



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
FB PHONE: 707-964-5379
FB FAX: 707-961-2427
pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

April 30, 2024

Department of Transportation
Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor
Air Quality Management

Department of Forestry/ CalFire
-Land Use
Department of Fish and Wildlife
Cloverdale Rancheria

Potter Valley Tribe
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Potter Valley Community Services

CASE#: AP\_2024-0016

DATE FILED: 3/18/2024

OWNER: VICTORIA TODD & JAMES GUNTLY

APPLICANT: S. WILSON FOR T-MOBILE

REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the replacement of six (6) existing antennas with six (6) new antennas, replacement of three (3) existing radios with six (6) new radios, removal of six (6) TMAs, removal of twelve (12) coaxial cables, installation of two (2) new cabinets, and other installation or removal of minor ancillary equipment.

LOCATION: 7.5± miles east of Calpella, on a private road 1.25± miles northeast of State Route 20, located at 6100 East Side Potter Valley Road, Potter Valley; (APN: 177-270-32).

SUPERVISORIAL DISTRICT: 1

STAFF PLANNER: LIAM CROWLEY

RESPONSE DUE DATE: May 14, 2024

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

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**LOCATION:** 7.5± miles east of Calpella, on a private road 1.25± miles northeast of State Route 20, located at 6100 East Side Potter Valley Road, Potter Valley; (APN: 177-270-32).

**APN/S:** 177-270-32

**PARCEL SIZE:** 160± Acres

**GENERAL PLAN:** Rangeland (RL:160)

**ZONING:** Rangeland (R-L)

**EXISTING USES:** Agricultural, Wireless Communication Facility

**DISTRICT:** 1

**RELATED CASES:** See below.

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	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
<b>NORTH:</b>	Rangeland (RL:160)	Rangeland (R-L)	160± Acres	Agricultural
<b>EAST:</b>	Rangeland (RL:160)	Rangeland (R-L)	160± Acres	Agricultural
<b>SOUTH:</b>	Public Lands (PL)	Public Facilities (P-F)	280± Acres	Vacant
<b>WEST:</b>	Public Lands (PL)	Public Facilities (P-F)	40± Acres	Vacant

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## REFERRAL AGENCIES

### LOCAL

- Air Quality Management District
- Assessor's Office
- Building Division (Ukiah)
- Department of Transportation (DOT)
- Environmental Health (EH)

- Potter Valley Community Services District

### STATE

- CALFIRE (Land Use)
- California Dept. of Fish & Wildlife

### TRIBAL

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

### **ADDITIONAL INFORMATION:** Related projects include the following:

**V 8-96:** Variance to height restrictions to authorize the construction of a 150 foot tall communications tower. Approved 12/05/1996.

**U 27-2003:** Use Permit to allow the addition of nine panel antennas (8 feet tall X 1 foot wide) to an existing 150 foot tall steel lattice tower. Approved 02/12/2004.

**UM 27-2003/2008:** Use Permit Modification to allow for the addition of a 6 foot diameter microwave dish at the 40 foot level of an existing 150 foot tall steel lattice tower. Approved 08/21/2008.

**UM 27-2003/2009:** Use Permit Modification to add three (3) panel antennas and one (1) microwave dish to an existing 150 foot tall tower and to place a battery backup power system, a GPS antenna and four (4) equipment cabinets within a 3,600± square foot leased area. Approved 07/16/2009.

**AP 9-2014:** Administrative Permit for AT&T Mobility to collocate twelve (12) panel antennas at the 105 foot center-line on an existing 150 foot tall U.S. Cellular self-support lattice tower; installation of twenty-one (21) remote radio units (RRUs); installation of new surge protector; installation of new cable ladder; installation of inner ducts to support fiber and power lines; entitlement rights for two (2) future 4 foot diameter microwave antennas at the 97 foot centerline; installation of three (3) radio equipment outdoor cabinets; installation of a new 50 KVA propane fueled back up power generator and new 499 gallon propane tank and new electrical service. Approved 05/14/2014.

**AP 28-2014:** Administrative Permit to relocate two (2) and add three (3) panel antennas at 125 feet and relocate one (1) microwave antenna at 133 feet on an existing 150 foot tall wireless communications tower. Approved 12/10/2014.

**AP\_2017-0007:** Administrative Permit for US Cellular antenna modifications to an existing tower to include: decommissioning and removal from site: (3) antennae KMW-AM-X-VW-18-65-OOT-RET, (6) 7/8" coaxial cable. Install the following: (6) antennae KMW-AM-X-CD-17-65-OOT-RET, (1) ¼" Hybrid cable, (1) 1" power cable, (6) FRLB remote radio heads, (2) Raycap surge protectors, (12) Kaelus combiners, 2 stackable FXCB remote radio heads. Approved 07/18/2017.

**AP\_2019-0089:** Administrative Permit to install six (6) Long Term Evolution (LTE) Panel Antennas, six (6) Remote Radio Head (RRH) units and associated fiber and power jumpers to an existing 150 foot tall self-supporting lattice tower. Approved 10/12/2021.

**UR\_2020-0005:** Renewal of previously Modified Use Permit UM 27-2003/2009 to continue operation of an existing telecommunications facility. There are no proposed changes to the existing 150 foot tall self-supporting lattice tower, no associated ground equipment or requests for any physical modifications to the facility. Approved 12/17/2020.

**AP\_2020-0043:** Administrative Permit to install one (1) Generac® 25KW diesel generator with tank on a concrete slab and one (1) automatic transfer switch inside existing chain link fence enclosure. Approved 01/21/2021.

**AP\_2022-0021:** Administrative Permit to remove six (6) existing antennas and replace with six (6) new antennas. Remove twelve (12) existing radios and replace with six (6) new radios. Install two (2) new equipment cabinets within existing lease area. Install two (2) new pipe "T" standoffs to align antennas. Approved 08/29/2022.

**STAFF PLANNER:** LIAM CROWLEY

**DATE:** 4/23/2024

## ENVIRONMENTAL DATA

### 1. MAC:

GIS

*None*

### 2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

*Very High*

### 3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

*State Responsibility Area (SRA)*

### 4. FARMLAND CLASSIFICATION:

GIS

*Grazing Land (G)*

### 5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)

*None*

### 6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS

*N/A*

### 7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part

*Eastern Soil Class Unit No. 160*

### 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

*Yes*

### 10. TIMBER PRODUCTION ZONE:

GIS

*None*

### 11. WETLANDS CLASSIFICATION:

GIS

*Fluvial Natural Stream 400± feet west of site*

### 12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS

*None*

### 13. AIRPORT LAND USE PLANNING AREA:

Airport Land Use Plan; GIS

*None*

### 14. SUPERFUND/BROWNFIELD/HAZMAT SITE:

GIS; General Plan 3-11

*No*

### 15. NATURAL DIVERSITY DATABASE:

CA Dept. of Fish & Wildlife Rarefind Database/GIS

*None*

### 16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10

*No*

### 17. LANDSLIDE HAZARD:

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44

*N/A*

### 18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34

*No*

### 19. WILD AND SCENIC RIVER:

[www.rivers.gov](http://www.rivers.gov) (Eel Only); GIS

*No*

### 20. SPECIFIC PLAN/SPECIAL PLAN AREA:

Various Adopted Specific Plan Areas; GIS

*No*

### 21. STATE CLEARINGHOUSE REQUIRED:

Policy

*No*

### 22. OAK WOODLAND AREA:

USDA

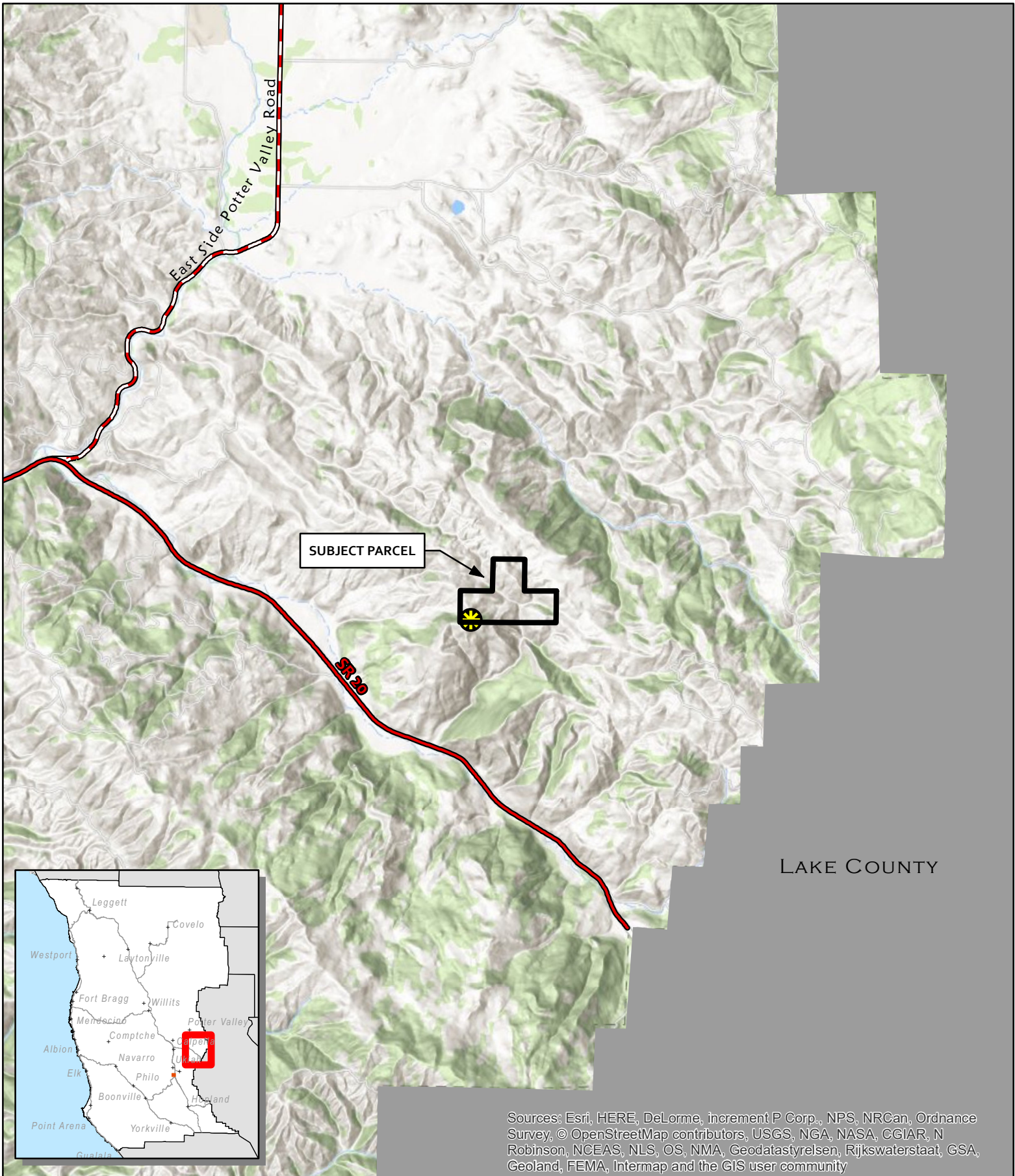
*No*

### 23. HARBOR DISTRICT:

Sec. 20.512

*No*



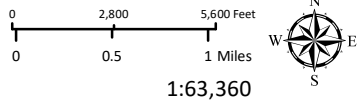


LAKE COUNTY

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**CASE:** AP\_2024-0016  
**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

-  Highways
-  Major Roads
-  Approved Wireless Sites

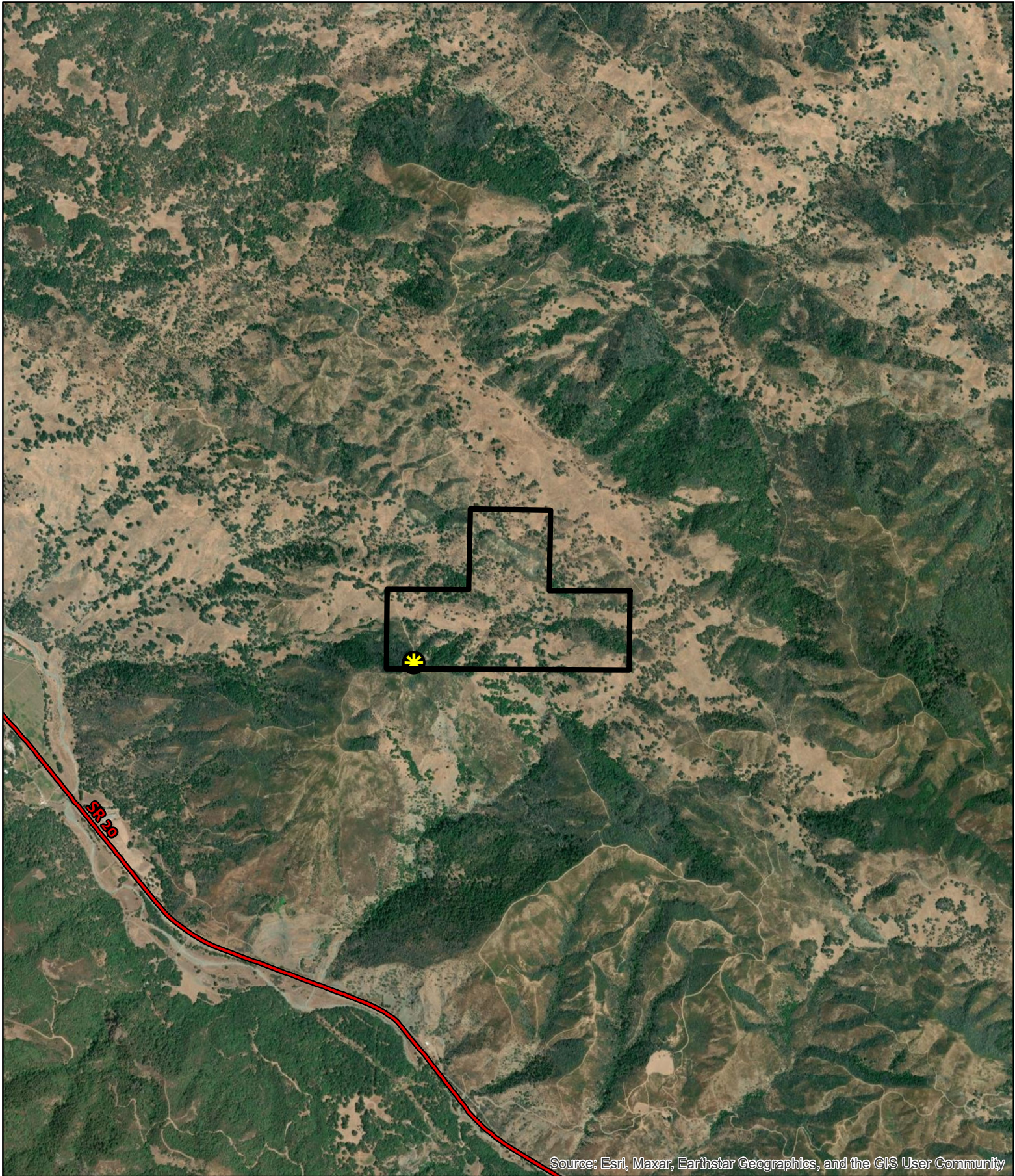


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LOCATION



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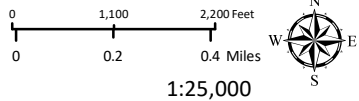




Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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-  Approved Wireless Sites

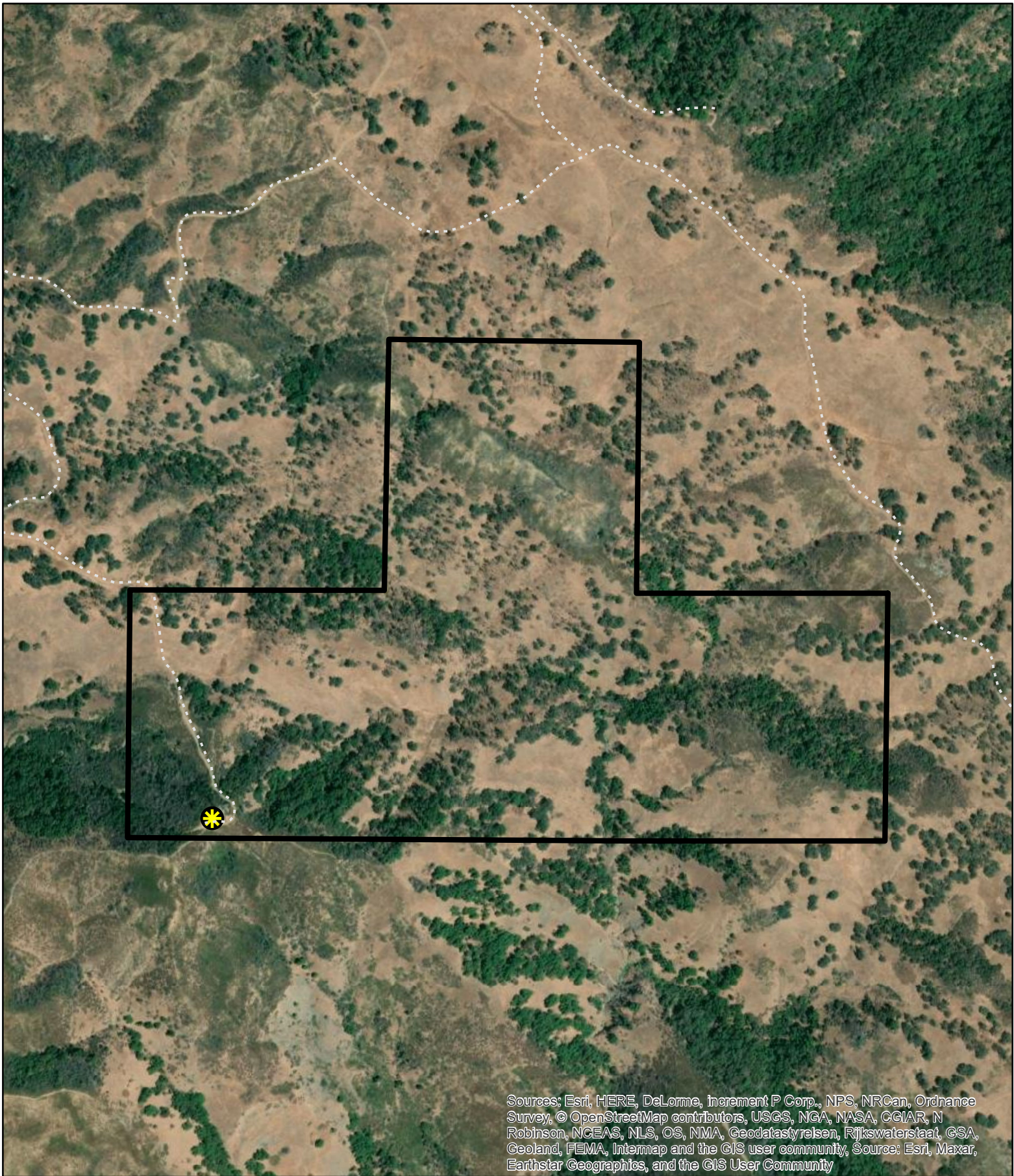


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AERIAL IMAGERY


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**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

----- Driveways/Unnamed Roads  
 Approved Wireless Sites

0 362.5 725 Feet  
0 0.05 0.1 Miles  
1:8,000



**AERIAL IMAGERY**

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# SITE ID: SF40855A

## PROJECT TYPE: ANCHOR

# US CELL-HWY 20 GUNTLY

### 6100 E SIDE POTTER VALLEY RD POTTER VALLEY, CA 95469

Prepared For:  
**T-Mobile**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:  
**THE CBR GROUP**  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

T-Mobile ID:  
SF40855A  
Site Name:  
US CELL-HWY 20 GUNTLY  
Site Address:  
6100 E SIDE POTTER VALLEY RD  
POTTER VALLEY, CA 95469

Issued For:  
CONSTRUCTION

REV	DATE	DESCRIPTION	BY
C	02/27/2024	PLAN CHECK COMMENTS	JD
B	12/28/2023	100%CDs FOR REVIEW	MS
A	11/17/2023	90%CDs FOR REVIEW	SF

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

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

Sheet Title:  
TITLE SHEET

Sheet Number:  
**T-1**

#### PROJECT DESCRIPTION

THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT AT AN EXISTING T-MOBILE UNMANNED WIRELESS COMMUNICATIONS FACILITY. SCOPE OF WORK CONSISTS OF THE FOLLOWING:

ANTENNA AREA:

- REPLACE (6)(E) ANTENNAS WITH (6)(N) ANTENNAS FINAL QTY: (6)
- REPLACE (3)(E) RADIOS WITH (3)(N) RADIOS AND ADD (3)(N) RADIOS - TOTAL 6
- REMOVE (6)(E) TMAS
- REMOVE (12)(E) COAX CABLES

EQUIPMENT AREA:

- RETAIN (1)(E) CABINET
- INSTALL (1)(N) 6160 CABINET
- INSTALL (2)(N) BASEBANDS INSIDE 6160 CABINET
- INSTALL (1)(N) B160 CABINET
- REMOVE (6)(E) DIPLEXERS
- INSTALL (1)(N) IXRE ROUTER
- INSTALL (2)(N) HYBRID CABLE SYSTEM (HCS)
- REMOVE UNUSED EQUIPMENT IF ANY
- INSTALL (1)(N) HCS WINDER BOX
- REPLACE (1)(E) HALOGEN WORK LIGHT WITH (1)(N) LED SERVICE LIGHT

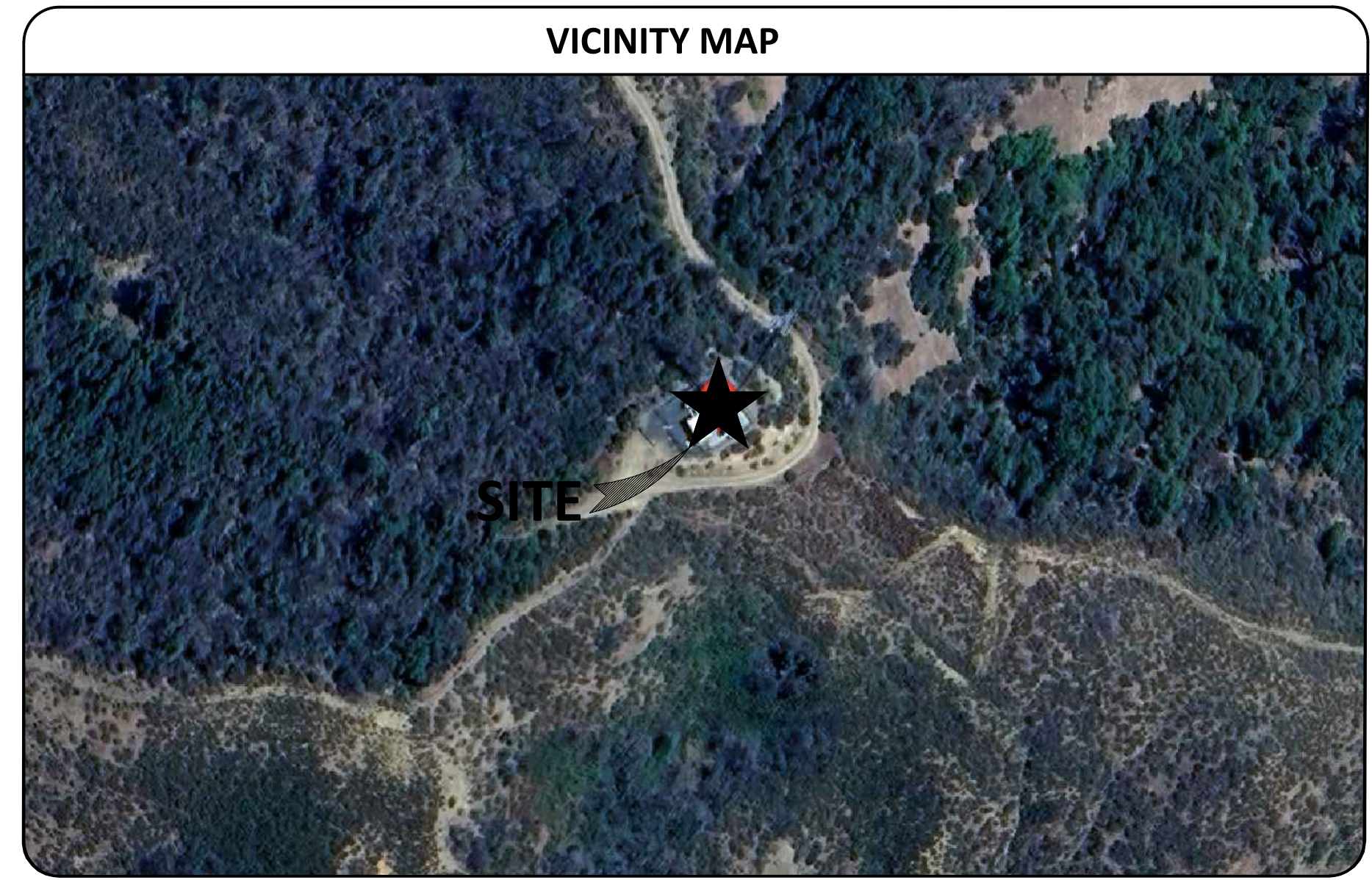
#### SHEET INDEX

T-1	TITLE SHEET
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
GN-3	SITE SIGNAGE
GN-4	BATTERY SPECIFICATIONS
A-1	OVERALL AND ENLARGED SITE PLAN
A-2	EXISTING AND PROPOSED EQUIPMENT PLANS
A-2.1	EXISTING AND PROPOSED ANTENNA AND EQUIPMENT PLANS
A-3	EXISTING AND PROPOSED ELEVATIONS (SOUTHEAST)
A-4	EXISTING AND PROPOSED ELEVATIONS (NORTHEAST)
A-5	ANTENNA AND EQUIPMENT SCHEDULE
A-6	DETAILS
A-6.1	DETAILS
E-1	ELECTRICAL NOTES AND PROPOSED GROUNDING PLAN/S
E-2	SINGLE LINE DIAGRAM, PANEL SCHEDULE, AND GROUNDING DETAILS

#### PROJECT TEAM

**APPLICANT/LESSEE:**  
T-MOBILE  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520  
ELIZABETH RIVERA  
PH: (949) 303-3095

**AGENT/ENGINEER:**  
THE CBR GROUP  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
SARAH WILSON  
PH: (925) 246-3212  
EMAIL: projects@thecbrgroup.com



#### PROJECT INFORMATION

**CURRENT USE:**  
UNMANNED TELECOMMUNICATIONS FACILITY

**PROPOSED USE:**  
UNMANNED TELECOMMUNICATIONS FACILITY

**STRUCTURE TYPE:**  
LATTICE TOWER

**APN:**  
177-270-32

**COORDINATES (LAT/LONG):**  
39.228011° (39° 13' 40.84" NORTH) /  
-123.064856° (123° 03' 53.48" WEST)

**GROUND ELEVATION:**  
±2393.1' AMSL

**JURISDICTION:**  
COUNTY OF MENDOCINO

**PROPERTY OWNER:**  
US CELLULAR SITE TECH  
SHAWN CRAMER  
TEL: 707-498-7503

**POWER AGENCY:**  
PG&E  
245 MARKET STREET  
SAN FRANCISCO, CA 94105

**TELEPHONE AGENCY:**  
AT&T CALIFORNIA  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

#### CODE COMPLIANCE

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

- 2022 CALIFORNIA BUILDING CODE (CBC)
- 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
- 2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
- 2022 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CGBSC)
- 2022 CALIFORNIA FIRE CODE (CFC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC)
- 2022 CALIFORNIA PLUMBING CODE (CPC)
- 2022 CALIFORNIA ELECTRICAL CODE (CEC)
- 2022 CALIFORNIA ENERGY CODE (CEC)
- 2021 NFPA 101, LIFE SAFETY CODE
- 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AS AMENDED BY CA
- 2022 NFPA 13, FIRE SPRINKLER CODE AS AMENDED BY CA
- 2023 NFPA 70, NATIONAL ELECTRICAL CODE
- ASCE 7-16, STRUCTURAL MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA
- ACI 318-19, CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- CAL-OSHA

#### OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY : U (UNMANNED COMMUNICATIONS FACILITY)

CONSTRUCTION TYPE: -

**ACCESSIBILITY REQUIREMENTS**

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, PART 2, TITLE 24, SECTION 1103B.1, EXCEPTION 1 & SECTION 1134B.2.1, EXCEPTION 4.

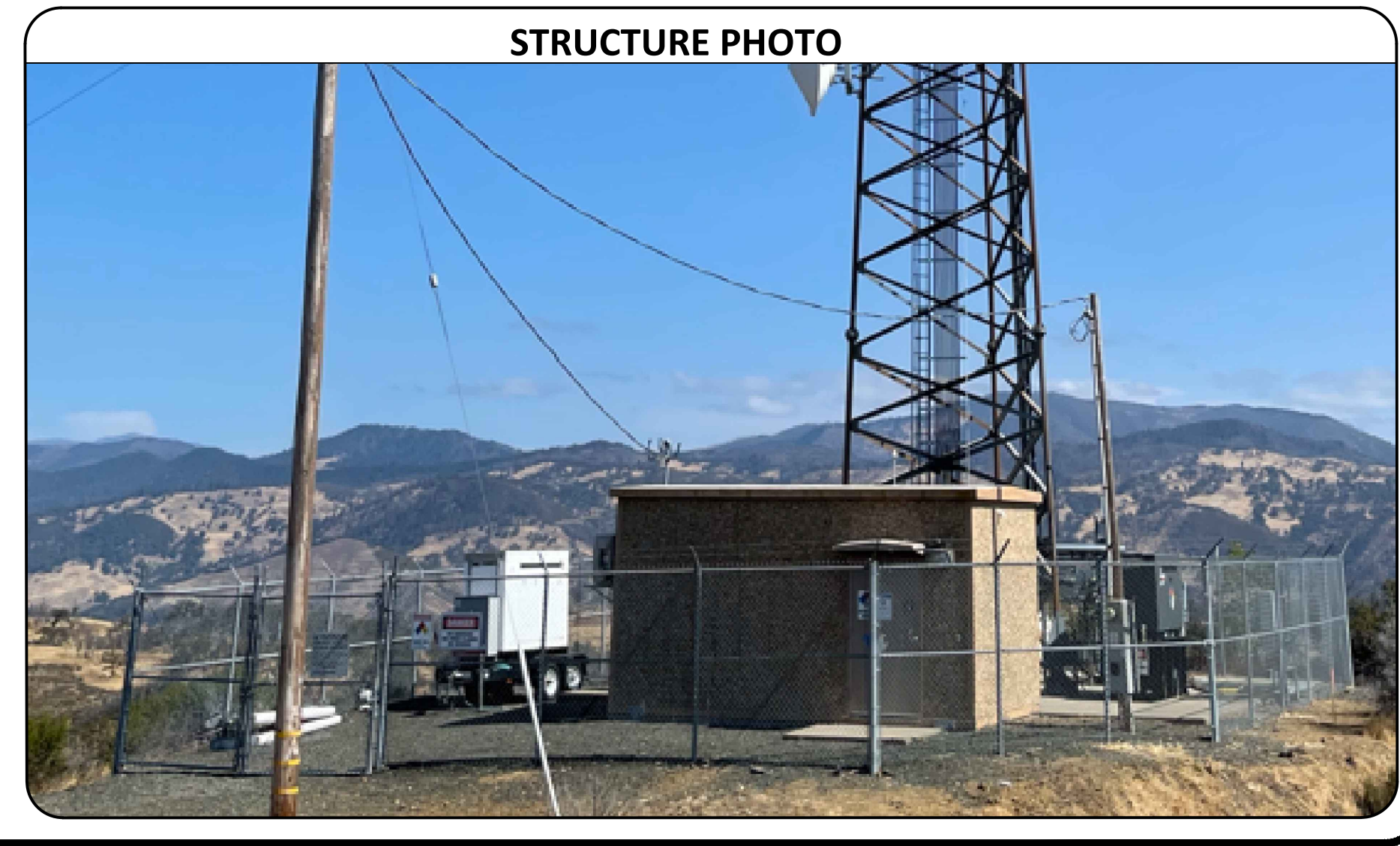
#### RADIO FREQUENCY DATA PLAN

REVISION	LEVEL	DATE:
VERSION 5		10/23/2023

#### GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.





GENERAL CONSTRUCTION NOTES

- 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDIT AND ALL OTHER APPLICABLE CODES AND ORDINATES.
2. CONTRACTOR SHALL VISIT THE JOB SITE TO BECOME FAMILIAR HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF.
3. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED.
4. DIMENSIONS SHOWN ARE TO BE FINISH SURFACED UNLESS OTHERWISE NOTED.
5. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
6. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACTOR DOCUMENTS.
7. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT.
9. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTION OF THE WORK.
11. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
12. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
13. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE).
14. REPAIR ALL EXISTING WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
15. SEAL PENETRATIONS THROUGH FIRE RATED AREA WITH U.L. LIST AND FIRE CODE APPROVED MATERIALS.
16. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH.
17. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
18. ALL EXISTING INACTIVE SEWER, WATER, GAS ELECTRIC, AND OTHER UTILITY, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK.
19. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
20. ALL CONSTRUCTION IS TO ADHERE TO T-MOBILE INTEGRATED CONSTRUCTION STANDARDS UNLESS CALIFORNIA CODE IS MORE STRINGENT.
21. THE INTENT OF THE PLANS AND SPECIFICATIONS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS SHALL ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK.

GENERAL RF NOTES:

- 1. ALL ANTENNAS AND ANTENNA CABLES SHALL BE FURNISHED BY THE CELL CARRIER 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 RADII 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 (INTERMEDIATE METAL CONDUIT) OR RIGID GALVANIZED.
6. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE, CONTRACTOR SHALL PROVIDE FORMED 14-GA GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES.
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 FEET. MAXIMUM LENGTH OF 1-5/8" COAXIAL CABLE SHALL BE 240 FEET.
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 CELL CARRIER 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.
12. MATERIALS IN FRONT AND SIDE OF ANTENNAS MUST BE RF TRANSPARENT TO MINIMIZE PIM ISSUES.
13. MAKE SURE THERE'S NO RUST ON COMPONENTS AND NO LOOSE CONNECTIONS.
14. ENSURE THERE ARE NO PIM ISSUES DURING INSTALLATION.
15. ANTENNAS CANNOT SHOOT INTO METAL, OTHER OPERATOR ANTENNAS, ANYTHING THAT CAN CAUSE PIM, ETC.
16. NO ANTENNA SHADOWING. ALL ANTENNAS ARE TO BE CO-PLANAR.
17. ANTENNAS AND RADIOS CANNOT TOUCH THE FRP SCREEN.
18. IF THERE IS A PARAPET WALL, THE BOTTOM OF ALL ANTENNAS MUST BE ABOVE THE HIGHEST POINT.
19. CALL OUT THE USE OF THE CONCEALFAB PIM SHIELD KIT.

SITE WORK NOTES

- 1. DO NOT EXCAVATE OR DISTURB THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
3. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
4. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION.
6. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
7. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
8. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
9. STRUCTURAL FILLS SUPPORTING PAVEMENT SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
10. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
11. ALL FILLS SHALL BE PLACED IN UNIFORM LIFTS.
12. ALL FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEO-TECHNICAL ENGINEER.
13. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSHES OR ANY OTHER DEPOSITS WILL REMAIN.
14. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
15. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES

- 1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURED FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTOR EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEANING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILK FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIBLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

FOUNDATION, EXCAVATION AND BACKFILL NOTES

- 1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOIL, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL.
4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND ALSO FORTH PRIOR TO BACK FILLING.
5. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS.
6. NEWLY PLACED CONCRETE FOUNDATION SHALL CURE A MINIMUM OF 72 HOURS PRIOR TO BACK-FILL.
7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER.
8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC.
9. IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS.
10. WHEN SUB-GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL.
11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS.
12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSED.
13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED.
14. PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE.
15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
16. ALL SUITABLE BORROW MATERIAL FOR BACKFILL OF THE SITE SHALL BE INCLUDED IN THE BID.

Prepared For:



Engineer:



T-Mobile ID: SF40855A

Site Name: US CELL-HWY 20 GUNTLY

Site Address: 6100 E SIDE POTTER VALLEY RD POTTER VALLEY, CA 95469

Issued For: CONSTRUCTION

Empty table grid for tracking construction progress.

Table with columns: C, B, A, REV, DATE, DESCRIPTION, BY. Contains revision history.

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Sheet Title:

GENERAL NOTES

Sheet Number:

GN-1



**STRUCTURAL STEEL**

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH STEEL CONSTRUCTION MANUAL, 15th EDITION AND ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED. FILL MODIFICATIONS ARE TO BE COATED WITH ZINC-ENRICHED PAINT.
2. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM STANDARDS:  
-ANGLE, BARS, AND CHANNELS: ASTM A36, 36 KSI  
-W-SHAPE: ASTM 1992, 50 KSI  
-HSS SECTOR: ASTM A53-E, 35 KSI
3. ALL WELDING SHALL BE PERFORMED USING E70 (LOW HYDROGEN) ELECTRODES BY AWS CERTIFIED WELDERS. WELDING SHALL CONFORM TO AISC AND THE LATEST EDITION OF AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYP. 3/4" DIA. CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL COLD-GALVANIZE ALL RAW STEEL AS REQUIRED DURING CONSTRUCTION PROCESS.

**CONCRETE AND REINFORCEMENT STEEL**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-16, ACI 301-16 AND THE CAST-IN-PLACE CONCRETE SPECIFICATIONS.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
5. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS NOTED OTHERWISE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
7. CONCRETE COVER FOR REINFORCEMENT STEEL SHALL BE ACCORDING TO ACI 318-19, TABLE 20.6.1.3.1:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER, IN.
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WETHER OR IN CONTACT WITH GROUND	ALL	NO. 6 THROUGH NO.18 BARS	2
		NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	NO. 14 AND NO.18 BARS	1-1/2
	BEAMS, COLUMNS PEDESTALS, AND TENSION TIES	NO.11 BAR AND SMALLER	3/4
		PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1-1/2

**CONCRETE MASONRY**

1. MORTAR SHALL BE HAVE TYPE "S" WITH A MINIMUM 1,800 PSI AT 28 DAYS. GROUT SHALL BE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS AND ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
2. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT (115 PCF) UNITS CONFORMS TO ASTM C90, GRADE N-1, FM OF 1,500 PSI.
3. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS. CELL SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING STEEL. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED. ALL HORIZONTAL REINFORCING STEEL SHALL BE PLACED IN BOND OR INTEL BEAM UNITS.
5. WHEN GROUTING IS STOPPED FOR ONE LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
6. PROVIDE INSPECTION AND CLEAN OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
7. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
8. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, AND FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL.
9. BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

**PAINTING NOTES:**

1. ALL PAINT PRODUCT LINE SHALL BE "SHERWIN-WILLIAMS" OR EQUAL UNLESS SPECIFICALLY NOTED OTHERWISE.
2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
3. FINISH COLOR AND TEXTURE OF ALL SURFACES TO BE PAINTED SHALL MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.
4. ALL PAINT MATERIAL DATA SHEET SHALL BE PROVIDED TO THE CELL CARRIER CONSTRUCTION MANAGER.
5. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES, AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

**ROOF & 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 DISCRPANCY 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 AND CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF AND BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
4. IF DEEMED NECESSARY TO REMOVE EXISTING FINISHED AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITIONS. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES AND FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY T-MOBILE CONSTRUCTION MANAGER IN ADVANCE.
5. AT THE CLIENT CONSTRUCTION MANAGER'S DISCRETION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT. ON CONVENTIONAL ROOFING, THE WALKPADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY "APC" OR EQUAL. ON SPECIAL ROOFTOP 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.

Prepared For:



Engineer:



T-Mobile ID:

**SF40855A**

Site Name:

**US CELL-HWY 20 GUNTLY**

Site Address:

**6100 E SIDE POTTER VALLEY RD POTTER VALLEY, CA 95469**

Issued For:

**CONSTRUCTION**


C	02/27/2024	PLAN CHECK COMMENTS	JD	
B	12/28/2023	100%CDs FOR REVIEW	MS	
A	11/17/2023	90%CDs FOR REVIEW	SF	
REV	DATE	DESCRIPTION	BY	

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Sheet Title:

**GENERAL NOTES**

Sheet Number:

**GN-2**



**EMERGENCY SHUT DOWN**

FOR IMMEDIATE SHUT DOWN OF ALL RADIO FREQUENCY EMISSIONS OF THIS SITE:

- CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.  
CONTACT PHONE NUMBER: 1-888-662-4662  
SITE IDENTIFICATION NUMBER: \_\_\_\_\_
- DISCONNECT POWER AT MAIN SERVICE DISCONNECT:  
**(CONTRACTOR TO SUBMIT PROPOSED WRITTEN DIRECTIONS FOR EACH OF (5) SIGNS TO PROJECT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO ORDERING SIGNS)**
- DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:  
**(CONTRACTOR TO SUBMIT PROPOSED WRITTEN DIRECTIONS FOR EACH OF (5) SIGNS TO PROJECT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO ORDERING SIGNS)**

**12** EMERGENCY SHUTDOWN SIGNAGE  
N.T.S.

**NOTICE TO WORKERS**

RADIO FREQUENCY ANTENNAS ON THIS ROOF. PLEASE EXERCISE CAUTION AROUND ANTENNAS AND OBEY POSTED SIGNS AND/OR MARKINGS. FOR ACCESS TO RESTRICTED AREAS OR FOR FURTHER INFORMATION, PLEASE CALL 1-888-662-4662 (SITE NUMBER: \_\_\_\_\_) IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

**AVISO A TRABAJADORES**

EN ESTE TECHO HAY ANTENAS DE RADIOFRECUENCIA. POR FAVOR USE PRECAUCIÓN AL REDEDOR DE LAS ANTENAS Y OBEDEZCA LOS AVISOS Y/O MARCAS PUESTOS. PARA OBTENER ACCESO A LAS ZONAS RESTRINGIDAS O PARA OBTENER MÁS INFORMACIÓN, LLAME AL TELÉFONO 1-888-662-4662 (NÚMERO DE SITIO: \_\_\_\_\_) DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.1310

**工作人員注意**

此屋宇房頂有射頻天線裝置  
在天線範圍四周請小心，並遵照各已張貼之指示及/或標識行事  
如需進入禁區範圍或索取更多資料  
請致電 1-888-662-4662 此站區號：\_\_\_\_\_  
依據 FCC 條例第 47 CFR 1.1310 款執行

**11** TRILINGUAL SIGNAGE  
N.T.S.

Property of T-MOBILE  
**Authorized Personnel Only**

No Trespassing  
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call and reference cell site number \_\_\_\_\_

**10** GATE SIGNAGE  
N.T.S.

Property of T-MOBILE  
**Authorized Personnel Only**

In case of emergency, or prior to performing maintenance on this site, call and reference cell site number \_\_\_\_\_

**8** SHELTER/CABINET DOOR SIGNAGE  
N.T.S.

**NOTICE AUTHORIZED PERSONNEL ONLY**

**6** DOOR/EQUIPMENT SIGNAGE  
N.T.S.

**NOTICE**

**GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS**

- All personnel should have electromagnetic energy (EME) awareness training.
- All personnel entering this site must be authorized.
- Obey all posted signs.
- Assume all antennas are active.
- Before working on antennas, notify owners and disable appropriate transmitters.
- Maintain minimum 3 feet clearance from all antennas.
- Do not stop in front of antennas.
- Use personal RF monitors while working near antennas.
- Never operate transmitters without shields during normal operation.
- Do not operate base station antennas in equipment room.

For information contact: 877-611-5868

TM0130956 **T Mobile**

**4** ROOFTOP SIGNAGE  
N.T.S.

**INFORMATION**

Federal Communications Commission  
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with Federal Communications Commission rules and antenna tower registration 47CFR 17.4(g).

**9** FCC ASR SIGNAGE  
N.T.S.

**T-Mobile**

This Site Operated by:  
**T-MOBILE**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94500

IN CASE OF FIRE AND THE NEED FOR SHUTDOWN TO DEACTIVATE ANTENNAS CALL THE FOLLOWING NUMBER:  
For 24-Hour Emergency Contact and Access Please Call:  
(888) 662-4662

Reference Site#: \_\_\_\_\_  
Site Address: \_\_\_\_\_

**7** SHELTER SIGNAGE  
N.T.S.

**DANGER NO TRESPASSING**

**5** SHELTER SIGNAGE  
N.T.S.

**NOTES:**

- CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE WITH T-MOBILE DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
- CONTRACTOR SHALL CONTACT T-MOBILE R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE

**WARNING**

Ref: FCC 47CFR 1.1307(b) T-MOBILE

**3** WARNING, CAUTION AND NOTICE SIGNS  
N.T.S.

**CAUTION**

Ref: FCC 47CFR 1.1307(b) T-MOBILE

**NOTICE**

Ref: FCC 47CFR 1.1307(b) T-MOBILE

**2** INFORMATION SIGNAGE  
N.T.S.

**INFORMATION**

ACTIVE ANTENNAS ARE MOUNTED

ON THE OUTSIDE FACE OF THIS BUILDING

INFORMATION SIGN 1-2

ON THIS STRUCTURE

STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS

CONTACT T-MOBILE AT 888-662-4662 & FOLLOW THEIR INSTRUCTIONS PRIOR TO PERFORMING ANY MAINTENANCE OR REPAIRS CLOSER THAN 3 FEET FROM THE ANTENNAS.

THIS IS T-MOBILE SITE \_\_\_\_\_

**INFORMATION**

EN ESTA PROPIEDAD SE UBICAN ANTENAS DE TELECOMUNICACIONES OPERADAS POR T-MOBILE. FAVOR MANTENER UNA DISTANCIA DE NO MENOS DE 3 PIES Y OBEDECER TODOS LOS AVISOS.

COMUNIQUESE CON EL PROPIETARIO O LOS PROPIETARIOS DE LAS ANTENNAS ANTES DE REALIZAR CUALQUIER TIPO DE REPARACIONES O MANTENIMIENTO DE LAS ANTENNAS DE T-MOBILE.

COMUNIQUESE CON T-MOBILE OBBR@TMOBILE.COM ANTES DE REALIZAR CUALQUIER MANTENIMIENTO O REPARACION DE LAS ANTENNAS DE T-MOBILE.

ESTA ES LA ESTACION BASE NUMERO \_\_\_\_\_

FAVOR COMUNICARSE CON LA OFICINA DE LA ADMINISTRACION DEL SERVICIO EN ESTE PUNTO O COMPARTIR LA INFORMACION SIN CARGARLO.

FRONT OF THE SIGN:  
ALL PAINT WILL BE BAKED WITH ENAMEL AND WITH UV-PROTECTIVE COATING OVER THE FACE OF THE SIGN.

SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL WITH AN ADHESIVE BACKING. THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES WITH A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK WITH 0.75-INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK WITH 1/8-INCH HIGH LETTERS. UV-PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

SIGN 3 IS A 1-INCH X 2-INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN T-MOBILE ANTENNA.

SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2-INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK WITH 1/2-INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

**INFORMATION SIGN 1-1**  
N.T.S.

**INFORMATION SIGN 1-2**  
N.T.S.

**INFORMATION SIGN 1-3**  
N.T.S.

**INFORMATION SIGN 1-4**  
N.T.S.

**SIGNAGE AND STRIPING INFORMATION**

- THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EME REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
- THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY T-MOBILE IS 1mW/cm<sup>2</sup> AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY T-MOBILE IS 5mW/cm<sup>2</sup>.
- IF THE BOTTOM OF THE ANTENNA IS MOUNTED 8 FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (E.G. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EME REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR AND THE T-MOBILE CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE T-MOBILE'S NAME AND THE COMPANY CONTACT INFORMATION (E.G. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE T-MOBILE CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- PHOTOS OF ALL STRIPING, BARRICADES AND SIGNAGE SHALL BE PART OF THE CONTRACTOR'S CLOSE-OUT PACKAGE AND SHALL BE TURNED OVER TO THE T-MOBILE CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE-RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF-FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE WITH THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED WITH FADE-RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF-FRIENDLY BARRICADES NEEDED, AND SHALL PROVIDE THE T-MOBILE CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE UPON CONSTRUCTION COMPLETION.

**1** GENERAL NOTES  
N.T.S.

Prepared For:

**T-Mobile**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:

**THE CBR GROUP**  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

T-Mobile ID:  
SF40855A

Site Name:  
US CELL-HWY 20 GUNTLY

Site Address:  
6100 E SIDE POTTER  
VALLEY RD  
POTTER VALLEY, CA 95469

Issued For:  
CONSTRUCTION

REV	DATE	DESCRIPTION	BY
C	02/27/2024	PLAN CHECK COMMENTS	JD
B	12/28/2023	100%CDs FOR REVIEW	MS
A	11/17/2023	90%CDs FOR REVIEW	SF

Jurisdiction:

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Licenser:

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Sheet Title:  
**SITE SIGNAGE**

Sheet Number:  
**GN-3**



Prepared For:  
**T-Mobile**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

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Sheet Title:  
**BATTERY SPECIFICATIONS**

Sheet Number:  
**GN-4**

**NOTICE**

**Beyond This Point** you are entering an area where RF Emissions *may exceed* the FCC General Population Exposure Limits.

Follow all posted signs and site guidelines for working in an RF environment.

Ref: FCC 47CFR 1.1307(b) T-MOBILE

**3 BATTERY CABINET NOTICE SIGN**  
N.T.S.



**2 BATTERY FIRE SAFETY SIGN**  
N.T.S.

**FIRE DEPARTMENT NOTES:**

- UNDER THE T-MOBILE PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH-PERFORMANCE FIRE STOP SYSTEM #FS601 AT ALL FIRE-RATED PENETRATION INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATION.
- ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.
- BUILDING UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION & DEMOLITION).
- NEW AND EXISTING BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLAED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. (CFC SECTION 505 PREMISES IDENTIFICATION)
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN ACCORDANCE WITH CFC CHAPTER 8.
- VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES, AND WATERFLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY A LISTED FIRE ALARM CONTROL UNIT. (CFC SECTION 903.4)
- INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC SECTION 907.
- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH CFC SECTIONS 906.1 & 906.2 AND CALIF. CODE OR REGULATIONS TITLE 19, DIVISION 1, CHAPTER 3.
- CONTRACTOR SHALL VERIFY IN FIELD THE EXISTENCE OR INSTALLATION OF A FIRE EXTINGUISHER WITH A MINIMUM RATING OF A 2A-10BC, WITH A CHARGE STATUS ACCEPTABLE TO THE LOCAL FIRE AUTHORITY HAVING JURISDICTION.
- COMPLETE PLANS AND SPECIFICATIONS FOR ALARM SYSTEMS FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND OTHER FIRE-PROTECTION SYSTEMS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL IN INSTALLATION. (CFC SECTION 901.2)

**1 FIRE DEPARTMENT NOTES**  
N.T.S.

**Industrial Lead Acid Battery Safety Data Sheet**

REVISION DATE: 01-31-18

<b>1. IDENTIFICATION</b>	
<p><b>Product Name:</b> Lead Acid Battery, Non-Spillable Wet</p> <p><b>Synonyms:</b> Industrial Battery, Traction Battery, Stationary Battery, Deep Cycle Battery</p> <p><b>General Information Number:</b> 417 575 8200</p>	<p><b>Product Use:</b> Electric Storage Battery</p> <p><b>Manufacturer/Supplier:</b> NorthStar Battery, Co., LLC</p> <p><b>Address:</b> 4000 E. Continental Way, Springfield, MO 65803</p> <p><b>CAS Number:</b> Not Applicable CHEMTREC: 800-424-9300</p>

**2. GHS HAZARDS IDENTIFICATION**

Health	Environmental	Physical
<p>Acute Toxicity (Oral/Dermal/Inhalation) - Category 4</p> <p>Skin Corrosion/Irritation - Category 1A</p> <p>Eye Damage - Category 1</p> <p>Reproductive - Category 1A</p> <p>Carcinogenicity (lead) - Category 1B</p> <p>Carcinogenicity (arsenic) - Category 1A</p> <p>Carcinogenicity (acid mist) - Category 1A</p> <p>Specific Target Organ - Category 2</p> <p>Toxicity (repeated exposure)</p>	<p>Aquatic Chronic - 1</p> <p>Aquatic Acute - 1</p>	<p>Explosive Chemical, Division 1.3</p>

**GHS Label:**

Health	Environmental	Physical

<p><b>Hazard Statements</b></p> <p><b>DANGER!</b> Causes severe skin burns and eye damage.</p> <p>Causes serious eye damage.</p> <p>May damage fertility or the unborn child if ingested or inhaled.</p> <p>Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure.</p> <p>May form explosive air/gas mixture during charging.</p> <p>Extremely flammable gas (hydrogen).</p> <p>Explosive, fire, blast or projection hazard.</p>	<p><b>Precautionary Statements</b></p> <p>Wash thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wear protective gloves/protective clothing, eye protection/face protection.</p> <p>Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Causes skin irritation, serious eye damage.</p> <p>Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.</p> <p>Irritating to eyes, respiratory system, and skin.</p>
--	--

Date: 01-31-18    ECD-101808    ISO Clause: 4.3.1    DCN: SDS-430-0007-08    Page: 1 of 10

**5 BATTERY SAFETY DATA SHEET**  
N.T.S.

NSB 190FT RED

www.northstarbattery.com

**NSB 190FT RED**  
Nominal Technical Specifications

Dimensions		
Height	12.6 in	Width 4.9 in
Length	22 in	Weight 123 lbs

Electrical		
Terminal	Female M8 x 1.25	
Terminal torque	8.0 Nm (71 in-lb)	
1 hr capacity to 1.70 VPC @ 20/25°C (68/77°F)	123 / 120 Ah	
3 hr capacity to 1.75 VPC @ 20/25°C (68/77°F)	160 / 156 Ah	
8 hr capacity to 1.75 VPC @ 20/25°C (68/77°F)	182 / 180 Ah	
10 hr capacity to 1.80 VPC @ 20/25°C (68/77°F)	187 / 190 Ah	
Float voltage @ 23/25°C (84/77°F)	2.28 / 2.27 VPC	
Impedance (1kHz)	28 mΩ @ 25°C (77°F)	
Conductance	1900 S	
Short circuit current	5000 A	
Short circuit current	5000 A	
Operating temperature range	-40°C to +55°C	
Nominal voltage	12 V	

Technical Drawing

All NorthStar batteries are compliant with Telcordia SR428, IEC 60906, and IEC 60905. Before GPRB-COM issue 1. British, German and Russian telecom standards, UL approved and UN38.3 certified, NorthStar is registered to ISO 9001 and ISO 14001.

NorthStar America, Inc.  
14000 Corporate Blvd.  
Springfield, MO 65803  
www.northstarbattery.com  
Tel: 417-575-8200  
Fax: 417-575-8200

NorthStar Europe  
10000 Corporate Blvd.  
Humboldtville, PA 15884  
www.northstarbattery.com  
Tel: 417-575-8200  
Fax: 417-575-8200

NorthStar Middle East, Africa  
NorthStar Battery (SAUDI)  
P.O. Box 12345  
Jeddah, Saudi Arabia  
www.northstarbattery.com  
Tel: +966 2 461 4614  
Fax: +966 2 461 4614

NorthStar Asia/Pacific  
NorthStar Battery (SINGAPORE)  
80 Selegie Road,  
Singapore 369808  
www.northstarbattery.com  
Tel: +65 6 339 9377  
Fax: +65 6 339 9377

Release date: 2017-10-05

**6 BATTERY SPECIFICATION SHEET**  
N.T.S.

BATTERY TYPE	MODEL	CAPACITY (AH)	VOLTAGE	CAPACITY (kWh)/BAT	# OF EXISTING BAT	# OF PROPOSED BAT	FINAL # OF BAT	kWh
NORTHSTAR	NSB 190FT RED	183	12	2,196	0	12	12	26.35
							TOTAL kWh	26.35




































AH = AMPERE HOURS      BAT = BATTERY      kWh = KILOWATT HOURS

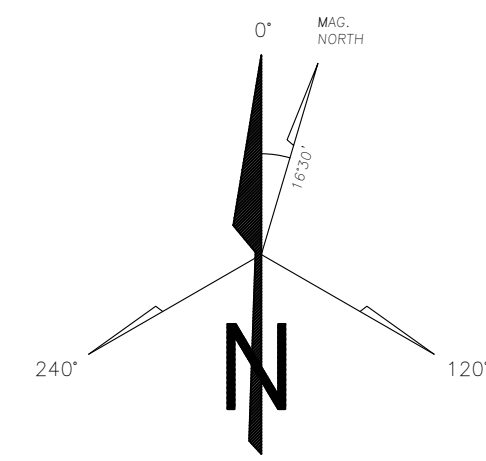
**4 BATTERY LOAD CALCULATIONS**  
N.T.S.

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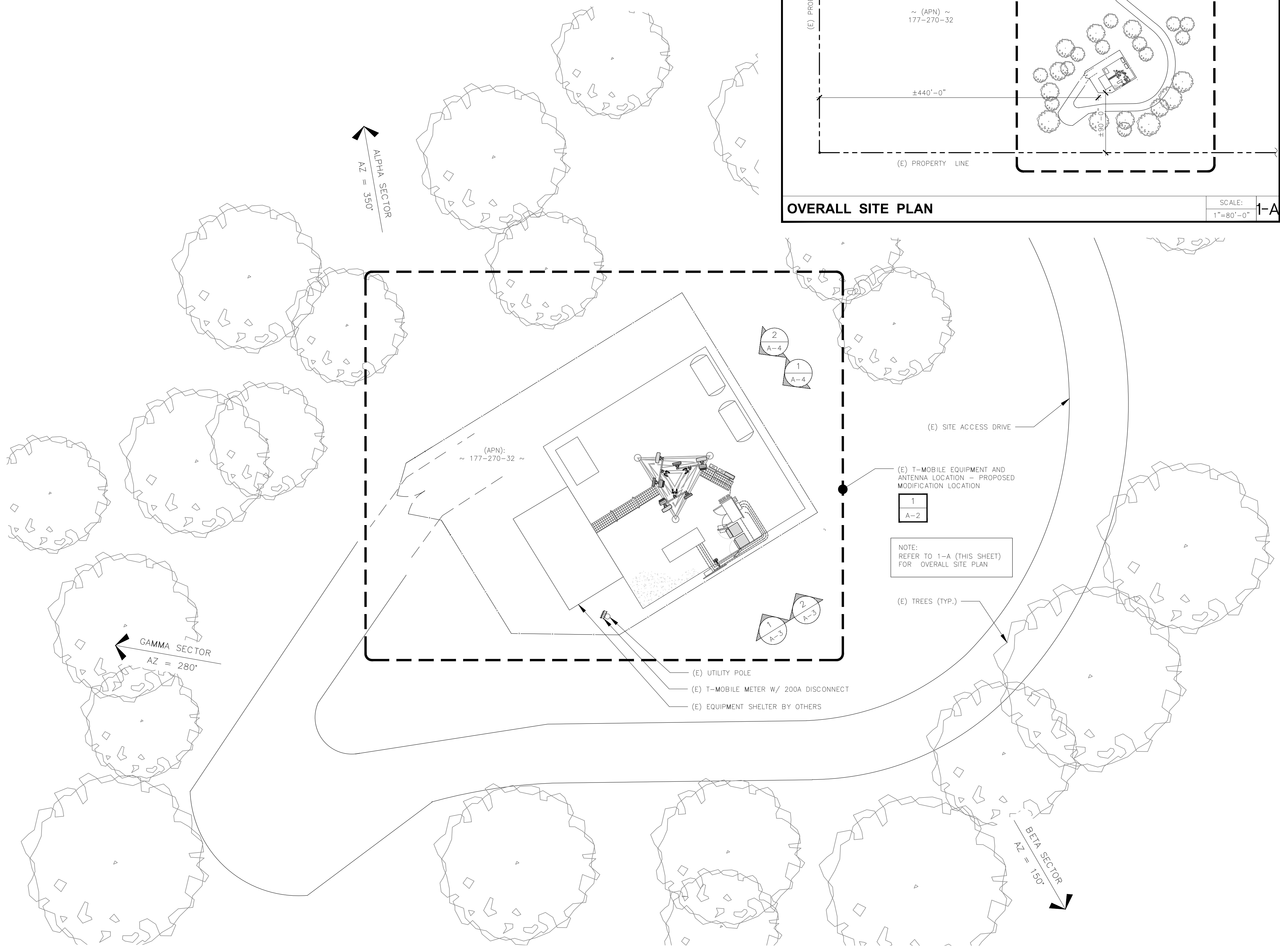
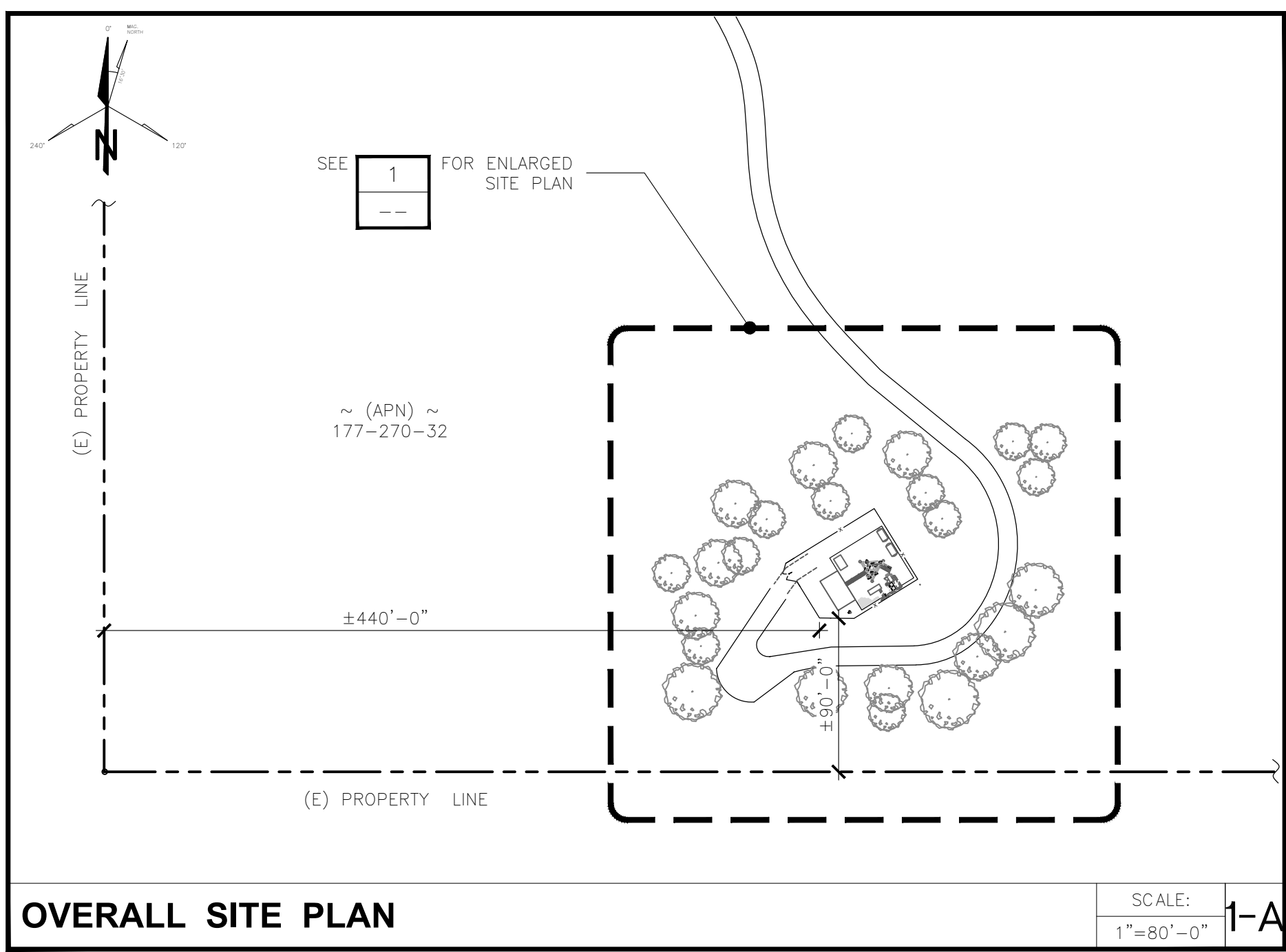
**SYMBOLS & ABBREVIATIONS**

-  GRID REFERENCE
-  DETAIL REFERENCE
-  ELEVATION REFERENCE
-  SECTION REFERENCE
-  MATCH LINE
-  WORK POINT
-  SPOT ELEVATION (DATUM)
-  REVISION
-  BREAK LINE
-  CENTERLINE
-  PROPERTY/LEASE LINE
-  FENCE
-  GROUNDING LINE
-  UNDERGROUND SERVICE CONDUCTORS
-  OVERHEAD SERVICE CONDUCTORS
-  BRICK
-  CONCRETE
-  MASONRY
-  SAND
-  EARTH
-  GRAVEL
-  PLYWOOD
-  STEEL
-  (N) NEW
-  (E) EXISTING
-  TYP. TYPICAL
-  A.G.L. ABOVE GROUND LEVEL
-  U.N.O. UNLESS NOTED OTHERWISE
-  N.T.S. NOT TO SCALE
-  T.B.D. TO BE DETERMINED
-  EXISTING LUMINAIRE
-  EXISTING UTILITY POLE
-  FOUNDATION MONUMENT
-  GROUND WELL
-  SET POINT




**TYPICAL NOTE/S:**

1. THESE DRAWINGS HAVE BEEN CREATED WITHOUT A SURVEY. INFORMATION HAVE BEEN OBTAINED FROM (E) AS-BUILTS PROVIDED BY CLIENT AND/OR DATA COLLECTED BY OUR FIELD TEAM
2. PRIOR TO CONSTRUCTION, PLEASE VERIFY IN FIELD ALL DIMENSIONS, LENGTHS, PROPERTY LINES, AND CONDUIT RUNS.



**1 ENLARGED SITE PLAN**

Prepared For:



1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:



2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

T-Mobile ID:  
**SF40855A**

Site Name:  
**US CELL-HWY 20 GUNTLY**

Site Address:  
**6100 E SIDE POTTER  
VALLEY RD  
POTTER VALLEY, CA 95469**

Issued For:  
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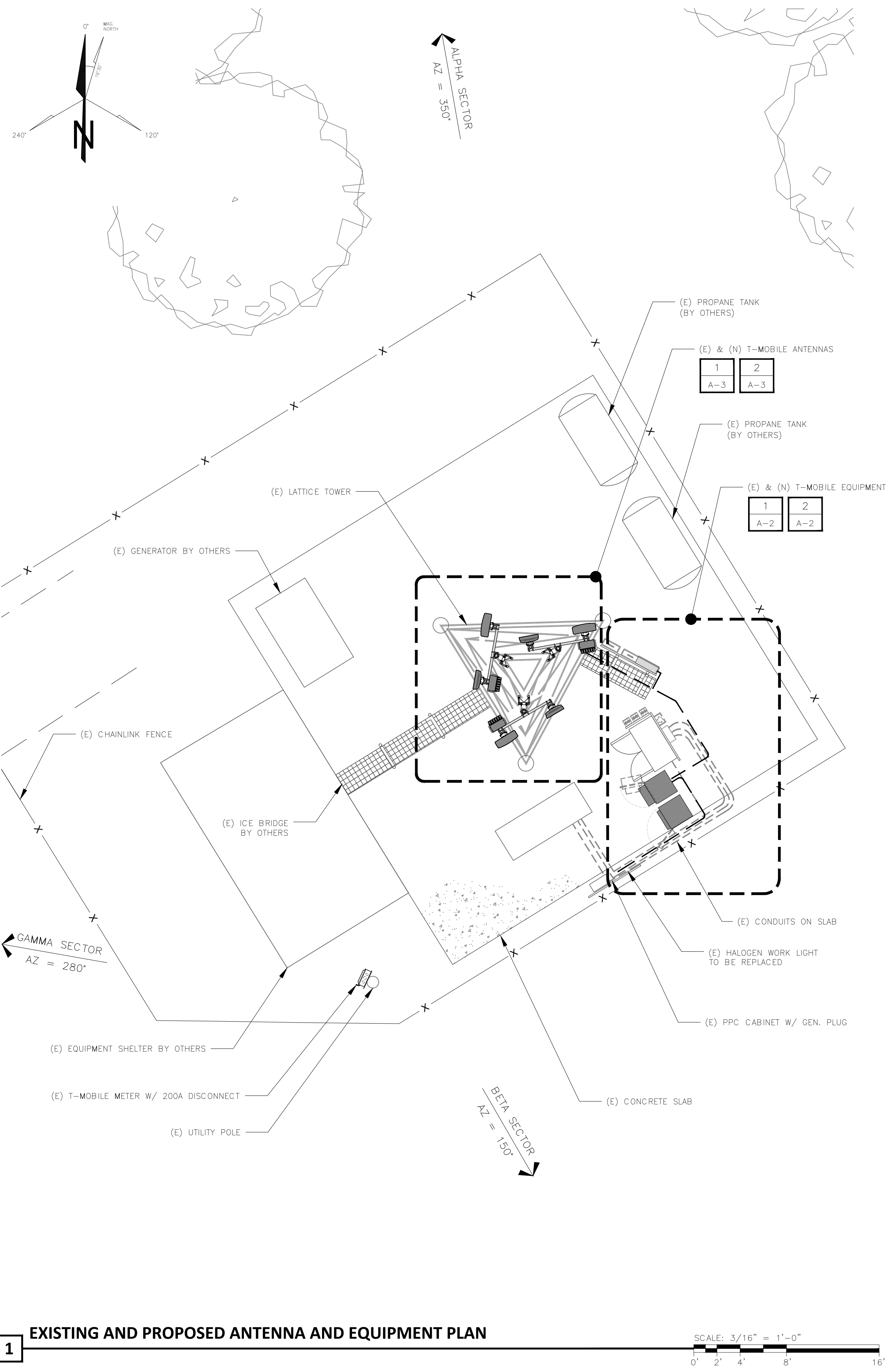
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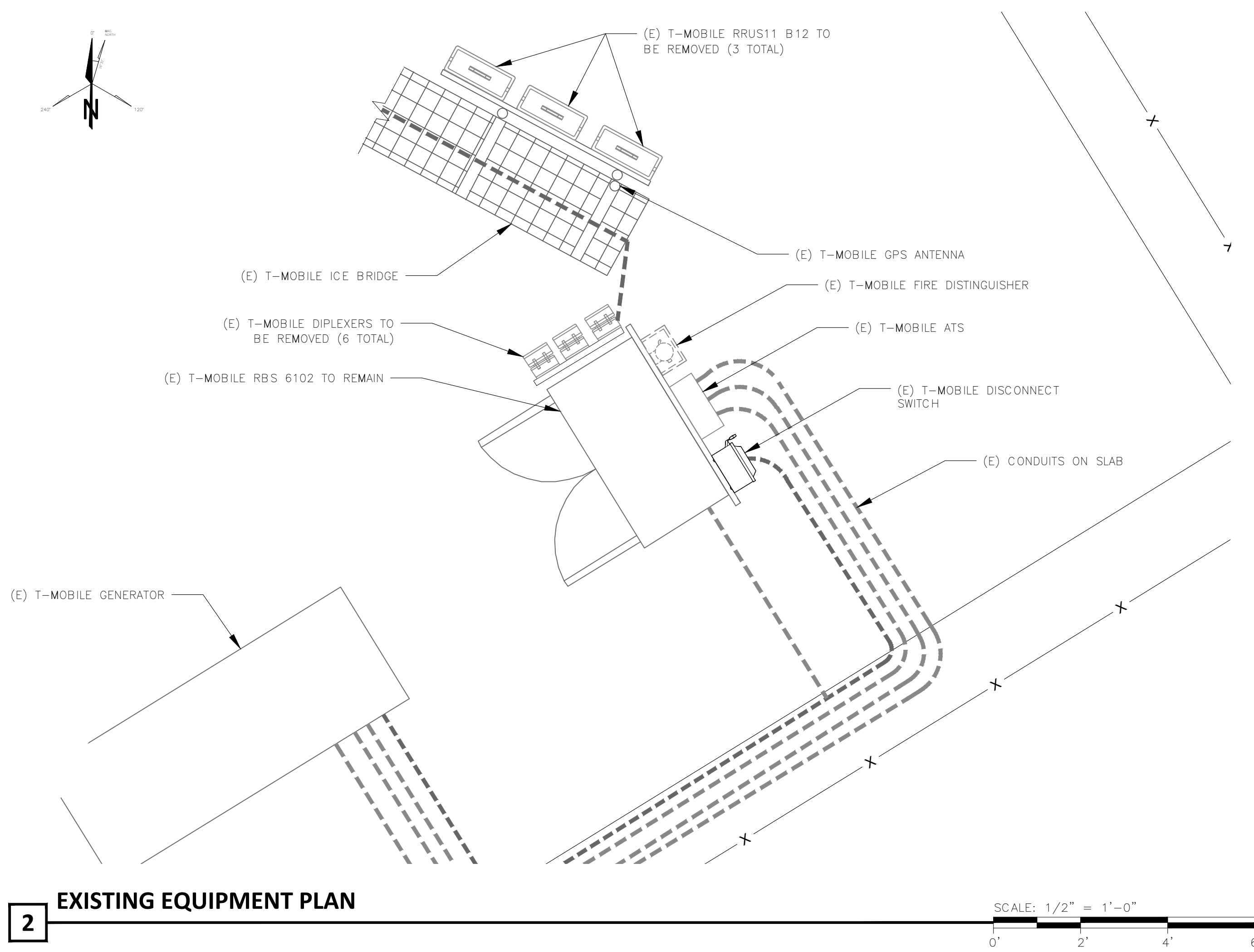
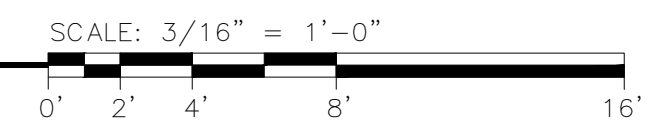
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Sheet Number:  
**A-1**

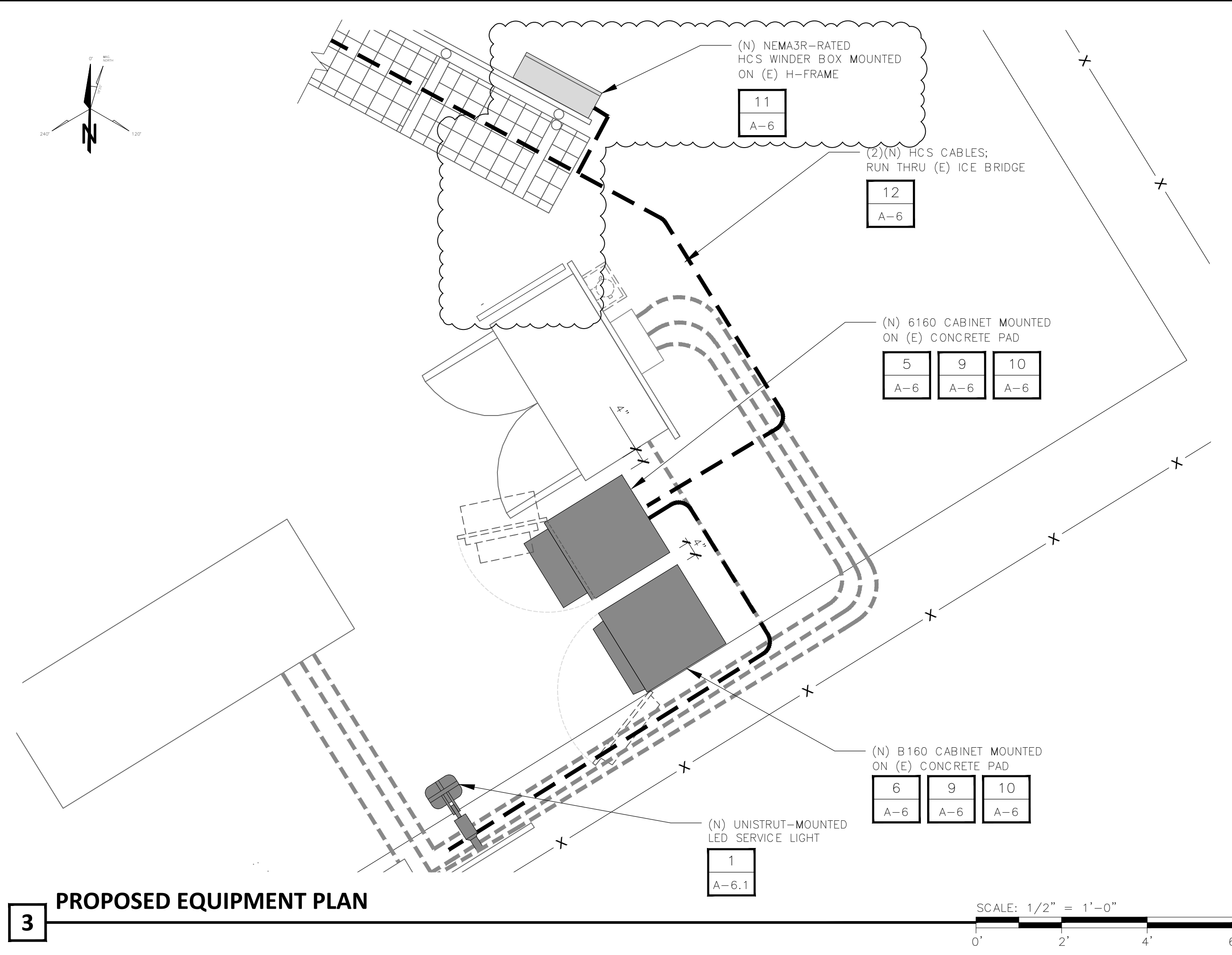
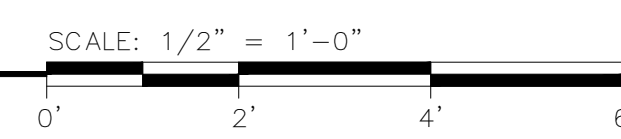




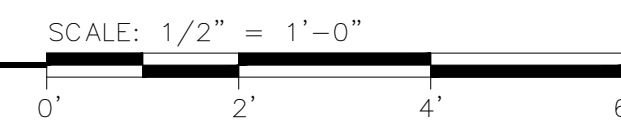
**1** EXISTING AND PROPOSED ANTENNA AND EQUIPMENT PLAN



**2** EXISTING EQUIPMENT PLAN



**3** PROPOSED EQUIPMENT PLAN



Prepared For:  
**T-Mobile**  
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T-Mobile ID:  
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Site Name:  
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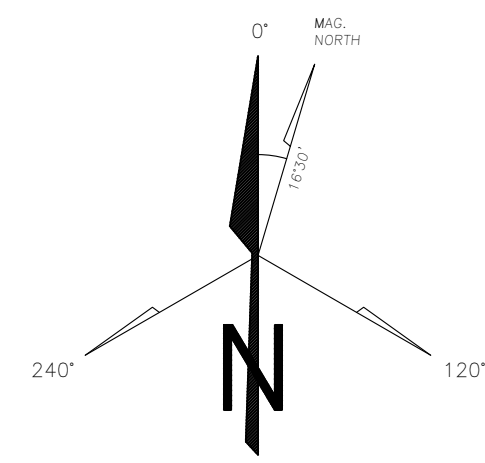
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Sheet Title:  
**EXISTING AND PROPOSED ANTENNA AND EQUIPMENT PLANS**

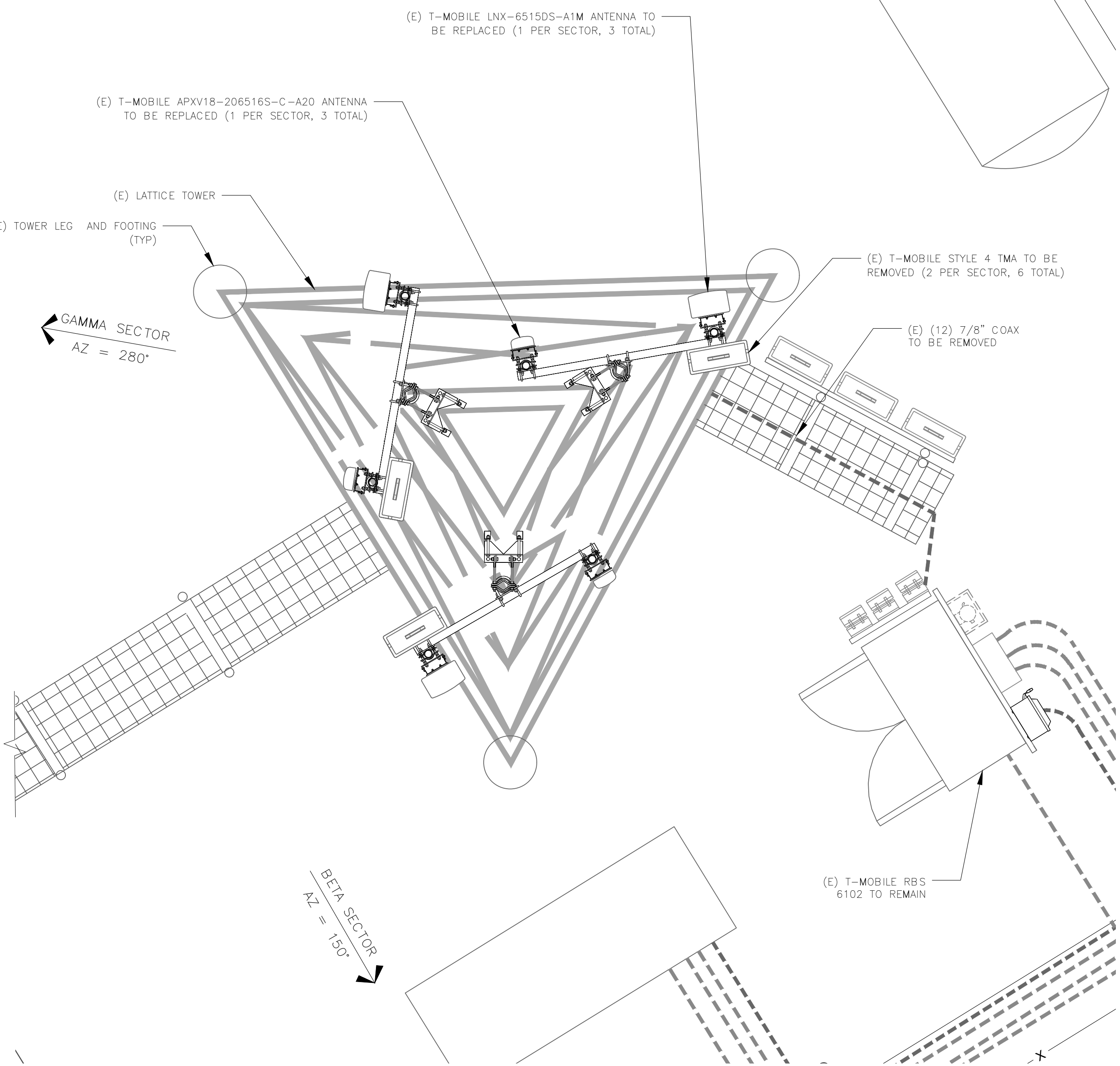
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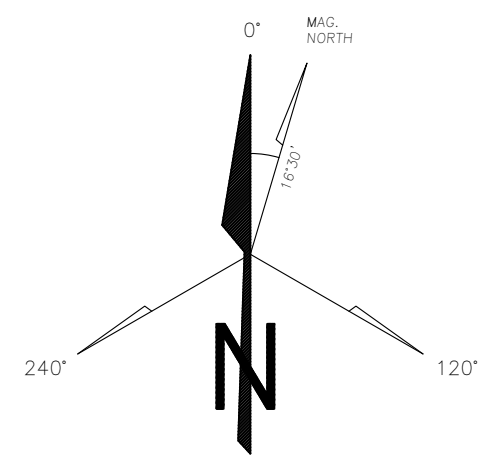
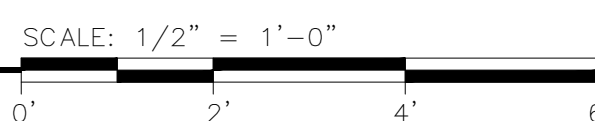




ALPHA SECTOR  
AZ = 350°

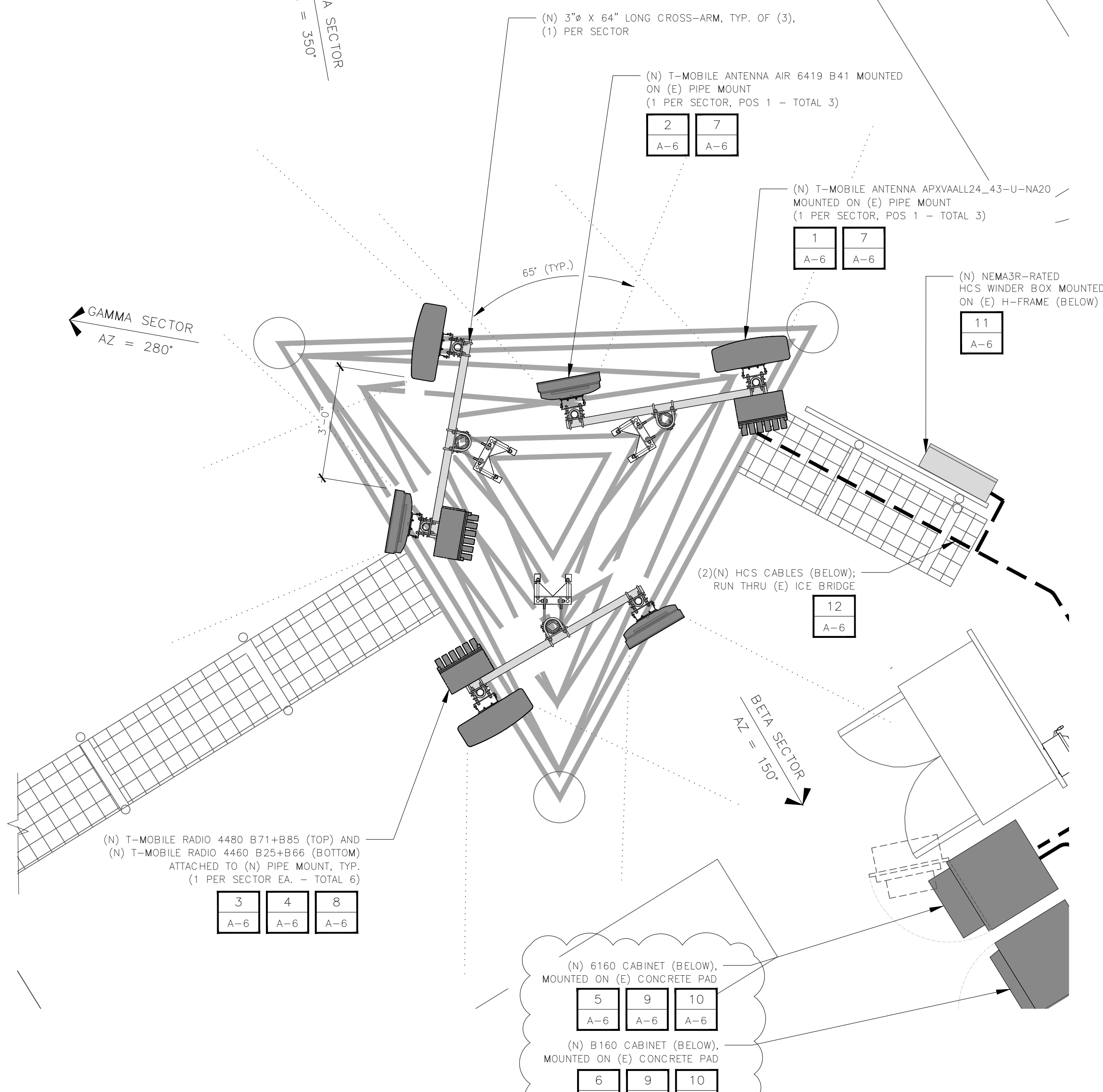


1 EXISTING ANTENNA AND EQUIPMENT PLAN

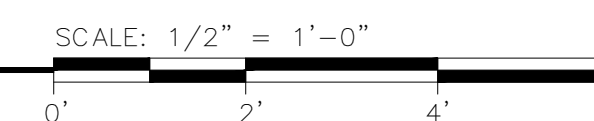


ALPHA SECTOR  
AZ = 350°

GAMMA SECTOR  
AZ = 280°



2 PROPOSED ANTENNA AND EQUIPMENT PLAN



Prepared For:

**T-Mobile**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:

**THE CBR GROUP**  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

T-Mobile ID:

SF40855A

Site Name:

US CELL-HWY 20 GUNTLY

Site Address:

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VALLEY RD  
POTTER VALLEY, CA 95469

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Jurisdiction:

Licensor:

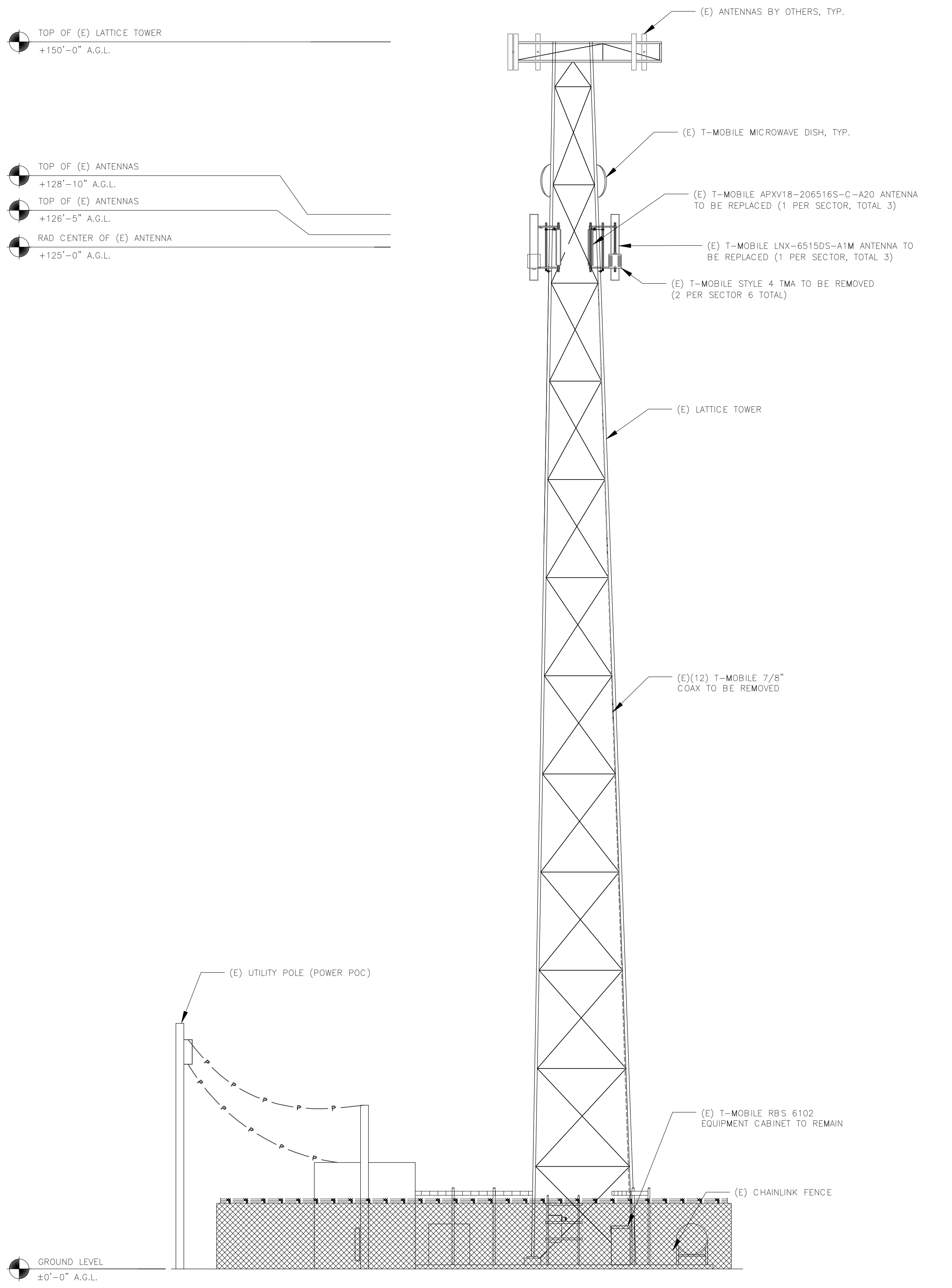
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EXISTING AND PROPOSED  
ANTENNA AND  
EQUIPMENT PLANS

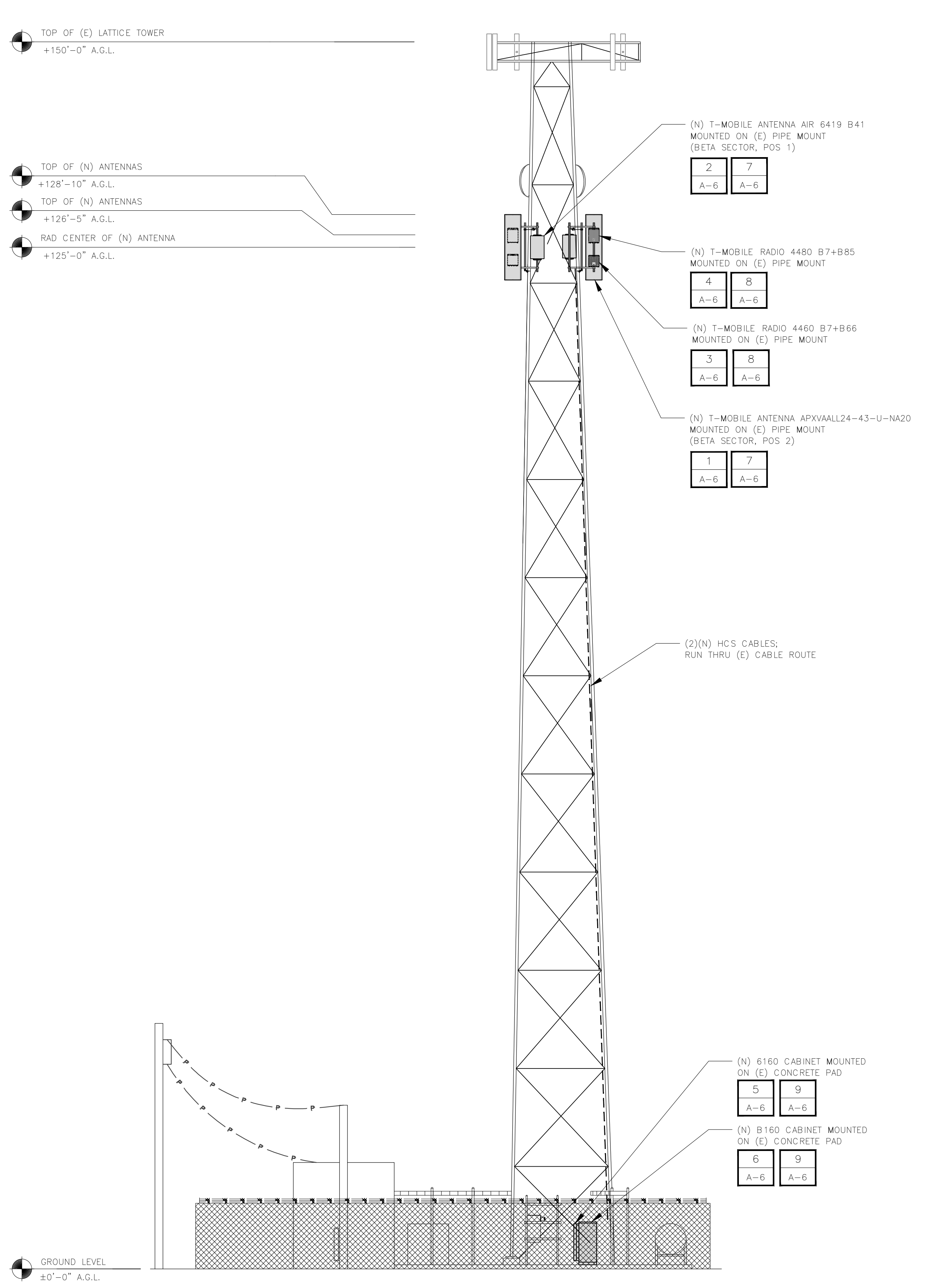
Sheet Number:

**A-2.1**





**1** EXISTING ELEVATION (SOUTHEAST)



**2** PROPOSED ELEVATION (SOUTHEAST)

Prepared For:

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CONCORD, CA 94520

Engineer:

2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
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Site Name:  
**US CELL-HWY 20 GUNTLY**

Site Address:  
**6100 E SIDE POTTER VALLEY RD  
POTTER VALLEY, CA 95469**

Issued For:  
**CONSTRUCTION**

REV	DATE	DESCRIPTION	BY
C	02/27/2024	PLAN CHECK COMMENTS	JD
B	12/28/2023	100%CDs FOR REVIEW	MS
A	11/17/2023	90%CDs FOR REVIEW	SF

Jurisdiction:

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Sheet Title:  
**EXISTING AND PROPOSED ELEVATIONS (SOUTHEAST)**

Sheet Number:  
**A-3**

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Prepared For:

**T-Mobile**  
1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:

**THE CBR GROUP**  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

T-Mobile ID:  
**SF40855A**

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**US CELL-HWY 20 GUNTLY**

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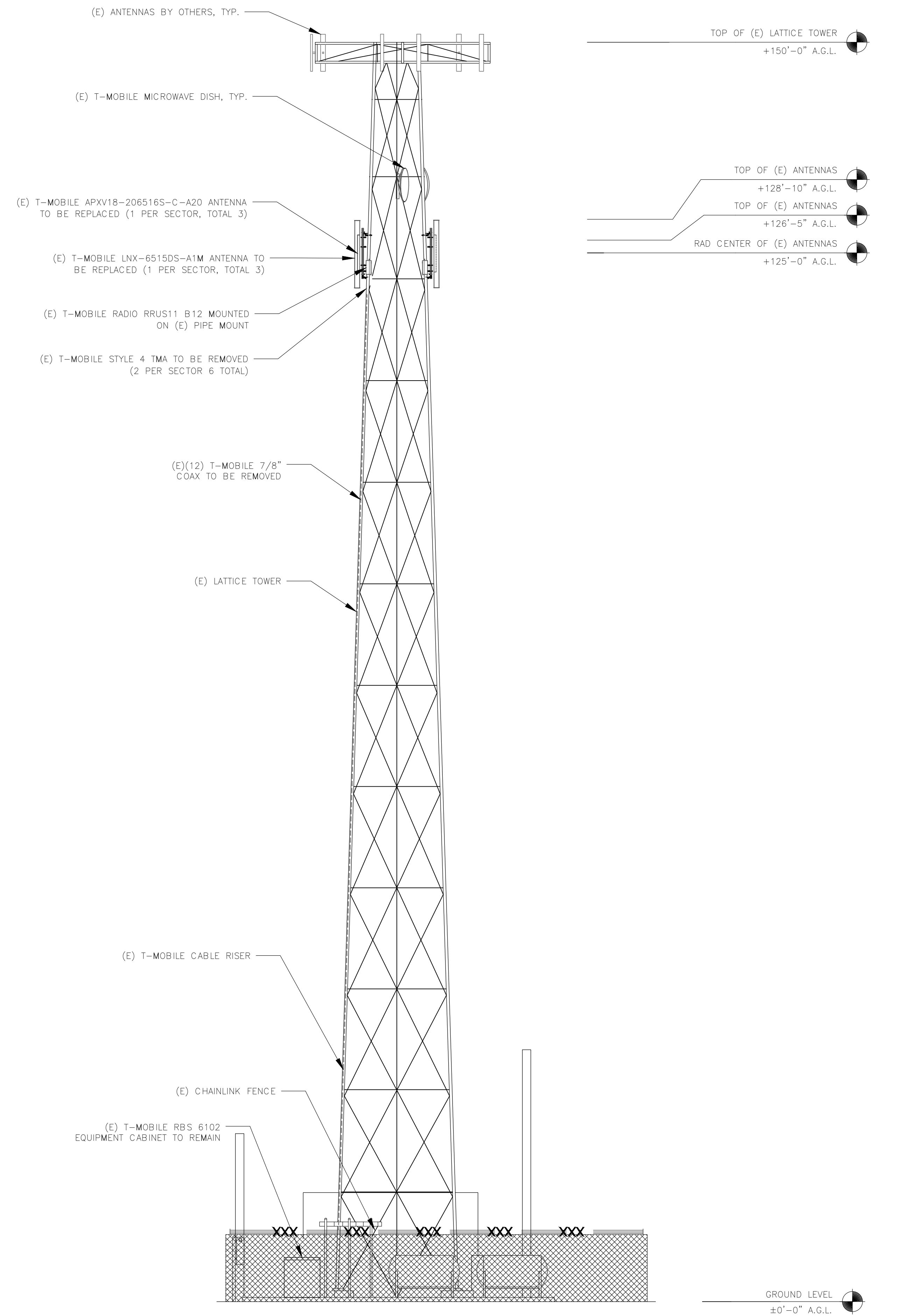
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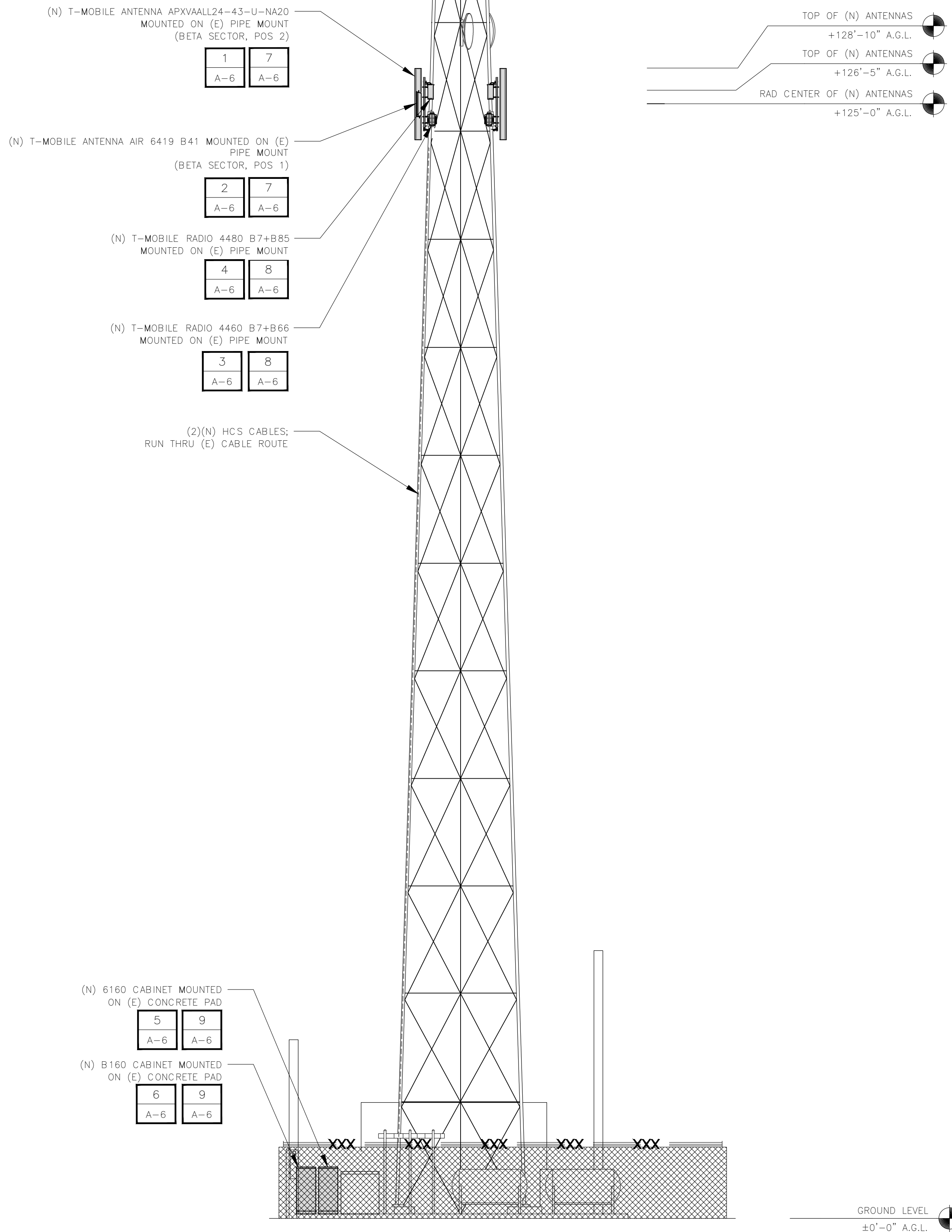
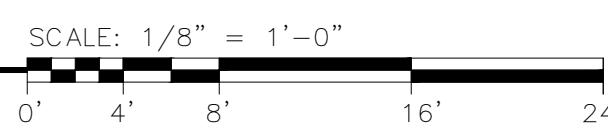
Sheet Title:  
**EXISTING AND PROPOSED ELEVATIONS (NORTHEAST)**

Sheet Number:

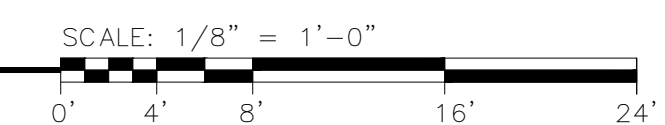
**A-4**



**1** EXISTING ELEVATION (NORTHEAST)



**2** PROPOSED ELEVATION (NORTHEAST)





ALPHA

ANTENNA SCHEDULE  
(VERIFY WITH CURRENT RFDS)

SECTOR	EXISTING/PROPOSED	ANTENNA	SIZE (INCHES) (H X W X D)	ANTENNA RAD CENTER	AZIMUTH	ACTIVE TECHNOLOGY	RADIO (QTY)	TMA / MULTIPLEXER (QTY)	FIBER, COAX TYPE AND QUANTITY (LENGTH)
A1	EXISTING	RFS - APXV18-206516S-C-A20 (DUAL)	53.1" X 6.9" X 3.15"	125'-0"	350'	L2100, G1900	-	(2) COMMSCOPE STYLE 4 - ETM19V2S12UB (E15S09P84)	(2) 7/8" COAX - 140 FT.
	PROPOSED	AIR 6419 B41	33.6" X 20.0" X 6.3"			N2500	-	-	-
A2	EXISTING	ANDREW - LNX-6515DS-A1M (DUAL)	96.6" X 11.85" X 7.1"	125'-0"	350'	L700	(1) RRUS11 B12	-	(2) 7/8" COAX - 140 FT.
	PROPOSED	RFS - APXVAALL24_43-U-NA20 (OCTO)	96.0" X 24.0" X 8.9"			L700, L1900, L2100, N600, N1900, G1900	(1) RADIO 4480 B71+B85, (1) RADIO 4460 B25+B66	-	(8) COAX JUMPER - 10 FT.

BETA

ANTENNA SCHEDULE  
(VERIFY WITH CURRENT RFDS)

SECTOR	EXISTING/PROPOSED	ANTENNA	SIZE (INCHES) (H X W X D)	ANTENNA RAD CENTER	AZIMUTH	ACTIVE TECHNOLOGY	RADIO (QTY)	TMA / MULTIPLEXER (QTY)	FIBER, COAX TYPE AND QUANTITY (LENGTH)
B1	EXISTING	RFS - APXV18-206516S-C-A20 (DUAL)	53.1" X 6.9" X 3.15"	125'-0"	150'	L2100, G1900	-	(2) COMMSCOPE STYLE 4 - ETM19V2 S12UB (E15S09P84)	(2) 7/8" COAX - 140 FT.
	PROPOSED	AIR 6419 B41	33.6" X 20.0" X 6.3"			N2500	-	-	-
B2	EXISTING	ANDREW - LNX-6515DS-A1M (DUAL)	96.6" X 11.85" X 7.1"	125'-0"	150'	L700	(1) RRUS11 B12	-	(2) 7/8" COAX - 140 FT.
	PROPOSED	RFS - APXVAALL24_43-U-NA20 (OCTO)	96.0" X 24.0" X 8.9"			L700, L1900, L2100, N600, N1900, G1900	(1) RADIO 4480 B71+B85, (1) RADIO 4460 B25+B66	-	(8) COAX JUMPER - 10 FT.

GAMMA

ANTENNA SCHEDULE  
(VERIFY WITH CURRENT RFDS)

SECTOR	EXISTING/PROPOSED	ANTENNA	SIZE (INCHES) (H X W X D)	ANTENNA RAD CENTER	AZIMUTH	ACTIVE TECHNOLOGY	RADIO (QTY)	TMA / MULTIPLEXER (QTY)	FIBER, COAX TYPE AND QUANTITY (LENGTH)
C1	EXISTING	RFS - APXV18-206516S-C-A20 (DUAL)	53.1" X 6.9" X 3.15"	125'-0"	280'	L2100, G1900	-	(2) COMMSCOPE STYLE 4 - ETM19V2 S12UB (E15S09P84)	(2) 7/8" COAX - 140 FT.
	PROPOSED	AIR 6419 B41	33.6" X 20.0" X 6.3"			N2500	-	-	-
C2	EXISTING	RFS - APXVF24-C-A20 (DUAL)	93" X 14.6" X 6.9"	125'-0"	280'	L700	(1) RRUS11 B12	-	(2) 7/8" COAX - 140 FT.
	PROPOSED	RFS - APXVAALL24_43-U-NA20 (OCTO)	96.0" X 24.0" X 8.5"			L700, L1900, L2100, N600, N1900, G1900	(1) RADIO 4480 B71+B85, (1) RADIO 4460 B25+B66	-	(8) COAX JUMPER - 10 FT.

EXISTING EQUIPMENT SCHEDULE (AT EQUIPMENT AREA)

ENCLOSURE TYPE	DESCRIPTION
RBS 6102 MU AC	
RADIO	(3) RUS01 B2 (G1900), (3) RUS01 B2 (U1900-DECOMMISSIONED), (6) RUS01 B4 (L2100)
BASEBAND	BB 6630 (L2100, L700), DUG20 (G1900), DUW30 (U1900-DECOMMISSIONED)

PROPOSED EQUIPMENT SCHEDULE (AT EQUIPMENT AREA)

ENCLOSURE TYPE	ENCLOSURE 6160-V2 AC	RBS 6102	B160
BASEBAND	RP6651 (N2500), RP 6651 (N600, L700)	BB 6630 (N600, L700, L2100), DUG20 (G1900)	-
TRANSPORT SYSTEM	CSR IXRE V2 (GEN2)	-	-
HYBRID CABLE SYSTEM	HYBRID TRUNK 6/24 4AWG 50M	HYBRID TRUNK 6/24 4AWG 50M	-

RAN SCOPE OF WORK  
(VERIFY LATEST RFDS)

CABINET SOW: REUSE THE (1) RBS 6102. ADD: (1) E6160; (1) B160.  
HCS SOW: (2) ERICSSON HYBRID TRUNK 6X24 4AWG 50M.  
PER SECTOR RRU SOW: THIS PROJECT WILL REMOVE (1) RRUS11 B12 (AT CABINET); ADD (1) RADIO 4480 (AT ANTENNA); ADD (1) RADIO 4460 (AT ANTENNA);  
PER SECTOR ANTENNA SOW: THIS PROJECT WILL SWAP AN (1) RRFS-APX18-206516S-C-A20 (DUAL) FOR AN (1) ERICSSON - AIR 6419 B41 (ACTIVE ANTENNA - MASSIVE MIMO); SWAP AN(1) ANDREW - LNX-6515DS-A1M (DUAL) FOR AN (1) RFS - APX18-206516S-C-A20 (DUAL) FOR AN (1) ERICSSON - AIR6419 B41 (ACTIVEANTENNA - MASSIVE MIMO); SWAP AN (1) ANDREW - LNX-6515DS-A1M (DUAL) FOR AN (1) RFS - APXVAALL24\_43-U-NA20 (8FT. OCTO);  
PER SECTOR COAX SOW: REMOVE (4) 7/8" COAX ADD  
PER SECTOR DIPLEXER SOW: REMOVE (2) ERICSSON AWS/PCS - KRF 102 267/1 (AT CABINET);  
PER SECTOR TMA SOW: REMOVE (2) COMMSCOPE STYLE 4 - ETM19V2S12UB (E15S09P84) (AT ANTENNA);  
ANTENNA MOUNT SOW: INSTALL NEW MOUNTS - 3 SECTOR 3 POSITION DUAL HORIZONTAL PIPE MOUNTS WITH MINIMUM 9 FT. FACE. MAINTAIN A MINIMUM OF 38' HORIZONTAL SEPARATION BETWEEN CLOSEST EDGES OF LOWBAND ANTENNA AND OTHER ANTENNAS/OBJECTS AND A MINIMUM 14" SEPARATION BETWEEN CLOSEST EDGES OF MIDBAND ANTENNAS/OBJECTS. ANTENNAS SHOULD BE MOUNTED PERPENDICULAR TO THE FACE THEY ARE MOUNTED ON. THE LIMIT OF DEVIATION ALLOWED IS 15' FROM THIS STANDARD.  
PROPOSED RAN: CONFIGURATION - 67E50998E HYBRID, CABINETS - (1) RBS 6102; (1) 6160; (1) B160; BASEBAND - (1) BB6630 FOR AWS/PCS/LOWBAND; (1) DUG20; (1) RP 6651 FOR N25; HCS - (2) ERICSSON HYBRID TRUNK 6X24 4AWG 50M; ROUTER - (1) IXRE  
PROPOSED A&L: ANTENNA PER SECTOR - POS 1: (1) ERICSSON - AIR Z A 6419 B41 (ACTIVE ANTENNA - MASSIVE MIMO); POS 2: (1) RFS - APXVAALL24\_43-U-NA20 (8FT OCTO); POS 3: RRU PER SECTOR - (1) RADIO 4480 (AT ANTENNA); (1) RADIO 4460 (AT ANTENNA); CABLES PER SECTOR - (4) COAX JUMPER - 10 FT. FROM RADIO 4460 TO (1) RFS - APXVAALL24\_43-U-NA20 (8FT OCTO). (4) COAX JUMPER - 10 FT. FROM RADIO 4480 TO (1) RFS-APXVAALL24\_43-U-NA20 (8FT. OCTO); AZIMUTHS - 350', 150', 275'; RC - MATCH EXISTING FT.

Prepared For:



Engineer:



T-Mobile ID:

SF40855A

Site Name:

US CELL-HWY 20 GUNTLY

Site Address:

6100 E SIDE POTTER VALLEY RD  
POTTER VALLEY, CA 95469

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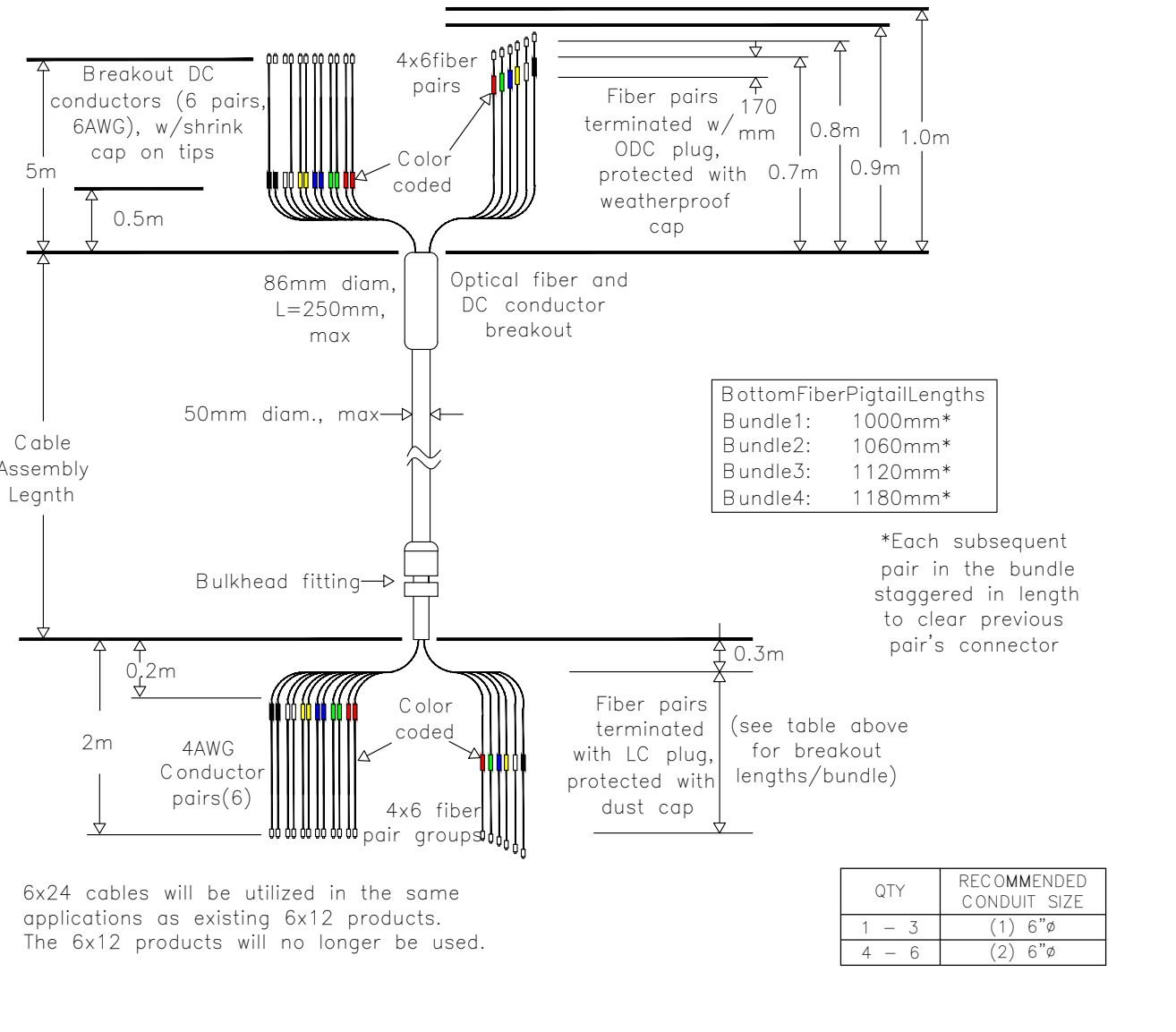
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ANTENNA AND EQUIPMENT SCHEDULE

Sheet Number:

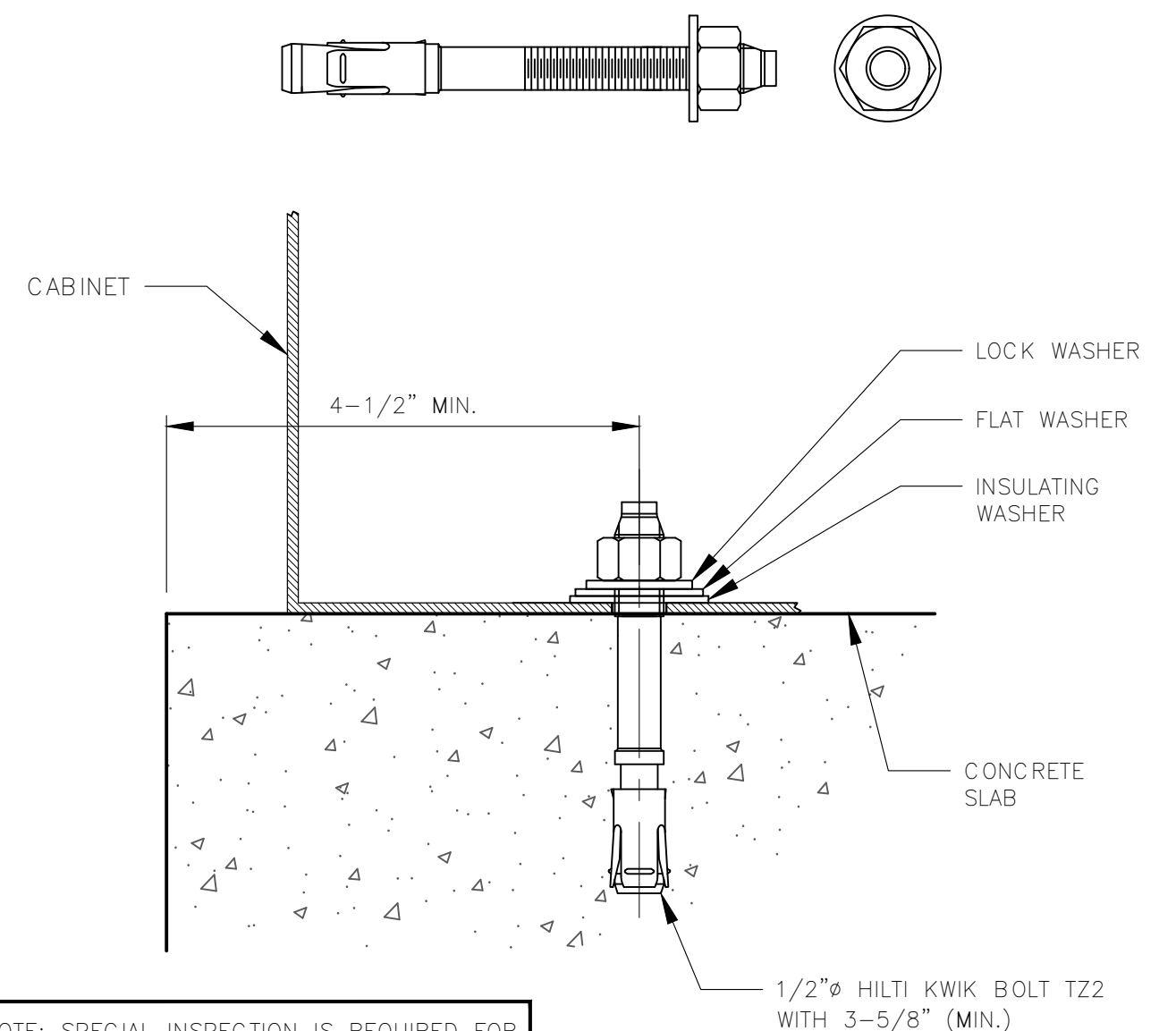
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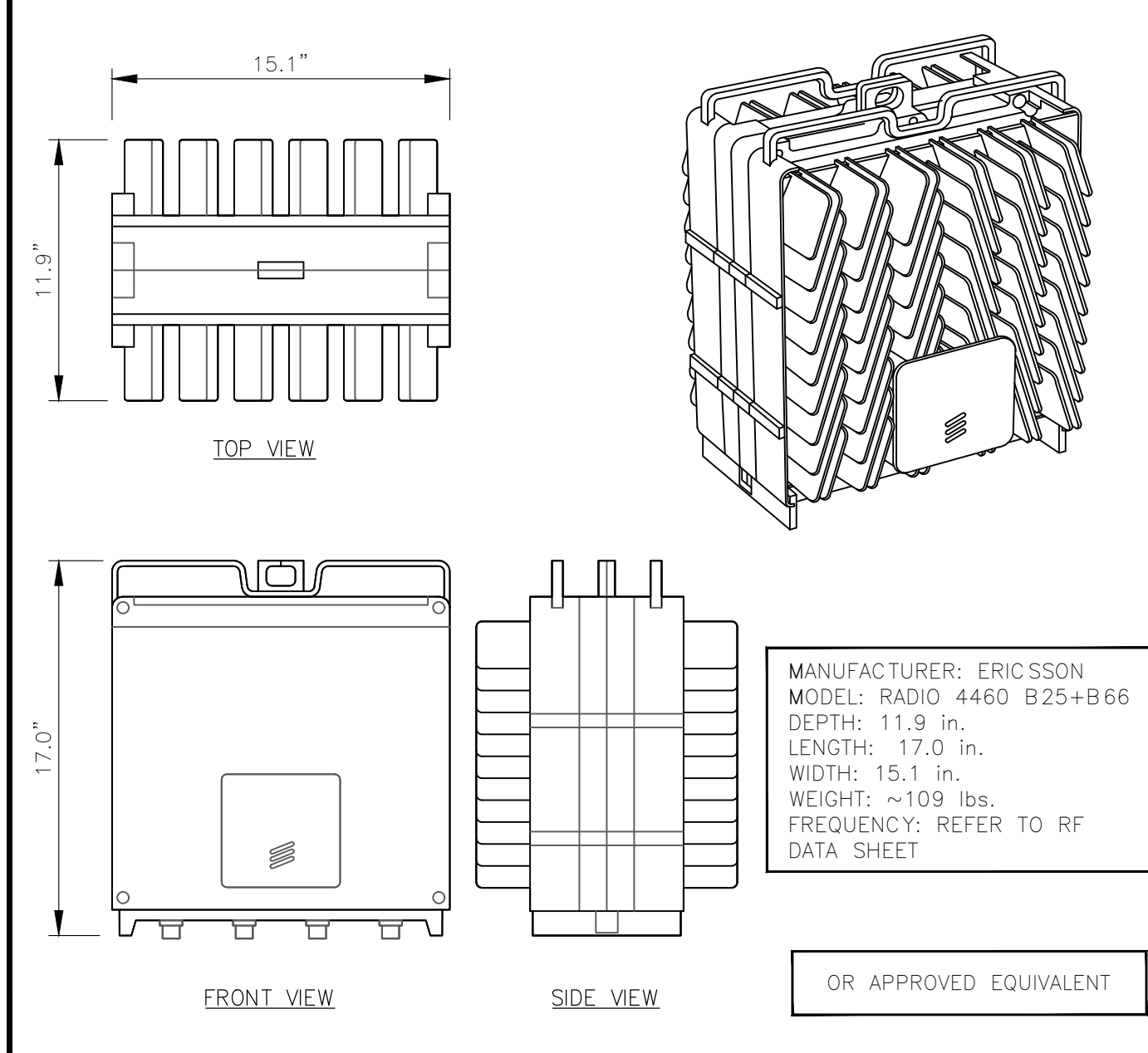
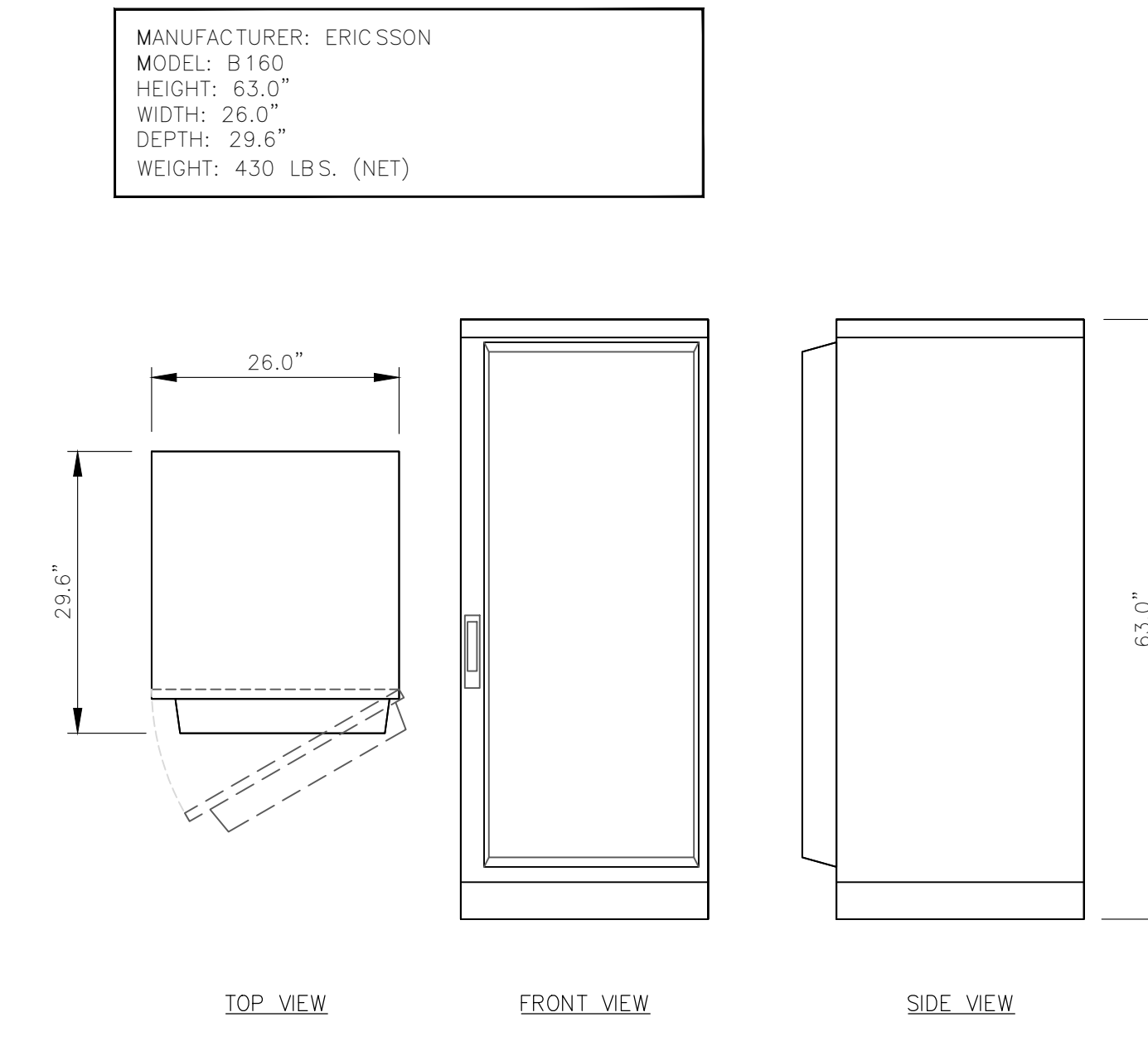


NOTE/S:

- GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY HCS SUPPORT REQUIRED BY T-MOBILE.



NOTE: SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF THE ANCHOR BOLTS ACCORDING TO ICC-ESR #4266

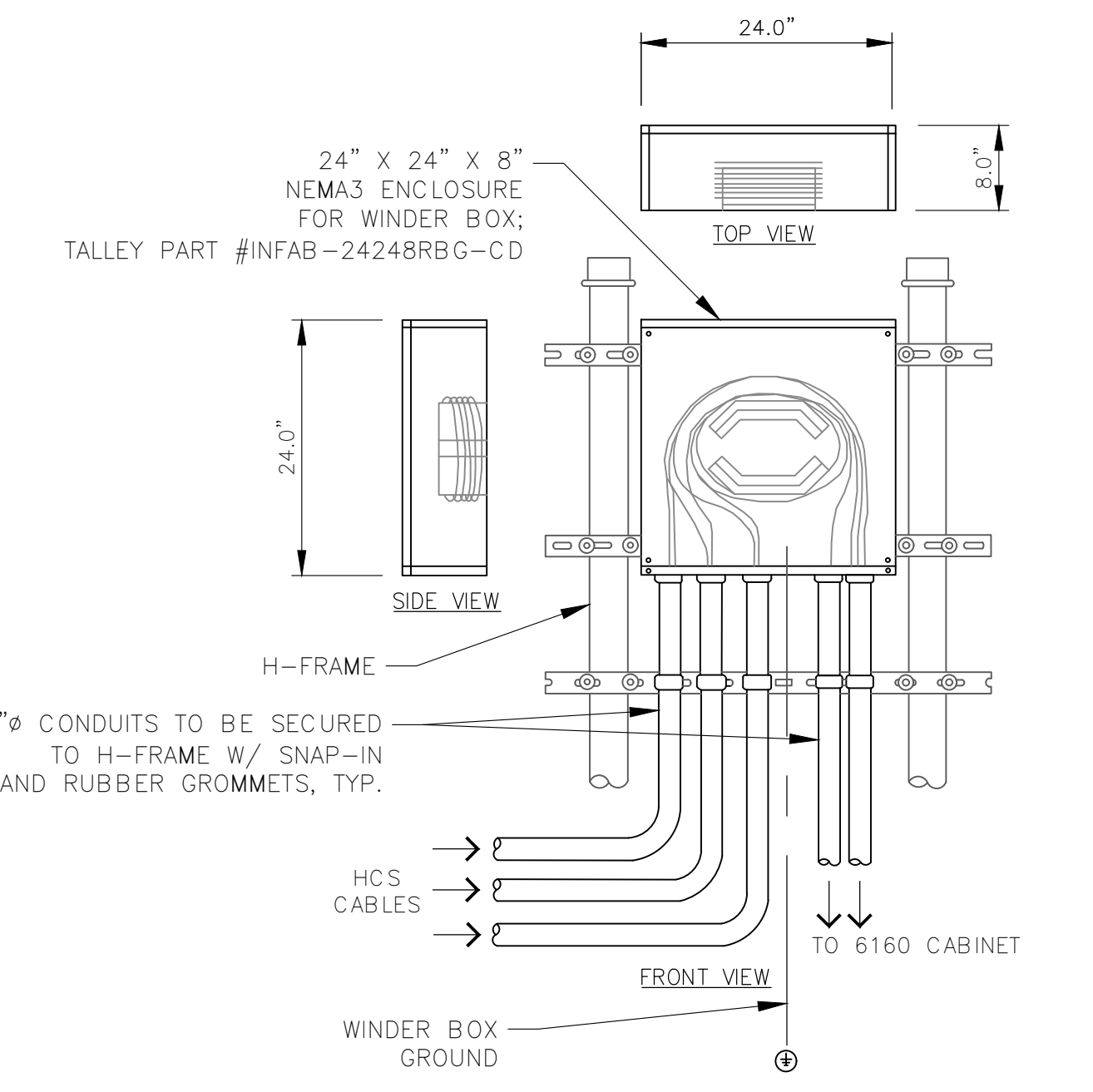


6x24 HYBRID CABLE SYSTEM SCALE: N.T.S. 12

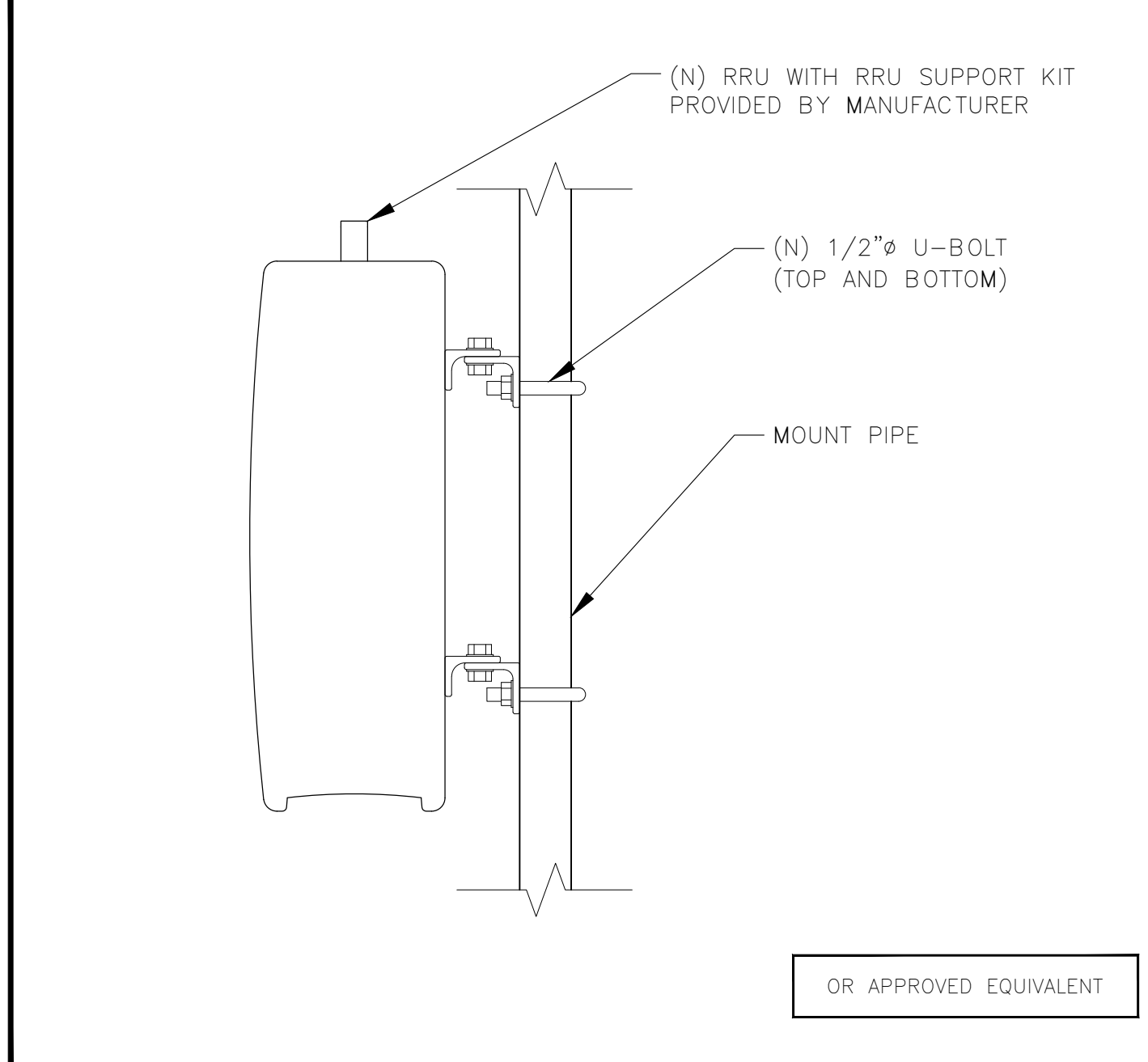
CABINET ANCHORAGE DETAIL SCALE: N.T.S. 9

B160 CABINET DETAIL SCALE: N.T.S. 6

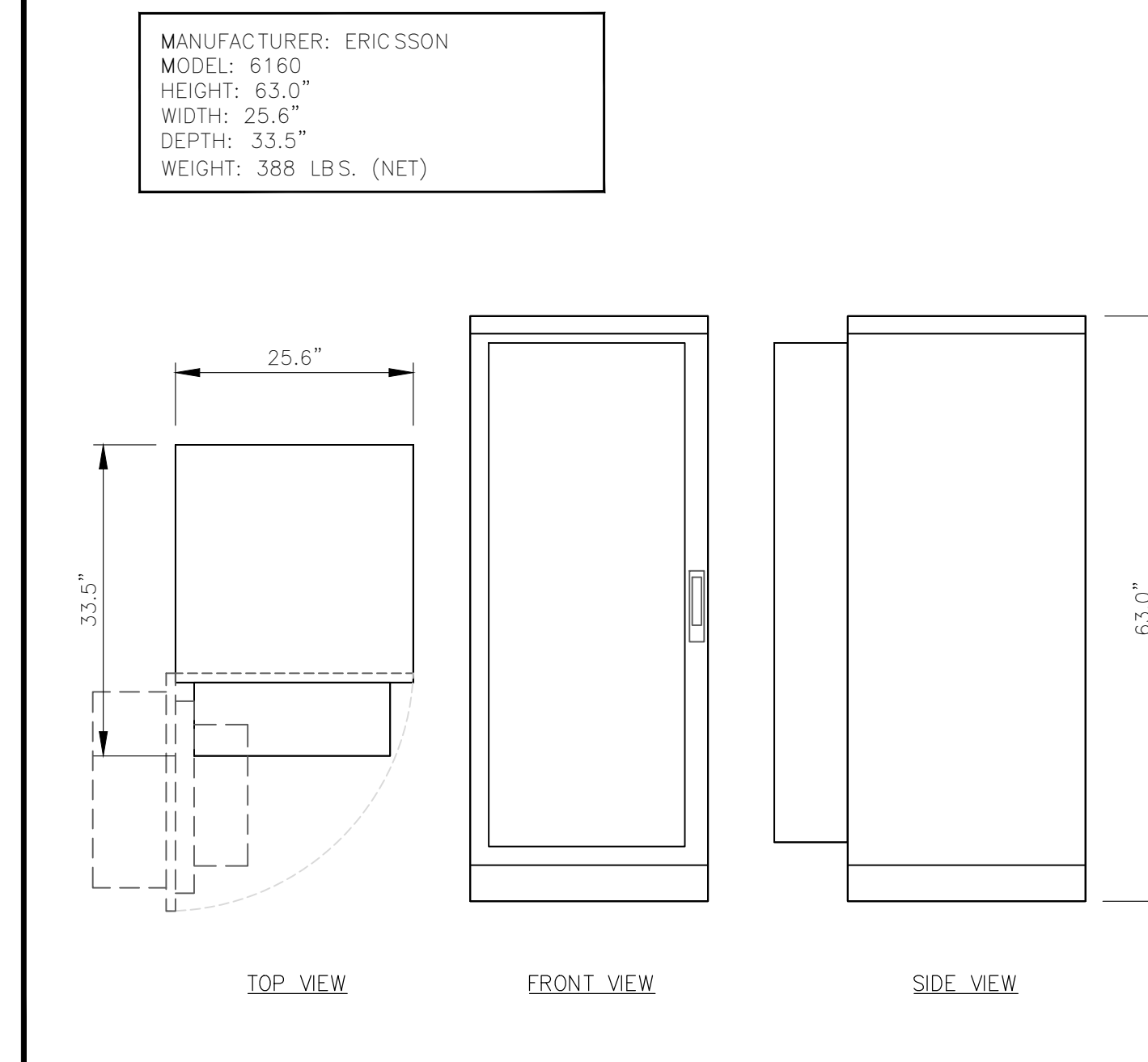
RADIO 4460 DETAIL SCALE: N.T.S. 3



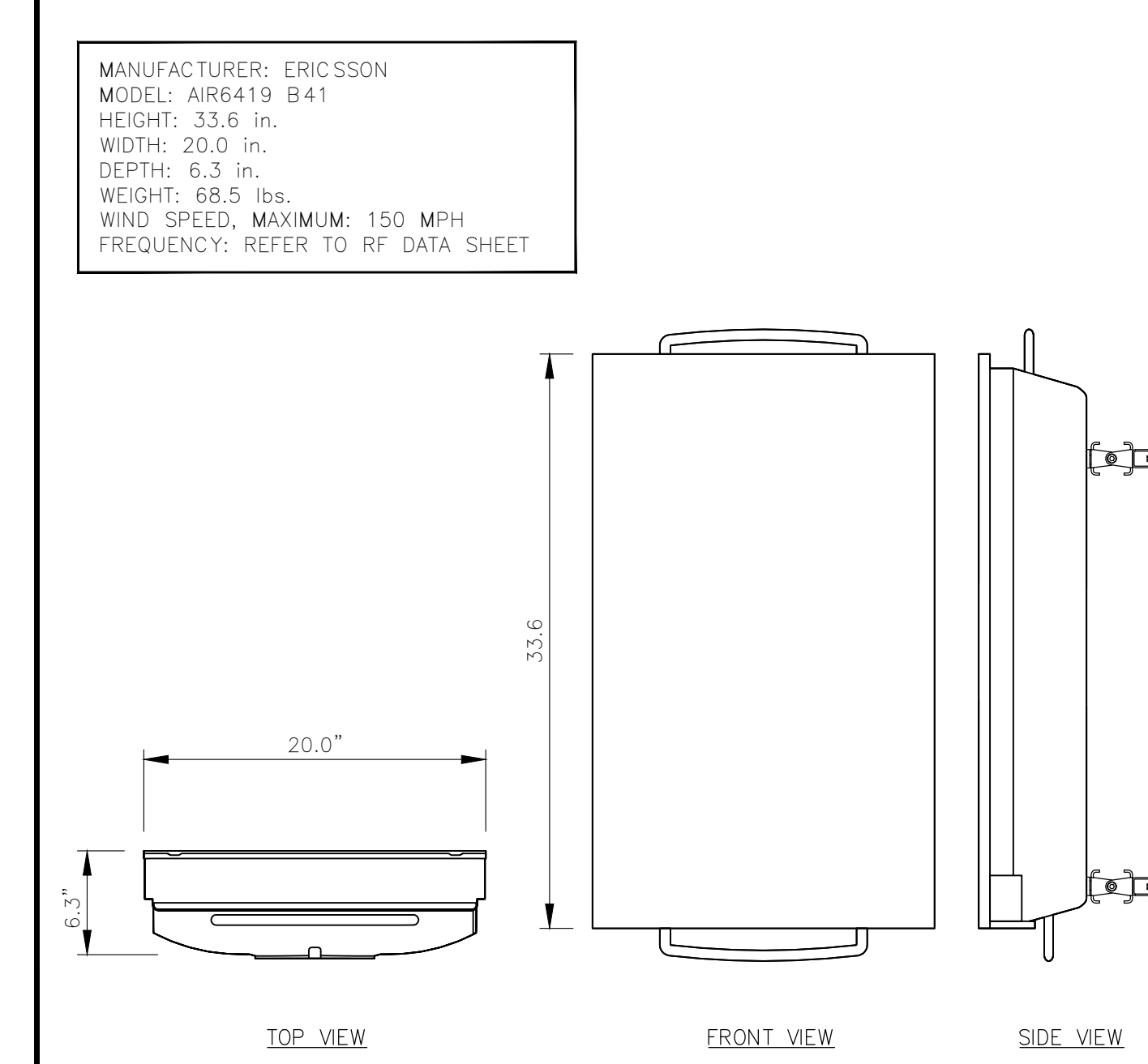
WINDER BOX DETAIL SCALE: N.T.S. 11



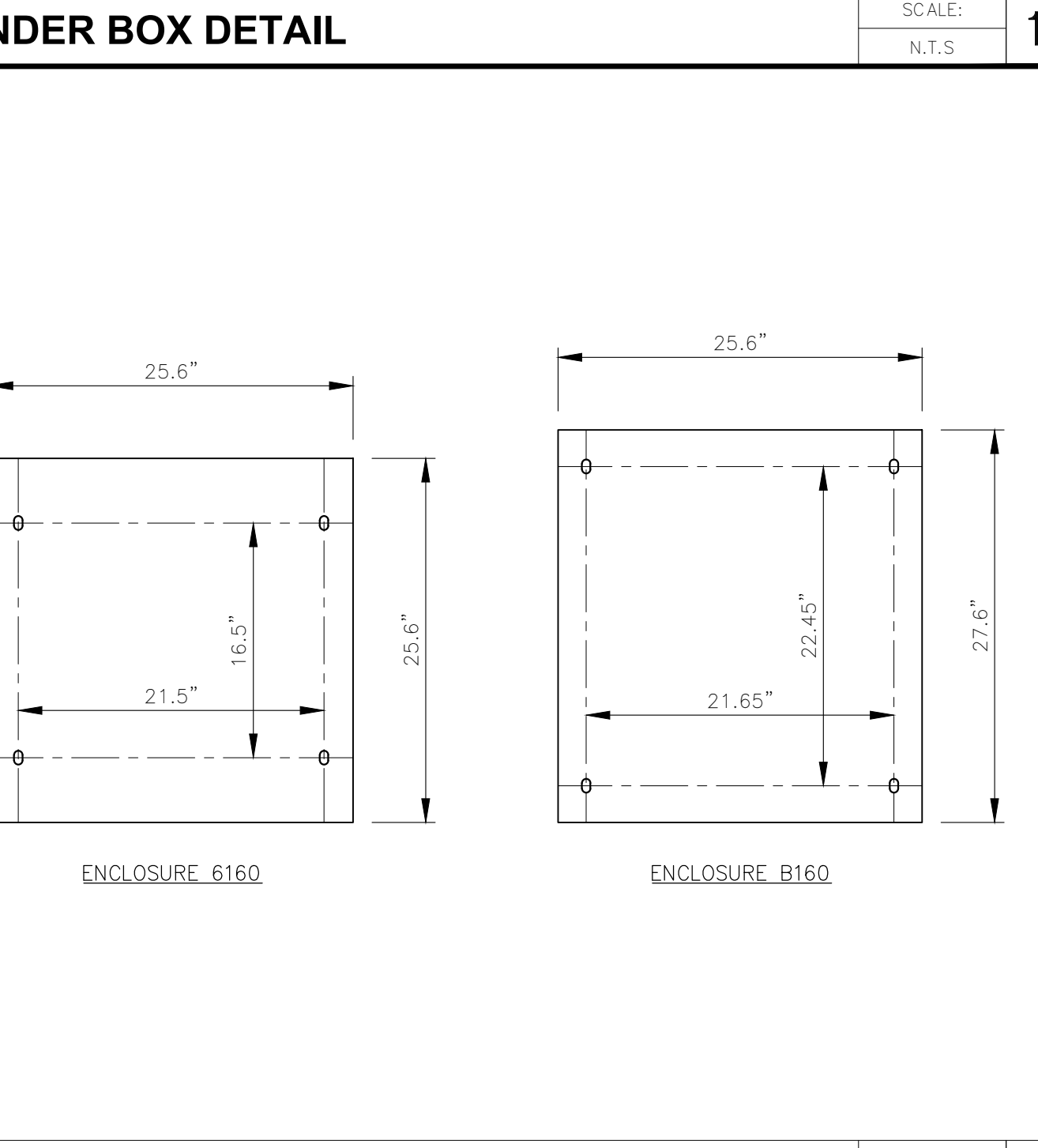
RADIO MOUNT TO MOUNT PIPE DETAIL SCALE: N.T.S. 8



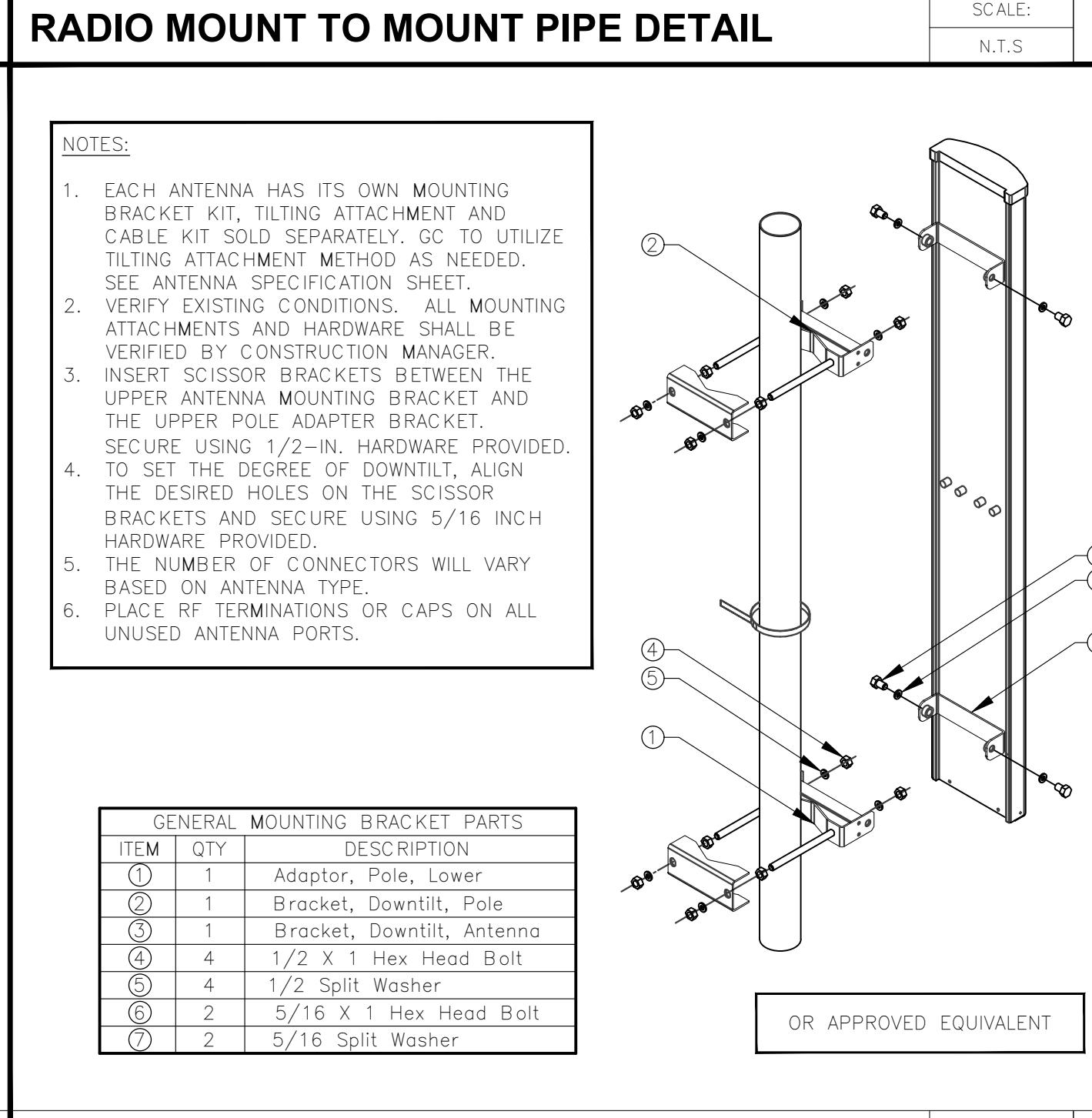
6160 CABINET DETAIL SCALE: N.T.S. 5



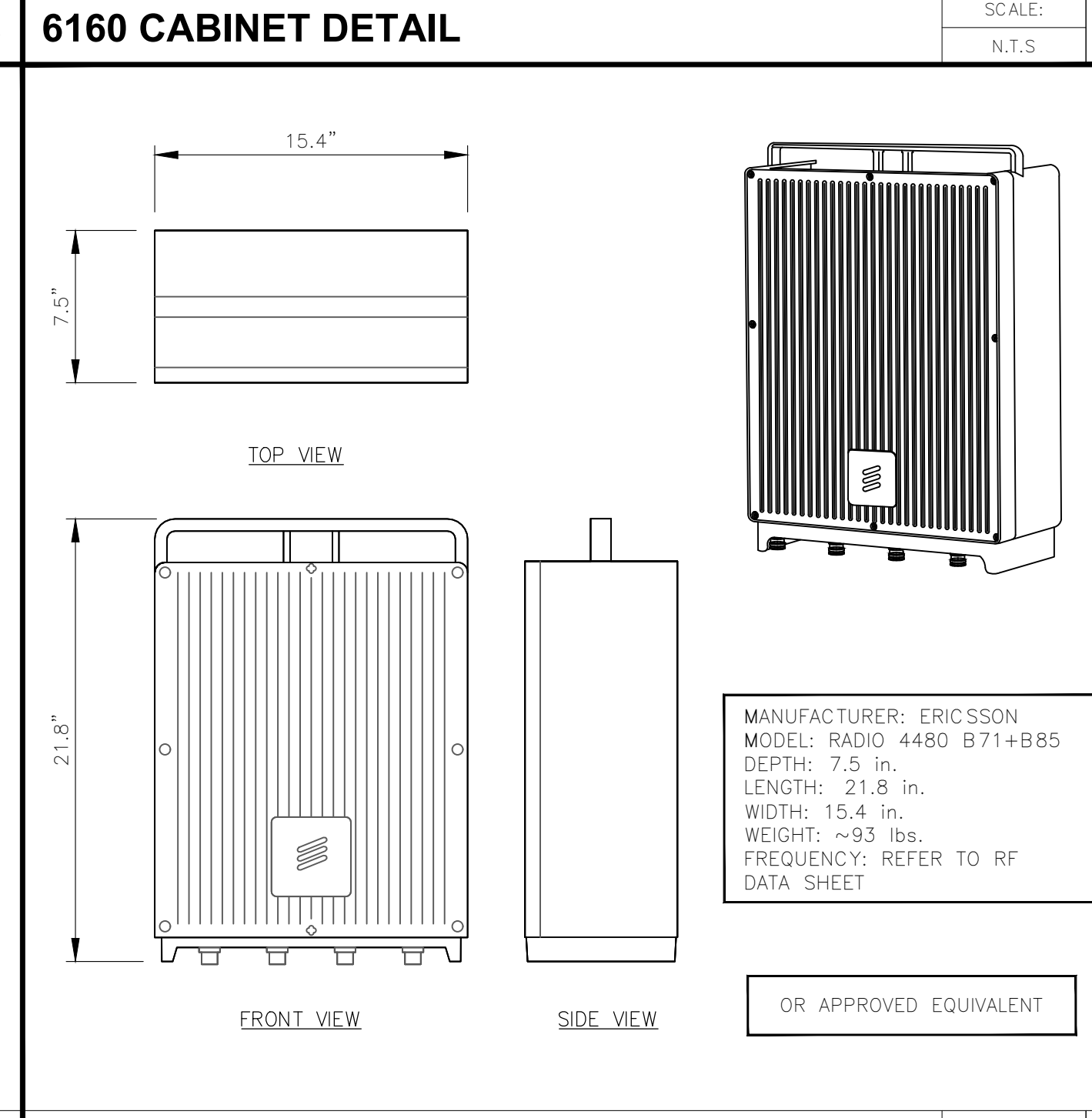
AIR6419 DETAIL SCALE: N.T.S. 2



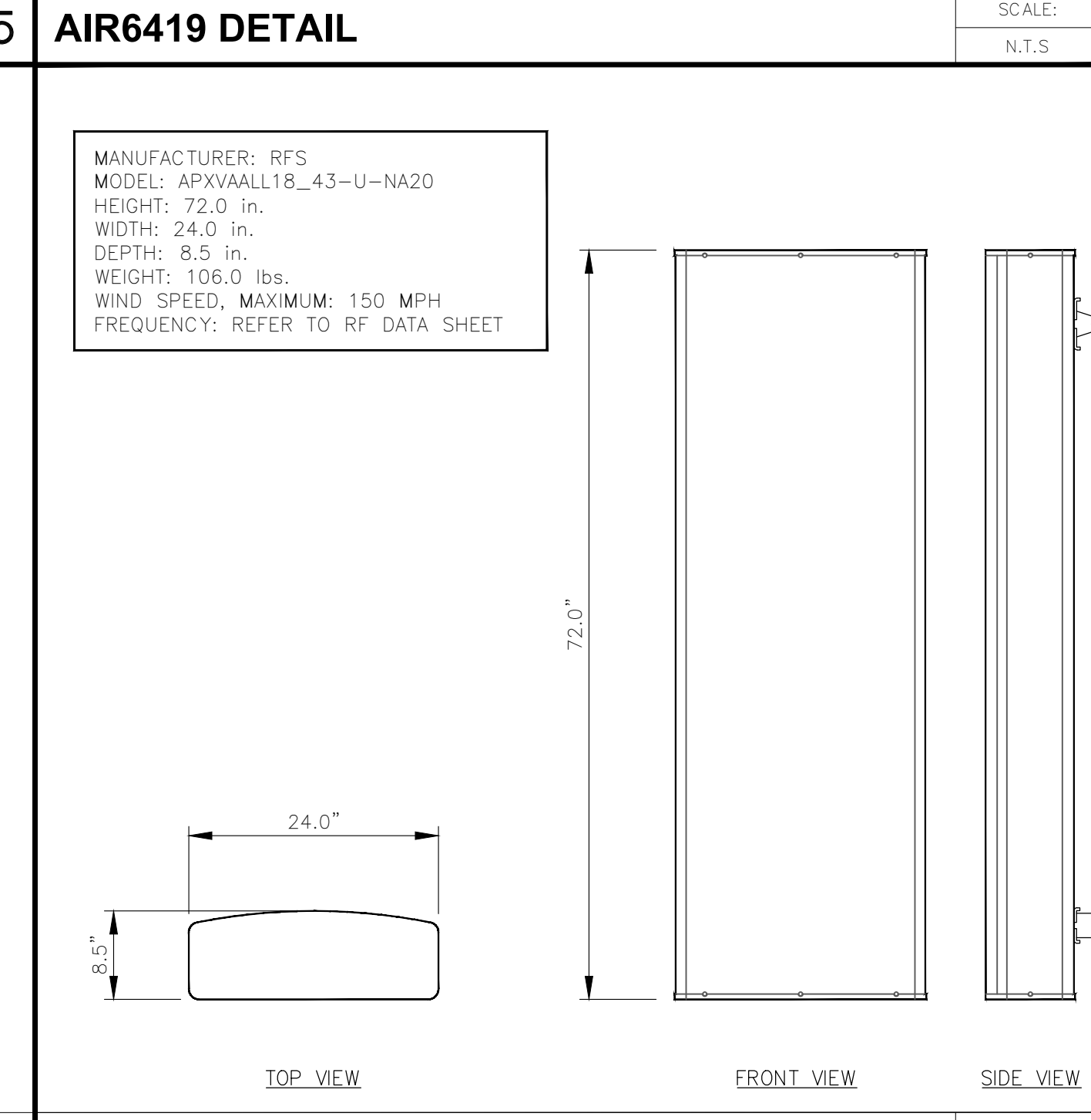
CABINET BOLT PATTERN SCALE: N.T.S. 10



ANTENNA MOUNTING DETAIL SCALE: N.T.S. 7



RADIO 4480 DETAIL SCALE: N.T.S. 4



APXVAALL18\_43-U-NA20 DETAIL SCALE: N.T.S. 1

Prepared For:

1200 CONCORD AVENUE, SUITE 500  
CONCORD, CA 94520

Engineer:

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MARTINEZ, CA 94553  
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Sheet Title:  
DETAILS

Sheet Number:  
A-6

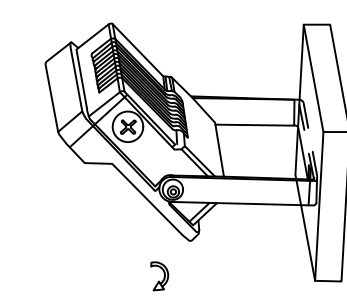
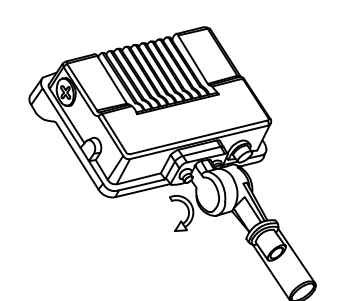
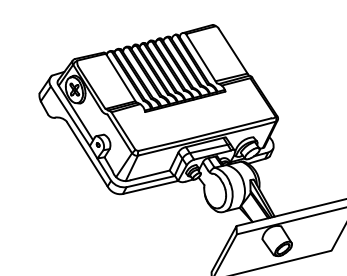
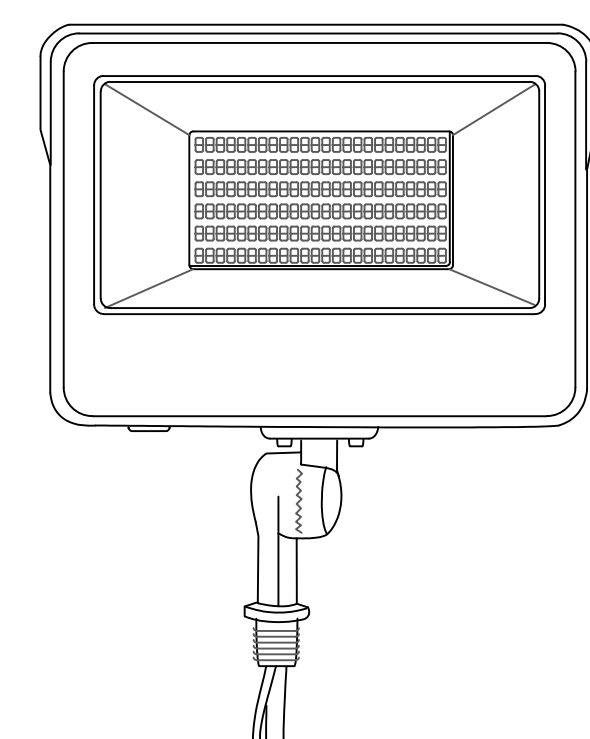


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NOT USED		SCALE: N.T.S	10	NOT USED		SCALE: N.T.S	7	NOT USED		SCALE: N.T.S	4	LED SERVICE LIGHT		SCALE: N.T.S	1

MANUFACTURER: NUVO (SATCO)  
 MODEL: 65-541  
 DIMENSIONS: 7.24"H X 9.91"W X 2.44"D  
 WEIGHT: 1.14 LBS. (NET)

ELECTRICAL INFO:  
 WATTAGE: 15W/25W/35W  
 LUMEN OUTPUT: 1800L-4900L  
 TECHNOLOGY: LED  
 FIXTURE TYPE: FLOOD LIGHT  
 LENS MATERIAL: TEMPERED GLASS  
 MATERIAL: DIE-CAST ALUMINUM



MOUNT\_OPTIONS

Prepared For:

1200 CONCORD AVENUE, SUITE 500  
 CONCORD, CA 94520

Engineer:

2840 HOWE ROAD, SUITE E  
 MARTINEZ, CA 94553  
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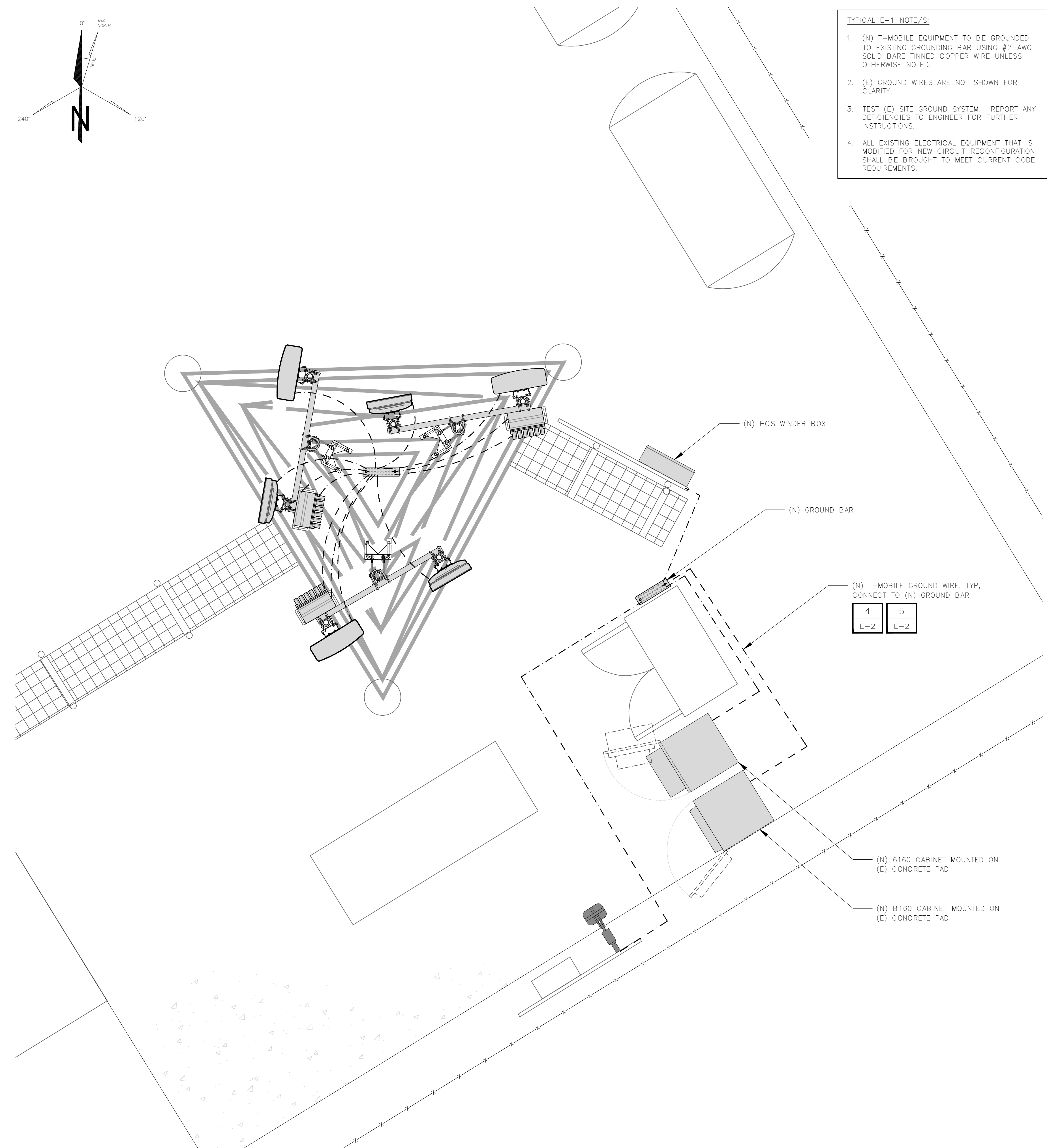
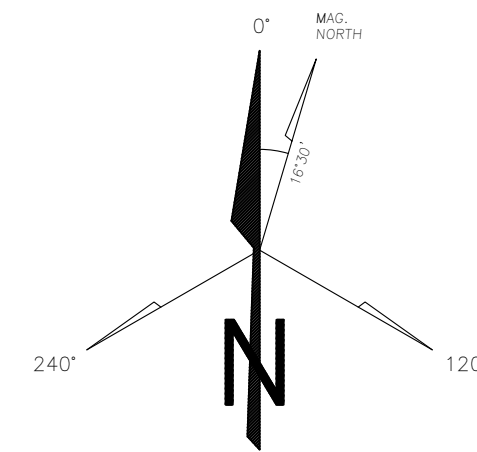
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Sheet Number: A-6.1



**GENERAL ELECTRICAL NOTES**

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONTRACTOR MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID, FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT LIMITED TO:
  - UL - UNDERWRITERS LABORATORIES
  - CEC - CALIFORNIA ELECTRICAL CODE
  - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
  - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
  - CBC - CALIFORNIA BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICE: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICE WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATED THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY T-MOBILE.
- ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER, THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DAY OF FINAL ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURING OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS, EXCAVATION, AND BACKFILLING.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON LIST OF U.L. APPROVAL ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CEC AND NEMA.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTOR RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NON-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 2020. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIDGE CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY CEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER TYPE THWN. INSULATION, 800 VOLT, COLOR CODED, USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS, CONTRACTORS SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO.10 AWG AND SMALLER USE SOLDERLESS MECHANICAL. TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 120/240V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL, AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
- ALL BOLTS SHALL BE STAINLESS STEEL.



TYPICAL E-1 NOTE/S:

- (N) T-MOBILE EQUIPMENT TO BE GROUNDED TO EXISTING GROUNDING BAR USING #2-AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY.
- TEST (E) SITE GROUND SYSTEM. REPORT ANY DEFICIENCIES TO ENGINEER FOR FURTHER INSTRUCTIONS.
- ALL EXISTING ELECTRICAL EQUIPMENT THAT IS MODIFIED FOR NEW CIRCUIT RECONFIGURATION SHALL BE BROUGHT TO MEET CURRENT CODE REQUIREMENTS.

**1 PROPOSED GROUNDING PLAN**

SCALE: 1/2" = 1'-0"  
 0' 2' 4' 6'

Prepared For:

1200 CONCORD AVENUE, SUITE 500  
 CONCORD, CA 94520

Engineer:

2840 HOWE ROAD, SUITE E  
 MARTINEZ, CA 94553  
 www.TheCBRGroup.com

T-Mobile ID:  
**SF40855A**

Site Name:  
**US CELL-HWY 20 GUNTLY**

Site Address:  
**6100 E SIDE POTTER VALLEY RD  
 POTTER VALLEY, CA 95469**

Issued For:  
**CONSTRUCTION**

REV	DATE	DESCRIPTION	BY
C	02/27/2024	PLAN CHECK COMMENTS	JD
B	12/28/2023	100%CDs FOR REVIEW	MS
A	11/17/2023	90%CDs FOR REVIEW	SF

Jurisdiction:

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Licenser:

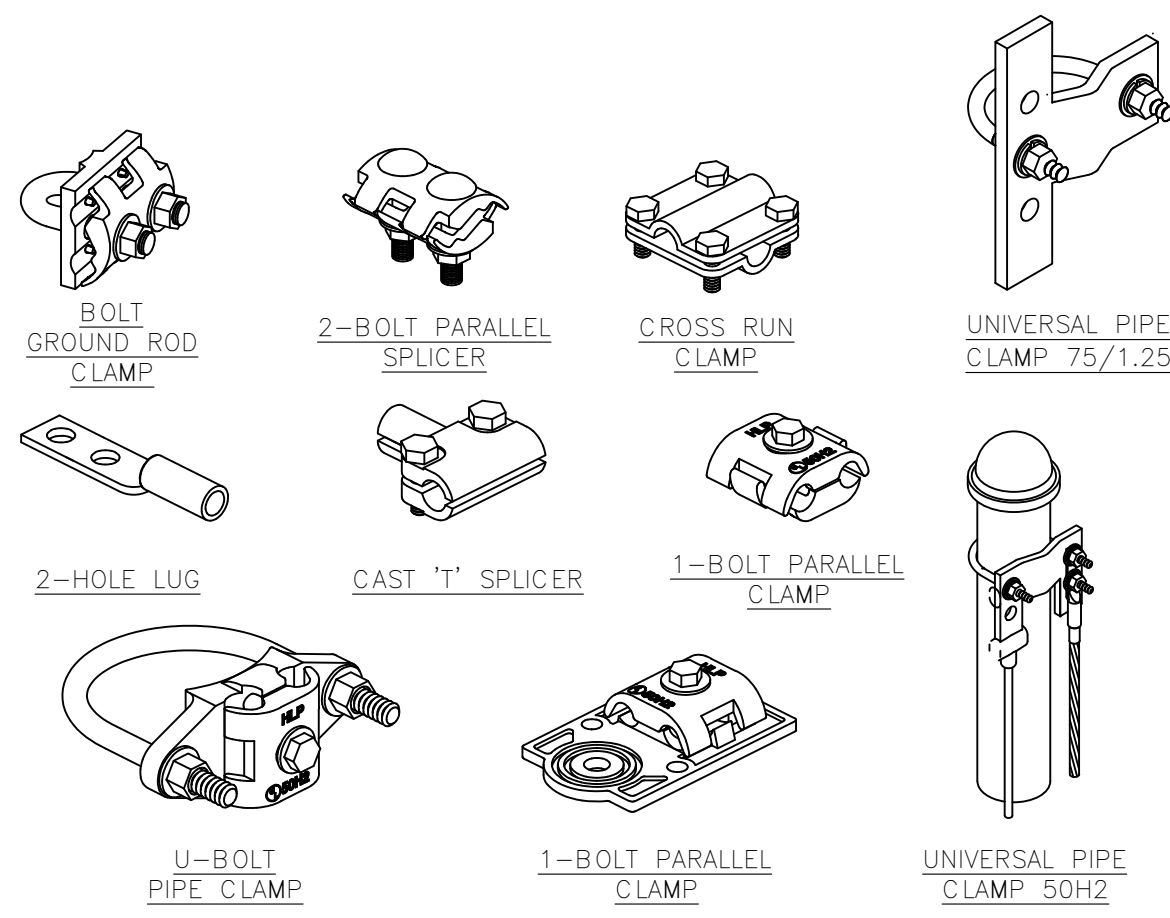
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Sheet Title:  
**ELECTRICAL NOTES AND PROPOSED GROUNDING PLAN/S**

Sheet Number:  
**E-1**

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**NOTES/LEGEND:**

- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
- 5/8" LOCKWASHER, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

**GROUND BAR DETAIL**

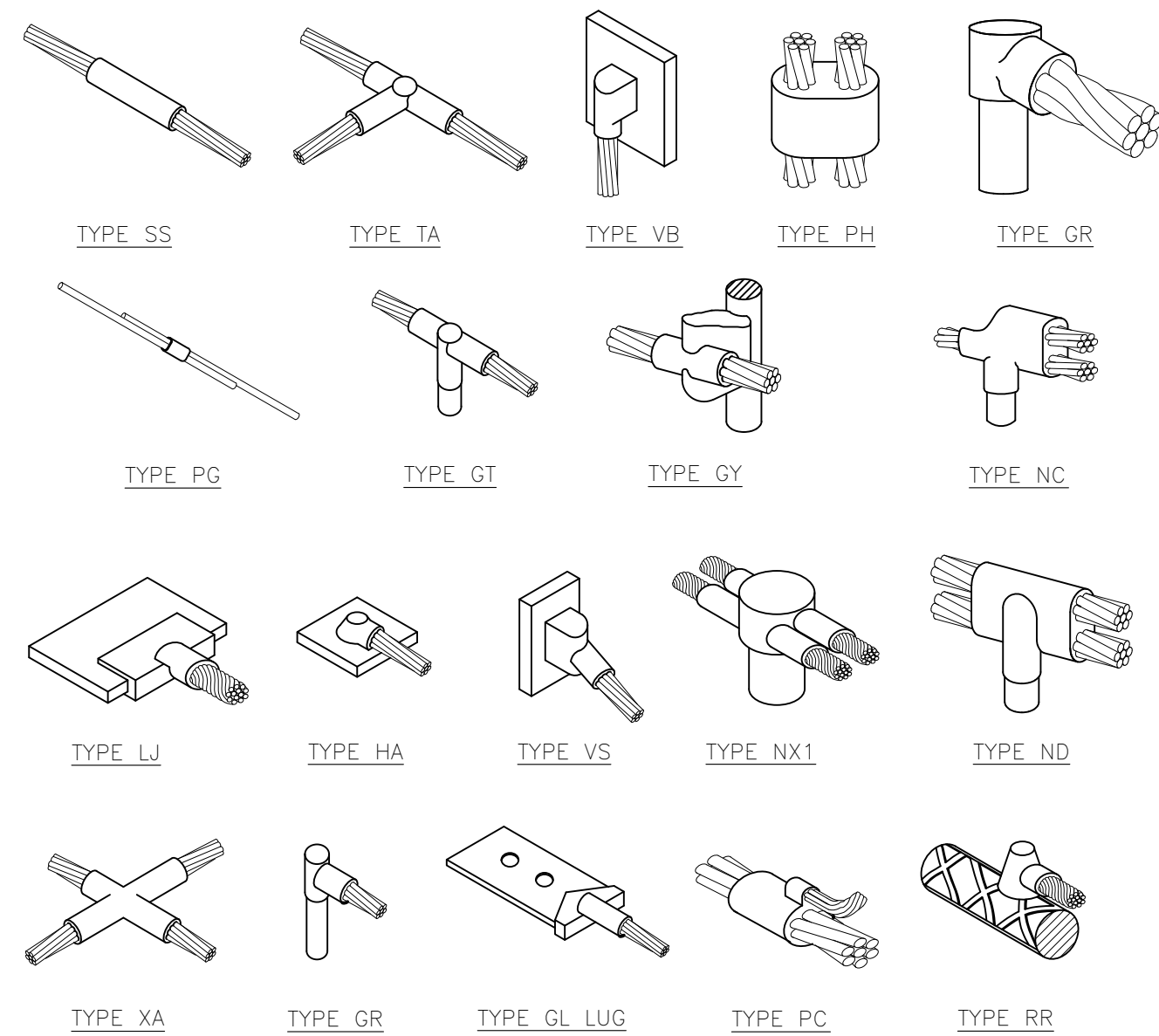
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL DETAILS ARE SHOWN ON GENERAL TERM, ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURERS PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
- CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE T-MOBILE REPRESENTATIVE.
- NOTIFY ENGINEER OF RECORD IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
- ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 12" BELOW GRADE/FROST-LINE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
- ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
- ACCEPTABLE CONNECTIONS FOR GROUND SYSTEM SHALL BE:
  - BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR INDOOR USE OR AS APPROVAL BY T-MOBILE.
  - CADWELD, EXOTHERMIC WELD (WELDED CONNECTIONS)
  - TWO - (2) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS (BUS BAR CONNECTIONS)
- ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICE). PRIOR TO ANY LUG-BUSSBAR CONNECTIONS, THE BUSSBAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.
- ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).
- ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH CEC AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS, GROUND RING IF SERVICE IS WITHIN THE RADIO EQUIPMENT LOCATION, BUILDING STEEL IF APPLICABLE, COLD WATER CONNECTIONS MUST BE MADE ON THE STREET SIDE OF MAIN SHUT-OFF VALVE.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS: A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- FOLLOW C.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OG GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
- GROUNDING @ PPC CABINET SHALL BE VERTICALLY INSTALLED.
- ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
- ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
- USE SEPARATE HOLES FOR GROUNDING @ BUSS BAR. NO "DOUBLING-UP" OF LUGS.
- POWER AND TELCO CABS SHALL BE GROUNDED (BONDED) TOGETHER.
- NO "L AND B" ALLOWED ON GROUNDING.
- PROVIDE STAINLESS STEEL CLAM AND BRASS TAGS ON COAX @ ANTENNAS AND DOGHOUSE.

**GROUNDING NOTES**

1. N.T.S.

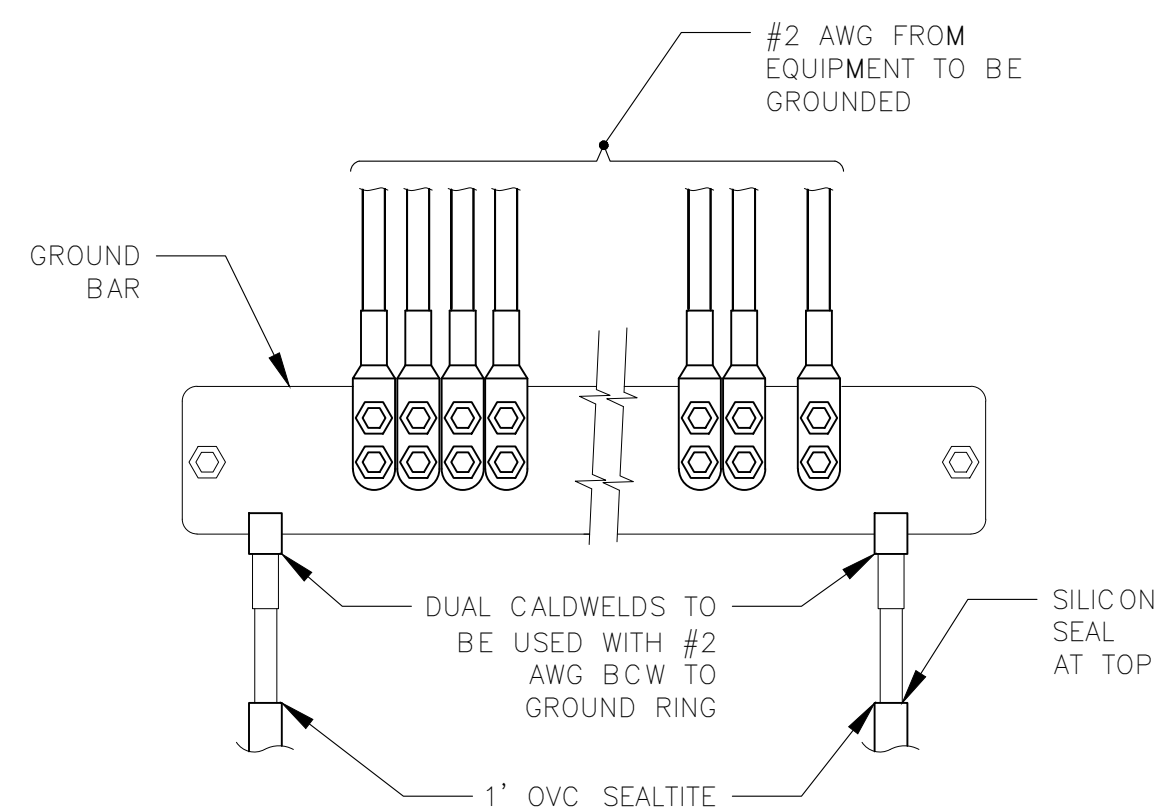
**MECHANICAL CONNECTION**

SCALE: N.T.S. 7



**EXOTHERMIC WELD CONNECTION**

SCALE: N.T.S. 6



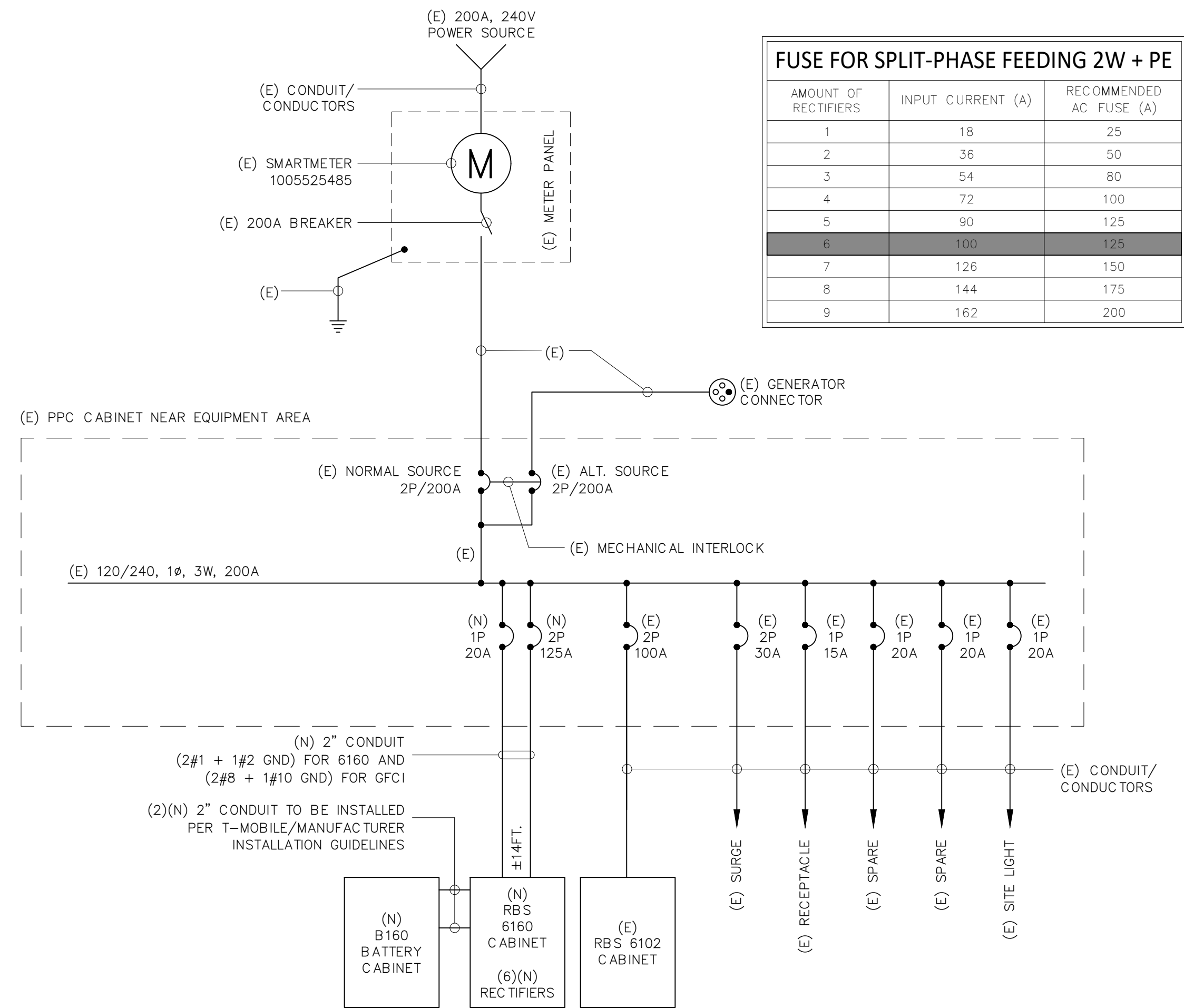
- NOTE:
- CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
  - ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MANUFACTURERS RECOMMENDED TOOL

**GROUND BAR CONNECTION DETAIL**

SCALE: N.T.S. 5

**SINGLE LINE DIAGRAM**

1. N.T.S.



**NOTES:**

- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH NEC, UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- WIRES TO END OF FLEXIBLE NONMETALLIC CONDUIT. COIL 3'-0" AT END OF FLEXIBLE NONMETALLIC CONDUIT & TAG.
- PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
- ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
- EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75° C.
- KAIC OF NEW BREAKER (S) TO MATCH EXISTING.
- CONTRACTOR TO VERIFY NUMBER AND SIZE OF ALL CIRCUITS REQUIRED WITH T-MOBILE PRIOR TO START CONSTRUCTION.

LOAD	DESCRIPTION	POLE	LOAD PER PHASE (VA)		TRIP	LOAD PER PHASE (VA)		LOAD	DESCRIPTION		
			PHASE			PHASE					
			A	B		A	B				
1	(E) SURGE SUPPRESSOR	2	0	0	30	100	2800	2800	(E) RBS 6102 CABINET		
3											
5	(E) RECEPTACLE	1	180	0	15	20	200	200	(E) SITE LIGHT		
7	(N) RBS CABINET 6160 - B	1	1200	0	20	20	8640	8640			
9	(E) SPARE	1	0	0	20	20	8640	8640	(N) RBS CABINET 6160 - A		
11											
SUBTOTAL CONTINUOUS			0	1200			11440	11640	SUBTOTAL CONTINUOUS	TOTAL VA CONTINUOUS (x 1.25)	30350
SUBTOTAL NON-CONTINUOUS			180	0			0	0	SUBTOTAL NON-CONTINUOUS	TOTAL VA NON-CONTINUOUS	180
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 1)											
MAIN BREAKER:			200 AMP		CYCLE:		60		VOLTAGE: 120/240		
MAIN BREAKER A.I.C. RATING:			65,000 A.I.C.		PHASE:		1				
BRANCH BREAKER SERIES A.I.C. RATING:			10,000 A.I.C.		WIRES:		3		NEUTRAL: 200 AMPS		
BRANCH BREAKER TYPE:			-		MAIN COPPER BUS:		200 AMP				
TOTAL VA										30530	
TOTAL AMPS										127.2	

**EXISTING PANEL SCHEDULE WITH NEW LOAD**

2. N.T.S.

- ASSUMED LOAD FOR (E) BREAKER
  - (N) BREAKER IN (E) DISTRIBUTION PANEL
1. ADD (N) 125A-2P BREAKER AT POSITION 8-10 AND (N) 20A-1P BREAKER AT POSITION 7 FOR (N) 6160 CABINET.

Prepared For:



Engineer:



T-Mobile ID: SF40855A

Site Name: US CELL-HWY 20 GUNTLY

Site Address: 6100 E SIDE POTTER VALLEY RD POTTER VALLEY, CA 95469

Issued For: CONSTRUCTION

REV	DATE	DESCRIPTION	BY
C	02/27/2024	PLAN CHECK COMMENTS	JD
B	12/28/2023	100%CDs FOR REVIEW	MS
A	11/17/2023	90%CDs FOR REVIEW	SF

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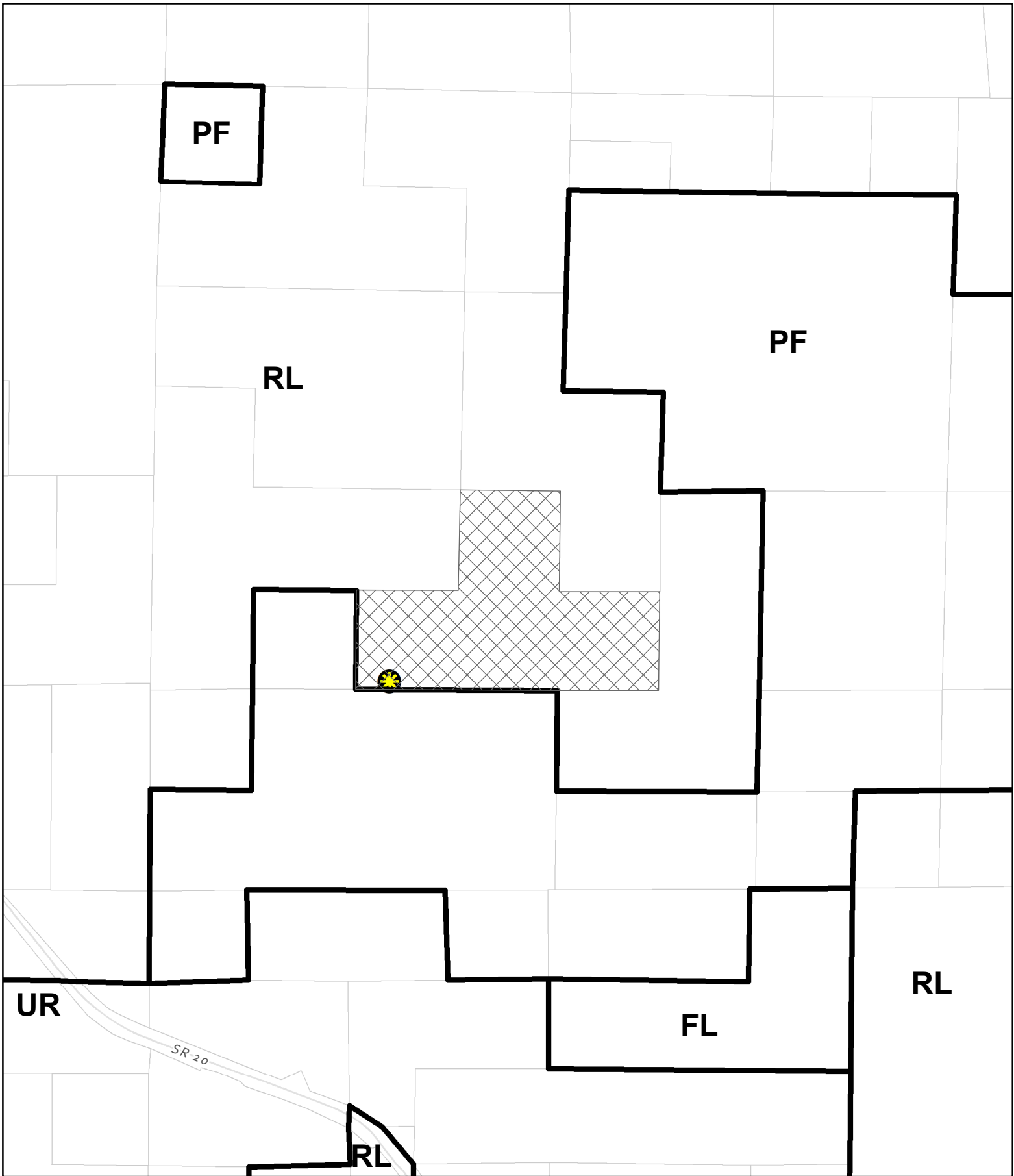
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Sheet Title: SINGLE LINE DIAGRAM, PANEL SCHEDULE, AND GROUNDING DETAILS





Sheet Number:

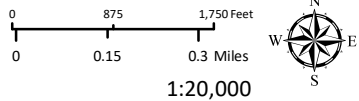
**E-2**





**CASE:** AP\_2024-0016  
**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

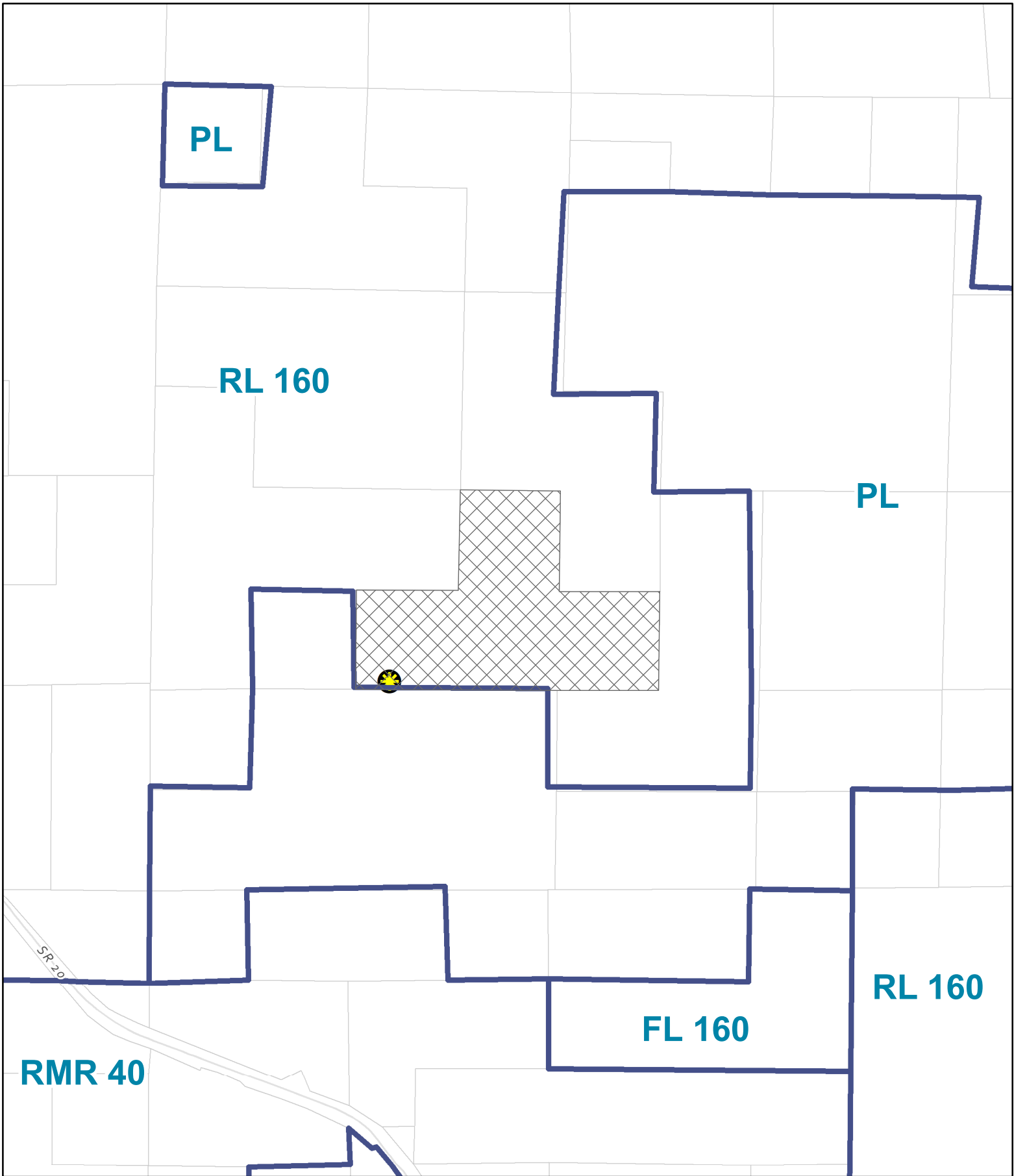
-  Zoning Districts
-  Public Roads
-  Assessors Parcels
-  Approved Wireless Sites






**ZONING**

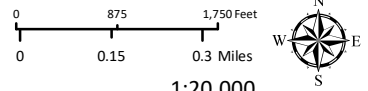
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**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

-  Public Roads
-  Assessor's Parcels
-  Approved Wireless Sites

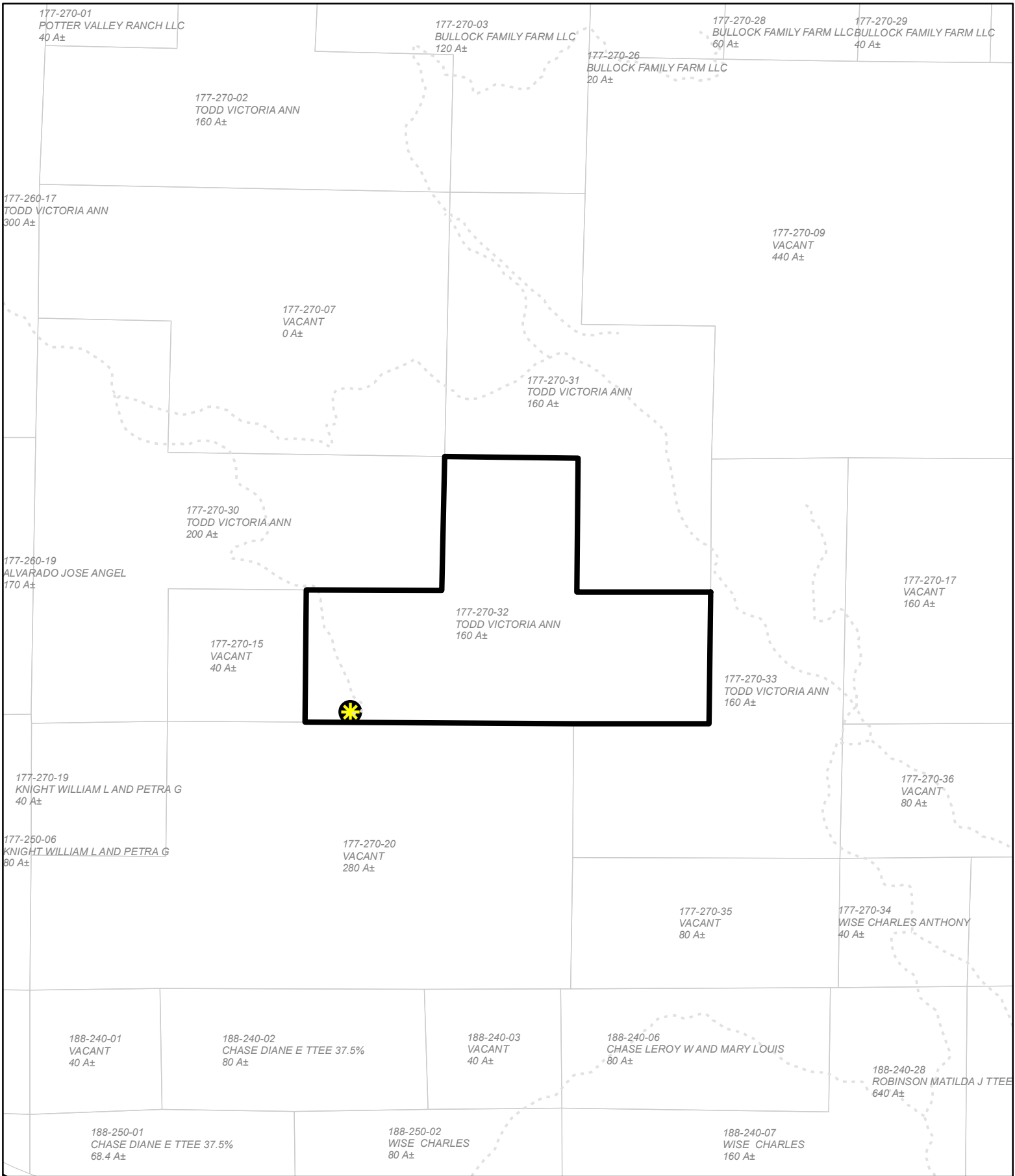


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GENERAL PLAN



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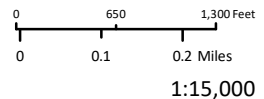




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**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

-  Highways (2017)
-  Public Roads
-  Driveways/Unnamed Roads

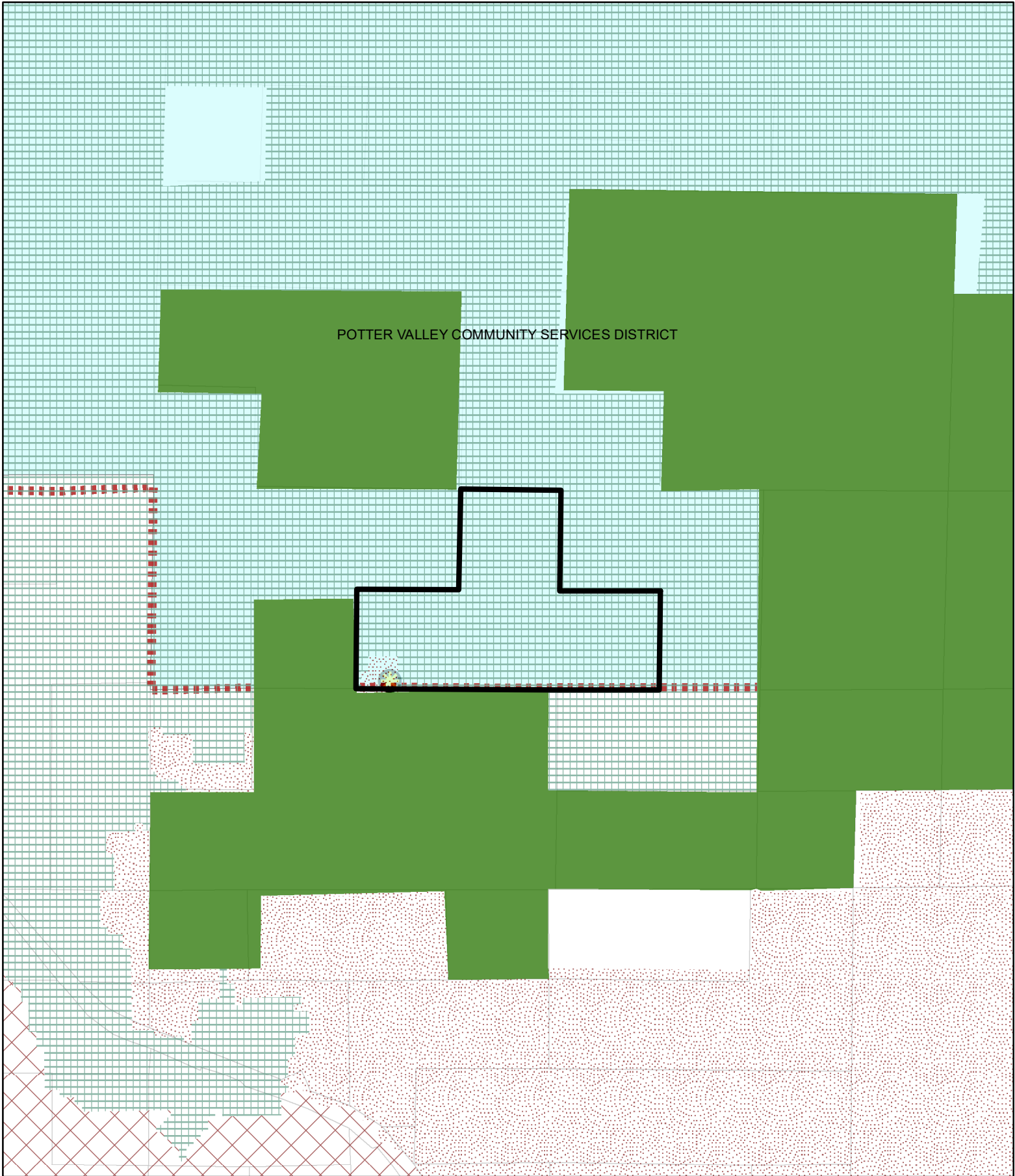
-  Assessors Parcels
-  Approved Wireless Sites










**ADJACENT PARCELS**

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	FRA		Moderate Fire Hazard		Approved Wireless Sites
	Very High Fire Hazard		County Fire Districts		Assessors Parcels
	High Fire Hazard				

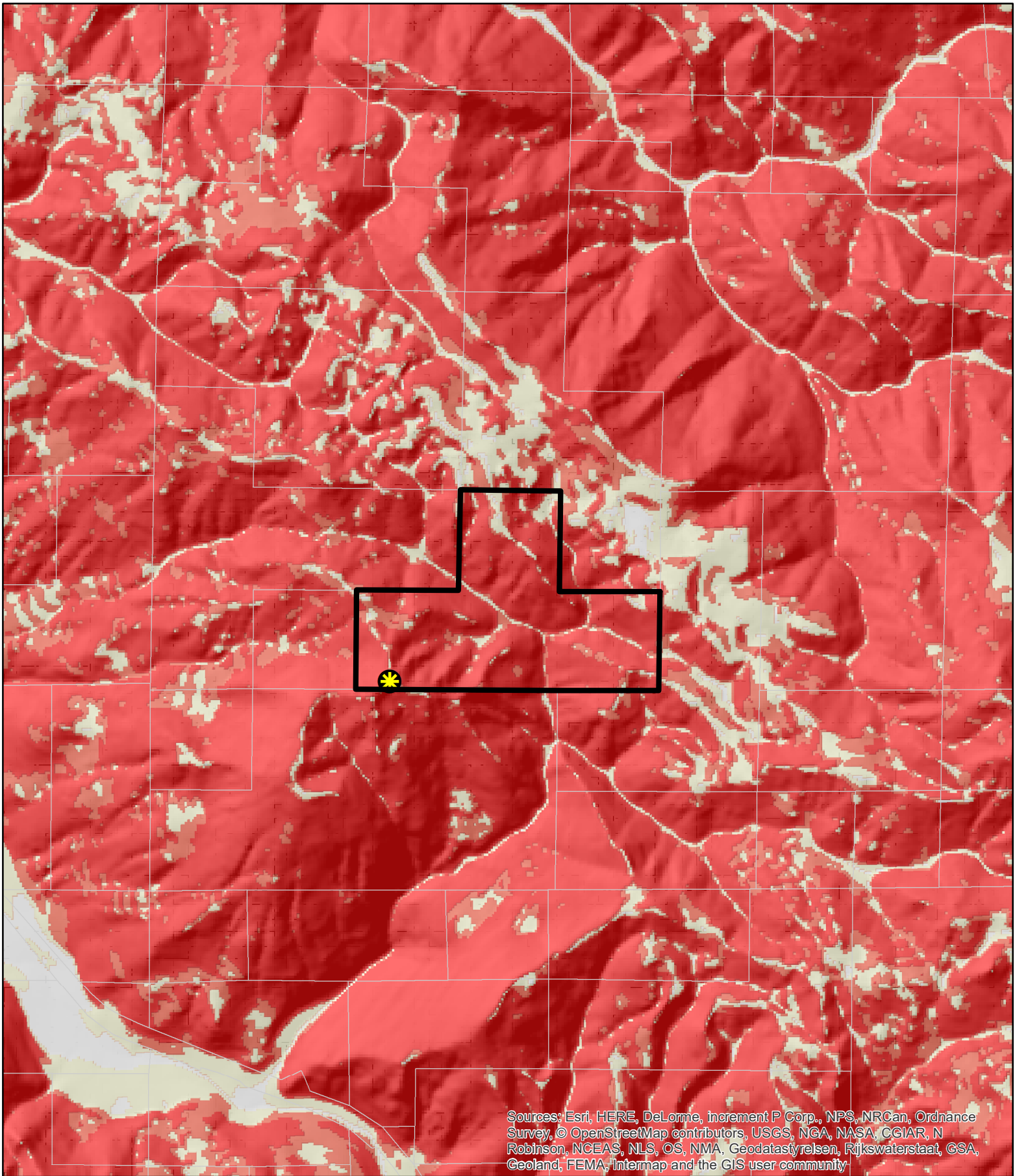
0 875 1,750 Feet  
 0 0.15 0.3 Miles



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**FIRE HAZARD ZONES & RESPONSIBILITY AREAS**  
 STATE RESPONSIBILITY AREA

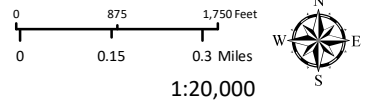
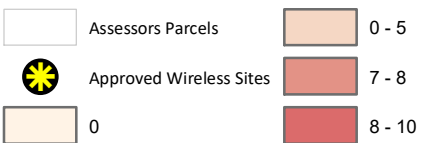
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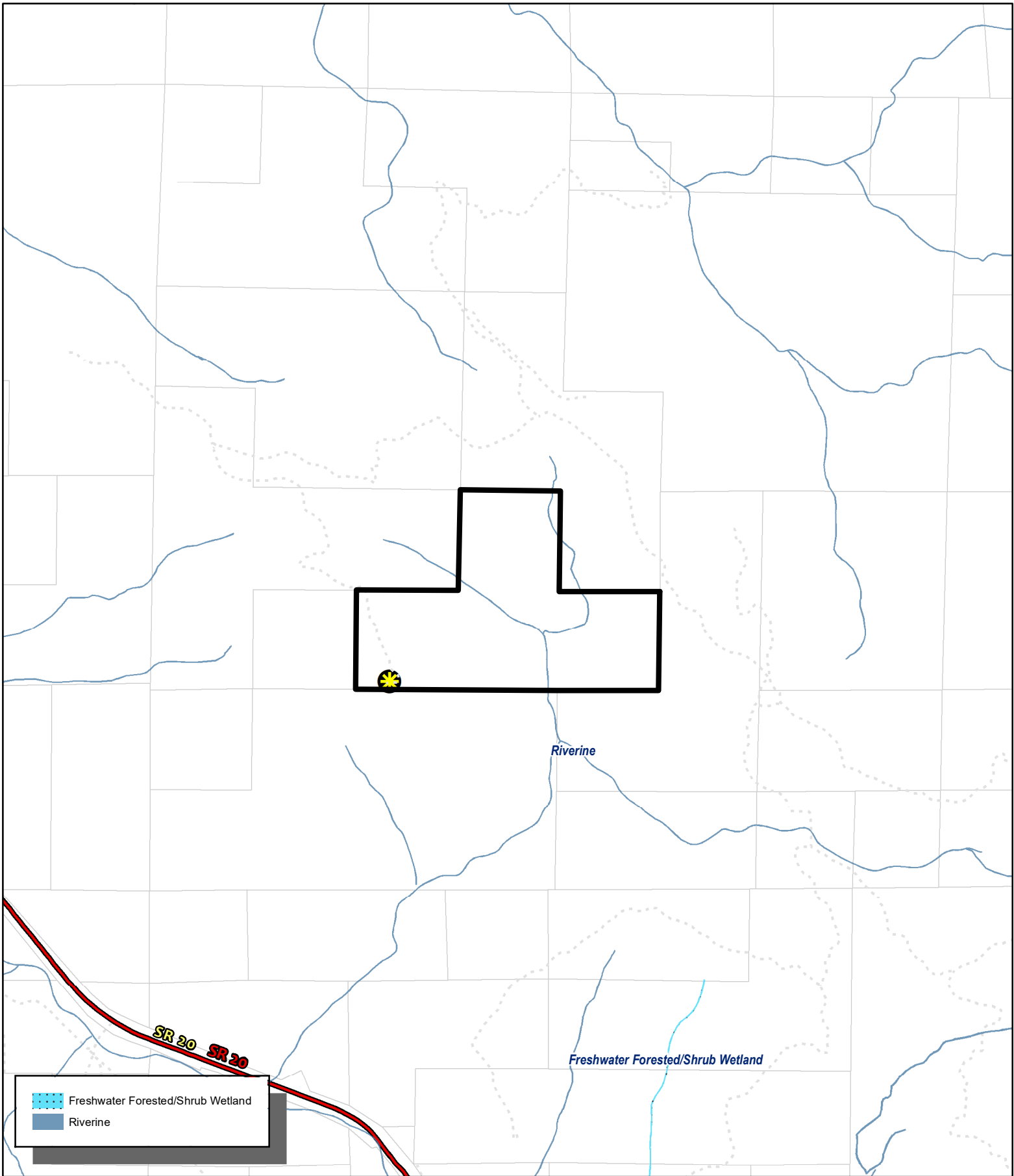
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**LANDSLIDE HAZARDS**

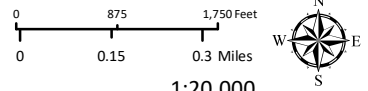
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- Highways
- Highways (2017)
- Public Roads
- Driveways/Unnamed Roads
- Assessors Parcels
- Approved Wireless Sites



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**WETLANDS**

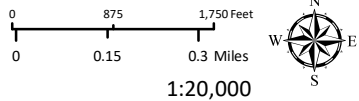
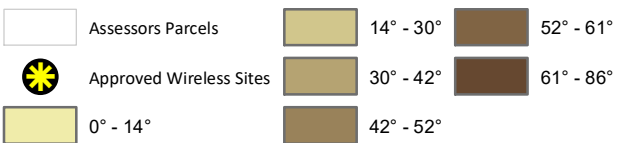
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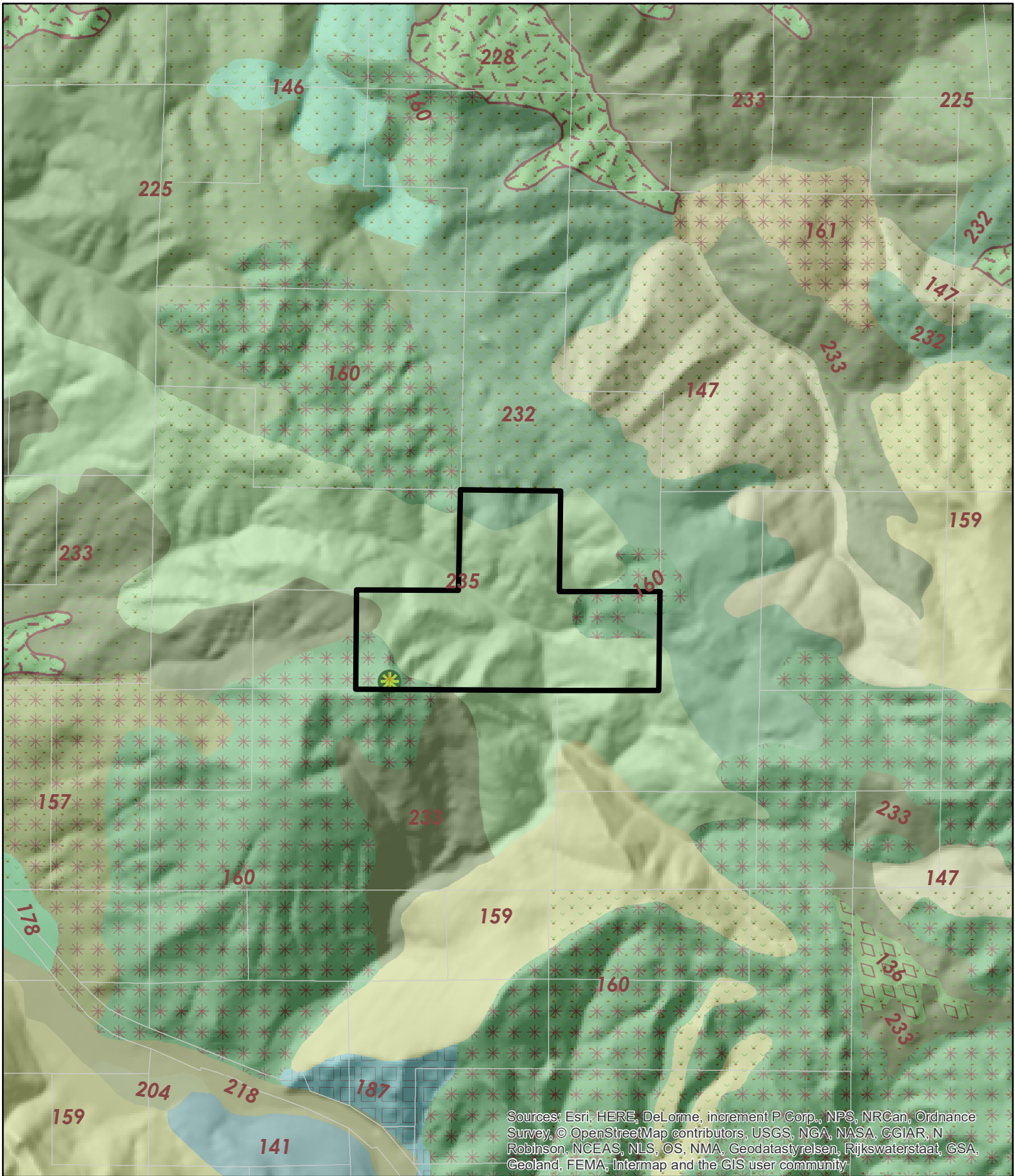
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**ESTIMATED SLOPE**




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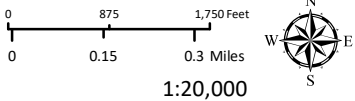




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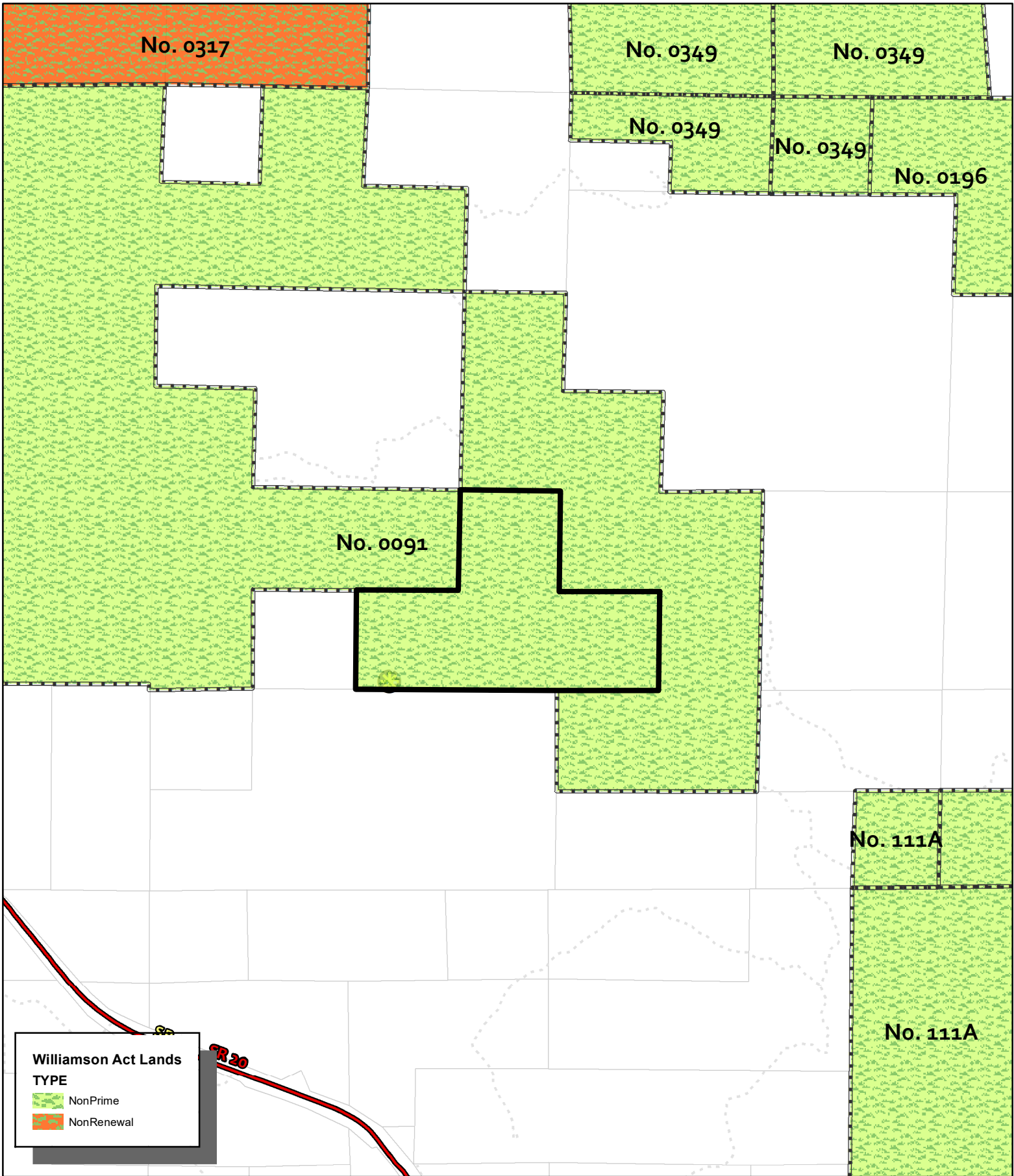
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**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

-  Assessors Parcels
-  Naturally Occurring Asbestos
-  Approved Wireless Sites



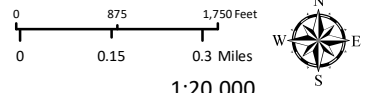
1:20,000  
**EASTERN SOIL CLASSIFICATIONS**

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 DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES**



**CASE:** AP\_2024-0016  
**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

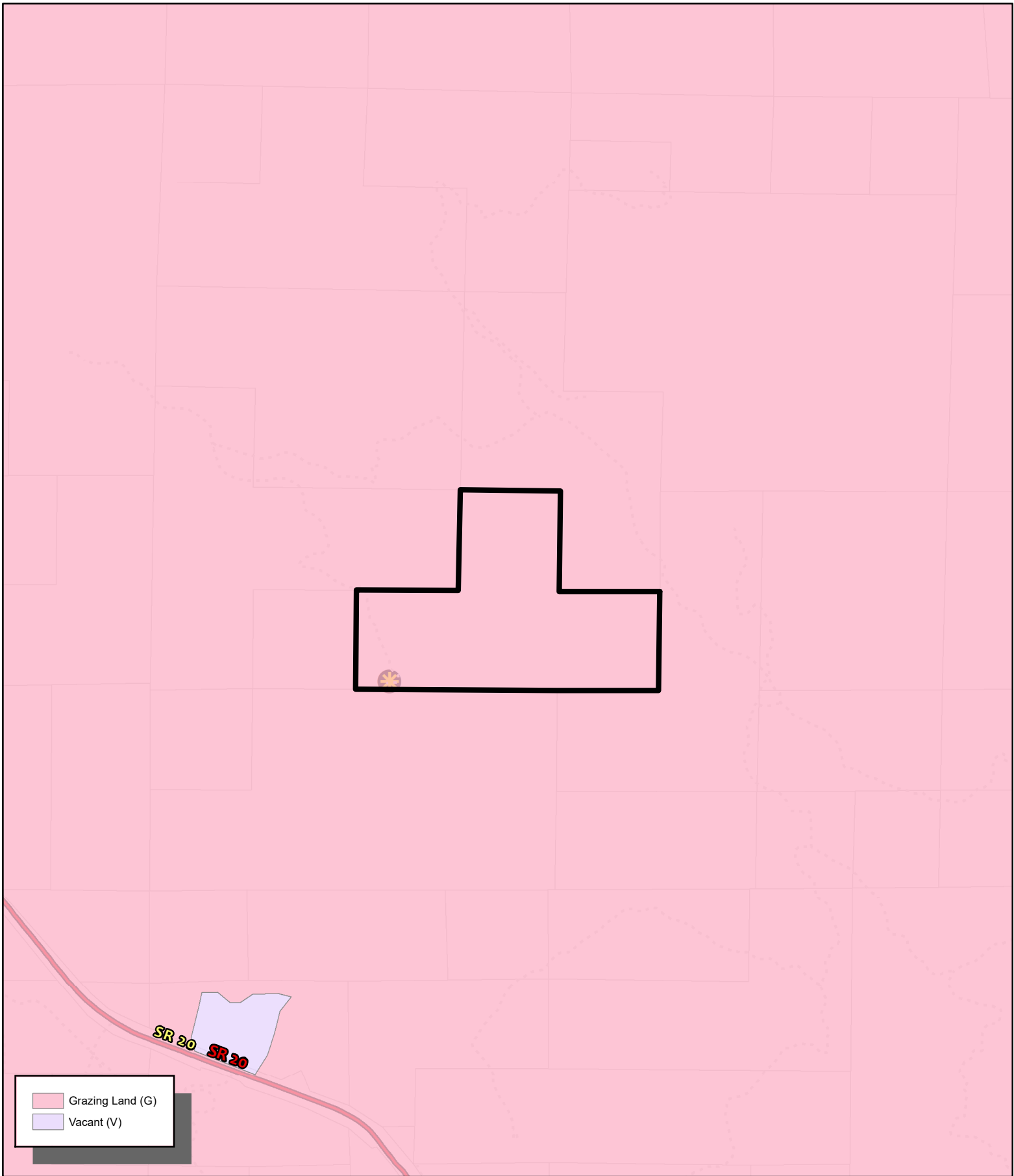
- Highways
- Highways (2017)
- Public Roads
- Driveways/Unnamed Roads
- Assessors Parcels
- Approved Wireless Sites



1:20,000  
**WILLIAMSON ACT**

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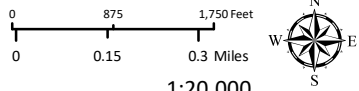




Grazing Land (G)  
 Vacant (V)

**CASE:** AP\_2024-0016  
**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

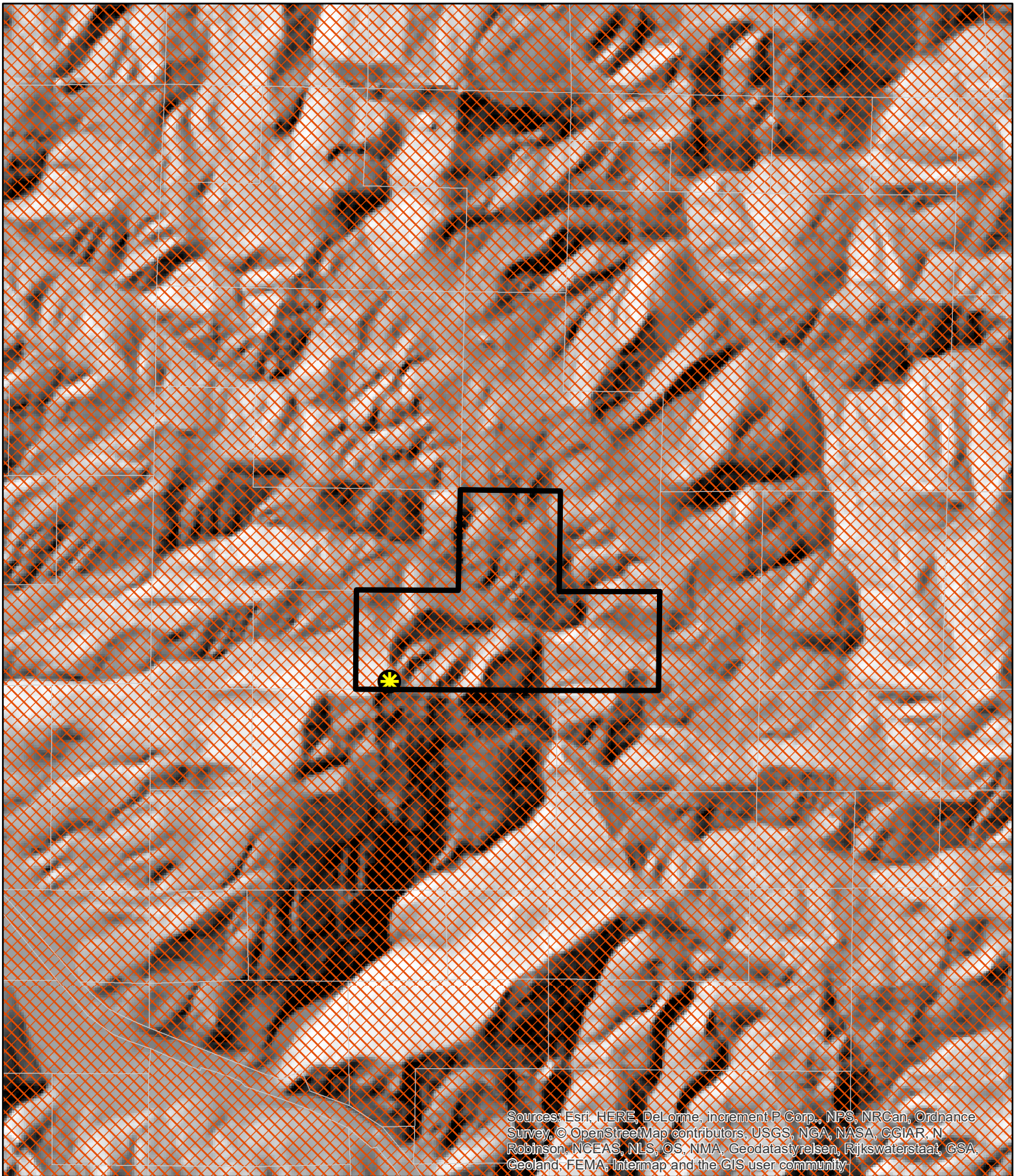
- Highways
- Driveways/Unnamed Roads
- Assessors Parcels
- Highways (2017)
- Approved Wireless Sites
- Public Roads



**FARMLAND CLASSIFICATIONS**




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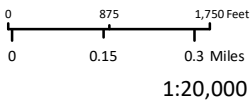




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**CASE:** AP\_2024-0016  
**OWNER:** US Cellular Site Tech  
**APN:** 177-270-32  
**APLCT:** S. Wilson for T-Mobile  
**AGENT:**  
**ADDRESS:** 6100 E Side Potter Valley Rd.

-  Assessors Parcels
-  Approved Wireless Sites
-  PV Tribe Ancestral Areas



**POTTER VALLEY TRIBE ANCESTRAL AREAS**

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





**Planning and Building  
Services**

Case No:	_____
CalFire No:	_____
Date Filed:	_____
Fee:	_____
Receipt No:	_____
Received By:	_____
<i>Office use only</i>	

**APPLICATION FORM**

**APPLICANT**

Name: S. Wilson for T-Mobile Phone: \_\_\_\_\_

Mailing Address: S. Wilson for T-Mobile

City: Concord State/Zip: 94520 email: S.Wilson@thebbrgroup.com

**PROPERTY OWNER**

Name: US Cellular Site Tech Phone: (707) 498-7503

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Zip: \_\_\_\_\_ email: \_\_\_\_\_

**AGENT**

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Zip: \_\_\_\_\_ email: \_\_\_\_\_


Parcel Size: 160 Acres (Sq. feet/Acres) Address of Property: 6100 E Side Potter Valley Road, Potter Valley

Assessor Parcel Number(s): 177-270-32

**TYPE OF APPLICATION:**

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Administrative Permit | <input type="checkbox"/> Flood Hazard                | <input type="checkbox"/> Rezoning           |
| <input type="checkbox"/> Agricultural Preserve            | <input type="checkbox"/> General Plan Amendment      | <input type="checkbox"/> Use Permit-Cottage |
| <input type="checkbox"/> Airport Land Use                 | <input type="checkbox"/> Land Division-Minor         | <input type="checkbox"/> Use Permit-Minor   |
| <input type="checkbox"/> CDP- Admin                       | <input type="checkbox"/> Land Division- Major        | <input type="checkbox"/> Use Permit-Major   |
| <input type="checkbox"/> CDP- Standard                    | <input type="checkbox"/> Land Division-Parcel        | <input type="checkbox"/> Variance           |
| <input type="checkbox"/> Certificate of Compliance        | <input type="checkbox"/> Land Division-Resubdivision | <input type="checkbox"/> Other              |
| <input type="checkbox"/> Development Review               | <input type="checkbox"/> Modification of Conditions  |   |
| <input type="checkbox"/> Exception                        | <input type="checkbox"/> Reversion to Acreage        |   |

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


Date 3/8/2024
Signature of Owner \_\_\_\_\_
Date \_\_\_\_\_

*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.

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ANTENNA AREA:

- 1. REPLACE (6)(E) ANTENNAS WITH (6)(N) ANTENNAS FINAL QTY: (6) -
- 2. REPLACE (3)(E) RADIOS WITH (3)(N) RADIOS AND ADD (3)(N) RADIOS - TOTAL 6 -
- 3. REMOVE (6)(E) TMAS -
- 4. REMOVE (12)(E) COAX CABLES -

EQUIPMENT AREA:

- 5. RETAIN (1)(E) CABINET -
- 6. INSTALL (1)(N) 6160 CABINET -
- 7. INSTALL (2)(N) BASEBANDS INSIDE 6160 CABINET -
- 8. INSTALL (1)(N) B160 CABINET -
- 9. REMOVE (6)(E) DIPLEXERS -
- 10. INSTALL (1)(N) IXRE ROUTER -
- 11. INSTALL (2)(N) HYBRID CABLE SYSTEM (HCS) -
- 12. REMOVE UNUSED EQUIPMENT IF ANY -
- 13. INSTALL (1)(N) HCS WINDER BOX -
- 14. REPLACE (1)(E) HALOGEN WORK LIGHT WITH (1)(N) LED SERVICE LIGHT -

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2. Structures/Lot Coverage	Number 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: _____	N/A		Shrub/Scrub 106.95 ac (64.9%)		
<b>Total Structures Paved</b> <b>Area Landscaped Area</b> <b>Unimproved Area</b>					
<b>GRAND TOTAL (Equal to gross area of Parcel)</b>					



3. If the project is commercial, industrial or institutional, complete the following:  
 Estimated employees per shift: \_\_\_\_\_ Existing: Unmanned wireless communications facility.  
 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	_____	_____	N/A
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	N/A
D. Maximum height of cut slope	_____	feet	
E. Amount of import or export	_____	cubic yards	
F. Location of borrow or disposal site	_____		

10. Does the project involve sand removal, mining or gravel extraction?  Yes  No  
 If yes, detailed extraction, reclamation and monitoring plans may be required?

11. Will the proposed development convert land currently or previously used for agriculture to another use?  
 Yes  No  
 If yes, how many acres will be converted? \_\_\_\_\_ acres. An agricultural economic feasibility study may be required.

12. Will the development provide public or private recreational opportunities?  Yes  No  
 If yes, explain below:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

13. Is the proposed development visible from State Highway 1 or other scenic route? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Is the proposed development visible from a park, beach or other recreational area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

Placement of structures in:  
 open coastal waters  
 wetlands  
 estuaries  
 lakes

If so, amount of material to be dredged or 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 plan and building plans.  
REPLACE (1)(E) HALOGEN WORK LIGHT WITH (1)(N) LED SERVICE LIGHT  
 \_\_\_\_\_  
 \_\_\_\_\_

17. Utilities will be supplied to the site as follows:  
 A. Electricity:  
 Utility Company (service exists to the parcel)  
 Utility Company (requires extension of service to site: \_\_\_\_\_ feet \_\_\_\_\_ miles)  
 On Site Generation - Specify: \_\_\_\_\_  
 B. Gas:  
 Utility Company/Tank  
 On Site Generation - Specify: \_\_\_\_\_  
 None  
 C. Telephone:  Yes  No

18. What will be the method of sewage disposal?  
 Community sewage system - Specify supplier \_\_\_\_\_ N/A  
 Septic Tank  
 Other - Specify: \_\_\_\_\_

19. What will be the domestic water source:  
 Community water system - Specify supplier \_\_\_\_\_ N/A  
 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:  
\_\_\_\_\_  
\_\_\_\_\_

22. Describe the location of the site in terms of readily identifiable landmarks (e.g., mailboxes, mile posts, street intersections, etc.):  
From Ukiah head N. on 101 to Upper Lake/ Hwy. 20 exit. Head E on Hwy 20 past lake  
Mendocino and Left at Potter Valley/ Lake Pillsbury exit. 1/2 mile on right is the gate that says  
"Cold Creek Compose". Follow road to site.  
\_\_\_\_\_

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.  

See Site Plan in included Drawings.

\_\_\_\_\_  
\_\_\_\_\_

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 150 feet. Maximum height of proposed structures 150 feet.

26. N/A 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. N/A Lot area (within property lines): \_\_\_\_\_ 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.  

Existing unmanned wireless facility.

\_\_\_\_\_  
\_\_\_\_\_

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.  

Shrub/Scrub 106.95 ac (64.9%), Shrubland 145.21ac (88.1%)

\_\_\_\_\_

30. Indicate the surrounding land uses:

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



March 8, 2024

County of Mendocino  
Planning & Building Services  
860 N Bush Street  
Ukiah, CA 95482  
cliserm@mendocinocounty.org  
fordr@mendocinocounty.org

**Applicant:** T-Mobile (Agent: The CBR Group)  
**Site Address:** 6100 E Side Potter Valley Rd.  
**Site ID:** SF40855A / Project: SF40855A-0002367665

Re: Eligible Facilities Request - Modify Communications Facility at **6100 E Side Potter Valley Road, Potter Valley CA 95482.**

To Whom it May Concern:

Please find along with this application the following supporting documents:

1. Planning Application
2. 100% CDs
3. Acknowledgement Deposit Form
4. Letter of Authorization (T-Mobile)
5. Lease Agreement
6. T-Mobile Radio Frequency Report
7. Section 6409(a) Eligible Facilities Request (EFR) Cover Letter

A. T-Mobile is Filing an Eligible Facilities Request

The CBR Group on behalf of T-Mobile is submitting the attached Eligible Facilities Request application to add, remove, modify, or replace Transmission Equipment (the "Request") at a Tower located at 6100 E Side Potter Valley Rd, Potter Valley CA 95482.

This Request is governed by Section 6409 of the Middle-Class Tax Relief and Job Creation Act of 2012, commonly known as the "Spectrum Act" (Pub. Law No. 112-96, 126 Stat 156). Section 6409(a) of the Spectrum Act states that state and local governments "may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." Under Section 6409, an Eligible Facilities Request is any request to modify a Tower or Base Station that involves "collocations of new Transmission Equipment," "removal," or "replacement" of Transmission Equipment.

B. Why this Eligible Facilities Request Must Be Granted.

Consistent with federal law, the enclosed Request involves a proposal to collocate, remove, modify, or replace Transmission Equipment at an existing tower for use by a Federal Communications Commission ("FCC") licensed





wireless carrier. The existing Tower is a structure that is 150' high and presently contains wireless facilities. The existing Tower meets the Federal Communications Commission ("FCC") definition of a Tower.

In a Report and Order adopted on October 17, 2014, the FCC determined that any modification to an existing telecommunications Tower that meets the following six criteria does not substantially change the physical dimensions of the existing Tower and therefore is an Eligible Facilities Request which must be granted:

1. The modifications to the Transmission Equipment do not increase the height of the Tower by twenty (20) feet or ten (10%) percent, whichever is greater.
2. The mounting of the proposed antenna does not involve adding an appurtenance to the body of the base station that would protrude from the edge of the base station more than 20 feet, or more than the width of the base station at the level of the appurtenance, whichever is greater; and
3. The modifications to the Transmission Equipment do not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.
4. The modifications to the Transmission Equipment do not entail any excavation or deployment outside of the Tower site.
5. The modifications to the Transmission Equipment do not defeat any existing concealment elements of the Tower.
6. The modifications to the Transmission Equipment comply with prior conditions of approval of the Tower, unless the non-compliance is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the corresponding "substantial change" thresholds in numbers 1-4.

The proposed project will involve Modification of an Existing Cell Site. This work does not constitute a substantial change under the criteria above because it:

- 1) Will not increase the height of the Tower by more than ten percent (10%) or ten (20) feet, whichever is greater.

**Details:** The proposed project will not increase the height of the Tower by more than ten percent (10%) or ten (20) feet, whichever is greater.

- 2) The modifications to the Transmission Equipment do not protrude from the edge of the Tower by twenty (20) feet or more than the width of the base station at the level where the transmission equipment modifications are made.

**Details:** The modifications to the Transmission Equipment do not protrude from the edge of the Tower by twenty (20) feet or more than the width of the base station.

- 3) Does not defeat any existing concealment elements.

**Details:** The proposed project will not defeat any existing concealment elements.

- 4) Does not entail any excavation outside the current Tower site.

**Details:** The proposed project will not involve excavations outside the current Tower site.



- 5) Does not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.

**Details:** The proposed project will involve the installation of 2 new cabinets and removal of 0 old cabinets.

- 6) The proposed project complies with prior conditions of approval of the Tower, except for any non-compliance that is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the thresholds above.

**Response:** The proposed project complies with prior conditions of approval of the Tower.

Similarly, the list of equipment that will be installed as part of this Request qualifies as Transmission Equipment, which the FCC defines as “any equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas and other relevant equipment associated with and necessary to their operation, including coaxial or fiber-optic cable, and regular and back-up power supply. This definition includes equipment used in any technological configuration associated with any Commission-authorized wireless transmission, licensed or unlicensed, terrestrial or satellite, including commercial mobile, private mobile, broadcast and public safety services, as well as fixed wireless services such as microwave backhaul or fixed broadband.”

In sum, the modifications to the Transmission Equipment at the Tower located at **6100 E Side Potter Valley Road** fully conform to the requirements of the Spectrum Act. Accordingly, this Request must be approved within 60 days, as outlined below.

### C. Notice of Federal Law Expedited Permit Processing and Deemed Granted

Under federal law, an Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed. Thus, if sixty days pass after the submission of the Request and the City/County has not acted to grant or deny the Request, it will be deemed granted. At that time, the applicant may advise the City/County that the application has been deemed granted. If the City/County wishes to contest whether Request has been deemed granted, the burden is on the City/County to file a lawsuit in a court of competent jurisdiction within 30 days after receipt of a written communication notifying it that the Request has been deemed granted.

T-Mobile is committed to working cooperatively with you to process this request in a timely and efficient manner. Please do not hesitate to contact me if you have questions.

Sincerely,

*S. Wilson*

S.Wilson@theCBRgroup.com

The CBR Group, authorized agent for T-Mobile

Attachments