



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

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

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

July 15, 2020

Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor

Air Quality Management
CalFire - Prevention
Cloverdale Rancheria

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

CASE#: AP_2020-0020

DATE FILED: 5/5/2020

OWNER: DYLAN O'FERRALL

APPLICANT: VERIZON

AGENT: CROWN CASTLE, ANTHONY RHEE

REQUEST: Administrative Permit to add a 30 kW electricity generator with a 300 gallon belly tank that includes extended vents. The generator will be installed on a new 5 ft. by 10 ft. concrete pad within the existing wireless communications lease area.

LOCATION: 1± miles northeast of Potter Valley town center, lying on the east side of Eel River Road (CR 240B), 0.6± miles north of its intersection with Main Street (CR 245) located at 12531 Eel River Road, Potter Valley (APN: 175-010-10).

ENVIRONMENTAL DETERMINATION: Categorically Exempt

SUPERVISORIAL DISTRICT: 1

STAFF PLANNER: KEITH GRONENDYKE

RESPONSE DUE DATE: July 29, 2020

PROJECT INFORMATION CAN BE FOUND AT:

https://www.mendocinocounty.org/government/planning-building-services/public-agency-referrals

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

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

- No comment at this time.
Recommend conditional approval (attached).
Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
Recommend denial (Attach reasons for recommending denial).
Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
Other comments (attach as necessary).

REVIEWED BY:

Signature Department Date

CASE: AP_2020-0020 (Verizon)

OWNER: DYLAN O'FERRALL

APPLICANT: VERIZON WIRELESS

AGENT: CROWN CASTLE, ANTHONY RHEE

REQUEST: Administrative Permit to add a 30 kW electricity generator with a 300 gallon belly tank that includes extended vents. The generator will be installed on a new 5 ft. by 10 ft. concrete pad within the existing wireless communications lease area

LOCATION: 1± miles northeast of Potter Valley town center, lying on the east side of Eel River Road (CR 240B), 0.6± miles north of its intersection with Main Street (CR 245) located at 12531 Eel River Road, Potter Valley (APN: 175-010-10).

APN: 175-010-10

PARCEL SIZE: 40± Acres

GENERAL PLAN: Rangeland (RL 160)

ZONING: Rangeland (RL 160)

EXISTING USES: Cellular Antenna site

SUPERVISORAL DISTRICT: 1st District (Brown)

RELATED CASES: Use Permit Renewal, UR_2019-0004. Application to renew the original use permit that had expired; approved. Administrative Permit, AP_2017-0097. Application to add new antennas to the existing tower; approved. Administrative Permit, AP_2016-0035. Application to add new antennas to the existing tower; approved. Administrative Permit, AP_2016-0020. Application to add an emergency electricity generator; approved. Administrative Permit, AP_2014-0034. Application to add three additional panel antennas to the existing tower; approved. Administrative Permit, AP_2014-0022. Application to add a microwave dish to the existing tower; approved. Use Permit Modification, UM_2009-0008. Application to add three new panel antennas and an additional microwave dish to the existing tower; approved. Use Permit, U_2006-0016. Application to construct a sixty-five foot tall monopole; approved.

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	Range Lands (RL 160)	Range Lands (RL 160)	40± Acres	Barn-Agricultural
EAST:	Range Lands (RL 160)	Range Lands (RL 160)	80± Acres	Barn-Agricultural
SOUTH:	Agricultural (AG 40)	Agricultural (AG 40)	43± Acres	SFD-Barn-Agricultural
WEST:	Range Lands (RL 160)	Range Lands (RL 160)	6.5± Acres	Vacant

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Assessor's Office
- Building Division
- Environmental Health

STATE

- CALFIRE (Land Use)

- Sherwood Valley Band of Pomo Indians
- Potter Valley Tribe

TRIBAL

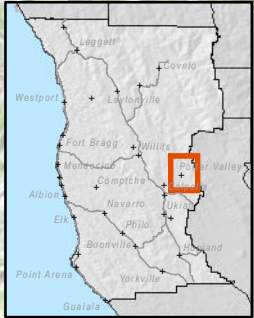
- Cloverdale Rancheria
 - Redwood Valley Rancheria
-

STAFF PLANNER: KEITH GRONENDYKE

DATE: 7/7/2020

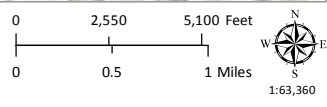
ENVIRONMENTAL DATA

1. **MAC:** N/A
2. **FIRE HAZARD SEVERITY ZONE:** High
3. **FIRE RESPONSIBILITY AREA:** Calfire
4. **FARMLAND CLASSIFICATION:** G
5. **FLOOD ZONE CLASSIFICATION:** N/A
6. **COASTAL GROUNDWATER RESOURCE AREA:** N/A
7. **SOIL CLASSIFICATION:** Eastern Soils
8. **PYGMY VEGETATION OR PYGMY CAPABLE SOIL:** N/A
9. **WILLIAMSON ACT CONTRACT:** Yes, non-prime
10. **TIMBER PRODUCTION ZONE:** No
11. **WETLANDS CLASSIFICATION:** N/A
12. **EARTHQUAKE FAULT ZONE:** No
13. **AIRPORT LAND USE PLANNING AREA:** No
14. **SUPERFUND/BROWNFIELD/HAZMAT SITE:** No
15. **NATURAL DIVERSITY DATABASE:** No
16. **STATE FOREST/PARK/RECREATION AREA ADJACENT:** N/A
17. **LANDSLIDE HAZARD:** N/A
18. **WATER EFFICIENT LANDSCAPE REQUIRED:** No
19. **WILD AND SCENIC RIVER:** N/A
20. **SPECIFIC PLAN/SPECIAL PLAN AREA:** N/A
21. **STATE CLEARINGHOUSE REQUIRED:** No
22. **OAK WOODLAND AREA:** No
23. **HARBOR DISTRICT:** N/A



CASE: **AP 2020-0020**
 OWNER: **OFERRALL, Dylan**
 APN: **175-010-10**
 APLCT: **Crown Castle**
 AGENT: **Anthony Rhee**
 ADDRESS: **12531 Eel River Road, Potter Valley**

- Major Towns & Places
- Major Roads
- California Counties
- Major Rivers



LOCATION MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 5/07/2020



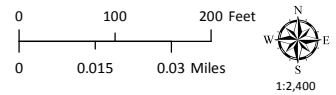
AT&T Wireless
12531 Eel River Road



CASE: AP 2020-0020
OWNER: OFERRALL, Dylan
APN: 175-010-10
APLCT: Crown Castle
AGENT: Anthony Rhee
ADDRESS: 12531 Eel River Road, Potter Valley



Wireless Sites



AERIAL IMAGERY

PHOTO COURTESY OF THE COUNTY OF POTTER VALLEY, CALIFORNIA



Planning and Building Services

Case No:	
CalFire No:	Local Response Agency - AV
Date Filed:	05-04-2020
Fee:	
Receipt No:	PRJ-
Received By:	Jesse Davis
Office use only	

APPLICATION FORM

APPLICANT Verizon (Project Contact: Anthony Rhee with Crown Castle; Agent of Applicant) Name: _____ Phone: 925-737-1070

Mailing Address: 1 Park Place, Suite 300 Dublin CA 94568

City: Dublin State/Zip: CA email: anthony.rhee.contractor@crowncastle.com

PROPERTY OWNER Dylan O'Ferrall Name: _____ Phone: _____

Mailing Address: 12531 Eel River Road, Pottery Valley CA 95469

City: Ukiah State/Zip: CA email: _____

AGENT Anthony Rhee with Crown Castle Name: _____ Phone: 925-737-1070

Mailing Address: 1 Park Place, Suite 300 Dublin CA 94568

City: Dublin State/Zip: CA email: anthony.rhee.contractor@crowncastle.com

Parcel Size: _____ (Sq. feet/Acres) Address of Property: 12531 Eel River Road, Potter Valley CA 95469

Assessor Parcel Number(s): 175-010-10-00

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.

See Letter of Authorization and Memorandum of Lease

Anthony Rhee Digitally signed by Anthony Rhee Date: 2020.04.29 14:25:52 -0700 4/29/2020
 Signature of Applicant Agent Date Signature of Owner Date

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? **None**

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.

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: Proposed scope of work is to provide on generation for back up. _____

B. Gas:
 Utility Company/Tank
 On Site Generation - Specify: _____
 None

C. Telephone: Yes No

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

19. What will be the domestic water source: **N/A**
 Community water system - Specify supplier _____
 Well
 Spring
 Other - Specify: _____

20. Are there any associated projects and/or adjacent properties under your ownership?
 Yes No If yes, explain (e.g., Assessor's Parcel Number, address, etc.):
 Adjacent property owned by same property owner: APN: 175-060-03-00, 175-010-09-00

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.):
 East of East Canal River and Manoir Girard Cellars.

23. Are there existing structures on the property? Yes No
 If yes, describe below, and identify the use of each structure on the plot plan or tentative map if the proposal is for a subdivision.
 Existing cell tower on site; scope of work will pertain to the cell tower only.

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 158' feet. Maximum height of proposed structures 158' feet.

26. Gross floor area of existing structures _____ square feet (including covered parking and accessory buildings). Gross floor area of proposed structures _____ square feet (including covered parking and accessory buildings).

27. Lot area (within property lines): 2304 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 telecommunication 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.

30. Indicate the surrounding land uses:

	North	East	South	West
<u>Vacant</u>				
<u>Residential Agricultural</u>				
<u>Commercial Industrial</u>				
<u>Institutional Timberland</u>				
<u>Other</u>				



VERIZON SITE NUMBER: 110914

VERIZON SITE NAME: CA371 - POTTER VALLEY

SITE TYPE: MONOPOLE

TOWER HEIGHT: 65'-0"

BUSINESS UNIT #: 857683

SITE ADDRESS: 12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

COUNTY: MENDOCINO

JURISDICTION: MENDOCINO COUNTY

VERIZON N/A



4502 10TH AVE
HANFORD, CA 93230



VERIZON SITE NUMBER:
110914

BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CDS	CW

SIGNED, 9 APR 2020

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 NUMBER:

T-1

REVISION:

0

SITE INFORMATION

SITE NAME: CA371 - POTTER VALLEY
 SITE ADDRESS: 12531 EEL RIVER ROAD
 POTTER VALLEY, CA 95469

COUNTY: MENDOCINO
 MAP/PARCEL #: 175-010-10-00
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 39° 19' 52.90" N
 LONGITUDE: 123° 5' 53.20" W
 LAT/LONG TYPE: NAD83
 CURRENT ZONING: RL (RANGELAND)
 JURISDICTION: MENDOCINO COUNTY
 OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION: IIB

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN
 HABITATION

PROPERTY OWNER: CROWN CASTLE
 5820 STONERIDGE MALL ROAD, SUITE 300
 PLEASANTON, CA 94588

TOWER OWNER: CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317

APPLICANT/CARRIER: VERIZON
 126 W. GEMINI DRIVE
 TEMPE, AZ 85283

CROWN CASTLE USA INC.
 APPLICATION ID: 514421

ELECTRIC PROVIDER: PACIFIC GAS & ELECTRIC
 800-743-5000

TELCO PROVIDER: FIBER APP
 N/A

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN
C-2	EXISTING AND FINAL ELEVATIONS
C-3	DETAILS
E-1	DETAILS
E-2	DETAILS
E-3	DETAILS
E-4	DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34.
 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS
 AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY
 THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE
 PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA
 MODIFICATION ON AN EXISTING WIRELESS SITE.
 TOWER

- INSTALL (1) VERIZON GENERATOR W/ ASSOCIATED EQUIPMENT
- INSTALL (6) BOLLARDS

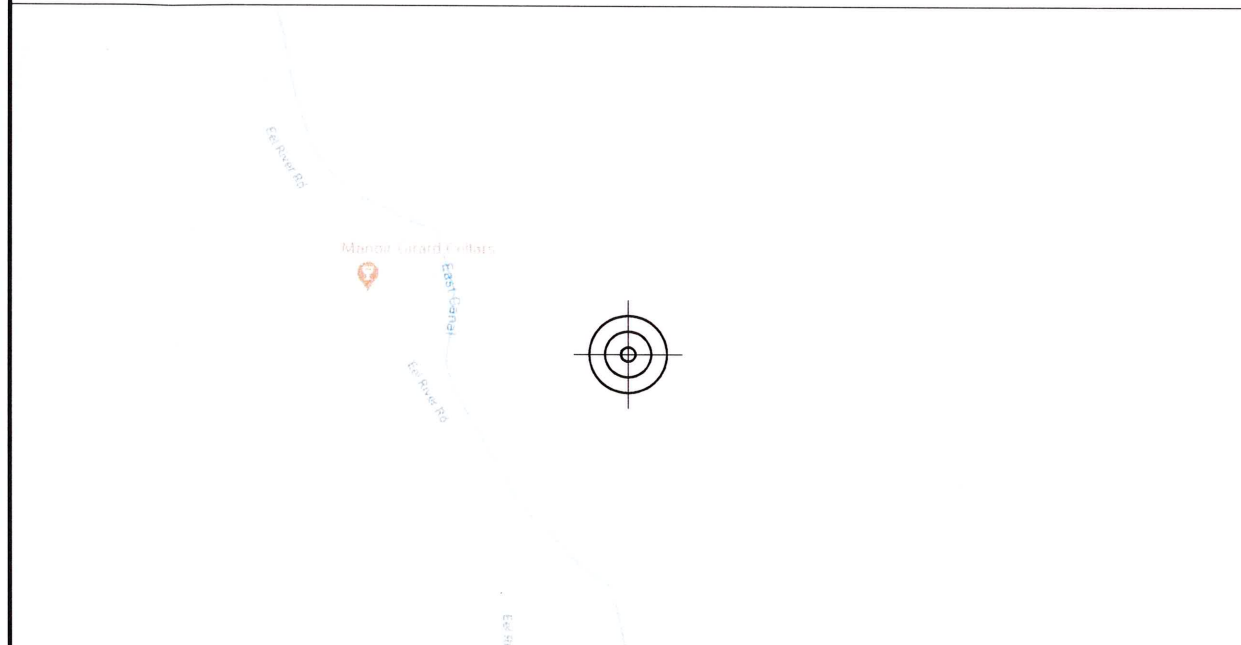
DESIGN PACKAGE BASED ON APPLICATION
 ID: 514421
 REVISION: 0

APPROVALS

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

	PRINT NAME	SIGNATURE	DATE
INTERNAL REVIEW	_____	_____	_____
CONSTRUCTION SIGNATURE	_____	_____	_____
RF SIGNATURE	_____	_____	_____
REAL ESTATE SIGNATURE	_____	_____	_____

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (4502 10TH AVE HANFORD, CA 93230)

GET ON CA-99 S IN TULARE COUNTY FROM CA-43 S AND CA-198 E FOR 17.9 MI, FOLLOW CA-99 S AND CA-58 E TO CA-202 W/CA-58B/TUCKER RD IN
 KERN COUNTY. TAKE EXIT 148 FROM CA-58 E FOR 111 MI, CONTINUE ON CA-202 W/W VALLEY BLVD. TAKE BEAR VALLEY RD AND DEERTRAIL DR
 TO SURREY WAY IN BEAR VALLEY SPRINGS

APPLICABLE CODES/REFERENCE
 DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS 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:

CODE TYPE	CODE
BUILDING	2019 CALIFORNIA BUILDING CODE/ 2018 IBC
MECHANICAL	2019 CALIFORNIA BUILDING CODE/ 2018 UMC
ELECTRICAL	2019 CALIFORNIA ELECTRICAL CODE/ 2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY OTHERS

MOUNT ANALYSIS: BY OTHERS



CALL CALIFORNIA ONE CALL
 (800) 227-2600
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



PROJECT TEAM

TELTCYTE A&E FIRM: TELTCYTE INFRASTRUCTURE SERVICES
 3450 N HIGLEY RD - SUITE 102
 MESA, AZ 85215
 CWOLFE@TELTCYTE.COM

CROWN CASTLE USA INC. DISTRICT CONTACTS:
 1 PARK PLACE, SUITE 300
 DUBLIN, CA 94568

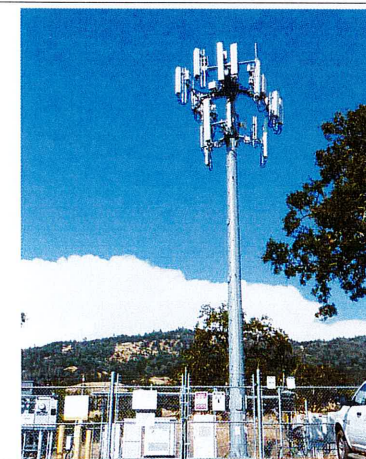
SHANNA PYKA - PROJECT MANAGER
 661-330-3745

GARY HORACE - CONSTRUCTION MANAGER
 925-737-1068

VERIZON CONTACTS: WENDY SCHWIMER - PROJECT MANAGER

LORRRAINE DAVIES - REAL ESTATE SPECIALIST
 MARCI BRAWLEY - CONSTRUCTION MANAGER

SITE PHOTO:



SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER.....2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALLS.....3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N, TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

GENERAL NOTES:













1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR- _____
 SUBCONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)
 CARRIER- VERIZON
 TOWER OWNER- CROWN CASTLE
 OEM- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCIEVER STATION
- (E) EXISTING
- MIN. MINIMUM
- REF REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BAR
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

SYMBOLS:

-  SOLID GROUND BUS BAR
-  SOLID NEUTRAL BUS BAR
-  SUPPLEMENTAL GROUND CONDUCTOR
-  2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  CHEMICAL GROUND ROD
-  TEST WELL
-  DISCONNECT SWITCH
-  METER
-  EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
-  MECHANICAL CONNECTION
-  GROUNDING WIRE

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "VERIZON".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS. #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

NEC INSULATOR COLOR CODE

DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
	PHASE A	BROWN
480V, 3Ø	PHASE B	ORANGE
	PHASE C	YELLOW
	PHASE A	GREEN

* SEE NEC 210.5(C)(1) AND (2)



4502 10TH AVE
HANFORD, CA 93230



VERIZON SITE NUMBER:
110914

BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CDS	CW



SIGNED, 9 APR 2020

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SHEET NUMBER: **T-2** REVISION: **0**

verizon

4502 10TH AVE
HANFORD, CA 93230

**CROWN
CASTLE**

VERIZON SITE NUMBER:
110914

BU #: **857683**
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

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1 OVERALL SITE PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



verizon

4502 10TH AVE
HANFORD, CA 93230



VERIZON SITE NUMBER:
110914

BU #: **857683**
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

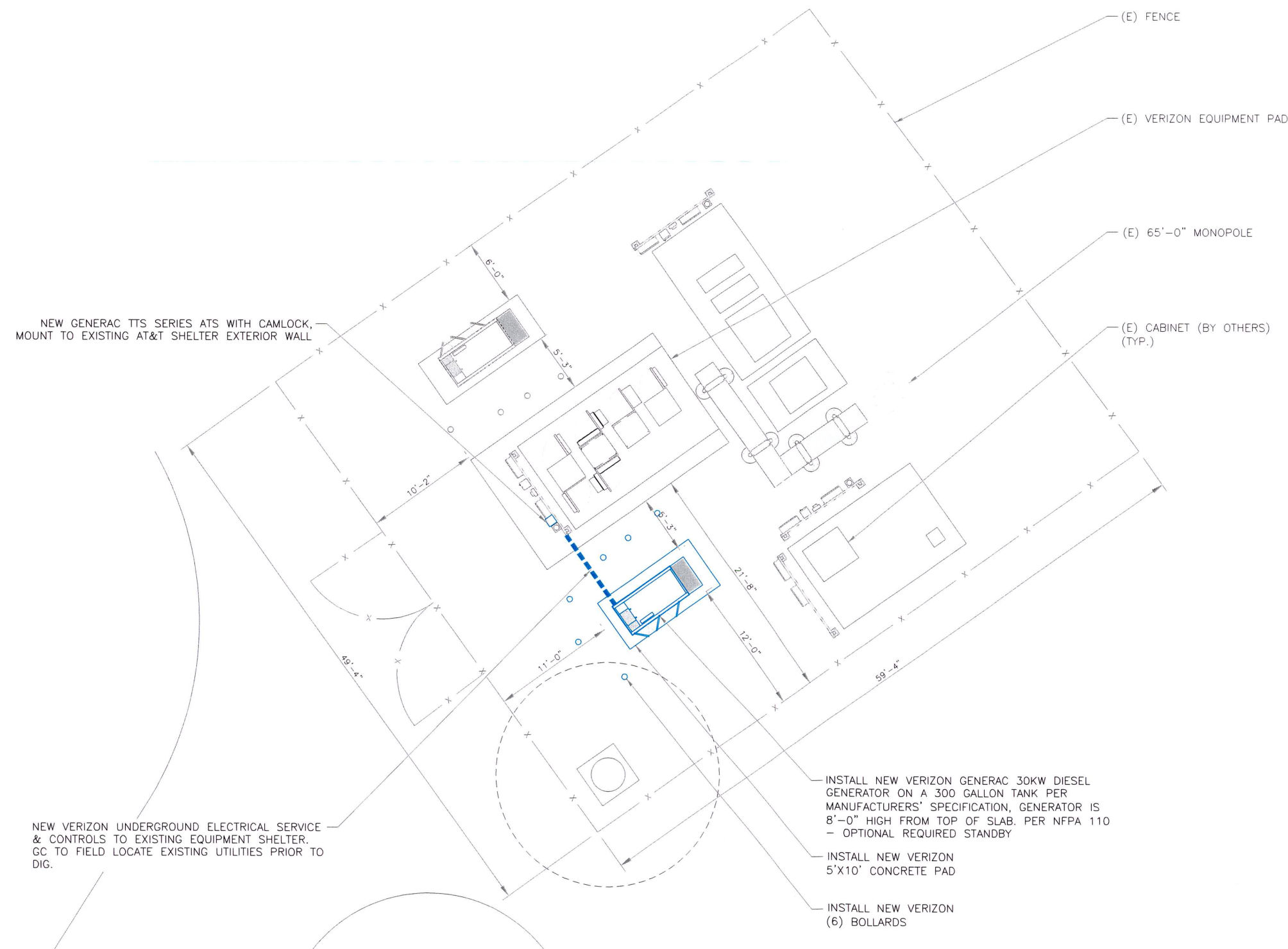
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1 SITE PLAN
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



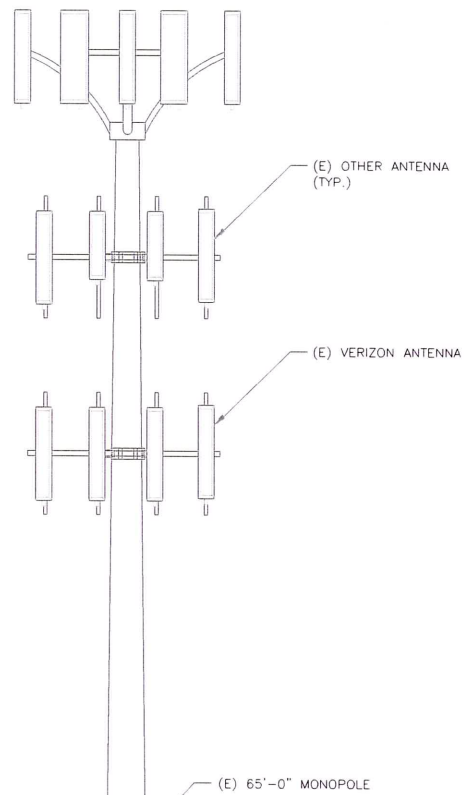
VERIZON EQUIPMENT

ANTENNA CL: 46'-0"
MOUNT CL: 46'-0"

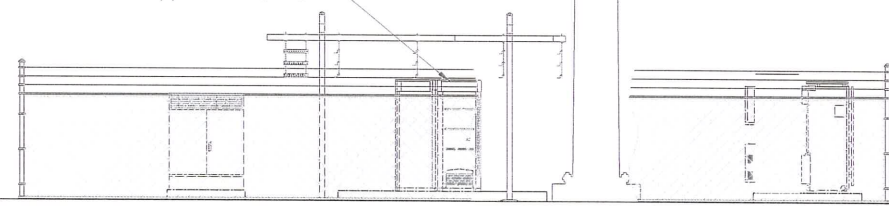
- OVERALL STRUCTURE HEIGHT
ELEV. = 158'-0"
- OTHER ANTENNA RAD CENTER
ELEV. = 69'-0"
- TOP OF MONOPOLE
ELEV. = 65'-0"

- OTHER ANTENNA RAD CENTER
ELEV. = 57'-2"

- EXST. VERIZON RAD CENTER
ELEV. = 46'-0"



(E) VERIZON EQUIPMENT



- (E) GRADE
ELEV. = 0'-0"

1 EXISTING ELEVATION
SCALE: NOT TO SCALE

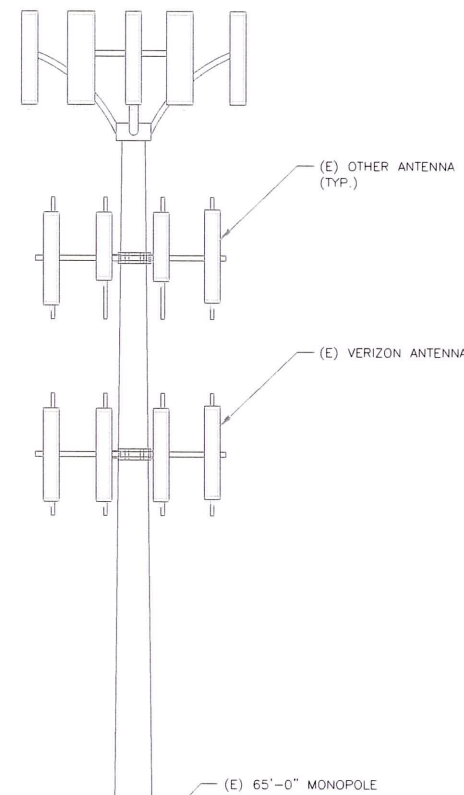
VERIZON EQUIPMENT

ANTENNA CL: 46'-0"
MOUNT CL: 46'-0"

- OVERALL STRUCTURE HEIGHT
ELEV. = 158'-0"
- OTHER ANTENNA RAD CENTER
ELEV. = 69'-0"
- TOP OF MONOPOLE
ELEV. = 65'-0"

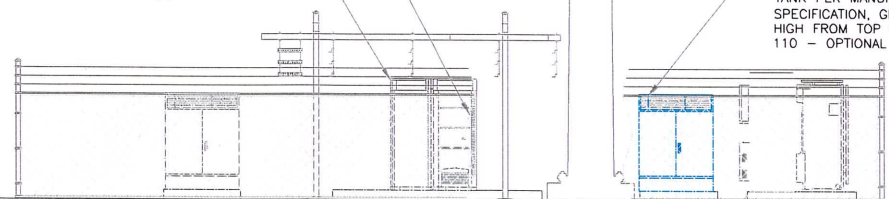
- OTHER ANTENNA RAD CENTER
ELEV. = 57'-2"

- EXST. VERIZON RAD CENTER
ELEV. = 46'-0"



NEW GENERAC TTS SERIES ATS WITH CAMLOCK, MOUNT TO EXISTING AT&T SHELTER EXTERIOR WALL

(E) VERIZON EQUIPMENT



INSTALL NEW VERIZON GENERAC 30KW DIESEL GENERATOR ON A 300 GALLON TANK PER MANUFACTURERS' SPECIFICATION, GENERATOR IS 8'-0" HIGH FROM TOP OF SLAB. PER NFPA 110 - OPTIONAL REQUIRED STANDBY

- (E) GRADE
ELEV. = 0'-0"

2 FINAL ELEVATION
SCALE: NOT TO SCALE

verizon

4502 10TH AVE
HANFORD, CA 93230

CROWN CASTLE

VERIZON SITE NUMBER:
110914

BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
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SIGNED, 9 APR 2020

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SHEET NUMBER:

C-2

REVISION:

0

STRUCTURAL GENERAL NOTES

1.0 GENERAL CONDITIONS

- 1.1 DESIGN AND CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI-318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, AND THEIR AGENTS FROM ANY LIABILITY WHATSOEVER AND HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTION WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS.
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN LOADS ARE (GENERAC):

LIVE LOAD	: 100 PSF
EQUIPMENT SIZE	: 144" H, 106" W, 37.4" D
WEIGHT WITH WOODEN SHIPPING SKID	
ENCLOSED GENERATOR WITH EMPTY FUEL TANK	: 3974 LBS
TANK SIZE	: 190 GAL

- 2.0 FOR DESIGN AND ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.

3.0 CONCRETE

- 3.1 MEET OR EXCEED THE FOLLOWING CODES AND STANDARDS:

DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REINF.	: ASTM A 615 GRADE 60, DEFORMED
STEEL MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)

- 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM.
- 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL.
- 3.4 PROVIDE AIR ENTRAINMENT CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.5 MAXIMUM AGGREGATE SIZE: 3/4"
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4.0 FOUNDATION AND EXCAVATION NOTES
- 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1500 PSF.
- 4.2 ALL ORGANIC AND / OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION AND SLAB SUBGRADE AND BACKFILL AREAS, AND THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

1 STRUCTURAL NOTES
SCALE: NOT TO SCALE

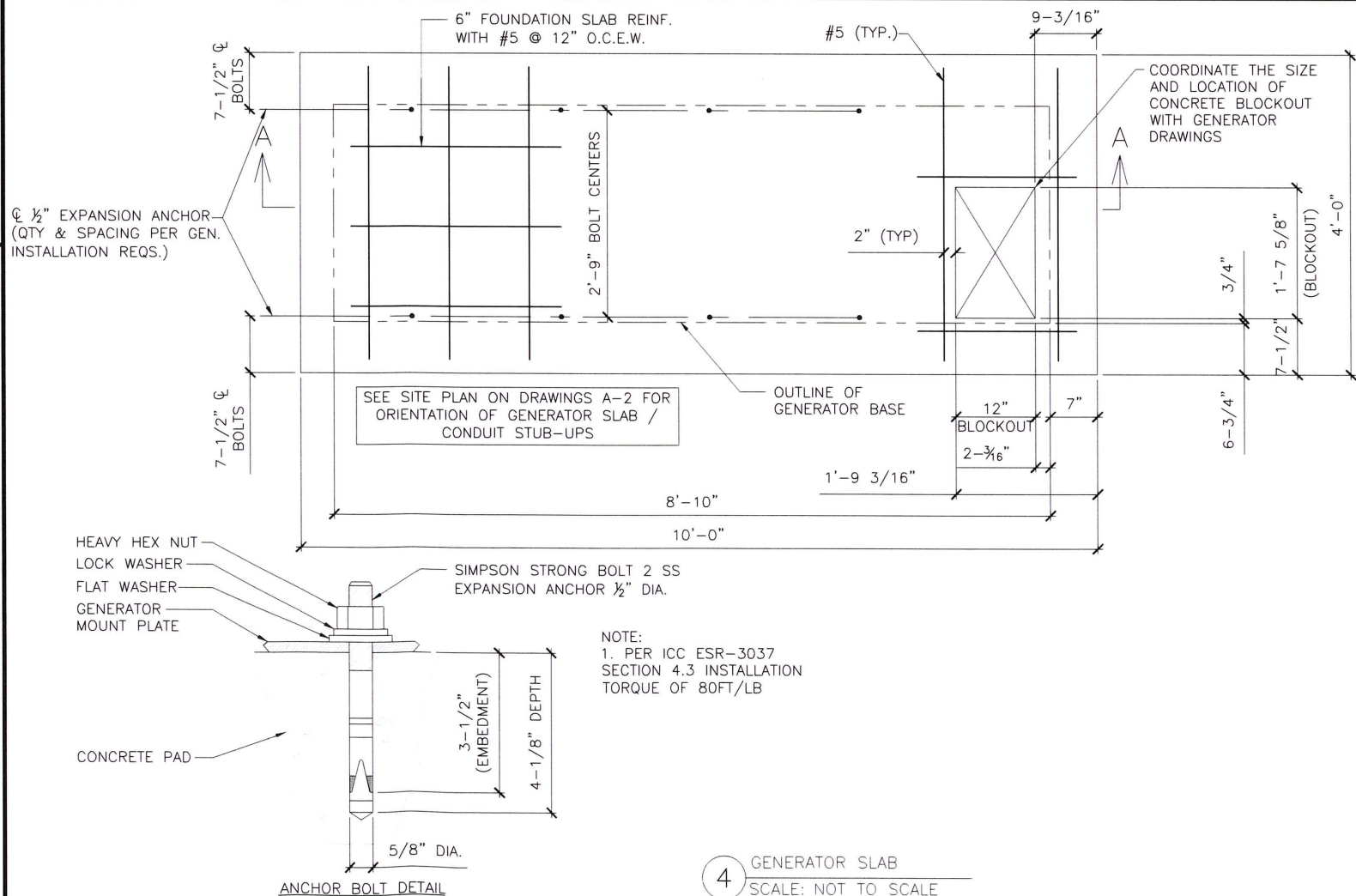
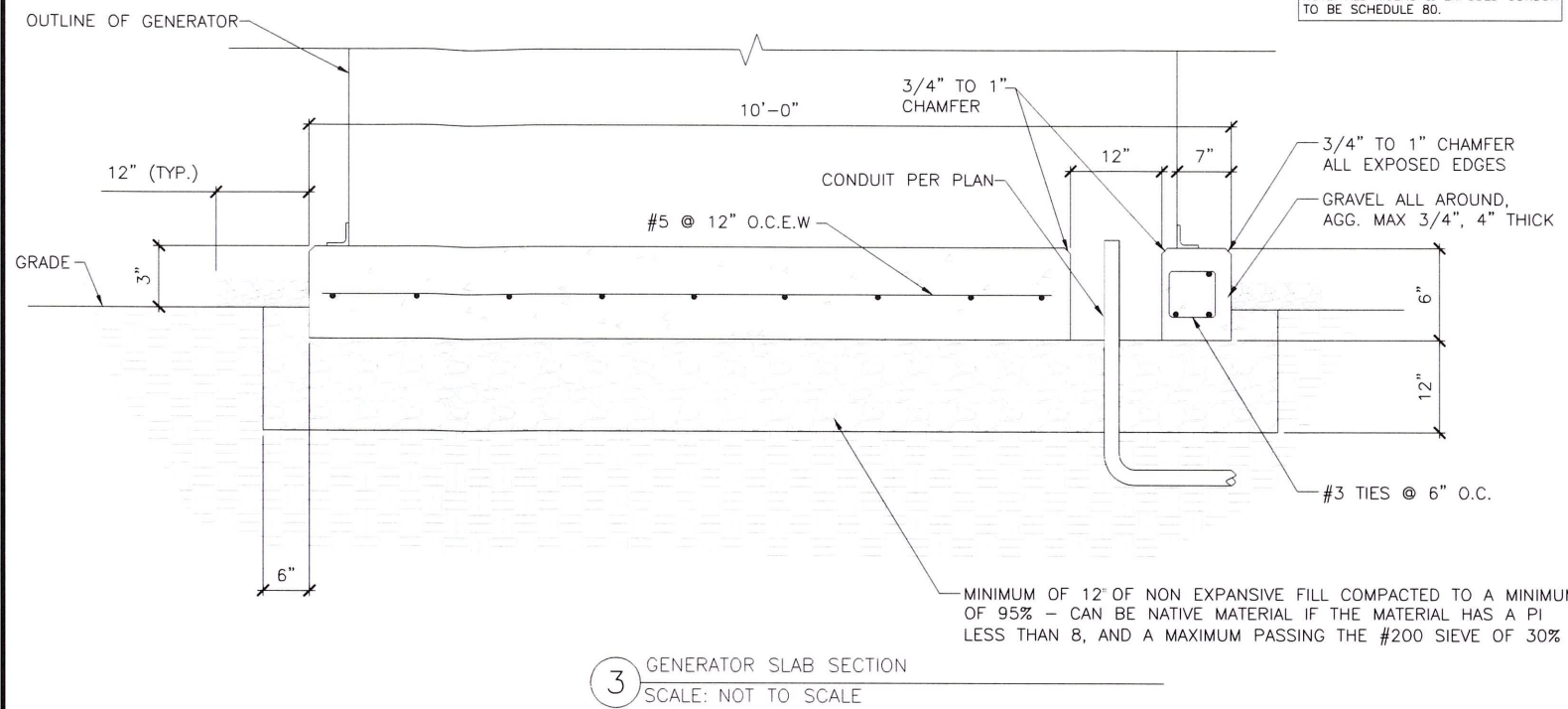
DOUBLE WALL FUEL TANK BASE GENERAL NOTES

REF: ATT 30KW GENERATOR PACKAGE

UL REGISTRATION NUMBER: MH18459
U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION
FUEL TANK BASE CONSTRUCTION:

- BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN ACCORDANCE WITH FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, NFPA 30; THE STANDARD FOR INSTALLATION AND USE OF STATIONARY COMBUSTIBLE ENGINE AND GAS TURBINES, NFPA 37; AND THE STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, NFPA 110.
 - ANCHORS MINIMUM (4) @ 1/2" FOR GEN-SET MOUNTING
SUB BASE TANK TESTING: PRIMARY TANK AND SECONDARY CONTAINMENT BASIN SECTIONS SHALL BE PRESSURIZED AT 3-5 PSI AND LEAK-CHECKED TO ENSURE INTEGRITY OF SUB BASE WELD SEAMS PER UL-142 STANDARDS
- FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM
- 40% REMAINING FOR ALARM
 - 20% REMAINING FOR SHUT-DOWN
- FACTORY PRE-SET AT 95% FULL FOR ALARM
- FUEL CONTAINMENT BASIN: SUB BASE TANK SHALL INCLUDE A WELDED STEEL CONTAINMENT BASIN, SIZED AT A MINIMUM OF 110% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTURE. A FUEL CONTAINMENT BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED.

2 DOUBLE WALL FUEL TANK BASE SPECIFICATION
SCALE: NOT TO SCALE



verizon

4502 10TH AVE
HANFORD, CA 93230

CROWN CASTLE

VERIZON SITE NUMBER:
110914

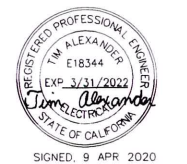
BU #: **857683**
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CD'S	CW



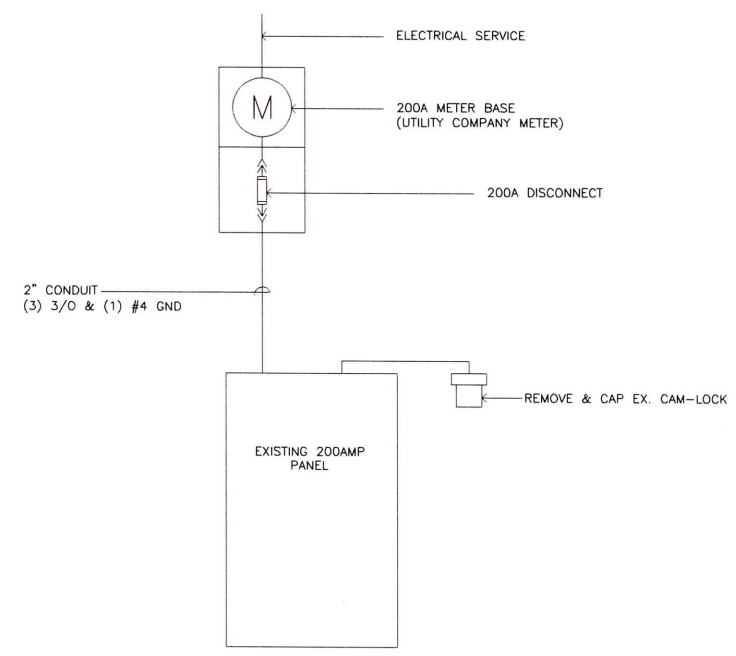
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SHEET NUMBER: **C-3** REVISION: **0**

DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	PANEL WITH AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO PANEL AND ATS
2	GENERATOR	PANEL WITH AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	EMERGENCY POWER FEEDER TO ATS
3	AUTOMATIC TRANSFER SWITCH	GENERATOR	(3) 3/0	(1) #2	2"	FUNCTION
4	PANEL	GENERATOR	(4) #12	(1) #10	2"	HEATER AND BATTERY CHARGER
5	PANEL	AUTOMATIC TRANSFER SWITCH	(2) #12	(1) #12	2"	ATS CONTROLLER
6	ATS	GENERATOR	(2) #14	N/A	2"	NO VOLTAGE ON THESE JUST A CONTACT
7	GENERATOR	TELCO BOARD	(2) #14	N/A	2"	NO VOLTAGE ON THESE JUST A CONTACT
8	AUTOMATIC TRANSFER SWITCH	TELCO BOARD	(2) #14	N/A	2"	NO VOLTAGE ON THESE JUST A CONTACT

1 CIRCUIT DETAIL
SCALE: NOT TO SCALE



3 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

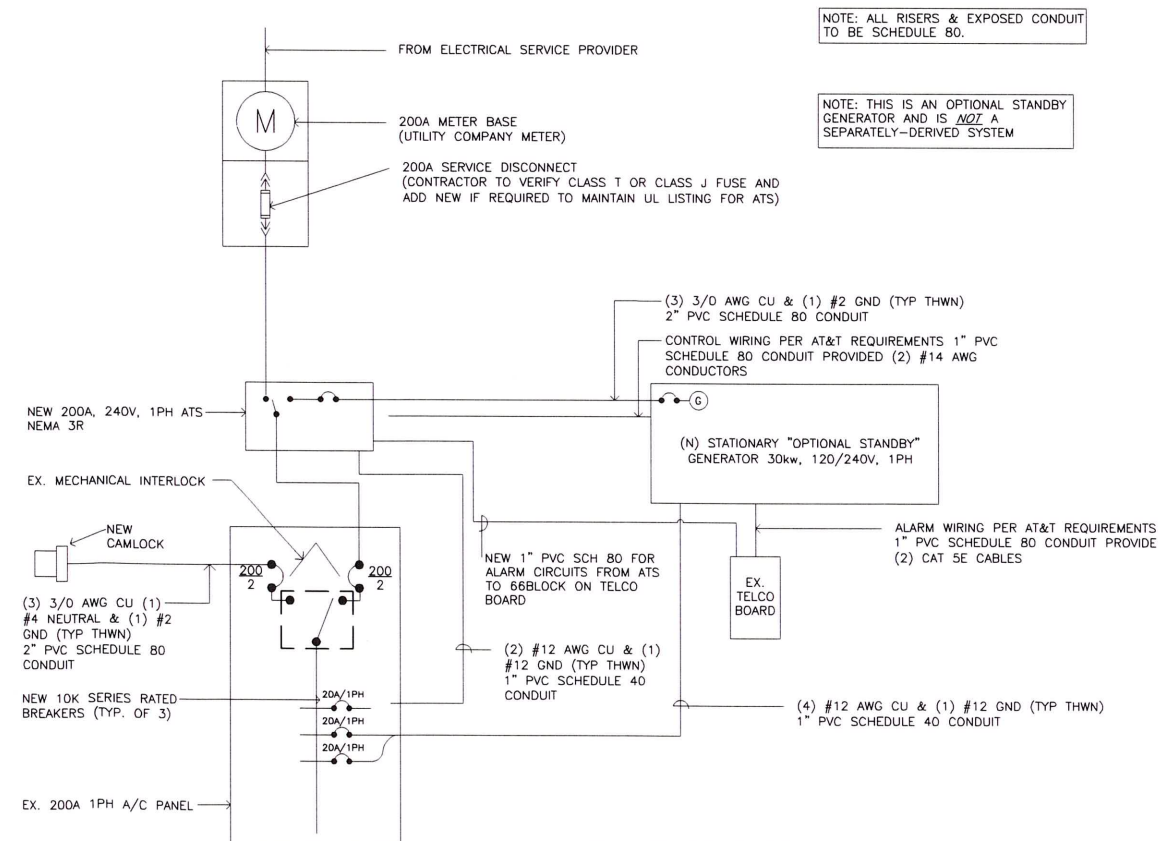
DIAGRAM CIRCUIT SCHEDULE

GENERATOR ALARM WIRING		ATS ALARMS WIRING	
66 BLOCK	GENERATOR	66 BLOCK & ATS NAMED SAME	
GEN RUN	GEN RUNNING	COMMERCIAL POWER FAIL	
GEN FAIL	GEN SHUT DOWN	TVSS	
GEN MAJOR	GEN COMMON ALARM	ATS ENABLE	
LOW FUEL	LOW FUEL		
FUEL LEAK	RUPTURED BASIN		

NOTE: CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

NOTE: ALL ALARMS NEED TO BE TERMINATED INSIDE OF GENERATOR BY GC. ALL ALARMS NEED TO BE TO EXISTING ACTIVE 66 BLOCK.

2 ALARM WIRING IDENTIFICATION DETAIL
SCALE: NOT TO SCALE



4 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

verizon

4502 10TH AVE
HANFORD, CA 93230

CROWN CASTLE

VERIZON SITE NUMBER:
110914

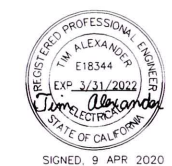
BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

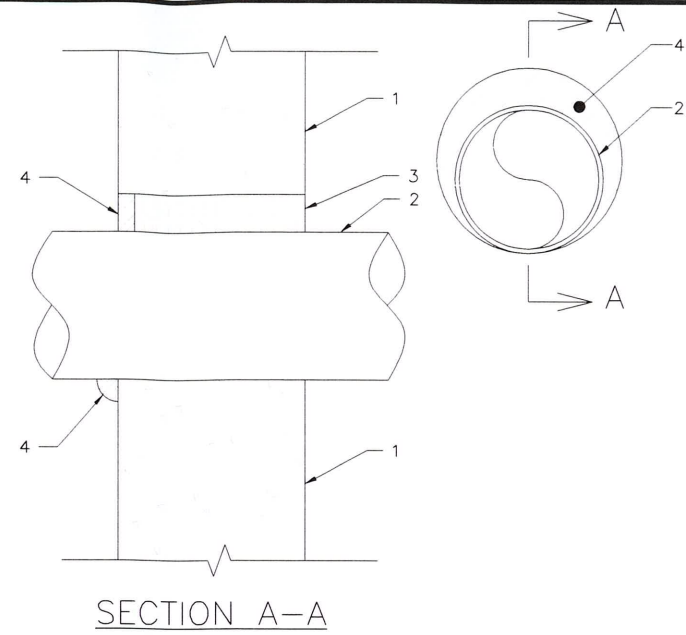
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CDS	CW



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SHEET NUMBER: **E-1** REVISION: **0**



SECTION A-A

NOTE: IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HOUR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED

NOTE: GC SHALL USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL

U.L. SYSTEM NO. C-AJ-1150
CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN

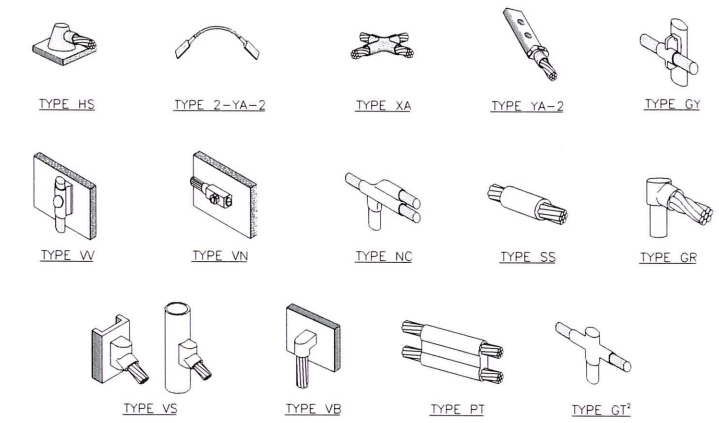
F RATING = 3 HR
T RATING = 0 HR

- FLOOR OR WALL ASSEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS (CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
 - A. STEEL PIPE - NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE - NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP601S OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP601S, CP604, CP606, OR FS-ONE SEALANT.

* BEARING THE UL CLASSIFICATION MARK

2 OUTER WALL PENETRATION DETAIL
SCALE: NOT TO SCALE



- NOTE:
- ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 - MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

3 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

1 PANEL PHOTO
SCALE: NOT TO SCALE



VERIZON SITE NUMBER:
110914

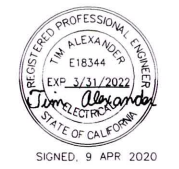
BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CDS	CW



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SHEET NUMBER: **E-2** REVISION: **0**

VERIZON SITE NUMBER:
110914

BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
 POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

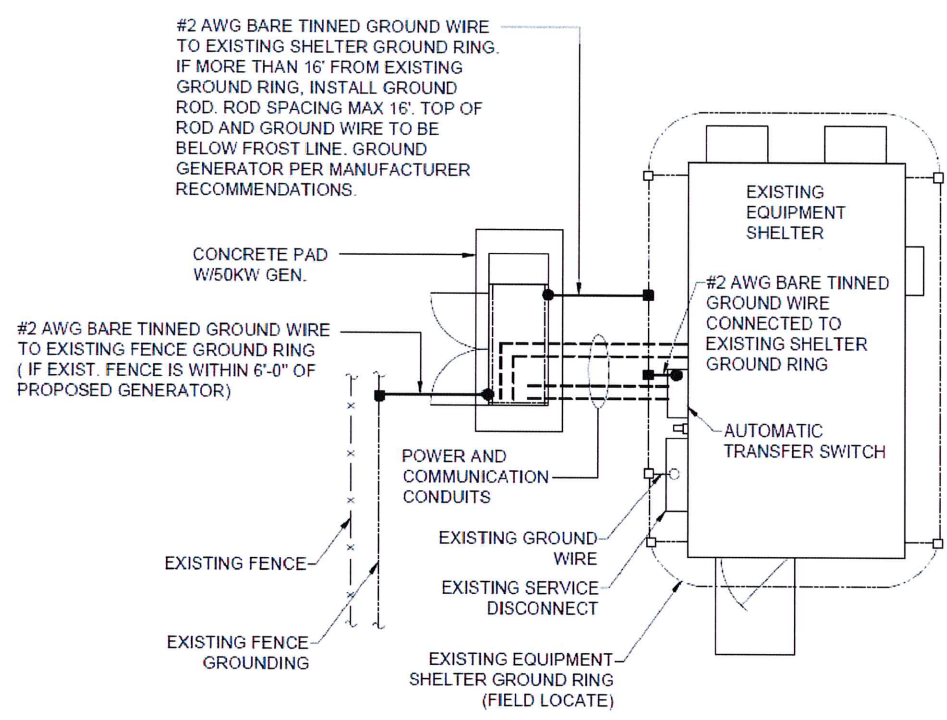
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CD'S	CW

REGISTERED PROFESSIONAL ENGINEER
 T.W. ALEXANDER
 E18344
 EXP. 3/31/2022
 State of California
 SIGNED, 9 APR 2020

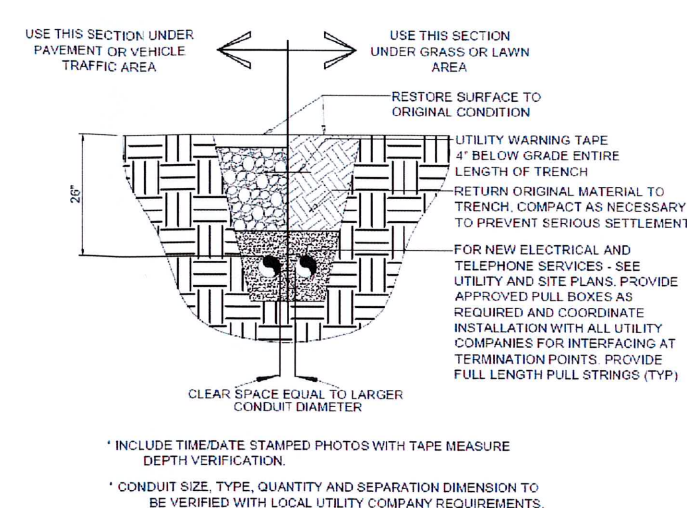
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SHEET NUMBER: **E-3** REVISION: **0**



FOR ACTUAL ORIENTATION OF GENERATOR, SHELTER, FENCE, TOWER & U/G POWER/TELCO CONDUITS SEE DRAWINGS A-1

1 GROUND SITE PLAN
 SCALE: NOT TO SCALE



MINIMUM COVER REQUIREMENTS, 0 TO 600 VOLTS, NOMINAL, BURIAL IN INCHES

LOCATION OF WIRING METHOD OR CIRCUIT	TYPE OF WIRING METHOD OR CIRCUIT	
	DIRECT BURIAL CABLES OR CONDUCTORS	RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT
ALL LOCATIONS NOT SPECIFIED BELOW	24 INCHES	6 INCHES
IN TRENCH BELOW 2 INCH THICK CONCRETE OR EQUIVALENT	18 INCHES	6 INCHES
UNDER STREETS OR HIGHWAYS	24 INCHES	24 INCHES

COVER IS DEFINED AS THE SHORTEST DISTANCE IN INCHES MEASURED BETWEEN A POINT ON THE TOP SURFACE OF ANY DIRECT-BURIED CONDUCTOR, CABLE, CONDUIT, OR OTHER RACEWAY AND THE TOP SURFACE OF FINISHED GRADE, CONCRETE, OR SIMILAR COVER

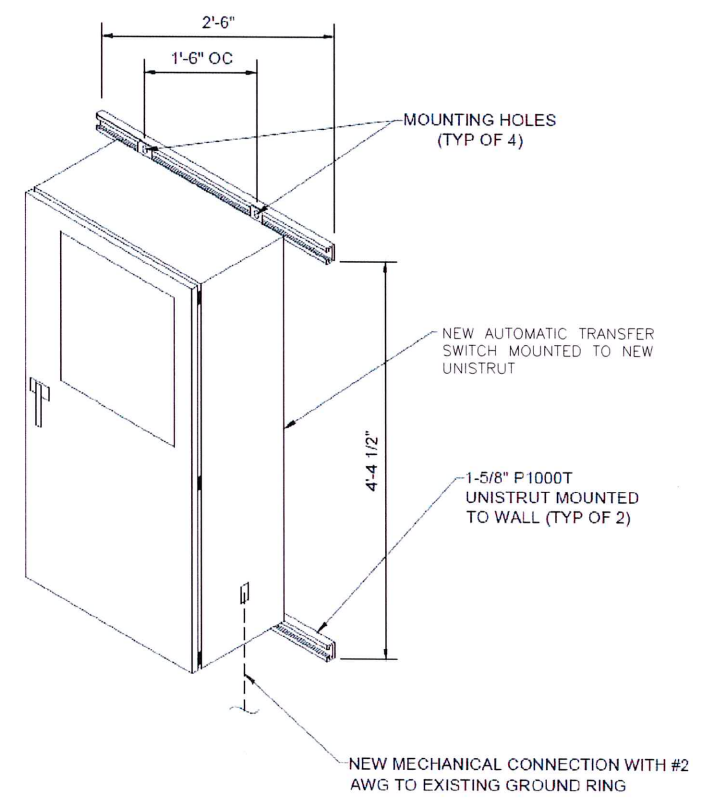
INSTALL WARNING TAPE 4" BELOW GRADE FOR THE ENTIRE LENGTH OF TRENCH

PROVIDE AT LEAST 2" OF SAND BED ABOVE CONDUIT AND 2" OF SAND BED BELOW THE CONDUIT

2 CONDUCTOR BURIAL REQUIREMENTS
 SCALE: NOT TO SCALE

UNISTRUT MOUNTING CHART

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8"Ø TOGGLE BOLT
HOLLOW, AT STUD	3/8"Ø LAG SCREW
CONCRETE BLOCK(HOLLOW)	7/16"Ø HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16"Ø HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"



NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS

NOTE: GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL

3 INTERSECT ATS MOUNTING DETAIL
 SCALE: NOT TO SCALE

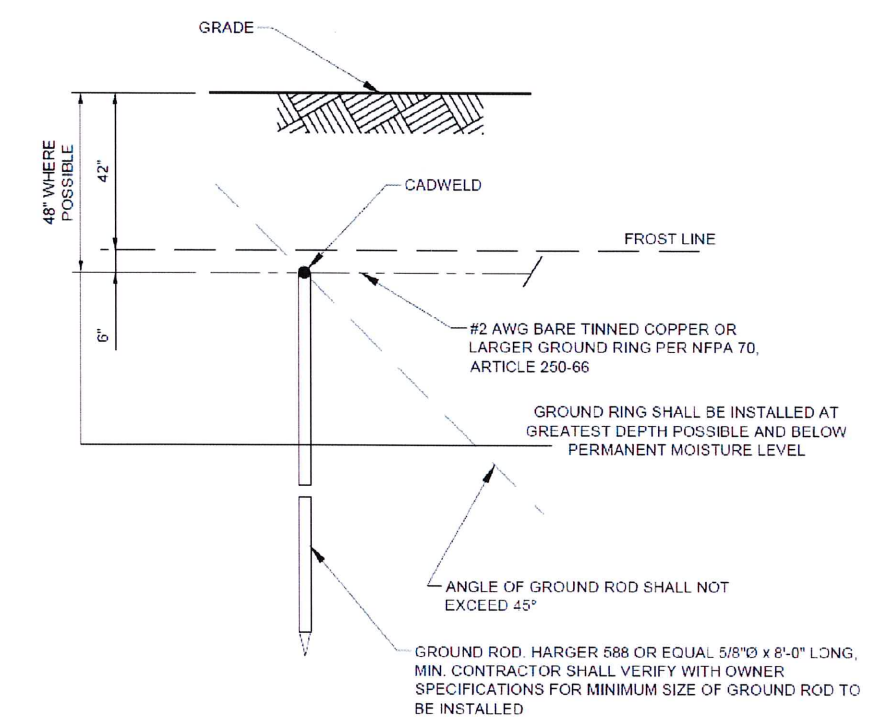
NOTE: GROUND RODS MAY BE:
 -COPPER CLAD STEEL
 -SOLID COPPER

NOTE: GROUND RODS SHALL HAVE A MINIMUM SPACING TWICE THE LENGTH OF ROD

NOTE: SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE

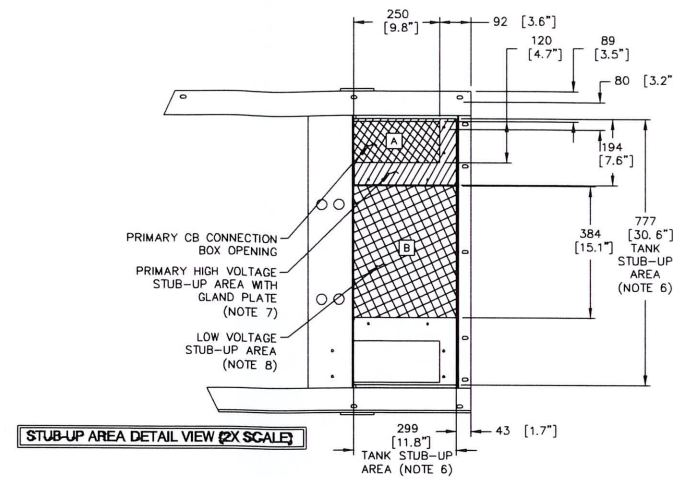
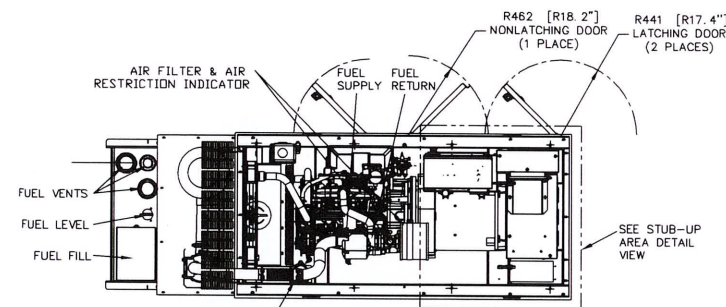
NOTE: A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL

NOTE: GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER, (SEE ANSI/TIA-EIA-222-G)



4 GROUND ROD DETAIL
 SCALE: NOT TO SCALE

OJ7500D-ATT



RECOMMENDED ELECTRICAL STUB-UPS
(SEE DETAILED VIEW & TOP VIEW)

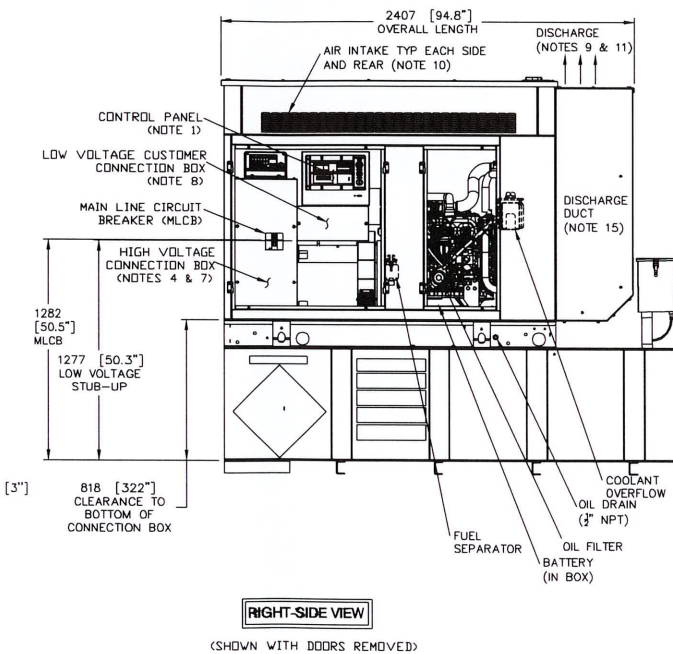
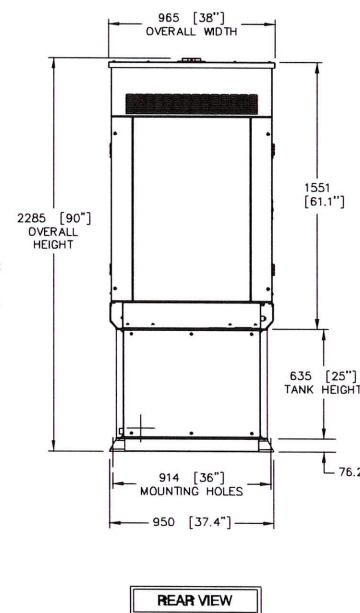
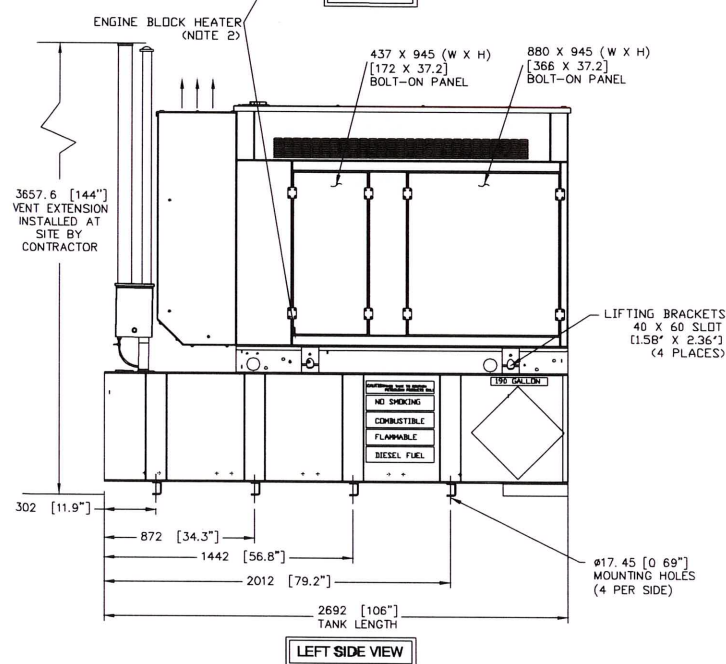
DESCRIPTION	INSIDE BASE
HIGH VOLTAGE STUB-UP AREA 1) AC LOAD LEAD CONDUIT AREA.	A
2) 120/240 VAC FROM UTILITY (BY OTHERS) (GLAND PLATE INCLUDED)	
LOW VOLTAGE STUB-UP AREA 1) TRANSFER SWITCH/ COMMUNICATION CONDUITS, COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING. (SEE NOTE 8)	B

NOTES:

- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
- 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
- 12 VOLT NEGATIVE GROUND SYSTEM.
- GENERATOR MUST BE GROUNDED.
- CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
- STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
- HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTION TO THE MAIN LINE CIRCUIT BREAKER, THE NEUTRAL CONNECTION, AND AUXILIARY 120/240V CONNECTION.
- CONNECTION POINTS FOR CONTROL WRES. BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS.
- MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
- 190 GALLON USEABLE CAPACITY BASE TANK IS INCLUDED WITH GENERATOR.
- UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
- SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

WEIGHT DATA: (INCLUDES EMPTY FUEL TANK)
GENERATOR: 1409 KG (3106 LBS)
GENERATOR WITH WOODEN SHIPPING SKID: 1474 KG (3250 LBS)

UNITS: mm [INCHES]



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INSTALLATION DRAWING

INSTALL SD030
DIESEL 2.4L G16

L2A Y02 SSM

300 GAL EXT VNT/FILL BASE TANK

GENERAC POWER SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	SIZE B
SCALE	FIRST USE CALIFORNIA
DWG. NO.	REV
OJ7500D	A

verizon
4502 10TH AVE
HANFORD, CA 93230

CROWN CASTLE

VERIZON SITE NUMBER:
110914

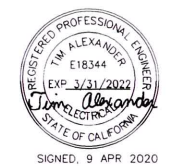
BU #: 857683
CA371 - POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

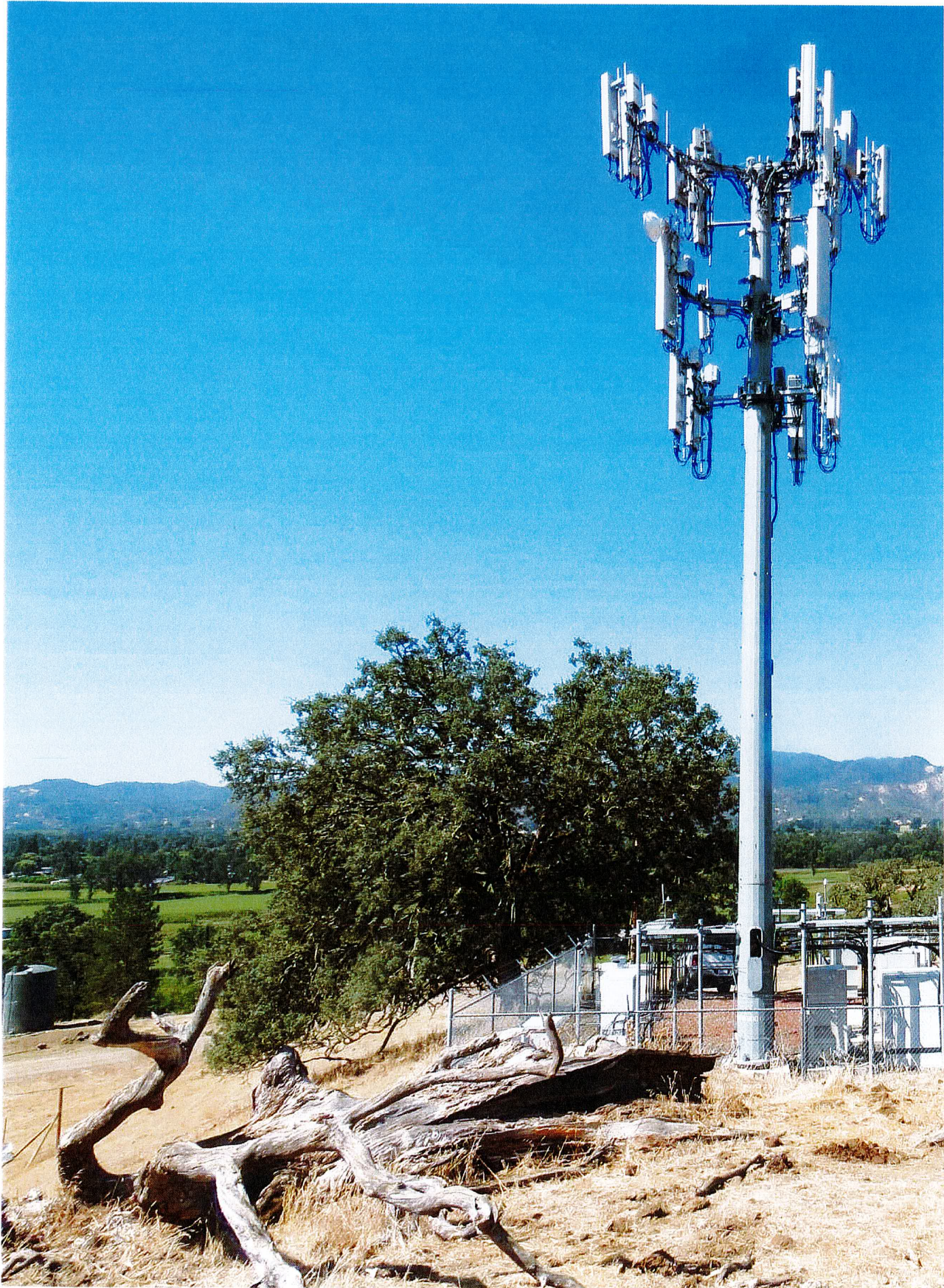
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/17/20	AK	PRELIMINARY	CW
0	04/09/20	AK	SUBMITTAL CD'S	CW



SIGNED, 9 APR 2020

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SHEET NUMBER: **E-4** REVISION: **0**



Google Maps 12500 Eel River Rd

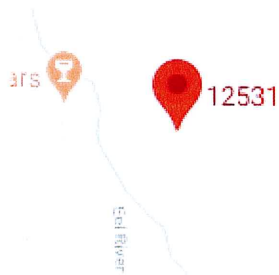


Image capture: Jun 2012 © 2020 Google

Potter Valley, California

Google

Street View







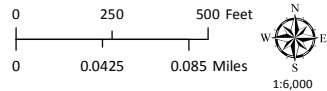
AG 40

RL

AG 40

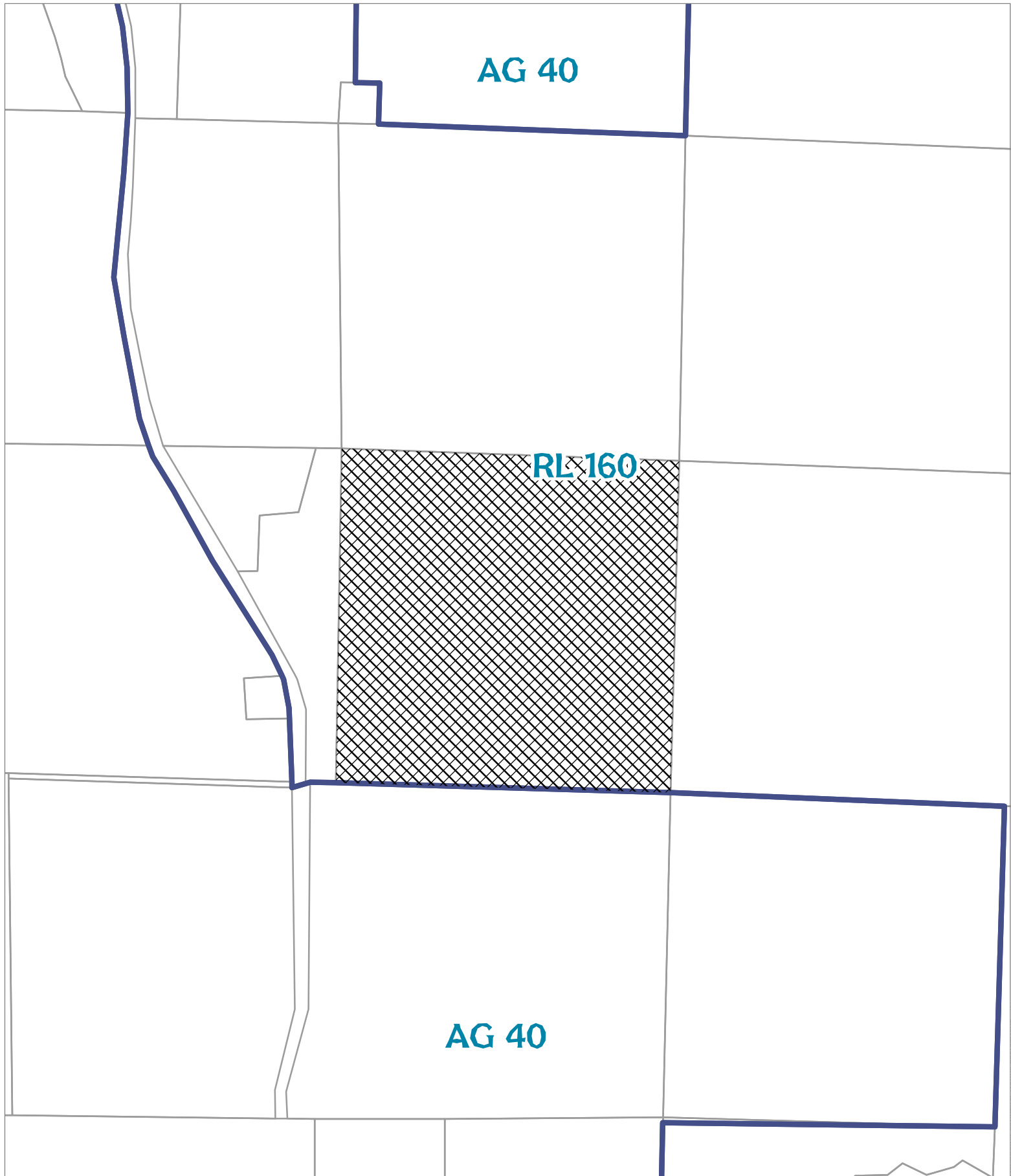
CASE: AP 2020-0020
 OWNER: OFERRALL, Dylan
 APN: 175-010-10
 APLCT: Crown Castle
 AGENT: Anthony Rhee
 ADDRESS: 12531 Eel River Road, Potter Valley

-  Zoning Districts
-  Assessors Parcels



ZONING DISPLAY MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 5/07/2020





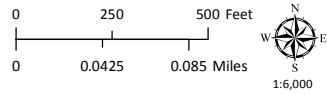
AG 40

RL 160

AG 40


CASE: AP 2020-0020
 OWNER: OFERRALL, Dylan
 APN: 175-010-10
 APLCT: Crown Castle
 AGENT: Anthony Rhee
 ADDRESS: 12531 Eel River Road, Potter Valley

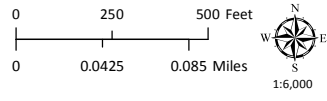
-  General Plan Classes
-  Assessor's Parcels





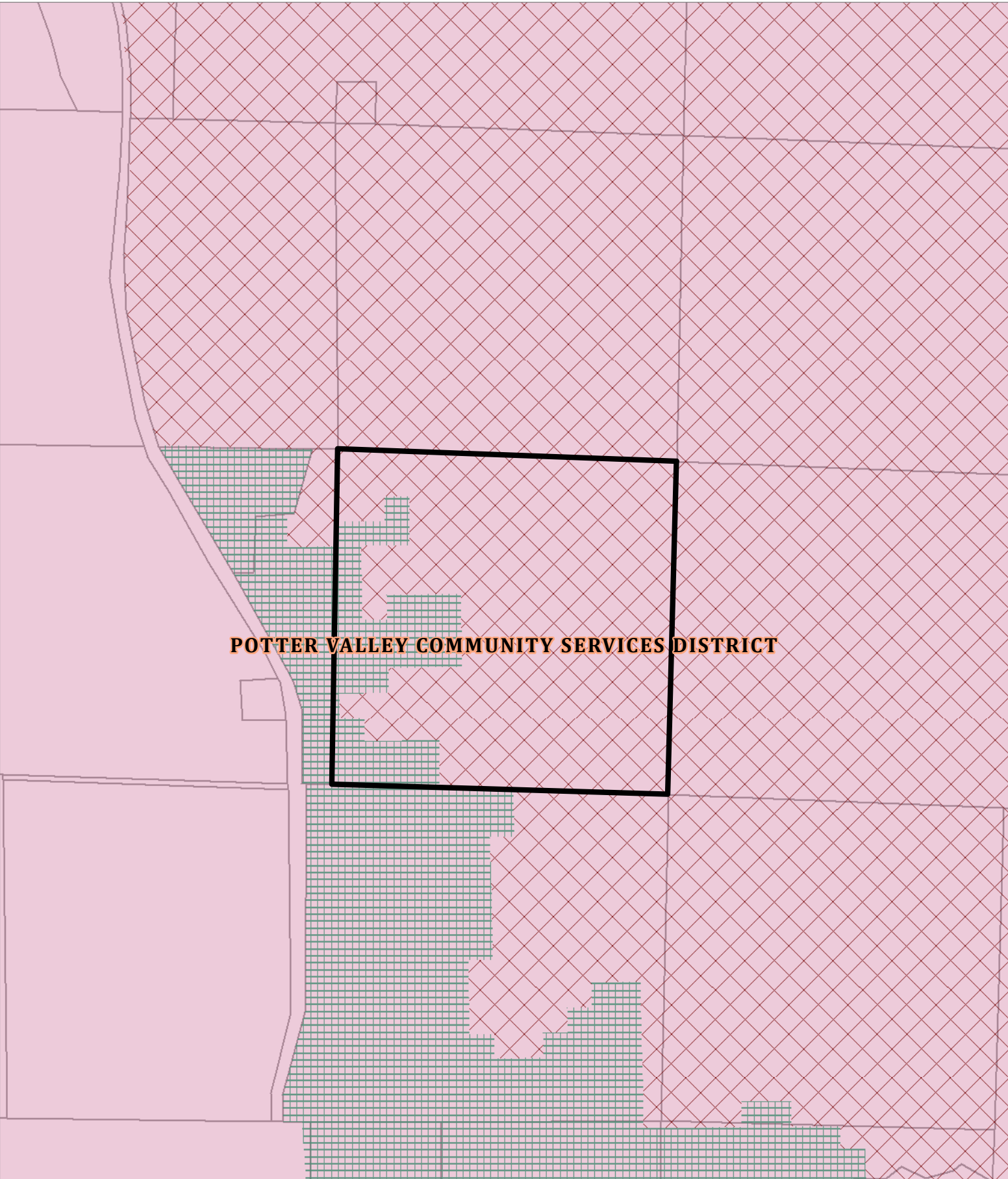
CASE: **AP 2020-0020**
 OWNER: **OFERRALL, Dylan**
 APN: **175-010-10**
 APLCT: **Crown Castle**
 AGENT: **Anthony Rhee**
 ADDRESS: **12531 Eel River Road, Potter Valley**

 Assessor's Parcels



ADJACENT PARCELS

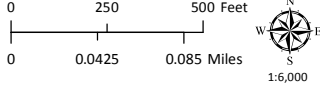
MENDOCINO COUNTY PLANNING DEPARTMENT - 5/6/2020



POTTER VALLEY COMMUNITY SERVICES DISTRICT

CASE: AP 2020-0020
 OWNER: OFERRALL, Dylan
 APN: 175-010-10
 APLCT: Crown Castle
 AGENT: Anthony Rhee
 ADDRESS: 12531 Eel River Road, Potter Valley

-  High Fire Hazard
-  Moderate Fire Hazard
-  County Fire Districts
-  Assessors Parcels



FIRE HAZARD ZONES & RESPONSIBILITY AREAS
 STATE RESPONSIBILITY AREA