



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
 120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

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

March 14, 2023

Building Inspection - Ukiah
 Air Quality Management

Cloverdale Rancheria
 Redwood Valley Rancheria

Sherwood Valley Band of Pomo Indians
 Ukiah Valley Fire District

CASE#: AP_2023-0005

DATE FILED: 2/28/2023

OWNER: MENDOCINO LAKE CLUBHOUSE INC

APPLICANT: CALIFORNIA RURAL SERVICE AREA #1

AGENT: FAULK AND FOSTER/TRACEY MALONE

REQUEST: Administrative Permit to modify an existing telecommunication site with the removal and replacement of six (6) CDMA antennas. Three (3) C-Band antennas and three (3) DoD antennas are proposed as replacements with no net change in the number of antennas. The six (6) existing LTE/CDMA/PCS/AWS antennas will remain but will be relocated. The height of the tower will not change.

LOCATION: 3.9± miles northeast of the City of Ukiah center, lying on the west side of Lake Mendocino Drive (CR 227B), 0.4± miles northeast of its intersection with East Side Calpella Road (CR 227), located at 1500 Lake Mendocino Dr., Ukiah; APN: 168-210-08.

SUPERVISORIAL DISTRICT: 1

STAFF PLANNER: STEVEN SWITZER

RESPONSE DUE DATE: March 28, 2023

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_2023-0005

OWNER: MENDOCINO LAKE CLUBHOUSE, INC.

APPLICANT: CALIFORNIA RURAL SERVICES AREA #1, INC.

AGENT: TRACEY MALONE C/O FAULK & FOSTER

REQUEST: Administrative Permit to modify an existing telecommunication site with the removal and replacement of six (6) CDMA antennas. Three (3) C-Band antennas and three (3) DoD antennas are proposed as replacements with no net change in the number of antennas. The six (6) existing LTE/CDMA/PCS/AWS antennas will remain but will be relocated. The height of the tower will not change.

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APN/S: 168-210-08

PARCEL SIZE: 5.31± Acres

GENERAL PLAN: Suburban Residential (SR)

ZONING: Suburban Residential (SR)

EXISTING USES: Wireless Communications facility

DISTRICT: 1 (McGourty)

RELATED CASES: U 21-2006, UM 21-2006/2013, AP_2017-0003, AP_2020-0011, AP_2022-0026

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	RR5	RR:5	32.72± acres	Residential; Agriculture
EAST:	PL	PF	5.42± acres	Public Facilities
SOUTH:	RR1	RR:1	1.21±; 1.15±; 1.9±; 1.3± acres	Residential
WEST:	SR	SR:12K	4.9±; 1.5±; 1.35± acres	Residential

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Building Division Ukiah
- Ukiah Valley Fire District

TRIBAL

- Cloverdale Rancheria
 - Redwood Valley Rancheria
 - Sherwood Valley Band of Pomo Indians
-

ADDITIONAL INFORMATION:

Use Permit U 21-2006 - permitted the construction of the subject 60-foot tall monopine within a 2,500 square-foot lease area

Use Permit Modification UM 21-2006/2013 -

AP_2017-0003 - Administrative Permit for US Cellular antenna modifications to an existing tower

AP_2020-0011 - Administrative Permit to remove six (6) LTE antennas, six (6) RRHs, and twelve (12) combiners and add six (6) antennas and RRH mount. Two (2) Raycaps and two (2) RRHs to be relocated to proposed RRH mount. No electrical work to be completed.

AP_2022-0026 - Administrative Permit to add a 30 Kw diesel fuel electricity generator with an attached 373 gallon fuel tank for emergency power needs during power outages on a new four foot by nine foot concrete pad within the existing fenced lease area.

ENVIRONMENTAL DATA

1. MAC:

GIS
N/A

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS
N/A

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS
Ukiah Valley Fire District

4. FARMLAND CLASSIFICATION:

GIS
N/A

5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)
NO

6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS
N/A

7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part
Eastern

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
N/A

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS
NO

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
NO

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10
N/A

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
N/A

21. STATE CLEARINGHOUSE REQUIRED:

Policy
N/A

22. OAK WOODLAND AREA:

USDA
N/A

23. HARBOR DISTRICT:

Sec. 20.512
N/A



PLANNING & BUILDING
SERVICES

FEB 28 2022

CASE NO:	AP 2023-0005
DATE FILED:	2-28-23
FEE:	\$ 2786.00
RECEIPT NO:	
RECEIVED BY:	KG

Office Use Only

Planning & Building Services **APPLICATION FORM**

APPLICANT:

Name: California Rural Service Area #1, Inc. by its agent
 Name: Faulk and Foster Phone: 616-460-5889
 Mailing Address: 8410 West Bryn Mawr Avenue, Suite 700
 City: Chicago State/Zip: IL 60631 Email: tracey.malone@faulkandfoster.com

PROPERTY OWNER:

Name: Mendocino-Lake Clubhouse, Inc. Phone: not applicable - all permission given in assignment
 Mailing Address: 1500 Lake Mendocino Drive
 City: Ukiah State/Zip: CA/95485 Email: not applicable - all permission given in assignment

AGENT:

Name: Faulk and Foster by Tracey Malone Phone: 616-460-5889
 Mailing Address: 1811 Auburn Avenue
 City: Monroe State/Zip: LA/71201 Email: tracey.malone@faulkandfoster.com

ASSESSOR'S PARCEL NUMBER/S: 168-210-08

TYPE OF APPLICATION:

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Administrative Permit | <input type="checkbox"/> General Plan Amendment | <input type="checkbox"/> Use Permit – Cottage |
| <input type="checkbox"/> Agricultural Preserve: New Contract | <input type="checkbox"/> Land Division – Minor | <input type="checkbox"/> Use Permit – Minor |
| <input type="checkbox"/> Agricultural Preserve: Cancellation | <input type="checkbox"/> Land Division – Major | <input type="checkbox"/> Use Permit – Major |
| <input type="checkbox"/> Agricultural Preserve: Rescind & ReEnter | <input type="checkbox"/> Land Division – Parcel | <input type="checkbox"/> Use Permit – Modification |
| <input type="checkbox"/> Airport Land Use | <input type="checkbox"/> Land Division – Re-Subdivision | <input type="checkbox"/> Variance |
| <input type="checkbox"/> Development Review | <input type="checkbox"/> Modification of Conditions | <input type="checkbox"/> Other |
| <input type="checkbox"/> Exception | <input type="checkbox"/> Reversion to Acreage | |
| <input type="checkbox"/> Flood Hazard Development Permit | <input type="checkbox"/> Rezoning | |

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

Tracey Malone
Signature of Applicant/Agent

2/18/22
Date

see attached assignment
Signature of Owner

Date

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.

Modification of antennas and equipment pursuant to the scope of work and a narrative description. _____

Original Permit: UP-21-2006 _____

2. Structures/Lot Coverage	NO. OF UNITS		SQUARE FOOTAGE		
	EXISTING	PROPOSED	EXISTING	PROPOSED	TOTAL
<input type="checkbox"/> Single Family <input type="checkbox"/> Mobile Home <input type="checkbox"/> Duplex <input type="checkbox"/> Multifamily <input type="checkbox"/> Other: <input type="checkbox"/> Other:					
GRAND TOTAL (Equal to gross area of Parcel):					

3. If the project is commercial, industrial or institutional, complete the following:

Estimated No. of Employees per shift: _____

Estimated No. of shifts per day: _____

Type of loading facilities proposed: _____

4. Will the project be phased?

YES NO If yes, explain your plans for phasing:

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

YES NO If no, explain:

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

YES NO If yes, explain:

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.

YES NO 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.

YES NO

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

YES NO

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

YES NO If yes, explain how:

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

YES NO

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

YES NO

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

Diking: YES NO

Filling: YES NO

Dredging: YES NO

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? YES NO

16. Will there be any exterior lighting?

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

no change

17. Utilities will be supplied to the site as follows: no change

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: YES NO

18. What will be the method of sewage disposal? none

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

19. What will be the domestic water source: none

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

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

- YES
- NO If yes, explain: (e.g., 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:

nothing new

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

see construction drawings

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

- YES
- NO

no change

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.

- YES
- NO

no change

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

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

AUTHORIZATION OF AGENT

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

Owner _____
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

RE: **Notice of Grant of Easement and Assignment of Lease**

Premises address: **1500 Lake Mendocino Dr, Ukiah CA 95482** (the "Property")

Lease dated as of **Sep 12, 2006** (the "Lease")

Tenant Reference #: **568452**

Current Payor: **California Rural Service Area #1, Inc., a California Corporation**

Landmark Site Number: **TC120742**

Dear Tenant:

Please take notice that as of 4/23/12^{PO}, the undersigned, as fee owner of the above-referenced Property has granted a perpetual easement and assigned all rights, title and interest in and to the Lease to LD Holdings LLC, a Delaware limited liability company ("Landmark"). The undersigned will continue to own the Property and retain the obligations and liabilities of landlord under the Lease. The undersigned shall also retain possession and control of all security deposits and LD Holdings LLC shall have no obligation with respect to any such security deposits.


After the date hereof, except for payments in respect of utility fees, real property taxes and assessments payable by you to the undersigned as landlord under the Lease, all future rent payments are hereby directed to be made payable to "LD Holdings LLC" and delivered, subject to any further instructions you may hereafter receive, to:

LD Holdings LLC
1700 East Walnut Avenue, Suite 400
El Segundo, CA 90245
Ref: Landmark # TC120742

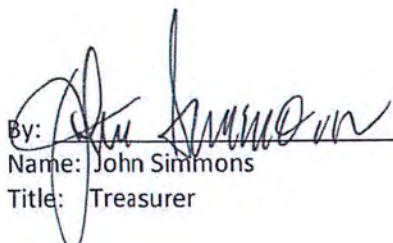
All future communications regarding the Lease should be made directly to Landmark. If you have any questions about the foregoing, please contact Landmark at (310) 294-8189.

Best regards,

**MENDOCINO-LAKE CLUBHOUSE, INC., a
California corporation**

By: 
Name: James M. Busch
Title: President

Date: 4/13/12

By: 
Name: John Simmons
Title: Treasurer

TC120742/Mendocino

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.

California RSA #1 by its agent Faulk & Foster, Tracey Malone

2/18/2022

Date

Tracey Malone

Applicant



County of Mendocino
Department of Planning and Building Services
 860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
 120 WEST FIR STREET · FORT BRAGG · CALIFORNIA · 95437

IGNACIO GONZALEZ, INTERIM DIRECTOR
 JULIA KROG, ASSISTANT DIRECTOR
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 www.mendocinocounty.org/pbs

2023 C-Band and DoD
 Ukiah Cap II #568452

AGENT/APPLICANT AUTHORIZATION

I, California Rural Service Area #1, authorize the following Agent/Applicant to represent this project. The Authorized Agent/Applicant has my permission to make decisions regarding the processing of this application. If at any time I wish to remove/replace this authorization, I understand that I shall notify the Planning and Building Department in writing as to my decision.

Site Address: 1500 Lake Mendocino Drive, Ukiah, California 95485

Scope (description) of work: Modification of antennas and equipment

Authorized Agent/Applicant

Name (Please Print): Tracey Malone and Faulk & Foster

Mailing Address: 1811 Auburn Avenue,

City/State/Zip: Monroe, Louisiana 71201

Phone Number: 616-460-5889

E-Mail: tracey.malone@faulkandfoster.com

I declare under penalty of perjury that I represent the tower owner located at the addresses listed above and I personally reviewed the above information and certify its accuracy.

California Rural Service Area #1

Owner Signature: see following letter

Date: _____

TO BE FILLED OUT BY PLANNING AND BUILDING STAFF

APPLICATION NUMBER: _____

ACCEPTED BY: _____



February 3, 2023

RE: Faulk & Foster Authorization

To Whom it may concern,

U.S. Cellular® authorizes Faulk and Foster to represent U.S. Cellular® in the performance of project management, zoning, and permitting activities for various projects in the states of California, Oregon, Washington, Texas, Oklahoma, Missouri, Kansas, Nebraska, Iowa, Illinois, Wisconsin, Tennessee, South Carolina, North Carolina, West Virginia, Virginia, Pennsylvania, New Hampshire, Maine.

Best regards,

Brandi Vandenberg

Brandi Vandenberg
U.S. Cellular®
Sr Manager Access Deployment
10343 Military Road
Omaha, NE 68134
(402) 515-8275
brandi.vandenberg@uscellular.com

RECEIVED
FEB 28 2022
Planning & Building Services



Faulk & Foster

February 18, 2023

Keith Gronendyke, Planner II
Mendocino County
Planning and Building Services
860 North Bush St

Ukiah, CA 95482
Phone: (707) 234-6650
FAX: (707) 463-5709
email: gronendykek@mendocinocounty.org
Web site: www.co.mendocino.ca.us/planning/

RECEIVED
FEB 28 2022

Planning & Building Services

RE: Administrative Antenna Review – Address: 1500 Lake Mendocino Drive, Ukiah,
California 95485; Site Name: Ukiah Cap II #568452

Dear Keith:

Please consider this submission an antenna change report. Please note that this project does not involve the addition of antennas. It involves the removal and replacement of antennas and equipment. **There is no net change in the number of antennas.**

My intent is to fully describe the changes to the installation at the address above. The tower at this location is an existing monopine stealth wireless facility. Currently, twelve (12) antennas are mounted at the 68' level. At the end of the installation, the number of antennas will be twelve (12). Two RAYCAPS to be removed and one RAYCAP to be added for surge protection. One lightning rod will be added. One hybrid cable will be added

Removed Antennas:

The four LPA-80063-EDIN (4) CDMA antennas that are being removed have the dimensions of 71.1 x 15.2 x 13.1 inches (LxWxD). The two RWA-80017LS EDL (2) CDMA antennas that are being removed are 96.5 x 11.2 x 5.9 (LxWxD).

Added Antennas:

The three (3) proposed C-Band panel antenna that are being added have a dimension of 39.4 x 17.64 x 4.45 inches (HxWxD). The three (3) proposed DoD panel antenna that are being added have a dimension of 29.52 x 17.71 x 9.44 inches (HxWxD). The new antennas will reside in three different locations (in three different directions). The C-Band antenna will

be above the DoD antennas in each footprint. Together, each footprint location in sum is shorter and basically the same width and depth.

Remaining Antennas:

The six existing LTE/CDMA/PCS/AWS antennas will remain; but, some of them are being relocated and repurposed. The existing microwave antenna dish will also remain.

Chapter 20.236 of the Mendocino County Code Section 20.236.020(A) allows an eligible facilities request as defined in 47 Code of Federal Regulations 1.40001 to be reviewed by administrative permit. 47 CFR 1.40001 (3) defines an eligible facilities request as any request for the modification of an existing tower involving the replacement of equipment that does not substantially change the physical dimensions of such tower. This proposed modification is not a substantial change to the tower because it will not change the height of the tower, it will add panel antennas to the existing elevation. The new antenna mount framework will be interior to the existing mount. All work on the ground will be interior to the existing equipment shelter.

Chapter 20.236 of the Mendocino County Code Section 20.236.020(B) allows those applications for additional antennas and associated equipment to be approved by administrative permit if the changes are in keeping with the development standards found in Section 20.236.025. This project is in compliance with the development standards of Section 20.236.025(A) as a request for additional antennas and equipment located on an existing tower. It is my belief that the proposal is consistent with the requirements of the original use permit. The height of the tower will not change. The new panel antennas will not increase the total structure height with attachments because the new antennas are shorter than those that are being removed. The facility will also remain in compliance with the maximum permissible exposure levels set by the FCC.

For these reasons, the project is subject to administrative approval. I have provided excerpts from the construction drawings to show you the changes that are proposed.

Thanks for your continued assistance with this. Please contact me with questions. **Please note my new mailing address.**

Sincerely,

Tracey

Tracey Malone
Faulk & Foster
Tracey Malone | Zoning Specialist
Office 616.647.3720 x104
Mobile 616.460.5889 | Fax 616.647.8614
E-mail tracey.malone@faulkandfoster.com

1811 Auburn Avenue Monroe, LA 71201

SCOPE OF WORK

TOWER SCOPE:

EXISTING EQUIPMENT TO REMAIN:

- (5) DENCYO GCTB-2LX2HX-BW65 LTE PANEL ANTENNAS
- (3) NOKIA AHLGA B12/B71 RRHs
- (3) NOKIA AHFB B2/B66 RRHs
- (2) NOKIA FXCB B5 RRHs
- (2) RAYCAPS RUSDC-6267-PF-48
- (2) 1/2" HYBRID CABLES
- (5) FH 7/8" CDMA COAX

PROPOSED EQUIPMENT:

- (3) NOKIA A00K C-BAND RRH W/ INTEGRATED ANTENNA
- (3) NOKIA AE0U DoD RRH W/INTEGRATED ANTENNA
- (1) RAYCAP RUSDC-6267-PF-48
- (1) 1/2" HYBRID CABLE

C-BAND/DoD JUMPERS:

- (3) FIBER JUMPERS FROM RAYCAP TO C-BAND RRHs
- (3) FIBER JUMPERS FROM RAYCAP TO DoD RRHs
- (3) POWER JUMPERS FROM RAYCAP TO C-BAND RRHs
- (3) POWER JUMPERS FROM RAYCAP TO DoD RRHs

TOP TOWER GROUND BAR:

UNABLE TO DETERMINE IF MONOPINE HAS AN EXISTING GROUND BAR.
PROPOSED GROUND BAR REQUIRED.

BOTTOM TOWER GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SHELTER EXTERIOR SCOPE:

ICE BRIDGE:

CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE, (1) GPS CABLE AND
(1) GPS.

SHELTER COAX PORT:

CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE AND (1) GPS CABLE

SHELTER EXTERIOR GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SHELTER INTERIOR SCOPE:

EXISTING EQUIPMENT:

- (1) RAYCAP RUSDC-6267-PF-48 TO REMAIN
- (1) RAYCAP RUSDC-8999-P-48 TO BE REMOVED
- (1) RAYCAP SURGE/PDU BOX TO REMAIN ON POWER BAY

PROPOSED EQUIPMENT:

- (1) PROPOSED RAYCAP FIBER SLACK TRAY
- (1) PROPOSED RAYCAP SURGE/PDU BOX (BY OTHERS)

SHELTER INTERNAL GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SPECIAL REQUIREMENTS:

ANTENNA AZIMUTHS:

PROPOSED C-BAND AND DoD RRHs TO BE INSTALLED AT THE DESIGN
AZIMUTH. AZIMUTH CHANGES MUST BE PRE SCHEDULED WITH USCC.

ANTENNA MOUNT:

EXISTING MOUNT HAS SUFFICIENT CAPACITY TO HOLD PROPOSED
LOADING. SEE APPURTENANCE MOUNT ANALYSIS BY TEP, DATED
DECEMBER 09, 2022 FOR MORE DETAILS.

ANTENNA CONFIGURATION:

PROPOSED C-BAND AND DoD RRHs TO BE INSTALLED AT 58'-0" AND
PLACED ON MOUNT POSITIONS A2, B2 AND G2.

LIGHTNING ROD:

CONTRACTOR TO INSTALL 5' LIGHTNING ROD ON TOP OF TOWER, SEE
SHEET C-4 FOR DETAILS.

DECOMMISSIONED EQUIPMENT REMOVAL:

EQUIPMENT REMOVAL:

- (4) ANTEL LPA-80063-80F-EDIN CDMA PANEL ANTENNAS
- (2) ANTEL RWA-80017 LS E DL CDMA PANEL ANTENNAS
- (2) RAYCAP RUSDC-8999-P-48 (FROM SHELTER AND TOWER)
- (1) 1" POWER CABLE

*POST-INTEGRATION

NOTE:

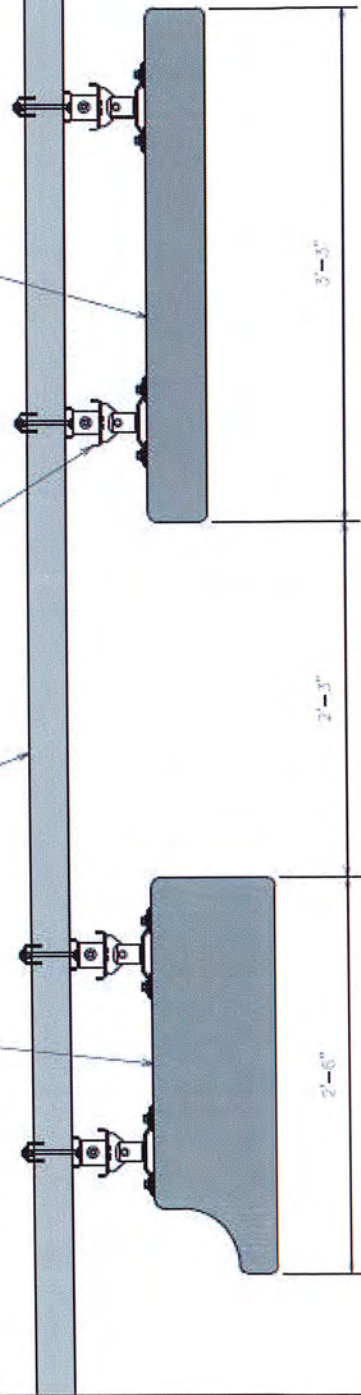
GC TO ALIGN T/CBAND WITH T/LTE ANTENNAS AND B/DOD WITH B/LTE ANTENNAS TO MAXIMIZE THE DISTANCE BETWEEN CBAND AND DOD.

PROPOSED NOKIA
AQGK RRH W/
INTEGRATED ANTENNA

MANUFACTURER
SUPPLIED ANTENNA
MOUNTING BRACKETS
(NOKIA AMFP)

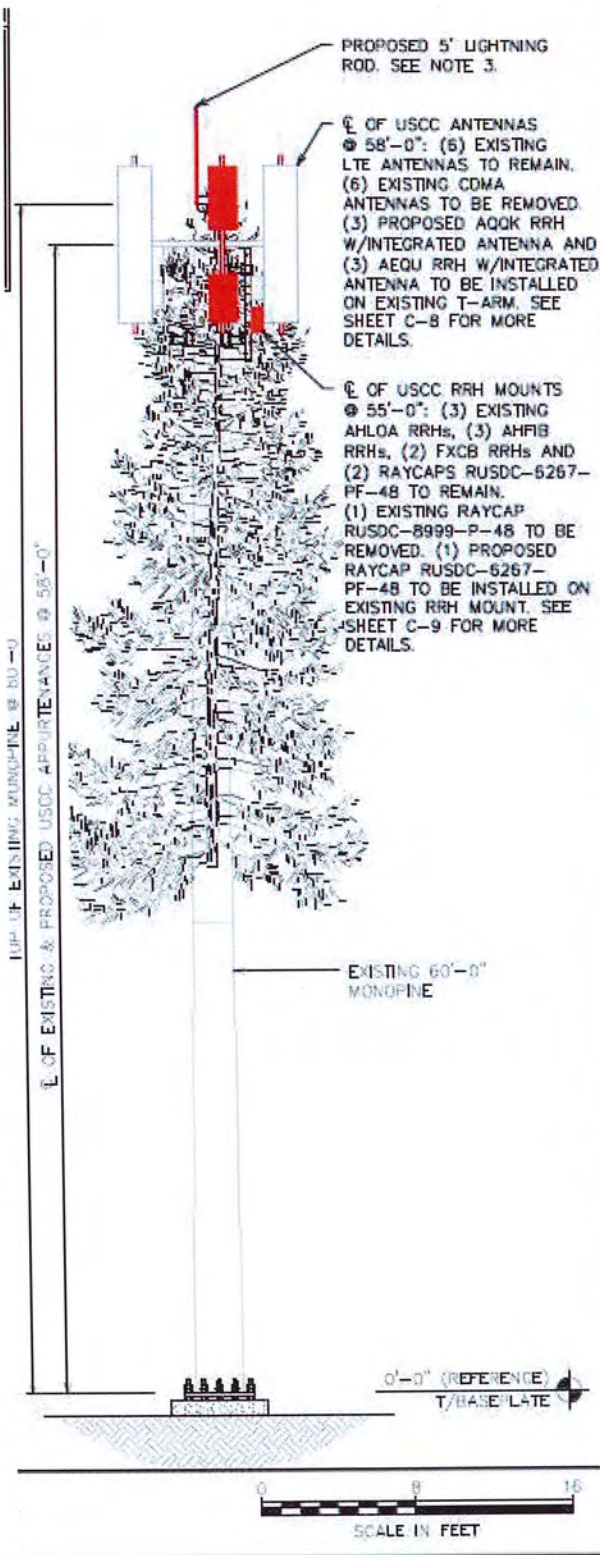
PROPOSED MOUNT PIPE

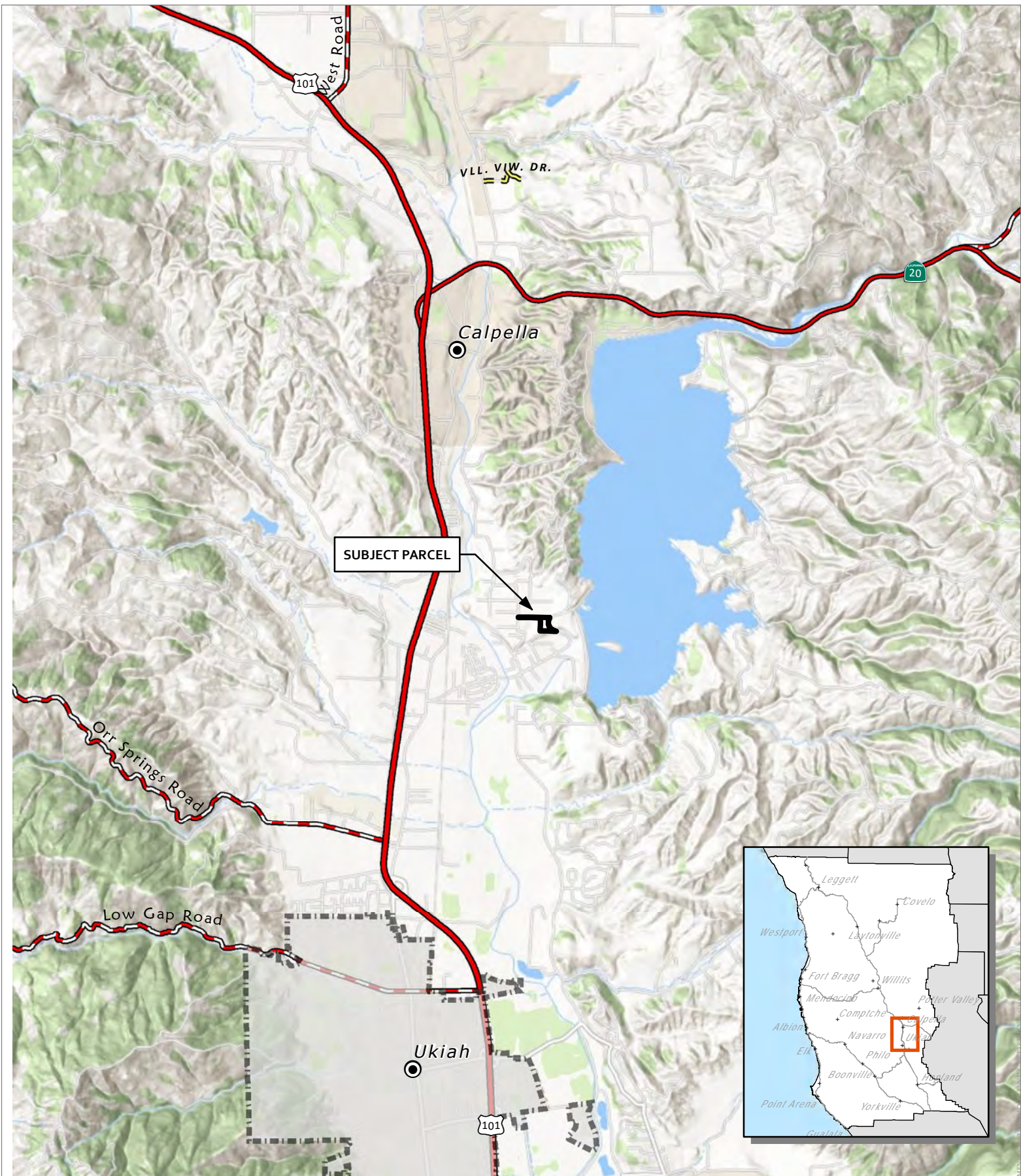
PROPOSED NOKIA
AEGU RRH W/
INTEGRATED ANTENNA



ANTENNA MOUNTING DETAILS

SCALE: N.T.S.





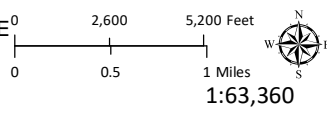
SUBJECT PARCEL

Calpella

Ukiah

CASE: AP 2023-0005
OWNER: Mendocino Lake Clubhouse Inc.
APN: 168-210-08
APLCT: California Rural Service Area #1
AGENT: Faulk & Foster/Tracey Malone
ADDRESS: 1500 Lake Mendocino Dr., Ukiah

Major Towns & Places	Highways	PRIVATE
City Limits	Major Roads	



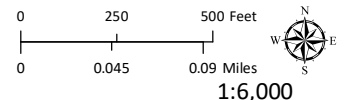
LOCATION

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
 DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: AP 2023-0005
OWNER: Mendocino Lake Clubhouse Inc.
APN: 168-210-08
APLCT: California Rural Service Area #1
AGENT: Faulk & Foster/Tracey Malone
ADDRESS: 1500 Lake Mendocino Dr., Ukiah

 Approved Wireless Sites



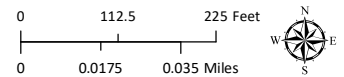
1:6,000
AERIAL IMAGERY

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CASE: AP 2023-0005
OWNER: Mendocino Lake Clubhouse Inc.
APN: 168-210-08
APLCT: California Rural Service Area #1
AGENT: Faulk & Foster/Tracey Malone
ADDRESS: 1500 Lake Mendocino Dr., Ukiah

 Approved Wireless Sites



1:2,657

AERIAL IMAGERY

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES

STATE LOCATION



SITE LOCATION



PROJECT TEAM

PROJECT CONTACT:

NAME U.S. CELLULAR CORPORATION
 ADDRESS 8410 W BRYN MAWR SUITE 700
 CITY, STATE, ZIP CHICAGO, IL 60631
 CONTACT RANDALL MATTSO

SITE ACQUISITION:

NAME FAULK & FOSTER
 ADDRESS 1811 AUBURN AVENUE
 CITY, STATE, ZIP MONROE, LA 71201
 CONTACT DAN HOOVER
 PHONE (318) 807-4666

TOWER OWNER:

NAME US CELLULAR CORPORATION
 ADDRESS 8410 W. BRYN MAWR, SUITE 700
 CITY, STATE, ZIP CHICAGO, IL 60631
 CONTACT RANDALL MATTSO

CIVIL ENGINEER:

NAME TOWER ENGINEERING PROFESSIONALS, INC.
 ADDRESS 4710 E. ELWOOD ST. #9
 CITY, STATE, ZIP PHOENIX, AZ 85040
 CONTACT DAN REIDENBACH, P.E.
 PHONE (480) 750-9062

C-BAND & DoD - DRAWINGS

SITE NAME:

UKIAH CAP 2

SITE NUMBER:

568452

SITE ADDRESS:

**1500 LAKE MENDOCINO DRIVE
 UKIAH, CA 95482
 (MENDOCINO COUNTY)**

PROJECT INFORMATION

LATITUDE: N 39° 12' 05.8" *
 LONGITUDE: W 123° 11' 21.3" *
 GROUND ELEVATION: 765± (GOOGLE EARTH)
 * INFORMATION PROVIDED USCC
 ** INFORMATION FROM GOOGLE EARTH

TOWER TYPE: 60'-0" MONOPINE
 LOADING TYPE: DX210F-CDMA/
 NOKIA C-BAND & DoD
 ACCESS ISSUES: 7CI KEY AND MAN LIFT REQUIRED
 GATE COMBO: 8722



Know what's below.
 Call before you dig

INDEX OF SHEETS

NO.	SHEET TITLE	REV
T-1	TITLE SHEET	3
C-1	SITE PLAN	3
C-2	COMPOUND DETAIL	3
C-3	SHELTER DETAIL	3
C-4	TOWER ELEVATION	3
C-5	HATCH PLATE & ICE BRIDGE DETAILS	3
C-6	COAX LAYOUT	3
C-7	GROUND BAR DETAILS	3
C-8	ANTENNA MOUNTING DETAIL	3
C-9	RAYCAP & RRH LAYOUT	3
C-10	PLUMBING DIAGRAM I	3
C-11	PLUMBING DIAGRAM II	3
C-12	SHELTER BLOCK DIAGRAM	3
C-13	C-BAND AND DOD SPECIFICATIONS	3
C-14	FIBER AND COAX LABELLING STANDARDS I	3
C-15	FIBER AND COAX LABELLING STANDARDS II	3
N-1	GENERAL NOTES	3
-	-	-
-	-	-

STRUCTURAL NOTE

STRUCTURAL STATUS:

- TOWER SA - PASSING (DECEMBER 07, 2022)
- MOUNT SA - PASSING (DECEMBER 09, 2022)

SCOPE OF WORK

TOWER SCOPE:

- EXISTING EQUIPMENT TO REMAIN:
- (6) DENGYO OCT8-2LX2HX-BW65 LTE PANEL ANTENNAS
 - (3) NOKIA AHLOA B12/B71 RRHs
 - (3) NOKIA AHFIB B2/B66 RRHs
 - (2) NOKIA FXCB B5 RRHs
 - (2) RAYCAPS RUSDC-6267-PF-48
 - (2) 1 1/2" HYBRID CABLES
 - (6) FH 7/8" CDMA COAX

PROPOSED EQUIPMENT:

- (3) NOKIA AQOK C-BAND RRH W/ INTEGRATED ANTENNA
- (3) NOKIA AEQU DoD RRH W/ INTEGRATED ANTENNA
- (1) RAYCAP RUSDC-6267-PF-48
- (1) 1 1/2" HYBRID CABLE

C-BAND/DoD JUMPERS:

- (3) FIBER JUMPERS FROM RAYCAP TO C-BAND RRHs
- (3) FIBER JUMPERS FROM RAYCAP TO DoD RRHs
- (3) POWER JUMPERS FROM RAYCAP TO C-BAND RRHs
- (3) POWER JUMPERS FROM RAYCAP TO DoD RRHs

TOP TOWER GROUND BAR:

UNABLE TO DETERMINE IF MONOPINE HAS AN EXISTING GROUND BAR.
 PROPOSED GROUND BAR REQUIRED.

BOTTOM TOWER GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SHELTER EXTERIOR SCOPE:

ICE BRIDGE:
 CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE, (1) GPS CABLE AND (1) GPS.

SHELTER COAX PORT:

CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE AND (1) GPS CABLE.

SHELTER EXTERIOR GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SHELTER INTERIOR SCOPE:

EXISTING EQUIPMENT:

- (1) RAYCAP RUSDC-6267-PF-48 TO REMAIN
- (1) RAYCAP RUSDC-8999-P-48 TO BE REMOVED
- (1) RAYCAP SURGE/PDU BOX TO REMAIN ON POWER BAY

PROPOSED EQUIPMENT:

- (1) PROPOSED RAYCAP FIBER SLACK TRAY
- (1) PROPOSED RAYCAP SURGE/PDU BOX (BY OTHERS)

SHELTER INTERNAL GROUND BAR:

CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

SPECIAL REQUIREMENTS:

ANTENNA AZIMUTHS:
 PROPOSED C-BAND AND DoD RRHs TO BE INSTALLED AT THE DESIGN AZIMUTH. AZIMUTH CHANGES MUST BE PRE SCHEDULED WITH USCC.

ANTENNA MOUNT:

EXISTING MOUNT HAS SUFFICIENT CAPACITY TO HOLD PROPOSED LOADING. SEE APPURTENANCE MOUNT ANALYSIS BY TEP, DATED DECEMBER 09, 2022 FOR MORE DETAILS.

ANTENNA CONFIGURATION:

PROPOSED C-BAND AND DoD RRHs TO BE INSTALLED AT 58'-0" AND PLACED ON MOUNT POSITIONS A2, B2 AND G2.

LIGHTNING ROD:

CONTRACTOR TO INSTALL 5' LIGHTNING ROD ON TOP OF TOWER. SEE SHEET C-4 FOR DETAILS.

DECOMMISSIONED EQUIPMENT REMOVAL:

- EQUIPMENT REMOVAL:
- (4) ANTEL LPA-80063-8CF-EDIN CDMA PANEL ANTENNAS
 - (2) ANTEL RWA-80017 LS E DL CDMA PANEL ANTENNAS
 - (2) RAYCAP RUSDC-8999-P-48 (FROM SHELTER AND TOWER)
 - (1) 1" POWER CABLE

*POST-INTEGRATION

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
 CHICAGO, IL 60631
 (773) 399-8900

PROJECT INFORMATION:

**568452
 UKIAH CAP 2**

1500 LAKE MENDOCINO DRIVE
 UKIAH, CA 95482
 (MENDOCINO COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:



February 8, 2023

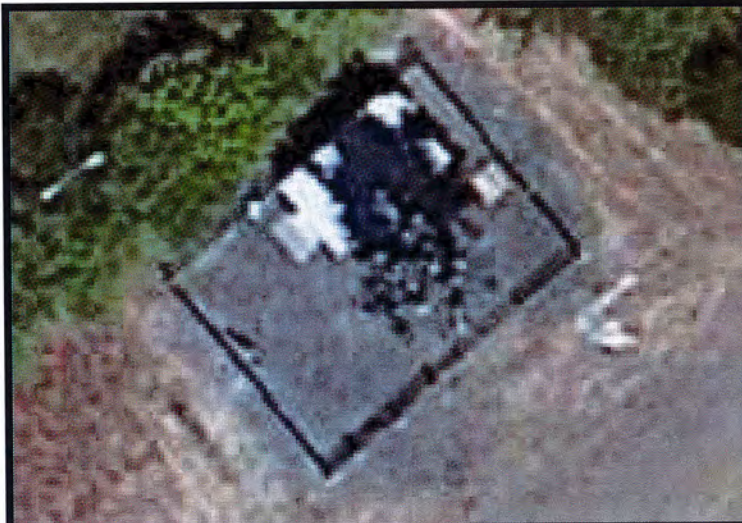
REV	DATE	ISSUED FOR:
3	02-08-23	CONSTRUCTION
2	01-31-23	PRELIMINARY
1	01-19-23	PRELIMINARY

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:	REVISION:
T-1	3
TEP#: 25217.743352	



BIRD'S EYE AERIAL OVERVIEW



SITE OVERVIEW



COMPOUND SIGNAGE

NOTES:

1. SITE PLAN CREATED FROM SURVEY DATED JULY 19, 2006 BY WILLIAM P. COILSCH.
2. SURVEY LISTED ABOVE WAS PROVIDED BY USCC AND IS NOT CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS' SURVEYING SERVICES AND/OR ITS LAND SURVEYING PROFESSIONALS.



SITE PLAN

SCALE: N.T.S

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

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DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

SITE PLAN

SHEET NUMBER: C-1	REVISION: 3
TEP#: 25217.743352	



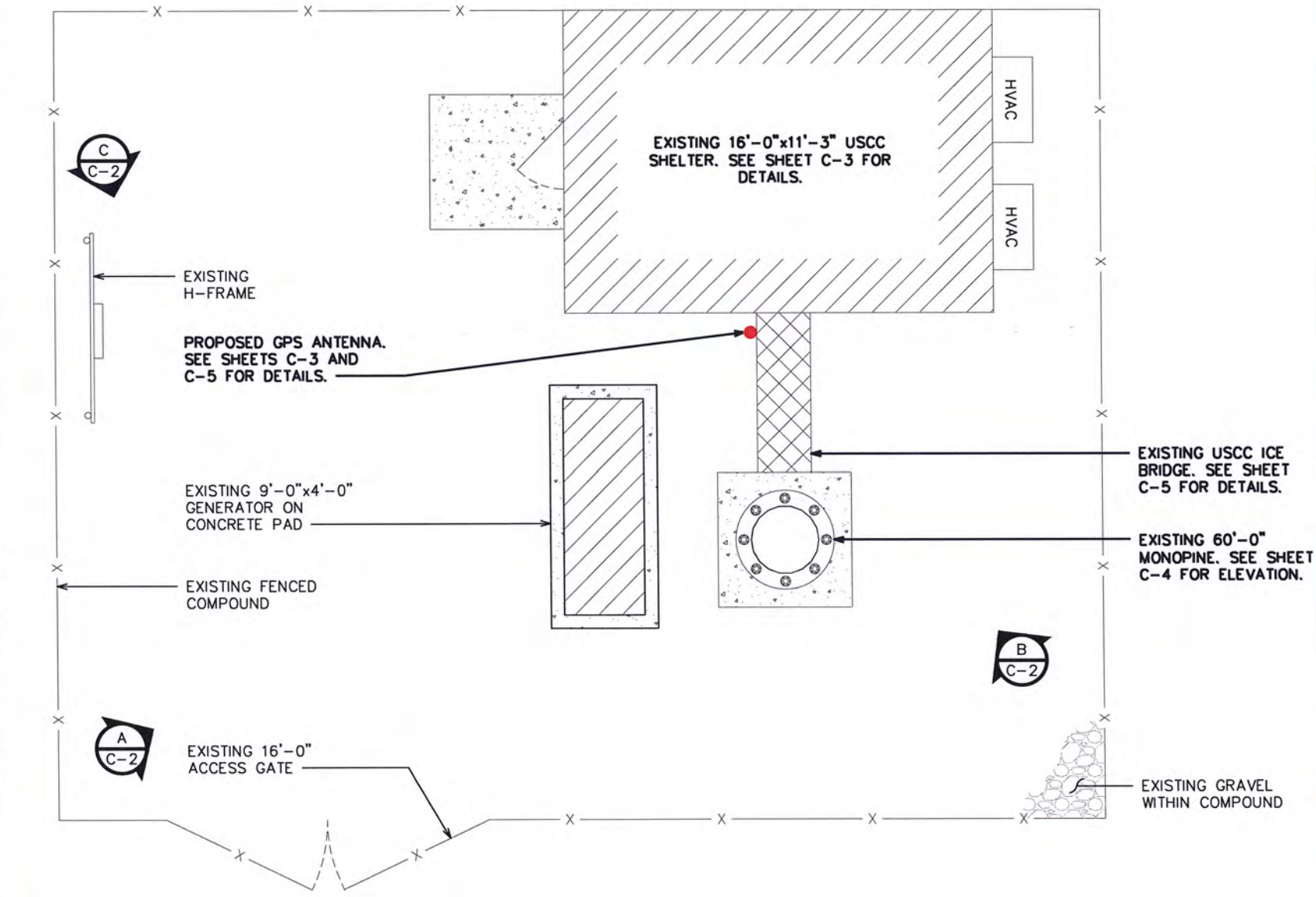
COMPOUND VIEW "A"



COMPOUND VIEW "B"

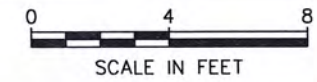


COMPOUND VIEW "C"



COMPOUND DETAIL

SCALE: 3/16" = 1'-0"



PLANS PREPARED FOR:

uscellular

8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

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DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

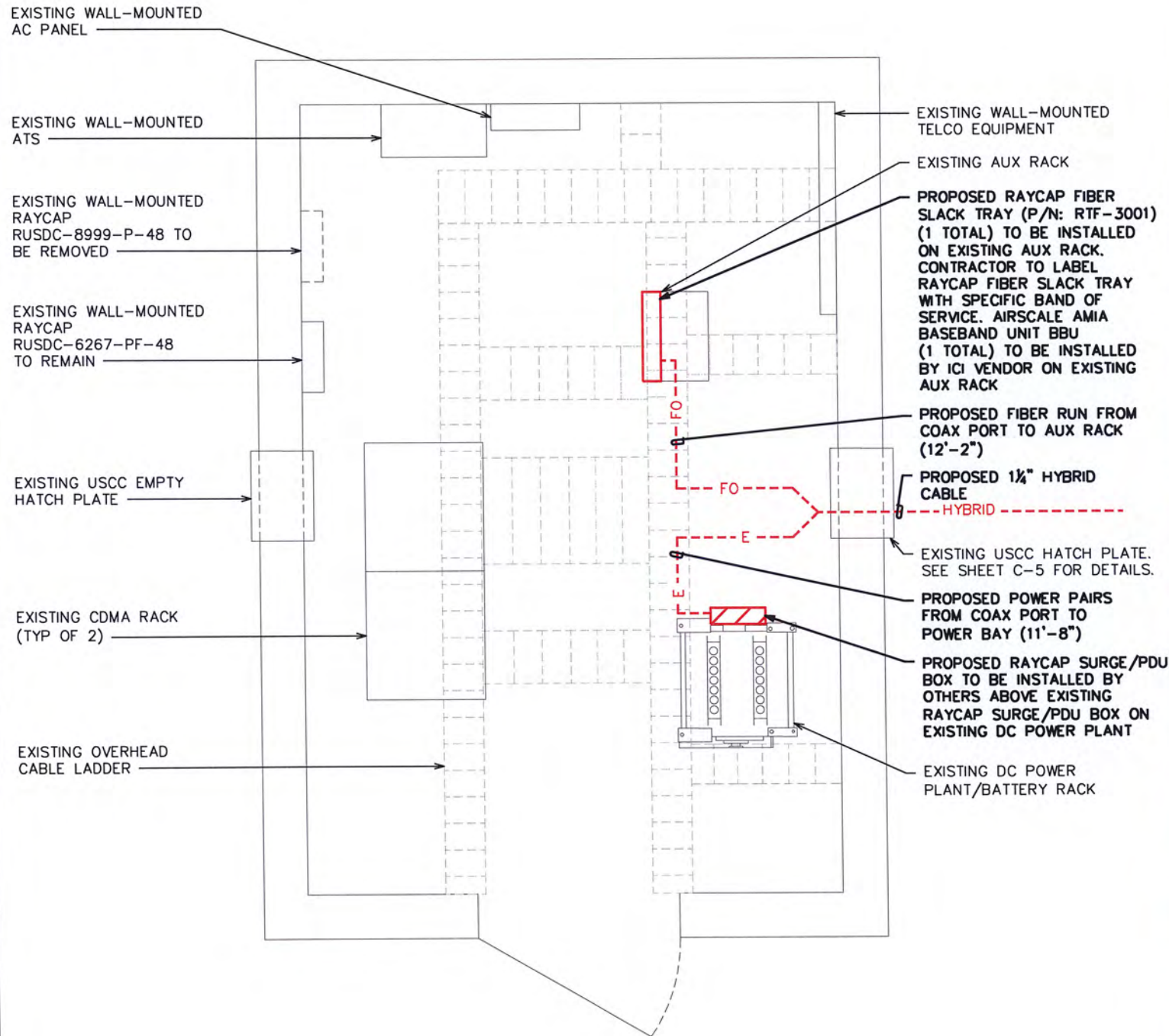
COMPOUND DETAIL

SHEET NUMBER: **C-2** REVISION: **3**

TEP#: 25217.743352

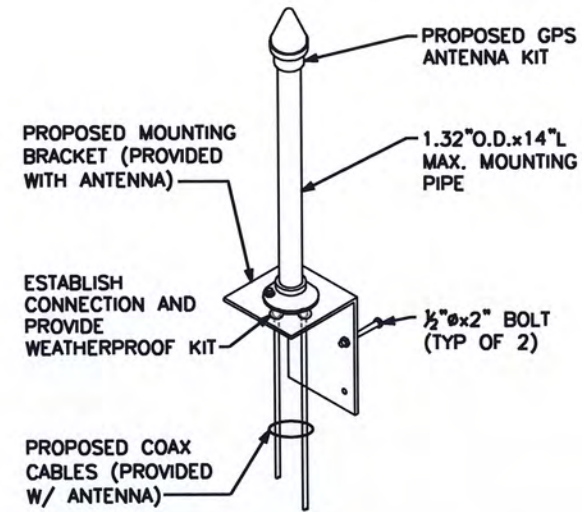
NOTE:

CONTRACTOR TO REMOVE OUTER JACKET OF HYBRID CABLE AT THE COAX PORT TO EXPOSE THE FIBER AND POWER RUNS. FIBER RUNS ARE TO BE ROUTED TO THE AUXILIARY RACK AND THE POWER RUNS ARE TO BE ROUTED TO THE RAYCAP/PDU BOX ON THE POWER BAY.



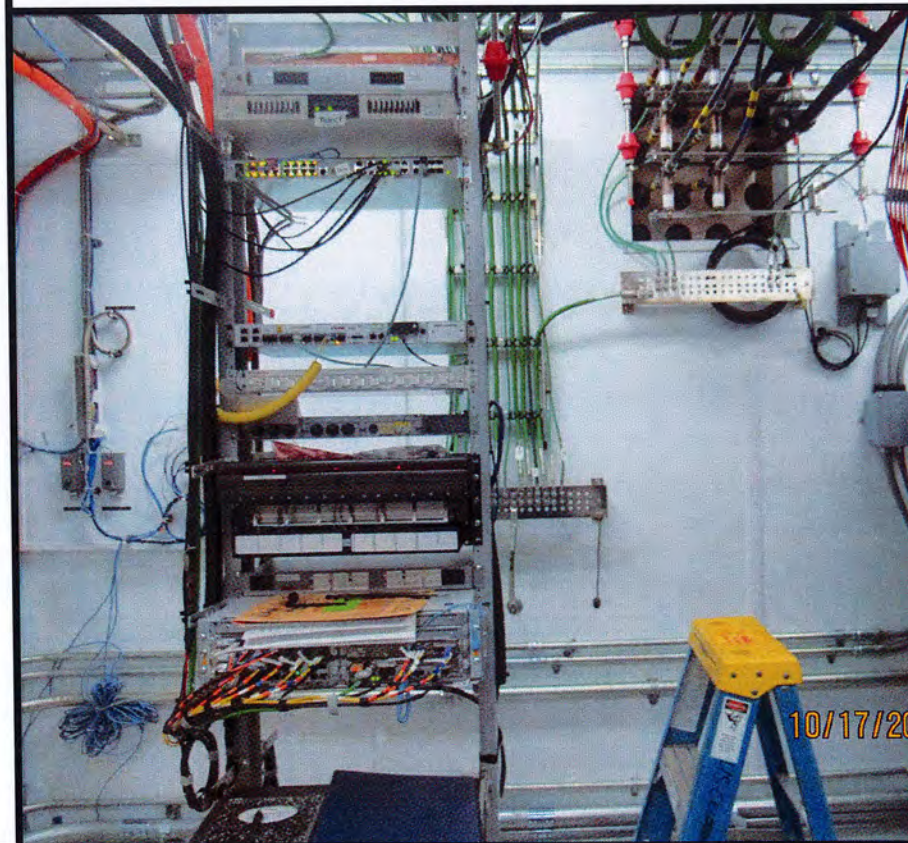
NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

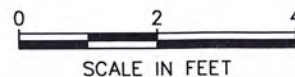


GPS ANTENNA KIT DETAIL

SCALE: N.T.S.



EXISTING AUX RACK LOCATION



INTERIOR SHELTER LAYOUT

SCALE: 3/8" = 1'-0"

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

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DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

SHELTER DETAIL

SHEET NUMBER:	REVISION:
C-3	3
TEP#: 25217.743352	

EUPEN HYBRID CABLE LENGTH




PROPOSED HYBRID CABLE QUANTITY:	1
EXISTING HYBRID CABLE QUANTITY:	2
EXISTING POWER CABLE QUANTITY:	1
LONGEST ROUTE TO COAX PORT IN SHELTER:	13-FT
ICE BRIDGE LENGTH:	8-FT
RAYCAP CENTERLINE + 12-FT BUFFER:	67-FT
TOTAL ESTIMATED LENGTH OF HYBRID CABLE:	88-FT
TOTAL EST. LENGTH OF HYBRID CABLE (ROUNDED UP):	100-FT

JUMPER INFO

JUMPER QUANTITIES		
FIBER JUMPERS:	6	
COAX JUMPERS:	0	
RET JUMPERS:	0	
FIBER JUMPER LENGTH FROM RAYCAP TO RRH		
	C-BAND	DoD
ALPHA SECTOR:	10-M	10-M
BETA SECTOR:	10-M	10-M
GAMMA SECTOR:	10-M	10-M

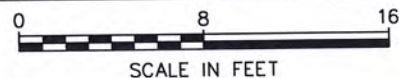
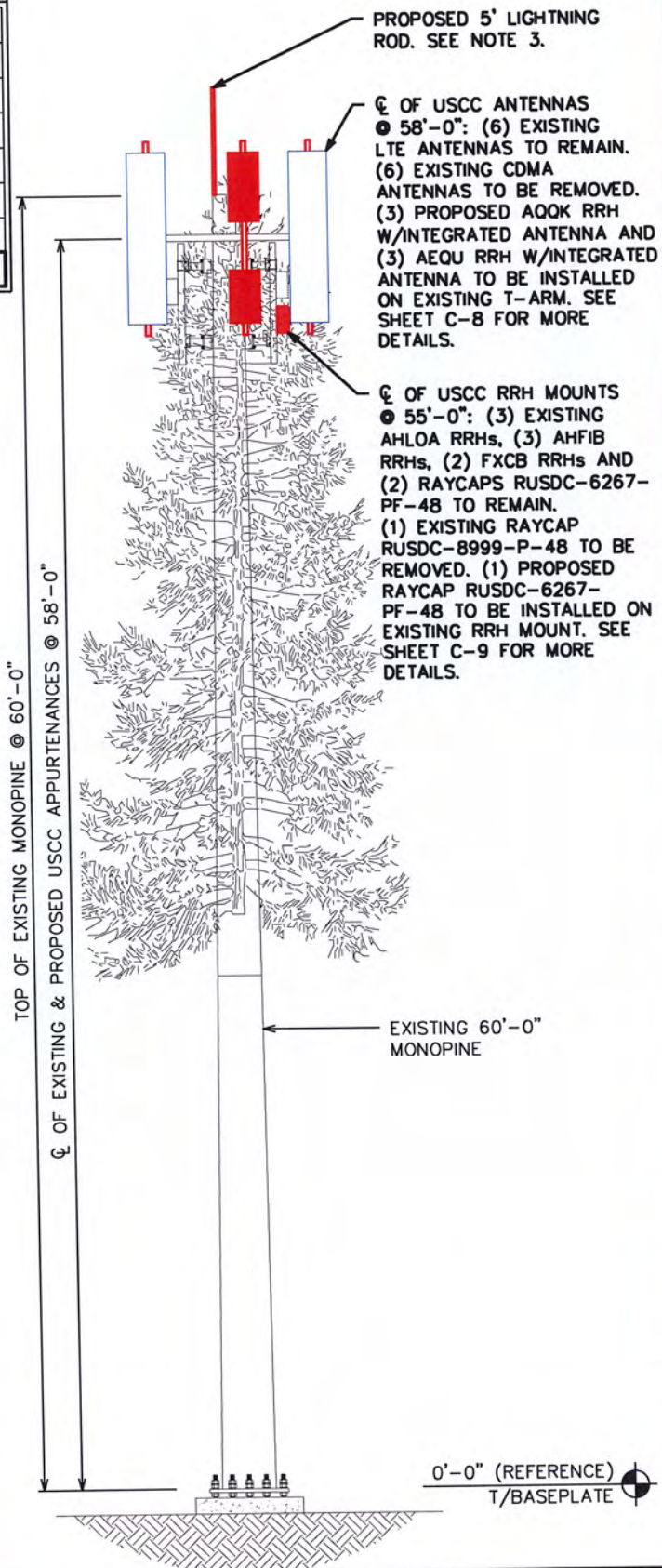
NOTES:

- EXISTING AND PROPOSED USCC ANTENNAS ARE TO BE VERTICALLY CENTERED ON ANTENNA MOUNT.
- PROPOSED ANTENNAS TO BE PAINTED TO MATCH EXISTING ANTENNAS
- CONTRACTOR TO INSTALL 5' LIGHTNING ROD ON TOP OF TOWER. CONTRACTOR TO ENSURE LIGHTNING ROD HAS MINIMUM 2' CLEARANCE ABOVE NEXT HIGHEST APPURTENANCE.

EXISTING LTE PANEL TO REMAIN:	
EXISTING CDMA PANEL TO REMAIN:	
PROPOSED C-BAND/DoD PANEL TO BE INSTALLED:	

PROPOSED TOWER ELEVATION

SCALE: 1/8" = 1'-0"



EXISTING TOWER ELEV.



EXISTING ALPHA SECTOR



EXISTING BETA SECTOR



EXISTING GAMMA SECTOR

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



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SEAL:



February 8, 2023

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1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER: **C-4** REVISION: **3**

TEP#: 25217.743352

NOTES:

- ALL VIEWS ARE LOOKING FROM THE TOWER TOWARDS THE SHELTER.
- ANALOG COAX (IF APPLICABLE) TO BE REMOVED IS LABELED WITH GREEN TAPE.

LEGEND

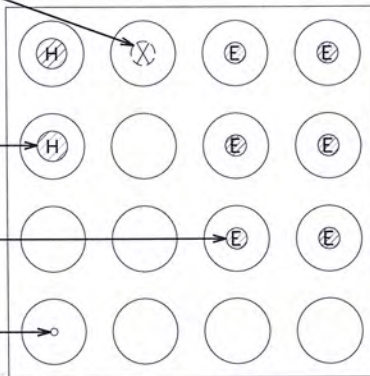
EMPTY PORT	○
EXISTING CABLE TO REMAIN	⊕
EXISTING CABLE TO BE REMOVED	⊗
PROPOSED HYBRID	⊙
EXISTING EWG	⊘
PROPOSED EWG	●

EXISTING 1" POWER CABLE TO BE REMOVED

EXISTING USCC 1 1/4" HYBRID CABLE TO REMAIN (TYP OF 2)

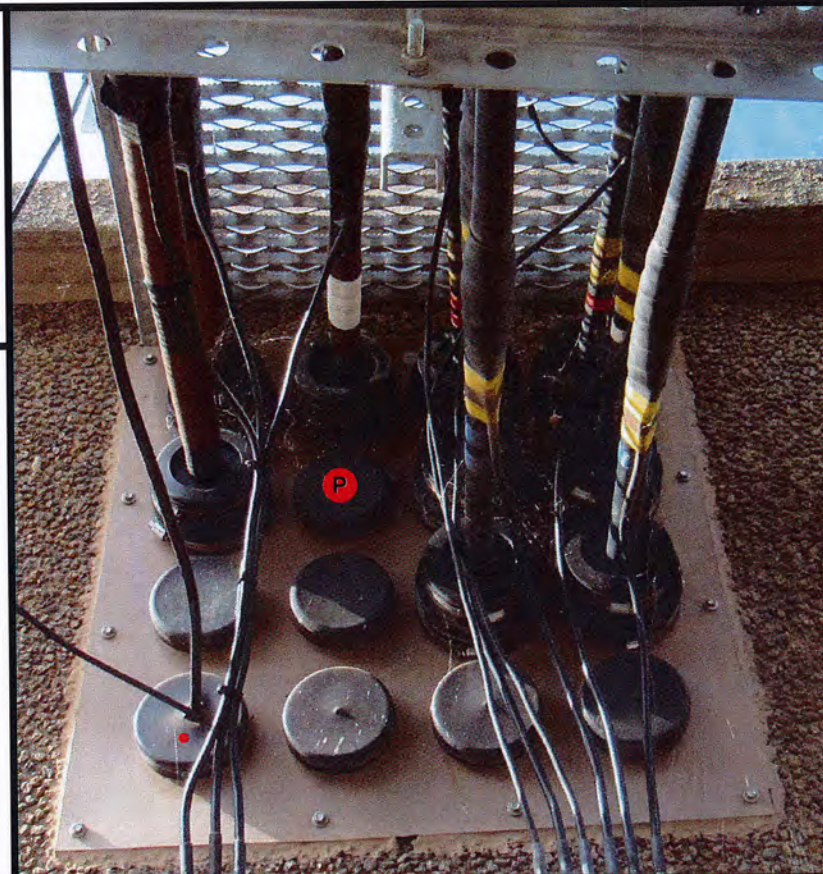
EXISTING FH 7/8" CDMA COAX TO REMAIN (TYP OF 6)

EXISTING GPS CABLE TO REMAIN



EXISTING HATCH PLATE LAYOUT

SCALE: N.T.S.



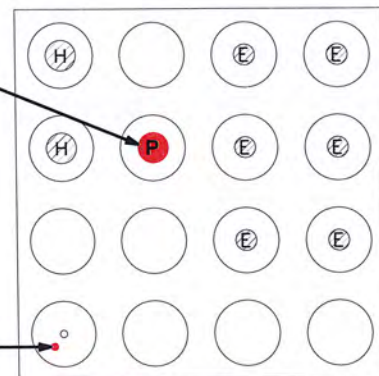
EXISTING HATCH PLATE

NOTE:

CONTRACTOR TO VERIFY COAX LOCATION WITH STRUCTURAL ANALYSIS AND TOWER OWNER PRIOR TO INSTALLATION.

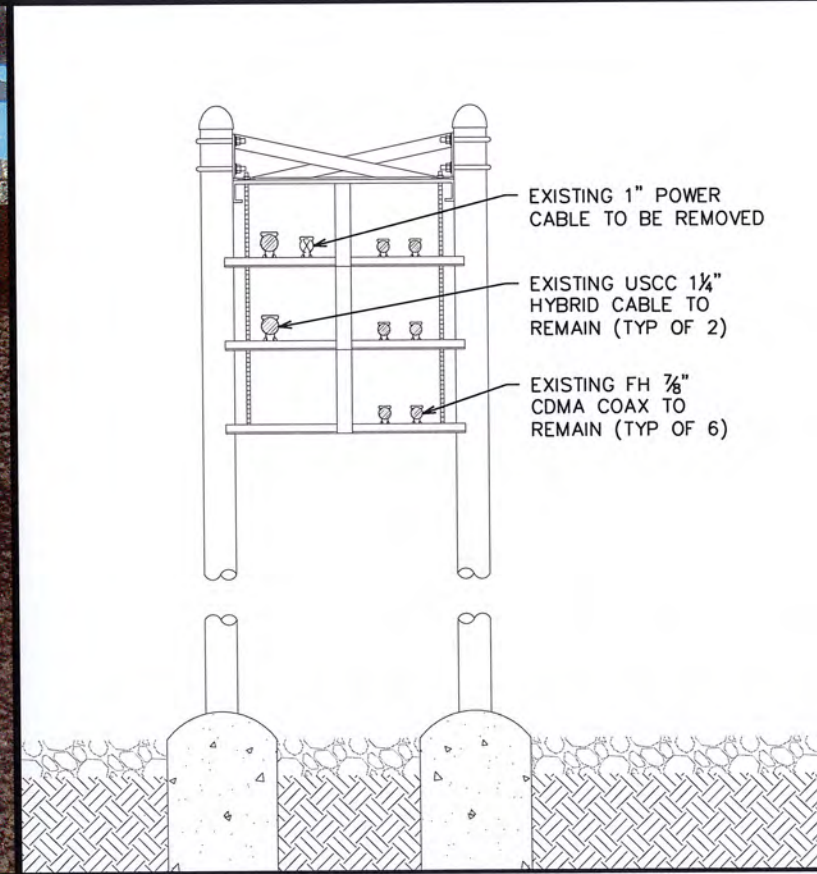
PROPOSED USCC 1 1/4" HYBRID CABLE

PROPOSED GPS CABLE



PROPOSED HATCH PLATE LAYOUT

SCALE: N.T.S.



EXISTING ICE BRIDGE CONFIGURATION

SCALE: N.T.S.

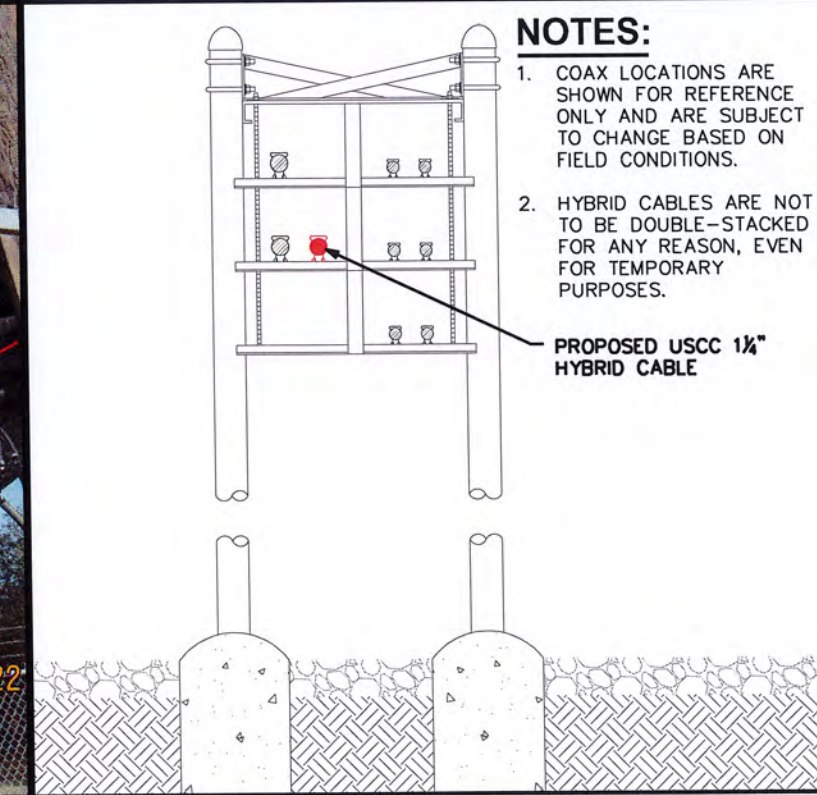


EXISTING ICE BRIDGE ELEVATION

NOTES:

- COAX LOCATIONS ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
- HYBRID CABLES ARE NOT TO BE DOUBLE-STACKED FOR ANY REASON, EVEN FOR TEMPORARY PURPOSES.

PROPOSED USCC 1 1/4" HYBRID CABLE



PROPOSED ICE BRIDGE CONFIGURATION

SCALE: N.T.S.

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



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SEAL:



February 8, 2023






3	02-08-23	CONSTRUCTION
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1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

HATCH PLATE & ICE BRIDGE DETAILS

SHEET NUMBER:	REVISION:
C-5	3
TEP#: 25217.743352	

LEGEND	
EXISTING CABLE TO REMAIN	
EXISTING CABLE TO BE REMOVED	
PROPOSED HYBRID	
EXISTING EWG	
PROPOSED EWG	



PLANS PREPARED FOR:

 8410 W BRYN MAWR SUITE 700
 CHICAGO, IL 60631
 (773) 399-8900

PROJECT INFORMATION:
568452
UKIAH CAP 2
 1500 LAKE MENDOCINO DRIVE
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 (MENDOCINO COUNTY)

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LEGEND

SCALE: N.T.S.

USCC HANDHOLE

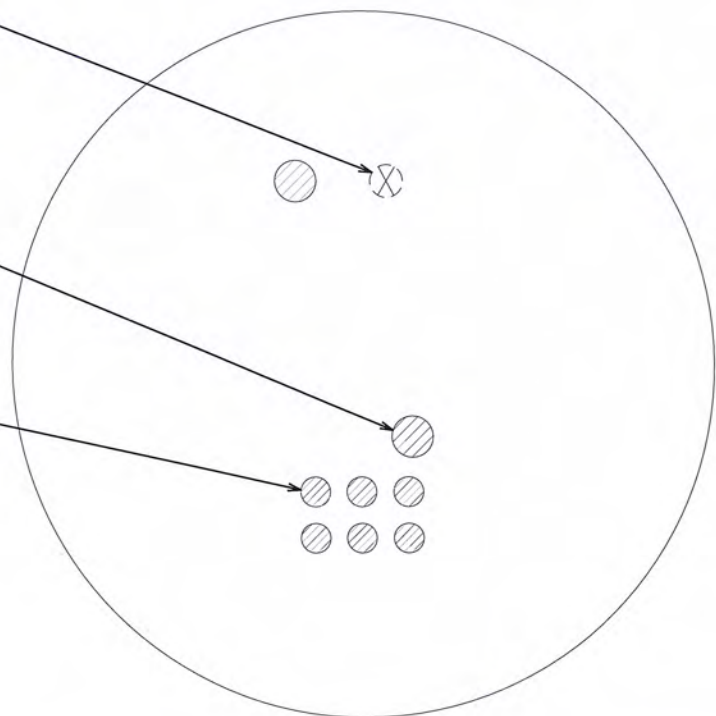
NOTES:

1. CONTRACTOR TO VERIFY COAX LOCATION WITH STRUCTURAL ANALYSIS AND TOWER OWNER PRIOR TO INSTALLATION.
2. HYBRID CABLES ARE NOT TO BE DOUBLE-STACKED FOR ANY REASON, EVEN FOR TEMPORARY PURPOSES.

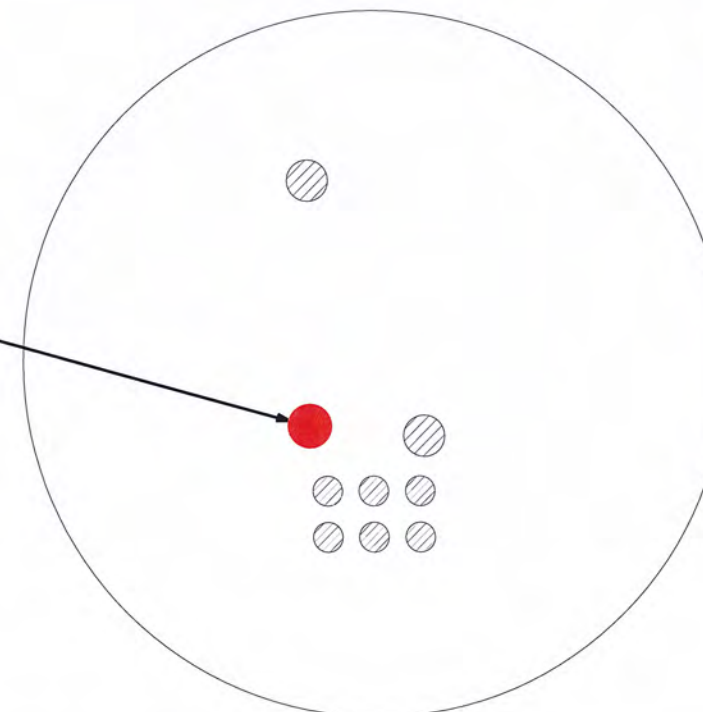
EXISTING 1" POWER CABLE TO BE REMOVED

EXISTING USCC 1/4" HYBRID CABLE TO REMAIN (TYP OF 2)

EXISTING FH 7/8" CDMA COAX TO REMAIN (TYP OF 6)

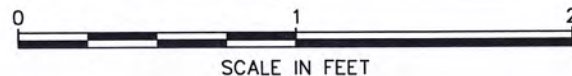


PROPOSED USCC 1/4" HYBRID CABLE TO BE ROUTED INSIDE MONOPINE. GC TO INSTALL HOISTING GRIPS AS NEEDED FOR PROPOSED HYBRID.



EXISTING COAX LAYOUT

SCALE: 1/2" = 1'



PROPOSED COAX LAYOUT

SCALE: 1/2" = 1'



SEAL:



February 8, 2023

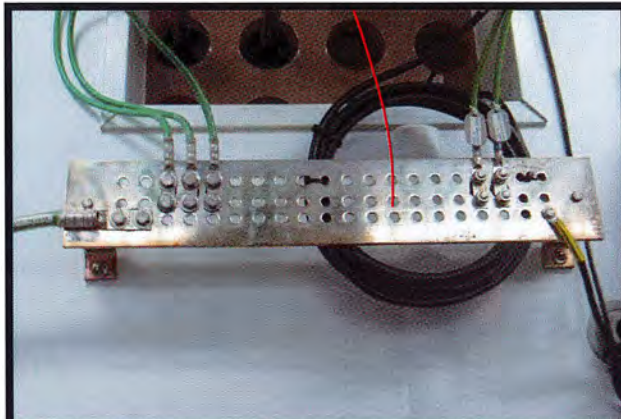
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2	01-31-23	PRELIMINARY
1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

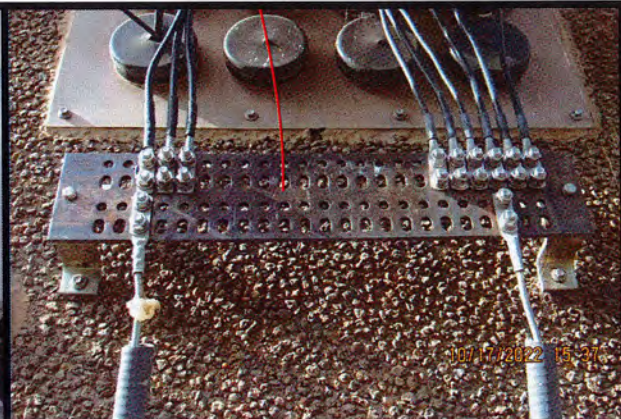
SHEET TITLE:

COAX LAYOUT

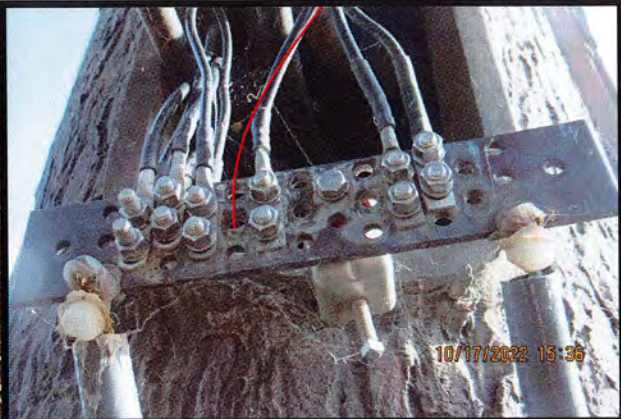
SHEET NUMBER: C-6	REVISION: 3 TEP#: 25217.743352
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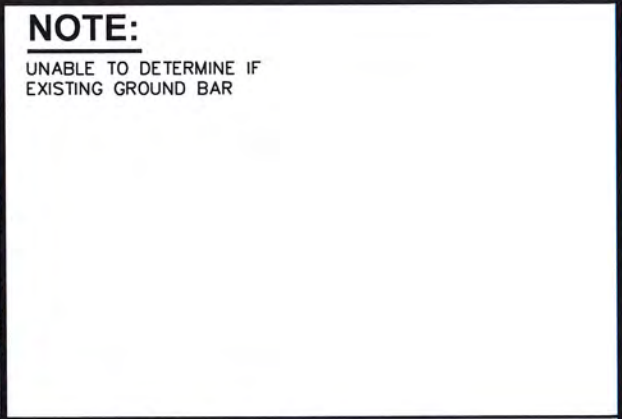
EXISTING INSIDE SHELTER



EXISTING OUTSIDE SHELTER



EXISTING BOTTOM TOWER



EXISTING TOP TOWER

NOTE:
UNABLE TO DETERMINE IF EXISTING GROUND BAR

PLANS PREPARED FOR:

8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

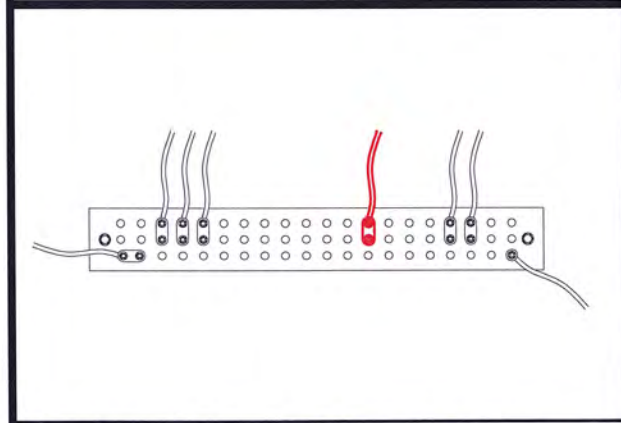
PROJECT INFORMATION:

**568452
UKIAH CAP 2**

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

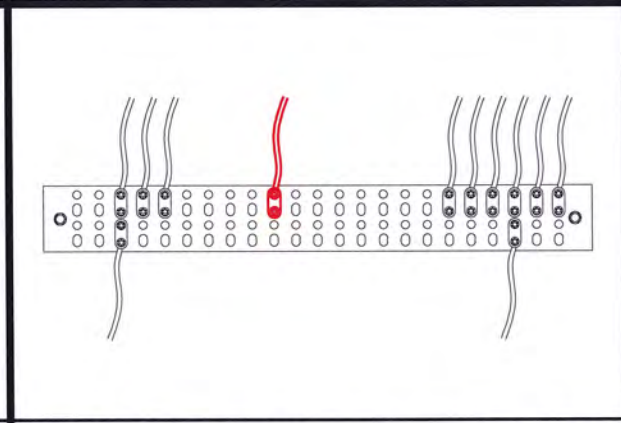
PLANS PREPARED BY:

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500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
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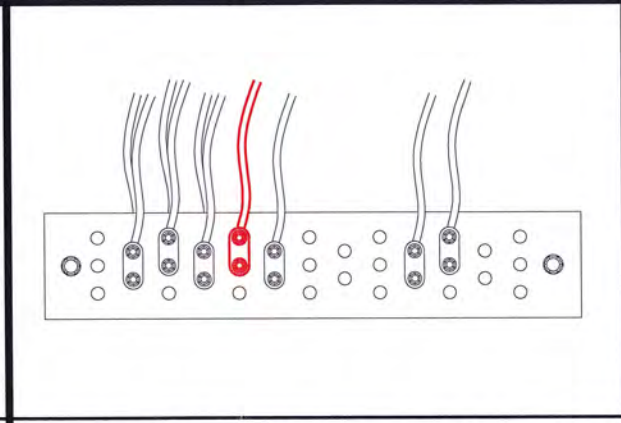
PROPOSED INSIDE SHELTER

SCALE: N.T.S.



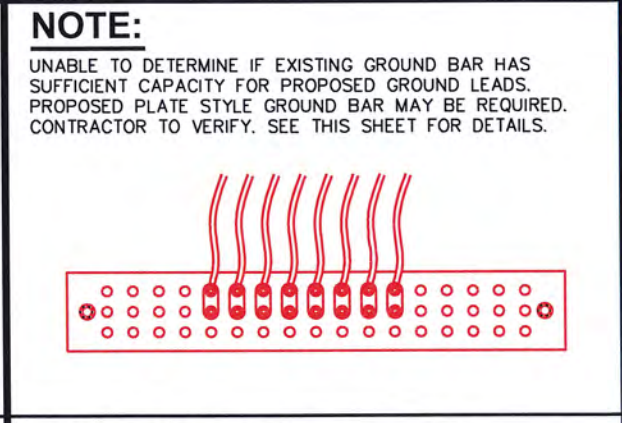
PROPOSED OUTSIDE SHELTER

SCALE: N.T.S.



PROPOSED BOTTOM TOWER

SCALE: N.T.S.



PROPOSED TOP TOWER

SCALE: N.T.S.

NOTE:
UNABLE TO DETERMINE IF EXISTING GROUND BAR HAS SUFFICIENT CAPACITY FOR PROPOSED GROUND LEADS. PROPOSED PLATE STYLE GROUND BAR MAY BE REQUIRED. CONTRACTOR TO VERIFY. SEE THIS SHEET FOR DETAILS.

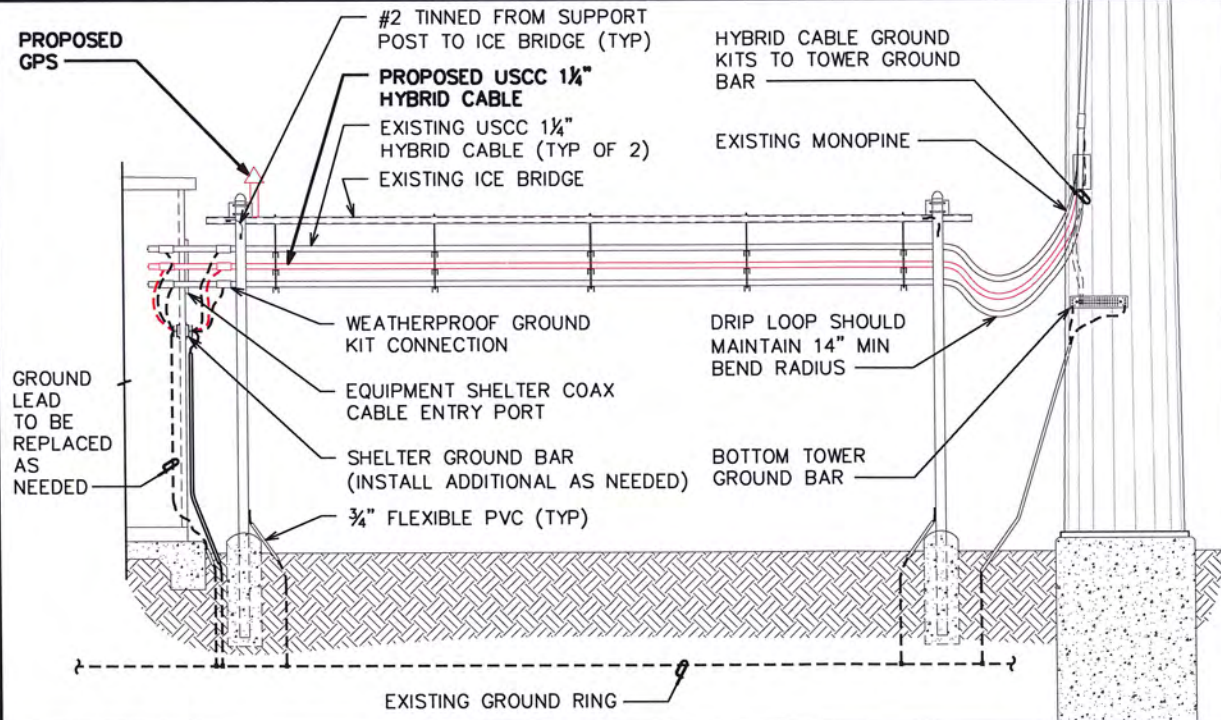
NOTES:

- MAX 20" GROUND BAR BY SITE PRO P/N: MG420U OR APPROVED EQUIVALENT
- ACCEPTS 3/8" LUGS
- 51-HOLES ALLOWS UP TO 17 RUNS
- 0.75", 0.815" OR 1" HOLE SPACING
- KIT INCLUDES INSULATORS AND STAINLESS STEEL BRACKETS
- CONTRACTOR TO REPLACE EXISTING LUGS AND GROUND LUG WASHERS AS NEEDED.



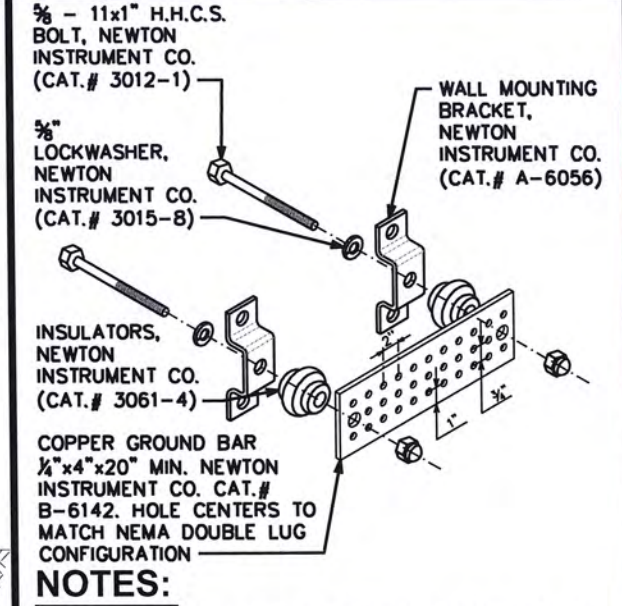
PROPOSED GND. BAR DETAIL

SCALE: N.T.S.



SIDE VIEW

SCALE: N.T.S.



STANDARD GND. BAR DETAIL

SCALE: N.T.S.

- NOTES:**
1. GROUND BAR SHALL BE SIZED TO ACCOMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY
 2. MINIMUM SPACING OF 12" BETWEEN ALL CADWELDS

SEAL:

February 8, 2023

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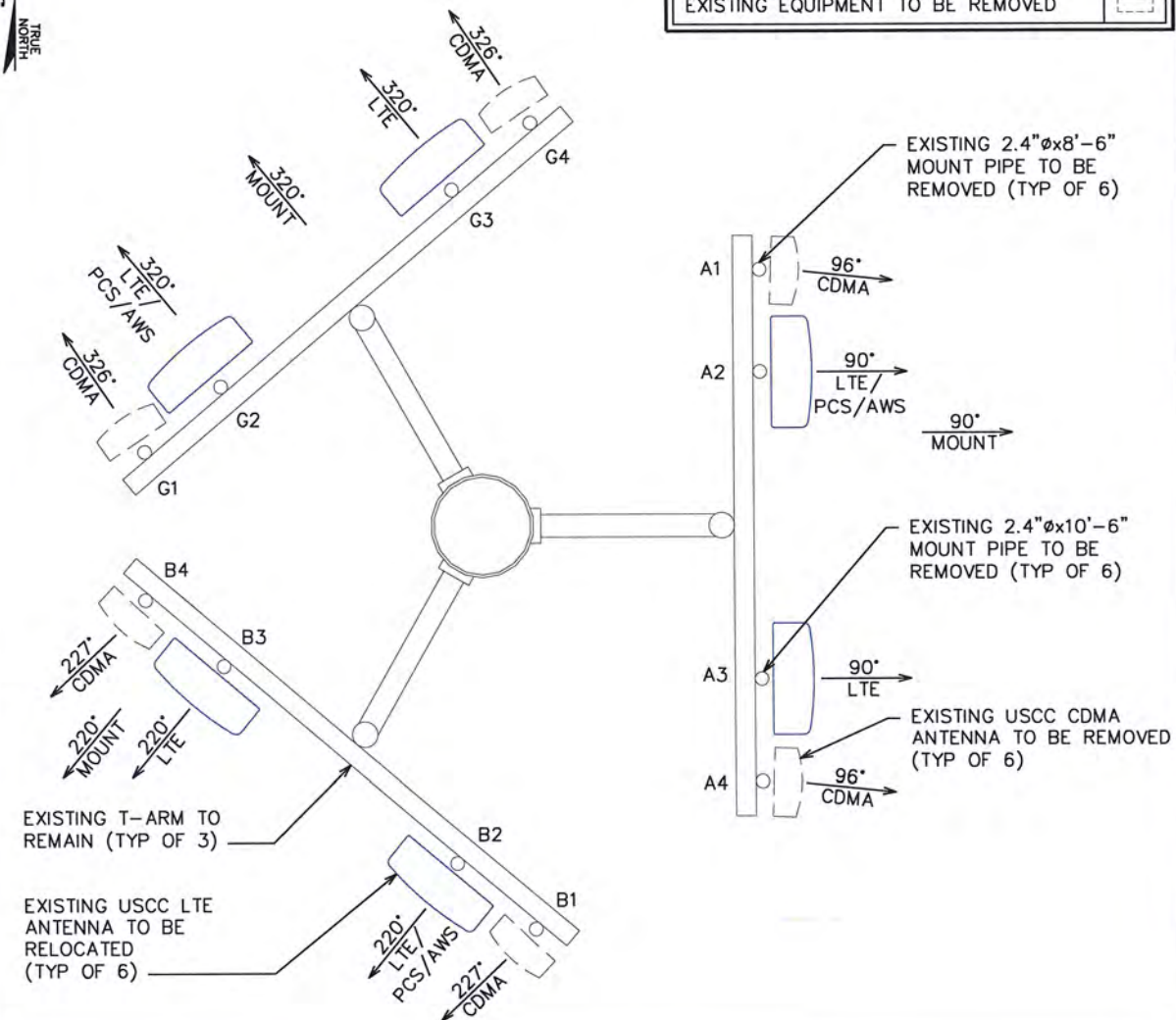
DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:
GROUND BAR DETAILS

SHEET NUMBER: C-7	REVISION: 3
TEP#: 25217.743352	

NOTE:

USCC ANTENNAS AND EQUIPMENT TO BE REMOVED POST-INTEGRATION

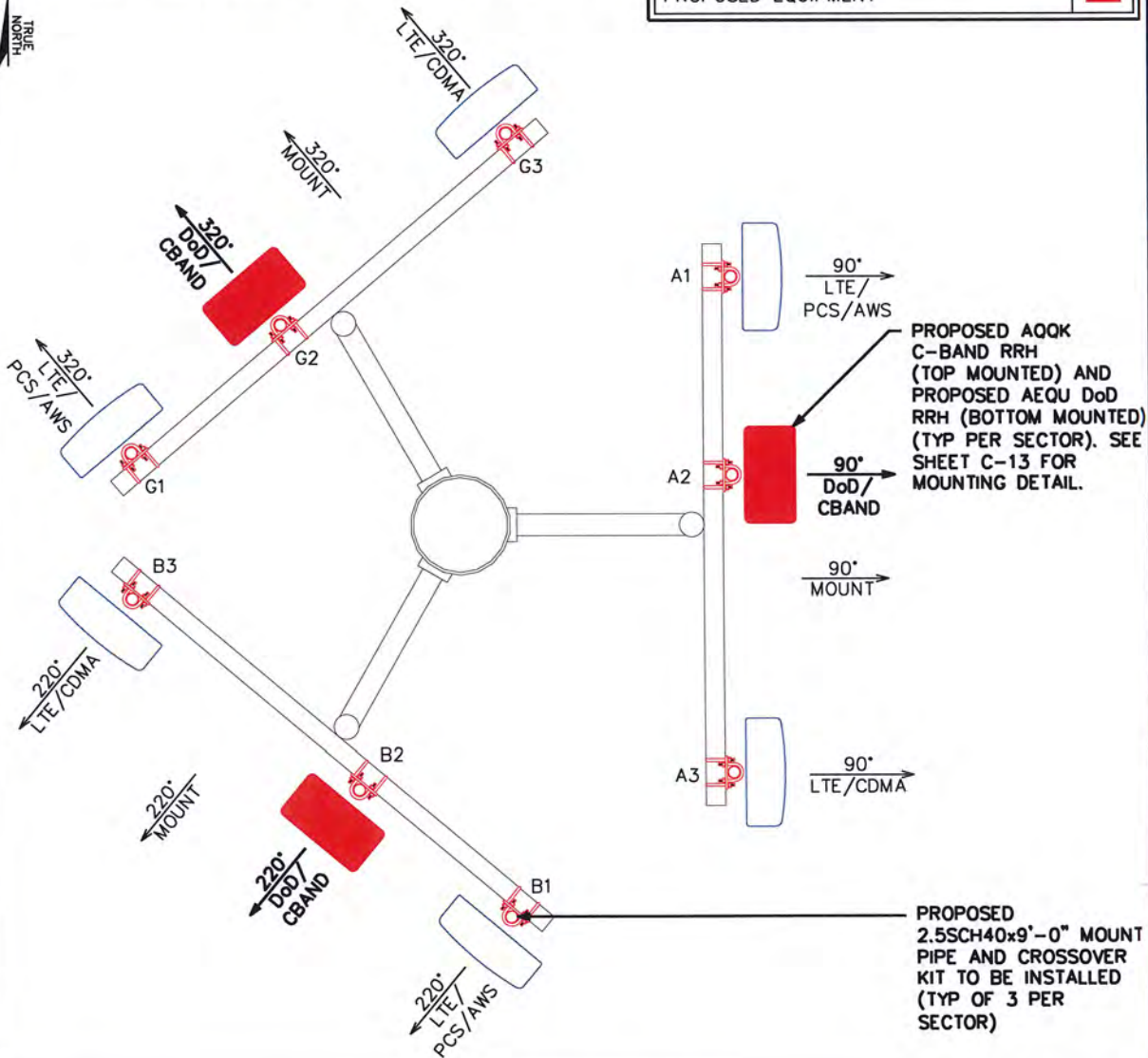


LEGEND	
EXISTING CDMA PANEL TO REMAIN	
EXISTING LTE PANEL TO REMAIN	
EXISTING LTE PANEL TO BE REMOVED	
EXISTING EQUIPMENT TO REMAIN	
EXISTING EQUIPMENT TO BE REMOVED	

NOTES:

1. MOUNT ANTENNAS & EQUIPMENT PER MANUFACTURERS SPECIFICATIONS.
2. MOUNT HAS SUFFICIENT CAPACITY TO SUPPORT PROPOSED EQUIPMENT. SEE TEP MOUNT STRUCTURAL ANALYSIS REPORT DATED DECEMBER 09, 2022.

LEGEND	
EXISTING CDMA PANEL ANTENNA	
EXISTING LTE PANEL ANTENNA	
PROPOSED C-BAND/DoD PANEL ANTENNA	
EXISTING EQUIPMENT	
PROPOSED EQUIPMENT	



PROPOSED LOADING																			
ANTENNA POSITION	TECH	ANTENNA MODEL	ANTENNA QTY.	RAD CENTER	AZIMUTH	MECH. D-TILT	ELEC. D-TILT (LB)	ELEC. D-TILT (MB)	SURGE PROTECTOR QTY.	CBAND RRH DoD RRH	RADIO QTY.	B12/B71 RADIO	RADIO QTY.	B2/B66 RADIO	RADIO QTY.	B5 RADIO	RADIO QTY.	CABLE TYPE	CABLE QTY.
A1	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	90°	-	-	-	1	-	-	AHLOA	1	AHFIB	1	-	-	1 1/2" HYBRID	1
A2	C-BAND DoD	AOKK (INTEGRATED ANTENNA) AEUQ (INTEGRATED ANTENNA)	-	60'-4" 95'-3"	90°	-	-	-	SHARED	AOKK AEUQ	1	-	-	-	-	-	-	1 1/2" HYBRID	SHARED
A3	LTE/CDMA	OCT8-2LX2HX-BW65	1	58'-0"	90°	-	-	-	1	-	-	-	-	-	-	-	-	FXCB SHARE	1 1/2" HYBRID 3/8" COAX
B1	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	220°	-	-	-	SHARED	-	-	AHLOA	1	AHFIB	1	-	-	1 1/2" HYBRID	SHARED
B2	C-BAND DoD	AOKK (INTEGRATED ANTENNA) AEUQ (INTEGRATED ANTENNA)	-	60'-4" 95'-3"	220°	-	-	-	SHARED	AOKK AEUQ	1	-	-	-	-	-	-	1 1/2" HYBRID	SHARED
B3	LTE/CDMA	OCT8-2LX2HX-BW65	1	58'-0"	220°	-	-	-	SHARED	-	-	-	-	-	-	-	-	FXCB	2 1 1/2" HYBRID 3/8" COAX
G1	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	320°	-	-	-	SHARED	-	-	AHLOA	1	AHFIB	1	-	-	1 1/2" HYBRID	SHARED
G2	C-BAND DoD	AOKK (INTEGRATED ANTENNA) AEUQ (INTEGRATED ANTENNA)	-	60'-4" 95'-3"	320°	-	-	-	1	AOKK AEUQ	1	-	-	-	-	-	-	1 1/2" HYBRID	1
G3	LTE/CDMA	OCT8-2LX2HX-BW65	1	58'-0"	320°	-	-	-	SHARED	-	-	-	-	-	-	-	-	FXCB SHARE	1 1/2" HYBRID 3/8" COAX
TOTALS:			8						3		6	3	3	3	2				9

* RED TEXT DENOTES PROPOSED EQUIPMENT
 ** CONTRACTOR TO CONFIRM FINAL LOADING PRIOR TO INSTALL
 *** CONTRACTOR TO REPLACE TOP HARDLINE CONNECTOR AND JUMPER ON CDMA ANTENNAS WHERE CONNECTION MUST BE BROKEN TO RELOCATE WHEN APPLICABLE.

PLANS PREPARED FOR:

8410 W BRYN MAWR SUITE 700
 CHICAGO, IL 60631
 (773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
 UKIAH, CA 95482
 (MENDOCINO COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:

February 8, 2023

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1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY:
		GSK

SHEET TITLE:

ANTENNA MOUNTING
DETAIL

SHEET NUMBER: **C-8**

REVISION: **3**

TEP#: 25217.743352

EXISTING LOADING															
ANTENNA POSITION	TECHNOLOGY	ANTENNA MODEL	ANTENNA QTY.	RAD CENTER	AZIMUTH	MECH. D-TILT	SURGE PROTECTOR QTY.	DIPLEXER QTY.	TMA QTY.	BIAS-T QTY.	RADIO	RADIO QTY.	CABLE TYPE	CABLE QTY.	
A1	CDMA	LPA-80063-BCF-EDN	1	58'-0"	96°	-	-	-	-	-	-	-	3/8" COAX	1	
A2	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	90°	-	1	-	-	-	AHLOA AHFIB	1	1 1/2" HYBRID	1	
A3	LTE	OCT8-2LX2HX-BW65	1	58'-0"	90°	-	1	-	-	-	FXCB	SHARED	1 1/2" HYBRID	1	
A4	CDMA	LPA-80063-BCF-EDN	1	58'-0"	96°	-	-	-	-	-	-	-	3/8" COAX	1	
B1	CDMA	LPA-80063-BCF-EDN	1	58'-0"	227°	-	-	-	-	-	-	-	3/8" COAX	1	
B2	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	220°	-	SHARED	-	-	-	AHLOA AHFIB	1	1 1/2" HYBRID	SHARED	
B3	LTE	OCT8-2LX2HX-BW65	1	58'-0"	220°	-	1	-	-	-	FXCB	2	1" POWER	1	
B4	CDMA	LPA-80063-BCF-EDN	1	58'-0"	227°	-	-	-	-	-	-	-	3/8" COAX	1	
G1	CDMA	RWA-80017 LS E DL	1	58'-0"	326°	-	-	-	-	-	-	-	3/8" COAX	1	
G2	LTE/PCS/AWS	OCT8-2LX2HX-BW65	1	58'-0"	320°	-	SHARED	-	-	-	AHLOA AHFIB	1	1 1/2" HYBRID	SHARED	
G3	LTE	OCT8-2LX2HX-BW65	1	58'-0"	320°	-	SHARED	-	-	-	FXCB	SHARED	1 1/2" HYBRID	SHARED	
G4	CDMA	RWA-80017 LS E DL	1	58'-0"	326°	-	-	-	-	-	-	-	3/8" COAX	1	
TOTALS:			12				3	0	0	0		8		9	

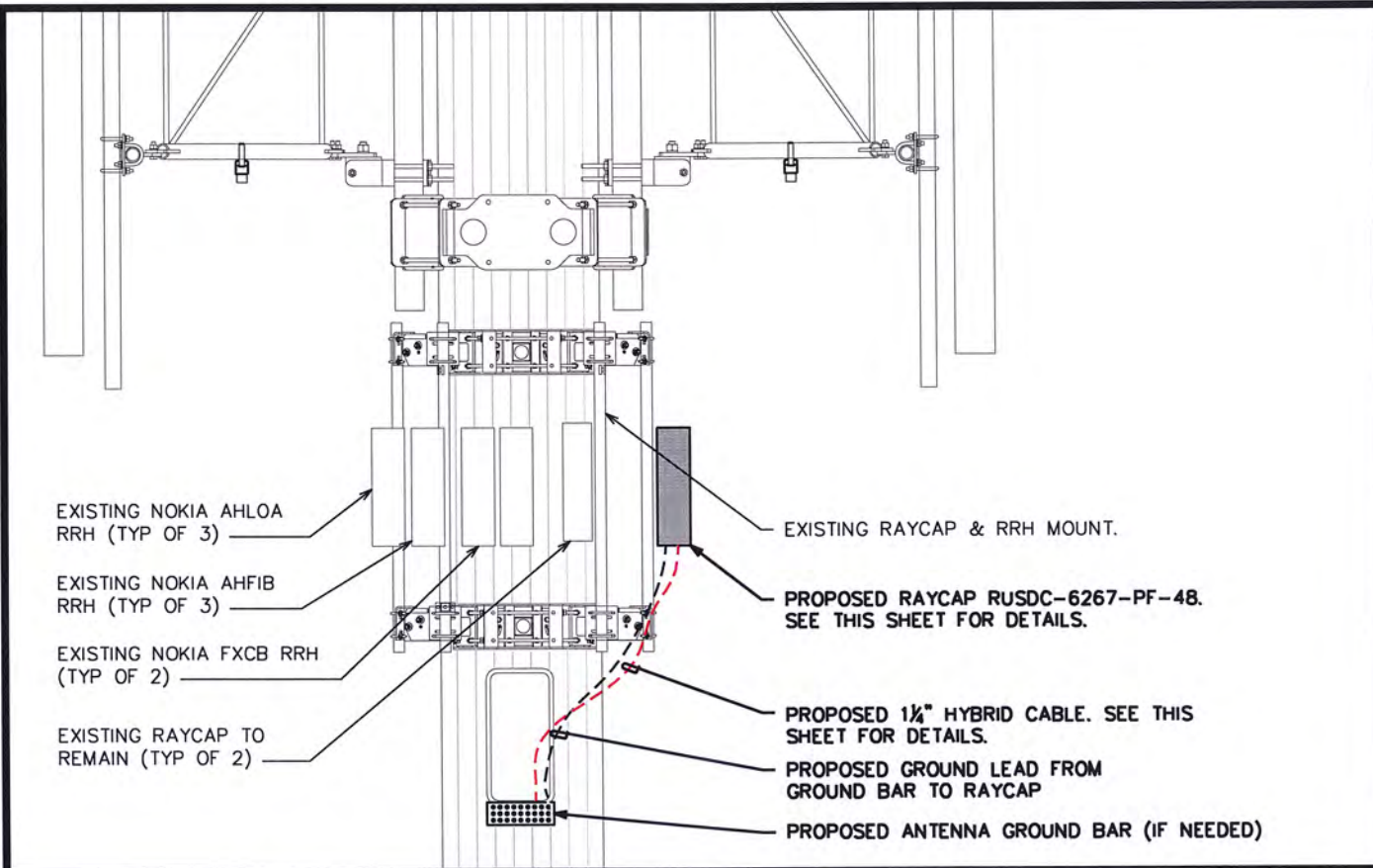
* BLUE TEXT DENOTES EQUIPMENT TO BE REMOVED

EXISTING ANTENNA ASSIGNMENT

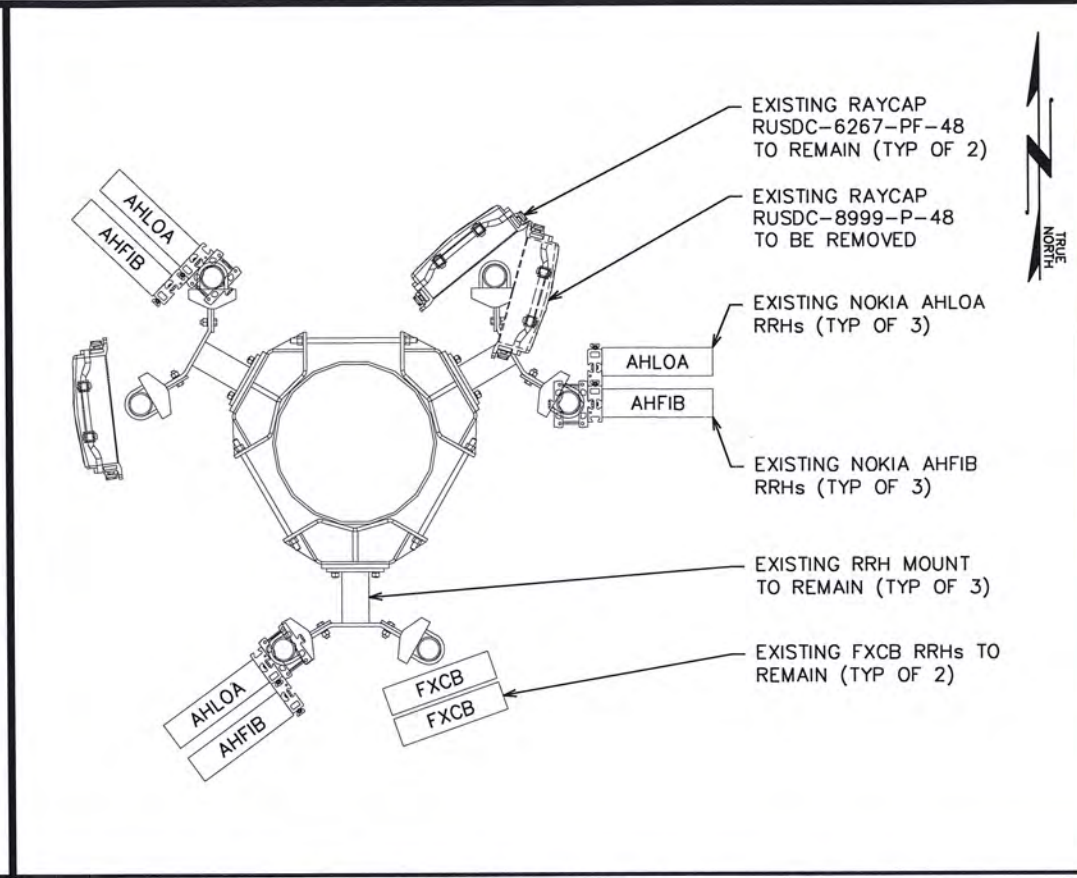
SCALE: 3/8" = 1'-0"

PROPOSED ANTENNA ASSIGNMENT

SCALE: 3/8" = 1'-0"



PROPOSED RAYCAP & RRH MOUNTING DETAIL (ELEVATION)
SCALE: N.T.S.



EXISTING RAYCAP & RRH MOUNTING DETAIL (PLAN)
SCALE: N.T.S.

NOTES:

- P/N: RUSDC-6267-PF-48
- 20.6"Hx18.9"Wx5.8"D
- 19.95 LBS.

REMOVE BRACKET AND USE ENCLOSURE MOUNTS FOR 1/4\"/>

FRONT VIEW **SIDE VIEW**

RAYCAP SPEC SHEET
SCALE: N.T.S.

NOTES:

- 1/4" FIBER OPTIC CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.
- MINIMUM BENDING RADIUS: 360mm (14")
- MAXIMUM PULLING STRENGTH: 150daN
- MAXIMUM HANGER SPACING: 1,0m
- APPROX WEIGHT: 2300kg/km (1.55LB/FT)
- SHIPPED W/4' PROTECTED JACKET (2.25" O.D.) AT EACH END
- NON-ARMORED ENDS ARE 3" IN LENGTH (2' O.D.)

EUPEN HYBRID CABLE
SCALE: N.T.S.

NOTES:

1. CONTRACTOR TO LEAVE OPENING FOR SAFETY CLIMB AND ENSURE SAFETY CLIMB IS NOT OBSTRUCTED/COMPROMISED.
2. TOWER TOP FIBER/POWER CONNECTIONS FROM RAYCAP TO RRH SHOULD BE SHIELDED IN 1" INTERDUCT (75' PROVIDED IN HYBRID KIT)

PROPOSED RAYCAP & RRH MOUNTING DETAIL (PLAN)
SCALE: N.T.S.

PLANS PREPARED FOR:

8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:

REV	DATE	ISSUED FOR:
3	02-08-23	CONSTRUCTION
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DRAWN BY: RSR CHECKED BY: GSK

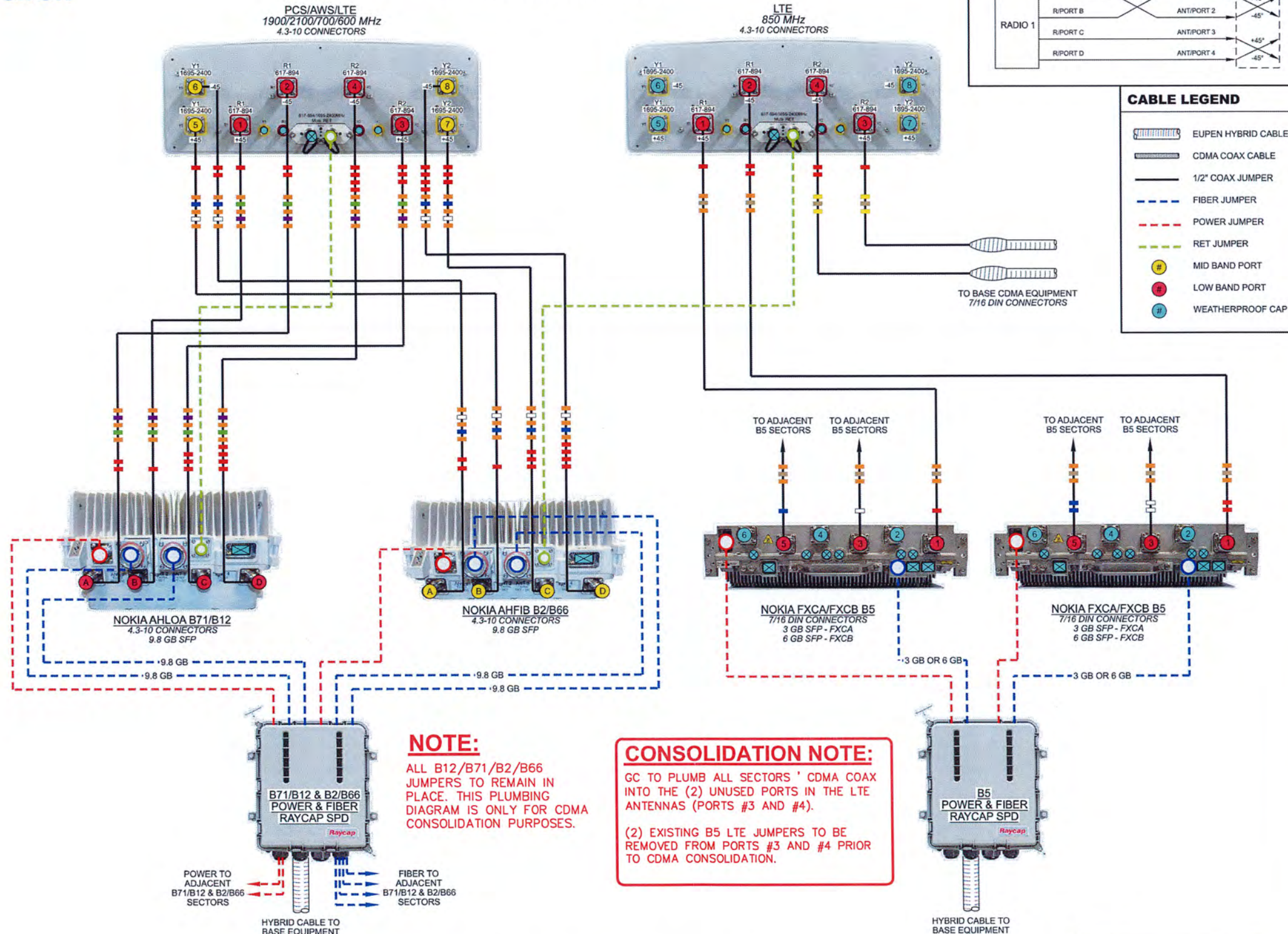
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RAYCAP & RRH LAYOUT

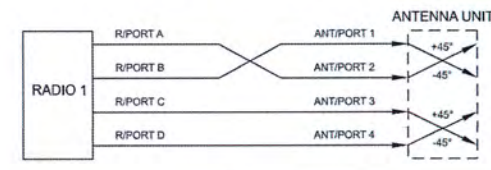
SHEET NUMBER: **C-9** REVISION: **3**
TEP#: 25217.743352



**NSN// B71/B12 / B2/B66 / B5
PER SECTOR CONFIGURATION**



ANT. TO AIRSCALE RADIO DE-CORRELATION



CABLE LEGEND

- EUPEN HYBRID CABLE
- CDMA COAX CABLE
- 1/2" COAX JUMPER
- FIBER JUMPER
- POWER JUMPER
- RET JUMPER
- MID BAND PORT
- LOW BAND PORT
- WEATHERPROOF CAP

NOTE:
ALL B12/B71/B2/B66 JUMPERS TO REMAIN IN PLACE. THIS PLUMBING DIAGRAM IS ONLY FOR CDMA CONSOLIDATION PURPOSES.

CONSOLIDATION NOTE:

GC TO PLUMB ALL SECTORS' CDMA COAX INTO THE (2) UNUSED PORTS IN THE LTE ANTENNAS (PORTS #3 AND #4).

(2) EXISTING B5 LTE JUMPERS TO BE REMOVED FROM PORTS #3 AND #4 PRIOR TO CDMA CONSOLIDATION.

- NOTES:**
- ALL JUMPERS BETWEEN RADIO UNITS & ANTENNAS MUST BE THE SAME LENGTH. CONTRACTOR TO INSTALL WEATHERPROOF CAP ON ALL UN-USED PORTS.

PLUMBING DIAGRAM: DX210F-CDMA

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DATE CREATED: 06/04/2021

PLUMBING DIAGRAM

SCALE: N.T.S.

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

**568452
UKIAH CAP 2**

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

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DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

PLUMBING DIAGRAM I

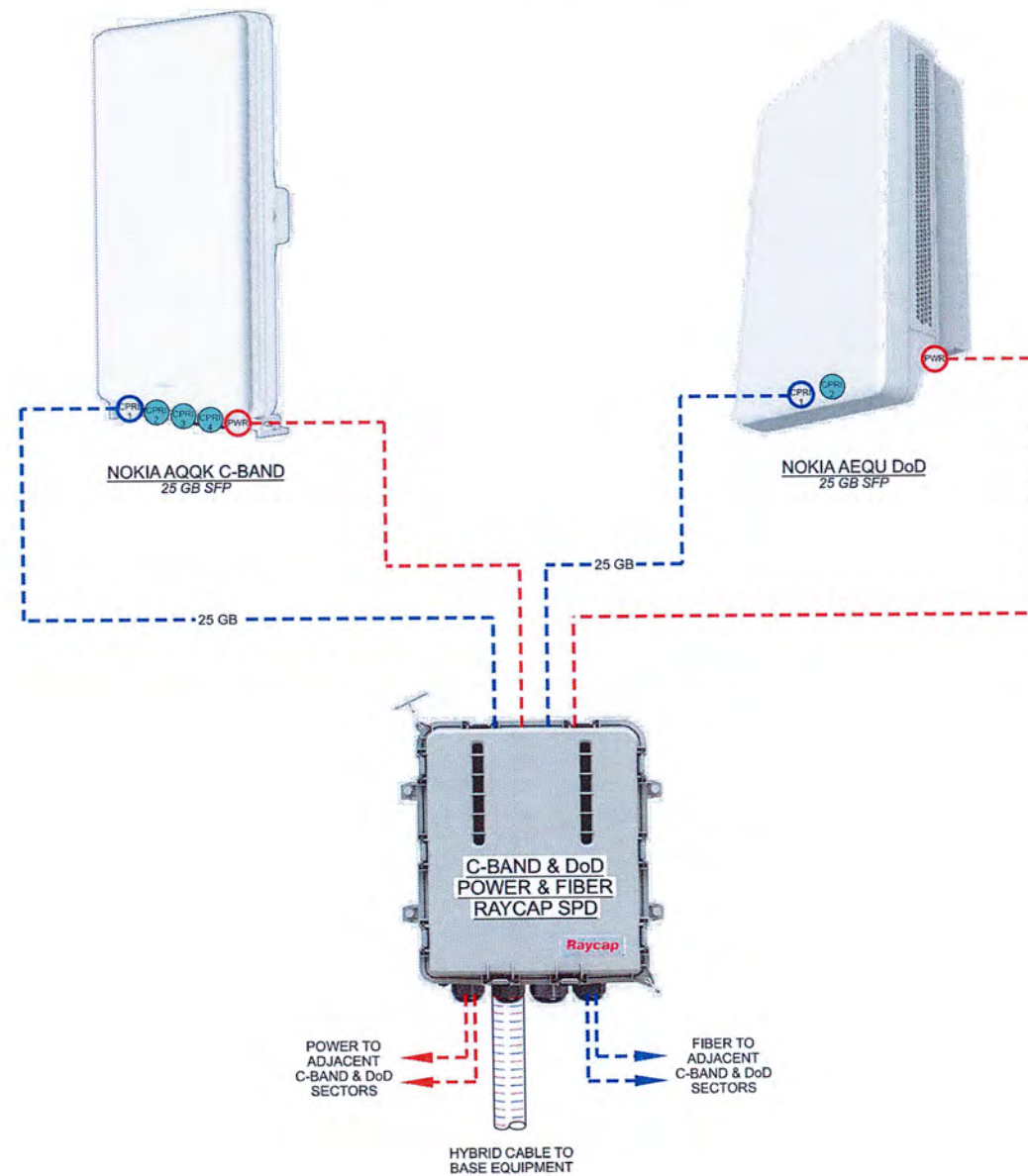
SHEET NUMBER:	REVISION:
C-10	3
TEP#: 25217.743352	



NOTES:

1. UNUSED PORTS TO BE CAPPED. CAPS INCLUDED WITH EQUIPMENT PURCHASE. CONTRACTOR TO SUPPLY IF NECESSARY.
2. SEE TOWER ELEVATION FOR SPECIFIC JUMPER LENGTHS AND SIZES.
3. ALL JUMPERS BETWEEN RRH AND ANTENNA MUST BE THE SAME LENGTH (PER SECTOR).
4. EXCESS JUMPER AND RET CABLES TO BE SECURED WITH GROMMETS AND SNAP-INS. VELCRO MAY NOT BE USED.
5. CONTRACTOR TO USE STRANDED INSULATED GROUND LEAD #6. SPECIFIED BY MANUFACTURER.

**NSN// C-BAND & DoD WITH DEDICATED RAYCAP SPD
PER SECTOR CONFIGURATION**



CABLE LEGEND

	EUPEN HYBRID CABLE
	FIBER JUMPER
	POWER JUMPER
	WEATHERPROOF CAP

PLUMBING DIAGRAM: NOKIA C-BAND & DoD

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PLUMBING DIAGRAM

SCALE: N.T.S.

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

**568452
UKIAH CAP 2**

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



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500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:



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REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

PLUMBING DIAGRAM II

SHEET NUMBER:	REVISION:
C-11	3
	TEP#: 25217.743352

PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:



February 8, 2023

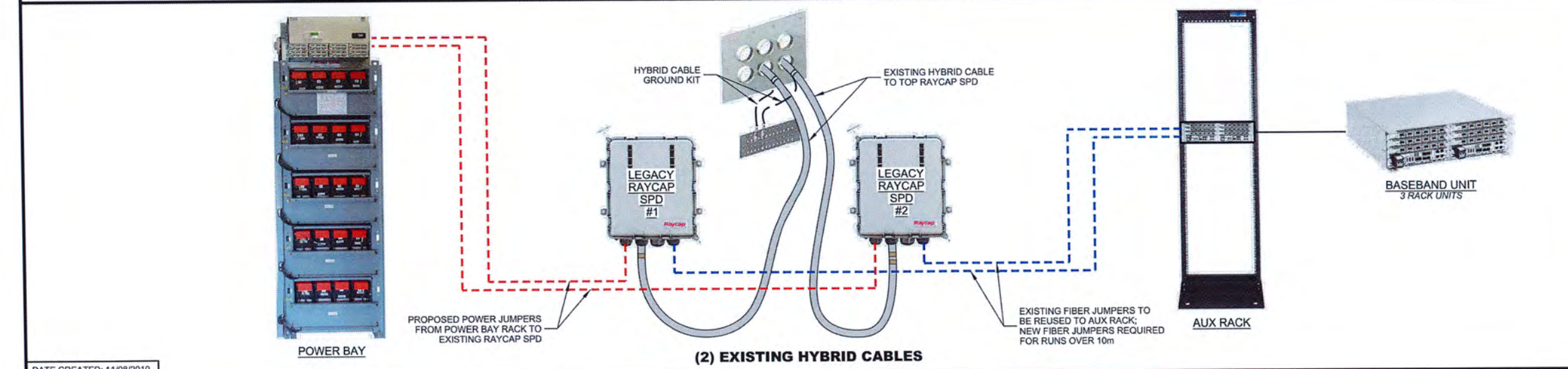
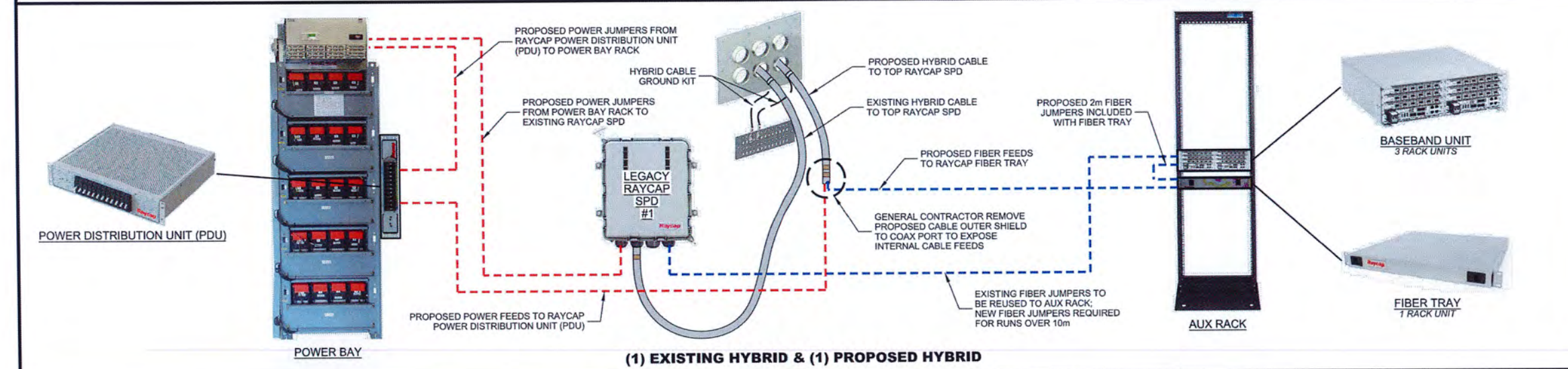
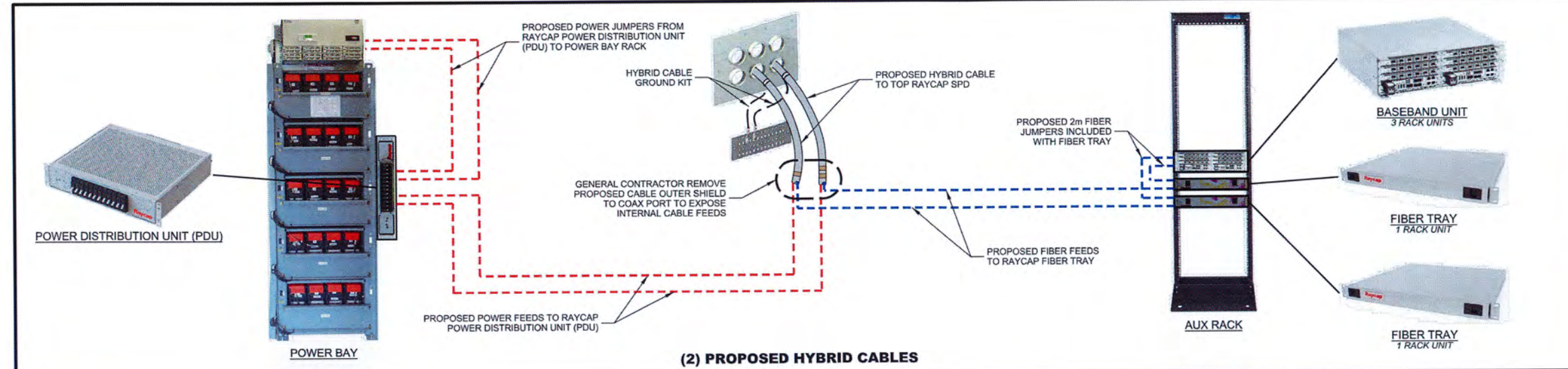
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2	01-31-23	PRELIMINARY
1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

SHELTER BLOCK
DIAGRAM

SHEET NUMBER:	REVISION:
C-12	3
TEP#: 25217.743352	



DATE CREATED: 11/08/2019

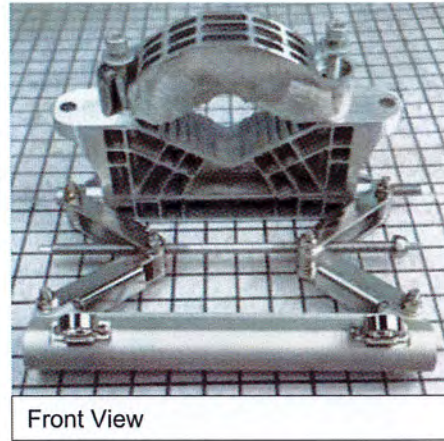
SHELTER BLOCK DIAGRAM

SCALE: N.T.S.

NOTE:

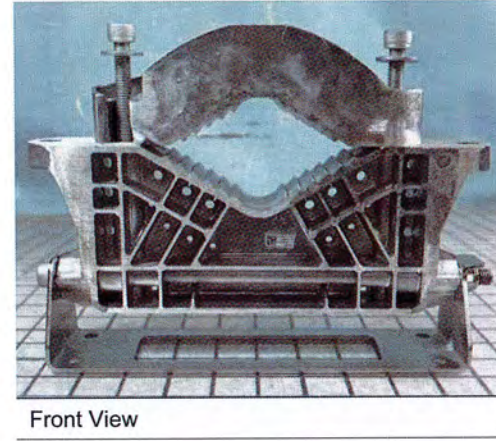
KIT INCLUDES:

- (8) M8-1.25x20mm HEX BOLTS
- (4) M10-1.50x150mm SOCKET HEAD SCREWS w/ATTACHED FLAT WASHERS
- (1) M10-1.50x300mm PARTIALLY THREADED SOCKET HEAD SCREW



Front View

UPPER MOUNTING BRACKET



Front View

LOWER MOUNTING BRACKET

NOTE:

GC TO ALIGN T/CBAND WITH T/LTE ANTENNAS AND B/DoD WITH B/LTE ANTENNAS TO MAXIMIZE THE DISTANCE BETWEEN CBAND AND DoD.

SXK 109 2065/1 MOUNTING KIT

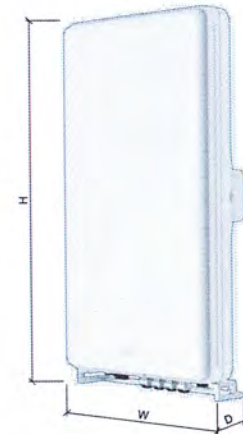
SCALE: N.T.S.

AIRSCALE MAA DIMENSIONS

MODEL	HEIGHT (H) x WIDTH (W) x DEPTH (D)
AQQK (1H2022) 64T64R	1001 x 448 x 113 mm

AIRSCALE MAA & MOUNTING KIT WEIGHT

MODEL	TYPE	WEIGHT
AQQK (1H2022) 64T64R	ANTENNA/RADIO	36 kg
AMPF	MOUNTING KIT	6.5 kg



NOKIA AQQK CBAND RRH W/ INTEGRATED ANTENNA

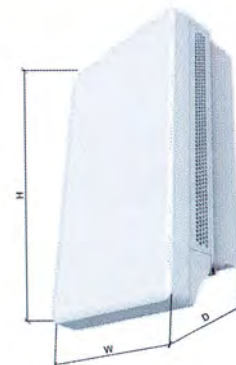
SCALE: N.T.S.

AIRSCALE MAA DIMENSIONS

MODEL	HEIGHT (H) x WIDTH (W) x DEPTH (D)
AEQU (1H2022) 64T64R	750 x 450 x 240 mm

AIRSCALE MAA & MOUNTING KIT WEIGHT

MODEL	TYPE	WEIGHT
AEQU (1H2022) 64T64R	ANTENNA/RADIO	45 kg
AMPF	MOUNTING KIT	6.5 kg



NOKIA AEQU DoD RRH W/ INTEGRATED ANTENNA

SCALE: N.T.S.

ANTENNA MOUNTING DETAILS

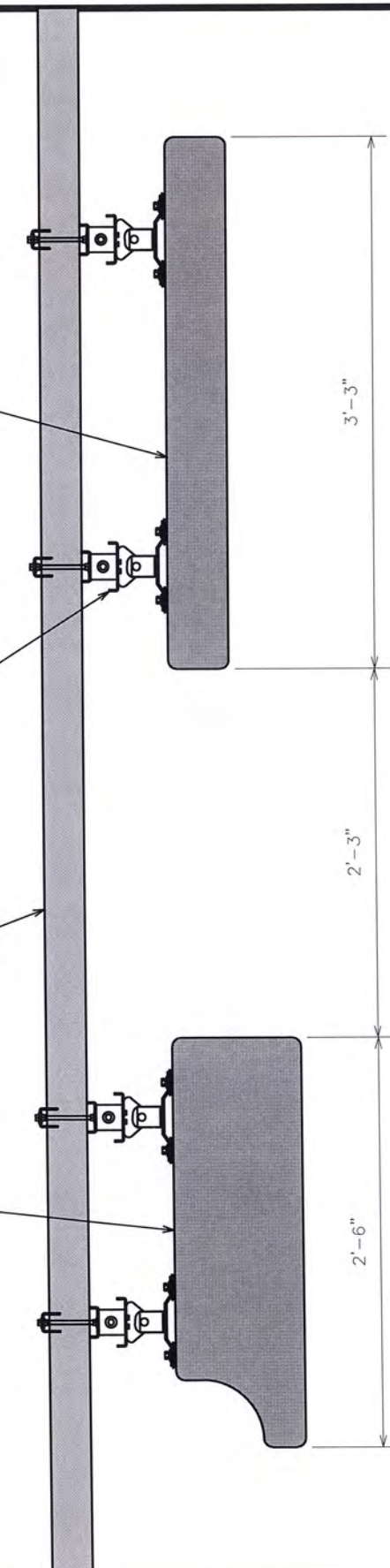
SCALE: N.T.S.

PROPOSED NOKIA AQQK RRH W/ INTEGRATED ANTENNA

MANUFACTURER SUPPLIED ANTENNA MOUNTING BRACKETS (NOKIA AMFP)

PROPOSED MOUNT PIPE

PROPOSED NOKIA AEQU RRH W/ INTEGRATED ANTENNA



PLANS PREPARED FOR:



8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:



February 8, 2023

3	02-08-23	CONSTRUCTION
2	01-31-23	PRELIMINARY
1	01-19-23	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:

C-BAND AND DOD
SPECIFICATIONS

SHEET NUMBER: REVISION:

C-13

3

TEP#: 25217.743352

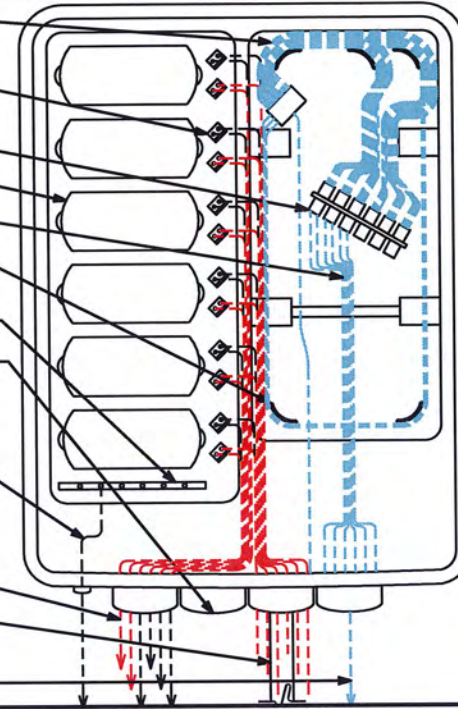
NOTE:

REFER TO USCC DOCUMENT "TOWER MOUNTED EQUIPMENT AND TOWER CABLE STANDARDS AT CELL SITES" FOR COMPLETE COLOR CODING STANDARDS.

CONNECTOR 13 13A: BLUE TX 13B: BLUE RX with TRACERS	CONNECTOR 14 14A: ORANGE TX 14B: ORANGE RX with TRACERS	CONNECTOR 15 15A: GREEN TX 15B: GREEN RX with TRACERS	CONNECTOR 16 16A: BROWN TX 16B: BROWN RX with TRACERS	CONNECTOR 17 17A: SLATE TX 17B: SLATE RX with TRACERS	CONNECTOR 18 18A: WHITE TX 18B: WHITE RX with TRACERS
CONNECTOR 7 7A: RED TX 7B: RED RX	CONNECTOR 8 8A: BLACK TX 8B: BLACK RX	CONNECTOR 9 9A: YELLOW TX 9B: YELLOW RX	CONNECTOR 10 10A: VIOLET TX 10B: VIOLET RX	CONNECTOR 11 11A: ROSE TX 11B: ROSE RX	CONNECTOR 12 12A: AQUA TX 12B: AQUA RX
CONNECTOR 1 1A: BLUE TX 1B: BLUE RX	CONNECTOR 2 2A: ORANGE TX 2B: ORANGE RX	CONNECTOR 3 3A: GREEN TX 3B: GREEN RX	CONNECTOR 4 4A: BROWN TX 4B: BROWN RX	CONNECTOR 5 5A: SLATE TX 5B: SLATE RX	CONNECTOR 6 6A: WHITE TX 6B: WHITE RX



- PROPOSED (24) FIBER CABLES
- PROPOSED (12) TERMINAL BLOCK 6-20 AWG
- PROPOSED (18) FIBER COUPLERS ON FIBER LANDING
- PROPOSED (6) STRIKESORB MODULE
- PROPOSED (6) FIBER CABLES
- PROPOSED (5) BEND PROTECTORS
- PROPOSED GROUND STRIP FOR SHIELD AND DRAIN WIRES
- PROPOSED EMPTY PORT
- PROPOSED #6 INSULATED GROUND LEAD WITH 2 LUG MECHANICAL CONNECTION BETWEEN PROPOSED RAYCAP AND EXISTING RF GROUND BAR
- PROPOSED POWER JUMPER CABLES TO RRHS
- PROPOSED 1/2" HYBRID CABLE
- PROPOSED FIBER OPTIC JUMPER CABLE TO RRHS



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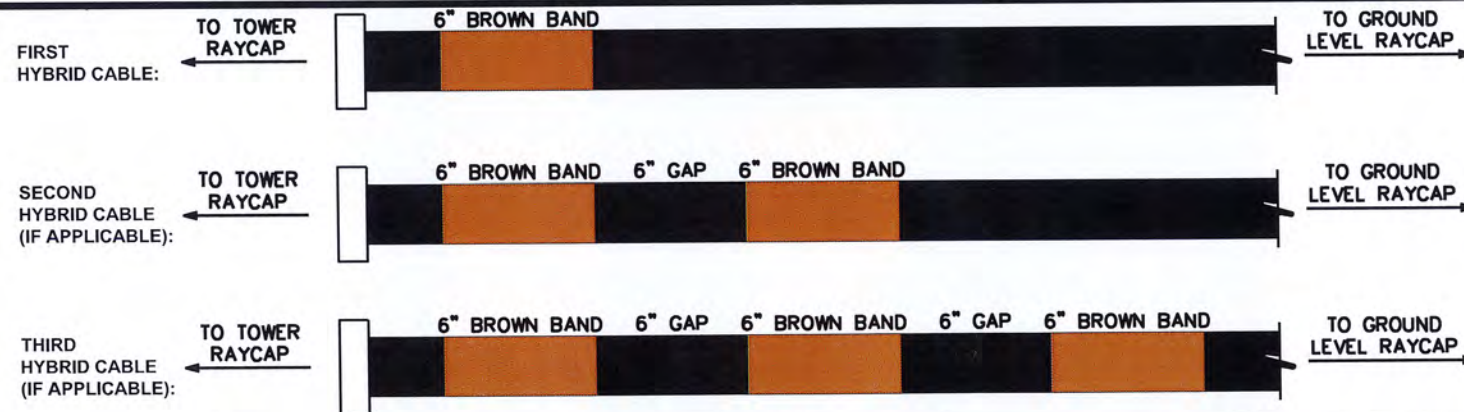
DRAWN BY: RSR CHECKED BY: GSK

SHEET TITLE:
FIBER AND COAX LABELLING STANDARDS I

SHEET NUMBER: **C-14** REVISION: **3**
TEP#: 25217.743352

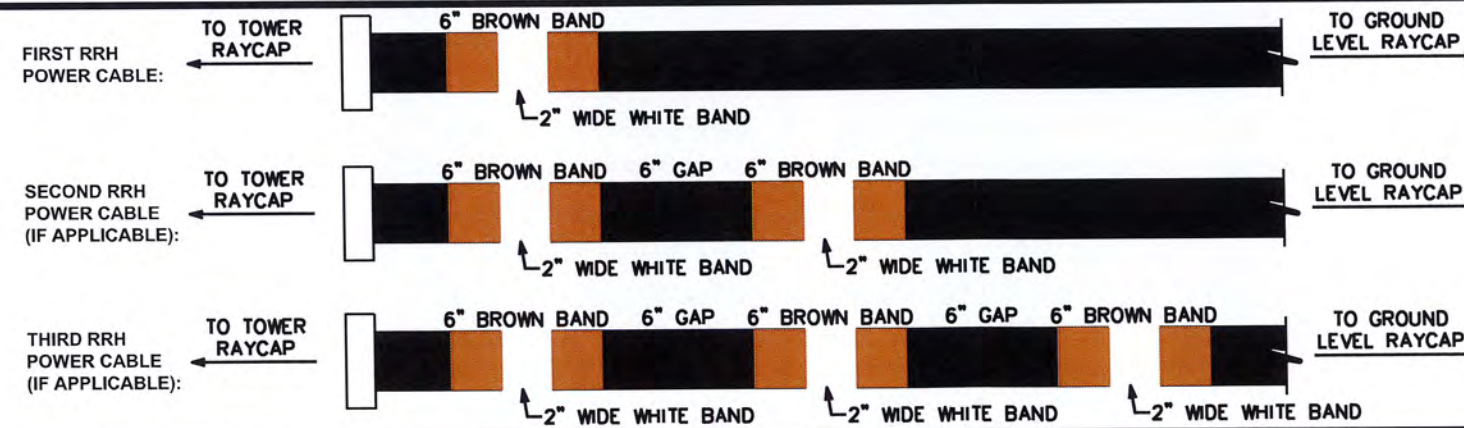
FIBER CABLE LABELING

SCALE: N.T.S.



HYBRID CABLE BANDING

SCALE: N.T.S.



POWER CABLE BANDING

SCALE: N.T.S.

RAYCAP CABLING

SCALE: N.T.S.

Sector Band Assignments (Most Common Case: Single Technology within the Sector)					
Sector Band	Assigned Color	Line 1	Line 2	Line 3	Line 4
Alpha (Sector 1)	red	1 red band	2 red bands	3 red bands	4 red bands
Beta (Sector 2)	white	1 white band	2 white bands	3 white bands	4 white bands
Gamma (Sector 3)	blue	1 blue band	2 blue bands	3 blue bands	4 blue bands
Delta (Sector 4, if applicable)	green	1 green band	2 green bands	3 green bands	4 green bands
Epsilon (Sector 5, if applicable)	violet	1 violet band	2 violet bands	3 violet bands	4 violet bands
Zeta (Sector 6, if applicable)	brown	1 brown band	2 brown bands	3 brown bands	4 brown bands

FREQUENCY BAND	
FREQUENCY	FREQUENCY BAND
700 (B12)	GREEN
800 (B5)	BROWN
1900 (B2)	BLUE
2100 (B4 & B66)	WHITE
5100 (B66)-LAA	GREY
600 (B71)	VIOLET
3500 (B48)-CBRS	RED

PLANS PREPARED FOR:



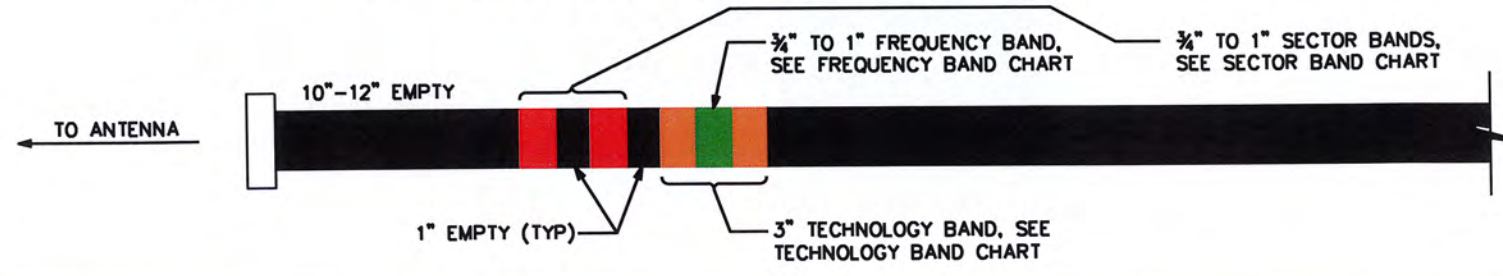
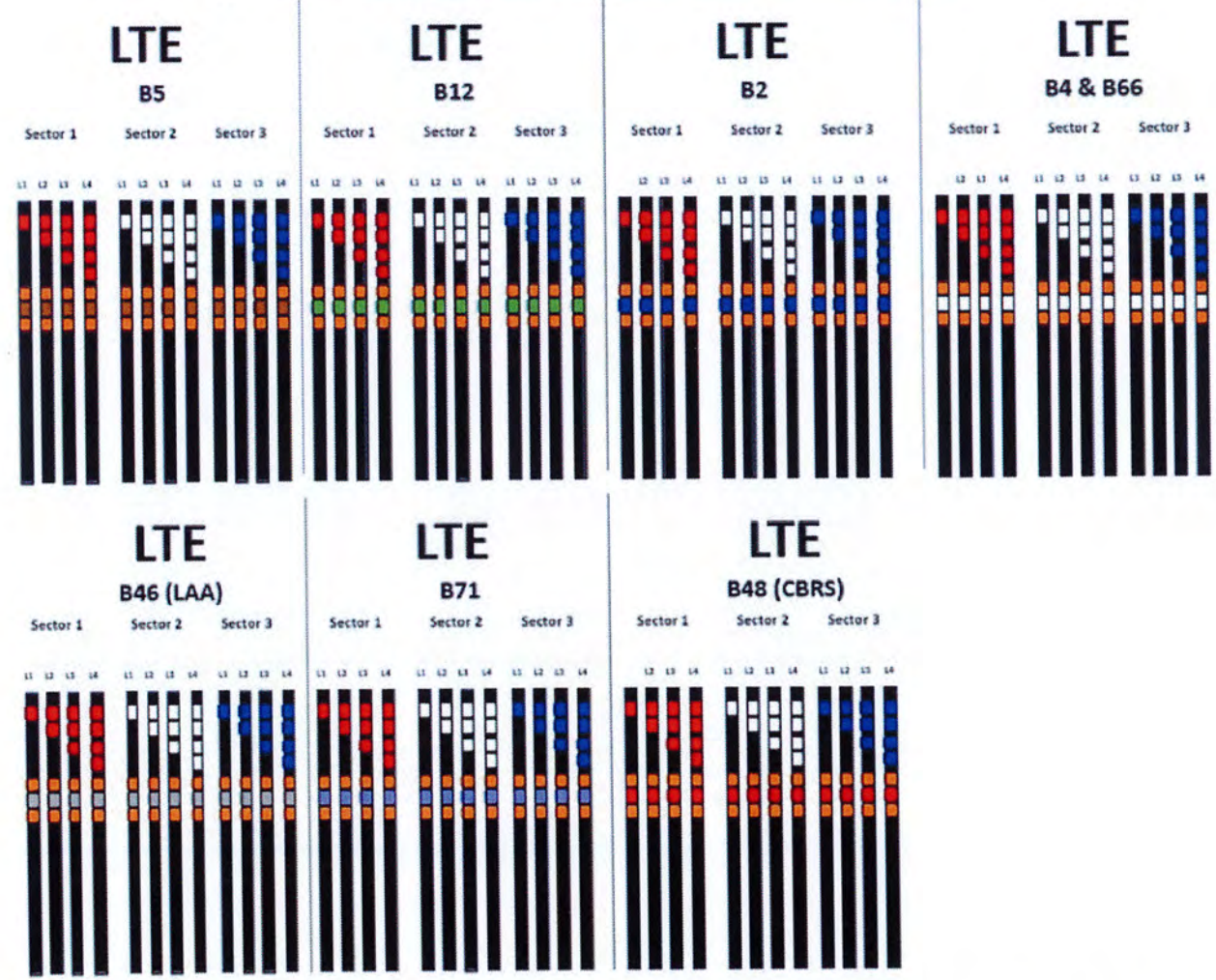
8410 W BRYN MAWR SUITE 700
CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

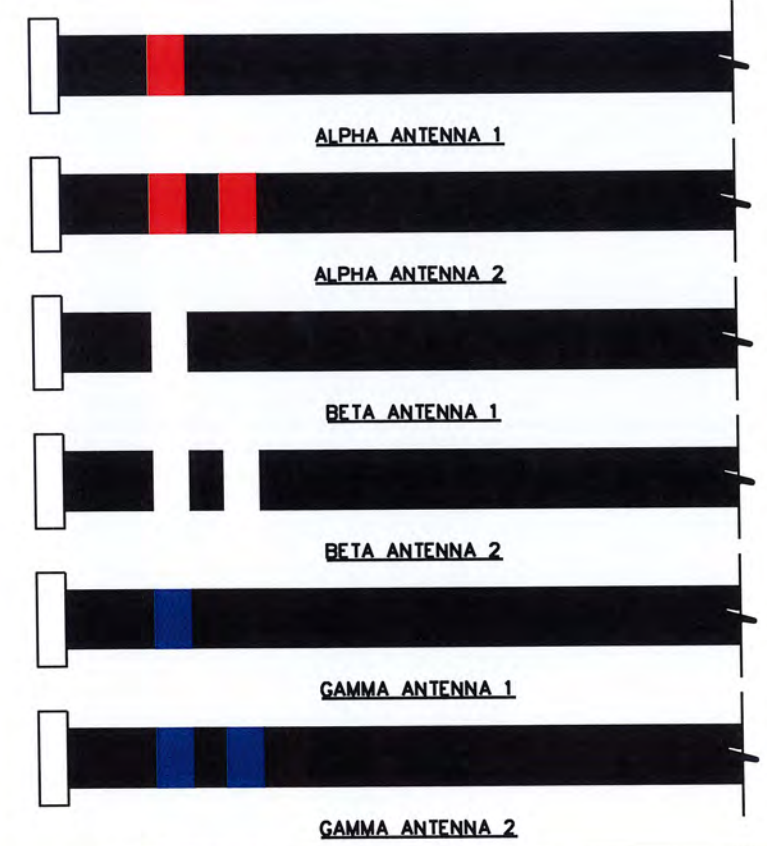
1500 LAKE MENDOCINO DRIVE
UKIAH, CA 95482
(MENDOCINO COUNTY)

USC COAX Color Code Standard



COAX CABLE BANDING
SCALE: N.T.S.

RET SECTOR BAND		
SECTOR	LINE 1 - FIRST TECHNOLOGY	LINE 2 - FIRST TECHNOLOGY
ALPHA	(1) RED BAND	(2) RED BAND
BETA	(1) WHITE BAND	(2) WHITE BAND
GAMMA	(1) BLUE BAND	(2) BLUE BAND



RET CABLE BANDING
SCALE: N.T.S.

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DRAWN BY: RSR		CHECKED BY: GSK

SHEET TITLE:
FIBER AND COAX LABELLING STANDARDS II

SHEET NUMBER: **C-15** REVISION: **3**
TEP#: 25217.743352

GENERAL NOTES:

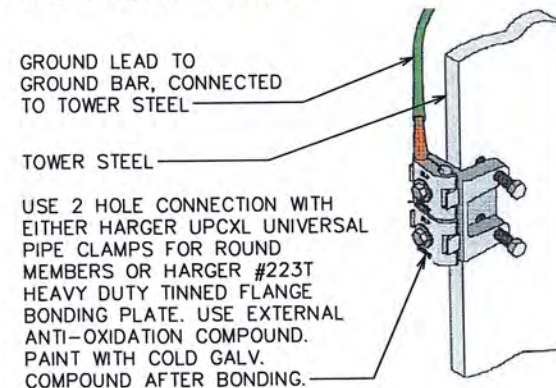
- ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED U.S. CELLULAR OR IT'S DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF CALIFORNIA.
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H, AND THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, 2022 EDITION.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, 2022 EDITION.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN IT PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.

STRUCTURAL STEEL NOTES:

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - STRUCTURAL STEEL, ASTM DESIGNATION A36 OR GR50.
 - ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
 - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.
- HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
- HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AN/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", DATED JUNE 30, 2004.
- FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
- DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS ;MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
- PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1:2020, STRUCTURAL WELDING CODE-REINFORCING STEEL. ALL WELDERS SHALL DISPLAY PROPER CERTIFICATION OF QUALIFICATION.

GROUNDING NOTES:

- ALL CADWELD CONNECTIONS TO GALVANIZED MATERIAL SHALL BE PROPERLY PREPARED TO ASSURE A SATISFACTORY CADWELD.
- CADWELD CONNECTION SHALL BE COATED WITH COLD GALVANIZING SPRAY.
- ALL VERTICAL JUMPERS SHALL NOT BE WELDED WITHIN TWO FT OF THE GROUND ROD.
- SECTOR GROUNDING DIAGRAM:



PLANS PREPARED FOR:

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CHICAGO, IL 60631
(773) 399-8900

PROJECT INFORMATION:

568452
UKIAH CAP 2

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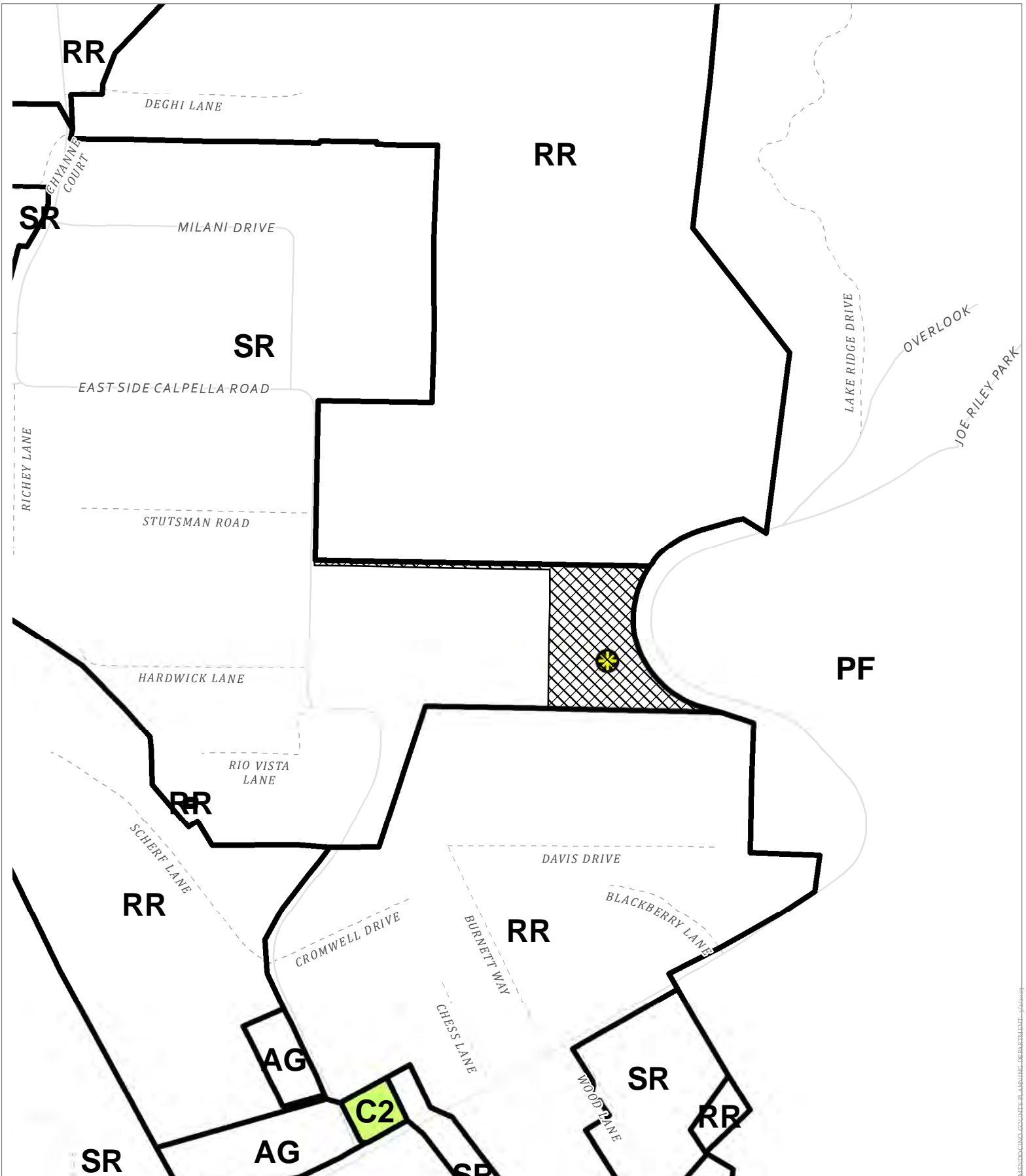
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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: **N-1** REVISION: **3**

TEP#: 25217.743352



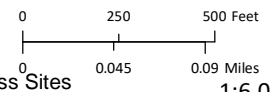
CASE: AP 2023-0005
OWNER: Mendocino Lake Clubhouse Inc.
APN: 168-210-08
APLCT: California Rural Service Area #1
AGENT: Faulk & Foster/Tracey Malone
ADDRESS: 1500 Lake Mendocino Dr., Ukiah

Zoning Districts

Community Character (CC) Districts

Public Roads

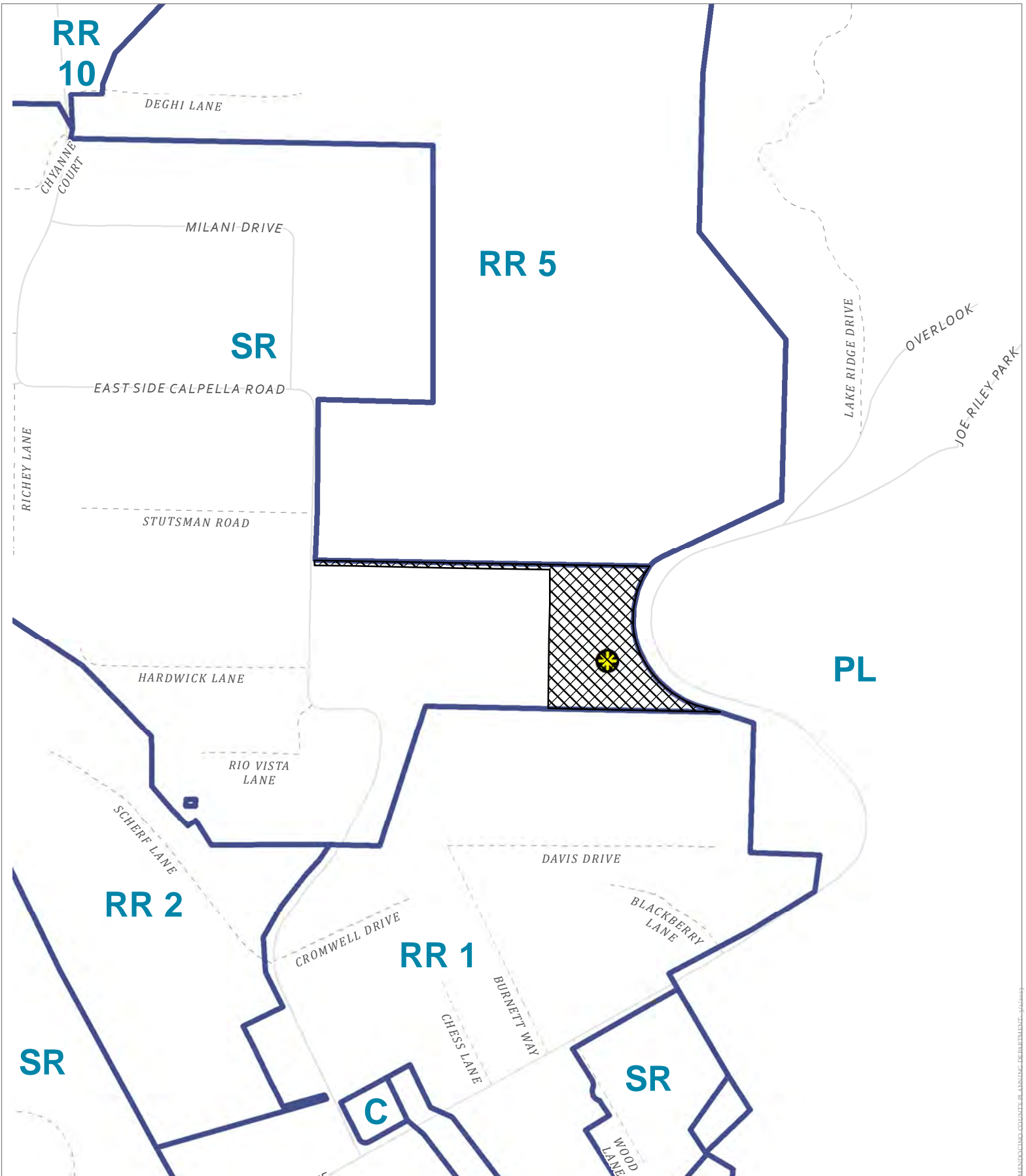
Approved Wireless Sites



1:6,000
ZONING

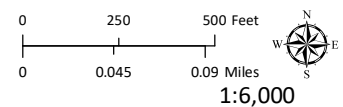
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MENDOCINO COUNTY PLANNING DEPARTMENT - 3/24/2023



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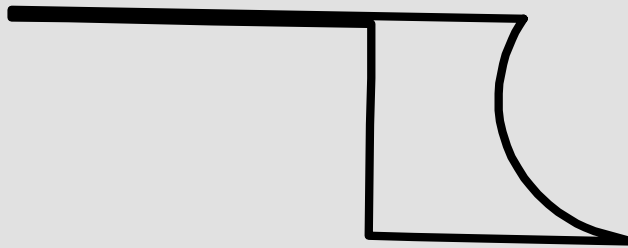
- General Plan Classes
- Public Roads
- ✱ Approved Wireless Sites



GENERAL PLAN

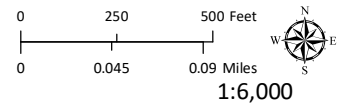
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MENDOCINO COUNTY PLANNING DEPARTMENT - 3/24/2023



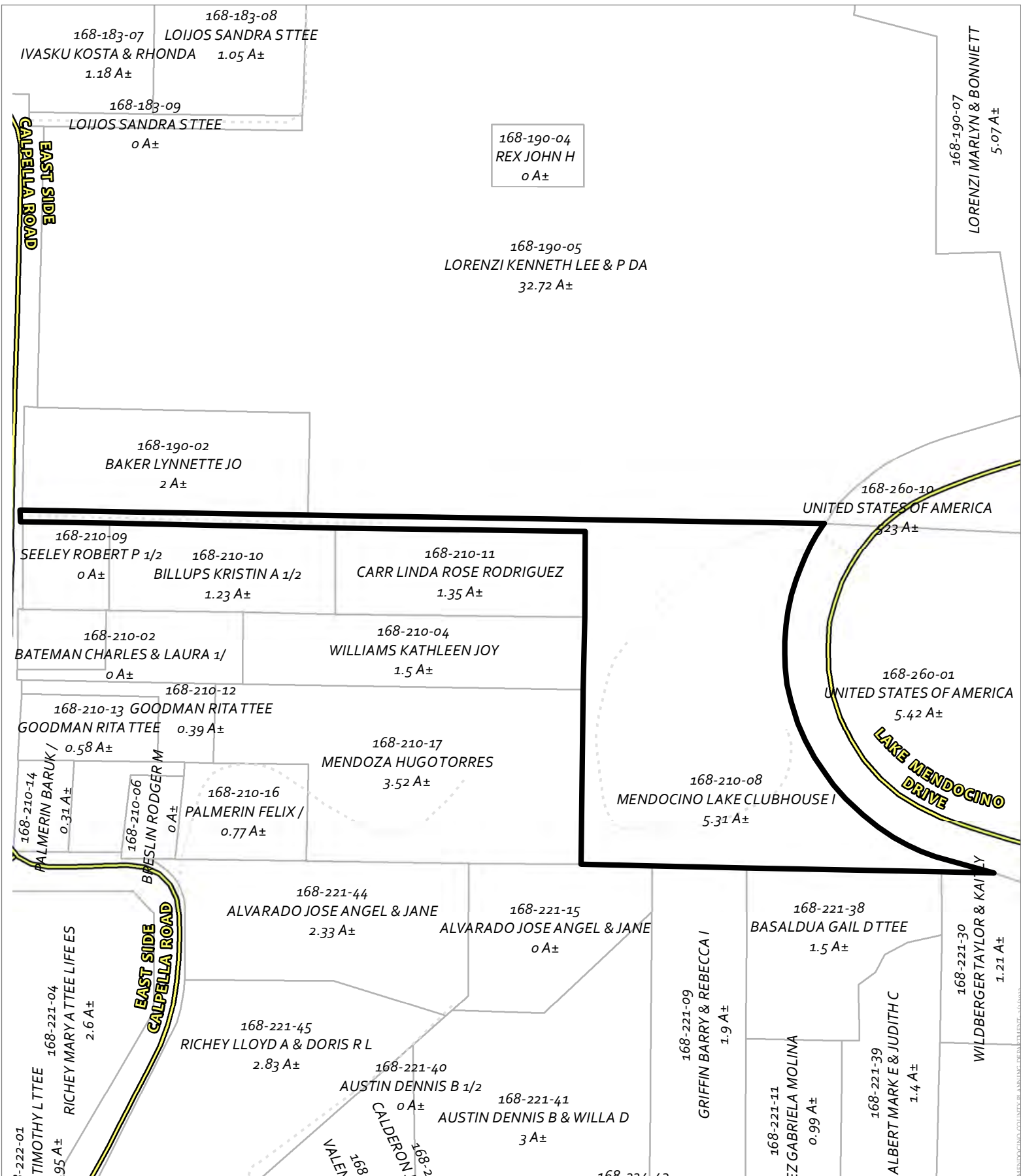
MENDOCINO COUNTY PLANNING DEPARTMENT 3/24/2023

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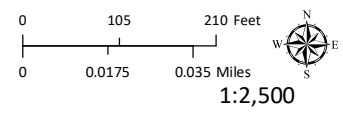
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UKIAH VALLEY AREA PLAN

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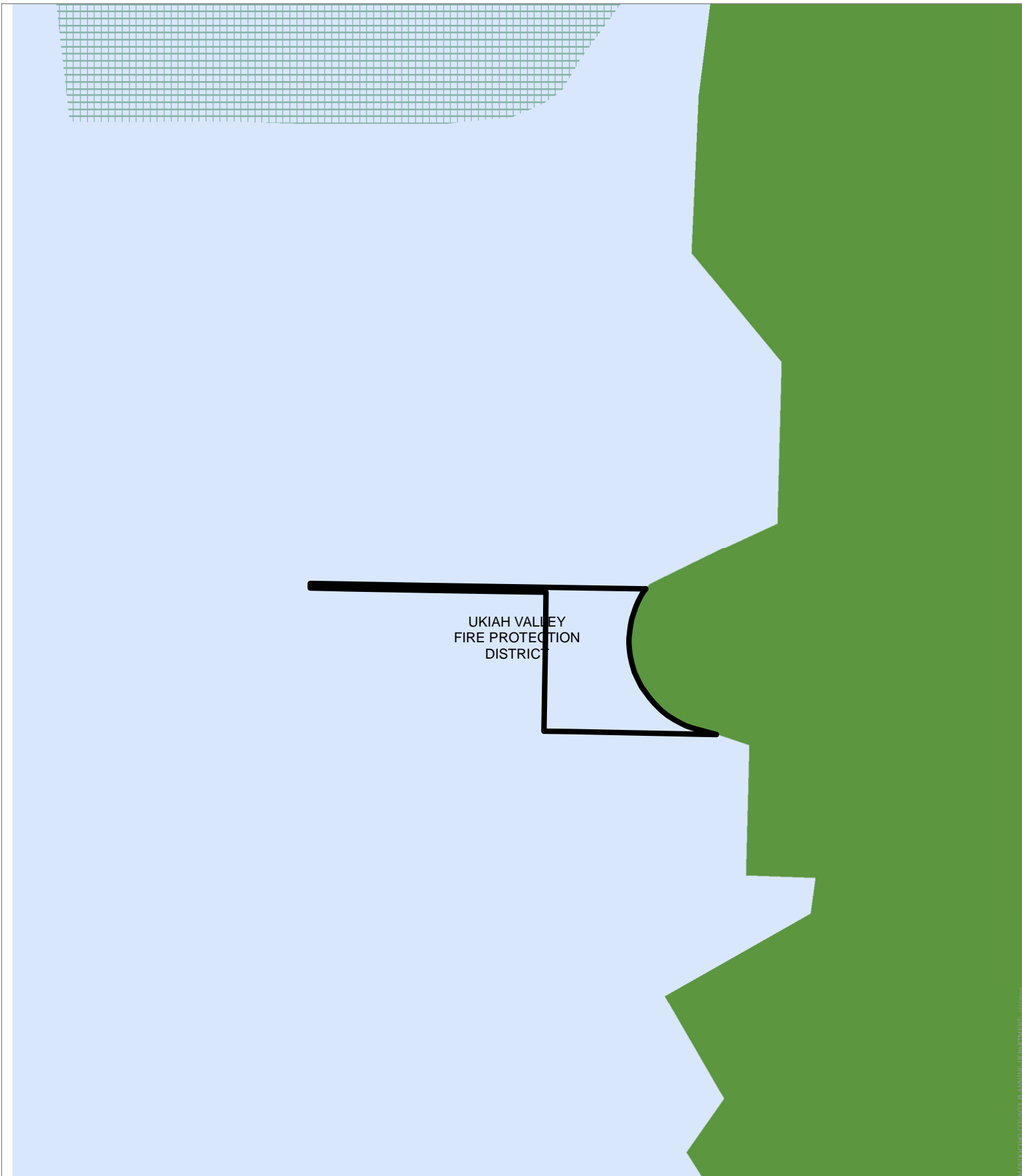
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Public Roads
Private Roads





1:2,500
ADJACENT IMAGERY


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UKIAH VALLEY
FIRE PROTECTION
DISTRICT

CASE: AP 2023-0005
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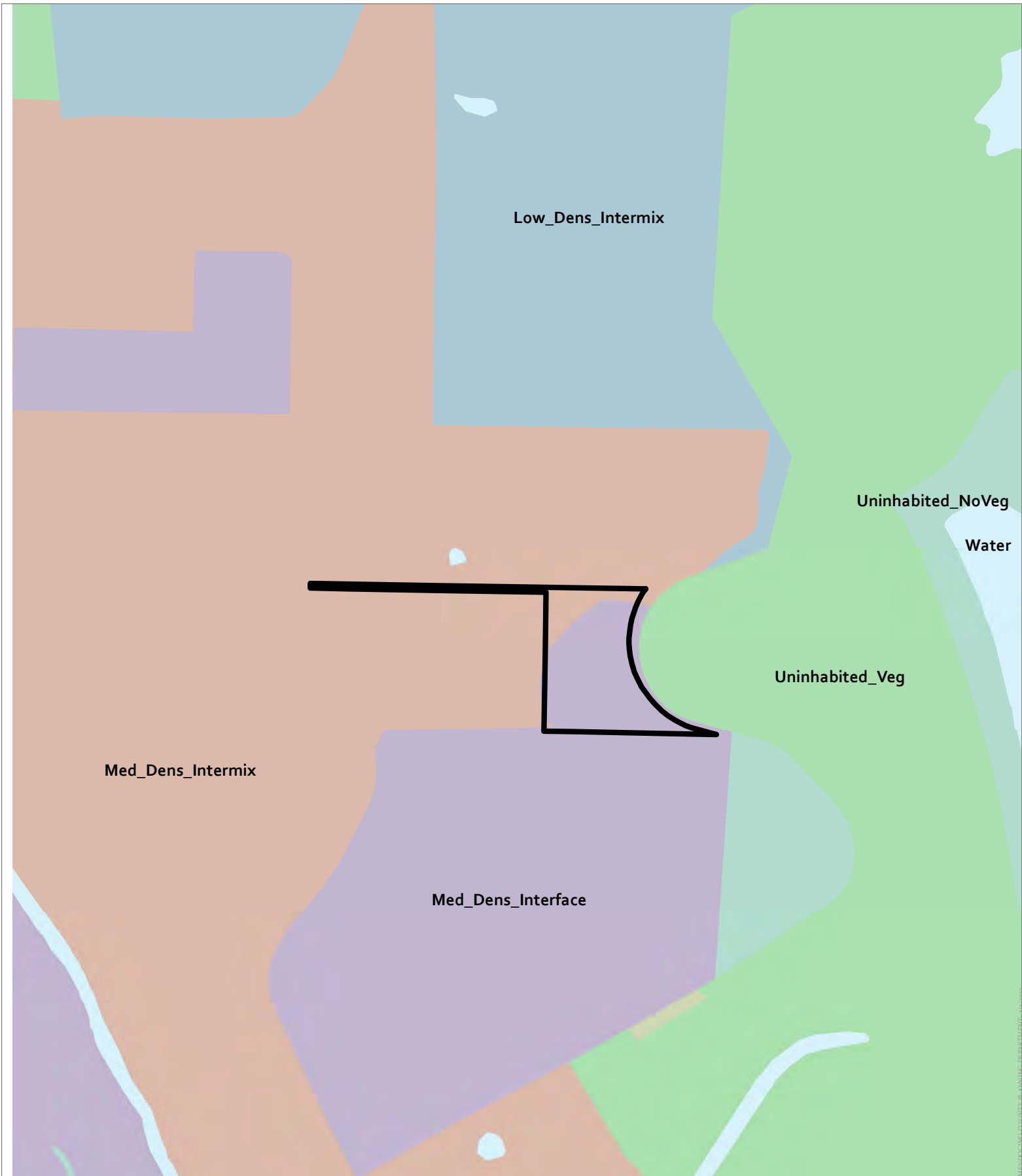
 FRA
 Moderate Fire Hazard

 County Fire Districts

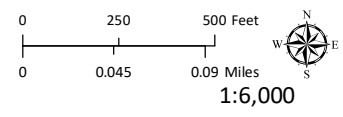
0 250 500 Feet
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FIRE HAZARD ZONES & RESPONSIBILITY AREAS
 STATE RESPONSIBILITY AREA

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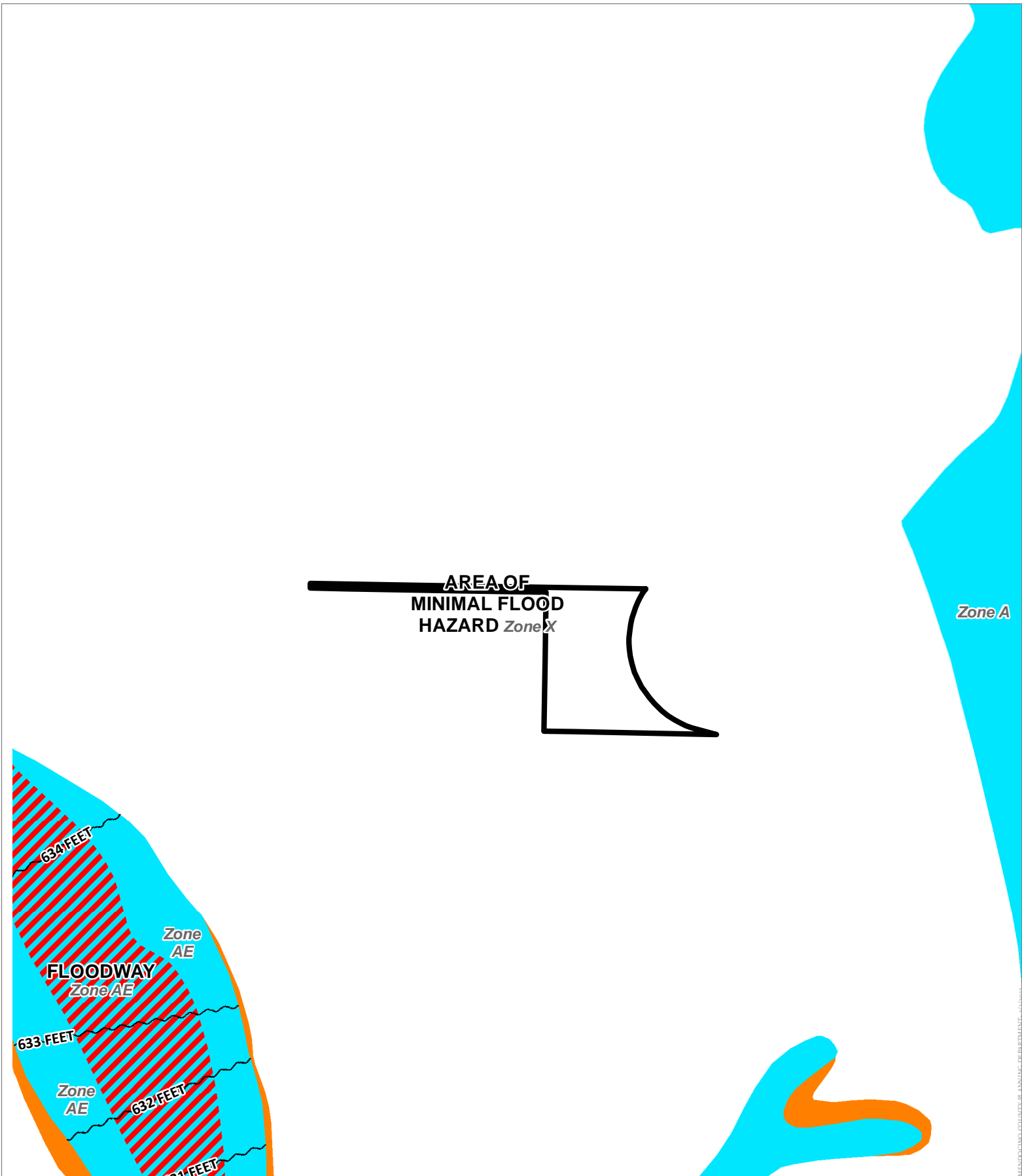


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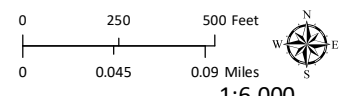
WILDLAND-URBAN INTERFACE

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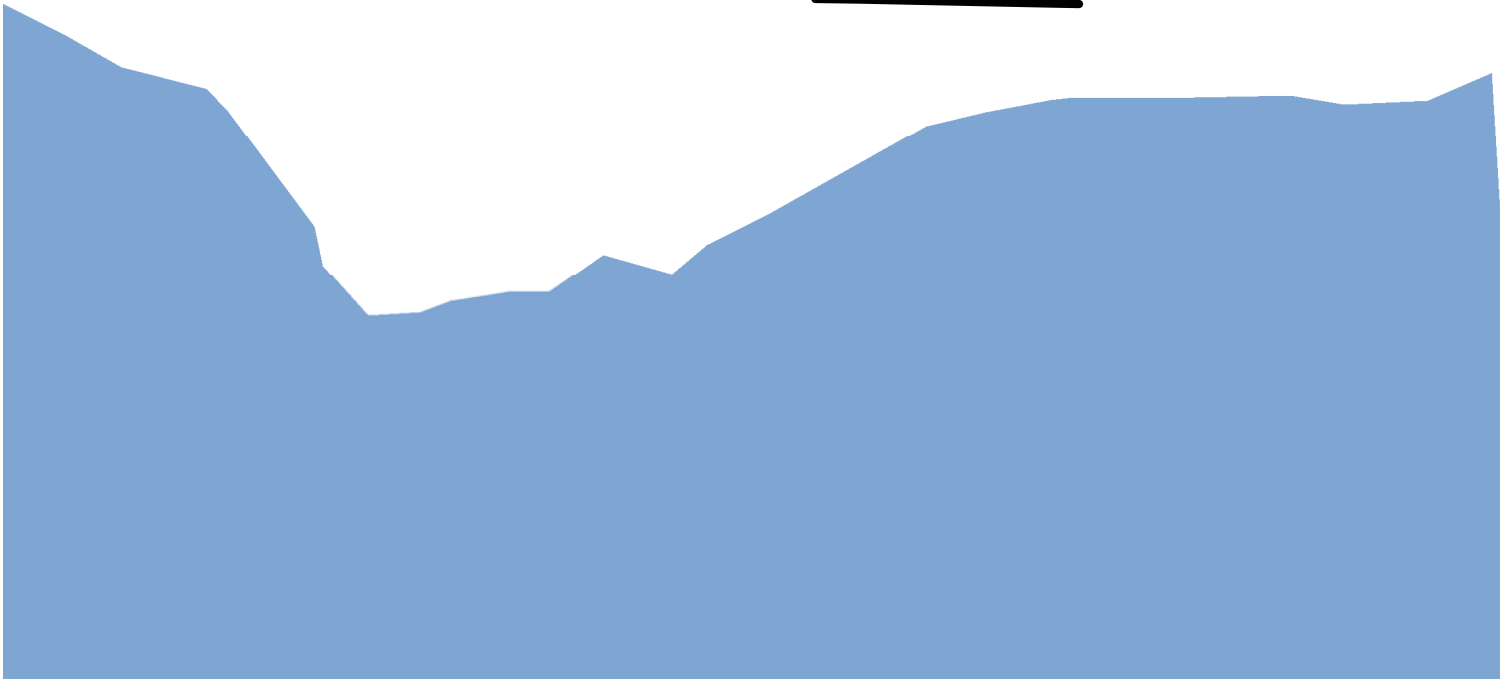
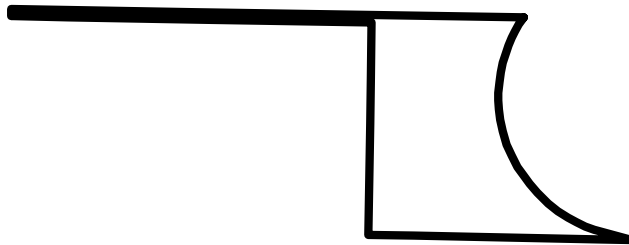
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FLOOD ZONES

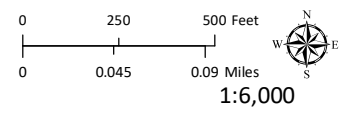
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MENDOCINO COUNTY HEALTH AND SAFETY DEPARTMENT - 3/24/2023



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APN: 168-210-08
APLCT: California Rural Service Area #1
AGENT: Faulk & Foster/Tracey Malone
ADDRESS: 1500 Lake Mendocino Dr., Ukiah

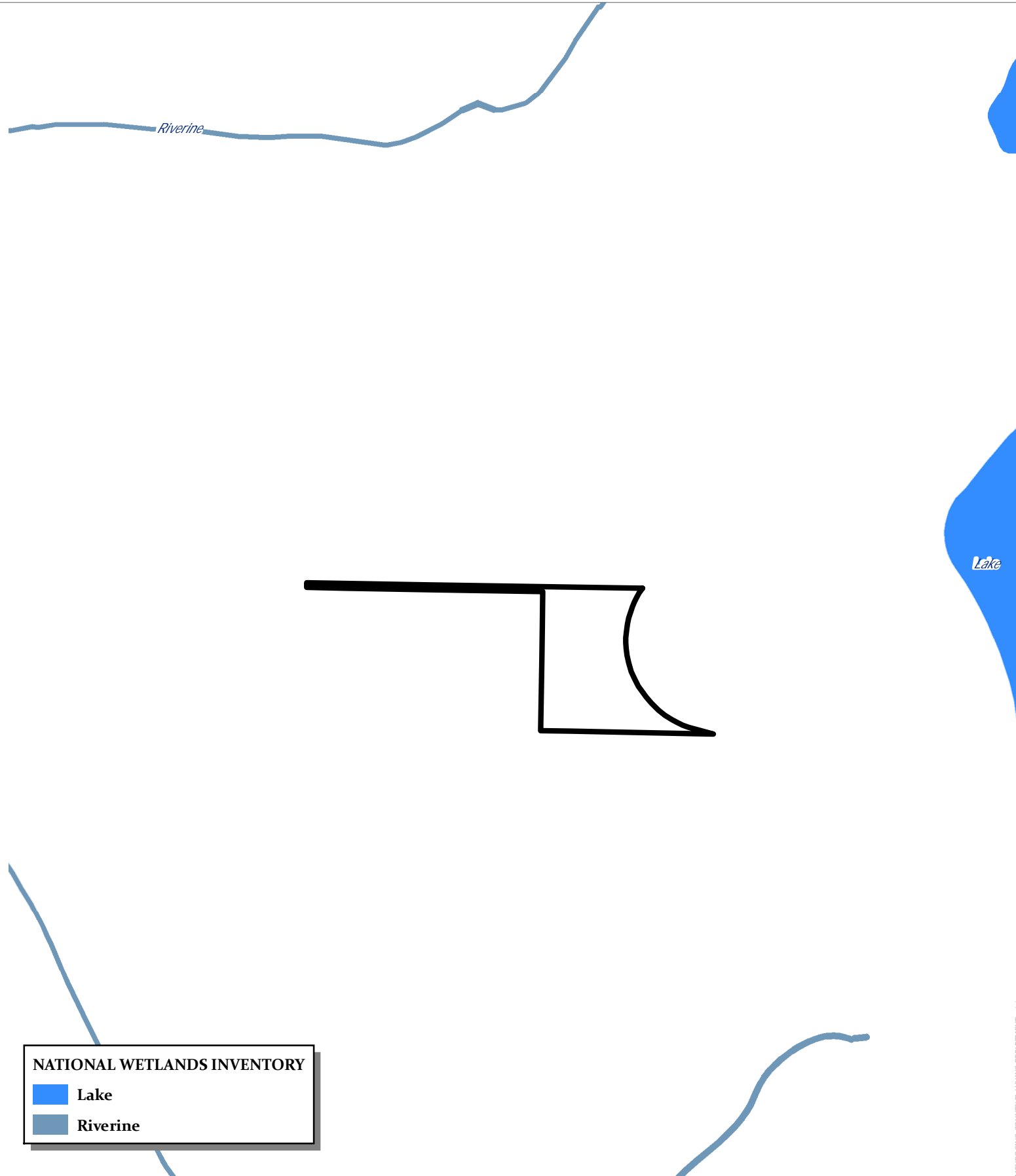
 Estimated Inundation Zones



DAM INUNDATION ZONE

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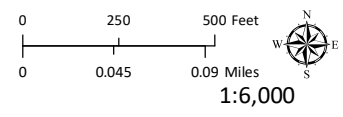
MENDOCINO COUNTY HEALTH AND SAFETY DEPARTMENT 3/24/2023



NATIONAL WETLANDS INVENTORY

-  Lake
-  Riverine

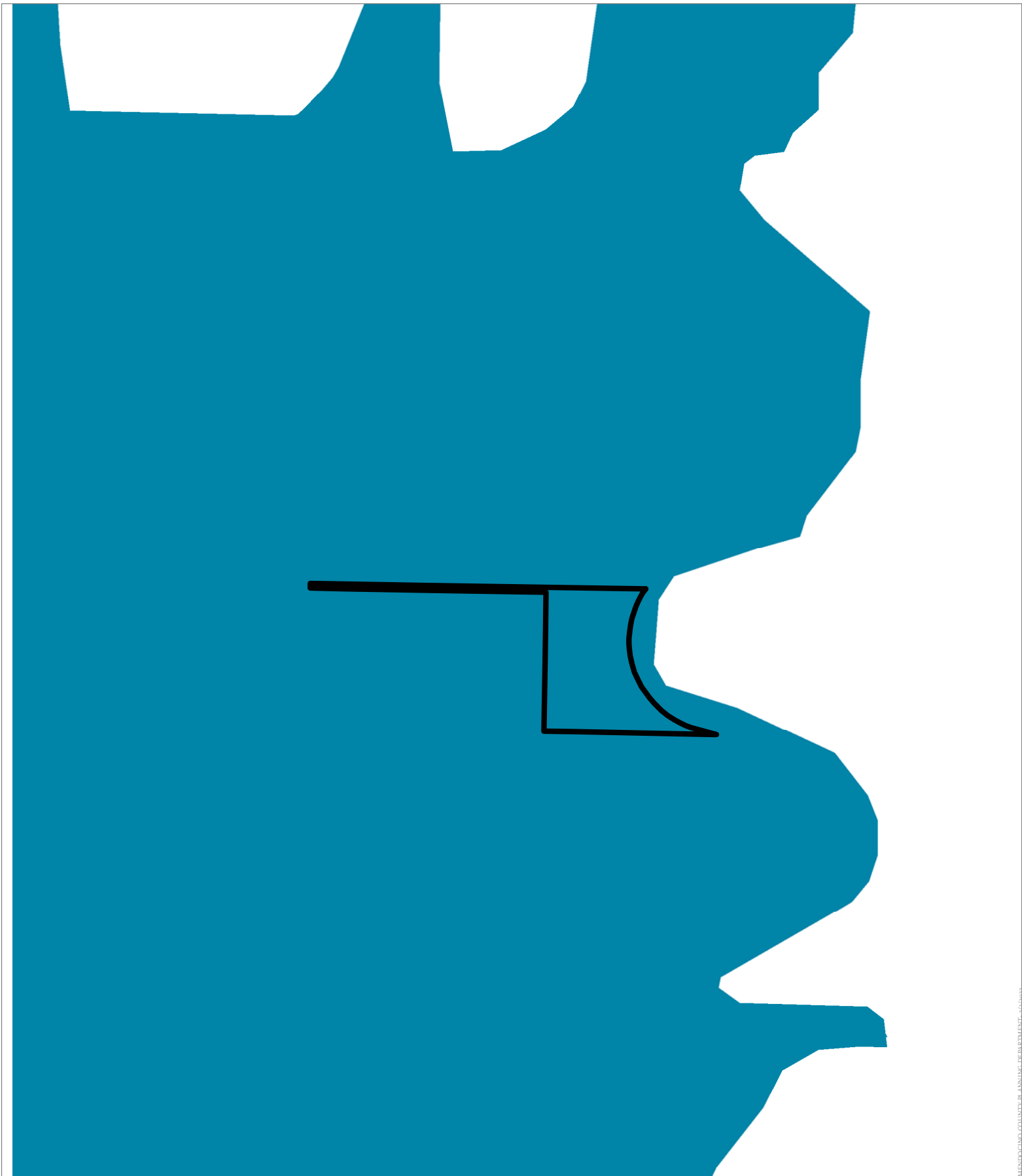
CASE: AP 2023-0005
OWNER: Mendocino Lake Clubhouse Inc.
APN: 168-210-08
APLCT: California Rural Service Area #1
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WETLANDS

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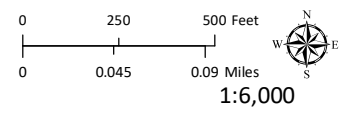
MENDOCINO COUNTY HEALTH AND SAFETY DEPARTMENT - 3/24/2023



MENDOCINO COUNTY HEALTH AND SAFETY DEPARTMENT 3/24/2023

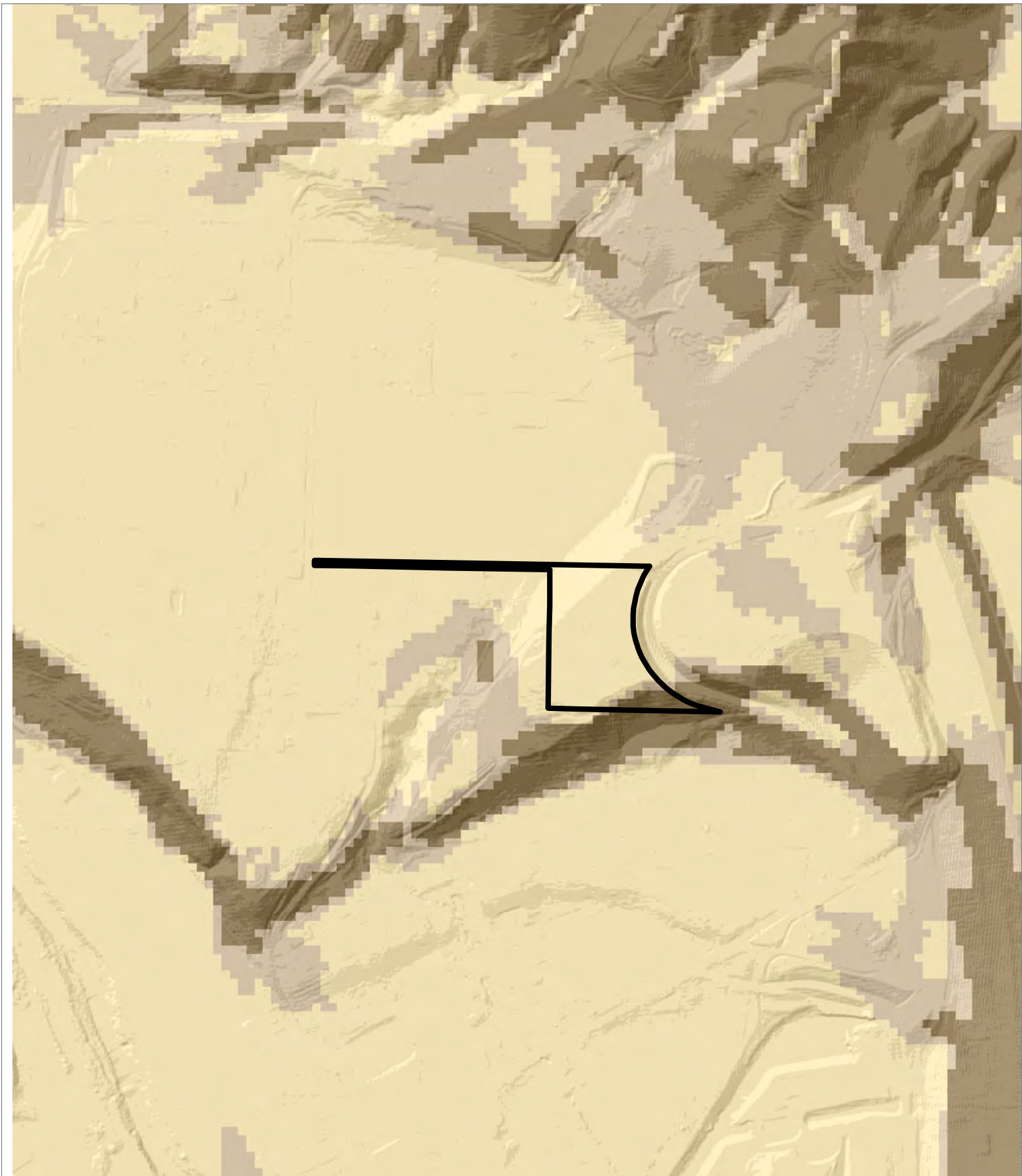
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 Ukiah Stormwater Areas

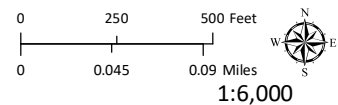
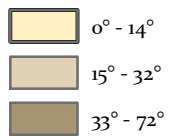


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MS4 STORMWATER AREA

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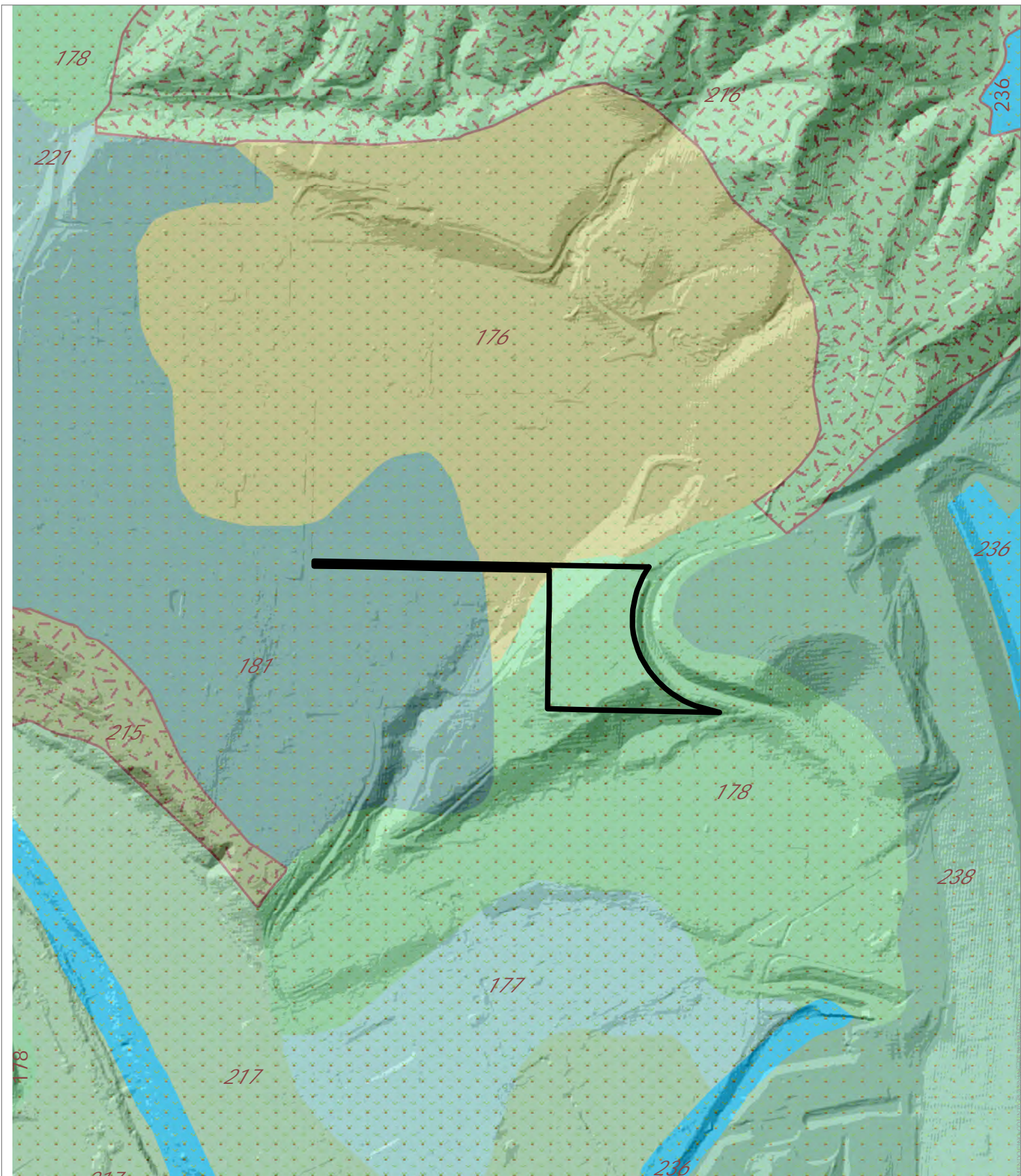


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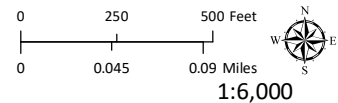
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ESTIMATED SLOPE

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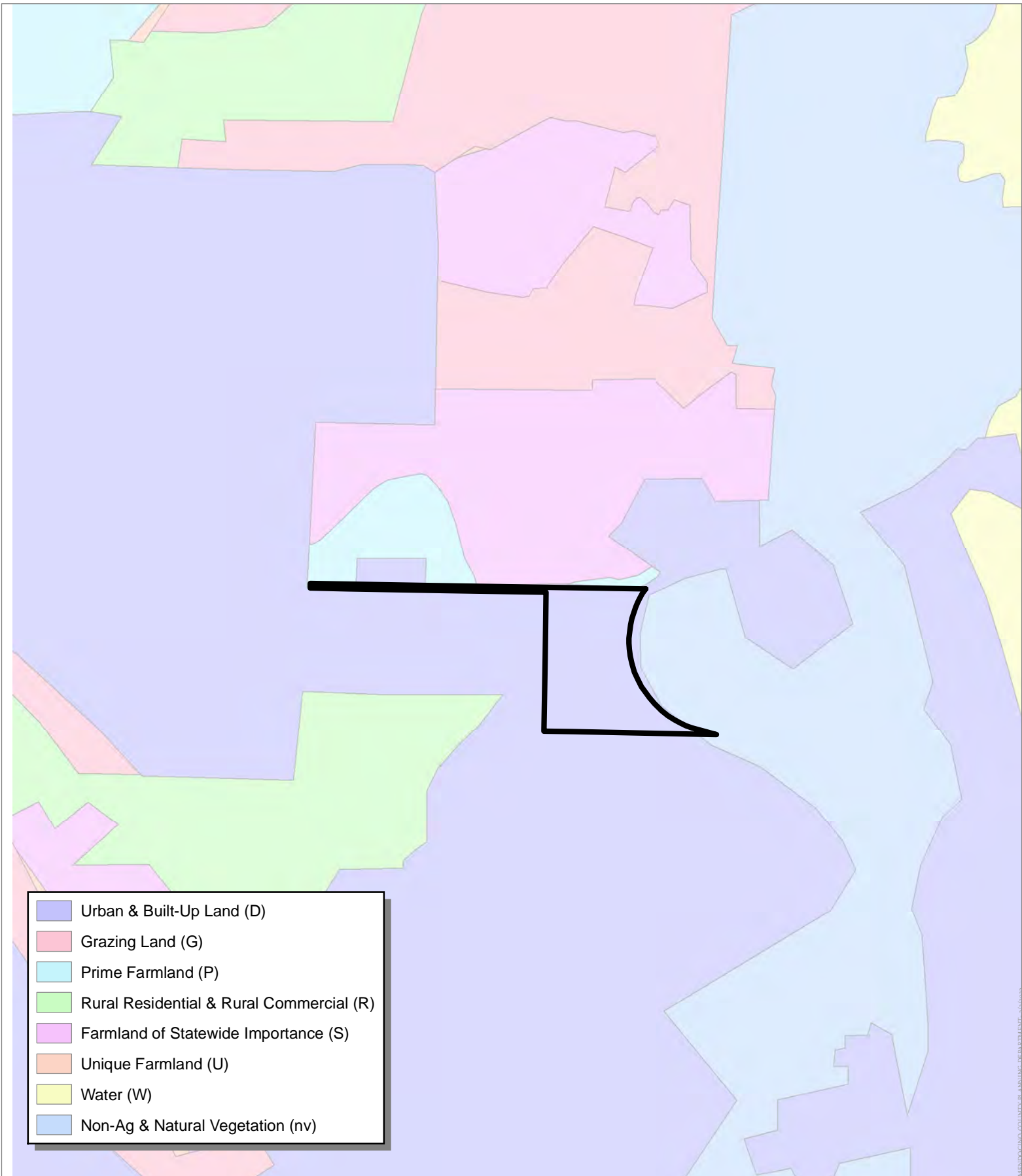
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 Eastern Serpentine Inclusions
 Naturally Occurring Asbestos



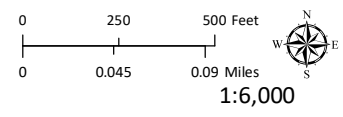
EASTERN SOIL CLASSIFICATION

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- Urban & Built-Up Land (D)
- Grazing Land (G)
- Prime Farmland (P)
- Rural Residential & Rural Commercial (R)
- Farmland of Statewide Importance (S)
- Unique Farmland (U)
- Water (W)
- Non-Ag & Natural Vegetation (nv)

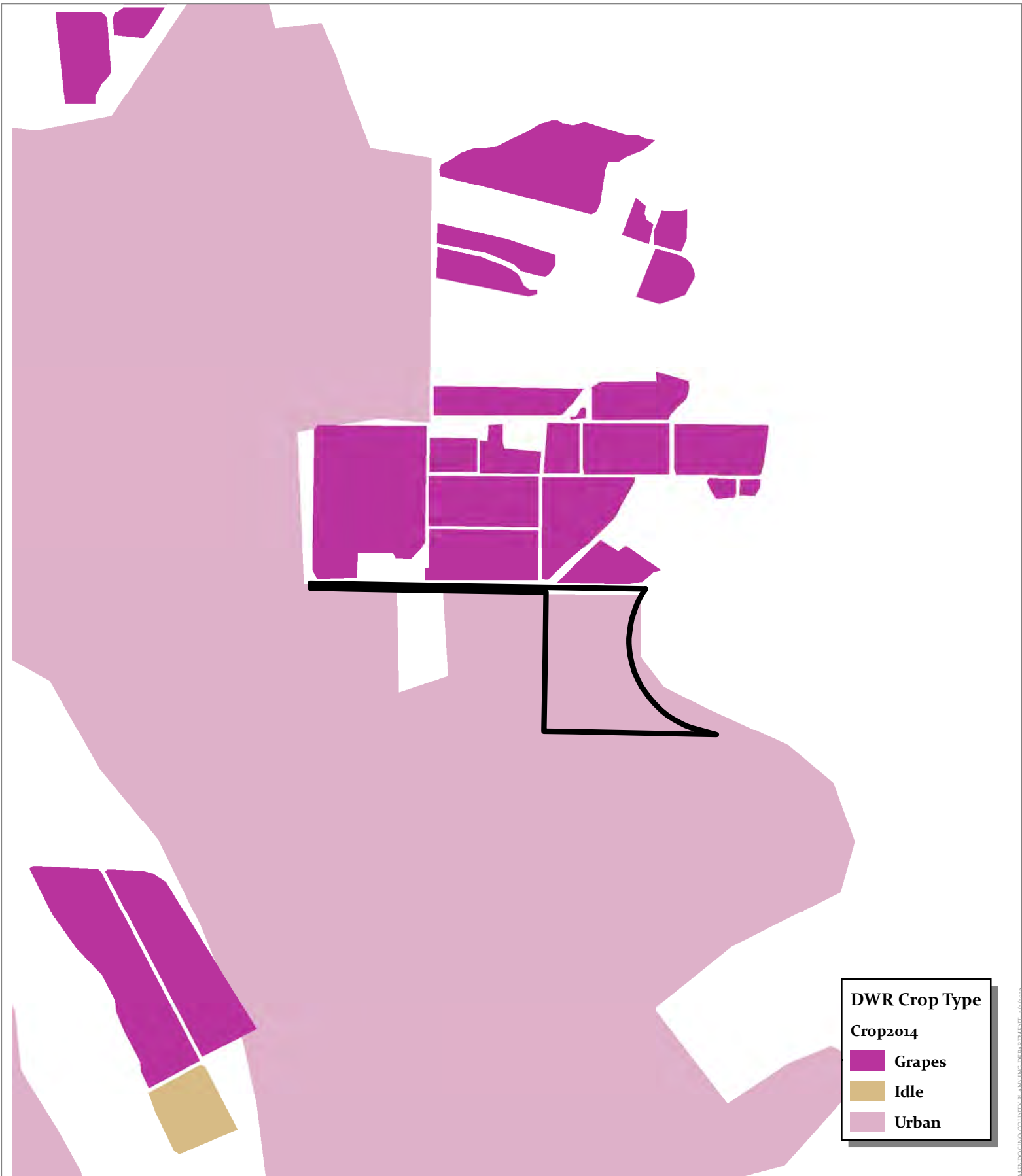
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IMPORTANT FARMLANDS

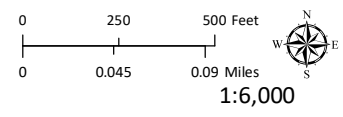
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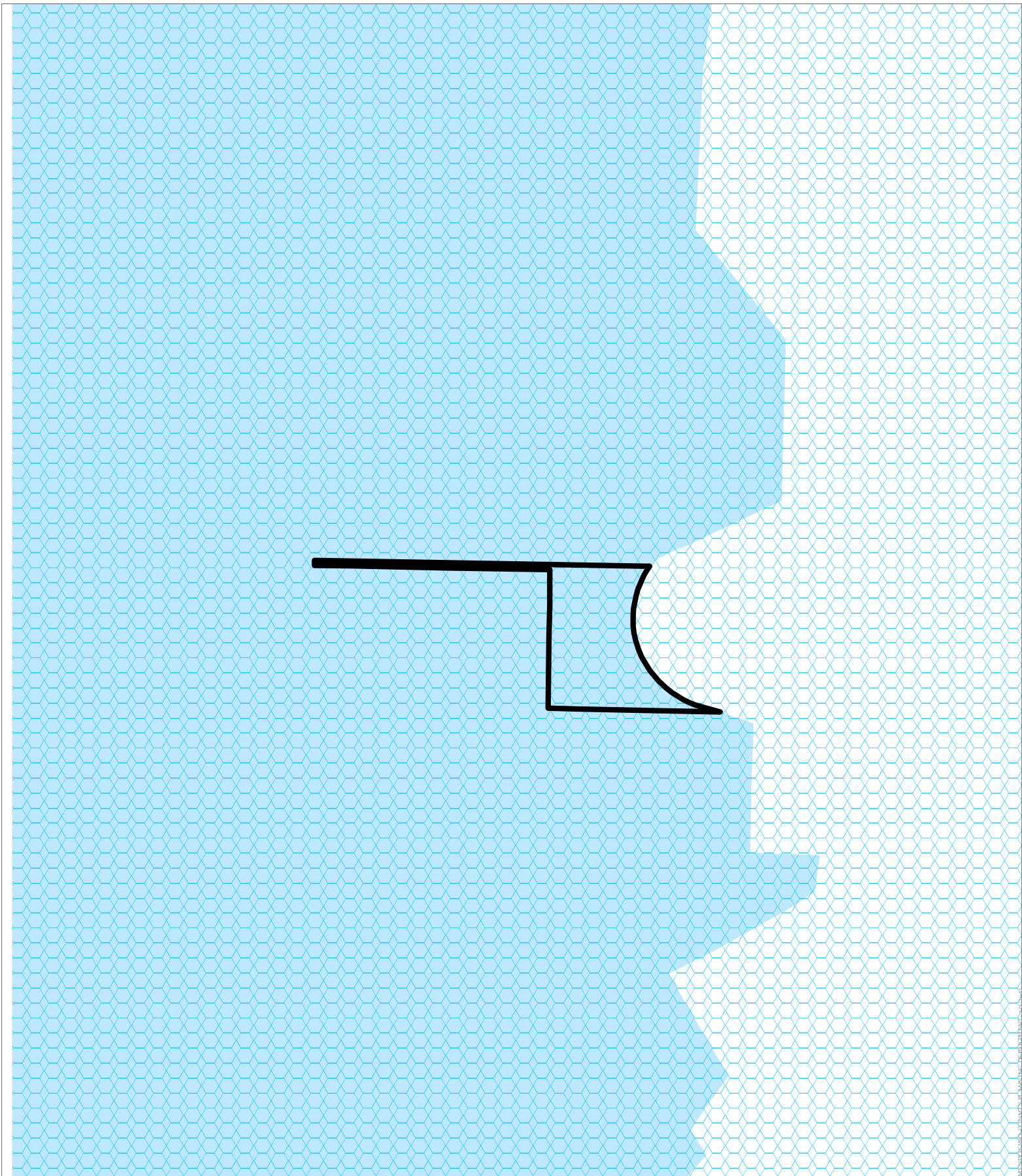
MENDOCINO COUNTY HEALTH AND HUMAN SERVICES DEPARTMENT - 3/24/2023

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


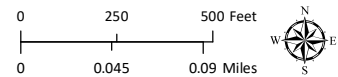
DWR CROP TYPE

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 Russian River Flood District
 County Water Districts



1:6,000

WATER DISTRICTS

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