



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
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pbs@mendocinocounty.org
www.mendocinocounty.org/pbs

August 20, 2020

Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor

Air Quality Management
CalFire - Prevention
Ukiah Valley Fire Protection District

Cloverdale Rancheria
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians

CASE#: AP_2020-0028

DATE FILED: 7/15/2020

OWNER: CHRISTOPHER C. NELSON

APPLICANT/AGENT: ALICIA MILLER C/O SMARTLINK FOR AT&T

REQUEST: Administrative Permit to install one 30 kilowatt back up diesel generator and a 190 gallon sub-base diesel fuel tank. Ancillary developments include placement of a 4 ft. by 10 ft. concrete pad, connection into existing electrical services and installation of an automatic transfer switch and noise reduction acoustic enclosure.

LOCATION: 6.3± miles south of the City of Ukiah, on the east side of US Highway 101 (US 101), 1± mile north of its intersection with McNab Ranch Road (private), located at 7381 South Highway 101, Ukiah (APN: 186-240-01).

SUPERVISORIAL DISTRICT: 5

STAFF PLANNER: CHEVON HOLMES

RESPONSE DUE DATE: September 3, 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_2020-0028

OWNER: CHRISTOPHER NELSON TTEE

APPLICANT: Alicia Miller c/o Smartlink for AT&T

AGENT: Alicia Miller c/o Smartlink for AT&T

REQUEST: Administrative Permit to install one 30 kilowatt back up diesel generator and a 190 gallon sub-base diesel fuel tank. Ancillary developments include placement of a 4 ft. by 10 ft. concrete pad, connection into existing electrical services and installation of an automatic transfer switch and noise reduction acoustic enclosure.

LOCATION: 6.3± miles south of the City of Ukiah, on the east side of US Highway 101 (US 101), 1± mile north of its intersection with McNab Ranch Road (private), located at 7381 South Highway 101, Ukiah (APN: 186-240-01).

APN/S: 186-240-01

PARCEL SIZE: Leased area of 1,600 Square Feet on a 53.66± Acre Parcel

GENERAL PLAN: Rangeland, 160 Acre Minimum Parcel Size (RL160)

ZONING: Rangeland, 160 Acre Minimum Parcel Size (RL:160)

EXISTING USES: Telecommunications Facility & Agriculture

SUPERVISORIAL DISTRICT: 5th (Williams)

RELATED CASES:

- Use Permit U# 1-2001 was approved by the Planning Commission on October 4, 2001 permitting Edge Wireless, now AT&T Mobility, to install a 70 foot tall wooden pole to support 3 panel antennas and a 2x2 square foot antenna, to be “flush mounted” to the pole. Although approved for 70 feet, the pole was built to a height of 67 feet.
- Use Permit Modification #UM 1-2001/2009 was approved by the Planning Commission at the November 19, 2009 public hearing allowing the 67 foot wooden pole to be replaced with a new 72 foot faux wood pole as well as permitting T-Mobile to “flush-mount” 3 panel antennas and 1 microwave dish to the pole. AT&T’s antennas were transferred to the new pole.
- Use Permit Modification #UM 1-2001/2011 was approved by The Planning Commission on September 15, 2011 permitting AT&T Wireless to mount six (6) panel antennas to an existing 72 foot tall wooden pole using T-Arms.
- Administrative Permit AP_2016-0022 was approved by the Planning Commission on November 16, 2016 to allow T-Mobile to install a 7.5 Kw generator and a 99.1 gallon propane tank.
- Administrative Permit AP_2019-0069 was approved by the Zoning Administrator October 16, 2019 to allow three (3) antennas and three (3) TMAs to be relocated to the 60 ft. height of the tower and, three (3) new antennas and three (3) RRHs to be added, one per tower sector to the pole. On the ground, one (1) DUS41 was removed and replaced with two (2) BB6630s inside the existing equipment cabinet.

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	RL160	RL:160	67.53± Acres	Agriculture
EAST:	RL160	RL:160	2.01± Acres	Agriculture
SOUTH:	RL160	RL:160	55.54± Acres	Agriculture
WEST:	RL160	RL:160	25.62± Acres	Agriculture

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Assessor’s Office
- Building Division (Ukiah)
- Environmental Health (Ukiah)
- Ukiah Valley Fire Protection District

STATE

- CALFIRE (Land Use)

TRIBAL

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

ADDITIONAL INFORMATION: The purpose of the Administrative Permit is to install a backup generator for AT&T at an existing Crown Castle (CCATT LLC) wireless facility. There will be no antenna or equipment changes, no frequency changes, no tower work and no expansion of the existing footprint.

STAFF PLANNER: CHEVON HOLMES

DATE: 8/12/2020

ENVIRONMENTAL DATA

1. MAC:

GIS

NO

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

Moderate

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

Ukiah Valley Fire Protection District & SRA

4. FARMLAND CLASSIFICATION:

GIS

Grazing Land (G) and Unique Farmland (U)

5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)

NO

6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS

N/A

7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part

Eastern Types

Bearwallow-Hellman-Witherell

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:

LCP maps, Pygmy Soils Maps; GIS

NO

9. WILLIAMSON ACT CONTRACT:

GIS/Mendocino County Assessor's Office

NO

10. TIMBER PRODUCTION ZONE:

GIS

NO

11. WETLANDS CLASSIFICATION:

GIS

NO

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS *NO*

13. AIRPORT LAND USE PLANNING AREA:

Airport Land Use Plan; GIS

NO

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:

GIS; General Plan 3-11

NO

15. NATURAL DIVERSITY DATABASE:

CA Dept. of Fish & Wildlife Rarefind Database/GIS

NO

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10

NO

17. LANDSLIDE HAZARD:

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

NO

18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34

NO

19. WILD AND SCENIC RIVER:

www.rivers.gov (Eel Only); GIS

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



PLANNING & BUILDING SERVICES

Office Use Only section with fields for Case No, Date Filed, Fee, Receipt No, and Received By.

APPLICATION FORM

APPLICANT:

Name: Alicia Miller, Smartlink, Agent for AT&T Mobility Phone: 201-473-3756
Mailing Address: 360 Civic Drive, Suite C
City: Pleasant Hill State/Zip: CA / 94523 Email: alicia.miller@smartlinkgroup.com

PROPERTY OWNER:

Name: Gregory T. Nelson (Power of Attorney is CCATT, LLC) (602) 845-1701
Mailing Address: 2055 S. Stearman Drive
City: Chandler State/Zip: AZ / 85286 Email: vendor.helpdesk@crowncastle.com

AGENT:

Name: Same as applicant Phone:
Mailing Address:
City: State/Zip: Email:

ASSESSOR'S PARCEL NUMBER/S: 186-240-01

TYPE OF APPLICATION:

- Administrative Permit (checked)
Agricultural Preserve: New Contract
Agricultural Preserve: Cancellation
Agricultural Preserve: Rescind & ReEnter
Airport Land Use
Development Review
Exception
Flood Hazard Development Permit
General Plan Amendment
Land Division - Minor
Land Division - Major
Land Division - Parcel
Land Division - Re-Subdivision
Modification of Conditions
Reversion to Acreage
Rezoning
Use Permit - Cottage
Use Permit - Minor
Use Permit - Major
Variance
Other

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

Signature of Applicant/Agent: Alicia Miller Date: 5/27/2020 Signature of Owner: (See attached Letter of Authorization) 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.

Installing a backup generator for AT&T at an existing Crown Castle (CCATT LLC) wireless facility.
~~There will be no antenna/equipment changes, no frequency changes, no tower work, no expansion of the footprint. All work for the generator installation will be completed within the existing fenced compound. Proposed Generator Model: Generac SD030 30kW, with a 190-gallon sub-base diesel fuel tank. The project includes pouring a 4' x 10' concrete pad, integrating the existing electrical service, installation of an automatic transfer switch, and Manufacturer's Acoustic Enclosure for noise shrouding.~~
The generator will only be activated during power outages and for periodic maintenance checks.

2. Structures/Lot Coverage	NO. OF UNITS		SQUARE FOOTAGE		
	EXISTING	PROPOSED	EXISTING	PROPOSED	TOTAL
<input type="checkbox"/> Single Family <input type="checkbox"/> Mobile Home <input type="checkbox"/> Duplex <input type="checkbox"/> Multifamily <input checked="" type="checkbox"/> Other: unmanned telecommunications <input type="checkbox"/> Other: facility	1	No change	1,444	No change	1,444
GRAND TOTAL (Equal to gross area of Parcel):					

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

Estimated No. of Employees per shift: N/A

Estimated No. of shifts per day: N/A

Type of loading facilities proposed: N/A

4. Will the project be phased?

YES NO If yes, explain your plans for phasing:

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

YES NO If no, explain:

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

YES NO If yes, explain:

The generator subtank will store 190 gallons of diesel fuel on site.

7. How much off-street parking will be provided? N/A

	Number	Size
No. of covered spaces:	_____	_____
No. of uncovered spaces:	_____	_____
No. of standard spaces:	_____	_____
No. of accessible spaces:	_____	_____
Existing no. of spaces:	_____	_____
Proposed additional spaces:	_____	_____
Total:	_____	_____

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.

YES NO Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

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

Amount of cut: _____ cubic yards

Amount of fill: _____ cubic yards

Max. height of fill slope: _____ feet

Max. height of cut slope: _____ feet

Amount of import/export: _____ cubic yards

Location of borrow or disposal site: _____

10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

YES NO

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

YES NO

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

YES NO If yes, explain how:

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

YES NO

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

YES NO

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

Diking: YES NO

Filling: YES NO

Dredging: YES NO

Structures: Open Coastal Waters Wetlands Estuaries Lakes

If so, what is the amount of material to be dredged/filled?: _____ cubic yards

Location of dredged material disposal site?: _____

Has a U.S. Army Corps of Engineers permit been applied for? YES NO

16. Will there be any exterior lighting?

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

17. Utilities will be supplied to the site as follows:

Electricity: Utility Company (service exists to parcel) existing to telecommunications facility

Utility Company (requires extension of service to site): _____ feet _____ miles

On Site Generation – Specify:

Gas: Utility Company/Tank

On Site Generation – Specify:

None

Telephone: YES NO

existing

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.)

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:

Building permit

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

Nelson Ranch Road and So Hwy 101

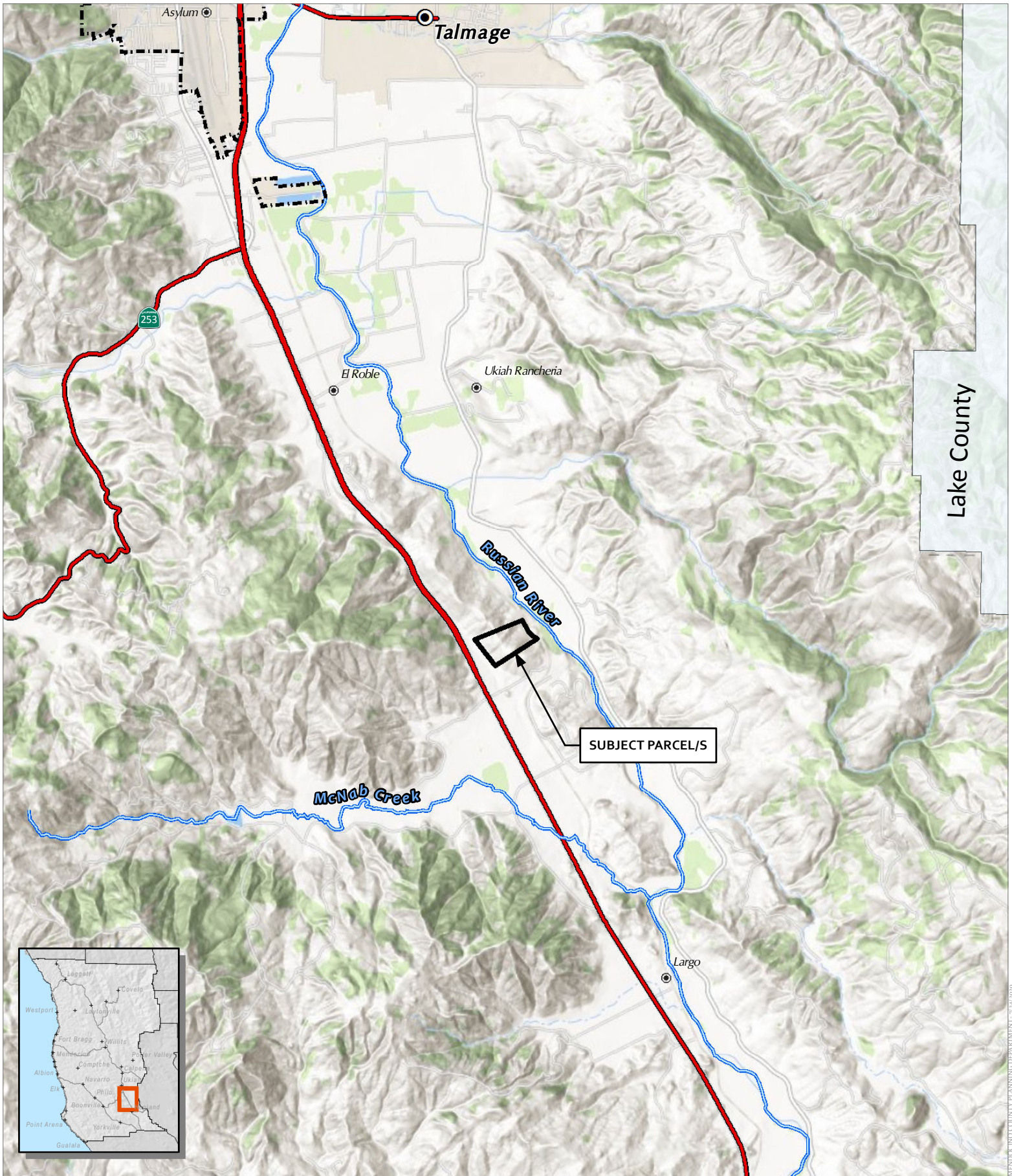
23. Are there existing structures on the property? If yes, describe below and identify the use of each structure on the plot plan or tentative map if the proposal is for a subdivision.

- YES NO

Existing unmanned telecommunications facility

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

- YES NO



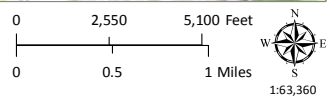
Lake County

SUBJECT PARCEL/S



CASE: AP 2020-0028
 OWNER: NELSON, Christopher C, ET AL
 APN: 186-240-01
 APLCT: AT&T Mobility
 AGENT: Alicia Millier
 ADDRESS: 7381 S. Highway 101, Ukiah

- Major Towns & Places
- Major Rivers
- City Limits
- Highways
- California Counties








LOCATION MAP

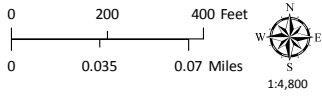
MENDOCINO COUNTY PLANNING DEPARTMENT - 7/24/2020



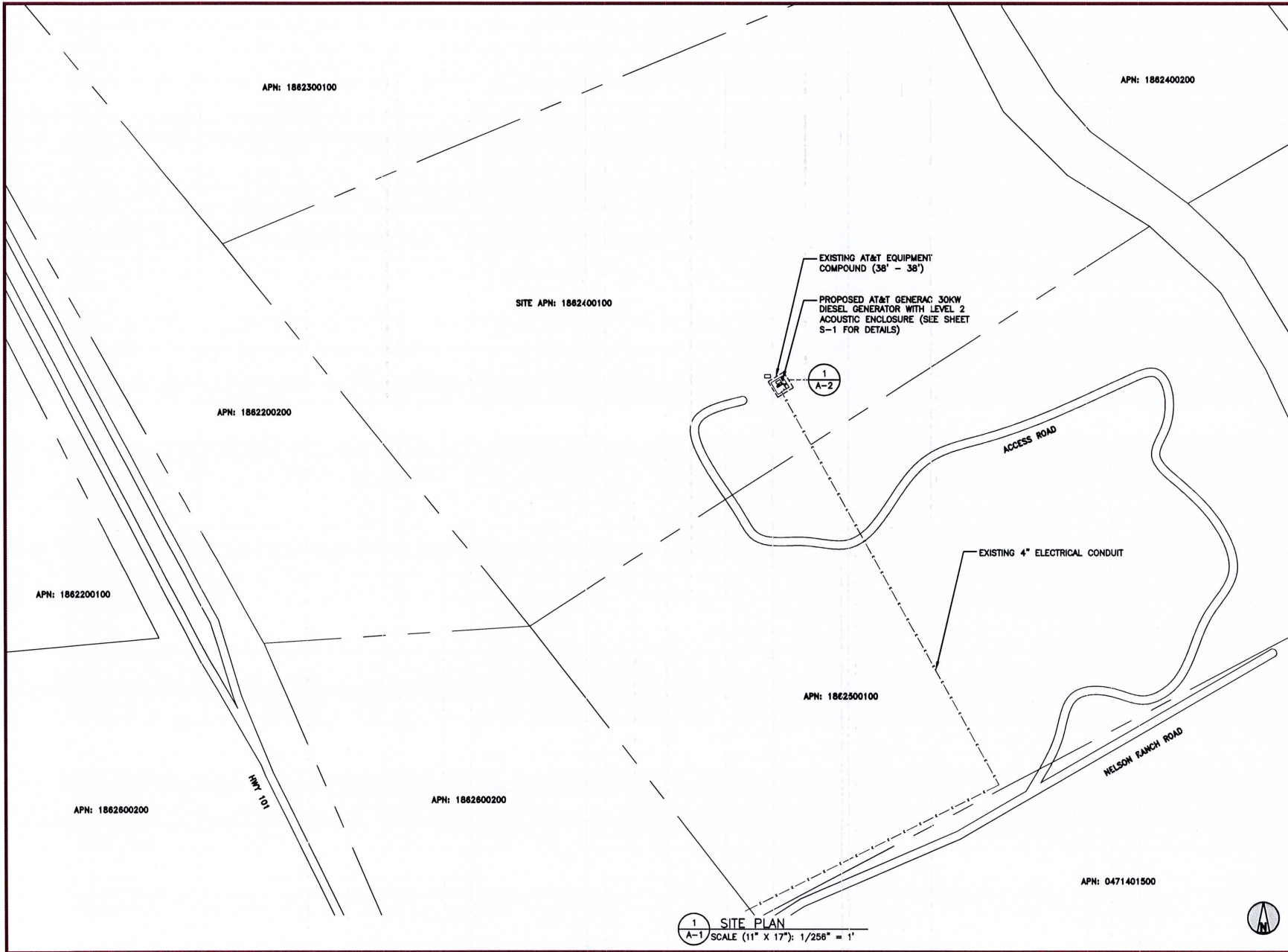
CASE: AP 2020-0028
OWNER: NELSON, Christopher C, ET AL
APN: 186-240-01
APLCT: AT&T Mobility
AGENT: Alicia Millier
ADDRESS: 7381 S. Highway 101, Ukiah

-  Named Rivers
-  Public Roads
-  Driveways/Unnamed Roads

-  Railroads
-  Wireless Sites



AERIAL IMAGERY



1825 W. WALNUT HILL LANE, SUITE 120
 IRVING, TEXAS 75038
 1-855-669-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
 PRINTED MEDIA ONLY.

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	04/23/20	90% CD	AG
0	06/19/20	ISSUE FOR CONSTRUCTION	CH
1	06/25/20	ISSUE FOR CONSTRUCTION	CH

SITE INFORMATION

FA CODE:
 10129806

SITE NAME:
 CA278 - SANEL

SITE ADDRESS:
 7381 SOUTH HWY 101
 UKIAH, CA 95482

SHEET DESCRIPTION

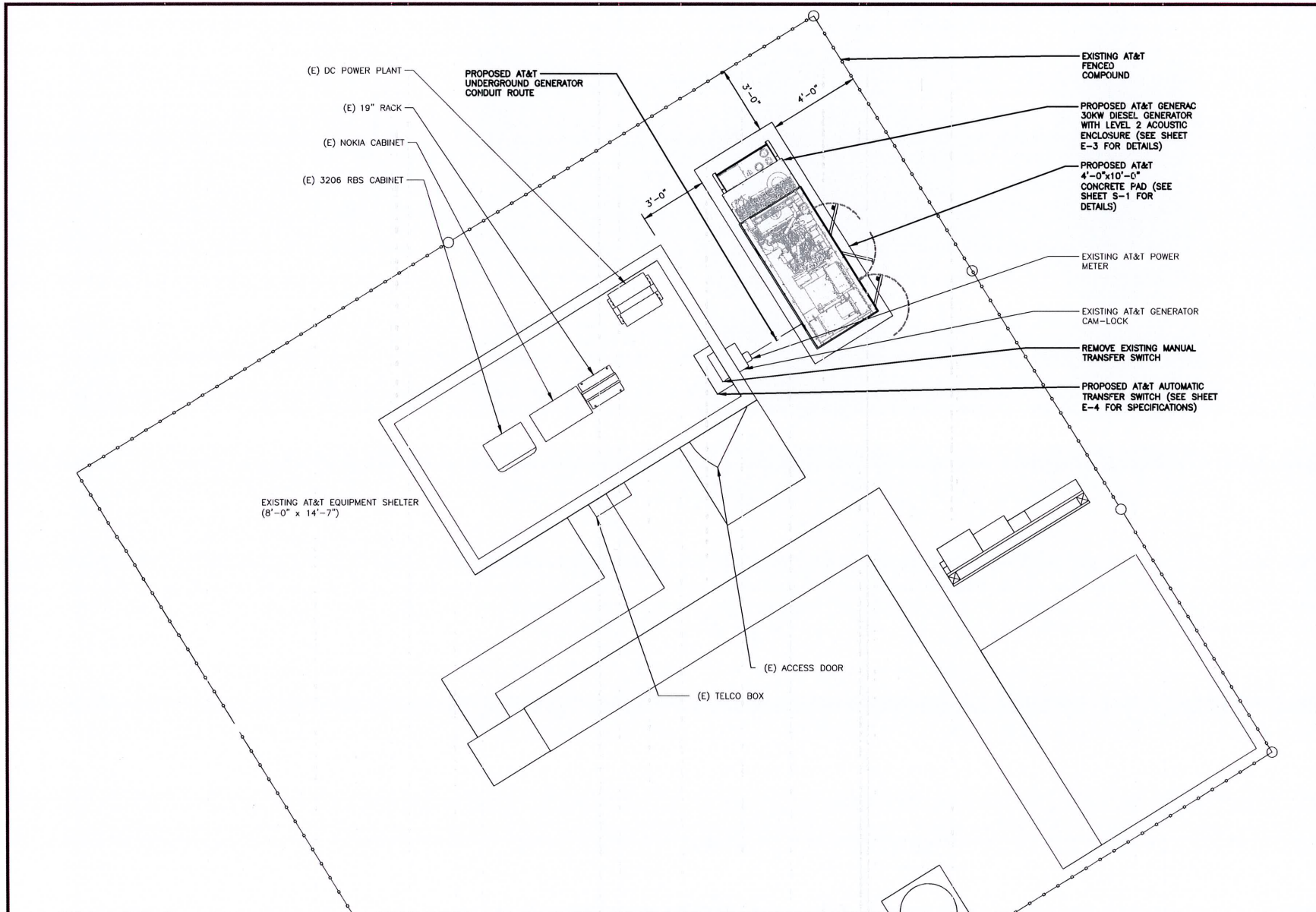
SITE PLAN

SHEET No.

A-1

1 SITE PLAN
 A-1 SCALE (11" X 17"): 1/256" = 1'





Trylon
 1825 W. WALNUT HILL LANE, SUITE 120
 IRVING, TEXAS 75038
 1-855-869-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
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SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/23/20	90% CD	AG
0	08/19/20	ISSUE FOR CONSTRUCTION	CH
1	08/25/20	ISSUE FOR CONSTRUCTION	CH

SITE INFORMATION

FA CODE:
10129806

SITE NAME:
CA278 - SANEL

SITE ADDRESS:
7381 SOUTH HWY 101
UKIAH, CA 95482

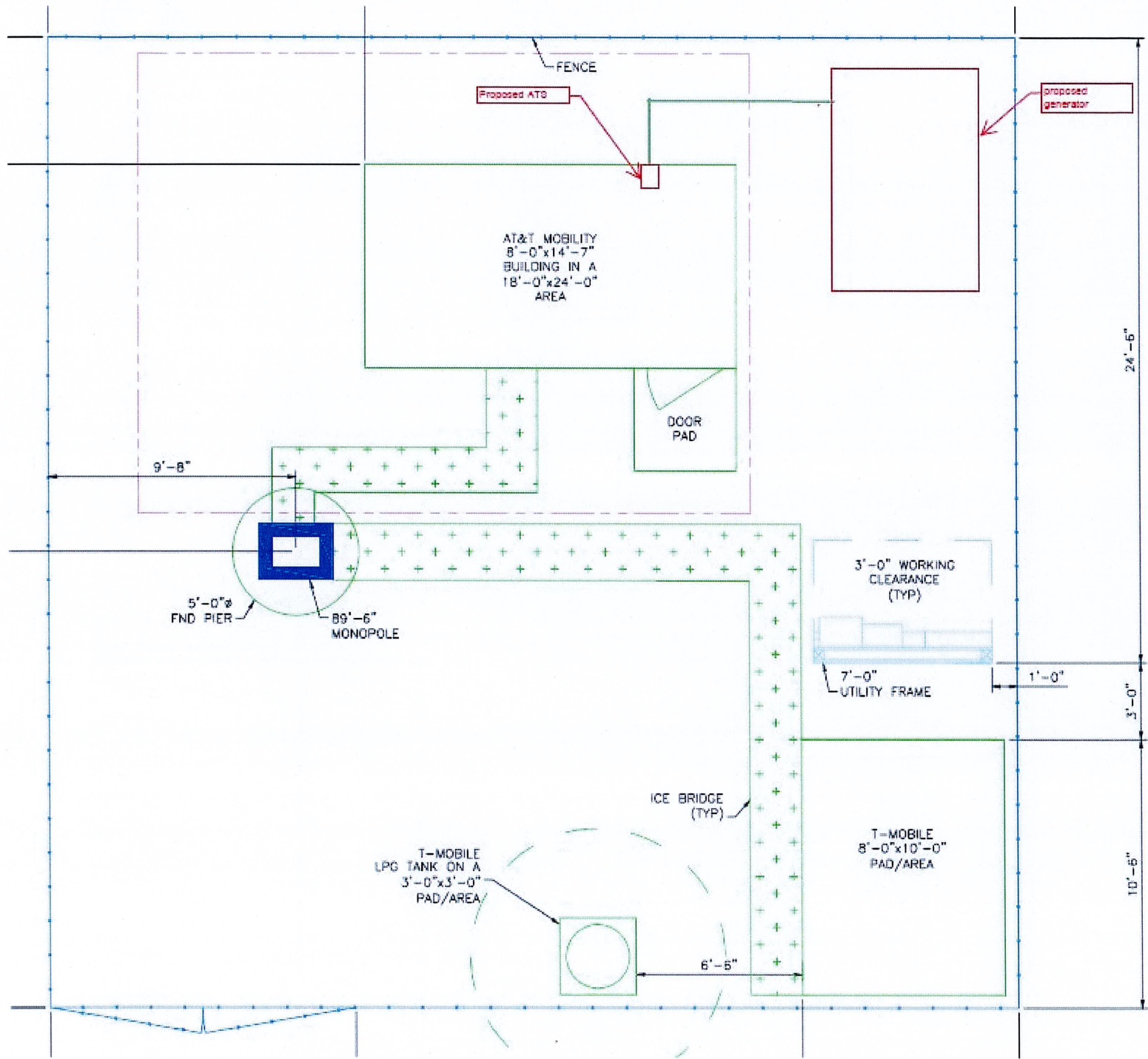
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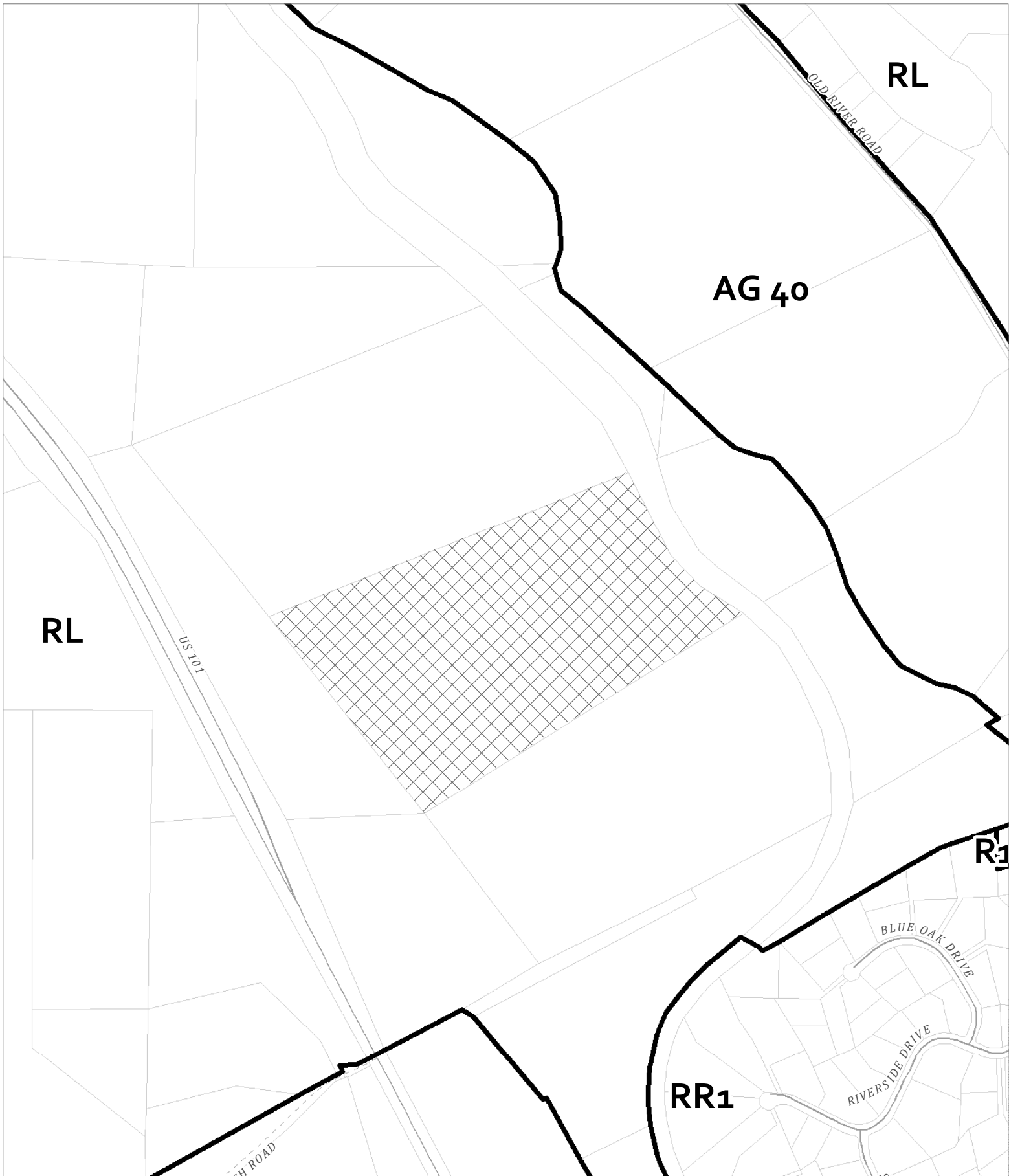
COMPOUND AND EQUIPMENT
LAYOUT

SHEET No.
A-2




1
A-2
COMPOUND LAYOUT
SCALE (11" X 17"): 1/4" = 1'

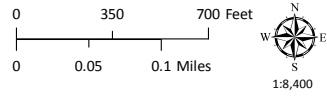






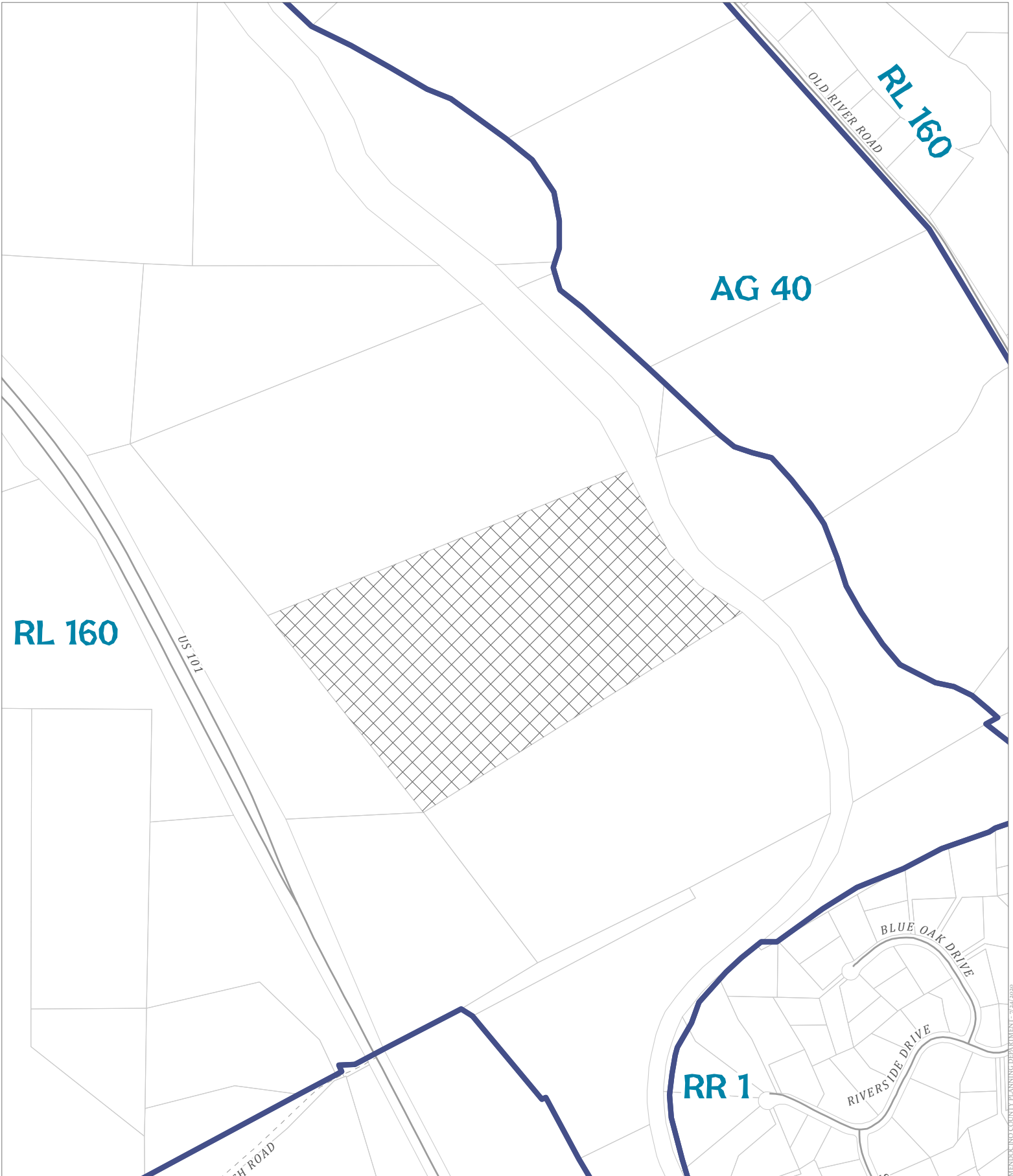
CASE: AP 2020-0028
 OWNER: NELSON, Christopher C, ET AL
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 ADDRESS: 7381 S. Highway 101, Ukiah

-  Zoning Districts
-  Public Roads
-  Assessors Parcels






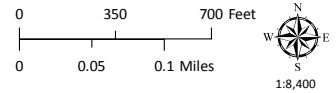
ZONING DISPLAY MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 7/24/2020

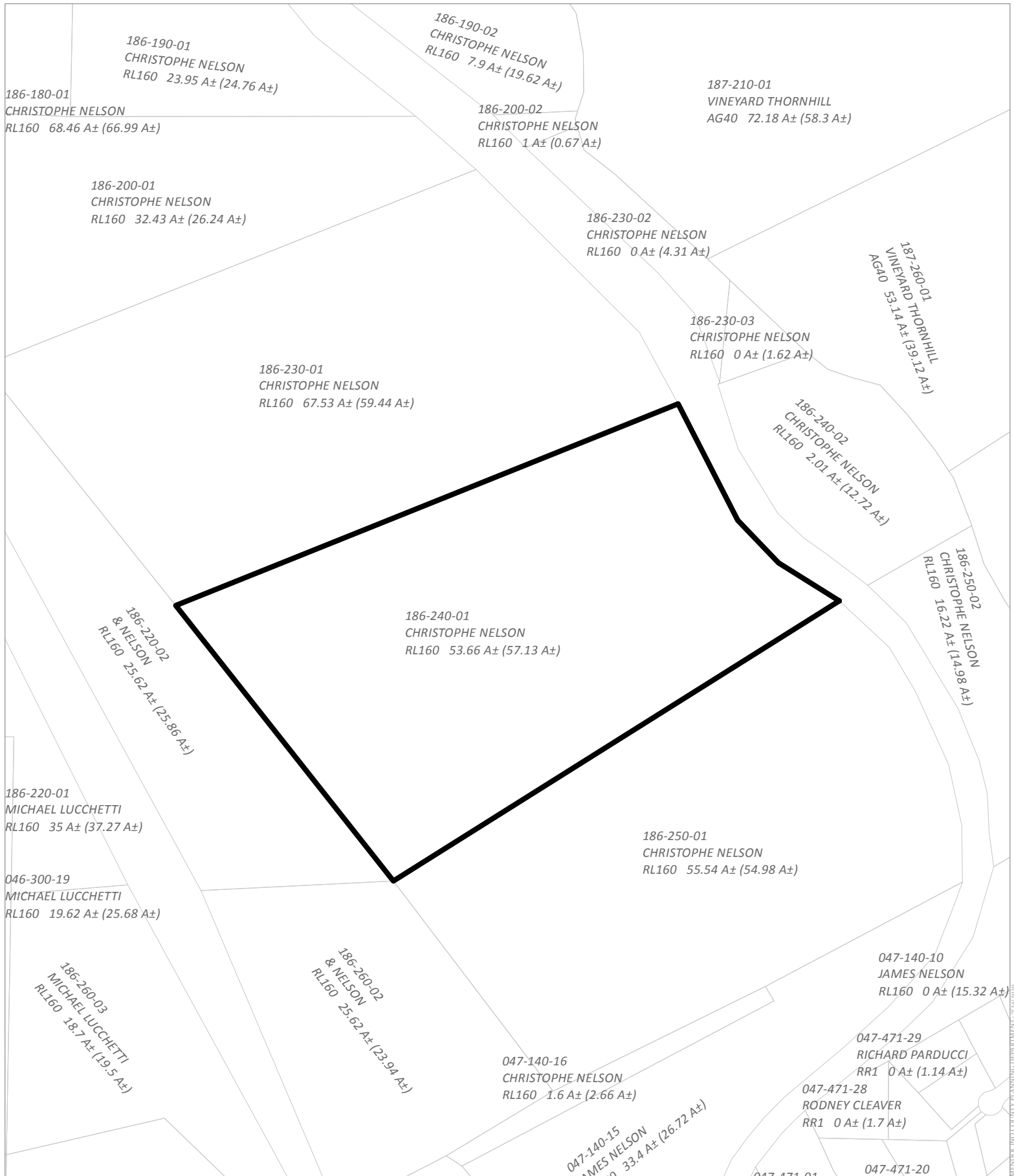


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-  General Plan Classes
-  Public Roads
-  Assessor's Parcels

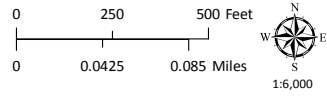


GENERAL PLAN CLASSIFICATIONS



CASE: AP 2020-0028
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 ADDRESS: 7381 S. Highway 101, Ukiah

 Assessor's Parcels



ADJACENT PARCELS

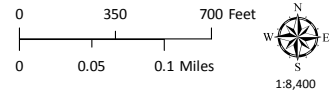
MENDOCINO COUNTY PLANNING DEPARTMENT 7/24/2020

UKIAH VALLEY FIRE PROTECTION DISTRICT

HOPLAND RURAL FIRE PROTECTION DISTRICT

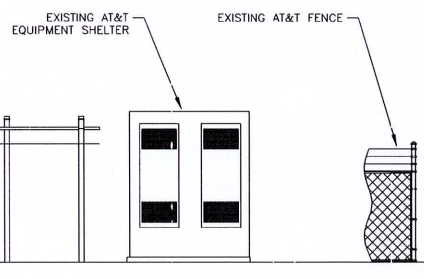
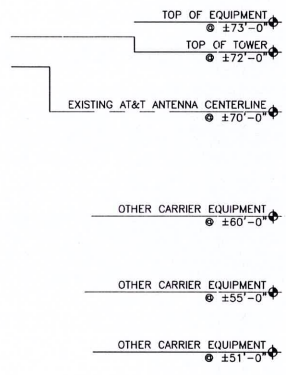
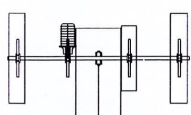
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OWNER: NELSON, Christopher C, ET AL
APN: 186-240-01
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ADDRESS: 7381 S. Highway 101, Ukiah

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

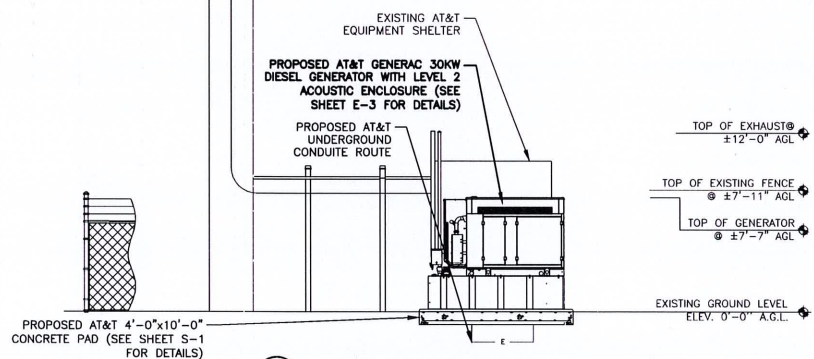
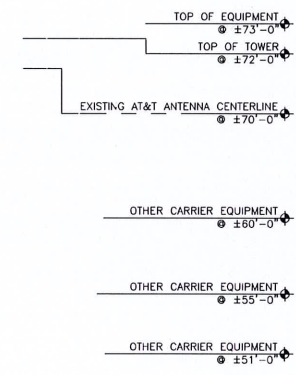
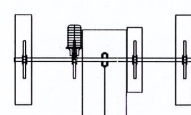


FIRE HAZARD ZONES & RESPONSIBILITY AREAS
STATE RESPONSIBILITY AREA

TRINIDAD COUNTY PLANNING DEPARTMENT 7/27/2020



1 NORTHWEST EXISTING ELEVATION VIEW
 A-3 SCALE (11" X 17"): 1/8" = 1'



1 NORTHWEST PROPOSED ELEVATION VIEW
 A-3 SCALE (11" X 17"): 1/8" = 1'



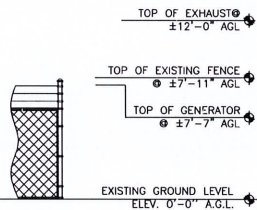
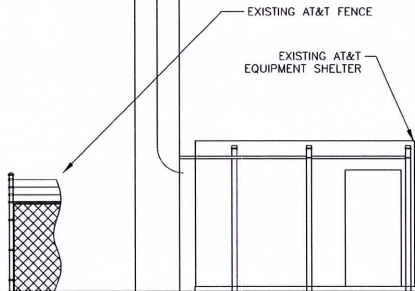
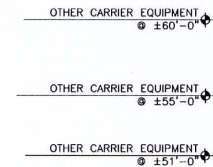
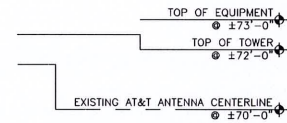
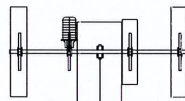
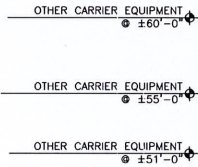
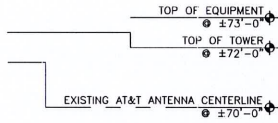
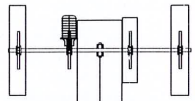
1825 W. WALNUT HILL LANE, SUITE 120
 IRVING, TEXAS 75038
 1-855-869-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
 PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/23/20	90% CD	AG
0	06/10/20	ISSUE FOR CONSTRUCTION	CH
1	06/25/20	ISSUE FOR CONSTRUCTION	CH

SITE INFORMATION
 FA CODE:
 10129806
 SITE NAME:
 CA278 - SANEL
 SITE ADDRESS:
 7381 SOUTH HWY 101
 UKIAH, CA 95482

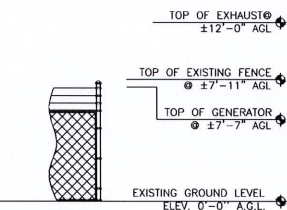
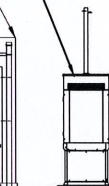
SHEET DESCRIPTION
 ELEVATION VIEWS
 SHEET No.
 A-3



PROPOSED AT&T 4'-0" x 10'-0" CONCRETE PAD (SEE SHEET S-1 FOR DETAILS)

PROPOSED AT&T GENERAC 30KW DIESEL GENERATOR WITH LEVEL 2 ACOUSTIC ENCLOSURE (SEE SHEET E-3 FOR DETAILS)

EXISTING AT&T EQUIPMENT SHELTER



PROPOSED AT&T UNDERGROUND CONDUITE ROUTE

1
A-4 SOUTHEAST EXISTING ELEVATION VIEW
SCALE (11" X 17"): 1/8" = 1'

1
A-4 SOUTHEAST PROPOSED ELEVATION VIEW
SCALE (11" X 17"): 1/8" = 1'



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CA278 - SANEL

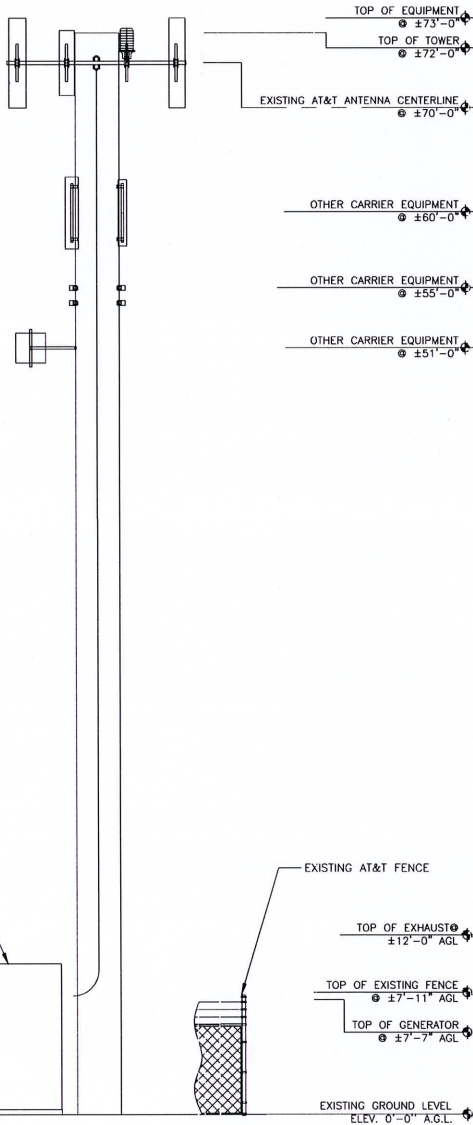
SITE ADDRESS:
7381 SOUTH HWY 101
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SHEET DESCRIPTION

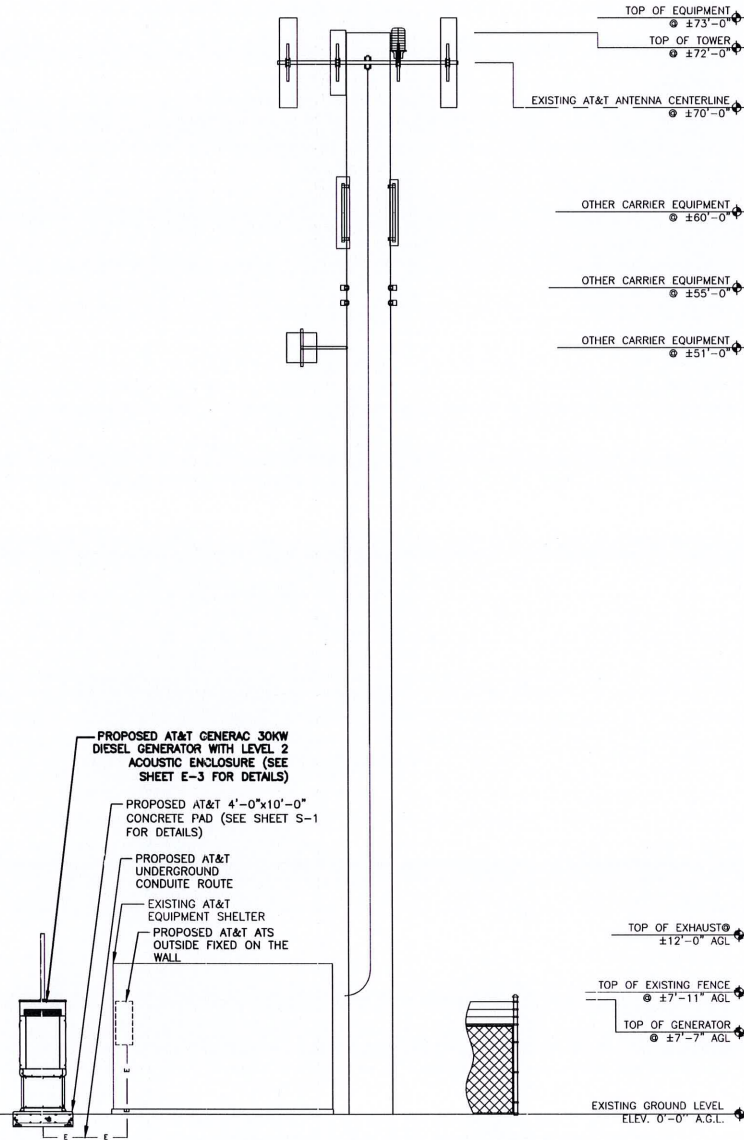
ELEVATION VIEWS

SHEET No.

A-4



1 NORTHWEST EXISTING ELEVATION VIEW
A-5 SCALE (11" X 17"): 1/8" = 1'



1 NORTHWEST PROPOSED ELEVATION VIEW
A-5 SCALE (11" X 17"): 1/8" = 1'



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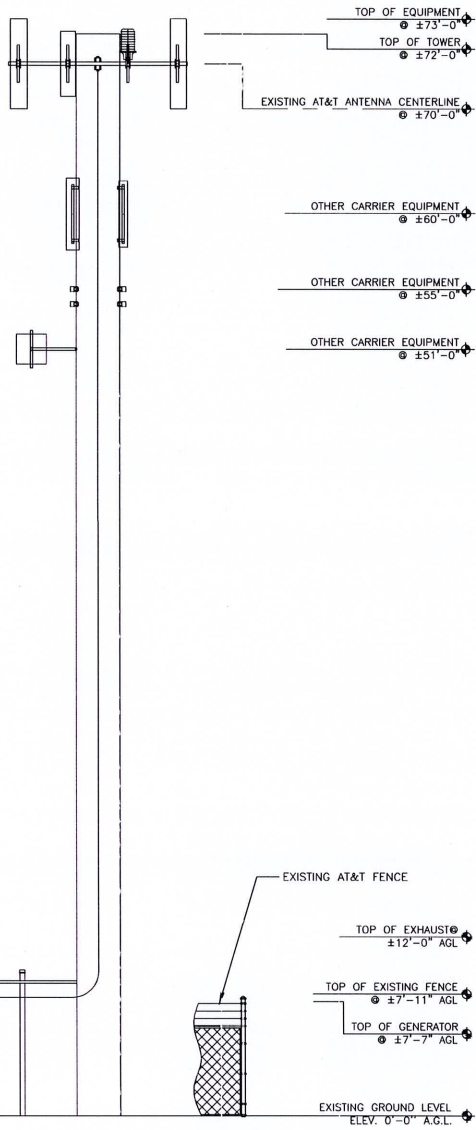
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7381 SOUTH HWY 101
UKIAH, CA 95482

SHEET DESCRIPTION

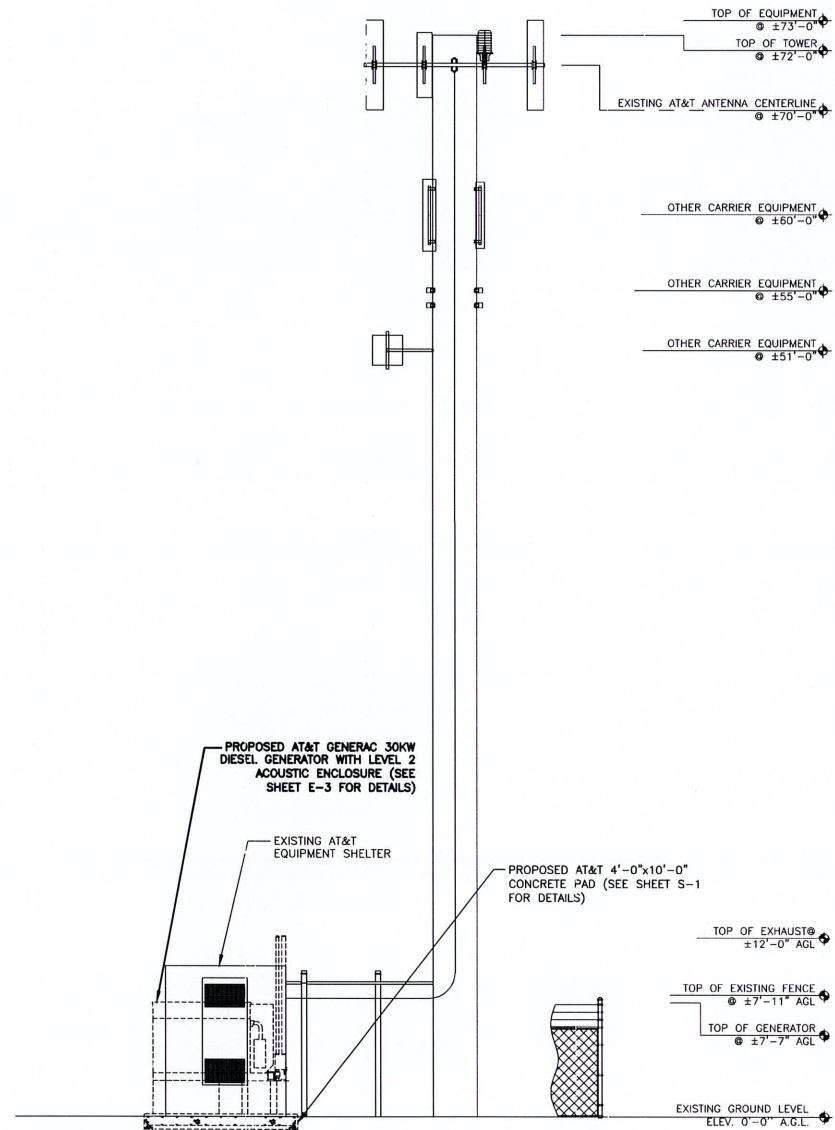
ELEVATION VIEWS

SHEET No.

A-5



1
A-6 **SOUTHEAST EXISTING ELEVATION VIEW**
SCALE (11" X 17"): 1/8" = 1'



1
A-6 **SOUTHEAST PROPOSED ELEVATION VIEW**
SCALE (11" X 17"): 1/8" = 1'



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UKIAH, CA 95482

SHEET DESCRIPTION

ELEVATION VIEWS

SHEET No.

A-6

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

Standby Power Rating
 30 kW, 38 kVA, 60 Hz

Prime Power Rating*
 27 kW, 34 kVA, 60 Hz

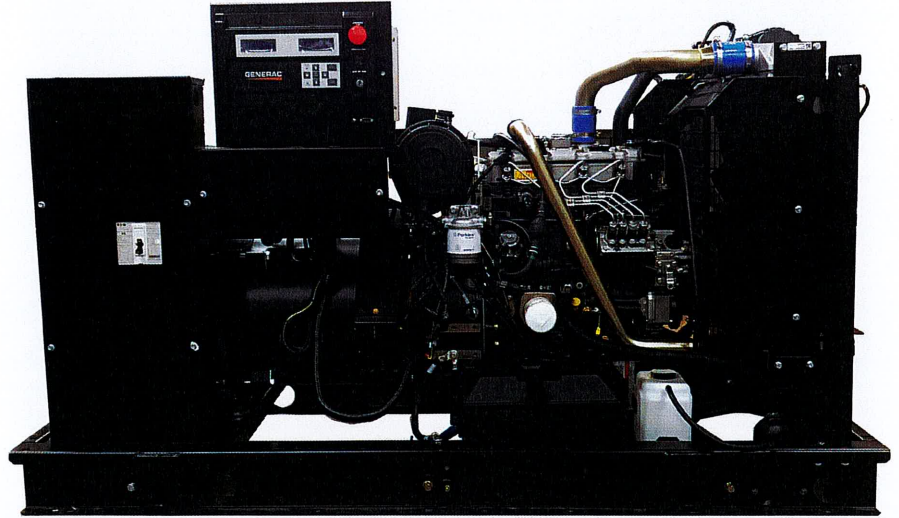


Image used for illustration purposes only



*Assembled in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.



UL2200, UL508, UL489, UL142



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL
POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- Remote Communication - Modem
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12' Vent System
- Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing

FUEL TANKS

- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET



EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET



EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

	277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61		K0035124Y21	46
K0040124Y21	76		K0040124Y21	58
K0050124Y21	98		K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	50%	1.4 (5.2)
	75%	2.0 (7.5)
	100%	2.8 (10.5)
16.6 (63)		

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	scfm (m ³ /hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power scfm (m ³ /min)	88 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	159 (1,096)

EXHAUST

		Standby
Exhaust Flow (Rated Output)	scfm (m ³ /min)	296.6 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	892 (478)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

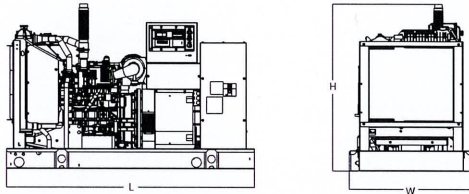
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB
 Prime - See Bulletin 0187510SSB

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

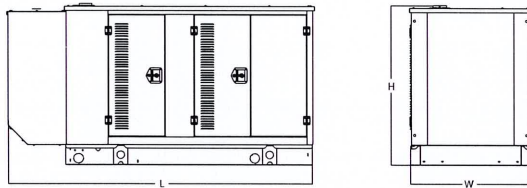


DIMENSIONS AND WEIGHTS*



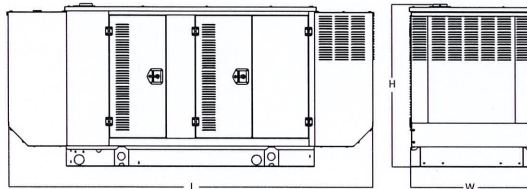
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)



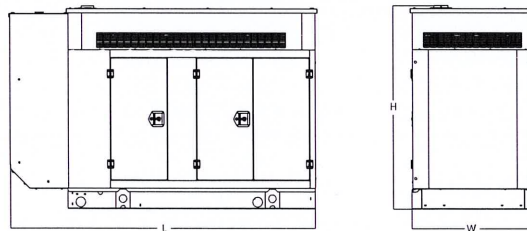
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	372 (170)	241 (110)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)	505 (230)	338 (154)
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		



LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	510 (232)	341 (155)
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.