Highly conductive, it remains liquid down to-40°C (-40°F).

The negative plate uses cadmium active mass to provide useful capacity.

The positive plate uses nickel active mass to provide useful capacity.

Section 3- Tel.X- Plus 180 Gassing

Op. type	VPC	T (°C / °F)	H_2 per cell (l/h)	H_2 per 40-cell string (l/h)	H_2(cfm x 10^{-3} X C8)	H_2(cfm x 10^{-3} X C8) per 40-cell string
Floating	1.45	+25 / +77	0.0000240	0.00096	0.00008	0.00328
Floating	1.45	+45 / +113	0.0013100	0.05240	0.00448	0.17931
Floating	1.45	+60 / +140	0.0102200	0.40880	0.03497	1.39890

- During normal operation, hydrogen gas, oxygen gas, and water vapor are exhausted through the cell vent. Exhausted gases result in the electrolyte's water consumption.
- Gassing from electrolysis occurs mainly during overcharging and, to a lesser degree, during float charging. It will not occur during battery storage, normal discharging, or during the early re-charging stage (cell voltage must rise above 1.23 VDC for electrolysis to take place).
- During overcharging, electrolysis occurs with a fixed stoichiometry rate of 1 cm^3 of water consumed for every 3 Ah of overcharge. For every 1 cm^3 of water electrolyzed and exhausted, approximately 690 cm^3 of oxygen is generated on the positive electrodes and 1380 cm^3 of hydrogen on negative electrodes.

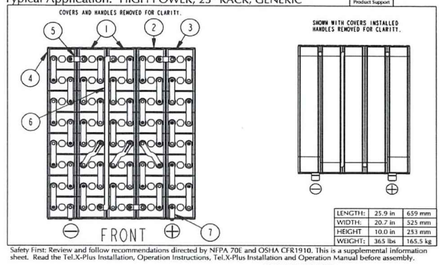
Section 4- Short Circuit

A battery's short circuit current is dependent on its state of charge and internal temperature.
- A fully charged Tel.X-Plus battery string can deliver a short circuit current in excess of 10 C_5A (i.e.: a 172 Ah Tel.X-Plus battery string can generate a short circuit current of 1720 Amps).
- Short circuit currents through an electrical conductor of any kind are high enough to melt metal and plastic. It is therefore important to your safety that all conductive jewelry or alike (rings, watches, bracelets, etc.) are removed before installing a battery.

saft

String Instruction Sheet 80-94890-02
Tel.X-Plus Ni-Cd Battery
Typical Application: HIGH POWER, 23" RACK, GENERIC

Product Support



Safety First: Review and follow recommendations directed by NFPA 70E and OSHA CFR1910. This is a supplemental information sheet. Read the Tel.X-Plus Installation, Operation Instructions, Tel.X-Plus Installation and Operation Manual before assembly.

PARTS LIST

ITEM	CHK	PART No.	DESCRIPTION	QTY
1		80-04788-08	BLOCK TLX+180 8-CELL	2
2		80-04788-18	BLOCK TLX+180 8-CELL	1
3		80-04788-28	BLOCK TLX+180 8-CELL	1
4		80-04788-38	BLOCK TLX+180 8-CELL	1
5		80-04979-10	BUSBAR INTERBLOCK W/TUBING (TLX)	3
6		80-04807-01	CONNECTOR INTERBLOCK TLX180-8 W/POSY	1
7		80-04698-14	KIT ADAPTER TERMINAL FRT TLX180	1
8		80-03928-40	KIT INSTALLATION Tel.X-Plus	1

INSTALLATION KIT (not shown)

CHK	PART No.	DESCRIPTION	QTY
	80-03541-02	LABEL - TLX + 40-CELL, TCV DISABLED	1
	80-04283-01	LABELS NUMERICAL	1
	025544-001	CORROSION INHIBITOR	1
	025583-000	SCREW, M6 X 1.0, 10MM, SS	3
	100110	WASHER SPRING M6 AC	3
	22008	INSTALLATION AND OPERATION SHEET	1

SPECIAL INSTRUCTIONS:
1. Scan QR code for Product Support Document & Battery Installation video.
2. Prior to assembly, use the CHK column in the parts list to assure all parts & kit parts have been received.
3. ● Indicates positive terminal.
4. Use "Labels numerical" provided to identify each cell within battery string. Starting with Battery string positive end as cell number one, subsequently serialize the cells following the electrical path resulting in numbering battery string negative end cell as #40.
5. Measure OCV and record using I/O sheet.
6. Use corrosion preventer (No-Ox) provided to lightly coat exposed metal at all terminal and lug connections.
7. Torque value: 10.8 ± .5 Nm (96 ± 4 in/lb) .
8. After an electrical connection is made, reinstall block cover.
9. Affix "label -57.2 VDC & TCV disabled" labels onto or near to battery string and rectifier to inform that the float voltage should be set to 57.2 VDC and TCV should be disabled.

Saft America, Inc.
711 Gil Harbin Industrial Blvd
Valdosta Georgia, 31601 - USA
Tel: 1(229) 247 2331
Fax: (229) 247 8486

www.saftbatteries.com

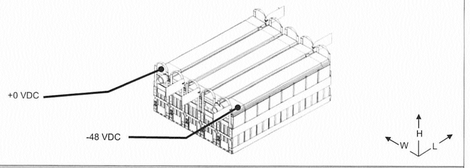
Doc. n° IO-80-94890-02
Revision: D Sheet 1 of 8
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TotalEnergies

Return to TOC

80-94890-02 Verizon

Type: TLX+180 (x40) | **C_n: 172 Amp-hrs.** | **$V_{Appl.}$: 48 VDC** | **Nom. Energy: 8.2 kWh**



STRING			
Type	Saft P/N	String Dimensions (W x L x H)	(525 x 659 x 254) mm (20.67 x 25.94 x 10.00) inches
Battery String	80-94890-02		
Installation Kit	80-03928-40	String Weight	165.5 kg 365.0 lb
Bus bar	80-03979-10		
Connector Interblock w/ tubing	80-04807-01		
Kit Adapter Terminal Frt. TLX180	80-04698-14		

BLOCKS / MODULES				
Type	Saft P/N	Qty	Block Dimensions (W x L x H)	Block Weight
TLX 180-8	80-04788-08	2	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-18	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-28	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-38	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb

CELL				
Type	Saft P/N	Qty	CLEI	CPR
TLX+180	80-03832-01	40	PWHYAM8TRA	212341

Return to TOC

CFC CHAPTER 12 COMPLIANCE

TOTAL = 2 STRINGS X 8.256 kWh/STRING = 16.51 kWh

(SINCE LESS THAN 70kWh OF CAPACITY, CFC CHAPTER 1207, TABLE 1207.1.1, SECTIONS 1207.1.2–1207.11.10 NOT APPLICABLE)

BATTERY INFORMATION (BATTERY CAPACITY DATA–48V STRINGS)

BATTERY MODEL	TOTAL # OF STRINGS INSTALLED	AMP HOURS PER STRING	TOTAL VOLTS PER STRING	TOTAL kWh = # OF STRINGS x AMP HOURS PER STRING x VOLTS PER STRING / 1000
SAFT TLX+180 80–94890–02	2	172Ah	48V	2 x 172Ah x 48V/1000 = 16.51kWh < 70kWh

BATTERY DATA CHART

NEW BATTERIES

BATTERY TYPE: SAFT TLX+180 (80–94890–02)
NUMBER OF STRINGS: 2
WEIGHT: 365 LB/STRING X 2 = 730 LB
TOTAL KWH: 172AH X 48V X 2 / 1000 = 16.51 KWH

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

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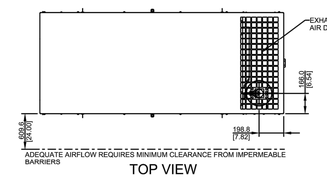
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BATTERY SPECIFICATIONS

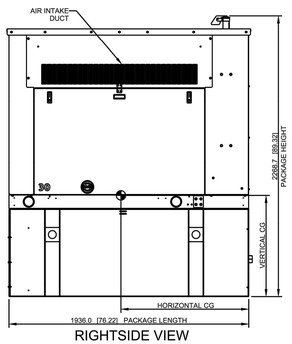
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A-5.1

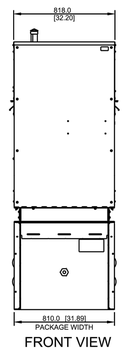
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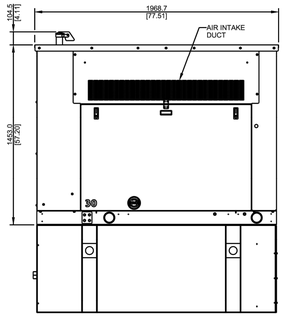
TOP VIEW



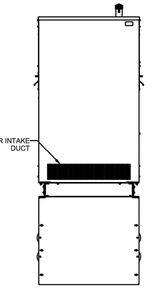
RIGHTSIDE VIEW



FRONT VIEW



LEFTSIDE VIEW



REAR VIEW

NOTE:
1.) DIMENSIONS IN [ ] ARE ENGLISH UNIT EQUIVALENTS.
2.) 6 AMP BATTERY CHARGER.
3.) 120VAC ENGINE BLOCK HEATER.
4.) 120VAC BATTERY HEATER.
5.) GENERATOR MUST BE GROUNDED.
6.) MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
7.) MUST ALLOW FREE FLOW OF INTAKE AIR.
8.) BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
9.) SEE TABLE ON SHEET 3 FOR SUBBASE FUEL TANK CAPACITY.
10.) TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
11.) IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
12.) GENERATOR IS INSTALLED ON A UL-142 RATED DOUBLE WALL SUBBASE FUEL TANK.

REV.	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL. ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	(D-8) CLEARANCE NOTE UPDATED, (B-4)	
		881.0 REMOVED, SEE SHEET 3	JBZ

DO NOT SCALE.
THIS ASSEMBLY OR PART MUST COMPLY WITH PEP-RML-001. REFERENCE CAD MODEL FOR UNSPECIFIED DIMENSIONS.

rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ± 0.25, X.X ± 1.0, ANGLES ±0° 30' BEND ANGLES ± 1°, SURFACE FINISH: 3.2 MAX.

MAJOR 0 | 0
CRITICAL 0 | 0
THIRD ANGLE PROJECTION
CHARACTERISTICS COMPLY WITH KPS-80022

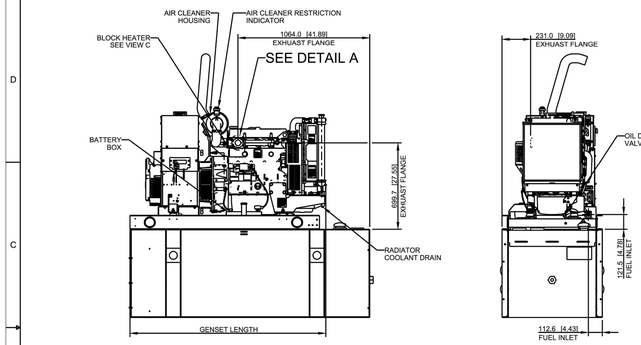
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DRAWN: PBG | DATE:
APPROVED: SEE PLM SYSTEM | 11MAR2024

TITLE: DIMENSION PRINT
DWG NO.: ADV-10037

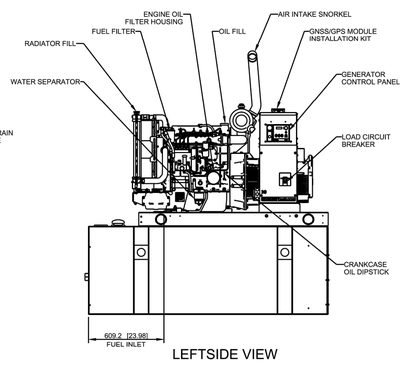
VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

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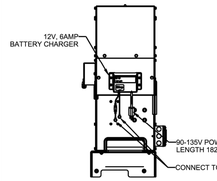


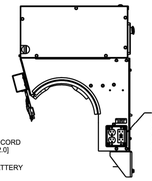
RIGHTSIDE VIEW

FRONT VIEW

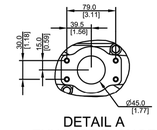


LEFTSIDE VIEW





SECTION B-B
BATTERY CHARGER
SCALE 0.08



DETAIL A
EXHAUST FLANGE
SCALE 0.25



VIEW C
BLOCK HEATER
SCALE 0.150

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL. ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	SEE SHEETS 1 & 3	JBZ

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rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ± 0.25, X.X ± 1.0, ANGLES ±0° 30' BEND ANGLES ± 1°, SURFACE FINISH: 3.2 MAX.

MAJOR 0 | 0
CRITICAL 0 | 0
THIRD ANGLE PROJECTION
CHARACTERISTICS COMPLY WITH KPS-80022

SCALE: 0.05 | SHEET SIZE: B | SHEET: 2 OF 3

DRAWN: PBG | DATE:
APPROVED: SEE PLM SYSTEM | 11MAR2024

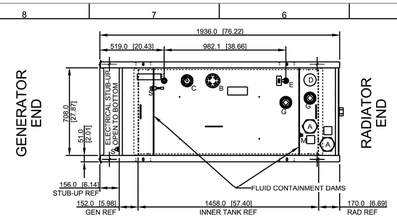
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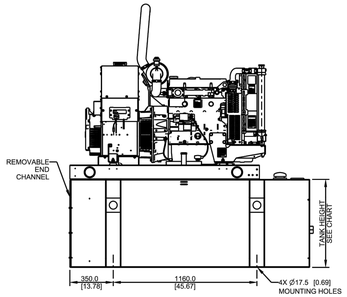
VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

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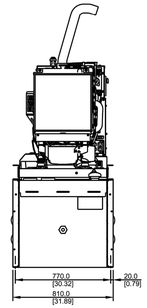
MODEL	TANK P/N	TANK HEIGHT	DESCIPTION	ASSY WEIGHT
30	10503026800-KA1	711.2 [28.00]	STANDARD TANK, 147 GAL	465 KG [1005 LBS]

TANK FITTINGS:
A. 3" NPT EMERGENCY VENT FITTING PER NFPA 30 WITH VENT CAPS (QTY 2).
B. 2" NPT WATER TIGHT FUEL FILL FITTING WITH LOCKABLE CAP AND 3" RISER.
C. 2" NPT FOR FUEL LEVEL SENDING UNIT WITH MECHANICAL INDICATOR NEEDLE.
D. 2" NPT NORMAL VENT FITTING WITH MUSHROOM VENT CAP AND 5" RISER.
E. 1/2" NPT FITTING FOR REMOVABLE ENGINE SUPPLY DIP TUBE (3/8" NPT FEMALE WITH CHECK & FIRE SAFETY VALVES AND LOCKOUT COVER).
F. 1/2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 1/2" NPT PIPE PLUG).
G. 2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 2" NPT PIPE PLUG) (QTY 2).
M.1/2" NPT BASIN DRAIN (INSTALL STEEL 1/2" NPT PIPE PLUG)
S. 1/2" NPT FITTING FOR ENGINE FLUID CONTAINMENT BASIN FLOAT SWITCH (QTY 2).





RIGHTSIDE VIEW



FRONT VIEW

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL. ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	(D-6) FLUID CONTAINMENT DAMS NOTE	
		ADDED, SEE SHEET 1.	JBZ

DO NOT SCALE.
THIS ASSEMBLY OR PART MUST COMPLY WITH PEP-RML-001. REFERENCE CAD MODEL FOR UNSPECIFIED DIMENSIONS.

rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ± 0.25, X.X ± 1.0, ANGLES ±0° 30' BEND ANGLES ± 1°, SURFACE FINISH: 3.2 MAX.

MAJOR 0 | 0
CRITICAL 0 | 0
THIRD ANGLE PROJECTION
CHARACTERISTICS COMPLY WITH KPS-80022

SCALE: 0.05 | SHEET SIZE: B | SHEET: 3 OF 3

DRAWN: PBG | DATE:
APPROVED: SEE PLM SYSTEM | 11MAR2024

TITLE: DIMENSION PRINT
DWG NO.: ADV-10037

VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

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KD30TC

60 HZ. DIESEL INDUSTRIAL GENERATOR SET
EMISSION DATA SHEET

ENGINE INFORMATION			
Model:	S4S-Y361KGBE	Bore, mm (in.)	94 (3.70)
Nameplate BHP @ 1800 RPM:	46.4	Stroke, mm (in.)	120 (4.72)
Type:	4-Cycle, 4 Cyl., Inline	Displacement, L (cu. In.)	3.331 (203)
Aspiration:	Naturally Aspirated		
Compression Ratio:	22:1	EPA Family:	SMVXL03.3AAK
		EPA Certificate:	SMVXL03.3AAK-012

PERFORMANCE DATA:	
Engine bkW @ 1800 RPM	34.6
Fuel Consumption (Lph) @ 100% Load (Standby)	9.8
Exhaust Gas Flow (m^3/min)	7.0
Exhaust Temperature (°C)	550

EXHAUST EMISSION DATA:	EPA D2 Cycle 5-mode Weighted
NMHC	0.10
CO2	754
NOx (Oxides of Nitrogen as NO_2)	6.63
CO (Carbon Monoxide)	0.50
PM (Particulate Matter)	0.26

Values are in g/kWh unless otherwise noted

TEST METHODS AND CONDITIONS

The emission data listed is measured from a laboratory test engine according to the test procedures of 40 CFR 89 or 40 CFR 1039, as applicable. The test engine is intended to represent nominal production hardware, and there is no guarantee that every production engine will have identical test results. Emission results may vary due to engine manufacturing tolerances, engine operating conditions, fuels used, alternate test methods, or other conditions.

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

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ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.2

Clay & Bailey Mfg. Co.

A CENTURY'S WORTH OF INNOVATION

367 Male Thread High Flow Emergency Vent for Aboveground Storage Tanks



367 HF

Features:

All Aluminum Construction is lightweight for easy handling and installation. Also, no rust issues from scratches or weathering. Buna-N O Ring provides a vapor resistant seal. Spring Actuated Vent assures accurate opening pressure. Pressure relief set at <0.5 PSI. Clay & Bailey vents can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

Part #	Size	Weight /lbs.
0367-03-30HF	3"	3
0367-03-40HF	4"	4
0367-03-50HF	5"	5
0367-03-60HF	6"	6
0367-03-80HF	8"	7

Airflow

Size	W/Screen	W/O Screen
3"	66,400 SCFH	71,750 SCFH
4"	114,800 SCFH	118,750 SCFH
5"	184,500 SCFH	200,250 SCFH
6"	237,000 SCFH	251,700 SCFH
8"	500,552 SCFH	556,539 SCFH

c UL US LISTED

Clay & Bailey emergency vents comply with various codes – Petroleum Equipment Institute PEI RP200; Underwriters Laboratories Inc. UL-142, UL-2085, UL-2244, UL-2583; Underwriters Laboratories of Canada ULC-S601; National Fire Protection Agency NFPA 30, NFPA 30A; American Petroleum Institute API 2000.

Patent# 8171955

10/2018

Clay & Bailey Mfg. Co.

A CENTURY'S WORTH OF INNOVATION

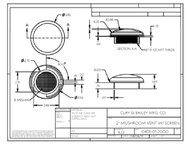
401
Mushroom Vent



401

Features:

Mushroom style free flow vent is made of cast iron with a 8 mesh galvanized screen. Domed vent top prevents tank contamination from entering vent lines. NPT thread is standard. Also available in galvanized. (Shown)



Cast iron Black

Part No.	Size	lbs	SCFH@ 2.5psi	A	B
0401-01-0750	3/4"	0.3	4,894	3/4"	1"
0401-01-1000	1"	0 5	8,711	1"	1 1/8"
0401-01-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-01-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-01-2000	2"	1.1	38,846	2"	1 11/16"
0401-01-4000	4"	2.5	54,873	4"	3"

Galvanized

Part No.	Size	lbs	2.5psi	A	B
0401-10-0750	3/4"	0.3	4,894	3/4"	1"
0401-10-1000	1"	0 5	8,711	1"	1 1/8"
0401-10-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-10-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-10-2000	2"	1.1	38,846	2"	1 11/16"
0401-10-4000	4"	2.5	54,873	4"	3"

Rochester Sensors
Engineering Innovative Solutions

Adjustable Liquid-Level Gauges

Applications

The 6500 Series Senior gauges are de signed for use in low pres sure tanks 0-25 psig [0-1,7Bar] containing diesel fuel, gasoline, fuel oil and lubricating oils.

Used in many ap pli ca tions such as con struc tion equip ment, sta tion ary gen er a tors, boats, farm equip ment and home heat ing.gauges may be easily converted remote output by simply installing the R3D replacement dial and plug-in Hall Effect sender module.

General Information & Features

The 6500 Series Adjustable Senior gauges are avail able in gear-action mod els for top mounting.

The standard float is nitrile rubber. The gauge is mount ed to a mating Se niorflange 2 1/2" bolt circle [63,5mm] using four 1/4"-28 x 9/16" long bolts. The gasket is Buna-N

Models #	Mounting	Dial, sender or Switch Data	Support Length "S"
6580-0151	Top	500250 `379 Senior direct-reading fractional dial	3"
6540-00090		5880502547P (0-90 Ohms)	3"
6540-00252		5AVHS03213P (240-30 Ohms)	3-5/8"



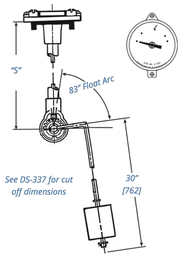
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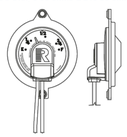
Manufacturing Worldwide

Rochester Sensors
Engineering Innovative Solutions

Direct reading gauge with 5002501379 dial



TwinSite® Dial, 0-90 ohms & 240-30 ohms



Parts #	Description	Ohms
588050254	Wire Leads	0-90
5AVHS03213P	Wire Leads	240-30

*General Specifications**

Accuracy
Accuracy depends upon proper gauge sizing. Senior dials ±7%, TwinSite® dials ±12%. Accuracy may be less depending upon tank shape. Accuracy may be less near full and empty. Accuracy may be less if tank is not level. This gauge is not to be used for filling. All accuracy estimates are expressed as a percent of full scale.

Temperature Range
-40°F to +158°F, -40°C to 70°C.

Humidity
Paint exposed portions of gauge, less dial, for marine applications.

Shock & Vibration
Suitable for mobile applications.

Power
0.5 watts maximum for TwinSite® versions.

Tank Pressure
Up to 25 psig [1,7 Bar]

Approvals
These direct indicating gauges are UL listed for flammable liquids. Some models UL recognized for marine service.

Note: For installation instructions see MS-501/502 (Mounting standards).

*Materials of Construction**

Head
Die cast aluminium.

Centershaft, Support Tube & Float Rod
Tempered aluminum.

Gears, Cross Stud & Bearings
Stainless Steel.

Drive Magnet
Alnico.

Gear Housing
Acetal plastic or aluminum.

Float
Nitrile rubber

Gasket
Buna-N, 0015-00004 or 0015-00079

Direct Reading Dial
Aluminum with polycarbonate crystal, hermetically sealed.

Side Reading Dial
Aluminum with polycarbonate crystal, hermetically sealed.

TwinSite® Sender
Polyamide.

Mounting Bolts
Zinc-plated steel ¼ "-28 x 9/16" long.

When ordering, specify:

1. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Ohm range on Twinsite® versions.
5. Preferred switch on switch gauges, if other than standard.
6. Any listed options or preferences.

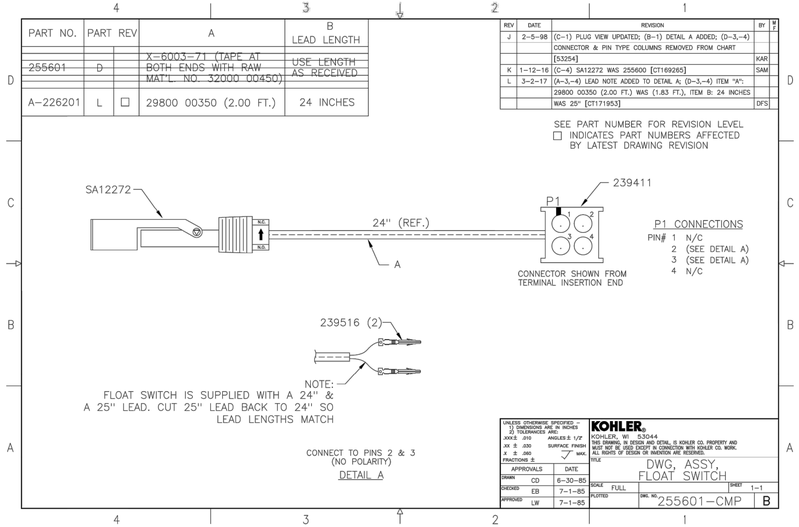
Note: Materials and specifications are subjected to change without notice. Pressure ratings subject to change due to temperature and other environmental considerations.

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April 17, 2024 - PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

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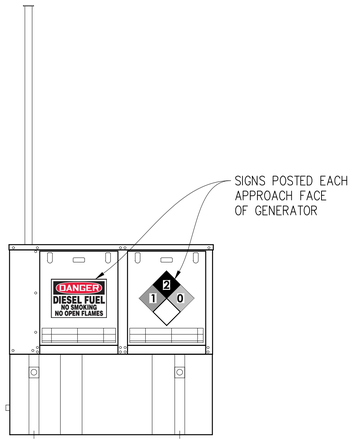
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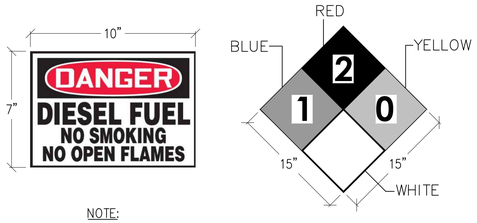
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GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.3



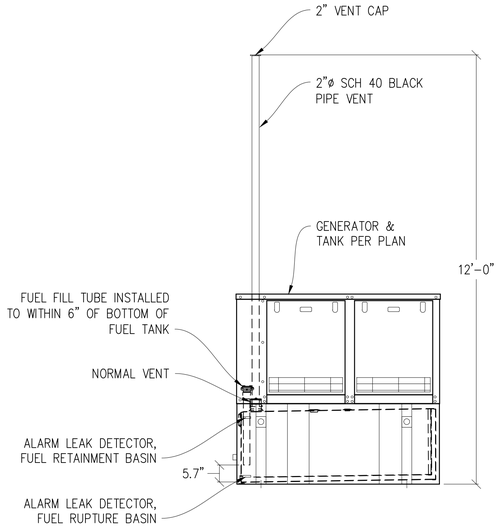


NOTE:
1. LETTERS SHALL BE A MINIMUM OF 3" IN HEIGHT
2. SIGN TO BE PLACED ON ALL SIDES OF GENERATOR
3. 10"x14" ALUMINUM NO SMOKING SIGN

1 GENERATOR SAFTEY SIGNAGE

NOT TO SCALE

NOTE:
FILL PIPE SHALL TERMINATE WITHIN 6" OF TANK BOTTOM



2 GENERATOR VENT & FILL DETAIL

½"=1'-0"

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

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PROJECT ID:	17393305
DRAWN BY:	SEAD
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E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

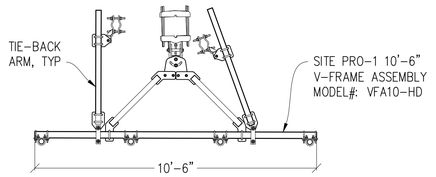
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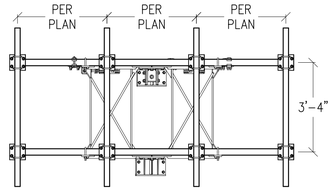
GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.4



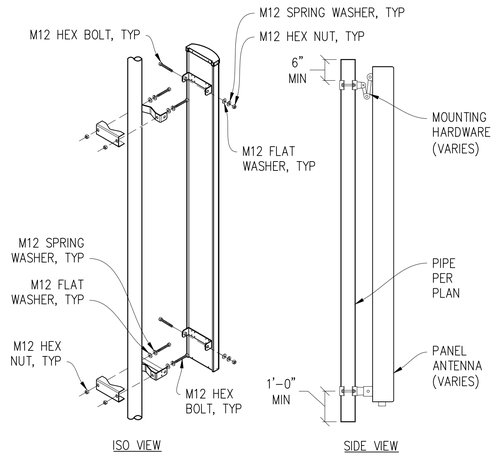
TOP VIEW



FRONT VIEW

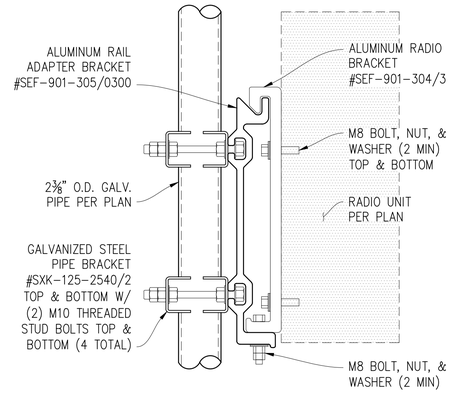
1 ANTENNA MOUNT

3/8"=1'-0"



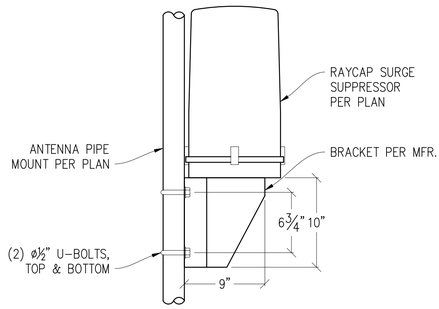
2 ANTENNA MOUNT

1"=1'-0"



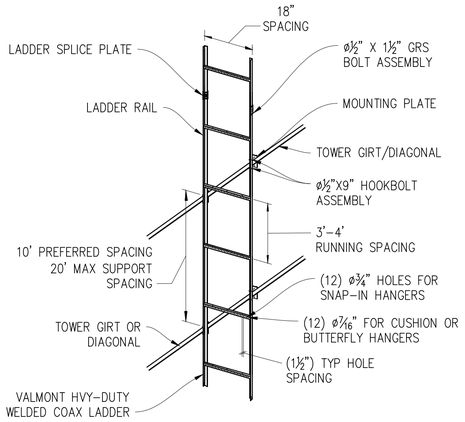
3 RADIO UNIT MOUNTING

3"=1'-0"



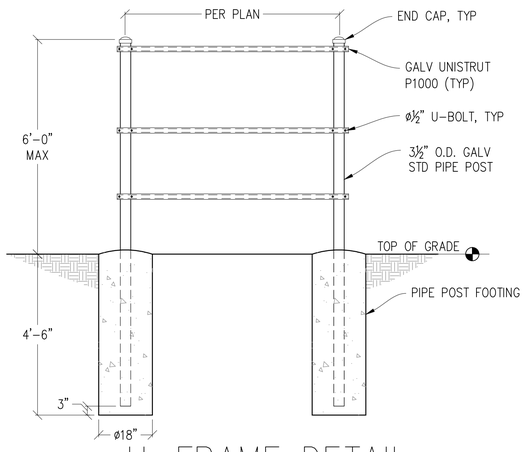
4 SURGE PIPE MOUNT

1½"=1'-0"



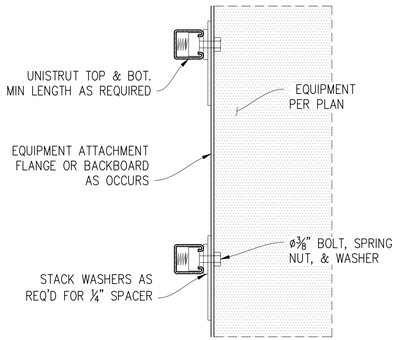
5 CABLE LADDER TO TOWER

NOT TO SCALE



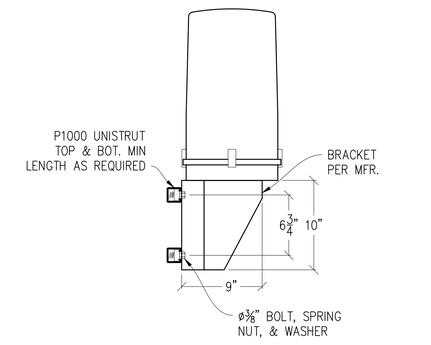
6 H-FRAME DETAIL

½"=1'-0"



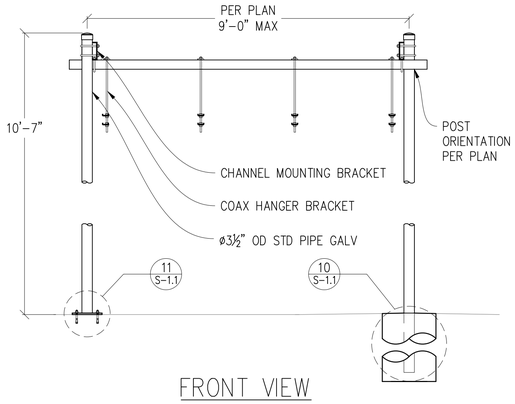
7 EQUIPMENT MOUNTING

3"=1'-0"



8 SURGE MOUNT

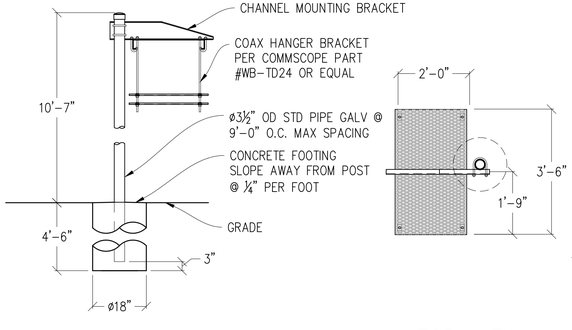
1½"=1'-0"



FRONT VIEW

9 ICE BRIDGE DETAIL

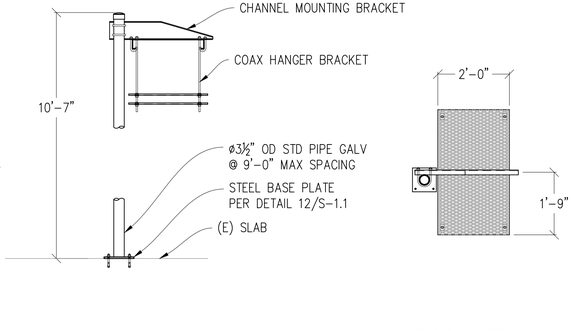
½"=1'-0"



FRONT VIEW TOP VIEW

10 ICE BRIDGE DETAIL

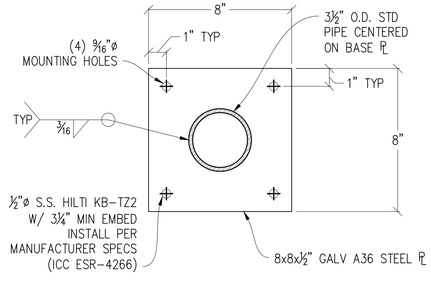
½"=1'-0"



FRONT VIEW TOP VIEW

11 ICE BRIDGE DETAIL

½"=1'-0"



12 ICE BRIDGE BASE PLATE

3"=1'-0"

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E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

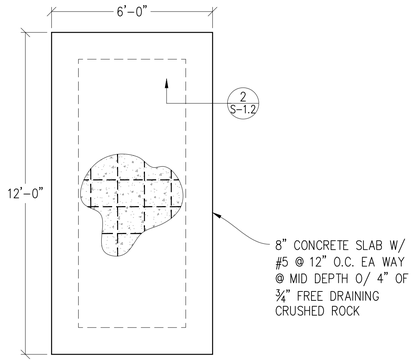
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SHEET TITLE:

STRUCTURAL DETAILS

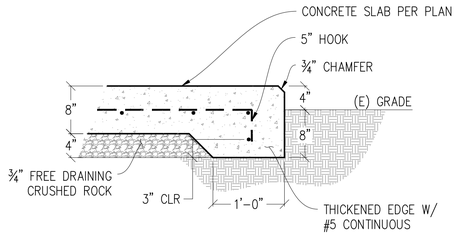
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S-1.1



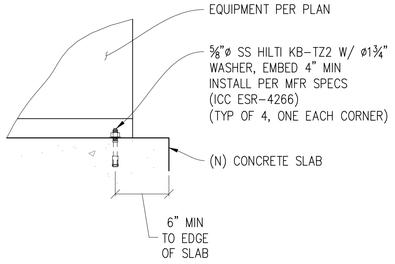
1 CONC. SLAB DETAIL

⅜"=1'-0" @ EQUIPMENT



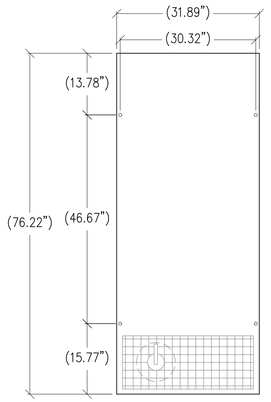
2 THICKENED EDGE SLAB

1"=1'-0"



3 CABINET TO CONC

1½"=1'-0"



4 GENERATOR ANCHOR LOCATIONS

¾"=1'-0"

5 GENERATOR ANCHORAGE

½"=1'-0"

6 CONC. SLAB DETAIL

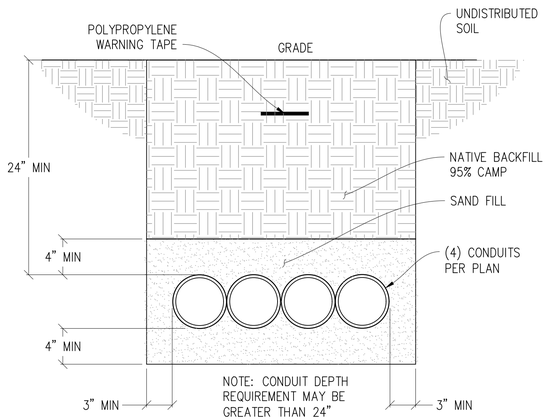
½"=1'-0" @ GENERATOR

7 THICKENED EDGE SLAB

1"=1'-0"

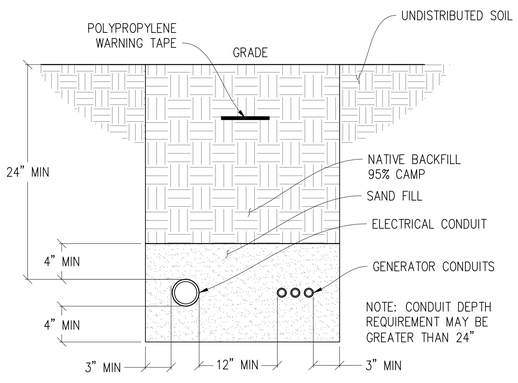
8 CONDUIT TRENCH DETAIL

1½"=1'-0"



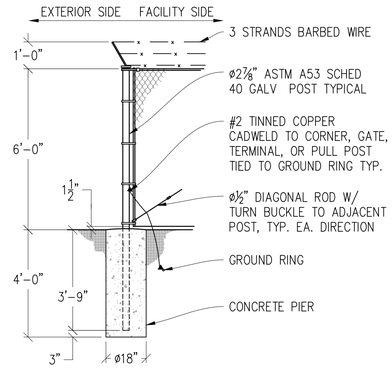
9 CONDUIT TRENCH DETAIL

1½"=1'-0"



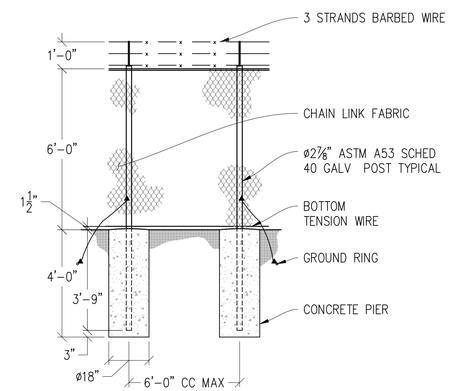
10 CONDUIT TRENCH DETAIL

1½"=1'-0"



11 CORNER POST DETAIL

⅜"=1'-0"



12 LINE POST DETAIL

⅜"=1'-0"

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MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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REV	DATE	DESCRIPTION	CAD
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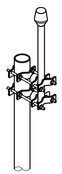
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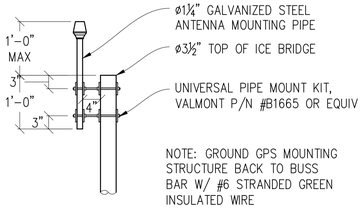
SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S-1.2

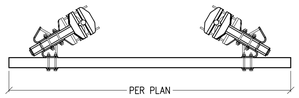




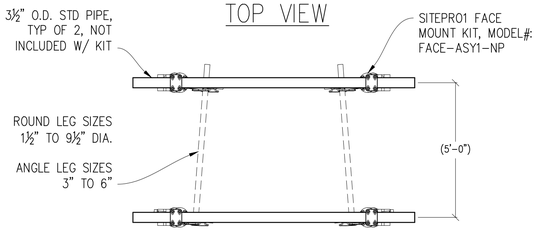
ISO VIEW SIDE VIEW

1 GPS MOUNT DETAIL

¾"=1'-0"



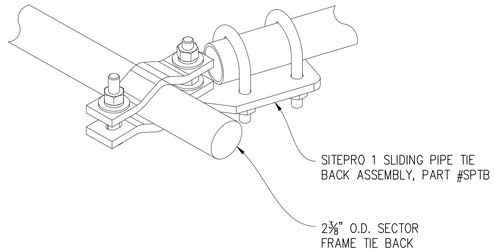
TOP VIEW



FRONT VIEW

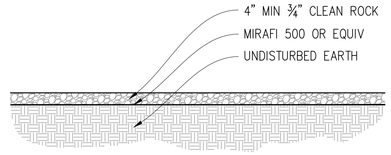
2 ANTENNA MOUNT

⅜"=1'-0" MAX WEIGHT: 530 LBS



3 PIPE TIE BACK DETAIL

3"=1'-0" WEIGHT: 88.49 LB



4 TYP COMPOUND DETAIL

½"=1'-0"

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PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

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JAMES R. SPORE
S6336
STRUCTURAL
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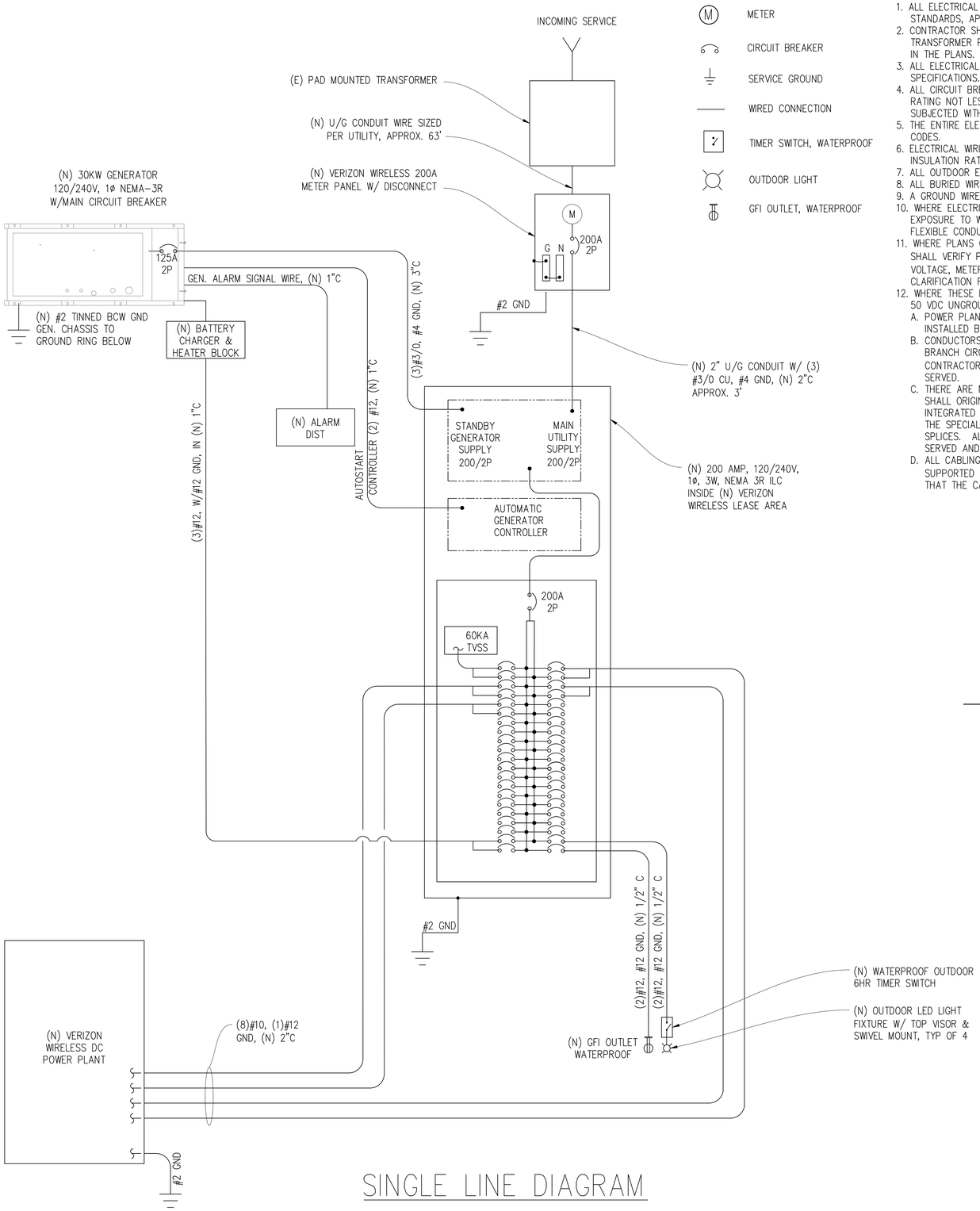
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SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S-1.3



SINGLE LINE DIAGRAM

ELECTRIC LEGEND

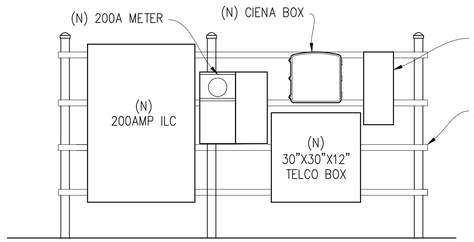
- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF

ELECTRICAL NOTES

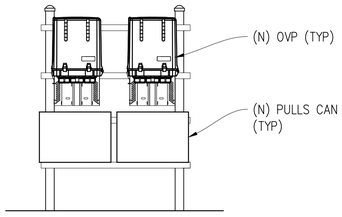
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE 2022 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
3. ALL 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.

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 LIGHTNING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
4. ALL (N) OR RETROFITTED LIGHTNING 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")



UTILITY ELEVATIONS



UTILITY ELEVATIONS

PANEL SCHEDULE

NAMEPLATE : PANEL A			SC LEVEL : 22,000				VOLTS: 120V/240V, 1ø		
LOCATION : OUTSIDE							BUS AMPS: 200A		
MOUNTING : H-FRAME							MAIN CB: 200A		
ØA	ØB							ØA	ØB
LOAD VA	LOAD VA	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	LOAD DESCRIPTION	LOAD VA	LOAD VA
30		SURGE ARRESTOR	60/2	1	2	30/2	(N) DC POWER PLANT	2292	
	30	" "	" "	3	4	" "	" "		2292
2292		(N) DC POWER PLANT	30/2	5	6	30/2	" "	2292	
	2292	" "	" "	7	8	" "	" "		2292
2292		" "	30/2	9	10	–	BLANK		
	2292	" "	" "	11	12	–	" "		
		BLANK	–	13	14	–	" "		
		" "	–	15	16	–	" "		
		" "	–	17	18	–	" "		
		" "	–	19	20	–	" "		
		" "	–	21	22	–	" "		
		" "	–	23	24	–	" "		
		" "	–	25	26	–	" "		
		" "	–	27	28	–	" "		
		" "	–	29	30	–	" "		
		" "	–	31	32	–	" "		
		" "	–	33	34	–	" "		
		" "	–	35	36	–	" "		
		" "	–	37	38	–	" "		
1000		(N) GEN. HEATER	20/1	39	40	20/1	LIGHTS		300
	300	(N) GEN. BATTERY CHARGER	20/1	41	42	20/1	GFI RECEPTACLE	180	
5614	4914	PHASE TOTALS					PHASE TOTALS	4764	4884
TOTAL VA =	20176	TOTAL AMPS =	84						
TOTAL KVA =	20.18								

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MANCHESTER, CA 95459

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verizon

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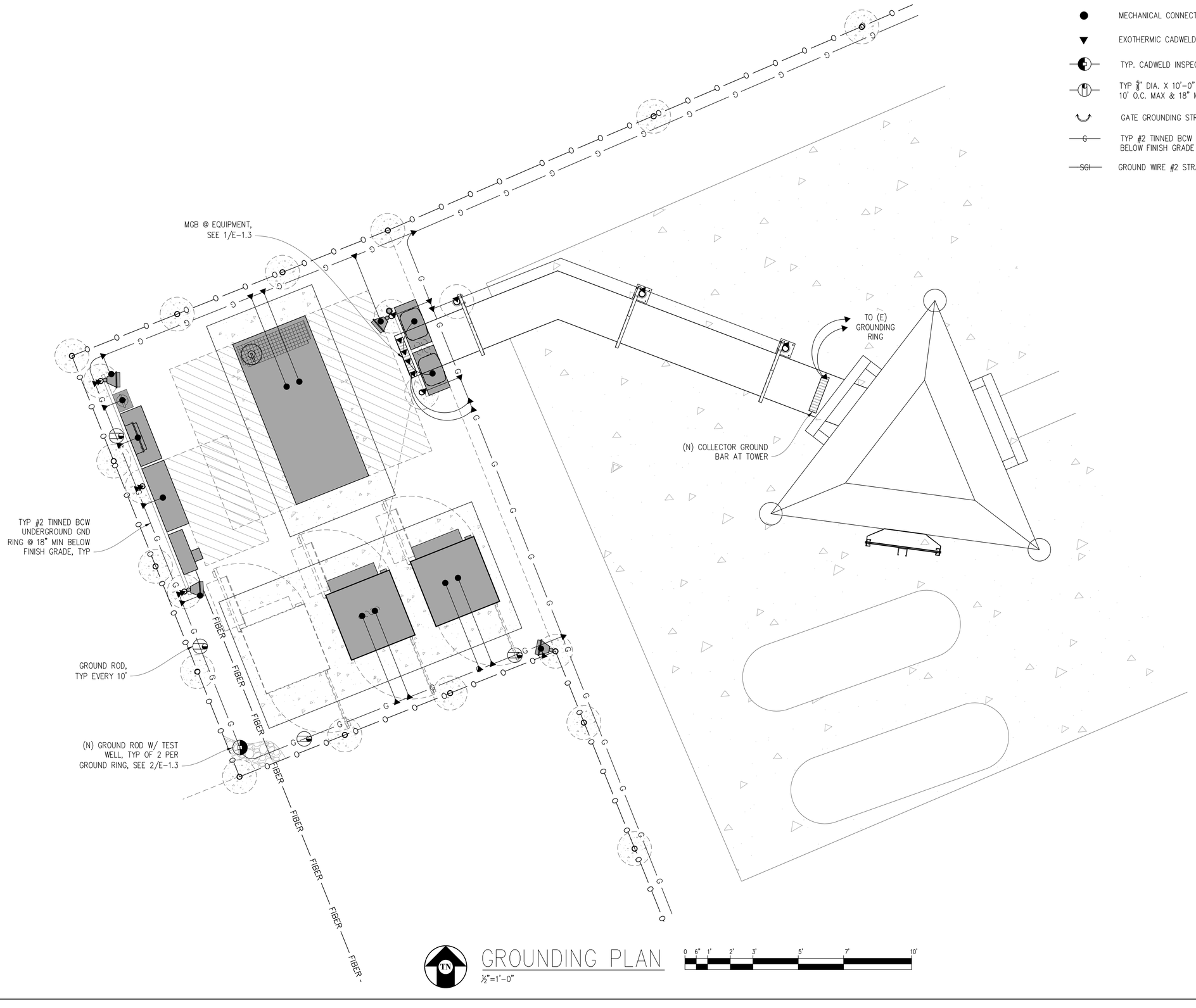
ELECTRICAL PLAN

SHEET NUMBER:

E-1.1

GROUNDING LEGEND

- MECHANICAL CONNECTION
- EXOTHERMIC CADWELD
- TYP. CADWELD INSPECTION WELL
- TYP $\frac{5}{8}$" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
- GATE GROUNDING STRAP
- —G— TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- —SGI— GROUND WIRE #2 STRANDED GREEN INSULATED WIRE



GROUNDING PLAN

$\frac{1}{2}$"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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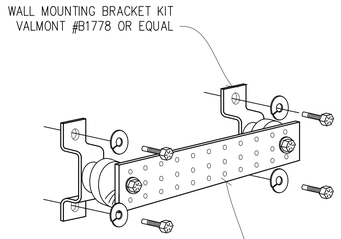
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GROUNDING PLAN

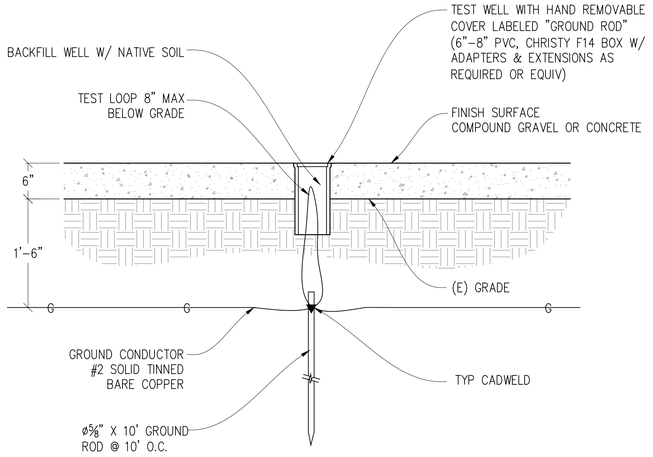
SHEET NUMBER:

E-1.2



1 GROUND BUSS DETAIL

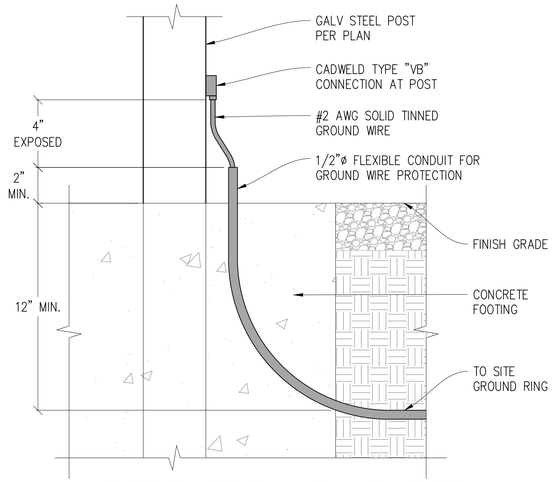
NOT TO SCALE



2 TEST WELL DETAIL

1"=1'

NOTE: THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS. THE GROUND RODS SHALL BE ⅝" X 10' COPPER CLAD STEEL SPACED AT 10' INTERVALS MAX. RODS SHALL BE INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND WIRE BURIED A MINIMUM 18" BELOW GRADE. AN ONSITE INSPECTION BY THE OWNER SHALL BE REQUIRED PRIOR TO ANY BACKFILL.



3 POST GROUNDING DETAIL

3"=1'-0"

GROUNDING NOTES

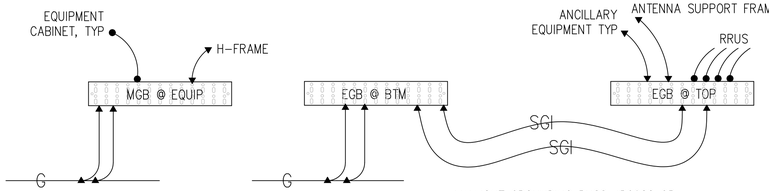
1. GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
2. USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
3. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
4. EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
5. CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
6. APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
7. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
8. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
9. THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:

   A. CONNECT TO EXISTING GROUNDING SYSTEMS
   B. CONNECT TO BUILDING STEEL COLUMNS
   C. INSTALL A NEW GROUNDING SYSTEM

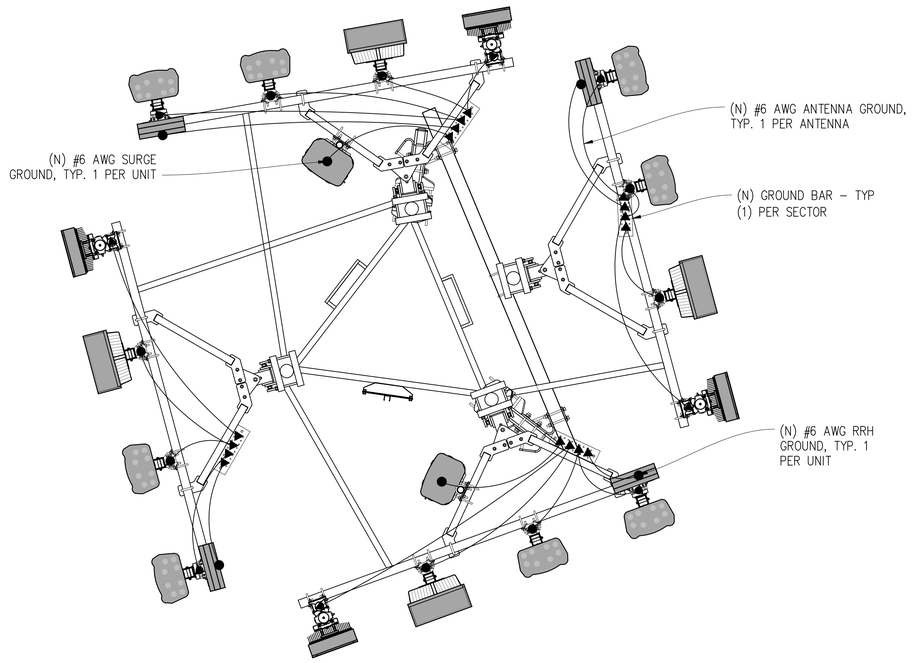
   UPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.

GROUNDING LEGEND

- ● MECHANICAL CONNECTION
- ▼ EXOTHERMIC CADWELD
- TYP. CADWELD INSPECTION WELL
- TYP ⅝" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
- GATE GROUNDING STRAP
- —G— TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- —SGI— GROUND WIRE #2 STRANDED GREEN INSULATED WIRE



VALMONT GROUNDING BUSS #B2988 OR EQUIVALENT WITH HOLE PATTERN AND STANDOFF INSULATORS AND BRACKETS



ANTENNA GROUNDING PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

Issued For:

STORNETTA

20001 ST HWY 1
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968099
PROJECT ID:	17393305
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
1	10/17/25	CD 100%	J.Z.
0	08/22/25	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

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

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen, Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

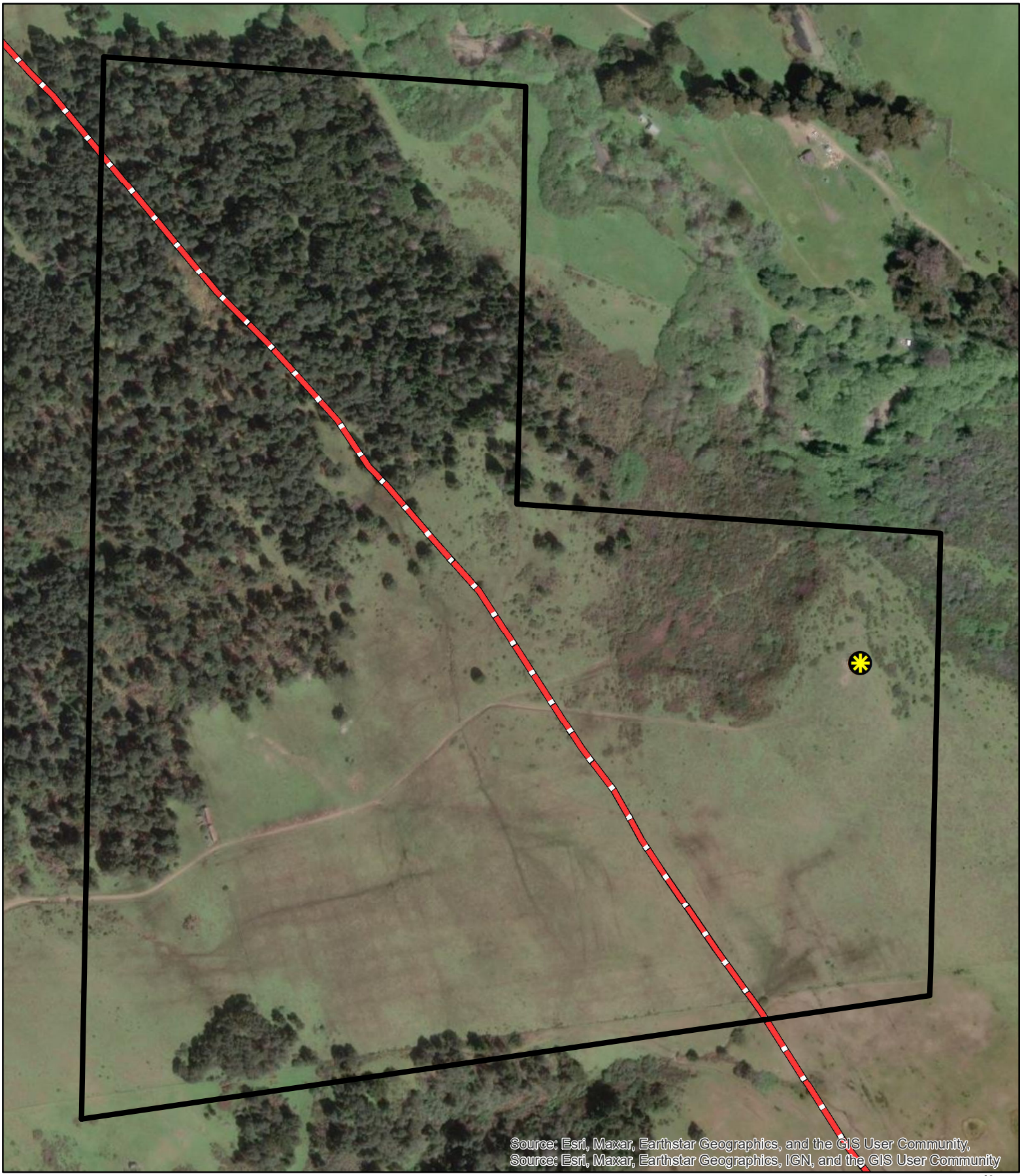
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SHEET TITLE:

GROUNDING PLAN & DETAILS

SHEET NUMBER:

E-1.3



CASE: AP 2025-0029
OWNER: Verizon Wireless
APN: 133-110-27
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 20001 S Hwy 1

Coastal Zone Boundary

Approved Wireless Sites

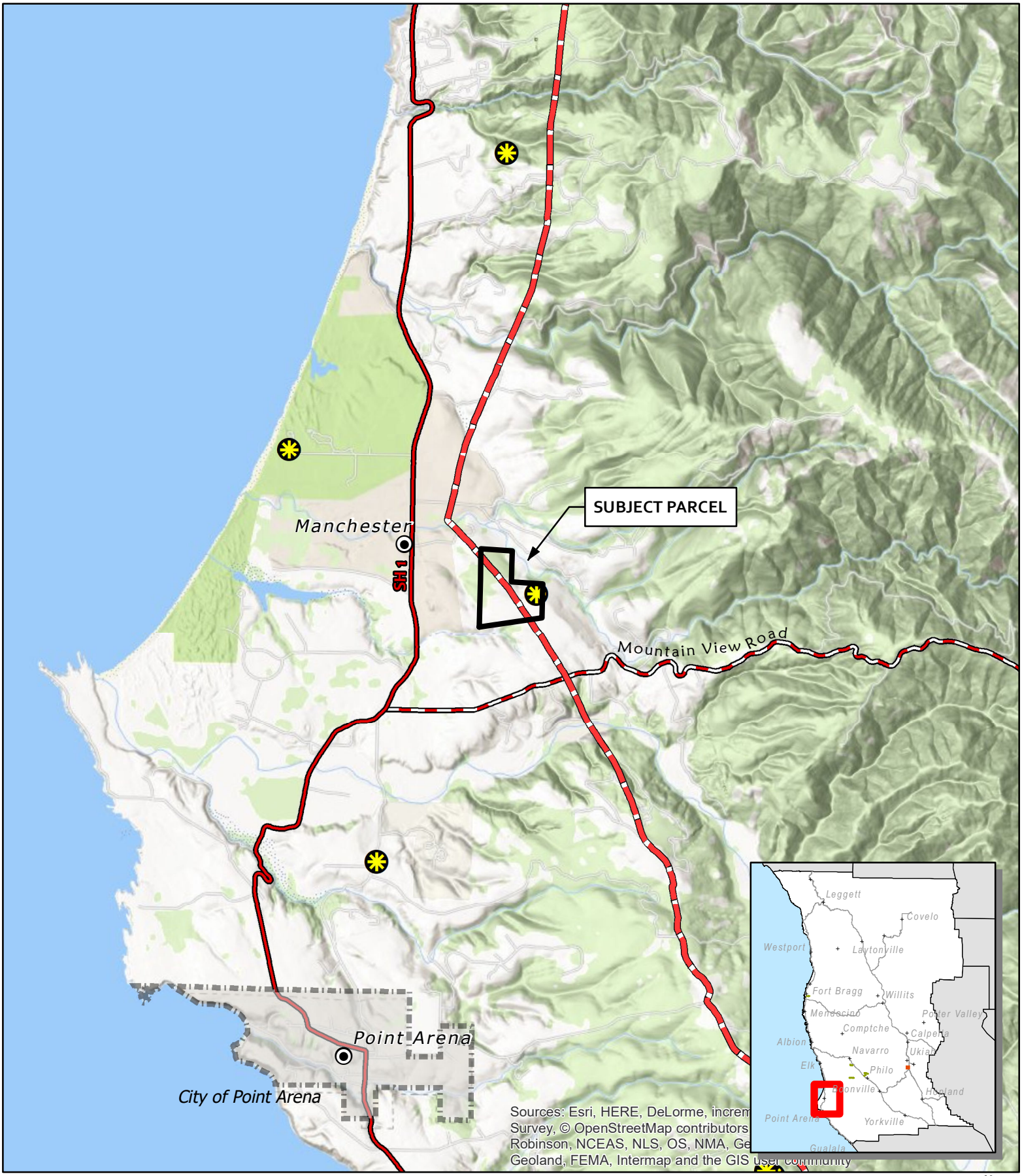
0 210 420 Feet
0 0.0375 0.075 Miles

N W E S

1:4,661.21

AERIAL IMAGERY

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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: AP 2025-0029
OWNER: Verizon Wireless
APN: 133-110-27
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 20001 S Hwy 1

Major Towns & Places
City Limits
Coastal Zone Boundary
Highways
Major Roads
Approved Wireless Sites

0 2,800 5,600 Feet
0 0.5 1 Miles

1:63,360

LOCATION

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