



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

February 01, 2023

Building Inspection - Ukiah
Assessor

Air Quality Management
Cloverdale Rancheria

Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians

CASE#: AP_2022-0052

DATE FILED: 11/30/2022

OWNER: WILSEY BRIAN H & DONNA J

APPLICANT/AGENT: Faulk and Foster/Tracy Malone

REQUEST: Administrative Permit to remove three GSM antennas and a LTE antenna and replace them with two new antennas that are slightly wider. There will be no ground lease area expansion or trenching of any kind.

LOCATION: 2.5± miles southwest of the City of Ukiah center, on the north side of Oak Knoll Road (CR 252), 1.8± miles west of its intersection with Spanish Canyon Road (CR 252G), located at 1600 Oak Knoll Rd. Ukiah (APN: 157-160-10).

SUPERVISORIAL DISTRICT: 5

STAFF PLANNER: KEITH GRONENDYKE

RESPONSE DUE DATE: February 15, 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_2022-0052

OWNER: Brian & Donna J Wilsey

APPLICANT: California Rural Service Area #1

AGENT: Faulk and Foster/Tracey Malone

REQUEST: Administrative Permit to remove three GSM antennas and a LTE antenna and replace them with two new antennas that are slightly wider. There will be no ground lease area expansion or trenching of any kind.

LOCATION: 2.5± miles southwest of the City of Ukiah center, on the north side of Oak Knoll Road (CR 252), 1.8± miles west of its intersection with Spanish Canyon Road (CR 252G), located at 1600 Oak Knoll Rd. Ukiah (APN: 157-160-10).

APN: 157-160-10-00

PARCEL SIZE: 5,625 square feet leased of 34.64 ± Acre Parcel

GENERAL PLAN: Remote Residential 20 Acre Minimum (RMR20)

ZONING: Upland Residential 40 Acre Minimum (UR:40)

EXISTING USES: Telecommunications

SUPERVISORIAL DISTRICT: 5TH (Williams)

RELATED CASES:

- Minor Subdivision MS# 204-77 created 4 parcels including the subject parcel. Subsequent Boundary Line Adjustment B# 67-87 was approved resulting in the parcel's current configuration. General Plan Amendment GP# 21-87 (approved by Board of Supervisors July 22,1988) successfully changed the General Plan land use classification from Remote Residential 40-acre minimum to Remote Residential – 20 acre minimum, however a Rezone application was never received and therefore, the Upland Residential – 40 acre minimum base zoning designation remains today.
- On January 4, 2001, the Planning Commission approved U# 22-2000 and granted conditional approval for US Cellular to construct a 150-foot-tall telecommunication tower on the Wilsey property. The Commission's decision was not appealed to the Board of Supervisors. After the tower was constructed, numerous residents began to express concerns regarding aesthetic impacts, devalue of property and damage to Oak Knoll Road. Formal complaints were filed with the Department of Planning and Building Services claiming that the applicant supplied misleading written and verbal information at the public hearing which influenced the Commission to approve the project. Additional allegations from the public included constructing the tower in a different location than shown on the site plan and that the tower may be taller than the 150-foot approved height.
- The Commission met on May 2, 2002 to determine the validity of public concerns and possibly take action to modify condition terms or revoke the Use Permit entirely (Use Permit Modification/Revocation UM# 22-2000/2002). After much discussion, the Commission chose to add new and modify previous conditions reducing the overall tower height to less than 75 feet, limiting total panel and microwave antennas on tower by all wireless carriers to twelve or less, and restricting the use of a generator or propane tank at the site unless authorized by a future use permit modification.
- On July 16, 2009, the Planning Commission approved Use Permit Modification #UM 22-2000/2009 to add three (3) panel antennas and one (1) microwave dish to the existing 65-foot-tall telecommunication tower and to place a battery backup power system, a GPS antenna and four (4) equipment cabinets within a 5,625 square foot leased area.
- December 31, 2014 the Zoning Administrator approved Administrative Permit AP_2014-0025 to add one (1) Long-Term Evolution (LTE) antenna, one (1) pipe mount and two (2) coax.
- On October 4, 2016 the Planning Commission approved Use Permit Modification UM_2016-0002 to add a backup generator, propane fuel tank and concrete pad to the existing telecommunications facility.
- On September 16, 2019 Administrative Permit AP_2019-0046 was approved to install three (3) new antennas and three (3) new radio units on the existing 70 foot tall lattice telecommunications tower.
- Use Permit Renewal UR_2019-0003 was administratively approved October 1, 2020 and authorized continue operation and use of the existing telecommunications facility.
- On November 30, 2020 AP2020-0027 was administratively approved to authorize a diesel fuel emergency electricity generator to be installed within the existing lease area.
- On February 18, 2022, AP 2021-0020 was approved administratively to authorize the removal of existing antennas and the installation of additional new antennas.

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	Remote Residential (RMR 40)	Upland Residential (UR:40)	81.68± Acres	Vacant
EAST:	Remote Residential (RMR 40)	Upland Residential (UR:40)	20± & 40± Acres	Residential
SOUTH:	Rangeland (RL 160)	Rangeland (RL:160)	17.47± & 23.61± Acres	Residential
WEST:	Remote Residential (RMR 20)	Upland Residential (UR 40)	5.48± Acres	Telecommunications

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Assessor's Office
- Building Division Ukiah

TRIBAL

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

ADDITIONAL INFORMATION:

STAFF PLANNER: KEITH GRONENDYKE

DATE: 1/13/2023

ENVIRONMENTAL DATA

1. MAC:

GIS
N/A

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS
High and Very High Fire Hazard

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS
Ukiah Valley Fire Protection District

4. FARMLAND CLASSIFICATION:

GIS
G

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
Maymen-Estel-Snook, 30 to 75 percent slopes., hopland-Woodln complex, 30 to 50 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:

NO

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
NO

17. LANDSLIDE HAZARD:

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44
NO

18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34
NO

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
NO

21. STATE CLEARINGHOUSE REQUIRED:

Policy
NO

22. OAK WOODLAND AREA:

USDA
N/A

23. HARBOR DISTRICT:

Sec. 20.512
NO



PLANNING & BUILDING SERVICES

CASE NO: AP 2022-0052
DATE FILED: 11-28-22
FEE: 2786
RECEIPT NO: PRJ 053336
RECEIVED BY: KG
Office Use Only

APPLICATION FORM

APPLICANT:

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: Brian H. and Donna J. Wilsey Phone: not applicable - all permission given in lease
Mailing Address: 13750 Mountain House Road
City: Hopland State/Zip: CA 95449 Email: not applicable - all permission given in lease

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: 157-160-10-00

TYPE OF APPLICATION:

- X 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.

Mendocino County
NOV 28 2022
Planning & Building Services

Tracey Malone 11/18/22 see attached lease
Signature of Applicant/Agent Date 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.

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.

_____ Date _____
 Owner/Authorized Agent

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.

_____ Date _____
 Owner

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.

California RSA #9 by its agent Faulk & Foster , Tracey Malone

12/8/2022

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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2023 Modernization Project

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.

36900 Mountain View Rd, Point Arena, CA 95469 and

Site Address: 1600 Oak Knoll Road, Ukiah, CA 95482

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: Michael Szlamczynski Date: 11/18/2022

TO BE FILLED OUT BY PLANNING AND BUILDING STAFF

APPLICATION NUMBER: _____

ACCEPTED BY: _____



Mendocino County

Planning and Building Services

860 North Bush Street
Ukiah, CA 95482
(707) 234-6650

120 West Fir Street
Fort Bragg, CA 95437
(707) 964-5379

Paid By: Faulk and Foster/Tracy Malone
1811 Auburn Avenue

Monroe

LA 71201

Project Number: AP_2022-0052

Project Description: Faulk and Foster.cell tower equipment

Site Address: 1600 OAK KNOLL RD

AP_2022-0052

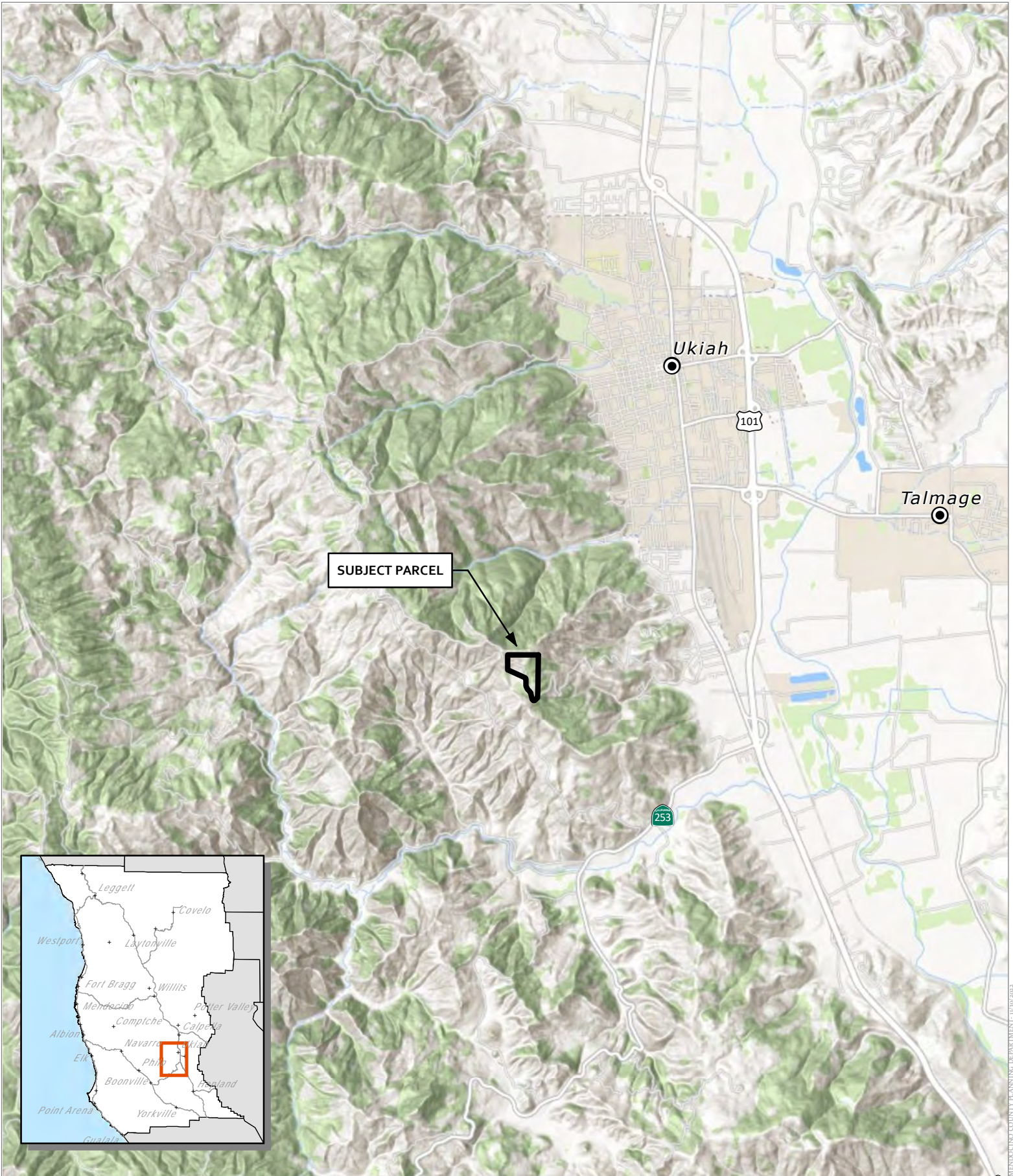
Receipt: PRJ_053336

Date: 11/30/2022

Pay Method: CHECK 341437

Received By: KEITH GRONENDYKE

<u>Fee Description</u>	<u>Account Number</u>	<u>Qty</u>	<u>Fee Amount</u>
BASE FEES	1100-2851-822605		\$2,483.00
WC BASE			\$2,483.00
GENERAL PLAN	1100-2851-826188		\$175.00
			\$175.00
RECORDS MANAGEMENT	1222-2852-826260		\$128.00
			\$128.00
Total Fees Paid:			\$2,786.00



SUBJECT PARCEL

Ukiah

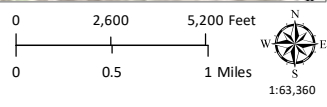
101

Talmage

253



Major Towns & Places

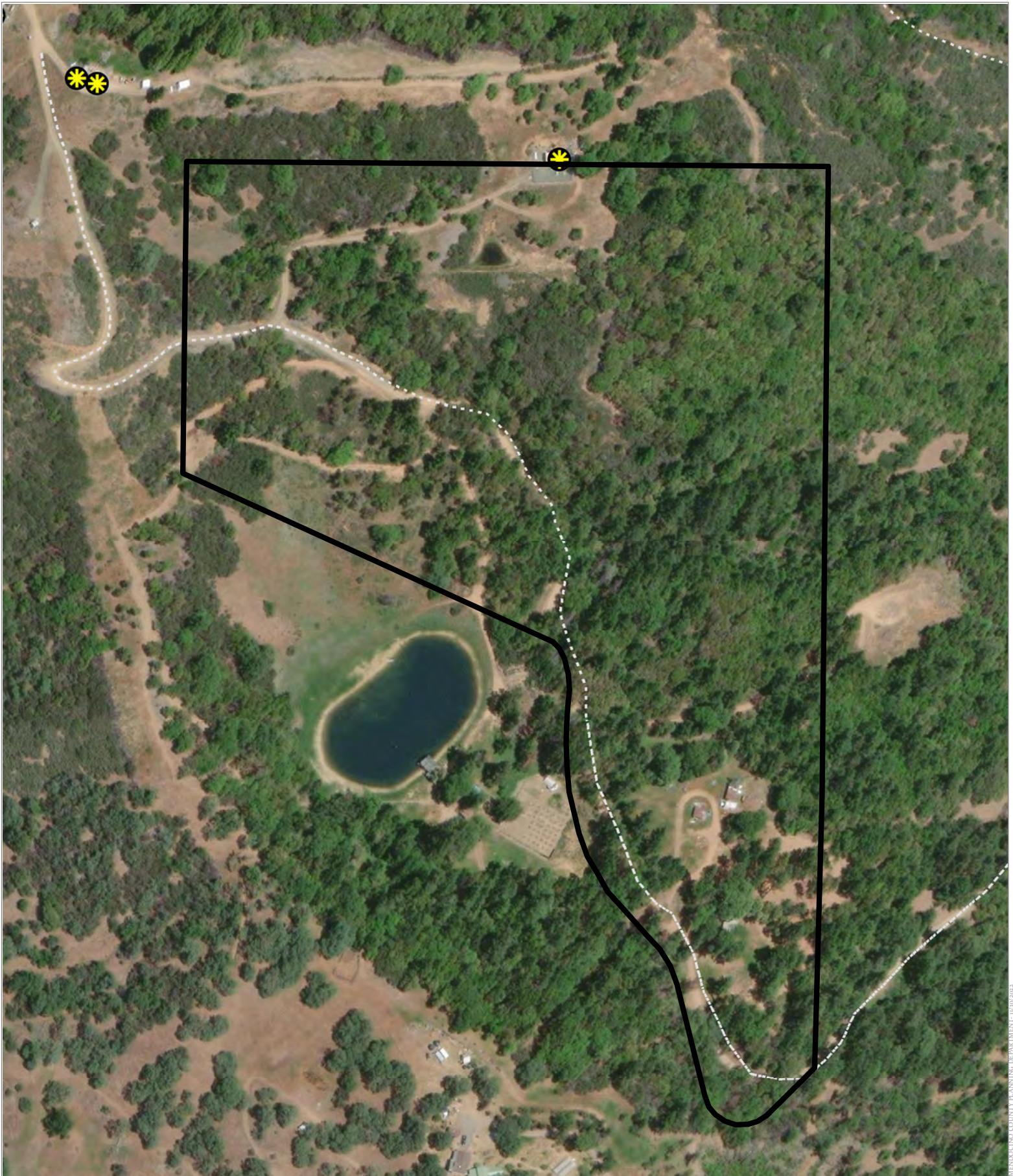


CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah


LOCATION

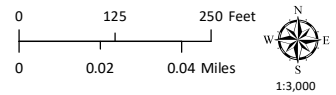
THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES

MENDOCINO COUNTY PLANNING DEPARTMENT - 11/20/2022



CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

 Approved Wireless Sites



AERIAL IMAGERY

**THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
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VENTURA COUNTY PLANNING DEPARTMENT | 11/20/2023



PLANNING & BUILDING SERVICES

CASE NO: AP 2022-0052
DATE FILED: 11-28-22
FEE: 2786
RECEIPT NO: PRJ 053336
RECEIVED BY: KG
Office Use Only

APPLICATION FORM

APPLICANT:

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: Brian H. and Donna J. Wilsey Phone: not applicable - all permission given in lease
Mailing Address: 13750 Mountain House Road
City: Hopland State/Zip: CA 95449 Email: not applicable - all permission given in lease

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: 157-160-10-00

TYPE OF APPLICATION:

- X 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.

Mendocino County
NOV 28 2022
Planning & Building Services

Tracey Malone 11/18/22 see attached lease
Signature of Applicant/Agent Date Signature of Owner Date

SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

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

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?

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No. of standard spaces:	_____	_____
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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
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 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.

_____ Date _____
 Owner/Authorized Agent

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.

_____ Date _____
 Owner

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.

California RSA #9 by its agent Faulk & Foster , Tracey Malone

12/8/2022

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
 PHONE: 707-234-6650
 FAX: 707-463-5709
 FB PHONE: 707-964-5379
 FB FAX: 707-961-2427
 pbs@mendocinocounty.org
 www.mendocinocounty.org/pbs

2023 Modernization Project

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.

36900 Mountain View Rd, Point Arena, CA 95469 and

Site Address: 1600 Oak Knoll Road, Ukiah, CA 95482

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: Michael Szlamczynski Date: 11/18/2022

TO BE FILLED OUT BY PLANNING AND BUILDING STAFF

APPLICATION NUMBER: _____

ACCEPTED BY: _____



Mendocino County

Planning and Building Services

860 North Bush Street
Ukiah, CA 95482
(707) 234-6650

120 West Fir Street
Fort Bragg, CA 95437
(707) 964-5379

Paid By: Faulk and Foster/Tracy Malone
1811 Auburn Avenue

Monroe

LA 71201

Project Number: AP_2022-0052

Project Description: Faulk and Foster.cell tower equipment

Site Address: 1600 OAK KNOLL RD

AP_2022-0052

Receipt: PRJ_053336

Date: 11/30/2022

Pay Method: CHECK 341437

Received By: KEITH GRONENDYKE

<u>Fee Description</u>	<u>Account Number</u>	<u>Qty</u>	<u>Fee Amount</u>
BASE FEES	1100-2851-822605		\$2,483.00
WC BASE			\$2,483.00
GENERAL PLAN	1100-2851-826188		\$175.00
			\$175.00
RECORDS MANAGEMENT	1222-2852-826260		\$128.00
			\$128.00
Total Fees Paid:			\$2,786.00

SCOPE OF WORK

TOWER SCOPE			
MODERNIZATION SCOPE (REMAIN/RELOCATE)			
	QTY.	EQUIPMENT	ACTION
ANTENNA(S)/EQUIP.	4	CDMA ANTENNA(S) @ 65.0'	TO REMAIN
	1	CDMA ANTENNA(S) @ 65.0'	TO BE RELOCATED
TRANSMISSION CABLE(S)	6	7/8" CDMA COAX	TO REMAIN
COAX JUMPERS:	-	EXISTING CDMA COAX JUMPERS	REPLACE AS NECESSARY
GROUND BAR(S):	-	ANTENNA GROUND BAR*	G.C. TO VERIFY
	-	MD TOWER GROUND BAR*	G.C. TO VERIFY
	-	LOWER TOWER GROUND BAR*	TO REMAIN

MODERNIZATION SCOPE (TO BE INSTALLED)			
ANTENNA(S)/EQUIP.	2	LTE ANTENNA(S) @ 65.0'	TO BE INSTALLED
	1	RAYCAP SPD(S)	TO BE INSTALLED
	3	REMOTE RADIO(S)	TO BE INSTALLED
TRANSMISSION CABLE(S)	1	1-1/4" EUPEN HYBRID CABLE(S)	TO BE INSTALLED
	2	RET JUMPER(S)	TO BE INSTALLED
COAX JUMPERS: SEE T-502 FOR	-	NEW LTE COAX JUMPERS	TO BE INSTALLED
GROUND BAR(S):	1	EQUIPMENT GROUND BARS	TO BE INSTALLED

POST-INTEGRATION SCOPE (DECOM)			
ANTENNA(S)/EQUIP.	1	LTE ANTENNA(S) @ 67.0'	TO BE REMOVED
	3	GSM ANTENNA(S) @ 67.0'	TO BE REMOVED
TRANSMISSION CABLE(S)	8	1-5/8" LTE COAX	TO BE REMOVED
COAX JUMPERS:	-	EXISTING LTE & GSM COAX JUMPERS	TO BE REMOVED

COMPOUND SCOPE			
	QTY.	EQUIPMENT	ACTION
CABLE ROUTE:	-	ICE BRIDGE HANGERS	ADEQUATE - TO REMAIN
	-	SHELTER COAX PORT	ADEQUATE - TO REMAIN
GROUND BAR(S):	-	SHELTER EXTERIOR GROUND BAR*	ADEQUATE - TO REMAIN

SHELTER INTERIOR SCOPE			
MODERNIZATION SCOPE (REMAIN/RELOCATE)			
GROUND BAR(S):	-	GROUND BAR AT COAX PORT*	TO REMAIN

MODERNIZATION SCOPE (TO BE INSTALLED)			
EQUIPMENT:	1	RAYCAP PDU(S)	BY OTHERS
AUX RACK:	-	BASE BAND UNIT (BBU)	BY OTHERS
	1	RAYCAP FIBER TRAY(S)	TO BE INSTALLED

POST-INTEGRATION SCOPE (DECOM)			
EQUIPMENT:	2	LTE DIPLEXERS	TO BE REMOVED
	3	RADIO UNIT(S)	TO BE REMOVED
	2	RF RADIO MODULE(S)	TO BE REMOVED
EQUIPMENT RACK:	1	LTE EQUIPMENT RACK(S)	TO BE REMOVED

SPECIAL REQUIREMENTS			
U.S. CELLULAR PANEL ANTENNAS TO BE VERTICALLY CENTERED ON MOUNTS.			
NEW 2" SCH 40 (2-3/8" O.D.) MAST PIPE (2 TOTAL).			
STABILIZER ARMS TO BE INSTALLED ON EXISTING SECTOR FRAMES (4 TOTAL).			
EXISTING CDMA ANTENNA TO BE RELOCATED TO INNER MAST PIPES (TYP. OF 1).			
EXISTING ANTENNA AZIMUTHS TO BE ADJUSTED TO MATCH MODERNIZATION RF DESIGN.			
EX. U.S. CELLULAR LTE ANTENNAS & COAX TO BE REMOVED POST INTEGRATION.			

*BRING UP TO U.S. CELLULAR STANDARDS AS NECESSARY



Mendocino County

**SPANISH MT (568378)
UKIAH, CALIFORNIA
MODERNIZATION DRAWINGS
W4.DX2010-SS**

**NSN// B12/B71 2T2R / B2/B66 2T2R / B5 2T2R
70' SELF-SUPPORT TOWER**

NOV 28 2022

Planning & Building Services

CONSULTANT:
Edge
Consulting Engineers, Inc.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.844.1449 VOICE
608.844.1549 FAX
www.edgeconsult.com

CORE engineering
12308 CORPORATE PKWY.
SUITE 400
MEQUON, WI 53092
262.307.9998 DIRECT

CLIENT:
uscellular
U.S. CELLULAR
8410 W. BRYN MAWR AVE.
SUITE 700
CHICAGO, IL 60631

ENGINEER SEAL:

SITE LOCATION MAP



DIRECTORY

CLIENT:
U.S. CELLULAR
8410 W. BRYN MAWR AVE., SUITE 700
CHICAGO, IL 60631
CONTACT: LAUREN MCNEILL

ENGINEERING COMPANY:
EDGE CONSULTING ENGINEERS, INC.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
PROJECT MANAGER: MICHAEL MUEHRER

SITE ACQUISITION:
FAULK & FOSTER
1811 AUBURN AVE.
MONROE, LA 71201
CONTACT: DAN HOOVER

PROJECT INFO

SITE LOCATION:
1800 OAK KNOLL ROAD
UKIAH, CA
MENDOCINO COUNTY

SITE #: 568378
FCC #: 1223187
MAX. APPURT (PER FCC): 165'
STRUCTURE HEIGHT (PER FCC): 150'

TOWER OWNER:
U.S. CELLULAR
8410 W. BRYN MAWR AVE., SUITE 700
CHICAGO, IL 60631

SITE COORDINATES:
LAT: 39.11611°
LONG: -123.22944°

SHEET INDEX

NO.:	SHEET TITLE
G-001	TITLE SHEET
C-101	SITE PLAN
C-102	ENLARGED SITE PLAN
A-101	SHELTER INTERIOR PLAN
A-501	BLOCK DIAGRAM
T-001	ANTENNA SPECIFICATIONS
T-002	ANTENNA SPECIFICATIONS
T-003	EQUIPMENT SPECIFICATIONS
T-004	MOUNTING SPECIFICATIONS
T-201	SITE ELEVATION
T-301	ANTENNA CONFIGURATION
T-302	EQUIPMENT CONFIGURATION
T-501	INSTALLATION DETAILS
T-502	CABLE DETAILS
T-503	CABLE BANDING DETAILS
V-501	CABLE ROUTING
P-501	PLUMBING DIAGRAM
E-501	GROUNDING DETAILS
R-901	SITE PHOTOS

**TITLE SHEET
SPANISH MT (568378)
UKIAH, CALIFORNIA**

SUBMITTAL:

INT.	DATE	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.

I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.

CHECKED BY: MRM

PLOT DATE: 9/30/2022

PROJECT NUMBER: 33806

SET TYPE: FINAL

SHEET NUMBER: **G-001**

SIGNATURE:

DATE: 10/3/22

ENGINEER SEAL:

STRUCTURAL

INVENTORY REPORT:
EDGE CONSULTING ENGINEERS, INC.
REPORT #: 33806 DATED: 06/21/2022

TOWER ANALYSIS:
TOWER ENGINEERING PROFESSIONALS
REPORT #: 52509.740034 DATED: 09/09/2022
CONCLUSION: SUFFICIENT CAPACITY

MOUNT ANALYSIS (EXISTING):
CORE 4 ENGINEERING
REPORT #: 22032.017 DATED: 09/26/2022
CONCLUSION: MODIFICATIONS REQUIRED

CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA, CALL DIGGERS HOTLINE

NORTH: 1-800-642-2444
Northern and Central California, from the California/Oregon border south to Kern and San Luis Obispo county

SOUTH: 1-800-422-4133
Imperial, Inyo, Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara and Ventura Counties

CA STATUTE REQUIRES MIN. 2 WORKING DAYS, NOT INCLUDING THE DATE OF MOTIVATION, BUT NOT MORE THAN 14 CALENDAR DAYS NOTICE BEFORE EXCAVATION.



EXISTING FENCED COMPOUND;
SEE C-102 FOR DETAILS

EXISTING SELF-SUPPORT TOWER;
SEE T-201 FOR DETAILS

EXISTING ACCESS DRIVE

OAK KNOLL ROAD

CONSULTANT:
Edge
Consulting Engineers, Inc.
634 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
www.edgeconsult.com

CORE engineering
12308 CORPORATE PKWY.
SUITE 450
MEQUON, WI 53092
262.307.9688 DIRECT

CLIENT:
uscellular
U.S. CELLULAR
8410 W. BRYN MAWR AVE.
SUITE 700
CHICAGO, IL 60631

ENGINEER SEAL:

MATTHEW H. CHRISTENSEN
55884
STATE OF CALIFORNIA
9/30/22

SITE PLAN
SPANISH MT (568378)
UKIAH, CALIFORNIA

SUBMITTAL:

INT.	DATE	DESCRIPTION
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY: MRM

PLOT DATE: 9/30/2022

PROJECT NUMBER: 33806

SET TYPE: FINAL

SHEET NUMBER: **C-101**

- NOTES:
1. AERIAL IMAGERY FROM GOOGLE EARTH.
 2. NORTH ARROW SHOWN AS APPROXIMATE.
 3. SITE PHOTOS PROVIDED BY EDGE CONSULTING ENGINEERS, INC.
 4. NO SURVEY AVAILABLE. SITE LAYOUT BASED ON FIELD MEASUREMENTS AND SITE PHOTOS.

I:\33806\33806\DWG\CAD\CD\Plan\C-101.dgn



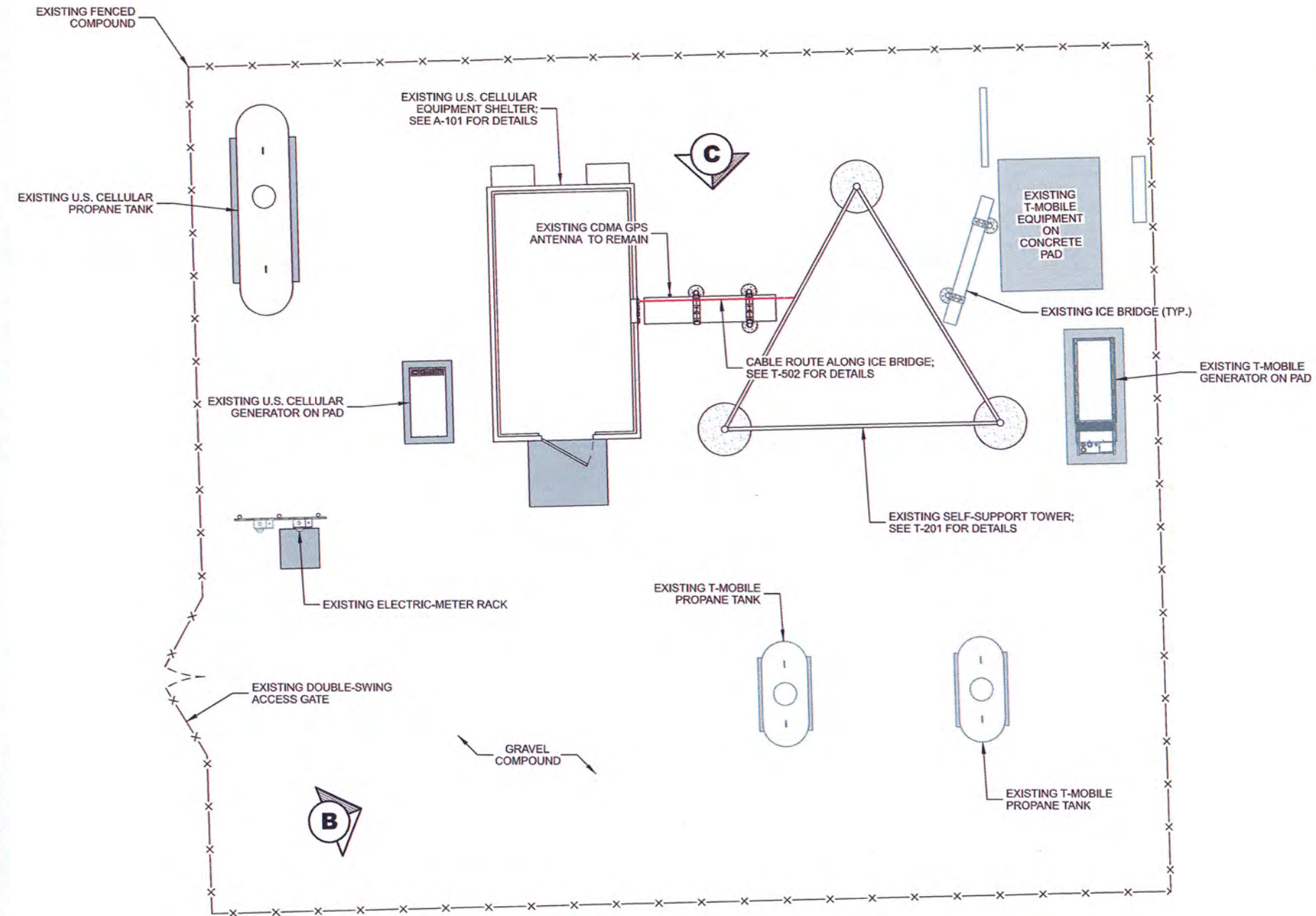
A COMPOUND OVERVIEW



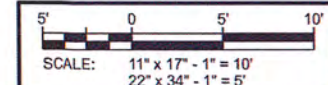
B COMPOUND OVERVIEW



C ICE BRIDGE



- NOTES:
1. NORTH ARROW SHOWN AS APPROXIMATE.
 2. SITE PHOTOS PROVIDED BY EDGE CONSULTING ENGINEERS, INC.
 3. THE ENTIRE SITE SHALL BE RESTORED TO PRE-PROJECT CONDITIONS AT THE COMPLETION OF THE PROJECT.
 4. NO SURVEY AVAILABLE. SITE LAYOUT BASED ON FIELD MEASUREMENTS AND SITE PHOTOS.



CONSULTANT:
Edge
 Consulting Engineers, Inc.
 634 WATER STREET
 PRAIRIE DU SAC, WI 53578
 608.644.1449 VOICE
 608.644.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.307.9688 DIRECT

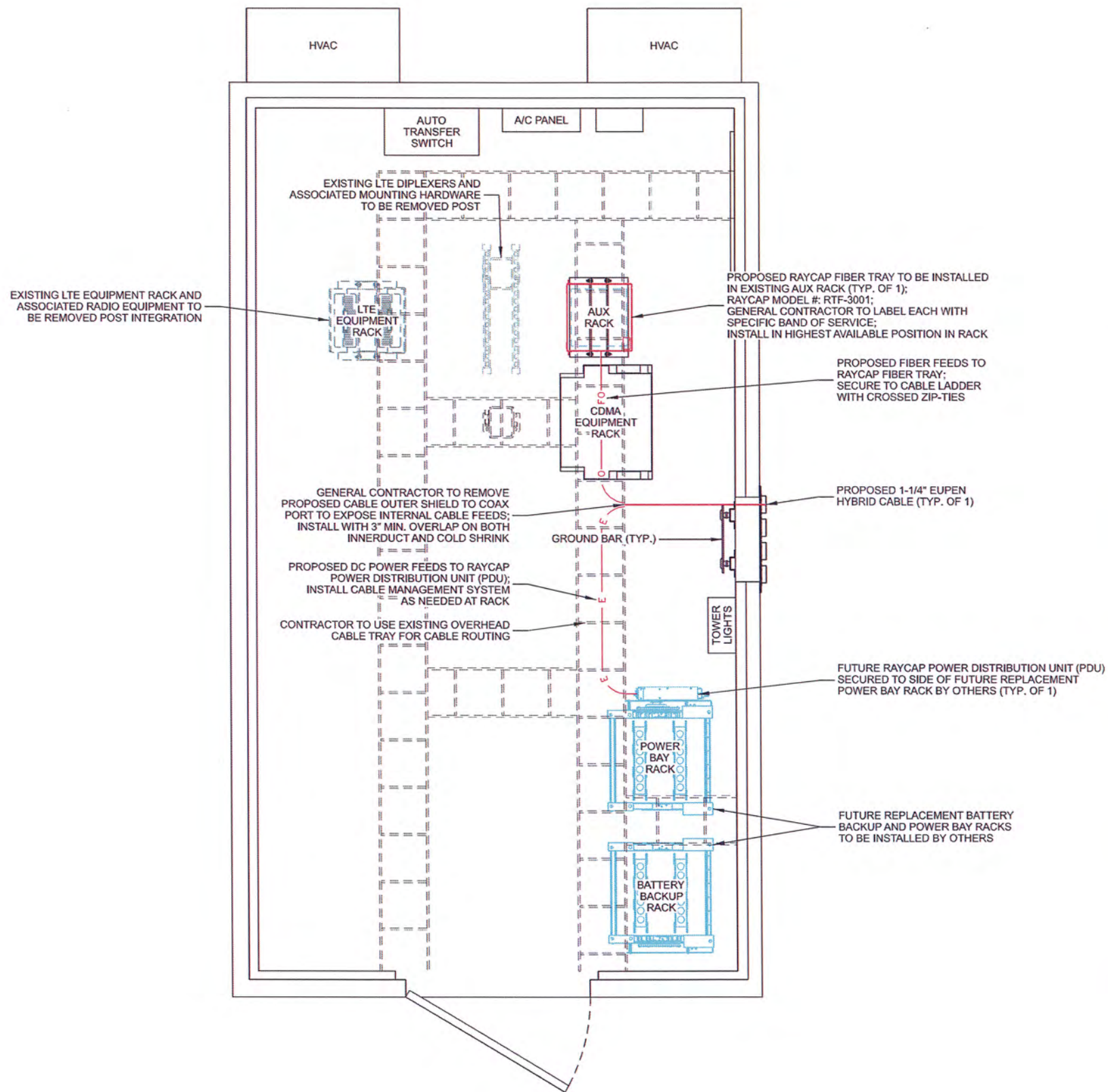
CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

ENLARGED SITE PLAN
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY:	MRM
PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL
SHEET NUMBER:	C-102



A SHELTER INTERIOR LAYOUT
 SCALE: 11" x 17" - 3/8" = 1'-0"
 22" x 34" - 3/4" = 1'-0"

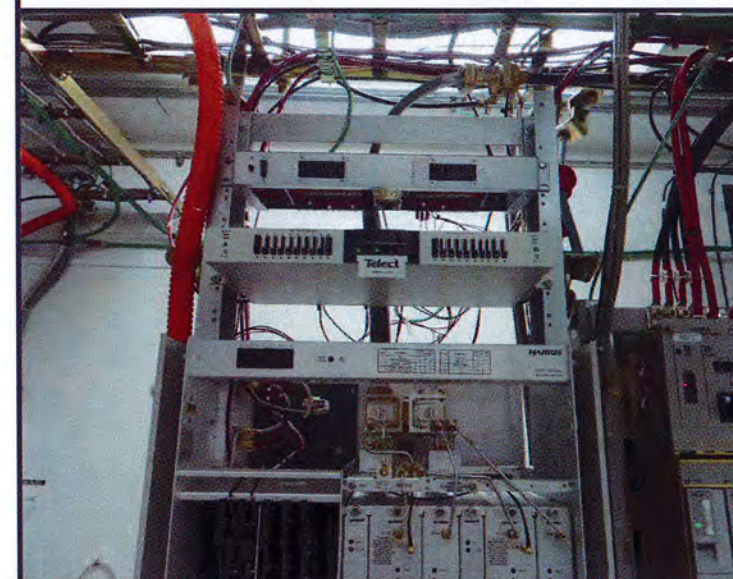
MANUFACTURER: RAYCAP
MODEL: RUSDC-1176-PDU-48 (BREAKERS NOT INCLUDED)
 RUSDC-1176-PDU-48-AMCB-1240 (12 x 40A BREAKERS INCLUDED)
DIMENSIONS: 18.99" x 19.00" x 3.48" (D x W x H)
WEIGHT: 22 LBS (WITHOUT BREAKERS)

OPTIONAL ACCESSORIES
 12 BREAKER KIT FOR ERICSSON RADIO SET: AMCB-48-1225-KIT
 9 BREAKER KIT FOR NOKIA RADIO SET: AMCB-48-0640-0325-KIT
 40A CIRCUIT BREAKER: AMCB-48-0140
 25A CIRCUIT BREAKER: AMCB-48-0125
 CABLE STORAGE: RTF-6601

2RU RACK MOUNTED DC SURGE SUPPRESSION AND POWER DISTRIBUTION SYSTEM FOR USE IN REMOTE RADIO HEAD (RRH) AND MULTI-CIRCUIT, DISTRIBUTED ANTENNA SYSTEMS.



B RAYCAP POWER DISTRIBUTION UNIT (PDU)



C EXISTING AUX EQUIPMENT RACK



D EXISTING LTE RACK(S) TO BE REMOVED

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 608.644.1549 FAX
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 MEQUON, WI 53092
 262.307.9988 DIRECT

CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

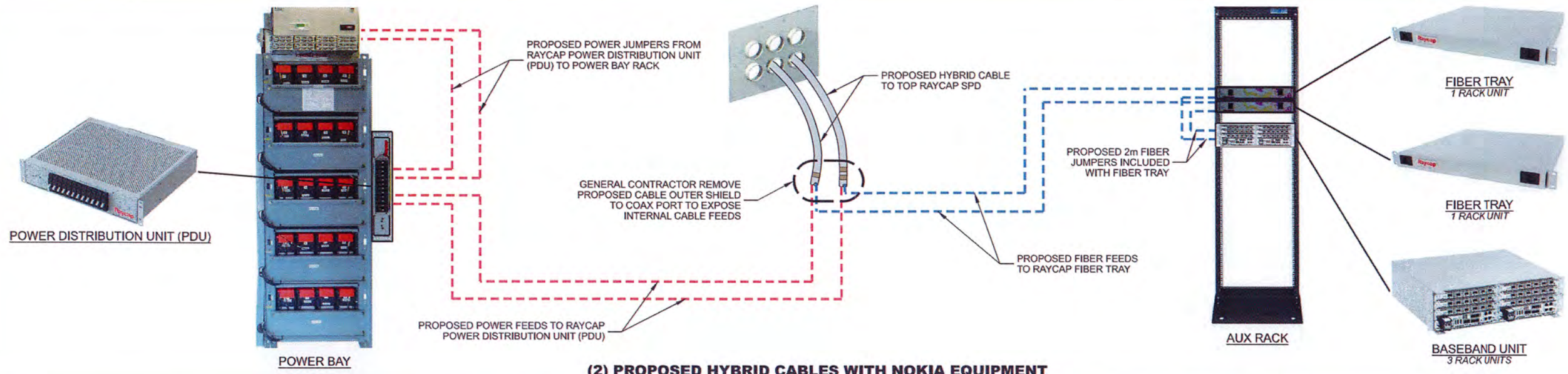
ENGINEER SEAL:
 REGISTERED PROFESSIONAL ENGINEER
 MAY 17TH 1978 IN CHRISTIANITY
 S5884
 STATE OF CALIFORNIA
 9/30/22

SHELTER INTERIOR PLAN
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

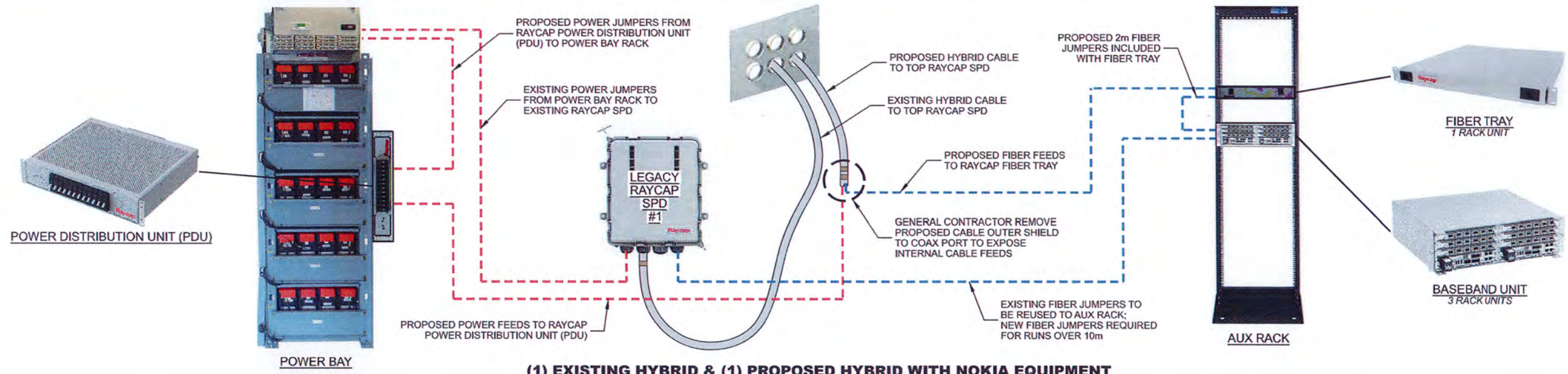
INT.	DATE:	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY:	MRM
PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL

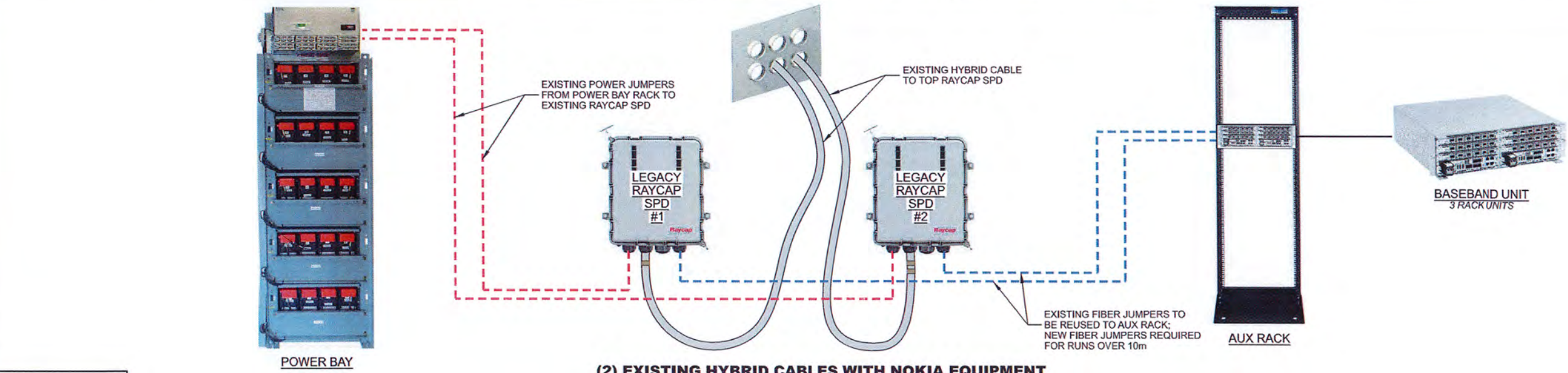
SHEET NUMBER **A-101**



(2) PROPOSED HYBRID CABLES WITH NOKIA EQUIPMENT



(1) EXISTING HYBRID & (1) PROPOSED HYBRID WITH NOKIA EQUIPMENT



(2) EXISTING HYBRID CABLES WITH NOKIA EQUIPMENT

CONSULTANT:
Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRARIE DU SAC, WI 53578
 608.844.1449 VOICE
 608.844.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.307.9988 DIRECT

CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

 REGISTERED PROFESSIONAL ENGINEER
 MATTHEW A. CHRISTENSEN
 STATE OF CALIFORNIA
 55884
 9/30/22

BLOCK DIAGRAM
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

SUBMITTAL:

INT.	DATE	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY	MRM
PLOT DATE	9/30/2022
PROJECT NUMBER	33806
SET TYPE	FINAL
SHEET NUMBER	A-501

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DATE CREATED: 03/01/2022



Base Station Antennas

Frequency Range	617-894x2 1695-2400x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Type OCT8-2LX2HX-BW65

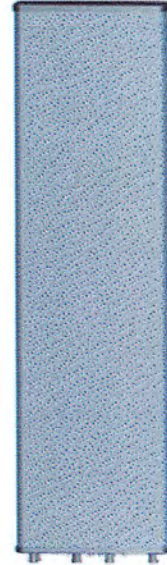
Base Station Antenna

8-ports 617-894 / 617-894 / 1695-2400 / 1695-2400 MHz 65°, 16 / 16 / 18 / 18 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna With 4 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)	2x617-894			2x1695-2400		
	617-698	698-824	824-884	1695-1920	1920-2180	2300-2400
Polarization	±45°					
Horizontal 3dB Beamwidth(°)	70	63	60	66	63	58
Vertical 3dB Beamwidth(°)	10.4	9.1	8.0	5.5	5	4.3
Gain (dBi)	15.0	15.5	16.0	17.6	18.0	18.1
Electrical Downtilt	2°-12°					
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)	≥23	≥24	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥7	≥7	≥7	≥7	≥7
Isolation ports	≥25 dB					
Isolation Frequency	≥30 dB					
VSWR	< 1.5					
Intermodulation IM3	< -150 dBc(2x43dBm carrier)					
Impedance	50 Ω					
Max. Power per Input (at 50°C ambient temperature)	500 W			300 W		
Lightning Protection	DC Ground					



Mechanical Specifications

Redome Material	Fiberglass
Connector Type and Location	4.3-10x8 Bottom iRCU in: 1 x 8 pin male iRCU out: 1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 499 x 160 / 95.9 x 19.6 x 7.1
Packing Size(mm)/(inches)	2750 x 620 x 325 / 108.3 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	47 / 103.4
Weight,with Mounting kit(kg)/(lbs)	53 / 116.6
Packing Weight(kg)/(lbs)	63 / 138.6
Max. Wind Velocity(mph)	150
Mounting hardware	∅ 50 mm ~ ∅ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	1416/280/1027

This publication is issued to information only and is not to form part of any order or contract DENGYO reserves the right to changes specifications without prior notice.

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OCT8-2LX2HX-BW65 Rev.3



Base Station Antennas

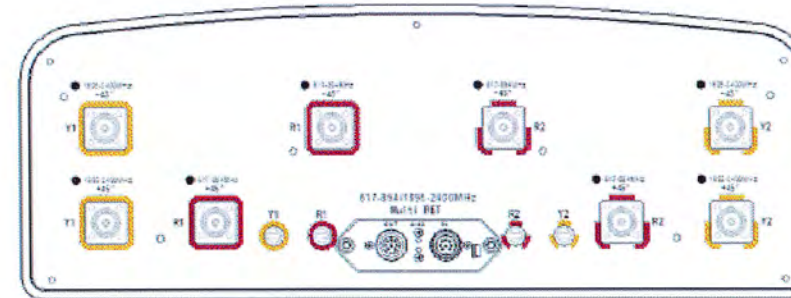
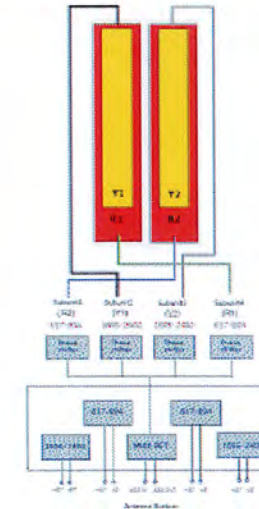
Frequency Range	617-894x2 1695-2400x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Type OCT8-2LX2HX-BW65

Integrated RET Properties

Protocols	Compliant to AISG 2.0/3GPP
Input voltage range	+10~+30VDC(pin 6)
Power consumption	<2W(stand by);<13W(motor activated)
Connectors	AISG 2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
Hardware interface	AISG Two motor shaft(Embedded motor)
Adjustment time(full range)	RS485A/B(pin5/pin3);Power supply(pin6); DC return(pin7)Acc.to AISG
Adjustment Cycles	40 sec(typically,depending on antenna)
Torque Max	≥160mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile,8/20 μs 10 Repetitions Min.@ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs,200 Repetitions Min. @ 0.6kA

COMPREHENSIVE TILT CONFIGURATION



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OCT8-2LX2HX-BW65 Rev.3

CONSULTANT:



CLIENT:



ENGINEER SEAL:



ANTENNA SPECIFICATIONS
SPANISH MT (568378)
UKIAH, CALIFORNIA

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
TAS	09/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY	MRM
PLOT DATE	9/30/2022
PROJECT NUMBER	33806
SET TYPE	FINAL
SHEET NUMBER	T-001

© EDGE CONSULTING ENGINEERS, INC.

A ANTENNA SPECIFICATIONS



Base Station Antennas

Frequency Range	617-894 1695-2400
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2

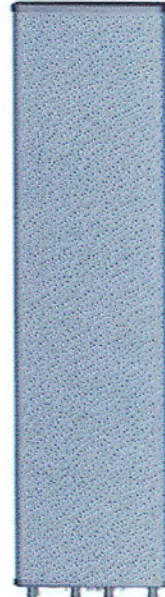
Type QUA8-1LX1HX-BW65

Base Station Antenna

4-ports 617-894 /1695-2400 MHz 65°, 16 / 18 dBi, 2°-12° / 2°-12° Tilt Antenna With 2 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)	617-894			1695-2400		
	617-698	698-824	824-894	1695-1920	1920-2180	2300-2400
Polarization	±45°					
Horizontal 3dB Beamwidth(°)	70	65	60	66	63	58
Vertical 3dB Beamwidth(°)	10.4	9.1	8.0	5.5	5	4.3
Gain (dBi)	15.1	15.6	16.0	17.6	18.0	18.1
Electrical Downtilt	2°-12°			2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)	≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16	≥16	≥16
	±60° (dB)	≥7	≥7	≥7	≥7	≥7
Isolation ports	≥25 dB					
Isolation Frequency	≥30 dB					
VSWR	< 1.5					
Intermodulation IM3	< -150 dBc(2x43dBm carrier)					
Impedance	50 Ω					
Max. Power per Input (at 50°C ambient temperature)	500 W			300 W		
Lightning Protection	DC Ground					



Mechanical Specifications

Radome Material	Fiberglass
Connector Type and Location	4.3-10x4, Bottom IRCU in: 1 x 8 pin male IRCU out: 1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 355 x 165 / 95.9 x 14.0 x 6.5
Packing Size(mm)/(inches)	2710 x 480 x 275 / 106.7 x 18.1 x 10.8
Weight ,w/o Mounting kit(kg)/(lbs)	29 / 63.8
Weight,with Mounting kit(kg)/(lbs)	34 / 74.8
Packing Weight(kg)/(lbs)	40 / 88
Max. Wind Velocity(mph)	150
Mounting hardware	φ 50 mm ~ φ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	1001/271/723

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QUA8-1LX1HX-BW65 Rev.2



Base Station Antennas

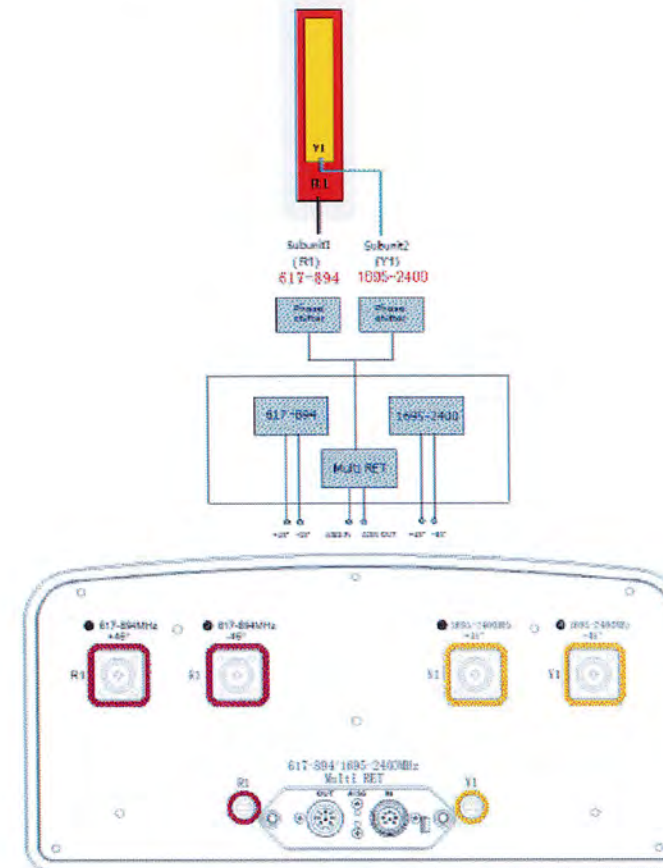
Frequency Range	617-894 1695-2400
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2

Type QUA8-1LX1HX-BW65

Integrated RET Properties

Protocols	Compliant to AISG 2.0/3GPP
Input voltage range	+10~+30VDC(pin 6)
Power consumption	<2W(stand by);<13W(motor activated)
Connectors	AISG 2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in: male Daisy chain out: female
Hardware interface	Antenna Two motor shaft(Embedded motor)
Adjustment time(full range)	AISG RS485A/B(pin5(pin3);Power supply(pin6); DC return(pin7)Acc.to AISG
Adjustment Cycles	40 sec(typically,depending on antenna)
Torque Max	≥10000
Lightning Protection Rating	≥160mN.m IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs, 200 Repetitions Min. @ 0.6kA

COMPREHENSIVE TILT CONFIGURATION



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QUA8-1LX1HX-BW65 Rev.2

CONSULTANT:



CLIENT:



ENGINEER SEAL:



ANTENNA SPECIFICATIONS
SPANISH MT (568378)
UKIAH, CALIFORNIA

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY:

MRM

PLOT DATE:

9/30/2022

PROJECT NUMBER:

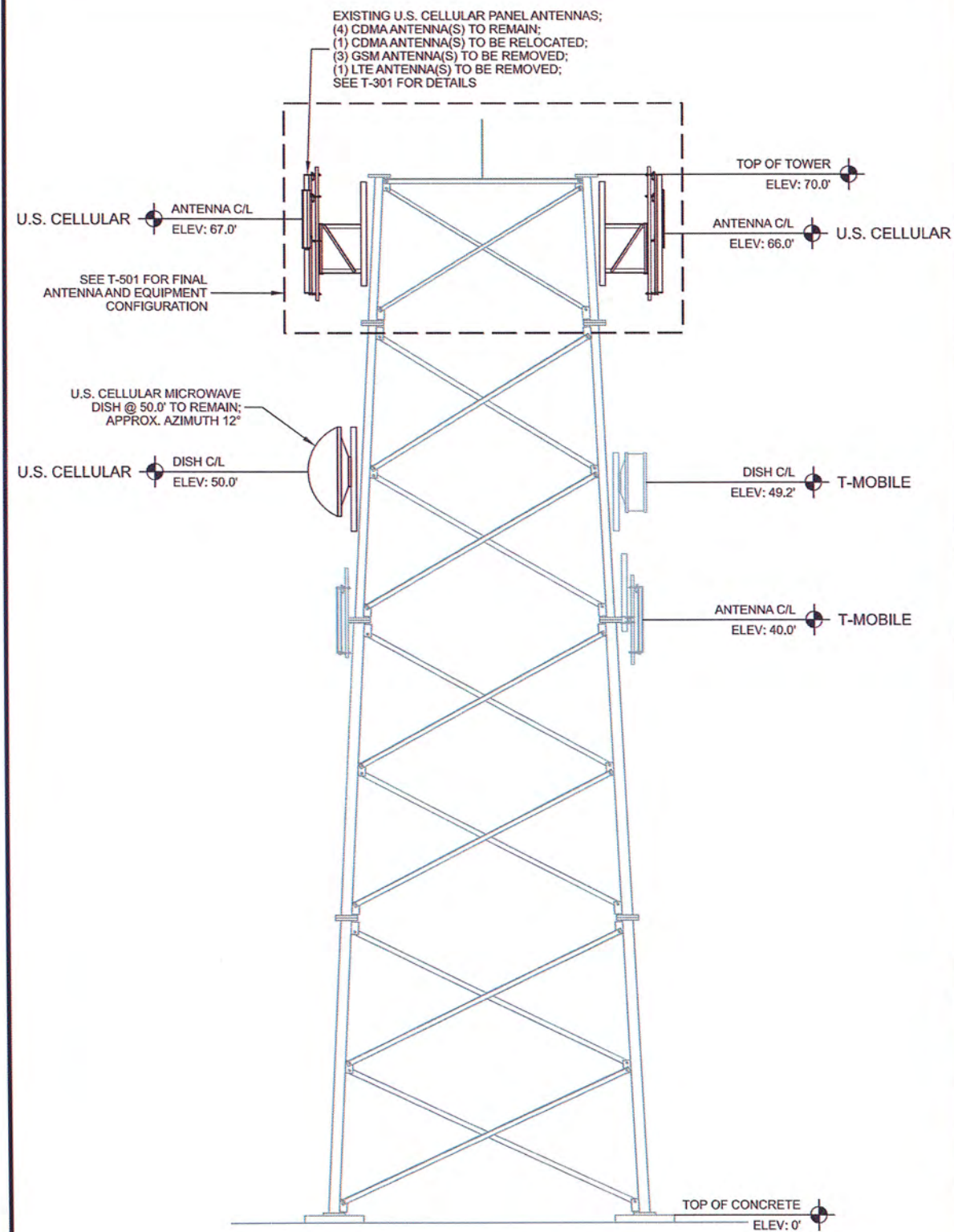
33806

SET TYPE:

FINAL

SHEET NUMBER:

T-002



NOTE:
 1. ELEVATIONS ARE BASED ON MEASUREMENTS EXTRAPOLATED FROM UAS 3D POINT CLOUD. HEIGHTS ARE ROUNDED TO THE NEAREST 0.1'

A EXISTING SITE ELEVATION



B EXISTING SITE ELEVATION



C U.S. CELLULAR ALPHA SECTOR ANTENNAS



D U.S. CELLULAR BETA SECTOR ANTENNAS



E U.S. CELLULAR GAMMA SECTOR ANTENNAS

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 608.644.1549 FAX
 www.edgeconsult.com

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 262.307.9888 DIRECT

CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

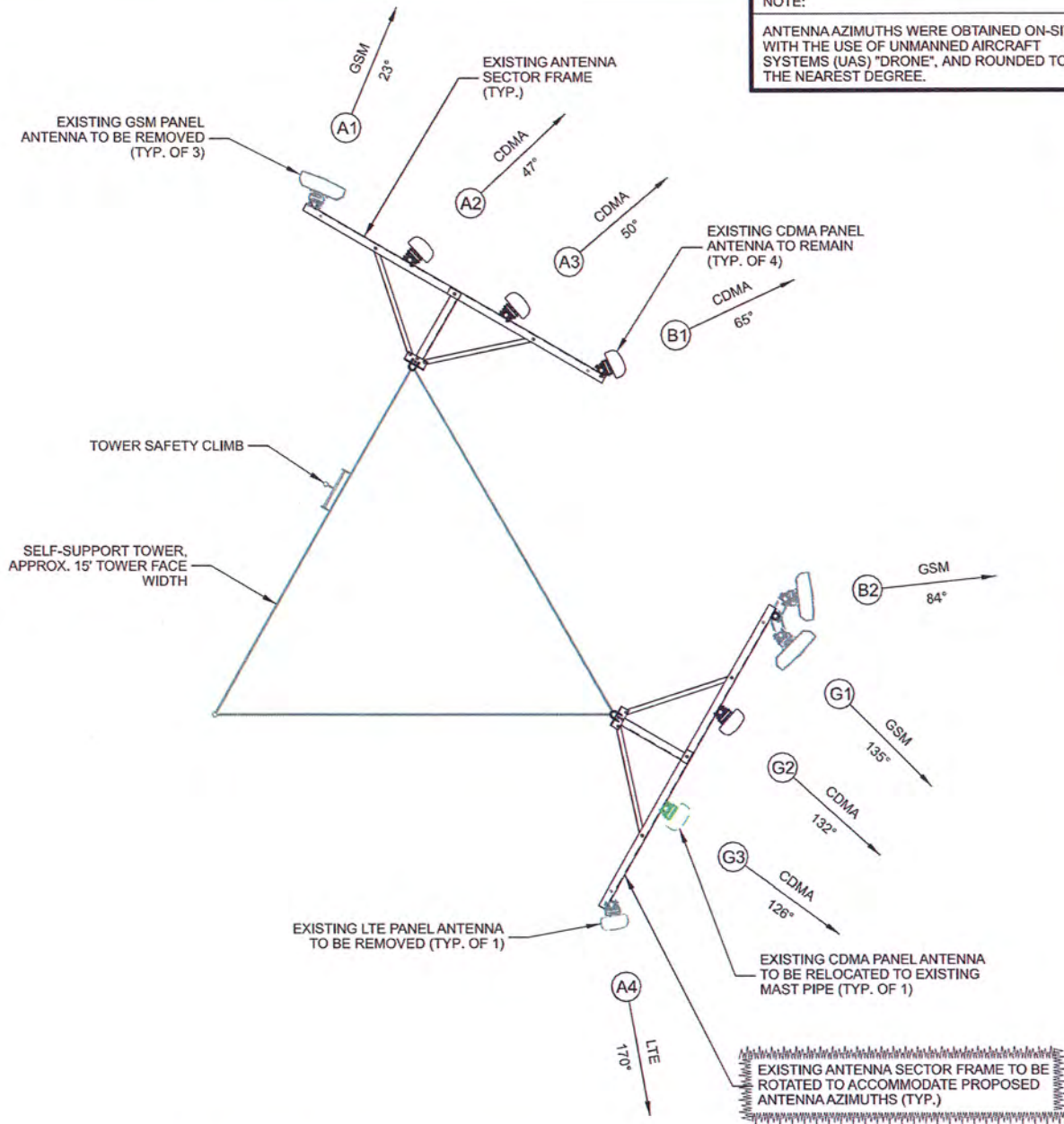
 REGISTERED PROFESSIONAL ENGINEER
 MATTHEW N. CHRISTENSEN
 S5894
 STATE OF CALIFORNIA
 9/30/22

SITE ELEVATION
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY:	MRRM
PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL
SHEET NUMBER:	T-201

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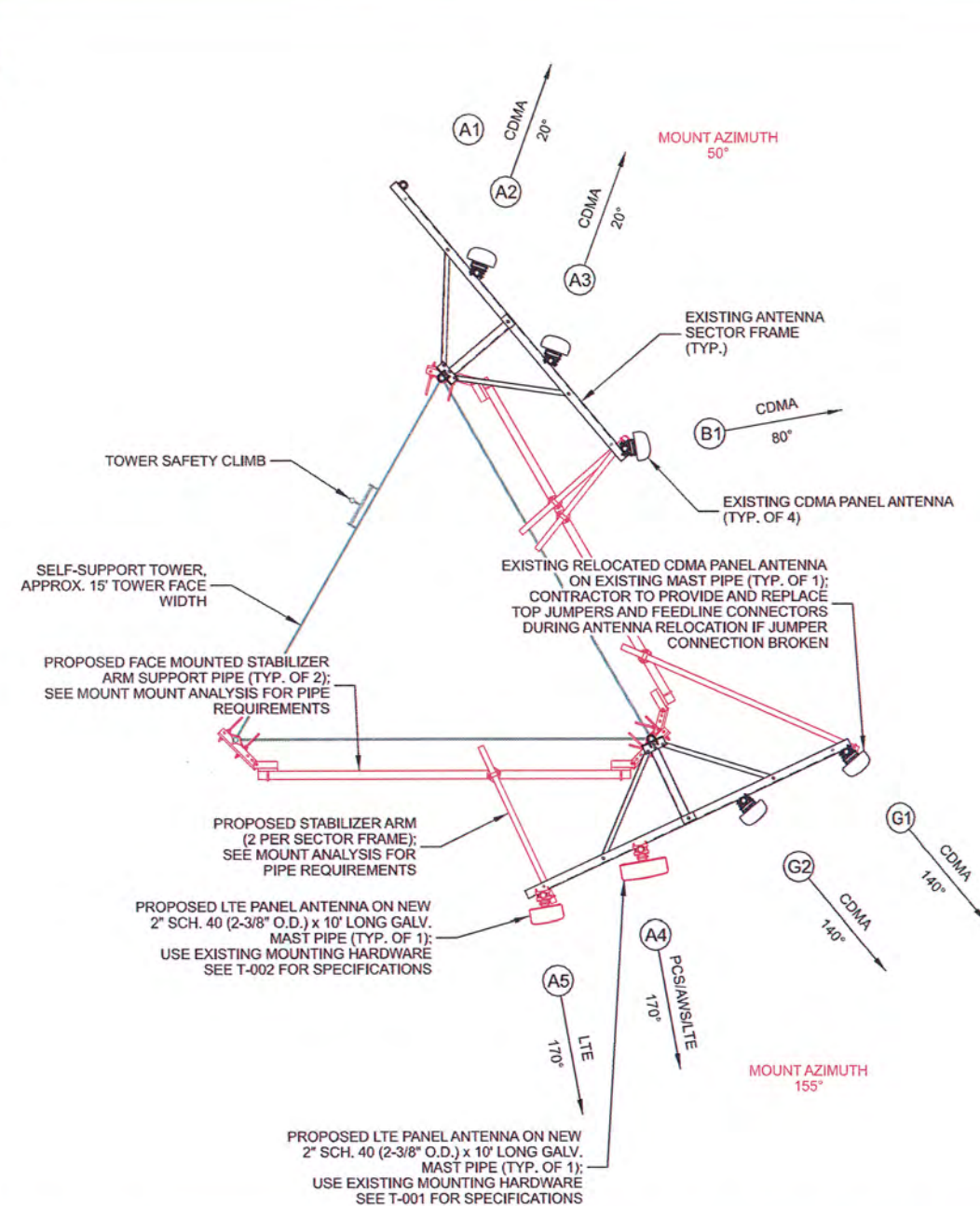


NOTE:
ANTENNA AZIMUTHS WERE OBTAINED ON-SITE WITH THE USE OF UNMANNED AIRCRAFT SYSTEMS (UAS) "DRONE", AND ROUNDED TO THE NEAREST DEGREE.

Position	Technology	Antenna				Cable			
		Model or Size	Qty.	RAD Center	Azimuth	Mech. DT	Type	Qty.	
ALPHA	A1	GSM	Antel BXA-80040/4CF	1	67.0'	23°	1°	7/8" Coax	2
	A2	CDMA	Antel RWA-80015	1	66.0'	47°	0°	7/8" Coax	1
	A3	CDMA	Antel RWA-80015	1	66.0'	50°	0°	7/8" Coax	1
	A4	LTE	KMW AM-X-CW-14-65-00T-RET	1	67.0'	170°	4°	7/8" Coax	2
BETA	B1	CDMA	Antel RWA-80015	1	66.0'	65°	0°	7/8" Coax	1
	B2	GSM	Antel BXA-80040/4CF	1	67.0'	84°	0°	7/8" Coax	2
GAMMA	G1	GSM	Antel BXA-80040/4CF	1	67.0'	135°	4°	7/8" Coax	2
	G2	CDMA	Antel RWA-80015	1	66.0'	132°	0°	7/8" Coax	1
	G3	CDMA	Antel RWA-80015	1	66.0'	126°	0°	7/8" Coax	1
Total:				9					13

NOTE:
1. ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.

A EXISTING ANTENNA LAYOUT
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"



Antenna Position	Technology	Antenna Model	Antenna Quantity	RAD Center	Azimuth	All L.B. Elect. Tilt	All M.B. Elect. Tilt	Mech. Tilt	Surge Protector Qty.	B1/B71 Radio	Radio Qty.	B2/B66 Radio	Radio Qty.	B5 Radio	Radio Qty.	Cable Type	Cable Qty.	
ALPHA	A1	-	-	-	-	-	-	0°	-	-	-	-	-	-	-	-	-	
	A2	CDMA	Antel RWA-80015	1	65.0'	20°	-	0°	-	-	-	-	-	-	-	7/8" Coax	1	
	A3	CDMA	Antel RWA-80015	1	65.0'	20°	-	0°	-	-	-	-	-	-	-	7/8" Coax	1	
	A4	PCS/AWS/LTE	Dengyo OCTB-2LX2HX-BW65	1	65.0'	170°	2'	2'	0°	1	AH/GA	1	AH/FB	1	-	-	1-1/4" Hybrid	1
	A5	LTE	Dengyo QUA8-1LXH-BW65	1	65.0'	170°	2'	-	0°	Shared	-	-	-	-	AH/CA	1	Shared	-
BETA	B1	CDMA	Antel RWA-80015	1	65.0'	80°	-	3°	-	-	-	-	-	-	-	7/8" Coax	1	
GAMMA	G1	CDMA	Antel RWA-80015	1	65.0'	140°	-	5°	-	-	-	-	-	-	-	7/8" Coax	1	
	G2	CDMA	Antel RWA-80015	1	65.0'	140°	-	5°	-	-	-	-	-	-	-	7/8" Coax	1	
Total:			7						1		1		1				7	

Note: All low band and mid band RETs on each antenna need to be set to respective value identified in the table for each sector.

NOTES:
1. ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.
2. CONTRACTOR MAY NEED ADDITIONAL 10'-0" LONG MAST PIPES FOR TEMPORARY RELOCATION OF LTE ANTENNAS.
3. ANTENNA SEPARATION AS FOLLOWS (CENTER OF ANTENNA TO CENTER OF ANTENNA):
LTE TO CDMA: 2'-0" MIN. LTE TO LTE: 4'-0" MIN. CDMA TO CDMA: 4'-0" MIN.

B PROPOSED ANTENNA LAYOUT
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"

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CLIENT:
uscellular
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CHICAGO, IL 60631

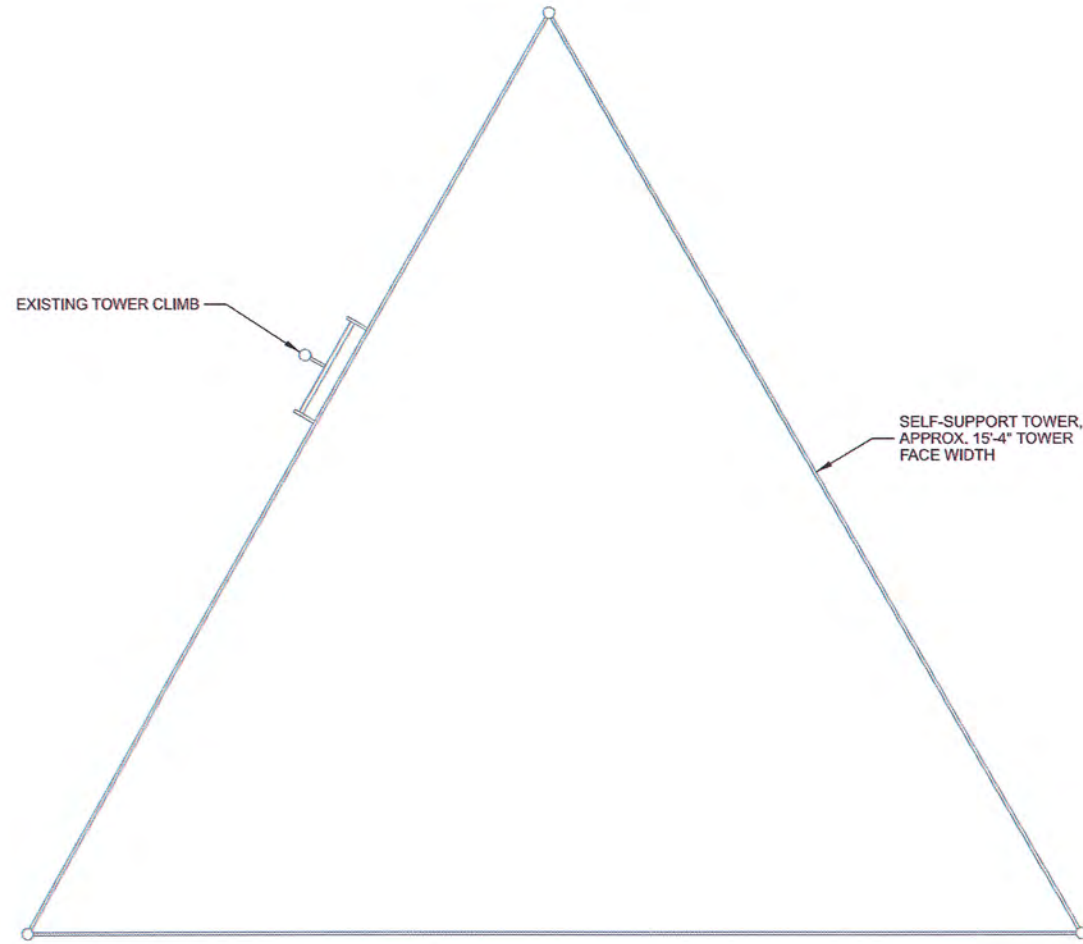
ENGINEER SEAL:

ANTENNA CONFIGURATION
SPANISH MT (568378)
UKIAH, CALIFORNIA

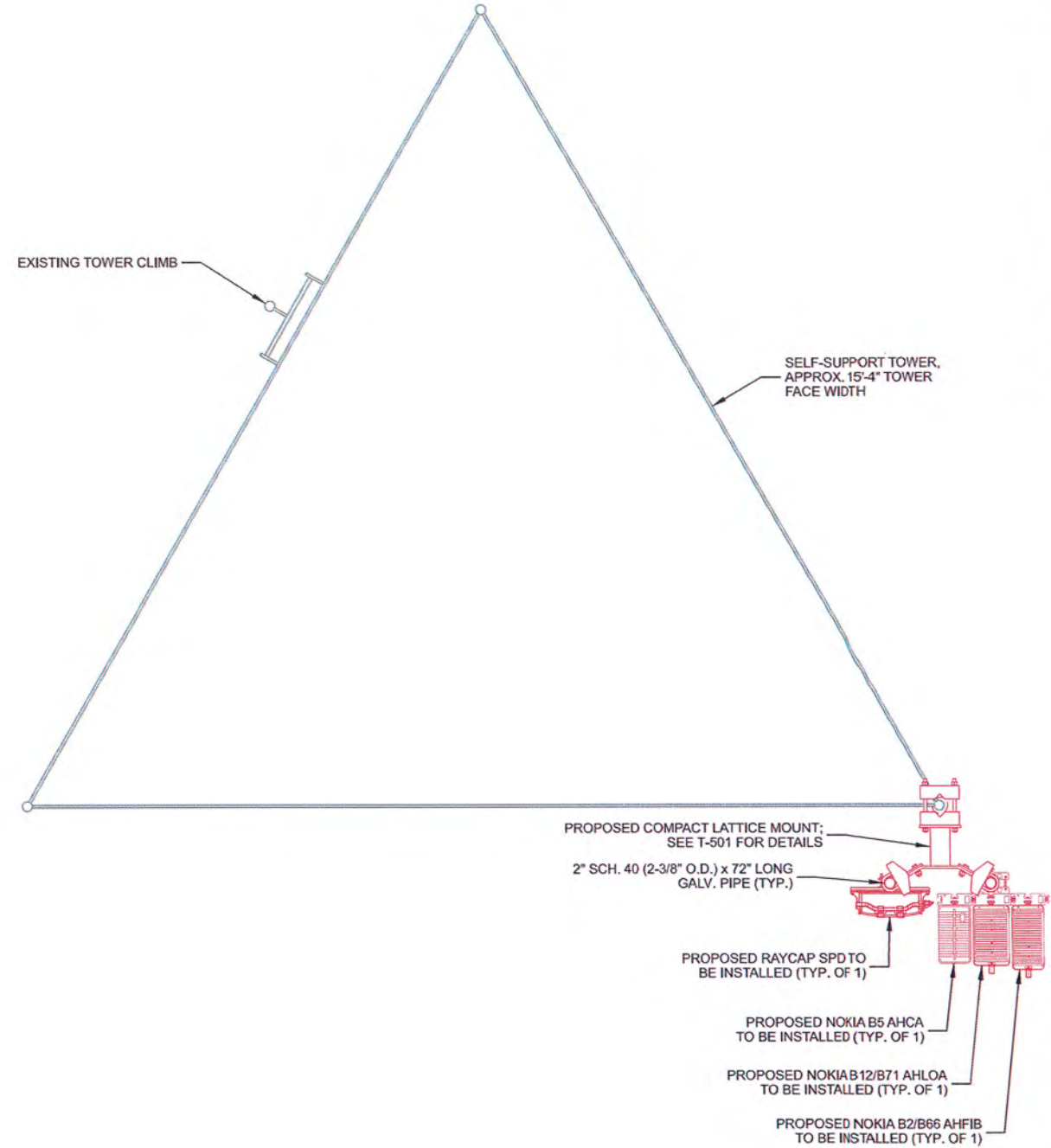
SUBMITTAL:

INT. DATE:	DESCRIPTION:
TAS 08/17/2022	REV. A
TAS 09/30/2022	REV. 0

CHECKED BY:	MRM
PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL
SHEET NUMBER:	T-301



A EXISTING EQUIPMENT LAYOUT



B PROPOSED EQUIPMENT LAYOUT

CONSULTANT:

Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRAIRIE DU SAC, WI 53578
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 608.644.1549 FAX
 www.edgeconsult.com


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 SUITE 450
 MEQUON, WI 53092
 262.307.9688 DIRECT

CLIENT:

uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:


EQUIPMENT CONFIGURATION
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

SUBMITTAL:		
INT.	DATE	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY: MRM

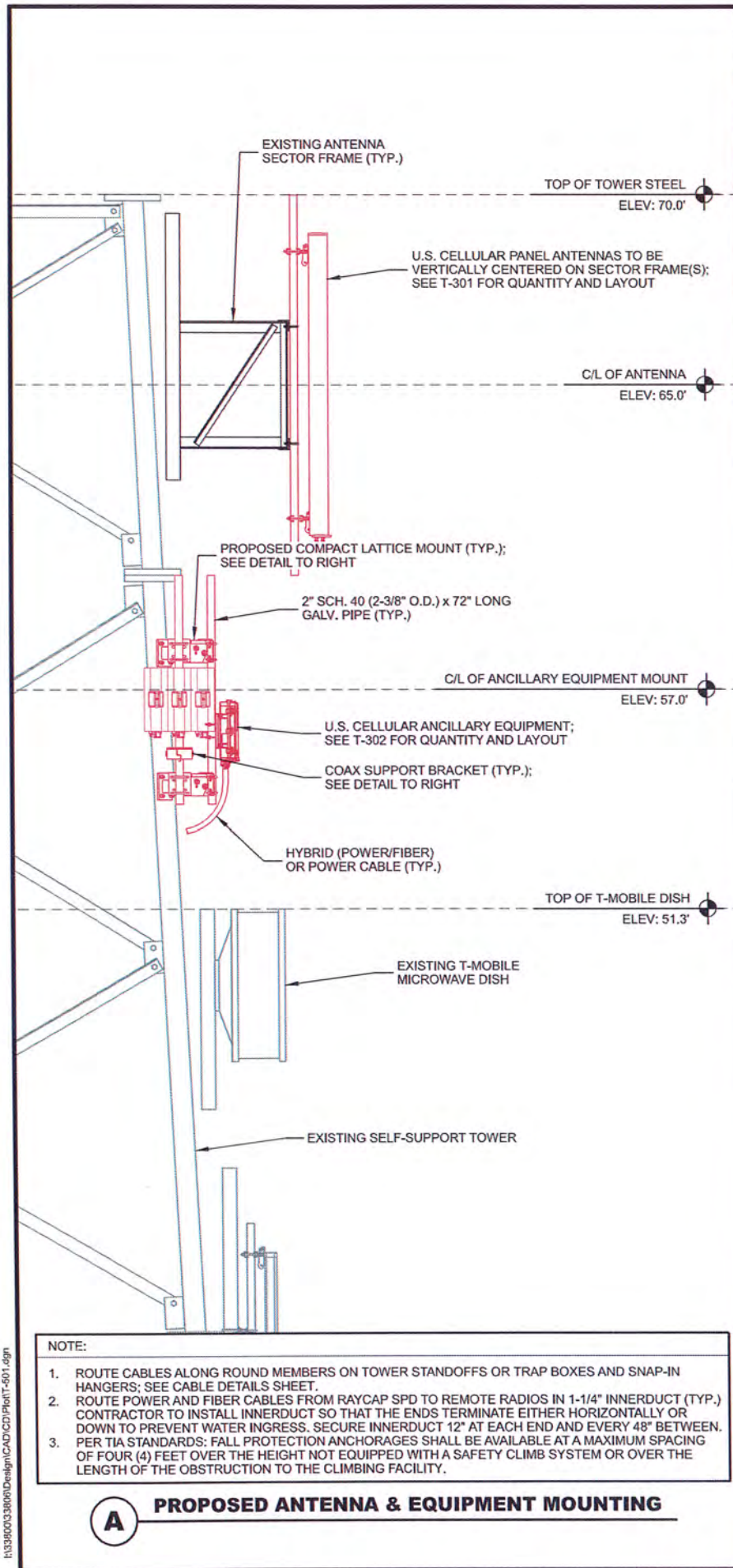
PLOT DATE: 9/30/2022

PROJECT NUMBER: 33806

SET TYPE: FINAL

SHEET NUMBER: **T-302**

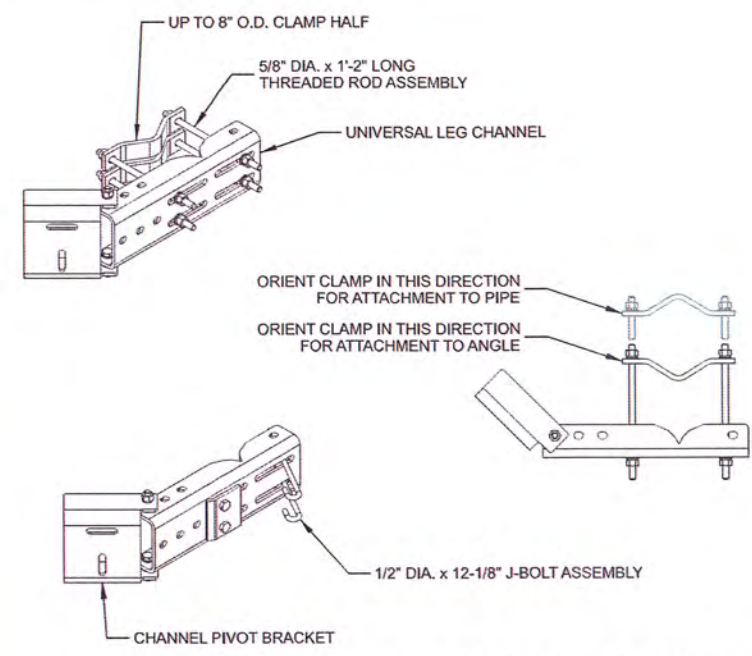
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- NOTE:**
- ROUTE CABLES ALONG ROUND MEMBERS ON TOWER STANDOFFS OR TRAP BOXES AND SNAP-IN HANGERS; SEE CABLE DETAILS SHEET.
 - ROUTE POWER AND FIBER CABLES FROM RAYCAP SPD TO REMOTE RADIOS IN 1-1/4" INNERDUCT (TYP.) CONTRACTOR TO INSTALL INNERDUCT SO THAT THE ENDS TERMINATE EITHER HORIZONTALLY OR DOWN TO PREVENT WATER INGRESS. SECURE INNERDUCT 12" AT EACH END AND EVERY 48" BETWEEN. PER TIA STANDARDS: FALL PROTECTION ANCHORAGES SHALL BE AVAILABLE AT A MAXIMUM SPACING OF FOUR (4) FEET OVER THE HEIGHT NOT EQUIPPED WITH A SAFETY CLIMB SYSTEM OR OVER THE LENGTH OF THE OBSTRUCTION TO THE CLIMBING FACILITY.

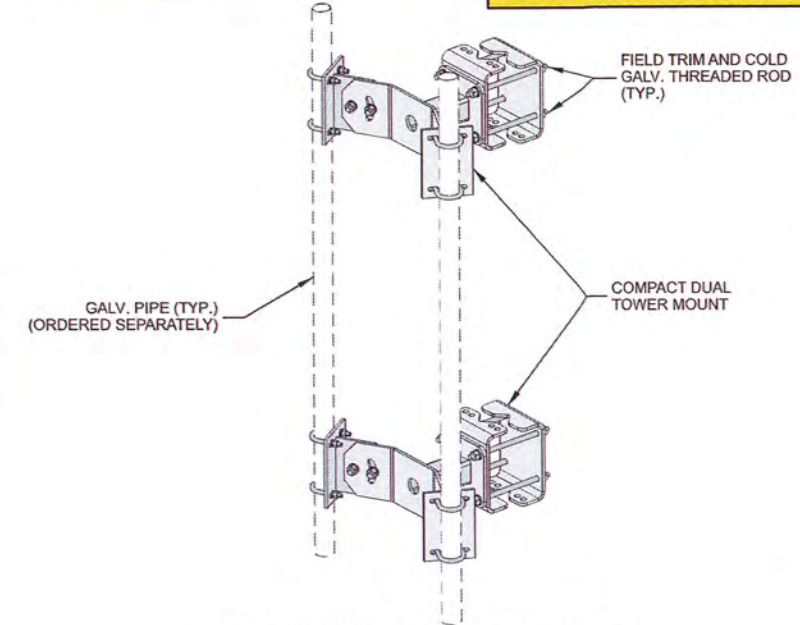
A PROPOSED ANTENNA & EQUIPMENT MOUNTING

MANUFACTURER: SABRE
MODEL: C10-153-424DP (MSSBF-4)
 MICROWAVE DISH STRUT SUPPORT BRACKET,
 FITS ROUND MEMBERS UP TO 8" O.D.,
 60° ANGLES UP TO 8", OR 90° ANGLES UP TO 6".



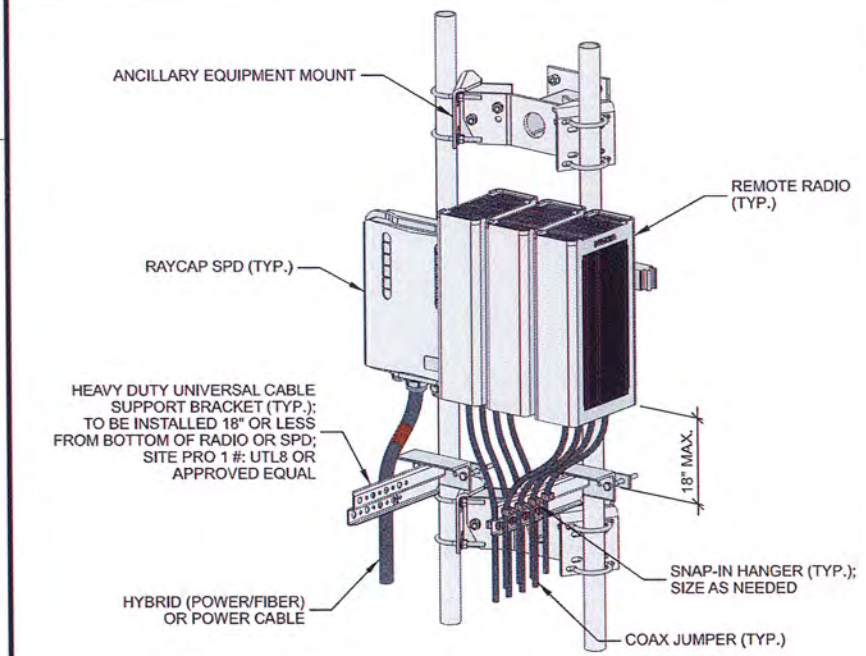
B STABILIZER ARM STRUT SUPPORT BRACKET

MANUFACTURER: SABRE
MODEL: C10-114-260
 FITS 1-1/2" TO 5-1/4" O.D. LEG DIAMETER
 ACCEPTS 2-3/8", 2-7/8", OR 3-1/2" O.D. PIPES
 PURCHASE MAST PIPES SEPARATELY
C10-114-260: SUPPLIED BY U.S. CELLULAR
MAST PIPES: SUPPLIED BY CONTRACTOR



C COMPACT LATTICE MOUNT

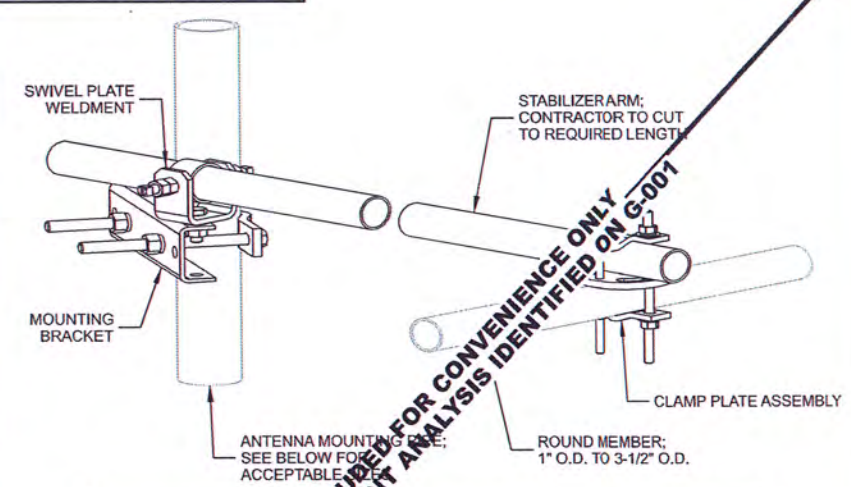
AS NEEDED (LARGE LEG)
MANUFACTURER: SABRE
MODEL: C10-114-265
 FITS 5-1/4" TO 10-3/4" O.D. LEG DIAMETER
 ACCEPTS 2-3/8", 2-7/8", OR 3-1/2" O.D. PIPES
 PURCHASE MAST PIPES SEPARATELY
C10-114-265: SUPPLIED BY CONTRACTOR
MAST PIPES: SUPPLIED BY CONTRACTOR



- NOTE:**
- THIS DETAIL IS A GENERAL SCHEMATIC, SEE EQUIPMENT CONFIGURATION FOR ACTUAL TOWER ORIENTATION AND EQUIPMENT QUANTITIES.
 - RAYCAP SPD AND REMOTE RADIOS MAY NOT BE INSTALLED ON TOWER LEGS THAT HAVE CLIMBER PEGS/SAFETY CLIMBS; CONTRACTOR TO INSTALL (2) MOUNTS ON A SINGLE LEG TO AVOID PEGS/SAFETY CLIMB AS NECESSARY. POWER AND FIBER JUMPERS NOT SHOWN FOR CLARITY.

D NOKIA ANCILLARY EQUIPMENT SCHEMATIC

MANUFACTURER: SABRE
MODEL: VARIES (SEE TABLE BELOW)



SABRE TIEBACKS

PART #	DESCRIPTION	ROUND LEG SIZE	ANGLE LEG SIZE
C10-179-201	1-1/2" x 10'-0"	1-1/2" TO 5-9/16"	L2-1/2" x 2-1/2" TO L4" x 4"
C10-179-001	2-7/8" x 10'-0"	1-1/2" TO 5-9/16"	L2-1/2" x 2-1/2" TO L4" x 4"
C10-179-002	2-7/8" x 13'-3"	1-1/2" TO 5-9/16"	L2-1/2" x 2-1/2" TO L4" x 4"
C10-179-011	2-7/8" x 15'-6"	1-1/2" TO 5-9/16"	L2-1/2" x 2-1/2" TO L4" x 4"
C10-179-111	2-7/8" x 15'-6"	5-3/4" TO 10-3/4"	L2-1/2" x 2-1/2" TO L8" x 8"
C10-179-012	2-7/8" x 20'-0"	1-1/2" TO 5-9/16"	L2-1/2" x 2-1/2" TO L4" x 4"
C10-179-112	2-7/8" x 20'-0"	5-3/4" TO 10-3/4"	L2-1/2" x 2-1/2" TO L8" x 8"
C10-179-131	4-1/2" x 21'-0"	5-3/4" TO 10-3/4"	L2-1/2" x 2-1/2" TO L8" x 8"

E STABILIZER ARM

CONSULTANT:
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CLIENT:
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 CHICAGO, IL 60631

ENGINEER SEAL:
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 55884
 9/30/22

INSTALLATION DETAILS
SPANISH MT (568378)
UKIAH, CALIFORNIA

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
TAS	09/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY: MRM
PLOT DATE: 9/30/2022
PROJECT NUMBER: 33806
SET TYPE: FINAL
SHEET NUMBER: T-501

EUPEN CABLE LENGTH	
EXISTING HYBRID CABLE QUANTITY	0
PROPOSED HYBRID CABLE QUANTITY	1
PROPOSED POWER CABLE QUANTITY	0
LENGTH FROM SHELTER SOURCE TO COAX PORT	20 FT
LENGTH ALONG ICE BRIDGE	15 FT
LENGTH FROM T.O.C. TO TOWER TOP RAYCAP SPD	80 FT
TOTAL LENGTH OF CABLE	115 FT
ROUNDED LENGTH**	150 FT
* 410' MAX = TYPICAL CABLE	
* 550' MAX = LOW INDUCTANCE CABLE	
** CABLE LENGTH TO BE ROUNDED UP TO NEAREST 50' LENGTH	

FIBER JUMPER CABLE INFO			
RAYCAP SPD TO REMOTE RADIO (B12/B71) - 9.8 GB			
	QUANTITY	LENGTH	
ALPHA	2	16.4 FT	5 m
RAYCAP SPD TO REMOTE RADIO (B2/B66) - 9.8 GB			
	QUANTITY	LENGTH	
ALPHA	2	16.4 FT	5 m
RAYCAP SPD TO REMOTE RADIOS (B5) - 9.8 GB			
	QUANTITY	LENGTH	
ALPHA	2	16.4 FT	5 m

ALL SECTORS MUST HAVE THE SAME JUMPER LENGTHS
 * PREFERRED JUMPER LENGTH OF 5m (16.4')
 * MAXIMUM JUMPER LENGTH OF 6m (19.7')

RET CABLE INFO			
REMOTE RADIO TO ANTENNA			
	QUANTITY	LENGTH	
ALPHA	2	32.8 FT	10 m

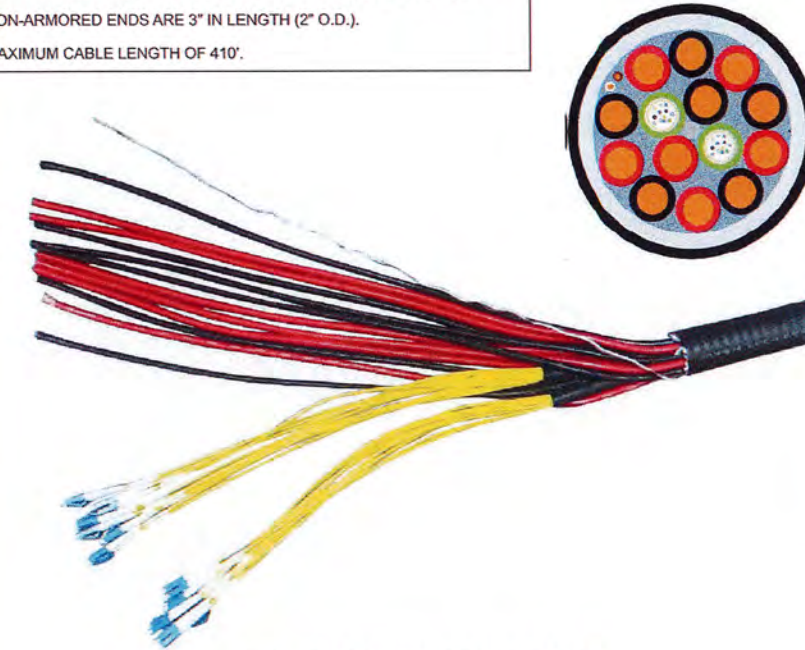
* STANDARD RET CABLE LENGTH OF 10 METERS;
 RF APPROVAL REQ'D FOR ADDITIONAL RET CABLE LENGTH

COAX JUMPER CABLE INFO			
REMOTE RADIO TO ANTENNA (B12/B71)			
	QUANTITY	LENGTH	
ALPHA	4	25 FT *	
REMOTE RADIO TO ANTENNA (B2/B66)			
	QUANTITY	LENGTH	
ALPHA	4	25 FT *	
REMOTE RADIO TO ANTENNA (B5)			
	QUANTITY	LENGTH	
ALPHA	2	25 FT *	

ALL SECTORS MUST HAVE THE SAME JUMPER LENGTHS
 * APPROVED JUMPER LENGTH:
 SEPARATE ANCILLARY MOUNT = 25 FT.
 ON ANTENNA MOUNT = 25 FT.
 * U.S. CELLULAR PRE-ORDERED JUMPER LENGTHS.

MANUFACTURER: EUPEN
 MODEL: EUCAHYBRID 114-12AWG6
 MINIMUM BENDING RADIUS: 360mm (14")
 MAXIMUM PULLING STRENGTH: 150 daN
 MAXIMUM HANGER SPACING: 1.0 m
 APPROX. WEIGHT: 2300 kg/km (1.55 LB/FT)

1-1/4" HYBRID FIBER OPTIC CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.
 SHIPPED WITH 4' PROTECTED JACKET (2.25" O.D.) AT EACH END.
 NON-ARMORED ENDS ARE 3" IN LENGTH (2" O.D.).
 MAXIMUM CABLE LENGTH OF 410'.



B EUPEN HYBRID CABLE

NOTE:
 1. CABLE LENGTHS AND QUANTITIES ARE FOR LTE INSTALLATION ONLY. CONTRACTOR TO DETERMINE AND PROVIDE QUANTITY AND LENGTH OF ANY ADDITIONAL JUMPERS REQUIRED.

A CABLE LENGTHS: W4.*X2010-SS



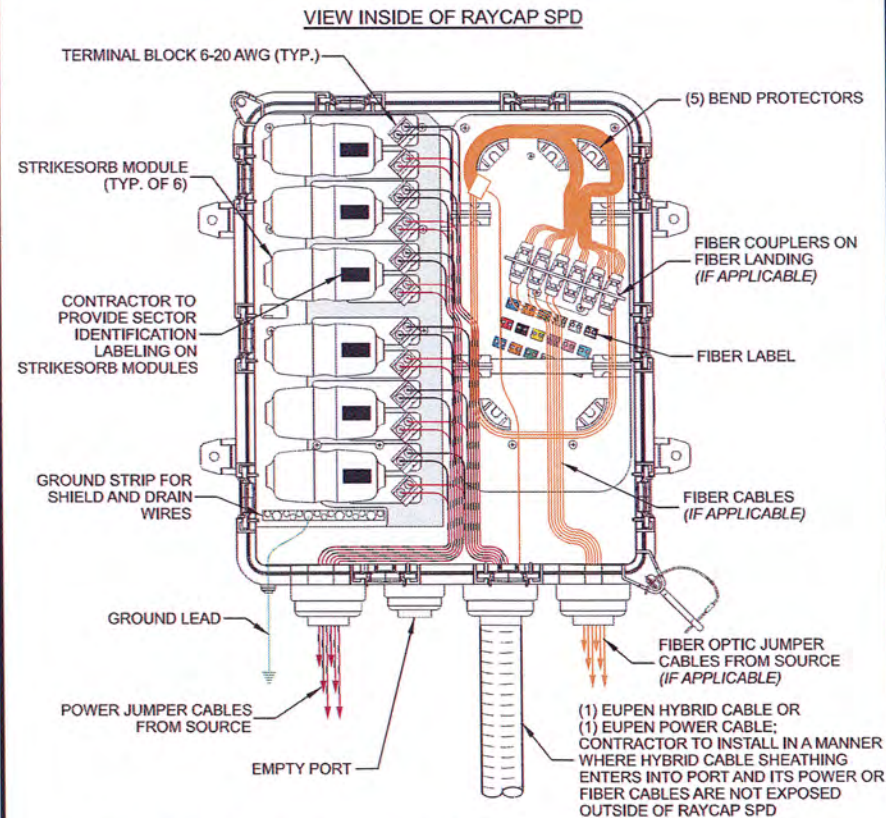
MANUFACTURER: SITE PRO 1
 MODEL: STK2-U
 UNIVERSAL TOWER STANDOFF KIT
 FITS 1-1/2" DIA. TO 3" DIA. ROUND MEMBERS
 MODEL: 78SS-A
 7/8" STACKABLE SNAP-IN HANGER
 MODEL: BCU78X
 UNIVERSAL BARREL CUSHION
 ACCEPTS 0.16" TO 0.55" O.D. CABLES
 7/8" MATING HANGER

7/8" STACKABLE SNAP-IN HANGER,
 SITE PRO 1 PART # 78SS-A OR
 APPROVED EQUIVALENT

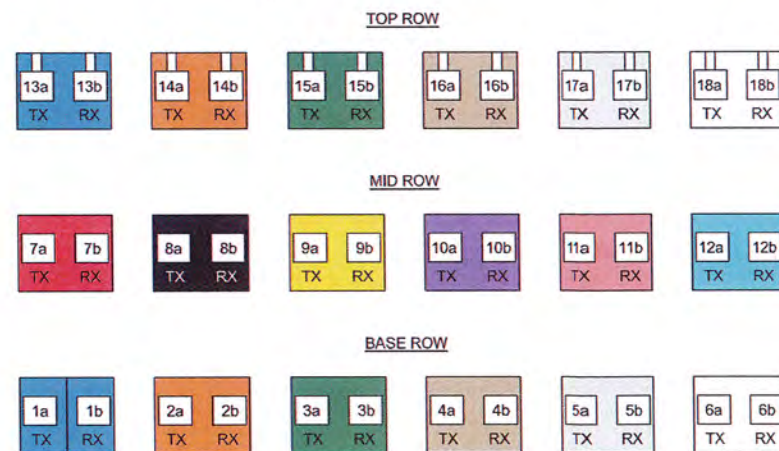
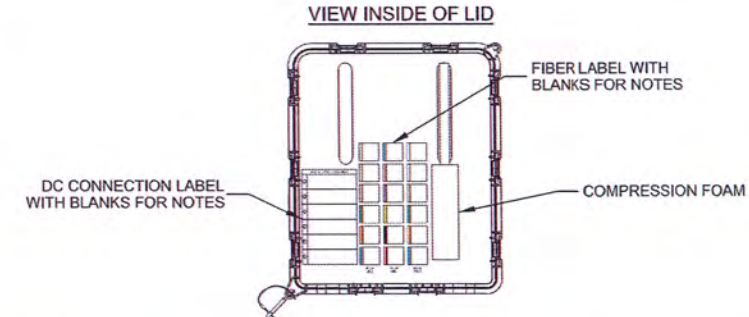


UNIVERSAL BARREL CUSHIONS,
 SITEPRO1 PART # BCU78X;
 ACCEPTS 0.16" TO 0.55" O.D.
 CABLES; MATING HANGER SIZE
 7/8"

C JUMPER ATTACHMENT



D RAYCAP SURGE PROTECTOR DEVICE (SPD) CABLING



E FIBER LABEL

CONSULTANT:
Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRAIRIE DU SAC, WI 53758
 608.644.1449 VOICE
 608.644.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.307.9988 DIRECT

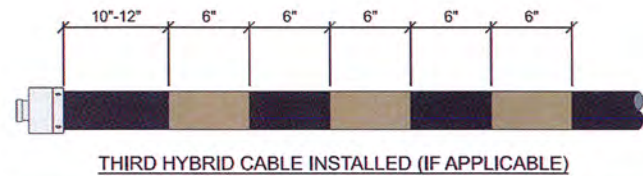
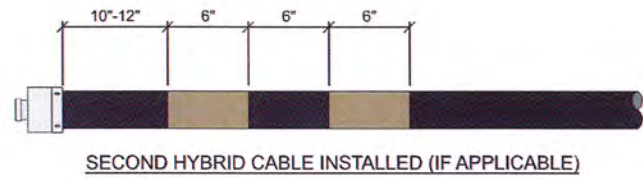
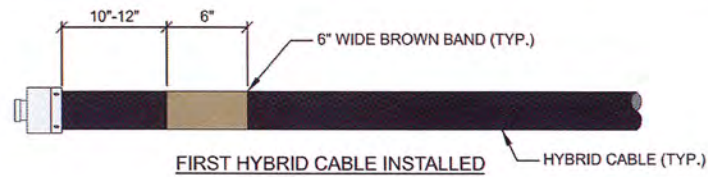
CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

CABLE DETAILS
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

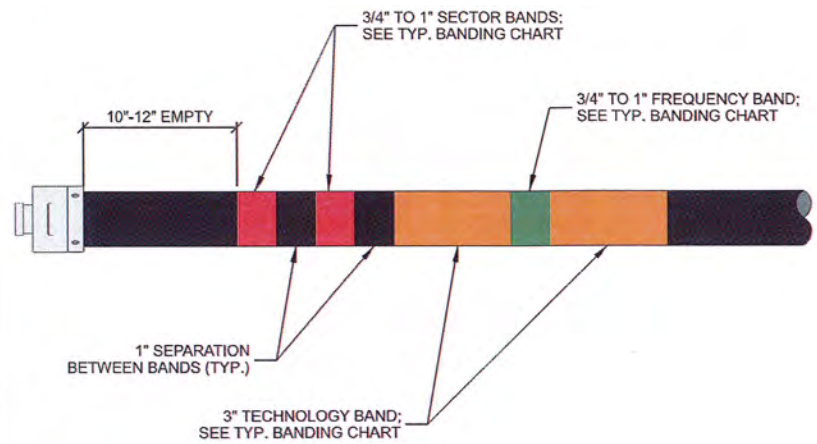
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INT.	DATE	DESCRIPTION
TAS	09/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY	MRM
PLOT DATE	9/30/2022
PROJECT NUMBER	33806
SET TYPE	FINAL
SHEET NUMBER	T-502

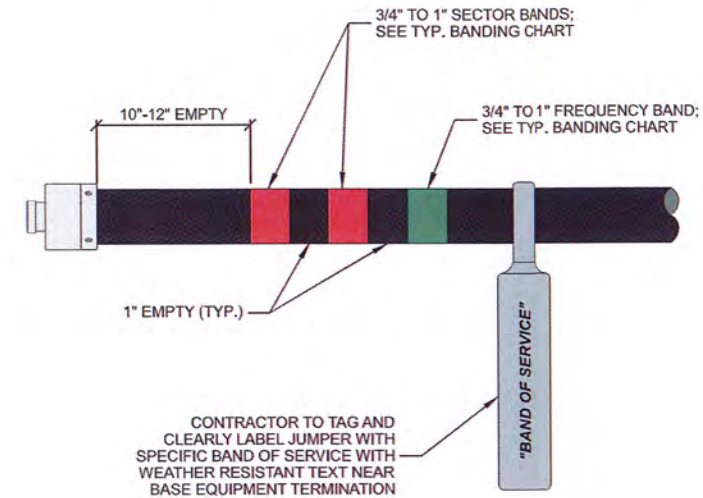


- NOTES:
1. AT THE TOP OF THE TOWER/BUILDING/WATER TOWER AND AT THE ENTRY POINT OF THE GROUND LEVEL JUNCTION BOX, HYBRID CABLES MUST BE BANDED IN ACCORDANCE TO THE ILLUSTRATION ABOVE. REFER TO LATEST EDITION OF U.S. CELLULAR STANDARD: STD72 TO VERIFY CURRENT COLOR CODING
 - 2.

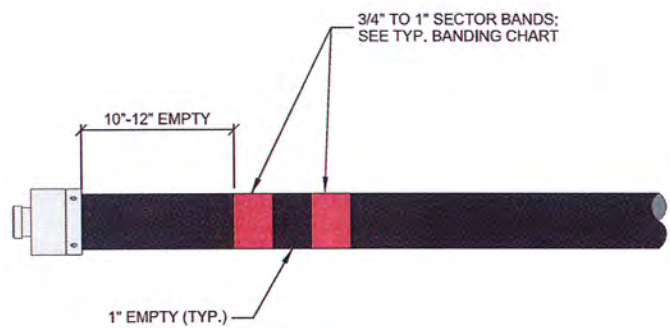
A TYP. HYBRID COLOR CODE



B TYP. COAX JUMPER BANDING



C TYP. POWER & FIBER JUMPER BANDING



RET SECTOR BAND			
SECTOR	ASSIGNED COLOR	LINE 1	LINE 2
ALPHA	RED	(1) RED BAND	(2) RED BANDS
BETA	WHITE	(1) WHITE BAND	(2) WHITE BANDS
GAMMA	BLUE	(1) BLUE BAND	(2) BLUE BANDS

D TYP. RET CABLE BANDING

SECTOR BAND (MOST COMMON CASE: SINGLE TECHNOLOGY WITHIN THE SECTOR)					
SECTOR	ASSIGNED COLOR	LINE 1	LINE 2	LINE 3	LINE 4
ALPHA	RED	(1) RED BAND	(2) RED BANDS	(3) RED BANDS	(4) RED BANDS
BETA	WHITE	(1) WHITE BAND	(2) WHITE BANDS	(3) WHITE BANDS	(4) WHITE BANDS
GAMMA	BLUE	(1) BLUE BAND	(2) BLUE BANDS	(3) BLUE BANDS	(4) BLUE BANDS
DELTA (IF APPLICABLE)	GREEN	(1) GREEN BAND	(2) GREEN BANDS	(3) GREEN BANDS	(4) GREEN BANDS
EPSILON (IF APPLICABLE)	VIOLET	(1) VIOLET BAND	(2) VIOLET BANDS	(3) VIOLET BANDS	(4) VIOLET BANDS
ZETA (IF APPLICABLE)	BROWN	(1) BROWN BAND	(2) BROWN BANDS	(3) BROWN BANDS	(4) BROWN BANDS

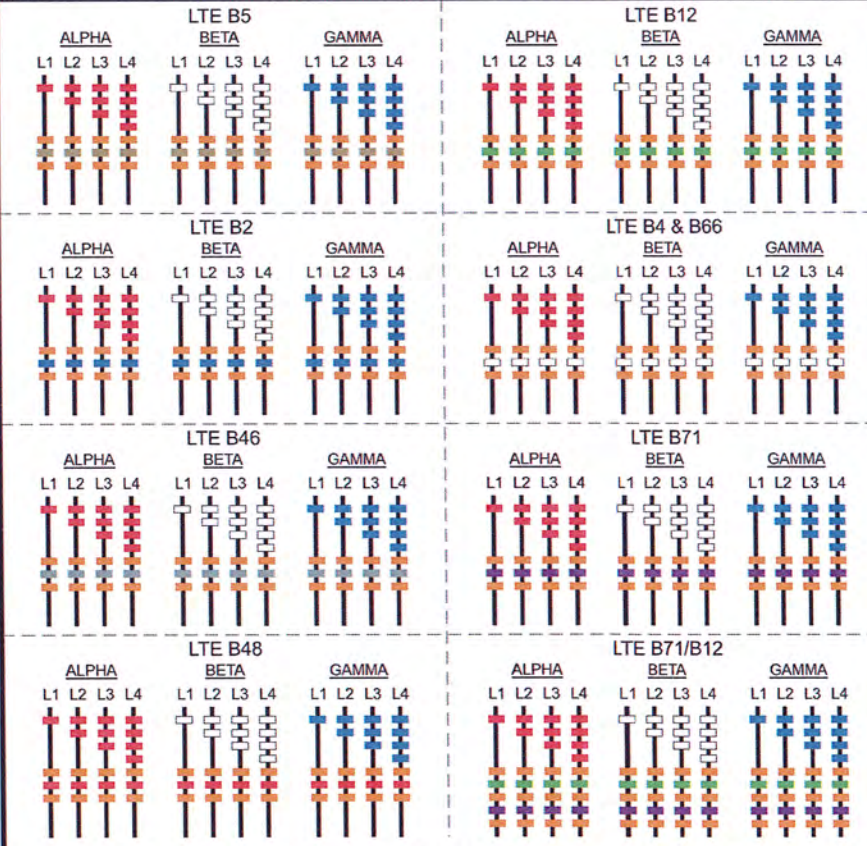
SECTOR BAND (EXCEPTION CASE: ALPHA SECTOR CDMA ON 1 & 4, LTE ON 2 & 3)					
SECTOR	ASSIGNED COLOR	LINE 1 (CDMA)	LINE 2 (LTE)	LINE 3 (LTE)	LINE 4 (CDMA)
ALPHA	RED	(1) RED BAND	(1) RED BAND	(2) RED BANDS	(2) RED BANDS

TECHNOLOGY BAND	
TECHNOLOGY	BANDING
CDMA	YELLOW
GSM	VIOLET
LTE	ORANGE

FREQUENCY BAND		
FREQUENCY	BAND	BANDING
600	B71	VIOLET
700	B12	GREEN
800/850	B5	BROWN
1900	B2	BLUE
2100	B4 & B66	WHITE
3500	B48 - CBRS	RED
5100	B46 - LAA	GREY

- NOTE:
1. REFER TO LATEST EDITION OF U.S. CELLULAR STANDARD: STD72 TO VERIFY CURRENT COLOR CODING

E TYP. BANDING CHART



F TYP. COAX COLOR CODE STANDARD

CONSULTANT:
Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRAIRIE DU SAC, WI 53578
 608.644.1449 VOICEMAIL
 608.644.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.207.9988 DIRECT

CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

CABLE BANDING DETAILS
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
TAS	09/17/2022	REV. A
TAS	09/30/2022	REV. 0

CHECKED BY: MRM

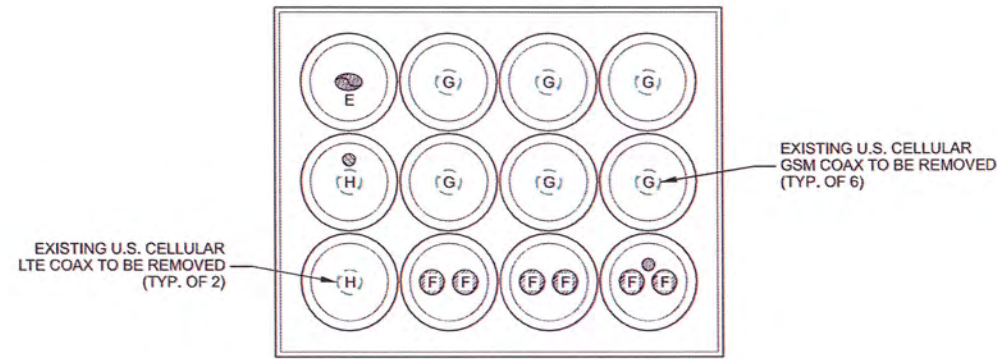
PLOT DATE: 9/30/2022

PROJECT NUMBER: 33806

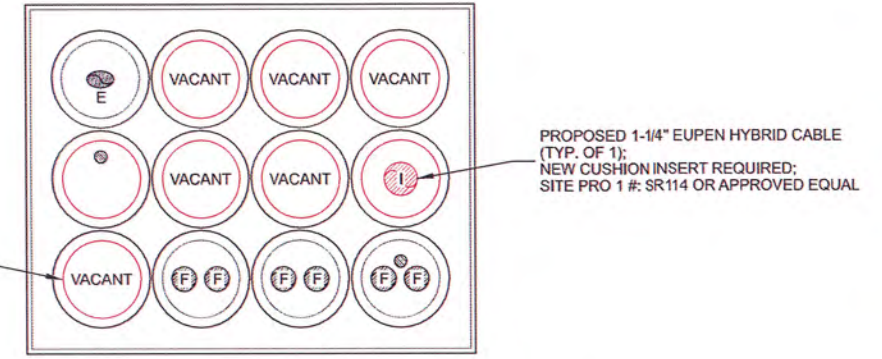
SET TYPE: FINAL

SHEET NUMBER: **T-503**

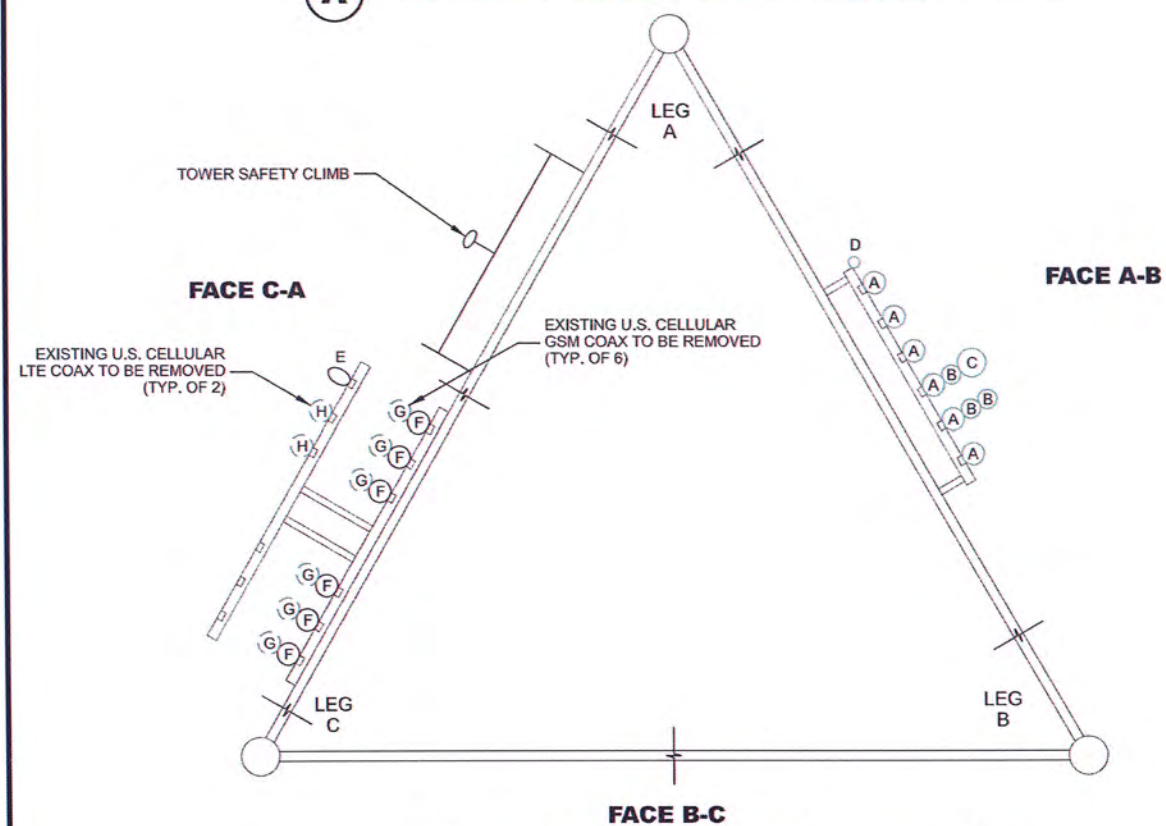
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A EXISTING SHELTER COAX PORT (INTERIOR VIEW)

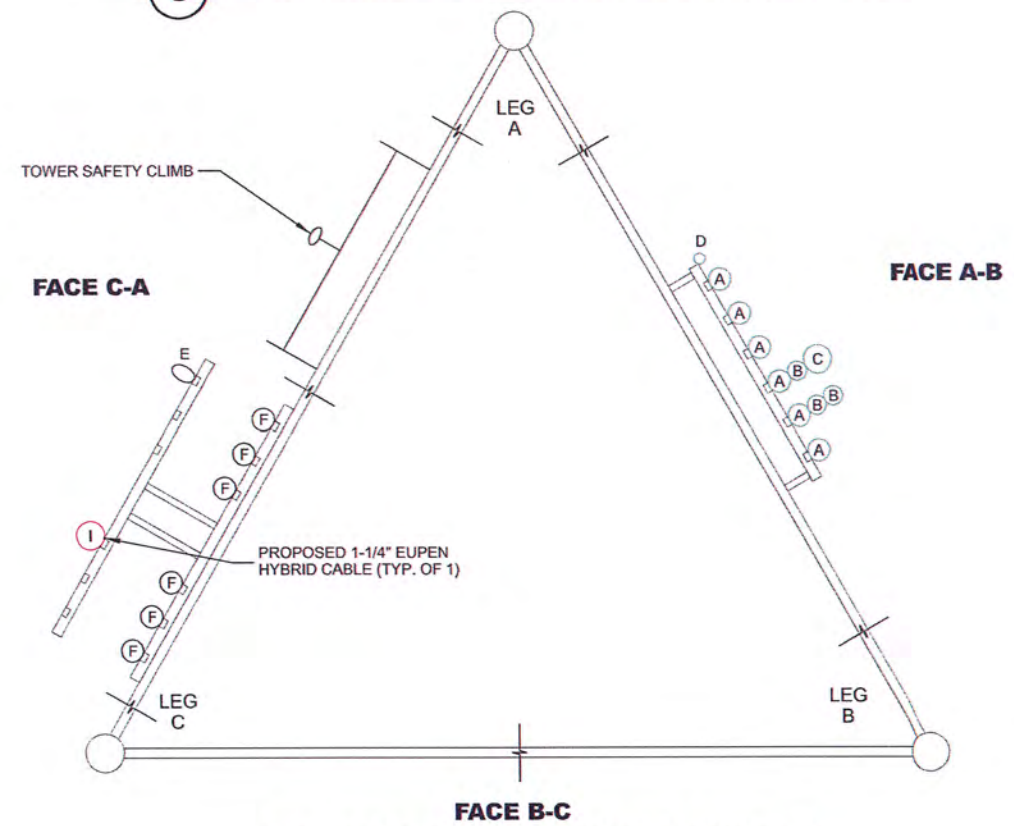


C PROPOSED SHELTER COAX PORT (INTERIOR VIEW)



B EXISTING TOWER CABLE LAYOUT

COAX SYMBOL	(#) SIZE	MOUNTING TYPE	CARRIER / OWNER	TECHNOLOGY	MOUNT HEIGHT
A	(6) 7/8"	SNAP-INS	T-MOBILE	PANEL	40.0'
B	(3) 3/4"	SNAP-INS	T-MOBILE	FIBER	40.0'
C	(1) 1-3/8"	SNAP-INS	T-MOBILE	POWER	40.0'
D	(1) 3/8"	SNAP-INS	T-MOBILE	MICROWAVE	49.2'
E	(1) EW90	SNAP-INS	U.S. CELLULAR	MICROWAVE	50.0'
F	(5) 7/8"	SNAP-INS	U.S. CELLULAR	CDMA	66.0'
G	(6) 7/8" (DEAD)	SNAP-INS	U.S. CELLULAR	GSM	67.0'
H	(2) 7/8"	SNAP-INS	U.S. CELLULAR	LTE	67.0'
-	-	-	-	-	-



D PROPOSED TOWER CABLE LAYOUT

COAX SYMBOL	(#) SIZE	MOUNTING TYPE	CARRIER / OWNER	TECHNOLOGY	MOUNT HEIGHT
A	(6) 7/8"	SNAP-INS	T-MOBILE	PANEL	40.0'
B	(3) 3/4"	SNAP-INS	T-MOBILE	FIBER	40.0'
C	(1) 1-3/8"	SNAP-INS	T-MOBILE	POWER	40.0'
D	(1) 3/8"	SNAP-INS	T-MOBILE	MICROWAVE	49.2'
E	(1) EW90	SNAP-INS	U.S. CELLULAR	MICROWAVE	50.0'
F	(5) 7/8"	SNAP-INS	U.S. CELLULAR	CDMA	66.0'
G	-	-	-	-	-
H	-	-	-	-	-
I	(1) 1-1/4"	SNAP-INS	U.S. CELLULAR	HYBRID	57.0'

CONSULTANT:
Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRAIRIE DU SAC, WI 53578
 608.644.1449 VOICE
 608.644.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.307.9988 DIRECT

CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

CABLE ROUTING
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

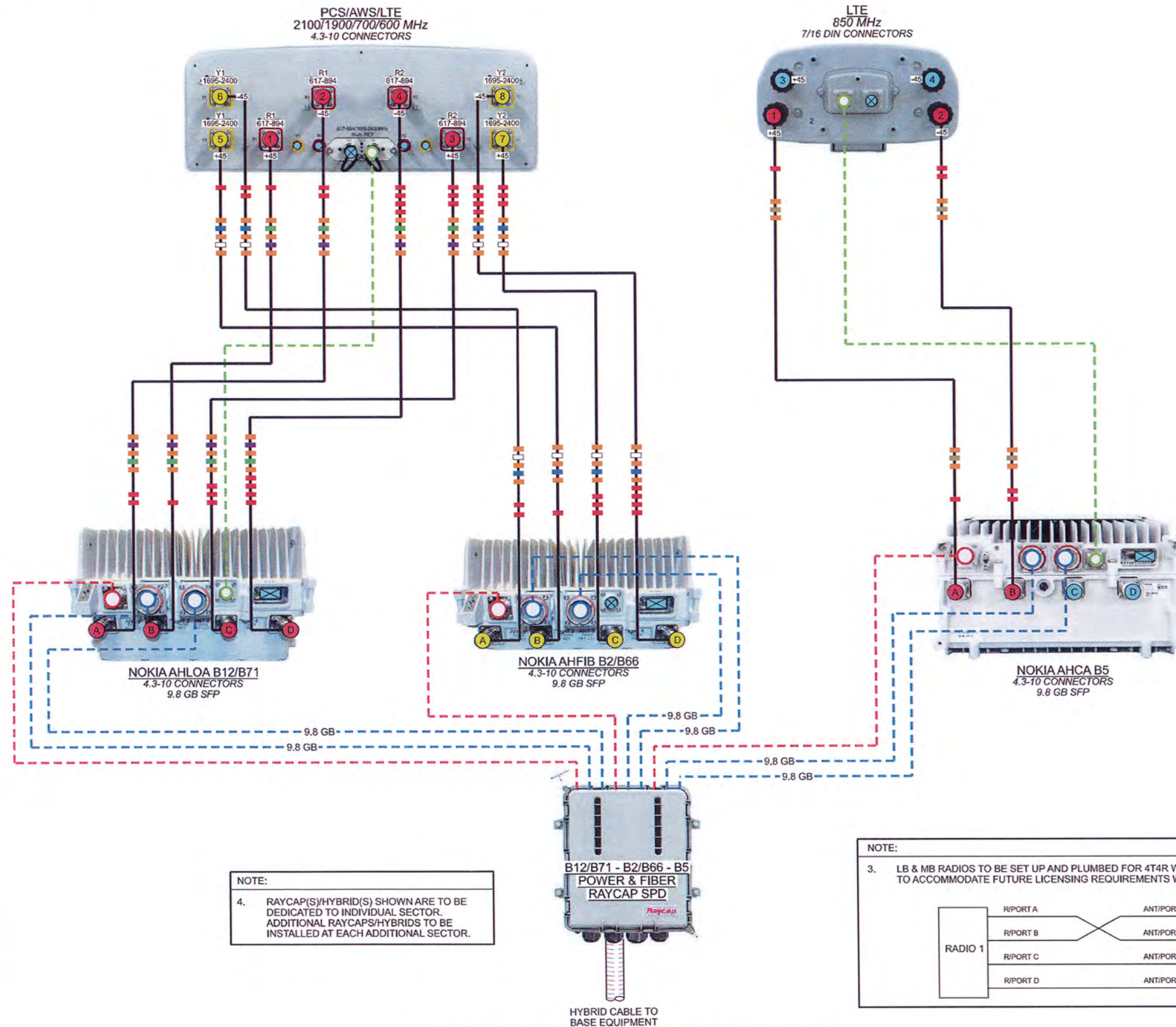
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TAS	09/30/2022	REV. 0

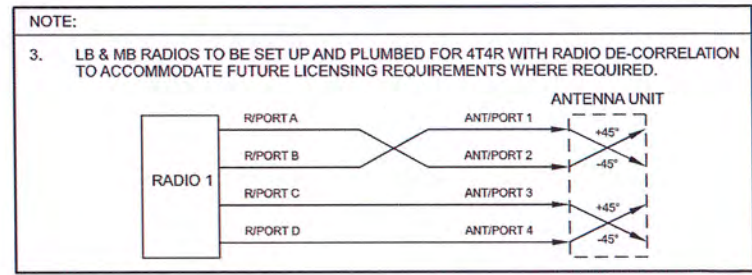
CHECKED BY:	MRM
PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL
SHEET NUMBER:	V-501



NSN// B12/B71 2T2R / B2/B66 2T2R / B5 2T2R
PER SECTOR CONFIGURATION



NOTE:
 4. RAYCAP(S)/HYBRID(S) SHOWN ARE TO BE DEDICATED TO INDIVIDUAL SECTOR. ADDITIONAL RAYCAPS/HYBRIDS TO BE INSTALLED AT EACH ADDITIONAL SECTOR.



CABLE LEGEND

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

PLUMBING DIAGRAM: W4.DX2010-SS
2T2R DESIGN: Yes-1

CONTAINS U.S. CELLULAR® CONFIDENTIAL INFORMATION. NOT FOR EXTERNAL USE OR DISCLOSURE WITHOUT PROPER AUTHORIZATION.

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

CONSULTANT:
Edge
 Consulting Engineers, Inc.
 624 WATER STREET
 PRAIRIE DU SAC, WI 53578
 608.644.1449 VOICE
 608.644.1549 FAX
 www.edgeconsult.com

CORE engineering
 12308 CORPORATE PKWY.
 SUITE 450
 MEQUON, WI 53092
 262.307.9988 DIRECT

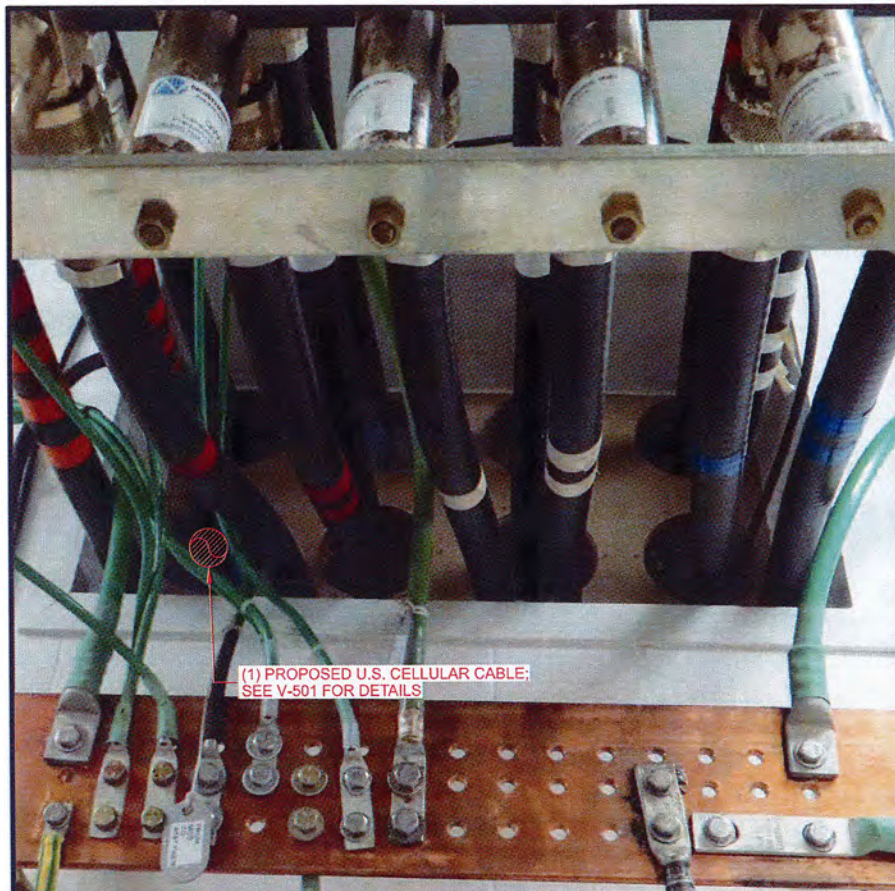
CLIENT:
uscellular
 U.S. CELLULAR
 8410 W. BRYN MAWR AVE.
 SUITE 700
 CHICAGO, IL 60631

ENGINEER SEAL:

PLUMBING DIAGRAM
 SPANISH MT (568378)
 UKIAH, CALIFORNIA

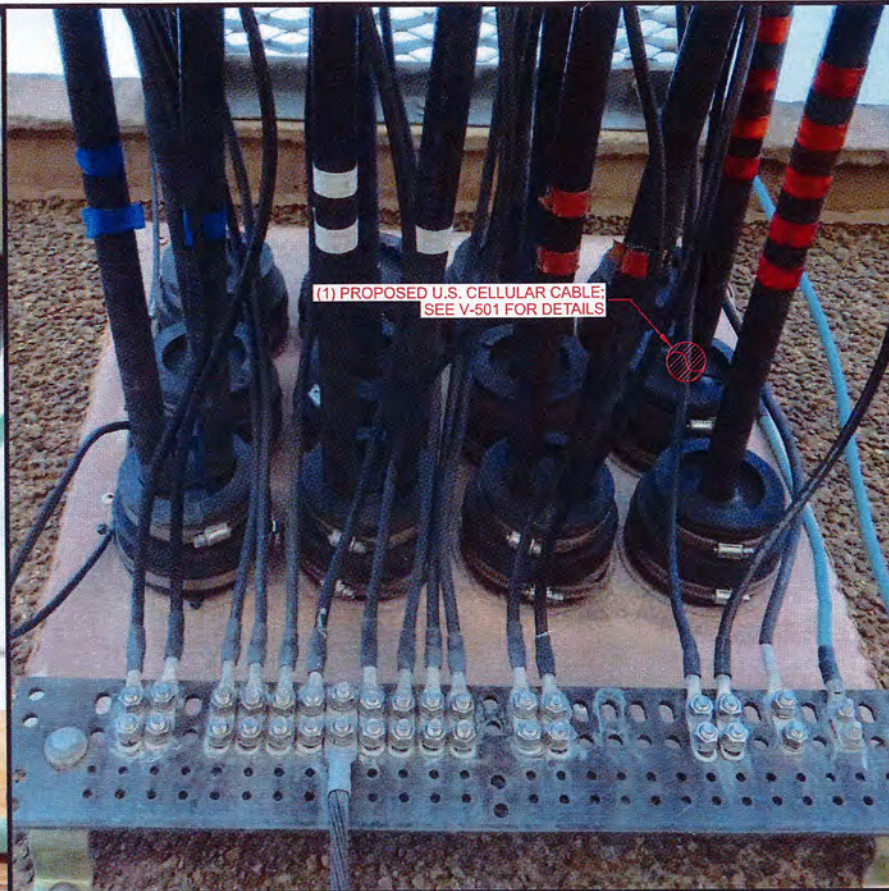
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TAS	09/30/2022 REV. 0

CHECKED BY	MRM
PLOT DATE	9/30/2022
PROJECT NUMBER	33806
SET TYPE	FINAL
SHEET NUMBER	P-501



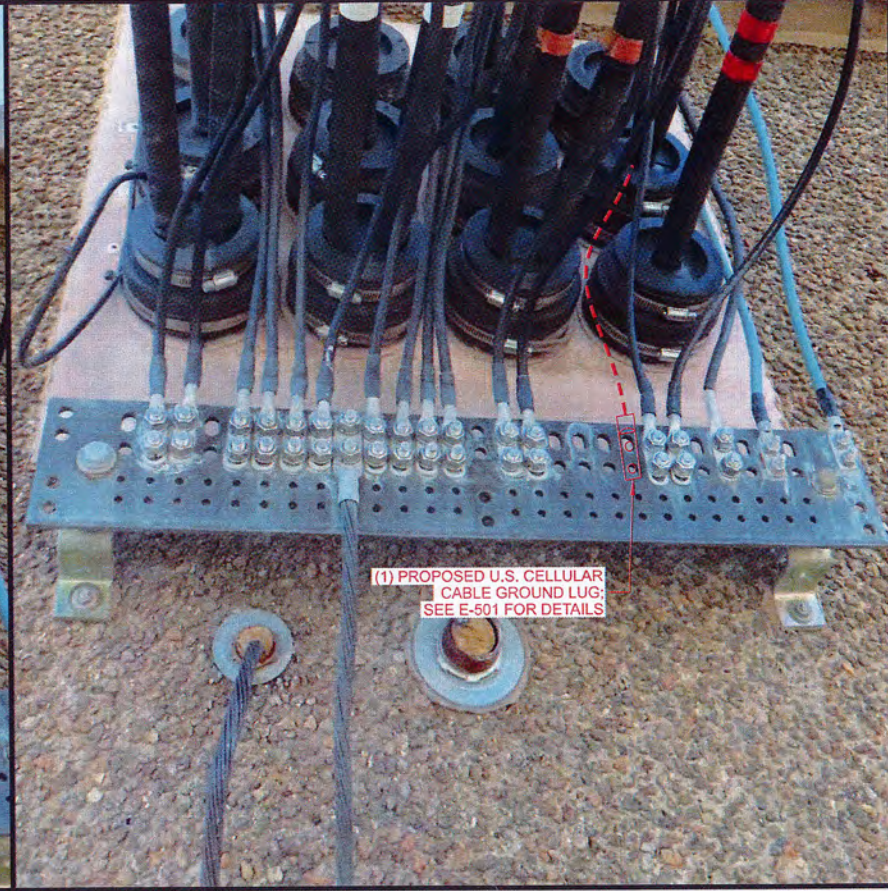
(1) PROPOSED U.S. CELLULAR CABLE:
SEE V-501 FOR DETAILS

A SHELTER COAX PORT (SHELTER INTERIOR)



(1) PROPOSED U.S. CELLULAR CABLE:
SEE V-501 FOR DETAILS

B SHELTER COAX PORT (SHELTER EXTERIOR)



(1) PROPOSED U.S. CELLULAR
CABLE GROUND LUG:
SEE E-501 FOR DETAILS

C EXTERIOR SHELTER GROUND BAR



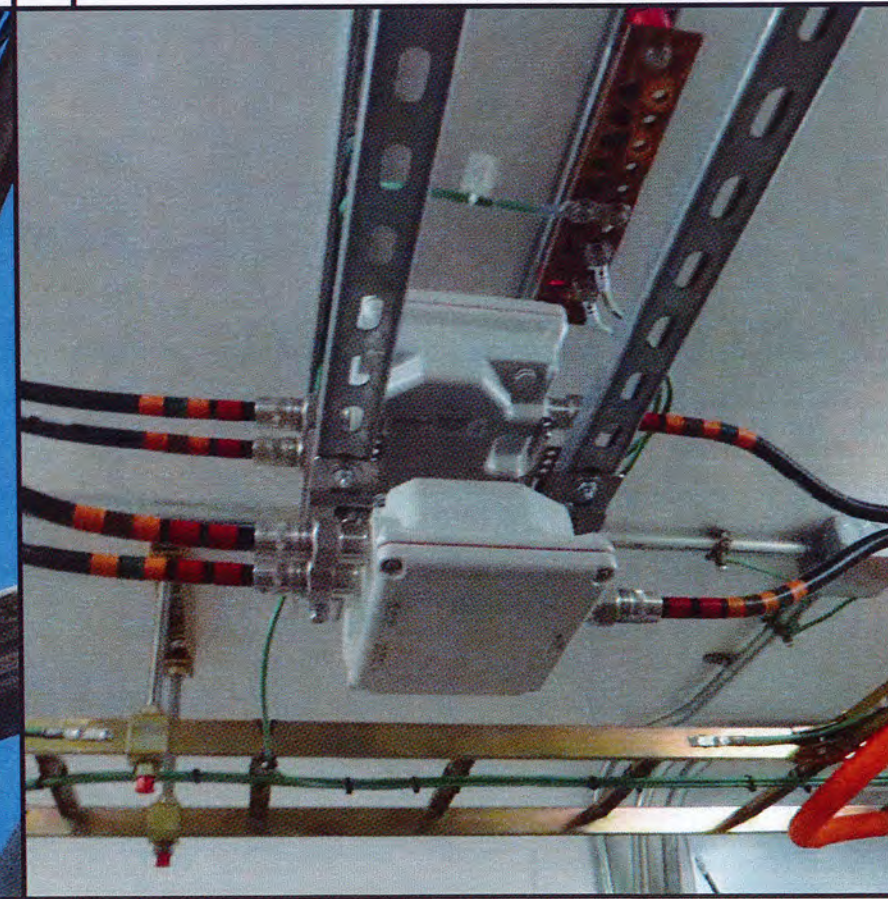
(1) PROPOSED U.S. CELLULAR CABLE:
SEE V-501 FOR DETAILS

D ICE BRIDGE HANGER



(1) PROPOSED U.S. CELLULAR CABLE:
SEE V-501 FOR DETAILS

E CABLE ROUTING UP TOWER FACE



F DIPLEXERS TO BE REMOVED

CONSULTANT:
Edge
Consulting Engineers, Inc.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.844.1449 VOICE
608.844.1549 FAX
www.edgeconsult.com

CORE engineering
12308 CORPORATE PKWY.
SUITE 450
MEQUON, WI 53092
262.307.9698 DIRECT

CLIENT:
uscellular
U.S. CELLULAR
8410 W. BRYN MAWR AVE.
SUITE 700
CHICAGO, IL 60631

ENGINEER SEAL:

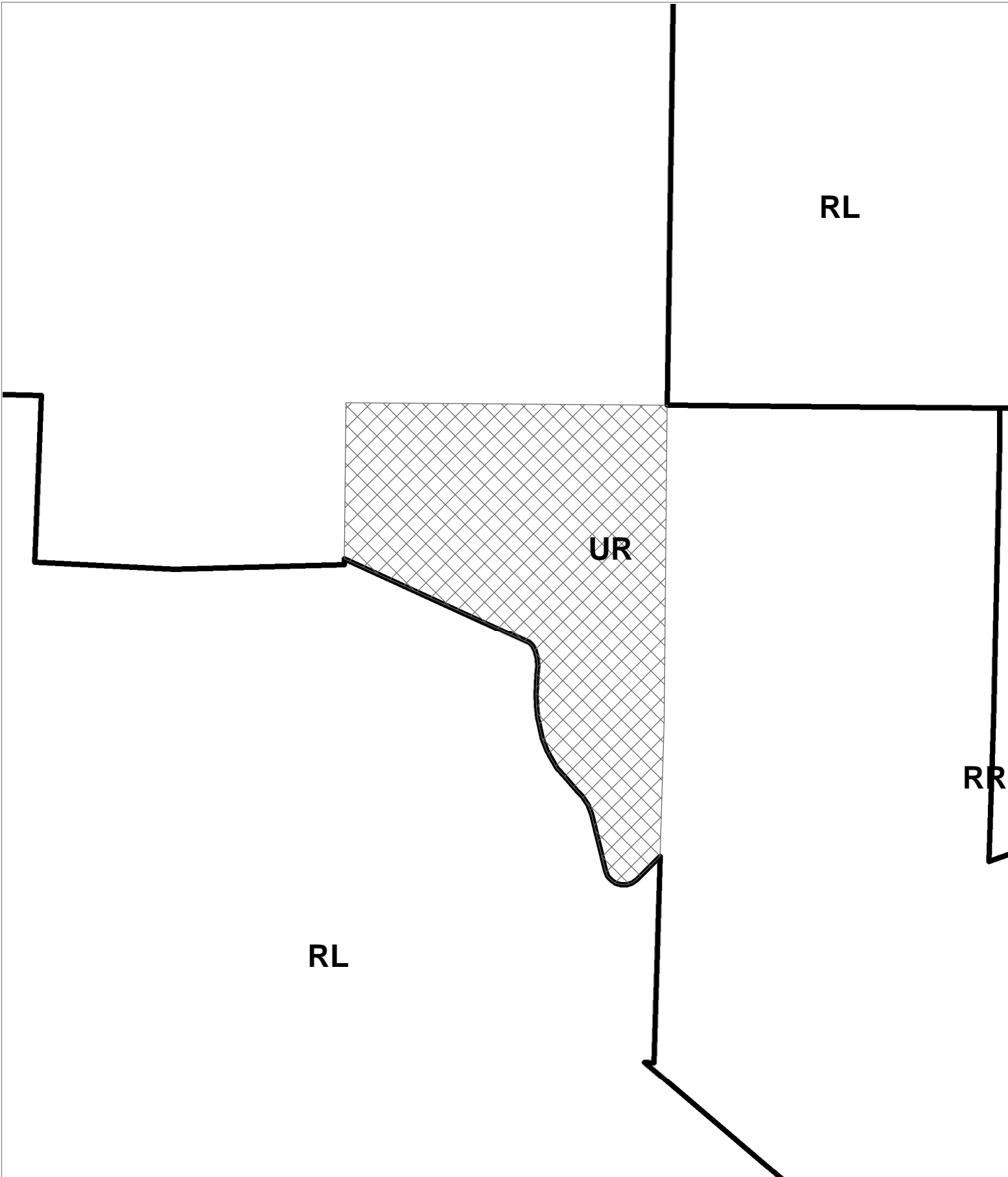
MATTHEW N. CHRISTMAN
REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL
STATE OF ILLINOIS
S5884
9/30/22

SITE PHOTOS
SPANISH MT (568378)
UKIAH, CALIFORNIA

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
TAS	08/17/2022	REV. A
TAS	09/30/2022	REV. 0

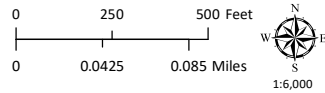
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PLOT DATE:	9/30/2022
PROJECT NUMBER:	33806
SET TYPE:	FINAL
SHEET NUMBER:	R-901

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CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

 Zoning Districts



MENDOCINO COUNTY PLANNING DEPARTMENT - 11/29/2022

ZONING

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RMR 40

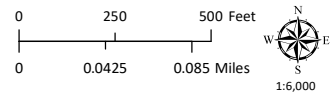
RL 160

RMR 20

RL 160

RMR 40

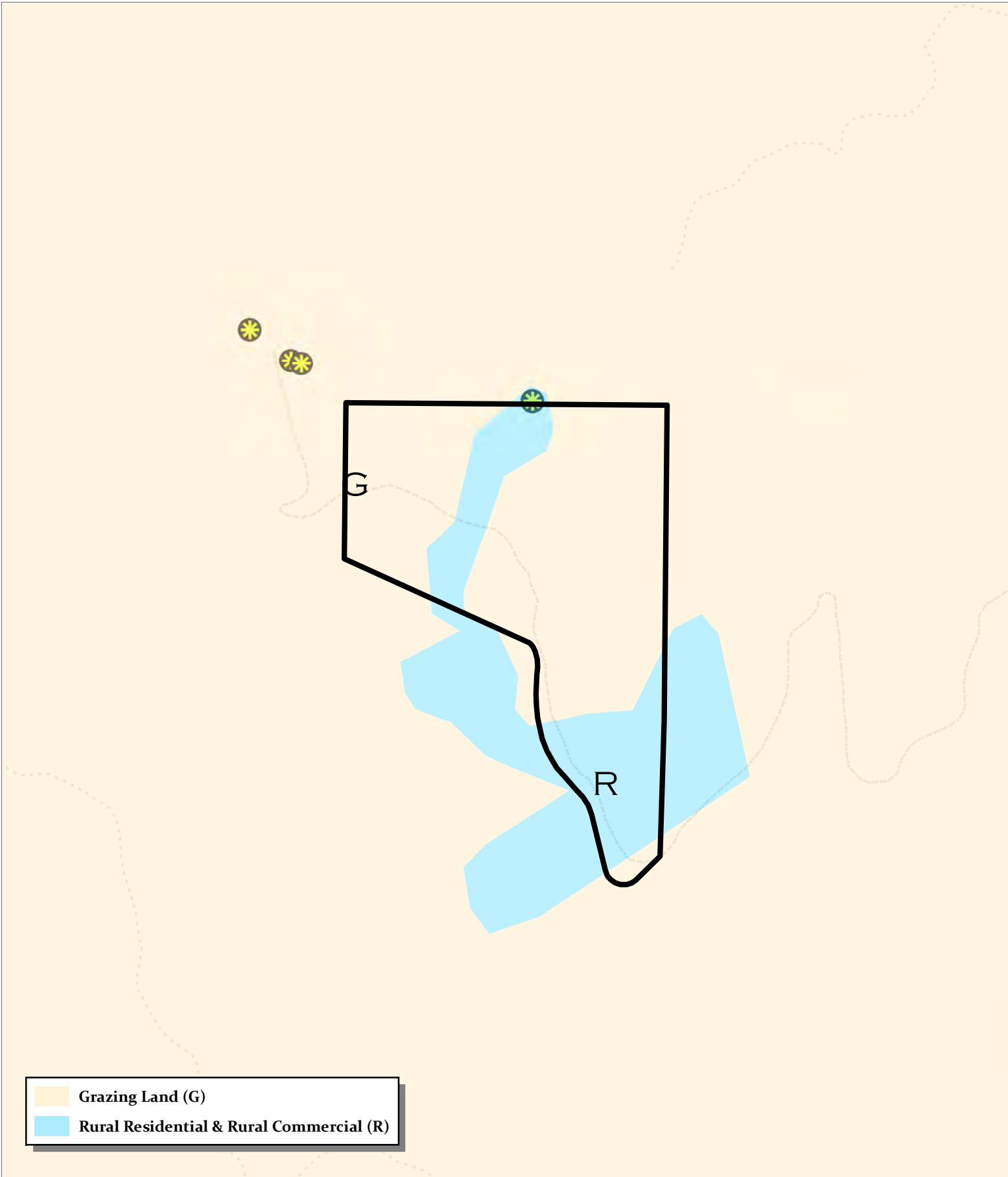
 General Plan Classes



CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

GENERAL PLAN

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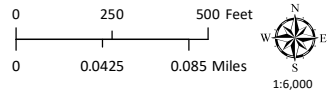


MENDOCINO COUNTY PLANNING DEPARTMENT - 11/29/2023

- Grazing Land (G)
- Rural Residential & Rural Commercial (R)

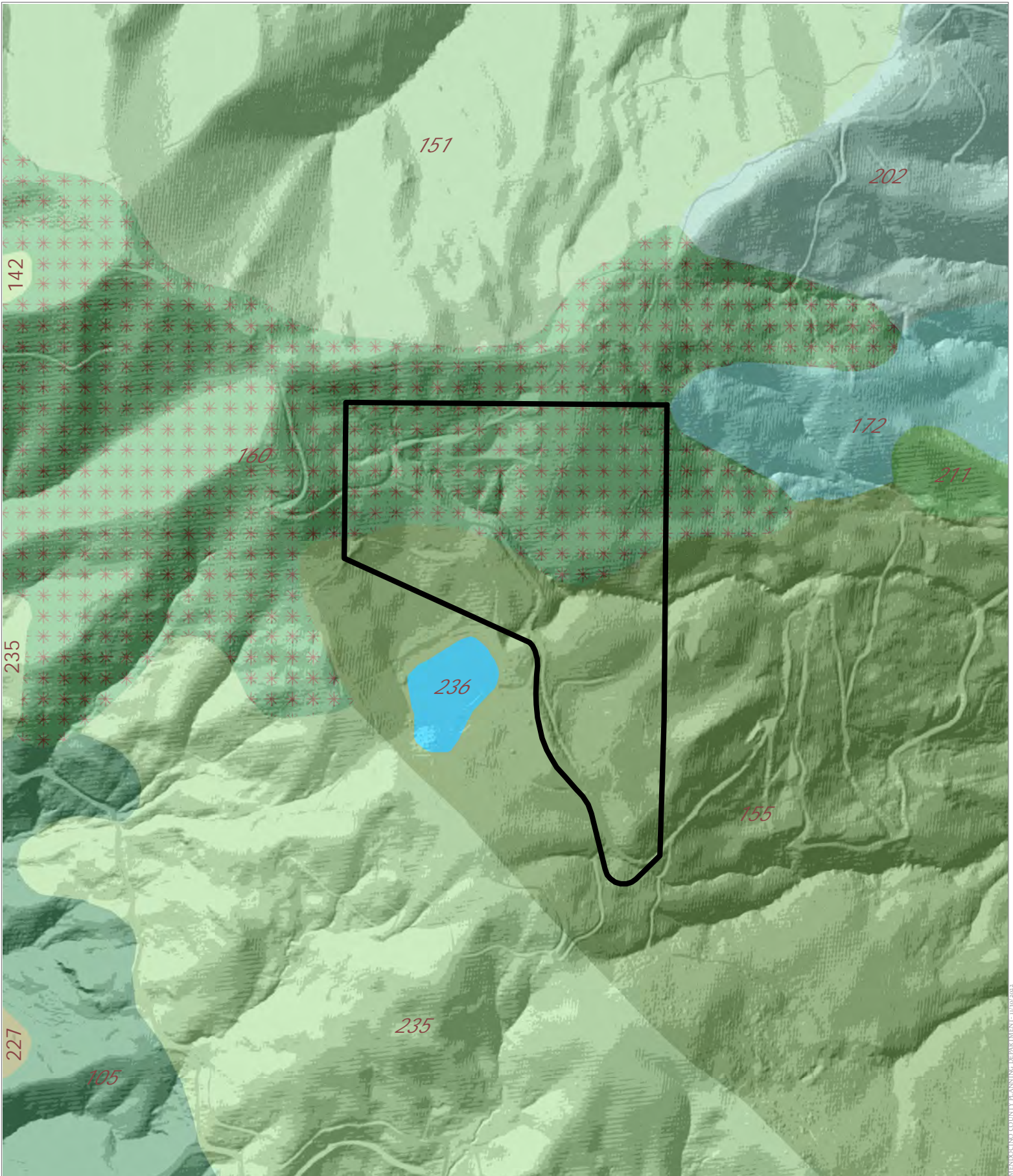
CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

Approved Wireless Sites



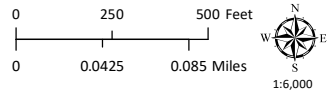
IMPORTANT FARMLAND

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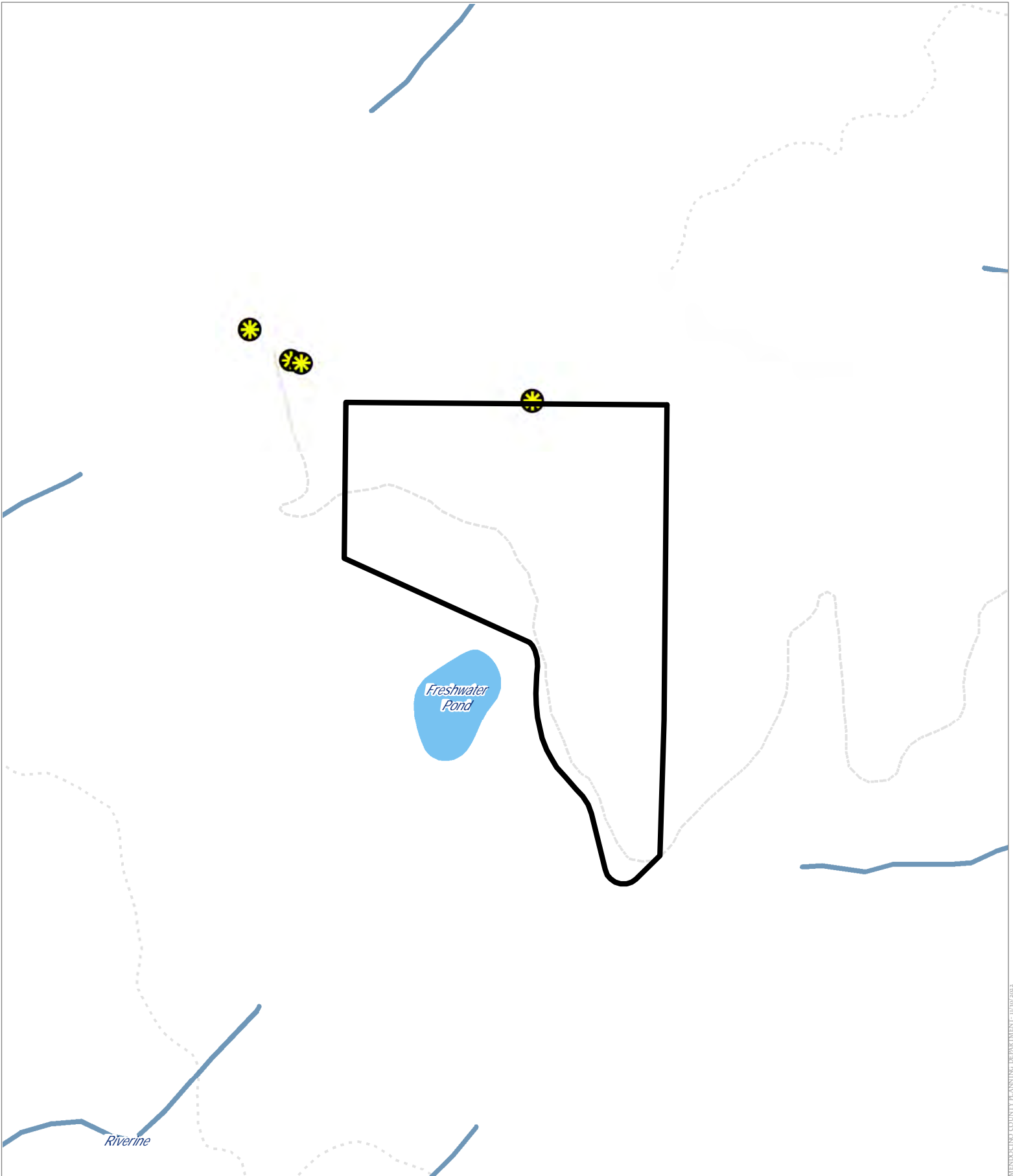
CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

← * * * Eastern Rock Inclusions




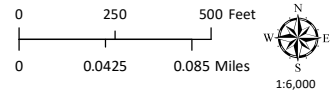
EASTERN SOIL CLASSIFICATIONS

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CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

 Approved Wireless Sites



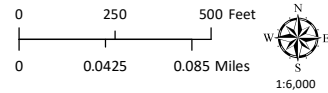
WETLANDS

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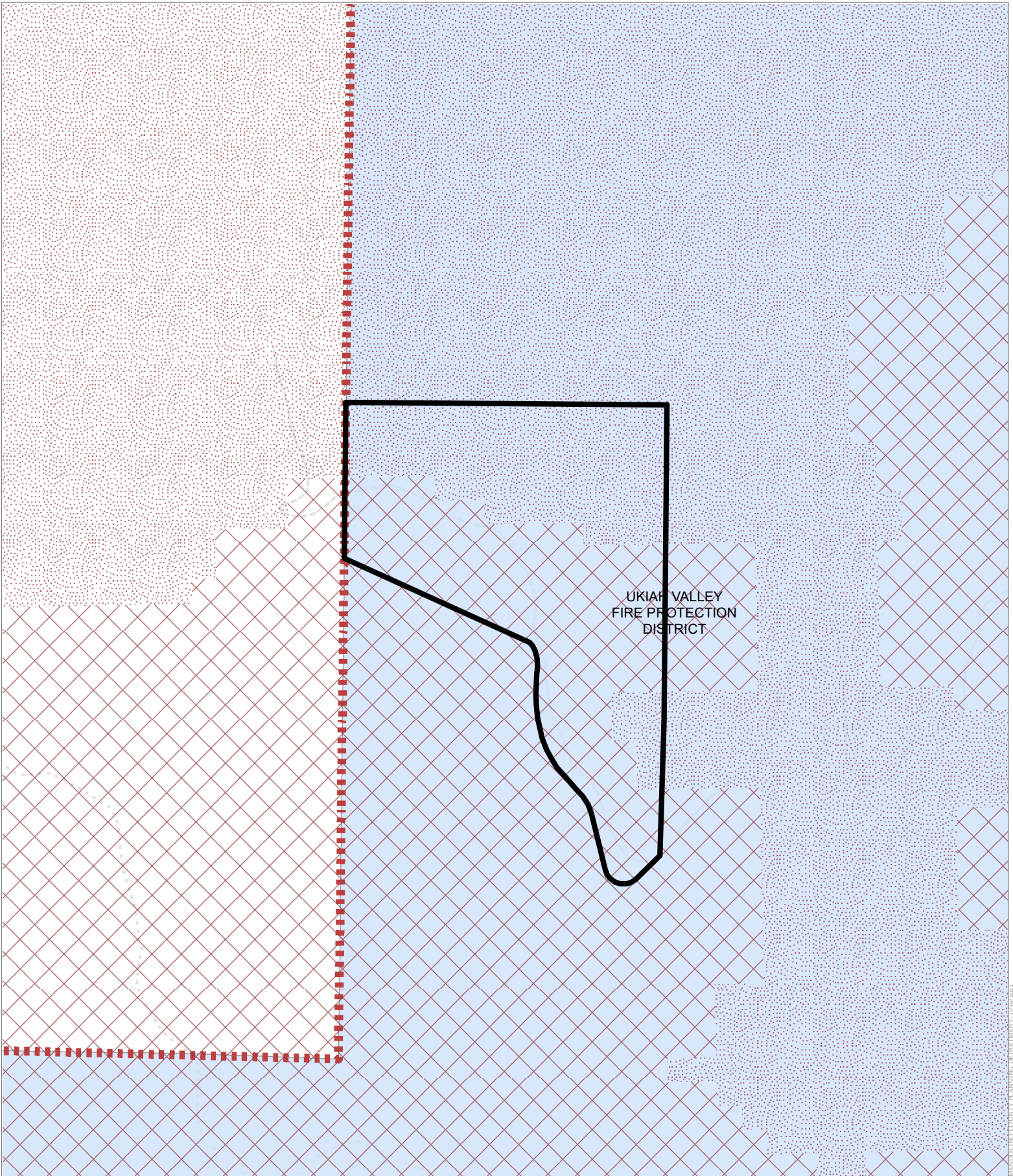
MENDOCINO COUNTY PLANNING DEPARTMENT 11/20/2023

CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah



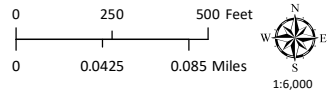
WILDLAND-URBAN INTERFACE

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CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
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ADDRESS: 1600 Oak Knoll Rd., Ukiah

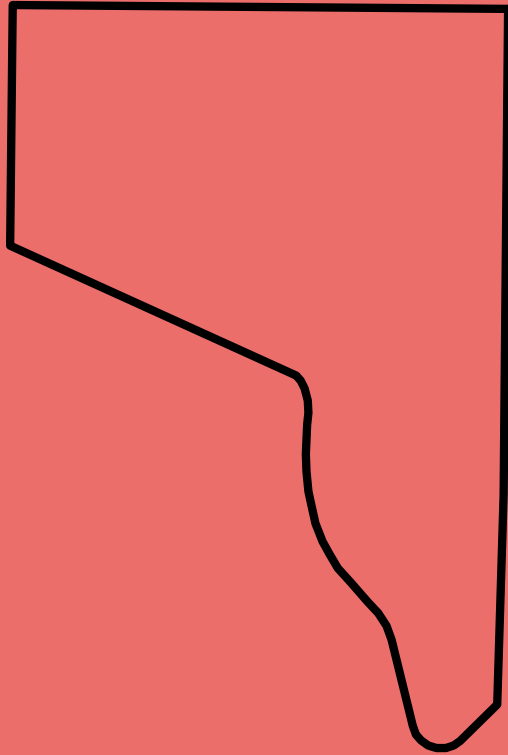
 Very High Fire Hazard
 County Fire Districts
 High Fire Hazard



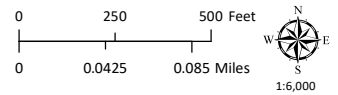
FIRE HAZARD ZONES & RESPONSIBILITY AREAS
 STATE RESPONSIBILITY AREA

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MENDOCINO COUNTY PLANNING DEPARTMENT - 11/29/2022

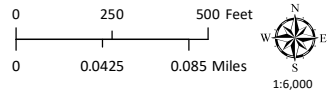
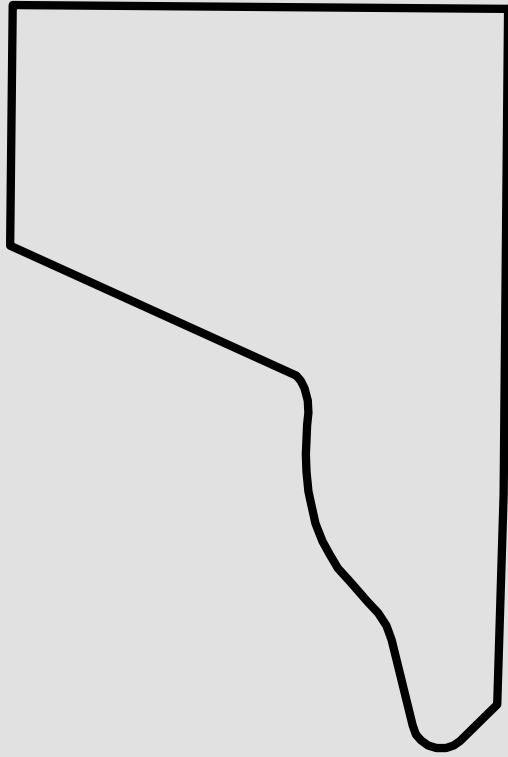


CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah



UKIAH AIRPORT ZONE

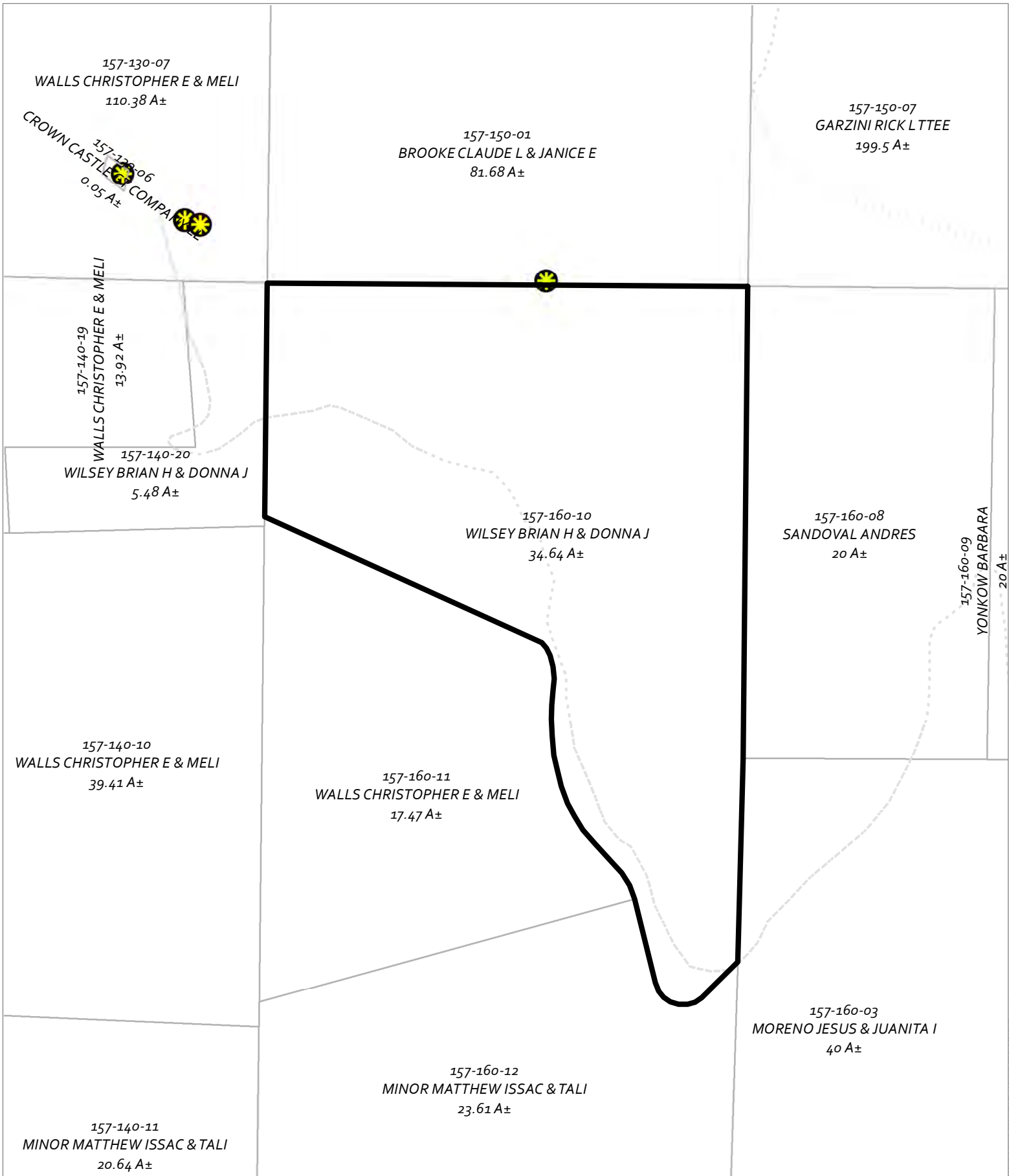
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APN: 157-160-10
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AGENT: Faulk & Foster
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UKIAH VALLEY AREA PLAN ZONE

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157-130-07
WALLS CHRISTOPHER E & MELI
110.38 A±

157-130-06
CROWN CASTLE COMPAN
0.05 A±

157-150-01
BROOKE CLAUDE L & JANICE E
81.68 A±

157-150-07
GARZINI RICK LTTEE
199.5 A±

157-140-19
WALLS CHRISTOPHER E & MELI
13.92 A±

157-140-20
WILSEY BRIAN H & DONNA J
5.48 A±

157-160-10
WILSEY BRIAN H & DONNA J
34.64 A±

157-160-08
SANDOVAL ANDRES
20 A±

157-160-09
YONKOW BARBARA
20 A±

157-140-10
WALLS CHRISTOPHER E & MELI
39.41 A±


157-160-11
WALLS CHRISTOPHER E & MELI
17.47 A±

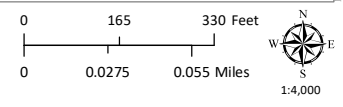
157-160-03
MORENO JESUS & JUANITA I
40 A±

157-160-12
MINOR MATTHEW ISSAC & TALI
23.61 A±

157-140-11
MINOR MATTHEW ISSAC & TALI
20.64 A±

CASE: AP 2022-0052
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: Faulk & Foster
AGENT: Faulk & Foster
ADDRESS: 1600 Oak Knoll Rd., Ukiah

 Approved Wireless Sites



ADJACENT PARCELS

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MENDOCINO COUNTY PLANNING DEPARTMENT - 11/29/2022