COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES
860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

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

June 5, 2019

Department of Transportation
Building Inspection – Ukiah
Emergency Services
Assessor

Air Quality Management
Caltrans
CalFire - Prevention
Cloverdale Rancheria

Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians

CASE#: AP_2019-0046
DATE FILED: 5/2/2019
OWNER: BRIAN H & DONNA J WILSEY
APPLICANT: T-MOBILE
AGENT: EMILY ESTRADA
REQUEST: Administrative Permit to install three (3) new octo antennas and three (3) new radio units for an existing 65 ft. tall telecommunications tower at current wireless facility.
LOCATION: 2.5± miles southwest of the City of Ukiah town 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).
ENVIRONMENTAL DETERMINATION: Categorically Exempt
SUPERVISORIAL DISTRICT: 5
STAFF PLANNER: CHEVON HOLMES
RESPONSE DUE DATE: June 19, 2019

PROJECT INFORMATION CAN BE FOUND AT:
https://www.mendocinocounty.org/government/planning-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_2019-0046

OWNER: Brian & Donna J Wilsey

APPLICANT: T-Mobile

AGENT: Emily Estrada

REQUEST: Administrative Permit to install three (3) new octo antennas and three (3) new radio units for an existing 65 ft. tall telecommunications tower at current wireless facility.

LOCATION: 2.5± miles southwest of the City of Ukiah town 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/S: 1571601000

PARCEL SIZE: ±34.64 Acres (Subject leased area on property 5,625 ft²)

GENERAL PLAN: RMR20

ZONING: UR:40

EXISTING USES: Residential and Telecommunications

SUPERVISORY DISTRICT: 5

RELATED CASES: On January 4, 2001, the Planning Commission approved #U 22-2000 granting conditional approval for U.S. Cellular to construct a 150-foot tall communication tower on the subject property and the decision was not appealed. Numerous residents began to express concerns regarding aesthetic impacts, devalue of property and damage to Oak Knoll Road after the tower was constructed. 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 accused the applicant of 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.

May 2, 2002 the Commission convened to determine the validity of public concerns and possibly take action to modify condition terms or revoke the Use Permit entirely. The Commission ultimately chose to add new and modify previous conditions reducing the overall tower height to less than 75 feet, limiting total panel and microwave antennas installed by all individual wireless carriers to twelve or less and restricted the use of a generator or propane tank at the site unless authorized by a future use permit modification.

Use Permit Modification #UM 22-2000/2009 was approved by the Planning Commission July 16, 2009. The modification permitted the addition of three (3) panel antennas and one (1) microwave dish to the existing telecommunications tower. A battery backup power system, Global Position System (GPS) antenna and four (4) equipment cabinets within the 5, 625 square foot leased area were also included in the modification.

Administrative Use Permit #AP_2014-0025 approved installation of one (1) Long-Term Evolution (LTE) antenna and one (1) pipe mount and two (2) coax December 31, 2014.

A backup generator, propane fuel tank and concrete pad were added to the facility when #UM_2016-0002 was approved by the Commission on October 4, 2016.

	ADJACENT GENERAL PLAN	ADJACENT ZONING	ADJACENT LOT SIZES	ADJACENT USES
NORTH:	RMR 40	UR 40	+/- 81.68 Acres	Vacant
EAST:	RMR 40	UR 40	+/- 20 Acres, +/- 40 Acres	Residential
SOUTH:	RL 160	RL 160	+/- 17.47 Acres, +/- 23.61 Acres	Residential
WEST:	RL 160, RMR 40	UR 40	+/- 5.48 Acres	Telecom Facility

REFERRAL AGENCIES

LOCAL
- ☒ Air Quality Management District
- ☒ Assessor's Office
- ☒ Building Division Ukiah
- ☒ Department of Transportation (DOT)
- ☒ Emergency Services

STATE
- ☒ CALFIRE (Land Use)
- ☒ CALTRANS – Aeronautics Div.

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

STAFF PLANNER: CHEVON HOLMES **DATE:** 5/29/19

ENVIRONMENTAL DATA

1. MAC:
GIS

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

3. FIRE RESPONSIBILITY AREA:
CALFIRE FRAP maps/GIS

4. FARMLAND CLASSIFICATION:
GIS

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

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

7. SOIL CLASSIFICATION:
Mendocino County Soils Study Eastern/Western Part

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

9. WILLIAMSON ACT CONTRACT:
GIS/Mendocino County Assessor's Office

10. TIMBER PRODUCTION ZONE:
GIS

11. WETLANDS CLASSIFICATION:
GIS

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

13. AIRPORT LAND USE PLANNING AREA:
Airport Land Use Plan; GIS

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:
GIS; General Plan 3-11

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

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:
GIS; General Plan 3-10

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

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

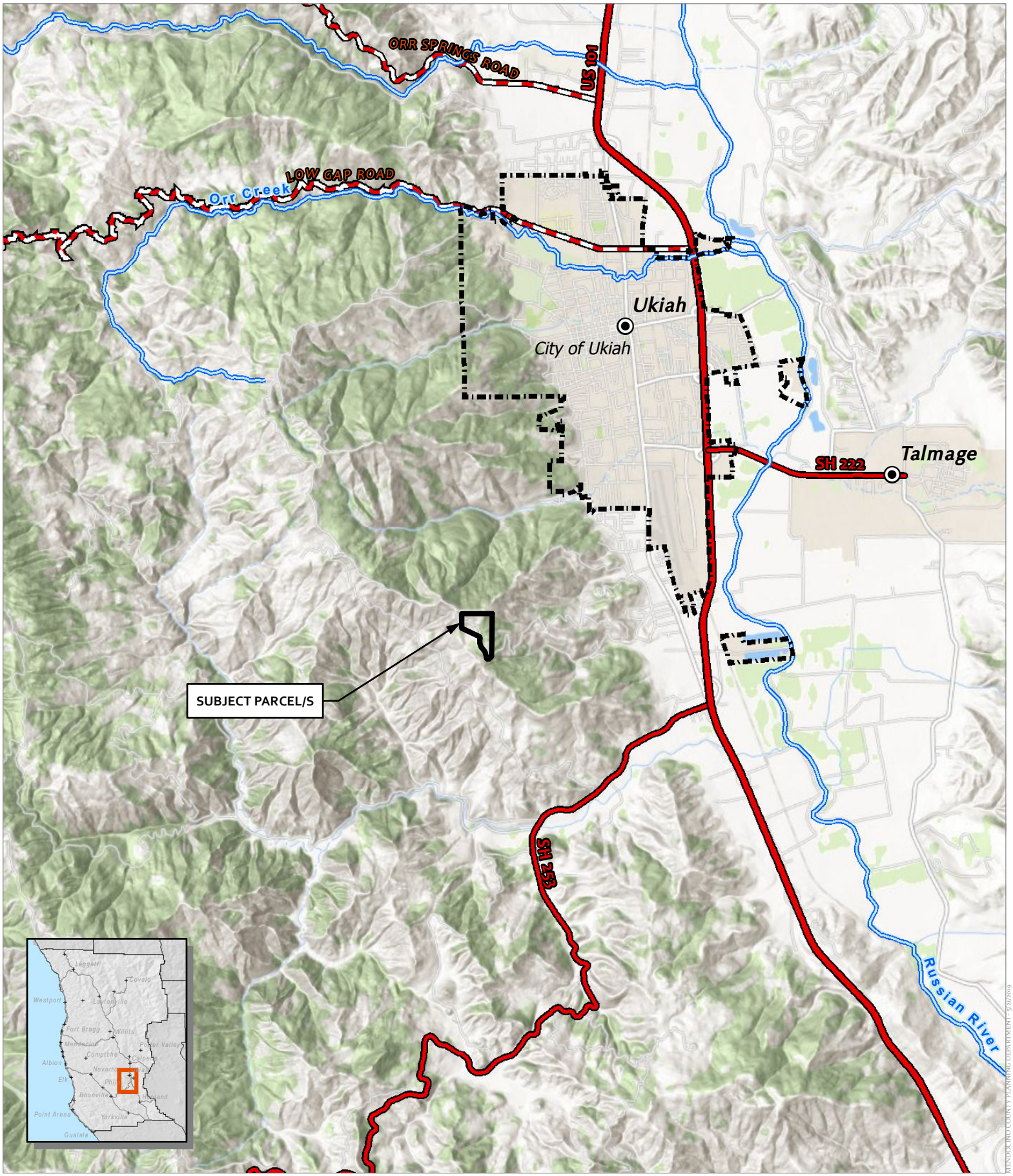
19. WILD AND SCENIC RIVER:
www.rivers.gov (Eel Only); GIS

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

21. STATE CLEARINGHOUSE REQUIRED:
Policy

22. OAK WOODLAND AREA:
USDA

23. HARBOR DISTRICT:
Sec. 20.512



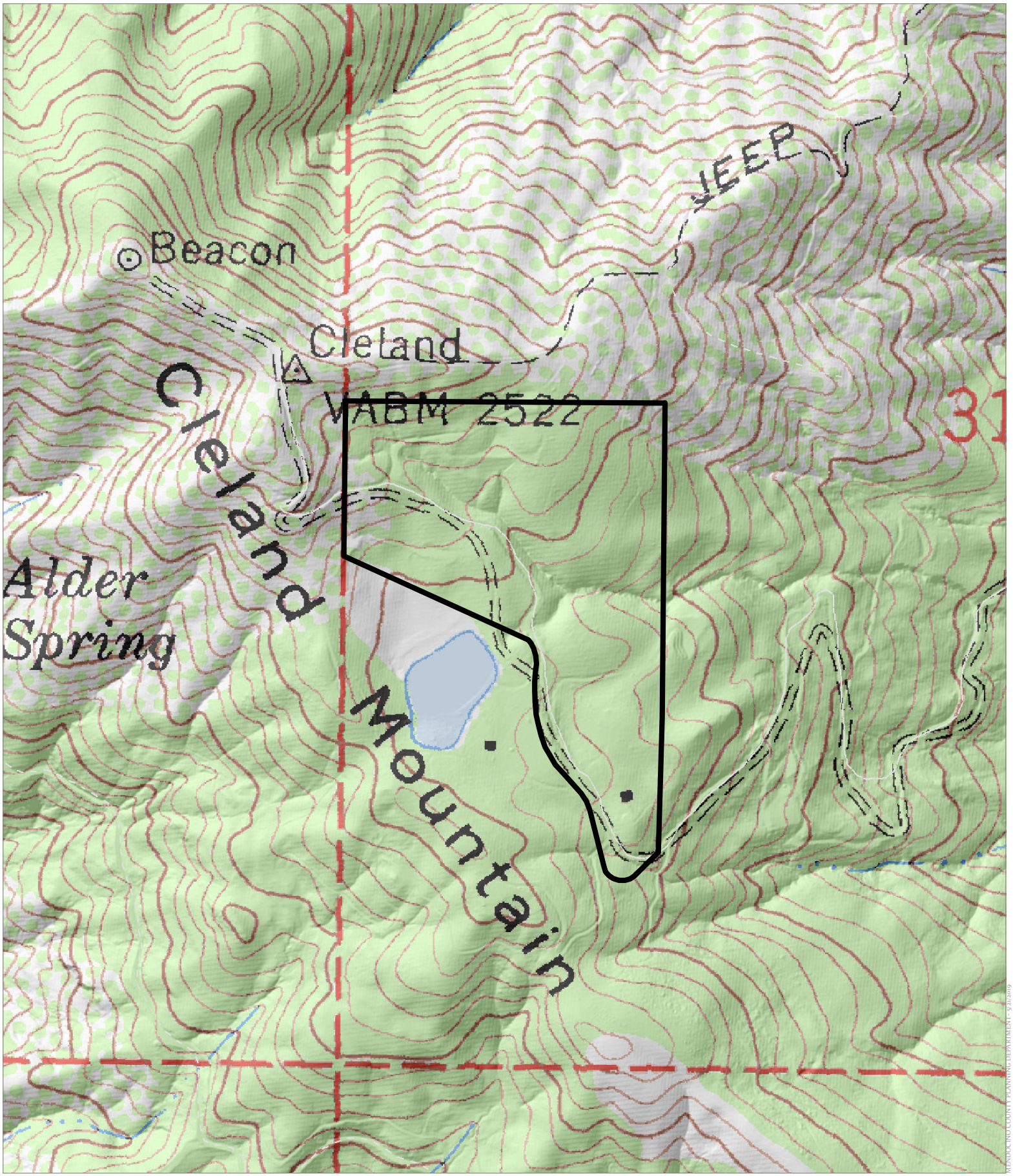
CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

Major Towns & Places
City Limits
Major Rivers
Highways
Major Roads

0 2,550 5,100 Feet
0 0.5 1 Miles
1:63,360

LOCATION MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 9/2/2019



MENDOCINO COUNTY PLANNING DEPARTMENT - 9/10/2019

CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

Driveways/Unnamed Roads

0 250 500 Feet
0 0.0425 0.085 Miles
1:6,000

N W E S

TOPOGRAPHIC MAP
CONTOUR INTERVAL IS 40 FEET

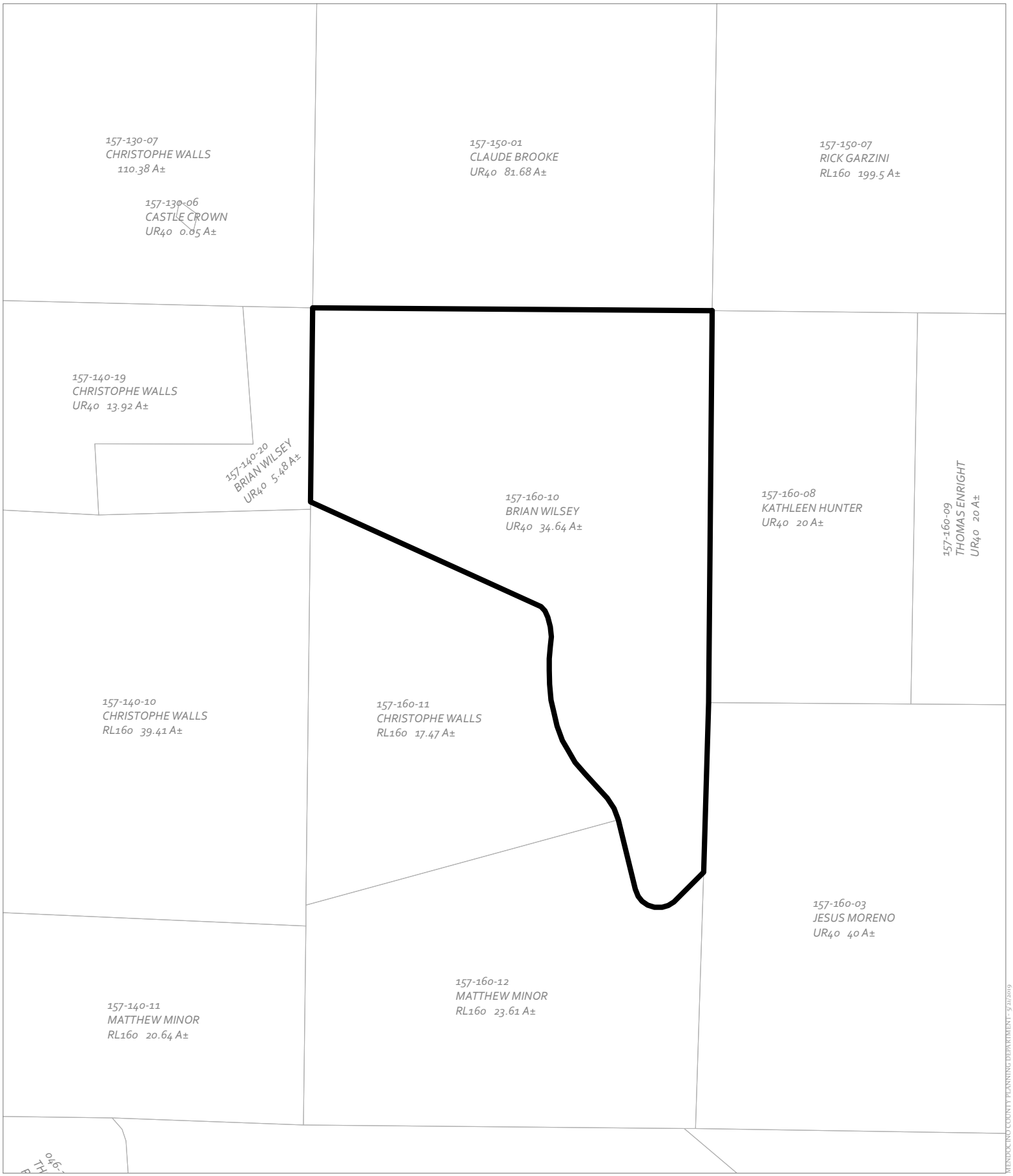
MENDOCINO COUNTY PLANNING DEPARTMENT - 9/10/2019

CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

Driveways/Unnamed Roads

0 200 400 Feet
0 0.035 0.07 Miles
1:4,800

AERIAL IMAGERY

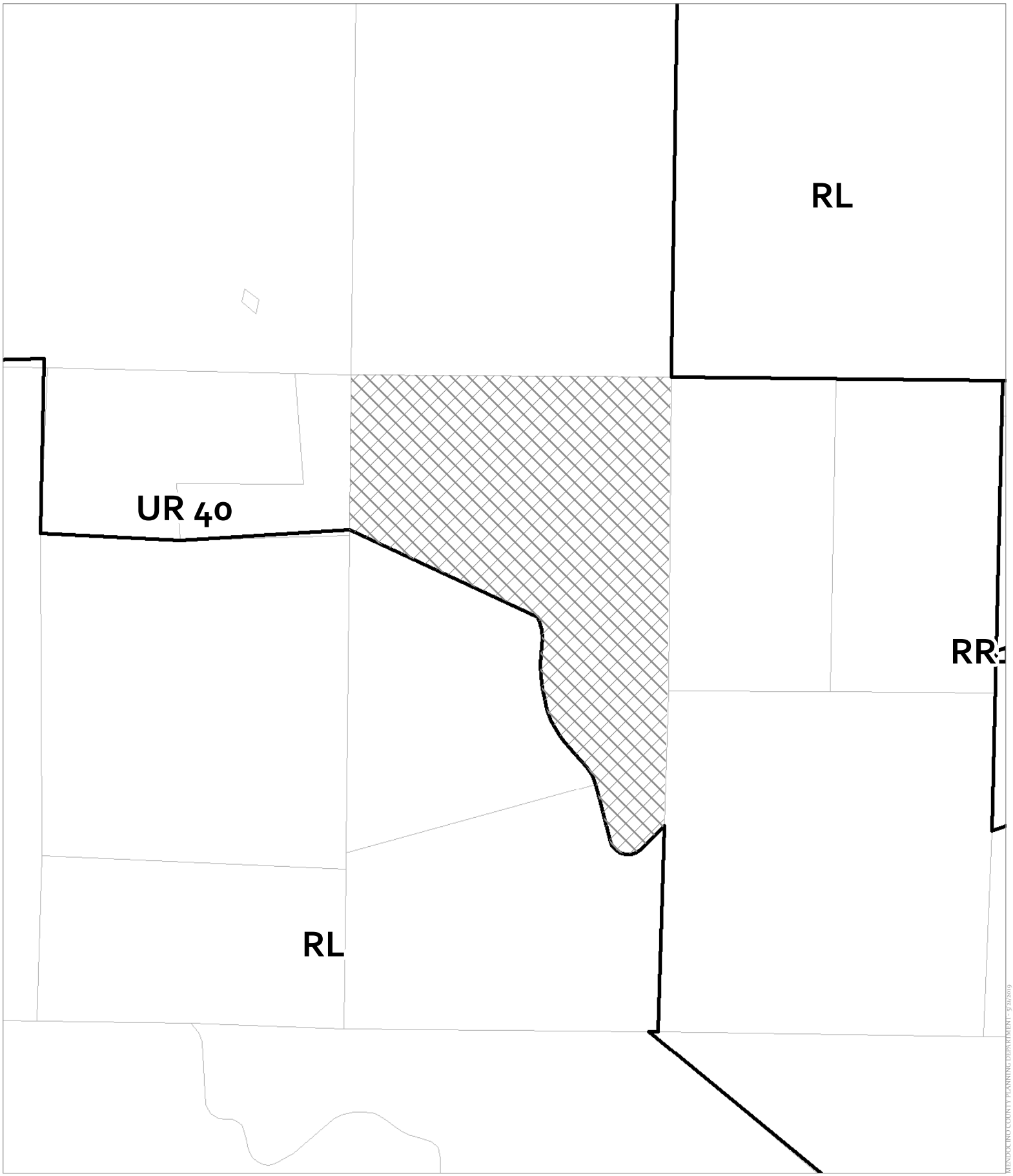


MENDOCINO COUNTY PLANNING DEPARTMENT - 9/2/2019

CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

0 200 400 Feet
0 0.035 0.07 Miles
1:4,800

ADJACENT PARCELS

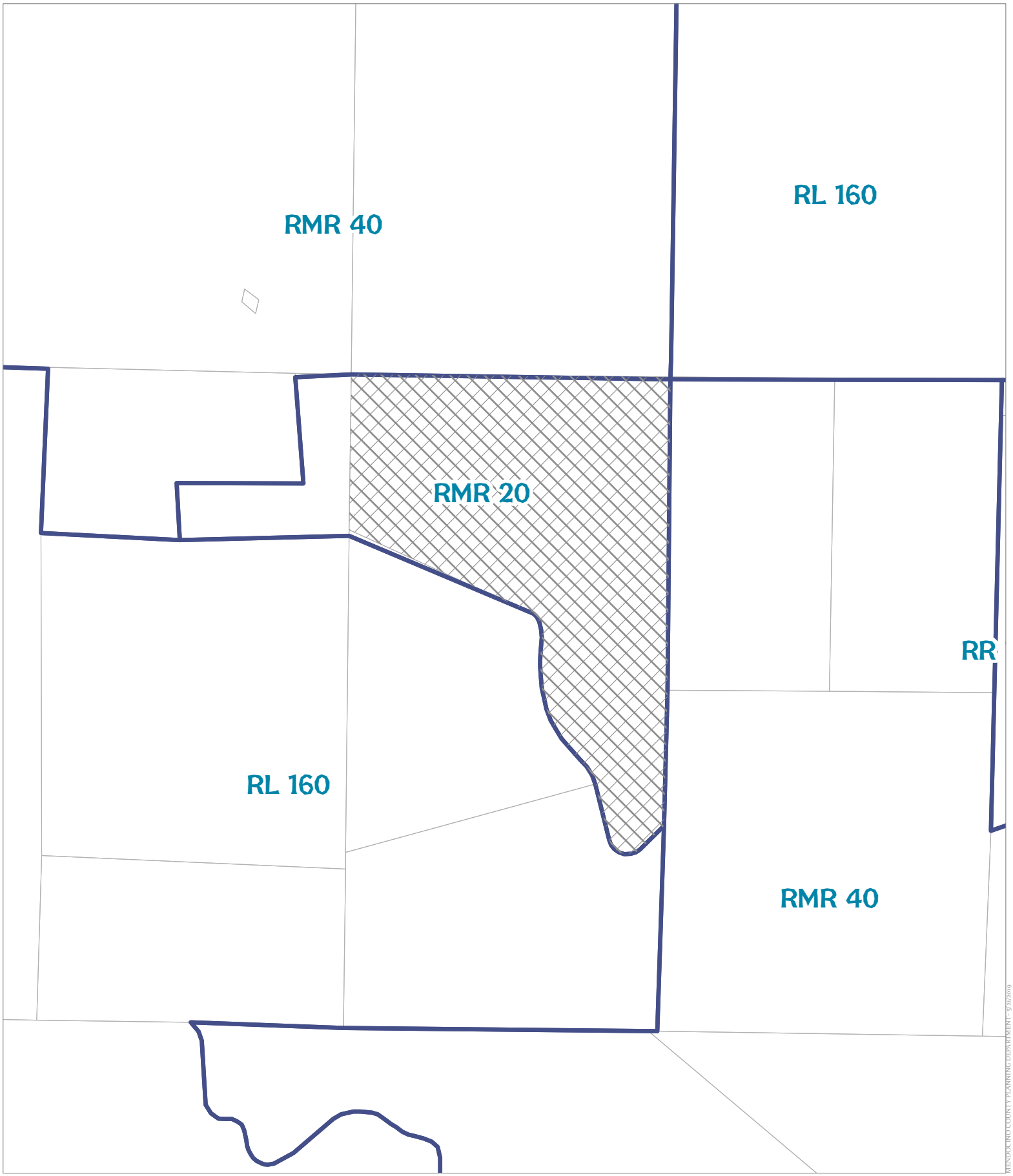


CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

Zoning Districts

0 250 500 Feet
0 0.0425 0.085 Miles
1:6,000

ZONING DISPLAY MAP

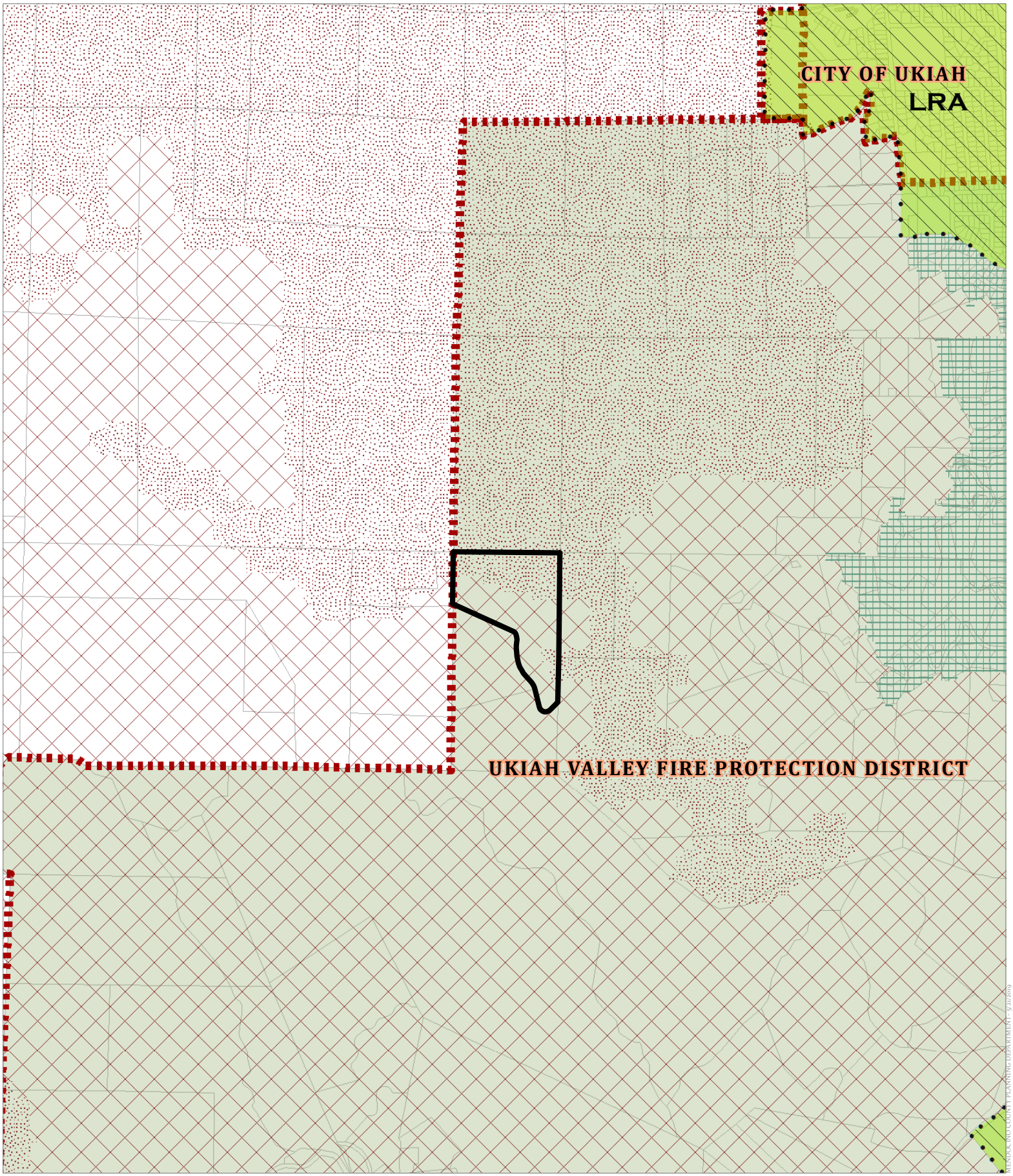


CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

General Plan Classes

0 250 500 Feet
0 0.0425 0.085 Miles
1:6,000

GENERAL PLAN CLASSIFICATIONS



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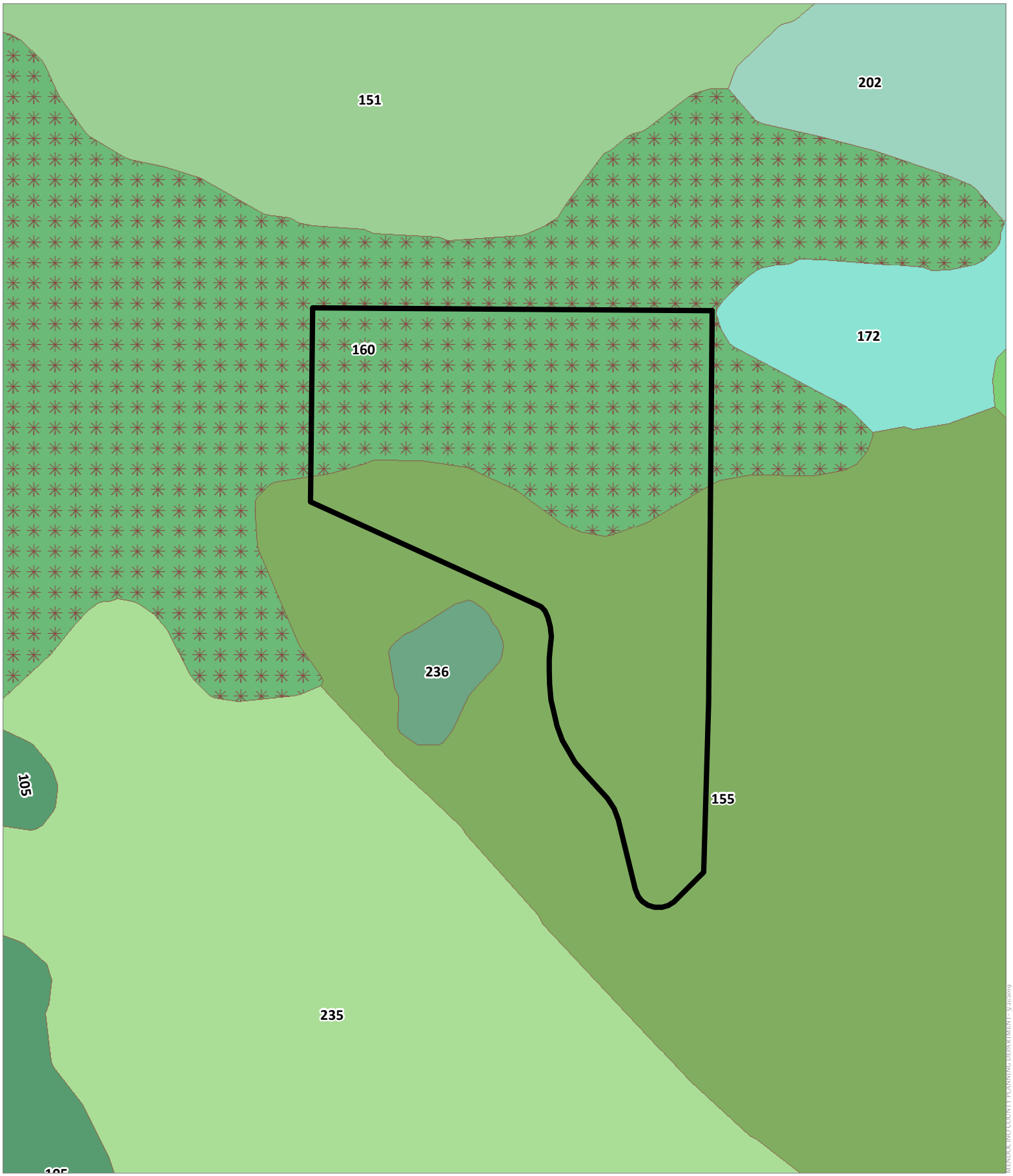
ADDRESS: 1600 Oak Knoll Road, Ukiah

Local Responsibility Areas
Local Responsibility Area
Very High Fire Hazard
High Fire Hazard
Moderate Fire Hazard
County Fire Districts

0 700 1,400 Feet
0 0.125 0.25 Miles
1:18,000

FIRE HAZARD ZONES & RESPONSIBILITY AREAS
STATE RESPONSIBILITY AREA

MENDOCINO COUNTY PLANNING DEPARTMENT - 9 jul 2019



CASE: AP 2019-0046
OWNER: WILSEY, Brian & Donna
APN: 157-160-10
APLCT: T-Mobile
AGENT: Emily Estrada
ADDRESS: 1600 Oak Knoll Road, Ukiah

Eastern Rock Inclusions

Eastern Study Soil Types

0 200 400 Feet
0 0.035 0.07 Miles
1:4,800

LOCAL SOILS

Planning and Building Services

Case No:	AP 2019-0046
CalFire No:	
Date Filed:	5-2-19
Fee:	$2213
Receipt No:	PRJ-027187
Received By:	Keith Gronendyke

Office use only

APPLICATION FORM

APPLICANT

Name: T-Mobile Phone: (510) 682-8356

Mailing Address: 1855 Gateway Blvd., Suite 900

City: Concord State/Zip: CA 94520 email: James.Weiland@T-Mobile.com

PROPERTY OWNER

Name: Donna & Brian Wilsey Phone:

Mailing Address: 1600 Oak Knoll Rd.

City: Ukiah State/Zip: CA 95482 email:

AGENT

Name: Emily Estrada Phone: (781) 696-4444

Mailing Address: 3663 North Laughlin, Suite 101

City: Santa Rosa State/Zip: CA 95403 email: eestrada@synergy.cc

Parcel Size: 34.64 acres (Sq. feet/Acres) Address of Property: 1600 Oak Knoll Rd., Ukiah, CA 95482

Assessor Parcel Number(s): 157-160-10

TYPE OF APPLICATION:

- [x] Administrative Permit
- [ ] Agricultural Preserve
- [ ] Airport Land Use
- [ ] CDP- Admin
- [ ] CDP- Standard
- [ ] Certificate of Compliance
- [ ] Development Review
- [ ] Exception
- [ ] Flood Hazard
- [ ] General Plan Amendment
- [ ] Land Division-Minor
- [ ] Land Division- Major
- [ ] Land Division-Parcel
- [ ] Land Division-Resubdivision
- [ ] Modification of Conditions
- [ ] Reversion to Acreage
- [ ] Rezoning
- [ ] Use Permit-Cottage
- [ ] Use Permit-Minor
- [ ] Use Permit-Major
- [ ] Variance
- [ ] Other

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

Signature of Applicant/Agent *Date* 4/29/2019 *Signature of Owner* *Date*

Mendocino County
MAY 02 2019
Planning & Building Services

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.

T-Mobile proposes to modify an existing telecommunications site by adding three (3) new octo antennas and adding three (3) new radio units.

2. **Structures/Lot Coverage**	**Number of Units**		**Square Footage**		
	Existing	Proposed	Existing	Proposed	Total
☐ Single Family ☐ Mobile Home ☐ Duplex ☐ Multifamily ☐ Other: _____ ☐ Other: _____					
Total Structures Paved Area Landscaped Area Unimproved Area					
GRAND TOTAL (Equal to gross area of Parcel)					

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

Estimated employees per shift:_____
Estimated shifts per day:_____
Type of loading facilities proposed:_____

4. Will the proposed 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 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
Number of covered spaces	_____	_____
Number of uncovered spaces	_____	_____
Number of standard spaces	_____	_____
Number of handicapped spaces	_____	_____
Existing Number of Spaces	_____	
Proposed Additional Spaces	_____	
Total	_____	

8. Is any road construction or grading planned? ☐Yes ■No If yes, grading and drainage plans may be required. Also, describe the terrain to be traversed (e.g., steep, moderate slope, flat, etc.).

_____
_____
_____
_____

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

A. Amount of cut_____ cubic yards
B. Amount of fill_____ cubic yards
C. Maximum height of fill slope_____ feet
D. Maximum height of cut slope_____ feet
E. Amount of import or export_____ cubic yards
F. Location of borrow or disposal site_____

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:
N/A

22. Describe the location of the site in terms of readily identifiable landmarks (e.g., mailboxes, mile posts, street intersections, etc.):
This site is located on an undeveloped forested area.

23. Are there existing structures on the property? ■Yes ☐No
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.
Existing wireless facility

24. Will any existing structures be demolished or removed? ☐Yes ■No
If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

25. Project Height. Maximum height of existing structures 65 feet. Maximum height of proposed structures 65 feet.

26. Gross floor area of existing structures____square feet (including covered parking and accessory buildings). Gross floor area of proposed structures_____square feet (including covered parking and accessory buildings).

27. Lot area (within property lines): 34.64 ☐square feet ■acres.

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful.
The parcel is predominantly covered with trees and other vegetation.
The project site is in an existing clearing.

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

30. Indicate the surrounding land uses:

	North	East	South	West
Vacant				
Residential Agricultural				
Commercial Industrial				
Institutional Timberland				
Other	UR	UR	UR	UR

CERTIFICATION AND SITE VIEW AUTHORIZATION- SUBMIT ONLY ONE COPY

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 4/30/19

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

AUTHORIZATION OF AGENT

I hereby authorize see attached LOA for agent authorization 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**

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.

Applicant: _____ Date: 4/30/19

L600

Mendocino County

MAY 02 2019

Planning & Building Services

T · ·Mobile·®

SITE NUMBER: SF40848A
SITE NAME: US CELL-SPANISH MTN
SITE TYPE: TOWER
CITY: UKIAH
COUNTY: MENDOCINO
JURISDICTION: MENDOCINO COUNTY

PROJECT SUMMARY

SITE ADDRESS:
1600 OAK KNOLL ROAD
UKIAH, CA 95482

PROPERTY OWNER CONTACT:
WILSEY BRIAN H & DONNA J
1600 OAK KNOLL RD
UKIAH, CA 95482

APPLICANT:
T–MOBILE WEST LLC
1855 GATEWAY BLVD. SUITE 900
CONCORD, CA 94520

REPRESENTATIVE: TROY EGGLESTON
T–MOBILE PROJECT MANAGER: JAMES WEILAND
PROJECT MANAGER: JESSE BURGESS
CONSTRUCTION MANAGER: JORDAN EGLER
CONSTRUCTION COORDINATOR: PATRICIA SAMES

BUILDING SUMMARY

OCCUPANCY CLASSIFICATION: U (UNNAMED TELECOMMUNICATION FACILITY)
ZONE CLASSIFICATION: UR
BUILDING USE:
CONSTRUCTION TYPE:
APN: 157–160–10

PROJECT DESCRIPTION

THE PROJECT ENTAILS:
T–MOBILE PROPOSED TO MODIFY (E) WIRELESS TELECOMMUNICATIONS SITE BY:

L600:
1. REMOVE L21 DiPLEXER AND CONNECT CABLES STRAIGHT TO TMA.
2. ADD (3) RF APXVAARR24_43–U–NA20 (OCTO), (1) PER SECTOR
3. ADD (3) RADIO 4449 B12+B71, (1) PER SECTOR @ ANTENNAS

EQUIPMENT NOTES:
1. REPLACE DUL20 WITH (1) 6630
2. ADD (1) 6630 FOR N600 DARK
3. ADD (1) HCS

LEGAL DESCRIPTION

ABBREVIATED DESCRIPTION: CITY:UNINCORPORATED AREA CITY/MUNI/TWP: UNINCORPORATED AREA

CONSULTING TEAM

SAC/ZONING/PERMITTING:
SYNERGY A DIVISION OF
ADVANTAGE ENGINEERS, LLC
3663 N. LAUGHLIN ROAD, SUITE 101
SANTA ROSA, CA 95403
CONTACT: TROY EGGLESTON
PHONE: (707) 888–5191

ARCHITECTURAL/ENGINEERING:
SYNERGY A DIVISION OF
ADVANTAGE ENGINEERS, LLC
VAN NUYS, CA 91406
CONTACT: ADAM BRONNENKANT, P.E.
PHONE: (818) 840–0808
FAX: (818) 688–8066

STRUCTURAL ENGINEERING:
SYNERGY A DIVISION OF
ADVANTAGE ENGINEERS, LLC
VAN NUYS, CA 91406
CONTACT: ADAM BRONNENKANT, P.E.
PHONE: (818) 840–0808
FAX: (818) 688–8066

LATITUDE / LONGITUDE

LAT: 39° 06' 59.04" N LAT: 39.11640°
LONG: –123° 13' 48.00" W LONG: –123.23000°

UTILITY PURVEYOR

POWER:
COMPANY: PG&E

TELCO:
COMPANY: AT&T

APPROVAL

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD:			
ZONING MGR:			
DEVELOP. MGR:			
CONST. MGR:			
PROJECT MGR:			
SR. RF ENGINEER:			
RF ENGINEER:			
OPERATIONS:			
SAC REP.:			
UTILITIES:			
REAL ESTATE MGR:			

DRAWING INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	ABBREVIATIONS, SPECIFICATIONS AND SYMBOLS
T-4	GENERAL STRUCTURAL NOTES
A-1	OVERALL SITE PLAN
A-2	ANTENNA LAYOUT PLANS AND ANTENNA SCHEDULE
A-3	EQUIPMENT LAYOUT PLAN
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	DETAILS
G-1	GROUNDING NOTES AND DETAILS

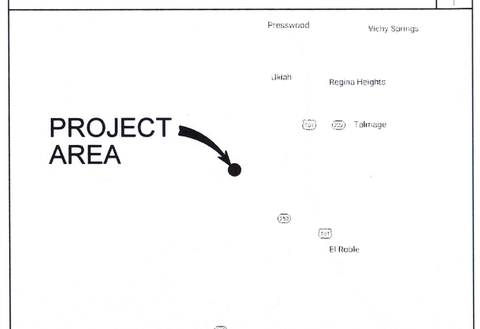
ACCESSIBILITY REQUIREMENTS

THE FACILITY IS UNMANNED AND NOT FOR CONTINUOUS HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED PER CBC 2016,
SECTION 11B–203.4 (LIMITED ACCESS SPACES)
SECTION 11B–203.5 (MACHINERY SPACES)

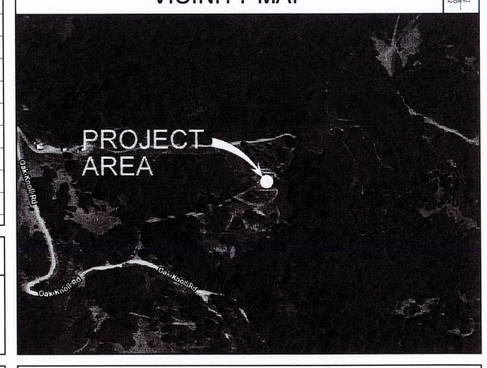
CODE COMPLIANCE

1. CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25) 2016
2. CALIFORNIA BUILDING CODES 2016
3. CALIFORNIA ELECTRICAL CODES 2016
4. CALIFORNIA MECHANICAL CODES 2016
5. CALIFORNIA PLUMBING CODES 2016
6. ANSI / EIA–222 G
7. LOCAL BUILDING CODES
8. CITY / COUNTY ORDINANCES
9. CALIFORNIA FIRE CODE 2016 EDITION
10. ASCE 7–16
11. ACI 318–14

GENERAL LOCATION MAP



VICINITY MAP



DRIVING DIRECTION

DIRECTIONS FROM T–MOBILE OFFICE:
HEAD SOUTHEAST ON GATEWAY BLVD/ TURN RIGHT ONTO CLAYTON RD. TURN RIGHT ONTO MARKET ST. TURN LEFT ONTO WILLOW PASS RD. TURN RIGHT ONTO THE INTERSTATE 680 N RAMP TO SACRAMENTO. MERGE ONTO I–680 N. KEEP LEFT AT FORK TO CONTINUE ON I–680. TAKE EXIT 58A FOR INTERSTATE 780 TOWARD BENICIA/VALLEJO. CONTINUE ONTO I–780 W. TAKE EXIT 1B TOWARD SACRAMENTO. MERGE ONTO I–80 E. TAKE EXIT 33 FOR CA–37 TOWARD NAPA. CONTINUE ONTO CA–37 W. TURN RIGHT ONTO LAKEVILLE HWY. TURN RIGHT TO MERGE ONTO US–101 N. FOLLOW US–101 N TO S STATE ST IN MENDOCINO COUNTY. TAKE EXIT 546 FROM US–101 N.

T · ·Mobile·
Stick Together
1855 GATEWAY BLVD. SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:
(L600)
SF40848A
US CELL-SPANISH MTN
1600 OAK KNOLL ROAD,
UKIAH, CA 96482
MENDOCINO COUNTY

CURRENT ISSUE DATE:
03/22/19

ISSUED FOR:
CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
A	03/22/19	90% CD	L.F.

PLANS PREPARED BY:

Synergy
a division of advantage engineers
7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:

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DRAWN BY:	CHK.:	APV.:
L.F.	AB	AB

LICENSURE:
REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENKANT
C74190
EXP. 6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1
REVISION: A
SF40848A

ROOFING & WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT THE BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE CLIENT PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHED AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LINE-NEW CONDITIONS. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED T-MOBILE CONSTRUCTION MANAGER IN ADVANCE.
5. AT THE CLIENT CONSTRUCTION MANAGER'S DISCRETION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES NOTES

1. AT THE CLIENT PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

GENERAL NOTES

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
2. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATION.
3. THIS FACILITY IS AN UNOCCUPIED T-MOBILE TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH THE CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY SYNERGY AND THE PROJECT ARCHITECT / ENGINEER IN WRITING. IN THE EVENT OF DISCREPANCIES FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY SYNERGY AND THE PROJECT ARCHITECT / ENGINEER IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF THE CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT / ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE PROJECT ARCHITECT / ENGINEER.
5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
6. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

   NCRA NATIONAL ROOFING CONTRACTORS ASSOCIATION
   O' HARE INTERNATIONAL CENTER
   10255 W. HIGGENS ROAD, SUITE 600
   ROSEMONT, IL 60018

   SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
   NATIONAL ASSOCIATION
   4201 LAFAYETTE CENTER DRIVE
   CHATILLY, VA 22021-1209

   ITLP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER
   820 TRANSFER ROAD
   ST. PAUL, MN 55114-1406

8. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS PRECEDENCE.
9. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATER TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

GENERAL NOTES (CONTINUATION)

11. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
12. ALL EXPOSED METAL SHEET SHALL BE HOT-DIPPED GALVANIZED.
13. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
14. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
15. PRIOR TO STARTING CONSTRUCTION OF THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK.
16. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
17. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDUM'S, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT DRAWINGS TO THE ARCHITECT/ENGINEER AND THE LANDLORD/LESSOR AT THE CONCLUSION OF THE PROJECT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE FROM THE START TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE AT ALL TIMES FOR THE LANDLORD/LESSOR PERSONNEL.
19. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER, WATER AND TOILET FACILITIES.
20. ALL CONSTRUCTION PHASES OF THE PROJECT SHALL CONFORM TO THE CURRENT 2016 CBC, 2015 I.B.C. AND ALL OTHER GOVERNING CODES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE OR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
22. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND/OR INSPECTIONS TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF THE SAID DOCUMENT.
24. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE UNLESS OTHERWISE NOTED.
25. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH THE FIRE RATE ASSEMBLIES.
27. (N) CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
28. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
29. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
30. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT DAILY. PREMISES SHALL BE LEFT IN A CLEAN/SWEPT CONDITION AT ALL TIMES.
31. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTING REGARDING THEIR EXACT MEANING THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.
32. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
33. CONTRACTORS SHALL BID WALK THE PROJECT TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
34. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE (N) WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR THE FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTOR(S).
35. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.
36. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
37. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
38. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.
39. ANY REFERENCES TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUBCONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.

GENERAL NOTES (CONTINUATION)

40. A PRE-CONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM AFFECTED AGENCIES SHALL BE HELD ON THE JOB AT LEAST ONE (1) WEEK PRIOR TO BEGINNING CONSTRUCTION.
41. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE FIELD MEASUREMENTS AS NECESSARY TO COMPLETE ALL WORKS AND THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN. SYNERGY IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM THIS PRACTICE WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.
42. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

SITE PREPARATION NOTES

1. THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT MIGHT DAMAGE THE FOOTINGS OF THE (N) STRUCTURE.
2. BACKFILL ALL TRENCHES WITH CLEAN, STERILE SOIL HAVING A SAND EQUIVALENT OF 30% OR GREATER. BACKFILL IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED. ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS.
3. ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH AS INDICATED IN PLANS.
4. SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER UNEXPECTED CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE (N) FOUNDATION, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.
5. WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS, EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
6. THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
7. PROOF ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
8. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8" LOOSE LIFTS AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698. COMPACT TO A MINIMUM OF 90% RELATIVE COMPACTION
9. ANY STRUCTURAL DRAWINGS HERE IN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. THE ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR COMPLICATIONS, DAMAGES, INJURY, OR DEATH ARISING OUT OF ANY KIND OF NEGLIGENCE PRIOR TO COMPLETION OF THE FINISHED STRUCTURE.
11. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO (N) OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. PRIOR TO PROCEEDING WITH ANY WORK WITHIN AN EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.

SHOP DRAWING REVIEW

1. REVIEW BY THE ARCHITECT/ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTION FABRICATION PROCESSES.

LANDLORD/LESSOR NOTES

1. A PRECONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM APPLICABLE AGENCIES SHALL BE HELD ON SITE AT LEAST ONCE PRIOR TO BEGINNING CONSTRUCTION AT WHICH TIME A CONSTRUCTION SCHEDULE AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO LANDLORD/LESSOR.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE AT ALL TIMES FOR LANDLORD/LESSOR PERSONNEL. OPEN TRENCHES SHALL BE PROPERLY PLATED AT THE END OF EACH WORKING DAY TO ALLOW FOR 24-HOUR LANDLORD/LESSOR ACCESS TO THE SITE.
3. THE CONTRACTOR AND CELL CARRIER SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES TO THE EXISTING SITE AND SHALL RETURN DAMAGED FACILITIES TO EXISTING CONDITION OR BETTER AT NO COST TO THE LANDLORD/LESSOR.
4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (DIG ALERT) AT LEAST TWO (2) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AT 1-800-422-4133.
5. ALL (N) AND EXISTING FACILITIES OWNED BY THE REPRESENTED CELLULAR CARRIER SHALL BE PROPERLY TAGGED IDENTIFYING THE OWNER'S NAME AND 24-HOUR PHONE NUMBER.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE SITE IS SECURE DURING BOTH WORKING AND NON-WORKING HOURS.

ACCESSIBILITY EXCEPTION NOTES

1. SECTION 11B-203.4: LIMITED ACCESS SPACES - SPACES NOT CUSTOMARILY OCCUPIED AND ACCESSED ONLY BY LADDERS, CATWALKS, CRAWL SPACES OR VERY NARROW PASSAGEWAYS SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE.
2. SECTION 11B-203.5: MACHINERY SPACES - SPACES FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR OR OCCASIONAL MONITORING OF EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY WITH THIS REQUIREMENT OR TO BE ON AN ACCESSIBLE ROUTE. MACHINERY SPACES INCLUDE, BUT ARE NOT LIMITED TO, ELEVATOR PITS OR ELEVATOR PENTHOUSES; MECHANICAL. ELECTRICAL OR COMMUNICATIONS EQUIPMENT ROOMS; PIPING OR EQUIPMENT CATWALKS; WATER OR SEWAGE TREATMENT PUMP ROOMS AND STATIONS; ELECTRIC SUBSTATIONS AND TRANSFORMER VAULTS; AND HIGHWAY AND TUNNEL FACILITIES.

GENERAL RF NOTES

1. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY T-MOBILE WIRELESS AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
2. PRIOR TO INSTALLATION OF ANTENNAS THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS.
3. ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAYS, GROUND KITS, CLAMPS, GROUNDS, ETC., FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH T-MOBILE WIRELESS STANDARDS.
4. ANTENNA CONDUIT SHALL INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE AS REQUIRED TO MEET COAX MANUFACTURER'S MINIMUM BENDING RADIUS.
5. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH STEEL BENDS. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED, PAINTED, SCHEDULE 80 PVC.
6. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 GA GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 GA GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY T-MOBILE WIRELESS PROJECT MANAGER.
7. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR EXISTING OBSTRUCTIONS AND MAINTAIN REQUIRED CLEARANCE FROM EXISTING EQUIPMENT AND FACILITIES.
8. MAXIMUM LENGTH OF 7/8" COAXIAL CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-5/8" COAXIAL CABLE SHALL BE 240'-0".
9. VERIFY MODEL NUMBERS OF ANTENNAS WITH T-MOBILE WIRELESS SERVICES.
10. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE T-MOBILE WIRELESS PROJECT MANAGER.
11. INSTALL EMBOSSED ALUMINUM IDENTIFICATION TAGS AT THE END OF THE MAIN COAXIAL CABLE RUNS, ALONG WITH THE END OF THE JUMPER CABLE LOCATED WITHIN THE PLINTH SECTION OF THE BTS UNIT.

NOTE:
CONTRACTOR TO FIELD VERIFY ALL (E) CONSTRUCTION CONDITIONS BEFORE SUBMITTAL OF FINAL BIDS, START OF CONSTRUCTION AND OR FABRICATION.

T
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:
(L600)
SF40848A
US CELL-SPANISH MTN
1600 OAK KNOLL ROAD,
UKIAH, CA 96482
MENDOCINO COUNTY

CURRENT ISSUE DATE:
03/22/19

ISSUED FOR:
CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
A	03/22/19	90% CD	L.F.

PLANS PREPARED BY:
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LICENSURE:
REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENKANT
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EXP. 6/30/19
CIVIL
STATE OF CALIFORNIA

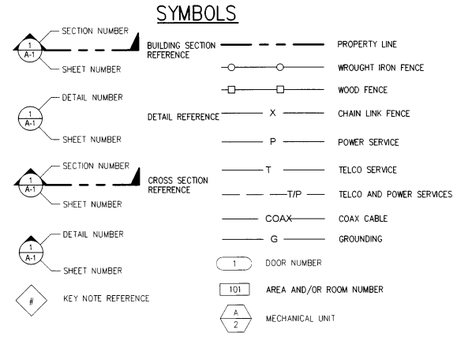
SHEET TITLE:
GENERAL NOTES

SHEET NUMBER: T-2
REVISION: A
SF40848A

ABBREVIATIONS

AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
A.C.	AIR CONDITIONING
ADJ	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
ARCH	ARCHITECTURAL
APPROX.	APPROXIMATELY
A.G.L.	ABOVE GRADE LEVEL
A.M.S.L.	ABOVE MEAN SEA LEVEL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BSMT	BASEMENT
BTS	BASE TRANPGEIVER STATION
C	COURSE(S)
CEM	CEMENT
CL	CHAIN LINK
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CO	CONDUIT ONLY
DIA	DIAMETER
DBL	DOUBLE
DEPT	DEPARTMENT
DEMO	DEMOLITION
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
EQUIP	EQUIPMENT
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FF	FINISH FLOOR
FH	FLAT HEAD
FIN	FINISH(ED)
FLR	FLOOR
FOS	FACE OF STUDS
FS	FINISH SURFACE
FT	FOOT, FEET
FTG	FOOTING
FW	FINISH WALL
F.G.	FINISH GRADE
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GR	GRADE
GYP	GYPSUM
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
HC	HOLLOW CORE
HDW	HARDWARE
HTR	HEATER
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HV	HIGH VOLTAGE
ID	INSIDE DIMENSION
INS	INSULATION
INT	INTERIOR
JT	JOINT
LAM	LAMINATED
LBS	POUNDS
LT	LIGHT
LA	LIGHTNING ARRESTOR
LNA	LOW NOISE AMPLIFIER
MFR	MANUFACTURER
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MS	MACHINE SCREW
MTD	MOUNTED
MTL	METAL
(N)	(N)
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OA	OVERALL
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PARTN	PARTITION
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
POC	POINT OF CONNECTION
PROP	PROPERTY
PT	PRESSURE TREATED
R	RISER
REQD	REQUIRED
RD	ROOF DRAIN
RM	ROOM
RMS	ROOMS
RO	ROUGH OPENING
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SWBO	SWITCHBOARD
THK	THICK
TI	TENANT IMPROVEMENT
TMA	TOWER MOUNTED AMPLIFIER
TOS	TOP OF SURFACE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
VG	VERTICAL GRAIN
W/	WITH
WD	WOOD
WR	WATER RESISTANT
WT	WEIGHT
XFMR	TRANSFORMER
@	AT
[	CHANNEL
℄	CENTERLINE
∠	ANGLE
ℙ	PROPERTY LINE

SYMBOLS



ABBREVIATIONS AND SYMBOLS | 2

PAINTING SPECIFICATIONS

A. GENERAL

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.

2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.

3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.

4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.

5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE CINGULAR WIRELESS CONSTRUCTION MANAGER.

6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.

7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.

8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.

9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.

10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE CINGULAR WIRELESS CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE

SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				
ANTENNA COVERS, RLT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.				
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS				
DRYWALL				
CONCRETE POLES				
METAL POLES AND METAL POLE STAND-OFF				

C. COATING SYSTEM SPECIFICATIONS

1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).

2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER

PAINT & PRIMER

D. ANTENNAS
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

BTS CABINET
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES
PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

RAW STEEL
PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL
PRIMER - OTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRE-PRIMED STEEL
TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SS0WZ4

ALUMINUM & COPPER
PRIMER - DTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

CONCRETE MASONRY
PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

CONCRETE STUCCO(EXISTING)
2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

STUCCO
PRIMER - PRO MAR MASONRY CONDITONER B-46-W21000
TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS

WOOD
PRIMER - A-100 EXTERIOR ALKYD WOO9D PRIMER Y-24W20
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356
ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

STEEL TOUCH UP
STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

SPECIFICATIONS | 1

T

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN

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SHEET TITLE:

ABBREVIATIONS, SPECIFICATIONS & SYMBOLS

SHEET NUMBER: T-3

REVISION: A

SF40848A

GENERAL NOTES

1. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND CBC-2016 SPECIFICATIONS.
2. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
3. STRUCTURAL DRAWINGS SHALL WORK IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
4. DESIGN, MATERIALS, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS. SHOULD CONDITIONS BECOME APPARENT THAT DIFFER FROM THE CONDITIONS SHOWN, THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROFESSIONAL ENGINEER. PROFESSIONAL ENGINEER WILL THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE CONDITIONS AS BROUGHT TO THEIR ATTENTION.
6. MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ISOLATORS, FASTENERS, AND OTHER ELEMENTS PROVIDING STABILITY FOR MECHANICAL EQUIPMENT SHALL BE CAPABLE OF TRANSMITTING CODE REQUIRED LOADS, BUT IN NO EVENT LESS THAN A SHEAR LOAD EQUIVALENT TO 0.45 TIMES THE OPERATING WEIGHT OF THE EQUIPMENT.
7. WATERPROOFING: SEE ARCHITECTURAL DRAWINGS.
8. THE FOUNDATION DESIGN IS BASED ON CBC-2016 TABLE 1806.2. ALLOWABLE SOIL BEARING VALUE IS 1500.
9. THE NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
10. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONCRETE

1. ALL POURED-IN-PLACE CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. UNLESS OTHERWISE NOTED, CEMENT TO BE TYPE-8 FROM TESTED STOCK PER ASTM C-150.
2. CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
3. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS OR OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
4. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
5. FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4" CHAMFERS UNLESS DETAILED OTHERWISE.
6. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 U.N.O.
2. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
3. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE IS NOT AN ACCEPTABLE MOISTURE/CORROSION PROTECTION.
4. REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DRAWINGS.
5. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706.
6. CLEAR CONCRETE COVERAGE IS AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#6 OR LARGER	2"
#5 AND SMALLER	1-1/2"
COLUMNS (TO TIES)	1-1/2"
BEAMS (TO STIRRUPS)	1-1/2"
FLAT SLABS	3/4"
WALLS	SEE SCHEDULE AND OR DETAILS
ALL OTHER PER LATEST EDITION OF ACI 318	

STRUCTURAL STEEL

1. THE LABOR, MATERIALS AND EXECUTION REQUIRED FOR ALL CONCRETE WORK AS INDICATED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THOSE APPLICABLE PORTIONS OF CHAPTER 22 OF THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE.
2. STRUCTURAL STEEL NOT ENCASED IN CONCRETE SHALL BE SHOP PAINTED WITH TNEMEC99 METAL PRIMER OR APPROVED EQUIVALENT.
3. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. THIS INCLUDES EXPANSION/ADHESIVE ANCHORS. BOLTED CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. UNLESS NOTED OTHERWISE ALL WELDS PER THE LATEST EDITIONS OF THE AWS STANDARDS SHALL CONFORM TO AISC SPECIFICATIONS. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS.
5. CONTRACTOR IS PERMITTED TO CUT AND WELD ANTENNA SUPPORT ASSEMBLY ARMS AS NECESSARY TO MEET THE LENGTH REQUIREMENTS IN THE FIELD. WELDS SHALL CONSIST OF A 3/16" FILLET ALL THE WAY AROUND FOR 1/4" THICK STEEL OR LESS AND 3/8" FILLET WELD FOR STEEL 1/2" THICK OR LESS. CONTRACTOR SHALL RESTORE CORROSION BARRIER WITH AN APPROVED PAINT IN ACCORDANCE WITH BS 729-1971 AND PREN 1029."

STRUCTURAL NOTES (CONTINUATION)

6. MATERIAL CONFORMANCE:
   A. WIDE FLANGE STEEL SECTIONS PER ASTM A572 OR A992 WITH Fy = 50 KSI
   B. PIPES SECTIONS PER ASTM A501 WITH Fy = 36 KSI
   C. TUBE STEEL SECTIONS PER ASTM A500 WITH Fy = 46 KSI
   D. COLD FORMED STEEL PER ASTM A653 WITH Fy = 50 KSI
   E. WELDING ELECTRODES PER AWS CODE, E70XX UNLESS NOTED OTHERWISE ON PLANS
   F. ALL OTHER MISCELLANEOUS STEEL SHALL BE ASTM A36 WITH Fy = 36 KSI UNLESS NOTED OTHERWISE ON THE PLANS

ADHESIVE / MECHANICAL ANCHORS

1. ALL POST-INSTALLED ANCHORS SHALL BE PER SIMPSON OR HILTI MANUFACTURING AS INDICATED ON THE PLANS.
2. MECHANICAL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:
   FOR SIMPSON STRONG BOLT 2 ANCHORS, INSTALLATION SHALL COMPLY WITH ICC-ES ESR-3037 AND LARR 25891 FOR ANCHORAGE TO CONCRETE, IAPMO ER-240 AND LARR 25936 FOR ANCHORAGE TO MASONRY.
   FOR HILTI KWIK BOLT ANCHORS, INSTALLATION SHALL COMPLY WITH ICC-ES ESR-1917 AND LARR 25701 FOR ANCHORAGE TO CONCRETE.

   ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:
   FOR SIMPSON SET-XP EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC-ES ESR-2508 AND LARR 25744 FOR ANCHORAGE TO CONCRETE, IAPMO UES ER-265 AND LARR 25965 FOR ANCHORAGE TO MASONRY.
   FOR HILTI HIT-HY 200 EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC ESR-3187 AND LARR 25964 FOR ANCHORAGE TO CONCRETE.
3. ALLOW A MINIMUM OF 72 HOURS AFTER NEW CONCRETE IS PLACED PRIOR TO LOCATING MECHANICAL OR ADHESIVE ANCHORS. ALL MECHANICAL/ADHESIVE ANCHORS REQUIRE SPECIAL STRUCTURAL INSPECTION PER THE BUILDING CODE.

MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT, GRADE N WITH Fm = 1500 PSI.
2. MORTAR TYPE S, Fm = 1800 PSI
3. PROVIDE EXPANSION JOINTS IN MASONRY WALLS EVERY 24'-0" O.C.
4. VERTICAL REINFORCING SHALL BE 1 #5 VERTICAL IN CENTER OF GROUTED CELL CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS NOTED OTHERWISE ON THE PLANS. TIE AT 8'-0" O.C. VERTICALLY WITH SINGLE WIRE LOOP TIE BY AA WIRE PRODUCTS COMPANY OR EQUIALENT. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.
5. HORIZONTAL REINFORCING SHALL CONSIST OF 2 #5 CONTINUOUS AT ELEVATED FRAMING ASSEMBLIES. 1 #5 CONTINUOUS AT TOP OF PARAPETS AND FREESTANDING WALLS. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINTS. INSTALL BENT BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. STANDARD WEIGHT (NO. 9 GAGE WIRE) DUR-O-WALL OR DUR-O-WIRE (OR EQUIVALENT) LADDER TYPE JOINT REINFORCING AT 16" O.C. LAP LADDER TYPE JOINT REINFORCING 12" MINIMUM.
6. LAP SPLICES FOR VERTICAL AND HORIZONTAL REINFORCING SHALL BE PER TYPICAL DETAILS. DO NOT SPLICE WITHIN 8'-0" OF CONTROL JOINTS.

WOOD

1. IN STUD WALLS, UNLESS NOTED OTHERWISE, INSTALL DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS AND AT ISOLATED BEARING POINTS OF FRAMING MEMBERS ABOVE. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS.
2. SAWN LUMBER FRAMING SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WWPA OR THE WCLIB. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE MINIMUM PROPERTIES WHICH MEET OR EXCEED THE FOLLOWING WOOD TYPES:

MEMBER	WOOD TYPE
JOISTS	
2X4 (PANELIZED)	D.F. SELECT
2X4	D.F. #2
2X6 OR LARGER	D.F. #2
BEAMS	
WIDTH OF 4" OR LESS	D.F. #1
WIDTH GREATER THAN 4"	D.F. SELECT
LEDGERS AND TOP PLATES	D.F.#2
STUDS	
2X4	D.F. STD
2X6 OR LARGER	D.F. #2
POSTS	
4X4	D.F. #2
6X6 OR LARGER	D.F. SELECT

3. GLU-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2,400 PSI, Fy = 240 PSI, E = 1,800,000 PSI. BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITO STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. IN THE ABSENCE OF CAMBER SHOWN ON THE PLAN, PROVIDE STANDARD CAMBER. STANDARD CAMBER IS DEFINED AS A RADIUS OF CURVATURE EQUAL TO 2500 FEET.
4. PLYWOOD SHALL BE APA "CDX" RATED SHEATHING OR BETTER AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. (ON ROOFS WHERE PLYWOOD IS LAYED UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD). STAGGER JOINTS. ALL NAILING SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE.

USE	THICKNESS	SPAN/INDEX RATIO	ATTACHMENT EDGE	INTERMEDIATE
ROOF	5/8"	32/16	10d@6" O.C.	10d@12" O.C.
ROOF	3/4"	40/20	10d@6" O.C.	10d@12" O.C.
FLOOR	3/4"	40/20	SCREWS@6" O.C.	SCREWS@12" O.C.
SHEAR WALL	3/8"	24/0	8d@6" O.C.	8d@12" O.C.

FIBER REINFORCED PLASTIC (FRP)

1. ALL CONNECTIONS SHALL BE $\frac{3}{8}$" DIAMETER FIBER BOLTS, U.N.O. (PULTEX 1625 OR EQUIVALENT) AND ALL HOLES UNLESS NOTED OTHERWISE SHALL BE PUNCHED OR DRILLED $\frac{1}{16}$" LARGER IN DIAMETER THAN THE BOLTS THEY RECEIVE.
2. ALL CONTACT SURFACES OF FRP STRUCTURAL SHAPES AND/OR HYBRID POLYMER COMPOSITE ARCHITECTURAL PANELS SHALL BE BONDED PER MANUFACTURER'S RECOMMENDATIONS. USE $\frac{1}{4}$" FRP SCREEN SKIN AND EPOXY GLUE SKIN TO FRAMING MEMBERS WITH $\frac{3}{8}$" DIAMETER FIBER BOLTS AT 24" O.C. EIFS SHALL MATCH BUILDING AND BE ATTACHED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL LIQUID NAILS MULTI-PURPOSE CONSTRUCTION ADHESIVE SHALL BE PER MACCO OR APPROVED EQUIVALENT. BONDING SURFACE SHALL BE CAREFULLY PREPARED TO ENSURE A GOOD ADHESIVE BOND BY WIPING THE SURFACE WITH A STERILIZING SOLVENT, REMOVING SURFACE GLOSS BY LIGHT SANDING, APPLY ADHESIVE, AND FASTEN OR CLAMP BONDING SURFACES UNTIL CURED.
4. ALL EXPOSED JOINTS AT ARCHITECTURAL PANELS AHD SHAPES (EDGES, CORNERS, ETC.) SHALL BE CAULKED WITH AN APPROVED FLEXIBLE POLYURETHANE SEALANT/CAULK.
5. ALL OPEN ENDS OR GAPS OF SCREEN FRAMING WHERE WATER SUSCEPTIBLE TO WATER INFILTRATION SHALL BE WEATHER CAPPED OR SEALED BY THE GENERAL CONTRACTOR.
6. ALL FRP MATERIAL TO BE LOCATED IN THE CITY OF LOS ANGELES SHALL CONFORM TO LARR 25536.
7. ALL FRP MATERIAL SHALL CONFORM TO ASTM D-638, 695, 790, 2344, 732, ADDITIONALLY WITH BOLTS CONFORMING TO ASTM B-565. ALL FRP MATERIAL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES FOR ALLOWABLE STRESS DESIGN (BASED ON A SAFETY FACTOR OF 7). VALUES ARE REPRESENTED IN KSI.

MECHANICAL PROPERTY	LENGTHWISE	CROSSWISE
TENSILE STRESS Ft	4.3	1.0
COMPRESSIVE STRESS Fc	4.3	2.1
FLEXURAL STRESS Fy	4.3	1.4
MODULUS OF ELASTICITY E	2.8X10^6	--
SHEAR Fv	0.6	--
BOLT SHEAR	1.2	--

SPECIAL STRUCTURAL INSPECTION - STRUCTURAL ONLY

1. SPECIAL STRUCTURAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. SPECIAL STRUCTURAL INSPECTION IS REQUIRED FOR THE FOLLOWING:

VERIFICATION AND INSPECTION	INSPECTION TYPE CONTINUOUS	INSPECTION TYPE PERIODIC	REFERENCE STANDARD
STEEL CONSTRUCTION			
WELDING			
AT FLOOR AND ROOF DECK WELDS		X	AWS D1.3
FOR REINFORCING STEEL		X	AWS D1.4, ACI 318
FOR STRUCTURAL STEEL		X	
CONCRETE CONSTRUCTION			
REINFORCING STEEL		X	ACI 318: 3.5, 7.1-7.7
POST-INSTALLED ANCHORS		X	ACI 318: 3.8.6, 8.1.3, 21.2.8
USE OF REQUIRED DESIGN MIX		X	ACI 318: CHAPER 4, 5.2-5.4
MASONRY CONSTRUCTION			TMS 402 AND 602/ ACI 530/ASCE 5, 6
REINFORCING STEEL		X	
GROUT PLACEMENT	X		
CLEANOUTS PRIOR TO CLOSURE		X	
POST-INSTALLED ANCHORS	X		LARR 25891, LARR 25701 LARR 25965, LARR 25964

2. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN THAT IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS AND ALL DEVIATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION.
3. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. INSPECTOR IS NOT AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
5. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION.

T-Mobile

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN

1600 OAK KNOLL ROAD,
UKIAH, CA 96482
MENDOCINO COUNTY

CURRENT ISSUE DATE:

03/22/19

ISSUED FOR:

CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
A	03/22/19	90% CD	L.F.

PLANS PREPARED BY:

Synergy
a division of advantage engineers
7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:

Synergy
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DRAWN BY:	CHK.:	APV.:
L.F.	AB	AB

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENKANT
C74190
EXP 6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

GENERAL STRUCTURAL NOTES

SHEET NUMBER: T-4

REVISION: A

SF40848A

NOTE:
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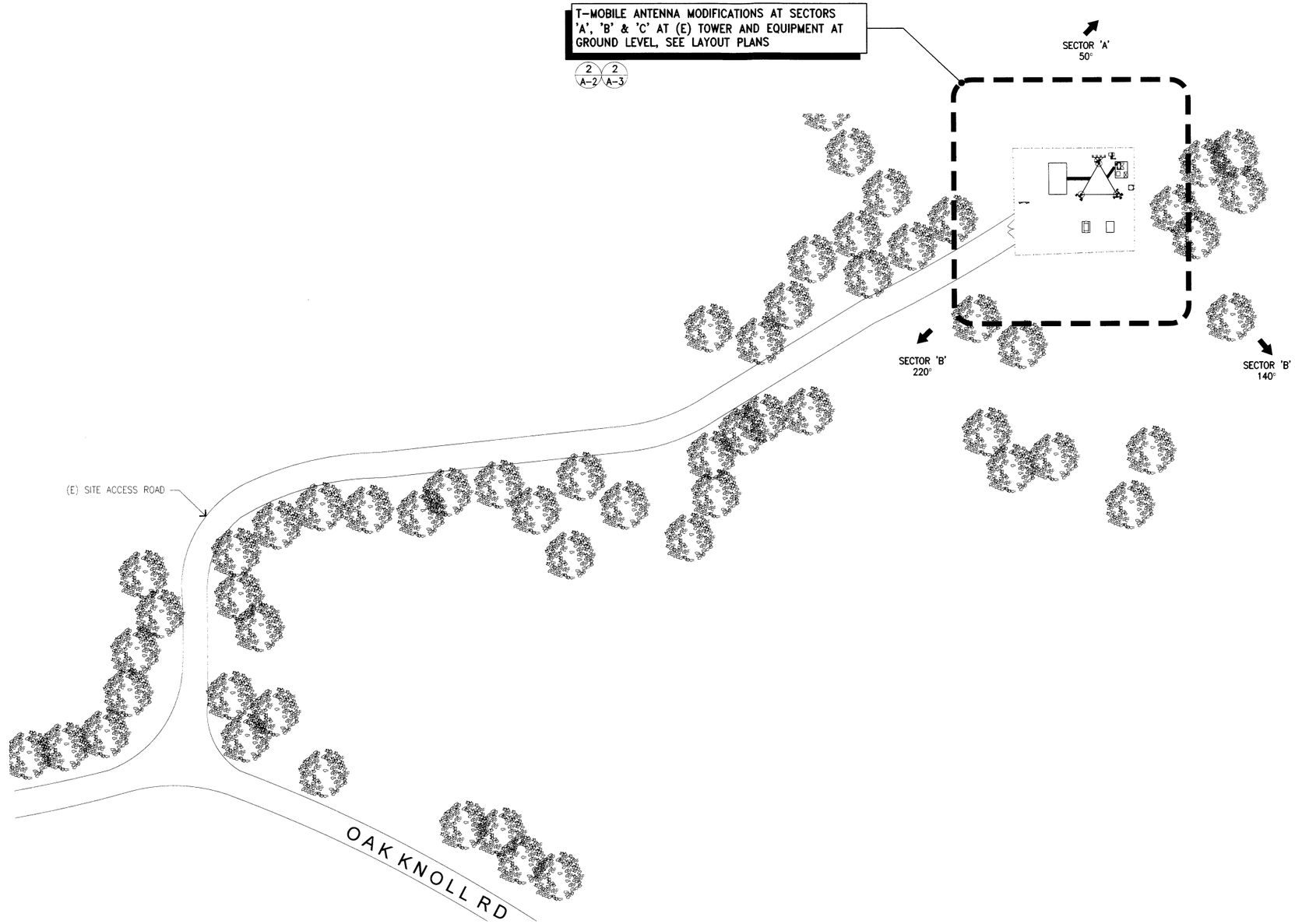
T-MOBILE ANTENNA MODIFICATIONS AT SECTORS 'A', 'B' & 'C' AT (E) TOWER AND EQUIPMENT AT GROUND LEVEL, SEE LAYOUT PLANS

2/A-2 2/A-3



N

OVERALL SITE PLAN

SCALE: 1/32"=1'-0" 0 10' 20' 50'

1

T-Mobile

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

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UKIAH, CA 96482
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REGISTERED PROFESSIONAL ENGINEER
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C74190
EXP. 6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

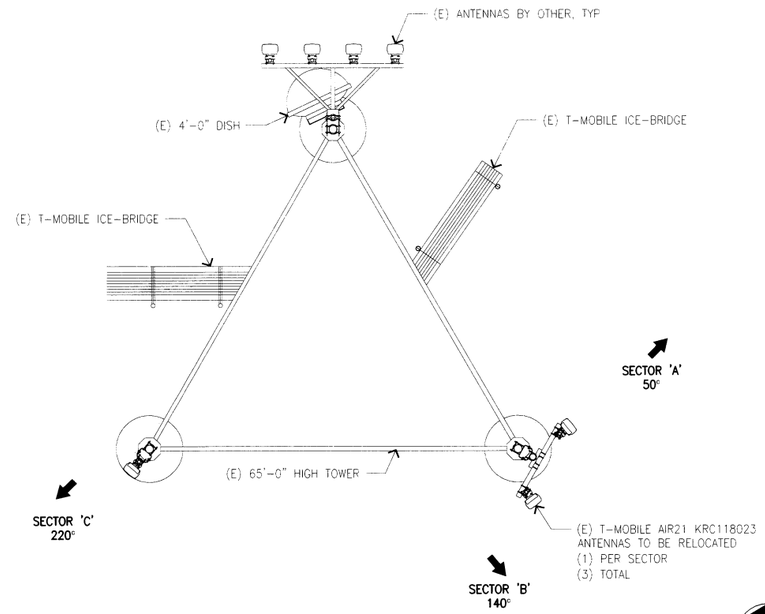
OVERALL SITE PLAN

SHEET NUMBER: A-1

REVISION: A

SF40848A

EXISTING ANTENNA SCHEDULE														
SECTOR	AZIMUTH	RAD CENTER	ANTENNA			RRU/TMA/SMART BIAS T		COAX JUMPER	FIBER JUMPER	COAX CABLE		POWER		
			MODEL NO.	SIZE	QTY.	TYPE	QTY.	QTY.	QTY.	SIZE & TYPE	QTY.	SIZE & TYPE	QTY.
SECTOR "A"	50°	±40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	2	4	2	–	–	–	–
							–	–	–	–	–		
							–	–	–	–	–		
SECTOR "B"	140°	±40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	2	4	2	–	–	–	–
							–	–	–	–	–		
							–	–	–	–	–		
SECTOR "C"	220°	±40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	2	4	2	–	–	–	–
							–	–	–	–	–		
							–	–	–	–	–		
MW DISH	–	–	–	–	–		–	–	–	–	–		
TOTAL					3		3	12	6		–		6

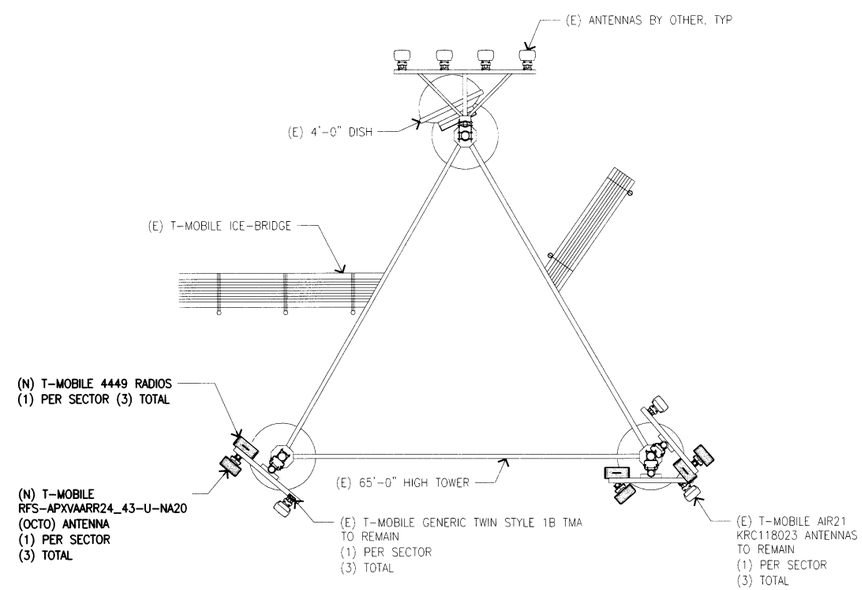


(E) ANTENNA LAYOUT PLAN

SCALE: 1/4"=1'-0" 0 1' 2' 4' 8'

1

NEW ANTENNA SCHEDULE														
SECTOR	AZIMUTH	RAD CENTER	ANTENNA			RRU/TMA/SMART BIAS T		COAX JUMPER	FIBER JUMPER	HCS/COAX CABLE		POWER		
			MODEL NO.	SIZE	QTY.	TYPE	QTY.	QTY.	QTY.	SIZE & TYPE	QTY.	SIZE & TYPE	QTY.
SECTOR "A"	50°	40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	1	4	2	7/8" COAX	4	–	–
			RFS-APXVAARR24_43-U-NA20 (OCTO)	95.9"	1	RADIO 444 B71 + B12	1	–	–				
								–	–				
SECTOR "B"	140°	40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	1	4	2	7/8" COAX	4	–	–
			RFS-APXVAARR24_43-U-NA20 (OCTO)	95.9"	1	RADIO 444 B71 + B12	1	–	–				
								–	–				
SECTOR "C"	220°	40'-0"	AIR21 KRC118023-1_B2A_B4P (QUAD)	56"	1	GENERIC TWIN STYLE 1B - AWS	1	4	2	7/8" COAX	4	–	–
			RFS-APXVAARR24_43-U-NA20 (OCTO)	95.9"	1	RADIO 444 B71 + B12	1	–	–				
								–	–				
MW DISH	–	–	–	–	–		–	–	–	–	–	–	–
TOTAL					6		6	12	6		12		



(N) ANTENNA LAYOUT PLAN

SCALE: 1/4"=1'-0" 0 1' 2' 4' 8'

2

T-Mobile

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN

1600 OAK KNOLL ROAD,
UKIAH, CA 96482
MENDOCINO COUNTY

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A	03/22/19	90% CD	L.F.

PLANS PREPARED BY:

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENKANT
C74190
EXP. 6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

ANTENNA LAYOUT PLANS
AND
ANTENNA SCHEDULE

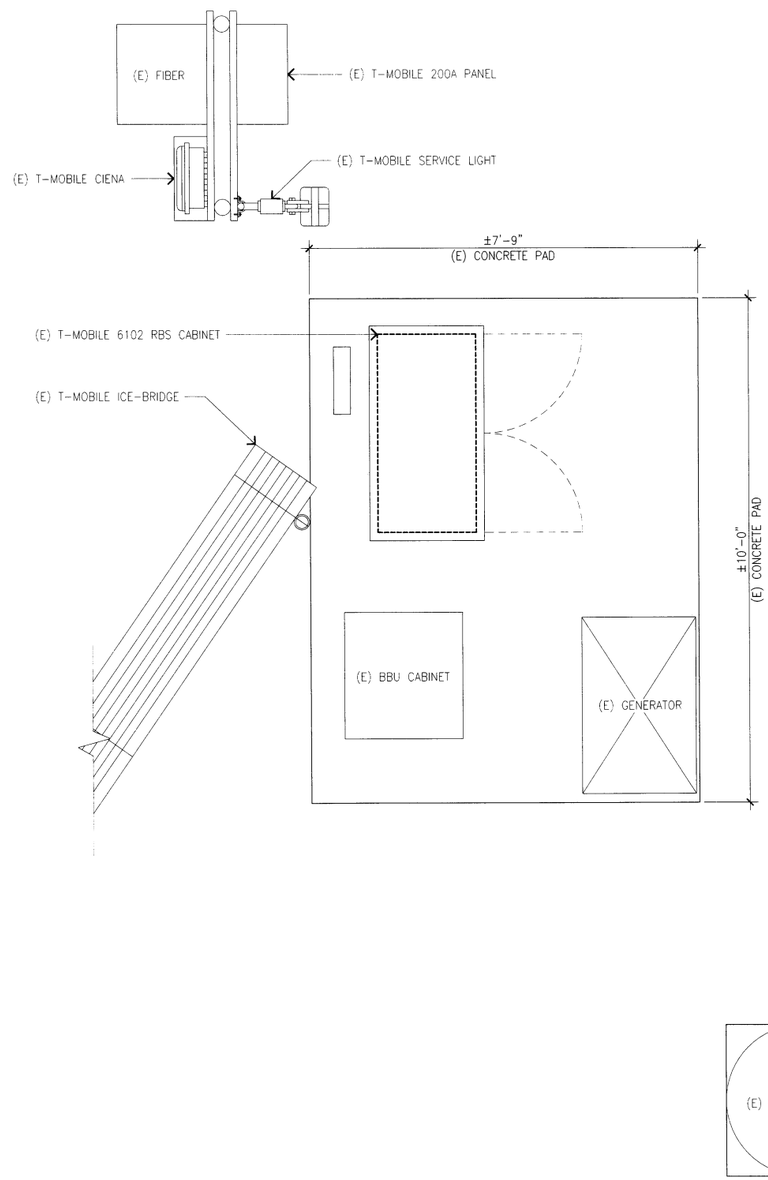
SHEET NUMBER: A-2

REVISION: A

SF40848A

EQUIPMENT NOTES:

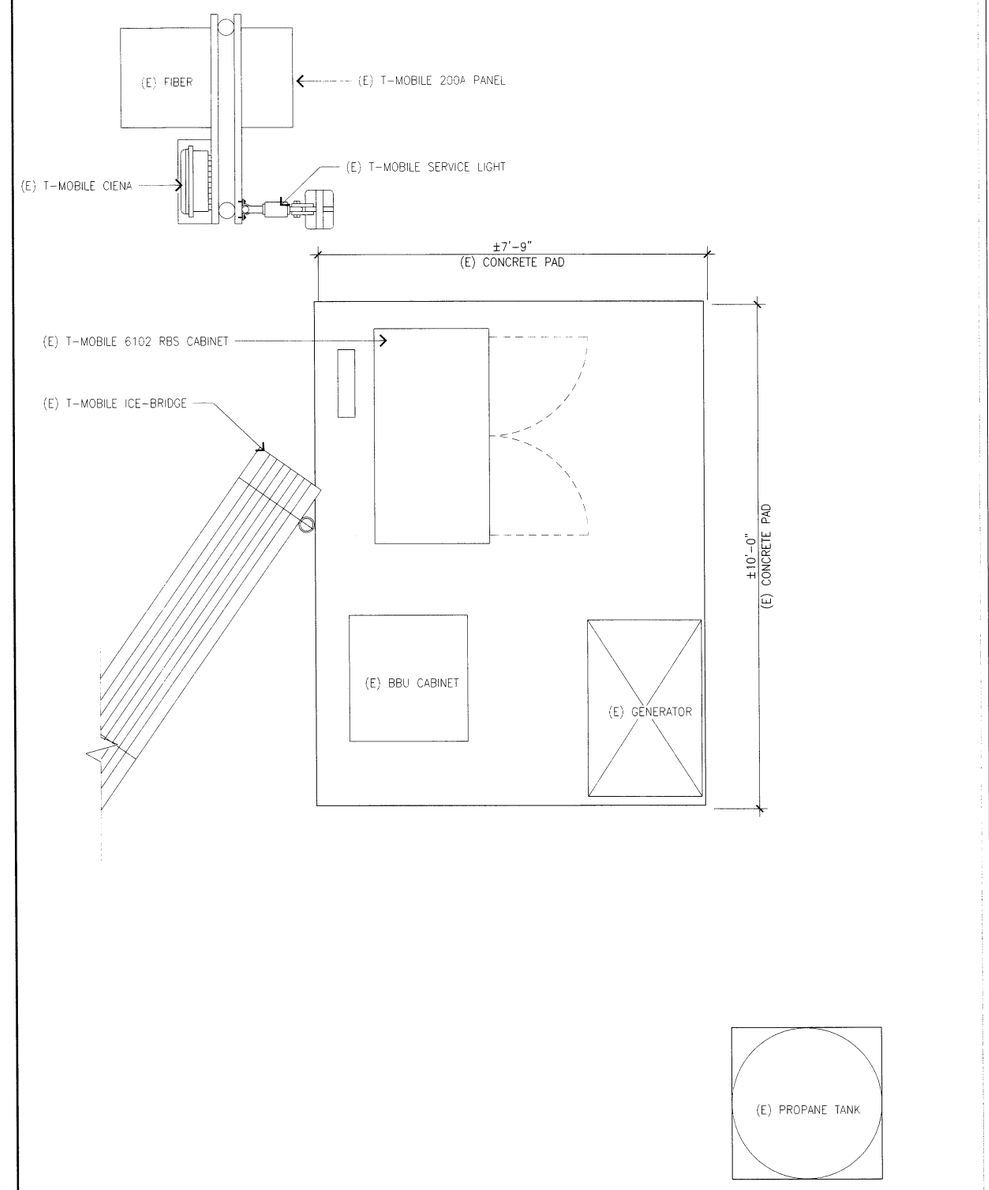
1. (6) RUS01 B4 INSIDE (E) RBS 6102
2. (3) RRUS11 B12 ON (E) GROUND MOUNT



(N) EQUIPMENT LAYOUT PLAN

SCALE: 3/4"=1'-0" 0 1' 2' 3'

2



(E) EQUIPMENT LAYOUT PLAN

SCALE: 3/4"=1'-0" 0 1' 2' 3'

1

T
T-Mobile
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

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CIVIL
STATE OF CALIFORNIA

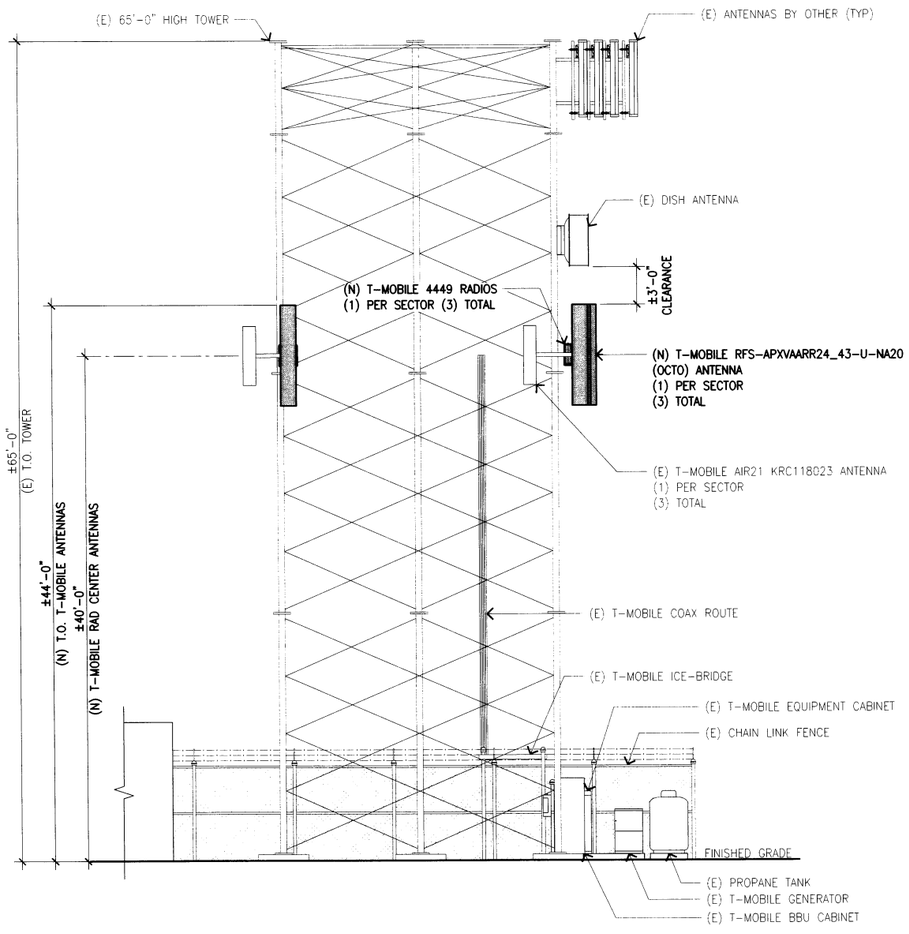
SHEET TITLE:

EQUIPMENT
LAYOUT PLAN

SHEET NUMBER: A-3

REVISION: A

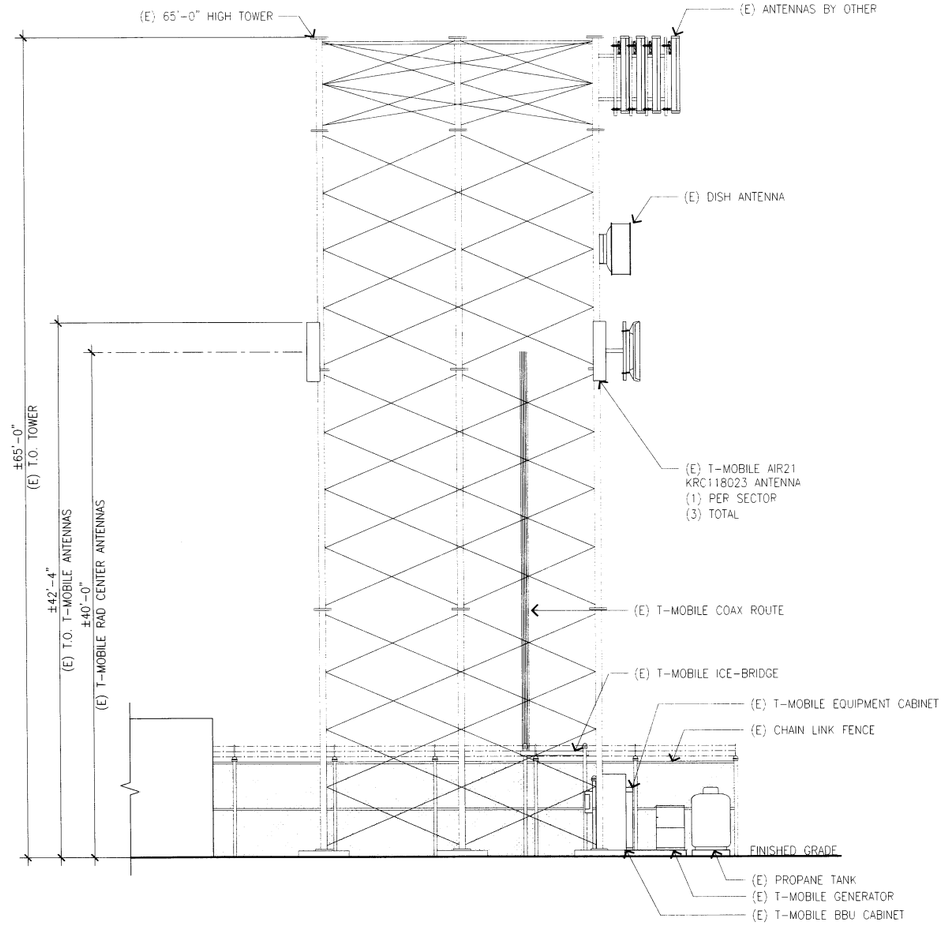
SF40848A



(N) SOUTH ELEVATION

SCALE: 3/16"=1'-0" 0 1' 3' 5' 10'

2



(E) SOUTH ELEVATION

SCALE: 3/16"=1'-0" 0 1' 3' 5' 10'

1

T

Stay Together

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN

1600 OAK KNOLL ROAD,
UKIAH, CA 96482
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DRAWN BY:	CHK.:	APV.:
L.F.	AB	AB

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
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CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

ELEVATION

SHEET NUMBER: A-4

REVISION: A

SF40848A

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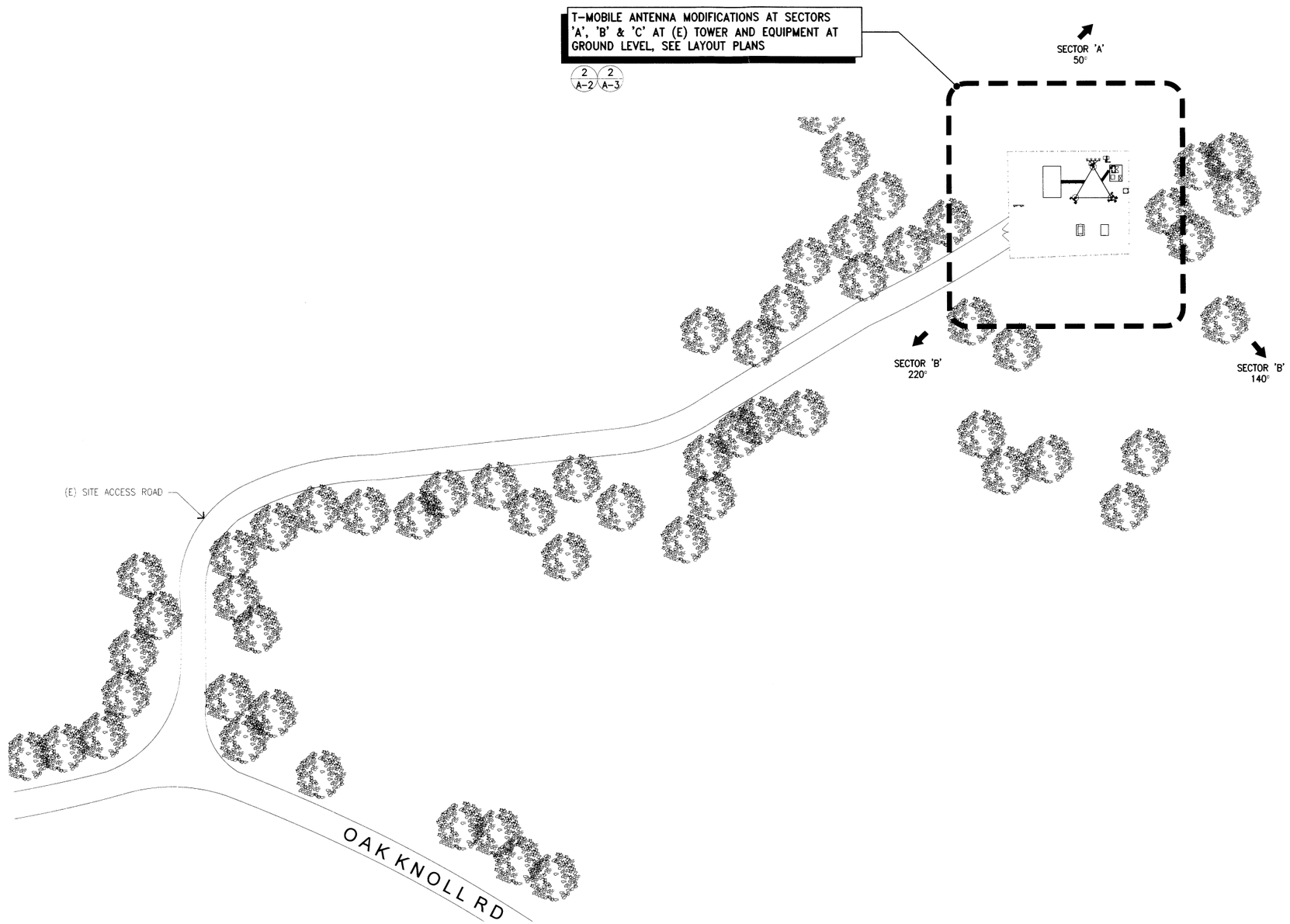

OVERALL SITE PLAN

SCALE: 1/32"=1'-0" 0 10' 20' 50'

1

T-Mobile

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN

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L.F.	AB	AB

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENKANT
C74190
EXP.6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: A-1

REVISION: A

SF40848A

NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
2. METAL RACEWAY SHALL NOT BE USED AS THE CEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
3. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
4. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
5. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
6. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
7. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
8. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE W/ THE CEC.
9. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

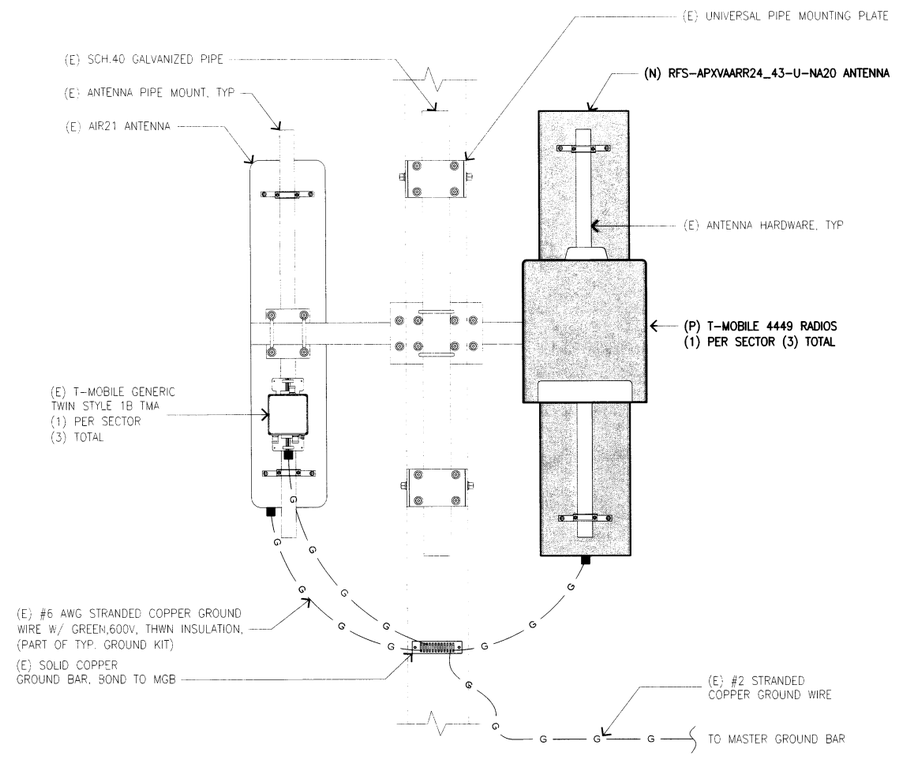
SYMBOLS:

- GROUND TEST WELL
- GROUND ROD
- COMPRESSION / MECHANICAL TYPE CONNECTION
- CADWELD TYPE CONNECTION
- —G— GROUND WIRE
- GROUND BAR

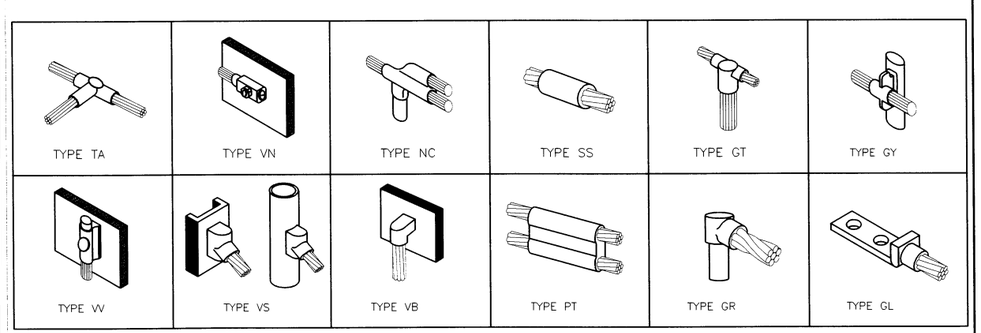
6

7 NOTES AND SYMBOLS 4

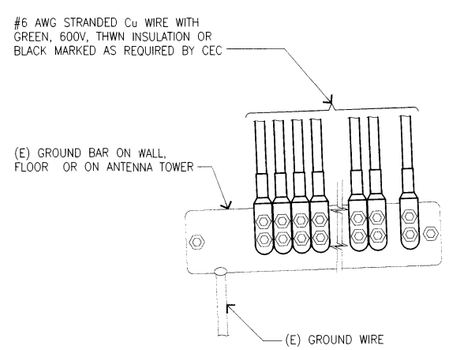
NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND.
2. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
3. TYPICAL FACTORY MADE JUMPERS ONLY.



TYPICAL ANTENNA GROUNDING SCALE: N.T.S. 1



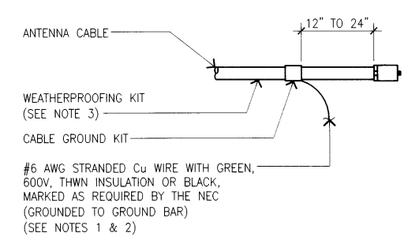
TYPICAL CADWELD CONNECTIONS SCALE: N.T.S. 5



NOTES:

1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG
2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT

GROUND CONDUCTOR TO GROUND BAR 3



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHERPROOFING SHALL BE (TYPE AND PART NUMBER) AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER AND APPROVED BY CONTRACTOR.

GROUNDING KIT 2

T Mobile
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

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(L600)
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MENDOCINO COUNTY

CURRENT ISSUE DATE: 03/22/19

ISSUED FOR: CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
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PLANS PREPARED BY:
Synergy a division of advantage engineers
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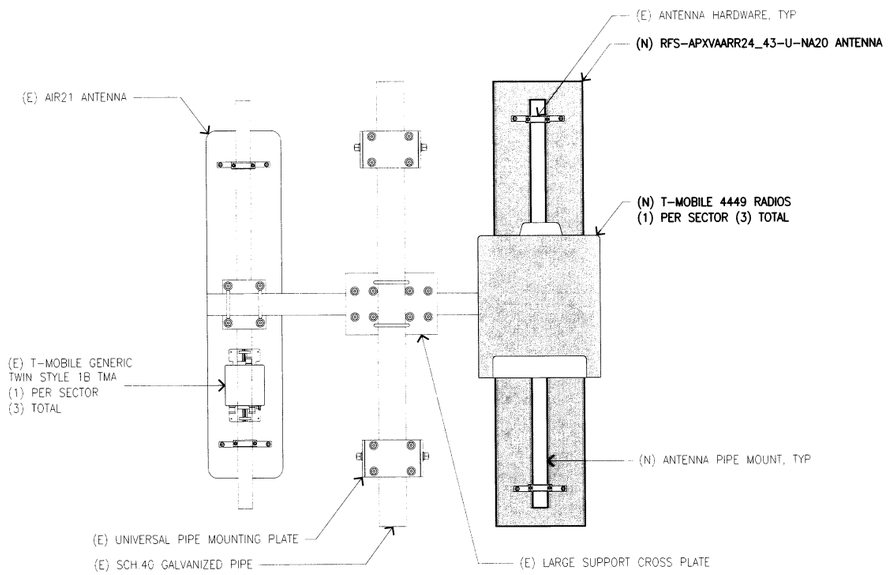
DRAWN BY:	CHK.:	APV.:
L.F.	AB	AB

LICENSURE:
REGISTERED PROFESSIONAL ENGINEER ADAM BRONNENKANT C74190 EXP 6/30/19 CIVIL STATE OF CALIFORNIA

SHEET TITLE: GROUNDING NOTES AND DETAILS

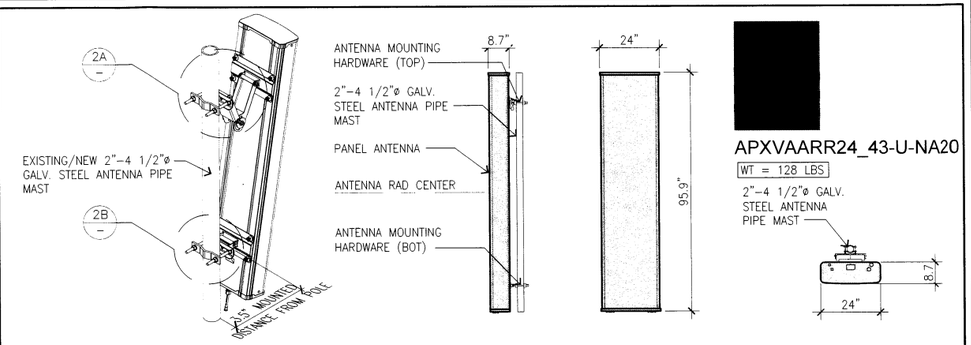
SHEET NUMBER: G-1 REVISION: A

SF40848A



TYPICAL ANTENNA MOUNT

SCALE: N.T.S. | 3



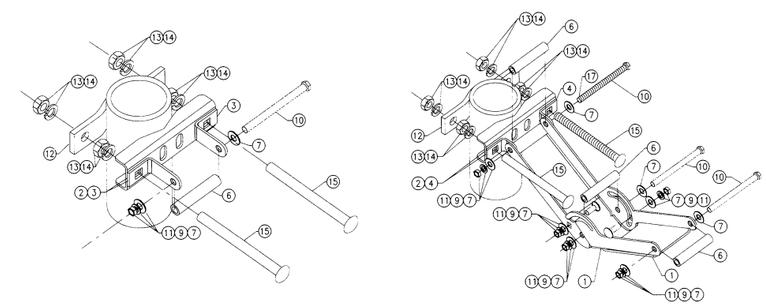
ELECTRICAL SPECIFICATIONS		
IMPENDANCE	OHM	50.0
POLARIZATION	DEG	±45°
MECHANICAL SPECIFICATIONS		
DIMENSIONS – H x W x D	MM (IN)	2436 x 609 x 222 (95.9 x 24 x 8.7)
WEIGHT (ANTENNA ONLY)	KG (LB)	58 (128)
WEIGHT W/O MTG HARDWARE	KG (LB)	11.5 (25.3)
SHIPING WEIGHT	KG (LB)	80 (176)
CONNECTOR TYPE		8 X 4.3-10 FEMALE AT BOTTOM + 6 AISG CONNECTORS (3MALE, 3 FEMALE)
ADJUSTMENT MECHANISM		INTEGRATED RET SOLUTION AISG COMPLIANT (FIELD REPLACEABLE) + MANUAL OVERRIDE + EXTERNAL TILT INDICATOR
MOUNTING HARDWARE MATERIAL		GALVANIZED STEEL
RADOME MATERIAL / COLOR		FIBER GLASS / LIGHT GREY RAL7035
TESTING AND EVIROMENTAL		
TEMPERATURE RANGE	°C (°F)	-40 TO 60 (-40 TO 140)
LIGHTNING PROTECTION		IEC 61000-4-5
SURVIVAL/RATE WIND VELOCITY	KM/H	241 (150)
ENVOROMENTAL		ETSI 300-019-2-4 CLASS 4.1E

APXVAARR24_43-U-NA20 ANTENNA SPECIFICATION

SCALE: N.T.S. | 1

PARTS LIST

ITEM #	QUANTITY	PART NUMBER	DESCRIPTION
1	2	601257	ANGLE ARM
2	2	601256	MOUNTING CLAMP
3	2	601235-1	BRACKET
4	2	601235-2	BRACKET
5	1	601258	LABEL, ANGLE
6	4	600679-3	SPACER TUBE
7	14	100525-24	ME FLAT WASHER (STAINLESS STEEL)
8	2	600419-8	M8x1.25x25mm LARGE CARRIAGE BOLT (STAINLESS STEEL)
9	6	6/1/7395	M8 LOCK WASHER (STAINLESS STEEL)
10	4	600419-10	M8x1.25x110mm LARGE HEX HEAD SCREW (STAINLESS STEEL)
11	6	204001-15	M8x1.25 HEX NUT (STAINLESS STEEL)
12	2	225244	CLAMP PLATE
13	8	600419-24	LARGE LOCK WASHER (STAINLESS STEEL)
14	8	204001-21	M12x1.75 HEX NUT (STAINLESS STEEL)
15	4	600419-12	M12x1.75x150mm LARGE CARRIAGE BOLT (STAINLESS STEEL)
17	1	601584	MOLYBDENUM DISULFIDE GREASE



B BOTTOM BRACKET

A TOP BRACKET

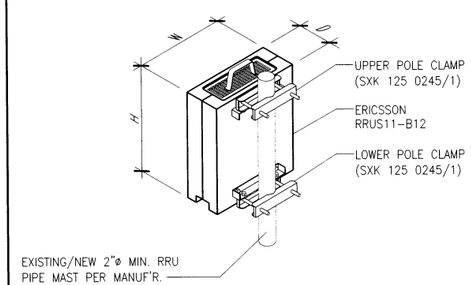
ANTENNA BRACKET ATTACHMENT DETAIL

SCALE: N.T.S. | 2

DESIGN CRITERIA:

1. WIND DESIGN DATA
   - ULTIMATE WIND VELOCITY = 110 MPH
   - EXPOSURE = C
   - INTERNAL PRESSURE COEFFICIENT = 0.18
2. SEISMIC DESIGN DATA
   - SITE CLASS = D
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR (I) = 1.0
   - MAPPED SPECTRAL RESPONSES Ss = 1.5 S1 = 0.6 Sds = 1.0
   - SEISMIC DESIGN CATEGORY = D
   - RESPONSE MODIFICATION (Rp) = 2.5
   - AMPLIFICATION FACTOR (ap) = 1.0
   - ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

ERICSSON RRUS11 B12
DIMENSION, HxWxD : 19.7" x 17.0" x 7.2"
POWER CONSUMPTION: 2 x 40 WATTS
TOTAL WEIGHT: 50 lbs
TEMPERATURE: -40 TO 55° C
MOUNTING HARDWARE: SXK 125 0245/1 4.8 lbs



RRU11-B12 MOUNTING DETAIL

SCALE: N.T.S. | 4

T

1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:

(L600)
SF40848A
US CELL-SPANISH MTN
1600 OAK KNOLL ROAD,
UKIAH, CA 96482
MENDOCINO COUNTY

CURRENT ISSUE DATE: 03/22/19

ISSUED FOR: CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
A	03/22/19	90% CD	L.F.

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
ADAM BRONNENCANT
C74190
EXP 6/30/19
CIVIL
STATE OF CALIFORNIA

SHEET TITLE: DETAILS

SHEET NUMBER: D-1

REVISION: A

SF40848A

NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
2. METAL RACEWAY SHALL NOT BE USED AS THE CEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
3. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
4. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
5. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
6. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
7. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
8. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE W/ THE CEC.
9. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

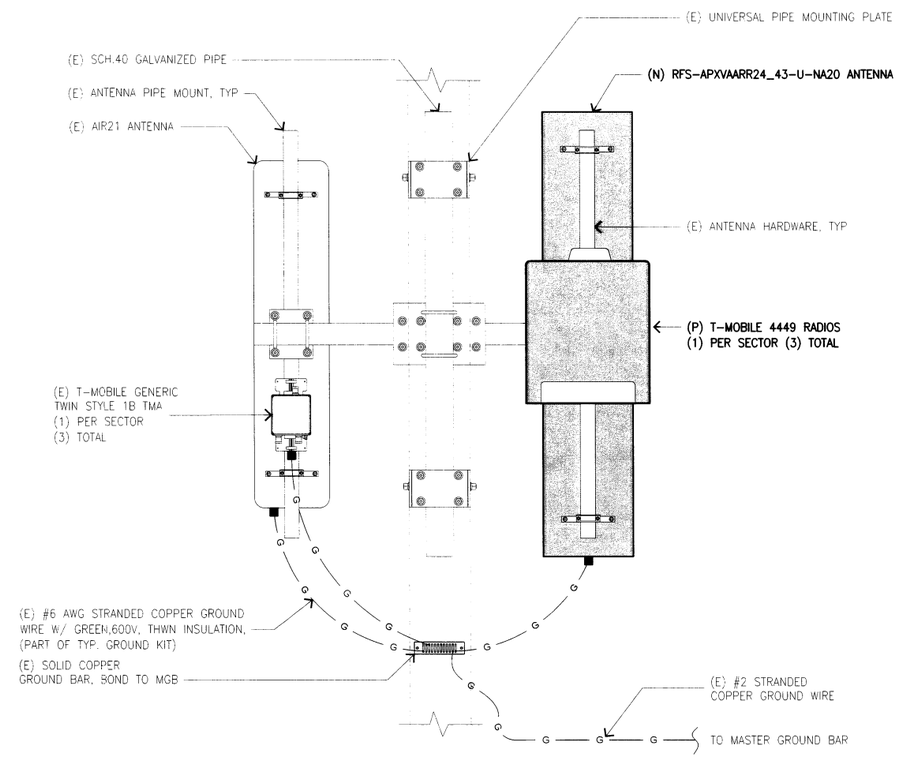
SYMBOLS:

- GROUND TEST WELL
- GROUND ROD
- COMPRESSION / MECHANICAL TYPE CONNECTION
- CADWELD TYPE CONNECTION
- —G— GROUND WIRE
- GROUND BAR

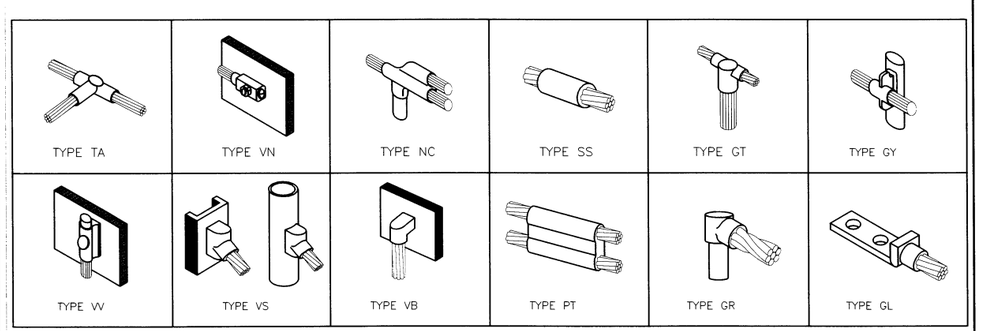
6

7 NOTES AND SYMBOLS 4

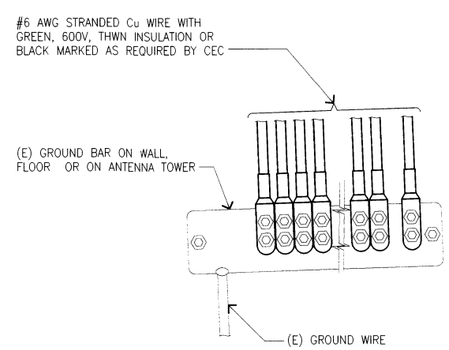
NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND.
2. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
3. TYPICAL FACTORY MADE JUMPERS ONLY.



TYPICAL ANTENNA GROUNDING SCALE: N.T.S. 1



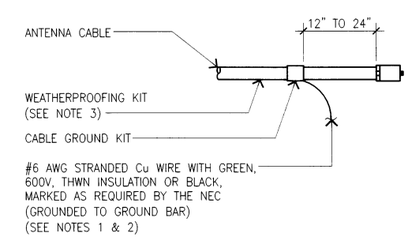
TYPICAL CADWELD CONNECTIONS SCALE: N.T.S. 5



NOTES:

1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG
2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT

GROUND CONDUCTOR TO GROUND BAR 3



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHERPROOFING SHALL BE (TYPE AND PART NUMBER) AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER AND APPROVED BY CONTRACTOR.

GROUNDING KIT 2

T-Mobile
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CONCORD, CA 94520

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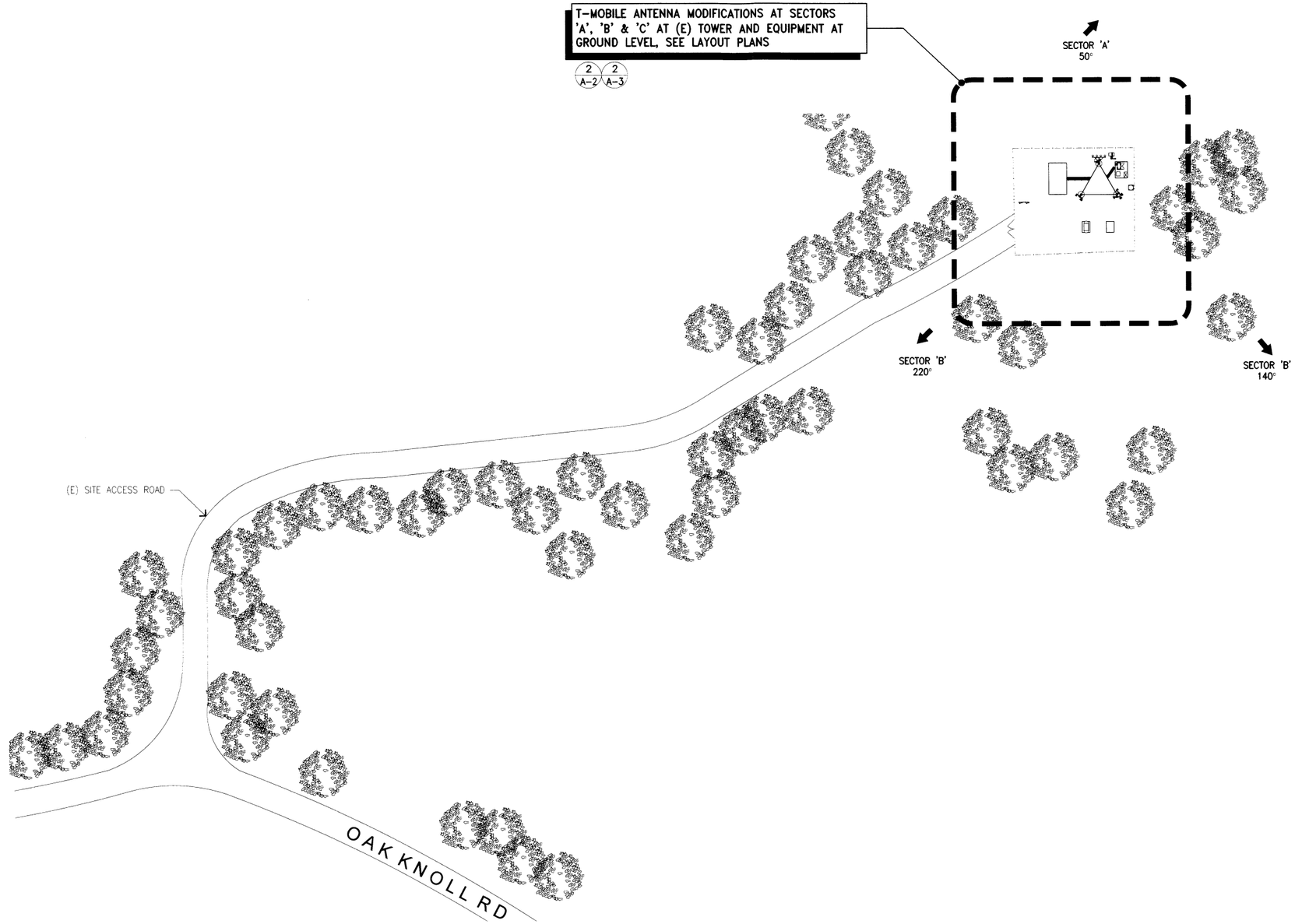
T-MOBILE ANTENNA MODIFICATIONS AT SECTORS 'A', 'B' & 'C' AT (E) TOWER AND EQUIPMENT AT GROUND LEVEL, SEE LAYOUT PLANS

2/A-2 2/A-3



N

OVERALL SITE PLAN

SCALE: 1/32"=1'-0" 0 10' 20' 50'

1

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CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: A-1

REVISION: A

SF40848A