on behalf of

email: kathryn.leal@epicwireless.net
phone: 530.313.8784

Washoe County
1001 E. Ninth Street, Bldg. A,
Reno, NV 89512
775.328.6100

DATE: August 9th, 2021
ATTN: Planning Division

Great Falls Loop | 0 Edmonton Dr Reno, NV APN: 144-010-23

SUBJECT: AT&T Proposed Telecommunications Facility
RE: AT&T Project Mt Rose Wedge CVL00257

Plan review submittal contents:

PAGE 2 – Development Application
PAGE 3-4 – Special use Permit Application Supplemental Information
PAGE 5 – Director's Modification of Standards Supplemental Information
PAGE 6 – Property Owner Affidavit
PAGE 7-14 – Truckee Meadows Water Authority Minutes of May 21, 2009, Meeting of the Board of Directors
PAGE 15 – Letter of Authorization from Property Owner
PAGE 16-17–Proof of Property Tax Paid

Kathryn Leal
Permit Coordinator
Epic Wireless Group LLC
605 Coolidge Drive, Suite 100, Folsom, CA 95630
kathryn.leal@epicwireless.net
(530) 313-8784

Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information	**Staff Assigned Case No.:**
Project Name: Mt. Rose Wedge	
Project Description: Proposed AT&T 55' tall monopole telecom facility with associated equipment, and back up diesel generator.	
Project Address: Great Falls Loop, Reno, NV 89511	
Project Area (acres or square feet): 530sqft	
Project Location (with point of reference to major cross streets **AND** area locator): Located South of Mt Rose Hwy at TWMA water tank on hillside south of Galena High school.	

Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
144-010-22	2.204		

Indicate any previous Washoe County approvals associated with this application:
Case No.(s).

Applicant Information (attach additional sheets if necessary)

Property Owner:		**Professional Consultant:**	
Name: Truckee Meadows Water Authority		Name: M Square Wireless	
Address: PO BOX 30013		Address: 1387 Calle Avanzado	
Reno, NV	Zip: 89520	San Clemente, CA	Zip: 92673
Phone: 775-834-8071	Fax:	Phone: 949-391-6824	Fax:
Email: hedmunson@tmwa.com		Email:	
Cell:	Other:	Cell:	Other:
Contact Person: Heather Edmunson, Land Agent		Contact Person:	
Applicant/Developer:		**Other Persons to be Contacted:**	
Name: AT&T Mobility c/o Epic Wireless Group		Name:	
Address: 605 Coolidge Drive, Suite 100		Address:	
Folsom, CA	Zip: 95630		Zip:
Phone: 530-313-8784	Fax:	Phone:	Fax:
Email: kathryn.leal@epicwireless.net		Email:	
Cell:	Other:	Cell:	Other:
Contact Person: Kathryn Leal, Site Acquisition Agent		Contact Person:	

For Office Use Only

Date Received:	Initial:	Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

Special Use Permit Application
Supplemental Information

(All required information may be separately attached)

1. What is the project being requested?

   Proposed AT&T monopole telcommuncations facility

2. Provide a site plan with all existing and proposed structures (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.)

   Site plan provided. TWMA's water storage facility is the only structure currently on parcel.

3. What is the intended phasing schedule for the construction and completion of the project?

   Four months, one phase

4. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

   The hillside provides concealment for facility's equipment area while also providing elevation to increase coverage to surrounding community. Co-locating on a parcel with existing utility infrastructure.

5. What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?

   Will provide service in existing coverage gap to local residents. Will increase the network capacity to the surrounding community and the local high school during high-capacity events.

6. What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?

   Dust control will be mitigate during construction to minimize dust impacts to adjacent properties. Utilities will be brought in through access road on adjacent property, which will require restoration after construction.

7. Provide specific information on landscaping, parking, type of signs and lighting, and all other code requirements pertinent to the type of use being purposed. Show and indicate these requirements on submitted drawings with the application.

   Requesting deviation from the landscaping and irrigation requirements of Section 110.324.50 (g) and Section 110.412.40 Civic and Commercial Use Types.

8. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the special use permit request? (If so, please attach a copy.)

❑ Yes	■ No

9. Utilities:

a. Sewer Service	N/a
b. Electrical Service	NV Energy
c. Telephone Service	N/a
d. LPG or Natural Gas Service	N/a
e. Solid Waste Disposal Service	N/a
f. Cable Television Service	N/a
g. Water Service	N/a

For most uses, Washoe County Code, Chapter 110, Article 422, Water and Sewer Resource Requirements, requires the dedication of water rights to Washoe County. Please indicate the type and quantity of water rights you have available should dedication be required.

h. Permit #		acre-feet per year	
i. Certificate #		acre-feet per year	
j. Surface Claim #		acre-feet per year	
k. Other #		acre-feet per year	

Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources).

Installing facility between hillsides to conceal equipment area. Painting tower and ground equipment to match surrounding landscape.

10. Community Services (provided and nearest facility):

a. Fire Station	Truckee Meadows Fire & Rescue, Station 36
b. Health Care Facility	Saint Mary's At Galena
c. Elementary School	Hunsberger Elementary school
d. Middle School	Marce Herz Middle school
e. High School	Galena High school
f. Parks	Whites Creek Park
g. Library	South Valleys Library
h. Citifare Bus Stop	Herz Boulevard and Mt Rose Hwy

Director's Modification of Standards
Supplemental Information

(All required information may be separately attached)

1. What modification or deviation are you requesting? **Be specific.**

   Requesting deviation from the landscaping and irrigation requirements of Section 110.324.50 (g) and Section 110.412.40 Civic and Commercial Use Types.

2. Why is the modification or deviation necessary to the success of the project/development? **Be specific.** Are there any extenuating circumstances or physical conditions on the proposed project/development site?

   No viable water source available to sustain landscaping. Water would need to be trucked in regularly for a few years to refill water storage devices such as a plant diapers. AT&T as a communication provider is not structured to have on-going water/landscape maintenance when municipal water is not readily available.

3. Are you proposing to mitigate the effect of the modification or reduction?

   Site is being designed and painted to blend in with surrounding environment. The ground equipment will be concealed by the topographic contours of the hillside from public right of ways. Natural tone PVC slats are to be placed throughout chain link fence to provide additional ground equipment screening.

4. What section of code are you requesting to modify or deviate? **Be specific.** List the code section and if there are specific requirements for the modification, provide detailed information. For deviation, provide the percentage of the deviation.

   Section 110.324.50 (g) and Section 110.412.40 applies landscaping to new development that requires permitting. Parcel and surrounding parcel is vastly undeveloped. To maintain the natural open space landscape of the surrounding parcel, we would deviate from 100% of landscaping/irrigation requirement.

5. For Minor Deviation request; list what properties/parcels are affected by the deviation? Explain if there will be any impacts to the affected neighboring properties. (At a minimum, affected property owners are those owners of parcels that immediately abut the location of the proposed minor deviation.)

   No affects to neighboring parcels. Ground equipment will not be visible from public right of ways. The surrounding parcel is open space that is primarily sage brush with no trees, providing landscaping to the facility would create a bigger visual impact to the hillside.

Property Owner Affidavit

Applicant Name: AT&T Mobility, c/o Epic Wireless Group

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA)
)
COUNTY OF WASHOE)

I, Mark Forree, General Manager, Truckee Meadows Water Authority
(please print name)

being duly sworn, depose and say that I am the owner* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 144-010-23

Printed Name Mark Forree

Signed Mark Forree

Address 1355 Capital Blvd.

Reno, NV 89520

Subscribed and sworn to before me this 20th day of July, 2021.

Heather Edmunson

Notary Public in and for said county and state

(Notary Stamp)

HEATHER EDMUNSON
Notary Public - State of Nevada
Appointment Recorded in Washoe County
No: 96-2533-2 - Expires November 20, 2021

My commission expires: 11-20-21

*Owner refers to the following: (Please mark appropriate box.)

- ☐ Owner
- ☐ Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- ☐ Power of Attorney (Provide copy of Power of Attorney.)
- ☐ Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- ☒ Property Agent (Provide copy of record document indicating authority to sign.)
- ☐ Letter from Government Agency with Stewardship

TRUCKEE MEADOWS WATER AUTHORITY
MINUTES OF THE MAY 21, 2009
MEETING OF THE BOARD OF DIRECTORS

The Board of Directors met on Thursday, May 21, 2009 at Sparks Legislative Council Chambers, 745 Fourth St., Sparks, Nevada. Chairman Carrigan called the meeting to order at 8:03 a.m.

1. ROLL CALL

Members Present: Dave Aiazzi*, Mike Carrigan, Bob Cashell*, Mike Cate, John Breternitz as alternate for Bob Larkin, Geno Martini and Tom Young.

2. PLEDGE OF ALLEGIANCE

Led by Member Martini

3. PUBLIC COMMENT

There was no public comment.

4. APPROVAL OF THE AGENDA

Upon motion by Member Martini, second by Member Cate, which motion duly carried by unanimous consent of the members present, the Board approved the agenda.

5. APPROVAL OF THE APRIL 15, 2009 MINUTES

Upon motion by Member Martini, second by Member Young, which motion duly carried by unanimous consent of the members present, the Board approved the April 15, 2009 minutes.

Chairman Carrigan opened the public hearing.

6. PUBLIC COMMENT ON ANY OF THE THREE ISSUES

There was no public comment.

7. DISCUSSION AND REQUEST FOR ADOPTION OF RESOLUTION #144: A RESOLUTION TO ADOPT THE FINAL BUDGET FOR FISCAL YEAR 2009-2010 AND THE FIVE-YEAR CAPITAL IMPROVEMENT PLAN

Jeff Tissier presented the final budget and addressed the changes made since the tentative budget was presented in February 2009. Operating Revenues were increased due to the Board decision to postpone the January 2010 conversion of flat rate customers to metered billing to June 2010 or later. Operating Expenses were reduced to reflect the negotiations with the bargaining unit which resulted in eliminating incentive pay and keeping wages flat in FY2010. Employee

Benefits decreased by over $.3 million dollars as TMWA funded the Voluntary Employee Benefit Association and TMWA will use the long term rate of return that is provided by the Retirement Benefit Investment Fund (RBIF); however, the savings garnered from that will be offset by increased Public Employees Retirement System (PERS) contributions. A decrease in Supplies Expense of $.3 million dollars due to a 25 per cent contribution reduction to the Truckee River Fund which was offset by increased State Engineer fees for filing water permits as mandated by AB 480. Capital spending was increased $1.7 million because of the Board's approval to move forward with engineering on the groundwater treatment plant in Sparks and a carry-over project from FY2009 – the Valley Road Main Replacement. The outstanding debt component is still over $.5 million and there is an outstanding $68 million short-term note with a current weighted average interest rate of 0.5 per cent. Unrestricted cash is expected to be $68 million at the beginning of the fiscal year 2010 which will be a critical element to maintaining TMWA's Letter of Credit and current credit ratings with its rating agencies.

Upon motion by Member Cate, second by Member Martini, which passed by unanimous consent of the members present, the Board adopted Resolution #144: a Resolution to adopt the final budget for Fiscal Year 2009-2010 and the Five-year Capital Improvement Plan

8. SECOND/FINAL READING, DISCUSSION AND REQUEST FOR ADOPTION OF RESOLUTION #145: A RESOLUTION TO ADOPT REVISIONS TO TMWA RULES 1 THROUGH 6

John Erwin presented the revisions to TMWA Rules 1 through 6, which when adopted will streamline language, make content relevant to today's operating environment, and implement applicable cost recovery mechanisms. No comments were received since the amendments to the rules were posted on April 9, 2009.

Upon motion by Member Martini, second by Member Young, which passed by unanimous consent of the members present, the Board adopted the Board adopted Resolution #145: A Resolution to adopt revisions to TMWA Rules 1 through 6

9. SECOND/FINAL READING, DISCUSSION AND REQUEST FOR ADOPTION OF RESOLUTION #146: A RESOLUTION TO ADOPT REVISIONS TO TMWA CUSTOMER RATE SCHEDULES TO BE EFFECTIVE THE FIRST BILLING CYCLE IN JUNE 2009

John Erwin presented the rate changes as calculated by customer class and reviewed the edits to the various rate schedules made since the April 15, 2009 meeting. He reported the Standing Advisory Committee has held numerous workshops and meetings to review the details of the cost of service study and unanimously endorsed staff recommendations, supporting also the Board's position at its April 2009 meeting to look to increase rates by 4.5 per cent overall effective the first billing cycle in June 2009 and also increase rates in June 2010 by 4.4 per cent overall subject to a Board and SAC review in early 2010. The SAC also concurred with staff's recommendation and the Board's finding at the April 2009 Board meeting that conversion of flat

rate customers to metered billing be delayed from January 2010 and recommended the conversion be made no earlier than June 2010.

Upon motion by Member Martini, second by Alternate Breternitz, which passed by unanimous consent of the members present, the Board adopted Resolution #146: A Resolution to adopt revisions to TMWA Customer Rate Schedules to be effective the first billing cycle in June 2009.

Chairman Carrigan closed the public hearing

10. DISCUSSION AND POSSIBLE DIRECTION TO STAFF REGARDING LEGISLATIVE ACTIVITIES

Steve Walker, TMWA Contract Lobbyist reported on the following bills:

AB119 Requires the Truckee Meadows Regional Plan to include policies that are based on identified and sustainable water resources within Washoe County. This bill has been sent to the Governor for signature.

AB147 Requires local governments to grant preference to local bidders bidding on certain contracts for goods or services. Modifications specific to contracts of $50,000 have been made and the bill will now go to the Senate.

AB416 Requiring the State Engineer or a person designed by him to conduct an inventory of a basin before approving an application for an interbasin transfer of groundwater. This bill has passed through the Assembly and will now go to the Senate.

AB442 Prohibiting local governments from expending money for lobbying activities. This bill is dead.

AB480 Makes various changes relating to fees collected the State Engineer. This bill has been sent to the Governor for signature. These fee increases have been incorporated into the TMWA budget.

SB311 Requiring the fluoridation of water provided by certain public water systems and water authorities of certain counties. Mike Pagni, Legal Counsel, reported that TMWA had proposed an amendment to this bill to add a vote of the people prior to implementing fluoridation. Mr. Pagni stated it has been the policy of the State of Nevada for the past 42 years that the citizens in every county have the right to vote on whether to fluoridate their water, but the bill would deny these rights to Washoe County citizens. TMWA asked that the same voting rights be granted to the constituents in Washoe County, and TMWA also proposed a technical cleanup on the legal issues related to delivery of water to wholesale customers. As written, the bill would require that all water delivered by TMWA be fluoridated, but at the same time would prohibit TMWA's wholesale customers from delivering TMWA fluoridated water to their customers. This created a Catch-22 situation where TMWA is mandated to fluoridate the water but the wholesale customers are prohibited from delivering fluoridated water. Mr. Pagni noted that some voting rights were added through an amendment by Senate Finance Committee, but the timing of the

vote proposed was problematic. If passed as written, the citizens would not have a right to vote on whether fluoridation should be implemented until four months after fluoridation was already implemented. As a result, the cost to implement fluoridation would be incurred before the people had a right to vote to decide whether or not they wanted to incur those costs, and substantial portions of these costs would not be able to be reimbursed. Mr. Pagni said that both he and Mr. Walker were informing legislators that millions of dollars of stranded costs would be borne by TMWA customers even if they decide to vote against this because of the timing issues with the vote. Mr. Pagni asked for direction from the Board.

Chairman Carrigan stated that the way the legislature has structured the timing of the vote, the ballot question is worded in an unusual way and the result would be that a "NO" vote is actually voting yes for fluoride and a "YES" vote is actually voting no for fluoride. He said the amendment TMWA had proposed is straightforward and clear – should the water be fluoridated – Yes or No. It is important that if the people are going to vote, they understand what they are voting on. Chairman Carrigan directed Mr. Pagni to take a neutral position if the two TMWA proposed amendments are approved with a November vote of the people and a clearly stated ballot question. Vice Chairman Aiazzi stated if this legislation passes, the Legislature should be challenged as this is very specific legislation.

Member Martini asked about the cost to remove fluoride from the water. Mr. Pagni replied that he understands the cost is several multiples of the cost to fluoridate water; however, no one other than TMWA has testified on this bill as yet. Member Martini stated there are implications with Truckee Meadows Water Reclamation Facility (TMWRF) and that TMWRF had provided information to the Senate Finance Committee about the potential impacts which could be significant if the fluoride was required to be removed. Vice Chairman Aiazzi stated that that if SB 311 passes, TMWA will require all its wholesale customers pay the cost to remove fluoride from the water: the cost would not be borne by TMWA customers; or TMWA would need to discontinue delivery of water to wholesale customers. TMWA will pass on the full cost to the wholesale customers to remove fluoride. Mr. Pagni also clarified that the costs of a vote by the people will be borne by Washoe County as it will be an advisory question on the county ballot.

Mr. Walker requested the Board discontinue meetings of the Legislative Subcommittee as there is no more legislation to be discussed.

Upon motion by Vice Chairman Aiazzi, second by Member Martini, which motion duly carried by unanimous consent of the members present, the Board suspended meetings of the Legislative Subcommittee.

Upon motion by Member Martini, second by Member Cashell, which motion duly carried by a vote of 6 to 1 with Vice Chairman Aiazzi dissenting, the Board opposed SB 311 with its current language; but voted to take a neutral position if the Legislature accepts the two amendments proposed by TMWA, which are 1) a vote by the people of Washoe County is taken prior to implementation of fluoride with clear language used for the ballot question and 2) a clarification on the legal

aspects of the wholesale issue.

11. DISCUSSION AND POSSIBLE BOARD APPROVAL OF THE RENEWAL OF THE INTERLOCAL AGREEMENT FOR ADMINISTRATIVE SERVICES TO THE WESTERN REGIONAL WATER COMMISSION (WRWC).

Mark Foree stated that TMWA has been providing these services to the WRWC for the past year and proposes to continue providing services through 2011. Services include: posting agendas, preparing board packets, insuring minutes are recorded, etc. Services are provided at no cost to the WRWC except as specifically provided in the proposed agreement.

Upon motion by Vice Chairman Aiazzi, second by Member Cashell, which motion duly carried by unanimous consent of the members present, the Board approved the renewal of the interlocal agreement for administrative services to the WRWC.

12. DISCUSSION AND ACTION ON THE TMWA GENERAL MANAGER POSITION

Chairman Carrigan reported that it was the unanimous decision of the General Manager Search Committee to appoint Mark Foree as General Manager. The Board unanimously voiced its opinion that Mr. Foree has done a wonderful job as Interim General Manager. He has dealt successfully with issues like damage to the system by earthquakes, labor negotiations and a rate increase, and he works well with the Board and employees. The Board received many calls from employees and the community voicing their support for the appointment of Mr. Foree as General Manager with no negative comments. A discussion regarding the term of the contract ensued with the conclusion that a three year contract term was preferred by the Board. The Board requested that Chairman Carrigan negotiate the contract with Mr. Foree and bring it back to the Board for ratification. Mr. Foree thanked the Board for the vote of confidence stating he thought the nine month trial period was good for both the Board and him. He thanked Lori Williams for recommending him for the interim position and thanked the management team, the employees and the community for their support.

Upon motion by Member Cashell, second by Vice Chairman Aiazzi, which motion duly carried by unanimous consent of the members present, the Board appointed Mark Foree as General Manager and gave permission for the Human Resources Manager, an attorney and Chairman Carrigan to negotiate a three-year contract with Mr. Foree.

13. REVIEW AND POSSIBLE BOARD APPROVAL OF MEMORANDUM OF UNDERSTANDING FOR THE DEVELOPMENT AND MAINTENANCE OF A TRUCKEE RIVER COORDINATED MONITORING PROGRAM AND REQUEST FOR AUTHORIZATION FOR GENERAL MANAGER TO EXECUTE THE MOU

Paul Miller reported that the Nevada Department of Environmental Protection (NDEP) took the lead in facilitating meetings among the multiple agencies interested in the health and quality of

the Truckee River. This Memorandum of Understanding is of benefit to TMWA because it is vital for TMWA to watch and monitor the health of the Truckee River.

Upon motion by Vice Chairman Aiazzi, second by Member Martini, which motion duly carried by unanimous consent of the members present, the Board approved the Memorandum of Understanding for the development and maintenance of a Truckee River coordinated monitoring program and authorized the General Manager to execute the MOU.

14. DISCUSSION AND ACTION REGARDING PARTY WATER SERVICE ISSUES AND IMPLEMENTING SEPARATE BILLING AND/OR SERVICE CONNECTIONS FOR METERED SERVICE AT YORKSHIRE MANOR I AND II

Kim Mazeres presented this item. TMWA is nearing the finish of installing meters on all residences and dealing with the difficult metering situations. Yorkshire Manor (YM) presents a complicated and complex metering problem. YM has 268 units that are located in 67 buildings across two different planned unit developments in Sparks (YM1 and YM2, built in the early 1970's with a single service line feeding each of those buildings). A meter was placed on each of those service lines and YM was asked how they wanted to be billed. Ms. Mazeres discussed the various options as presented in the staff report ranging from grandfathering YM in on the flat rate to spending hundreds of thousands of dollars both on TMWA's part and the resident's part to meter each of those units individually. She also stated that TMWA can separate and handle each planned unit development differently.

The situation at YM is an historical legacy problem that exists on a handful of condominium complexes and planned unit developments in TMWA's service area. These are not single family homes – this is a different type of service and type of unit - there are only a handful of properties that have these characteristics within our service area.

After working through all the different options with YM, even though it would save money to be billed on the metered rate, YM1 does not want to have the bills in the association's name and prefers to be left on the flat rate.

YM2 did suggest that with a change to their by laws, YM2 could take on being the recipient of these water bills, pay the metered rate and save approximately $87 a month a building. However, there is a cost associated with changing the by-laws, and they have requested that TMWA pay for the change to their by-laws. Ms. Mazeres commented that this could set a precedent and recommended the Board not comply with their request and set this precedent. Ms. Mazeres also suggested that a rule change be made so when a unit becomes vacant, the property manager would inform TMWA who is the property owner so that water bill can automatically be put in that property owner's name because, at that point, even if nobody is living there, the property owner has the benefit of water service. With this rule change for this rate class, the only risk for TMWA would be if somebody defaults on the water bill.

Vice Chairman Aiazzi said he did not think it would be out of bounds for TMWA to pay for the by-laws change as TMWA would save money by not installing individual meters. He also

stated that TMWA make a one-time offer to pay for the by-laws change. If not accepted, the associations will remain on the flat rate and the option of installing meters at TMWA expense will be terminated. He also warned the customers that it is highly probable that in the future, the flat rate will accelerate at a faster rate than will the metered rate.

Joanne Parker, resident of YM1, commented that the irrigation and swimming pool water at YM1 is metered so she didn't see the need to constantly increase rates on the small amount of water used in their homes. She also stated that the manager of YM1 did not want to assume the responsibility of collecting money that TMWA should be collecting and that the residents would have to pay the manager more money to do more duties.

Tammy Woodick, president of YM2, stated YM2 was willing to accept the responsibility and pass on the savings to their homeowners through fees. As for people not paying, the association might have more control over that than would TMWA. In order to do this, a change in their by-laws must be made and the association does not have the reserve funds to pay for this change. She asked TMWA to share in these costs. She said that as the president of YM2, she was willing to say the association will take on that responsibility with a little bit of help from TMWA to offset some of the costs of changing the by-laws.

Mike Pagni, TMWA Legal Counsel, expressed his concern about setting a precedent of using TMWA funds to help resolve this type of issue.

The Board discussed the risks and benefits associated with having TMWA offset the cost of changing an association's by-laws. It was determined that TMWA could offer to pay the cost up to a maximum of $10,000 and then recoup the money, with interest, over a period not to exceed three years. The money would not come out of rate payer money but would come out of the meter retrofit fund because it is in lieu of putting in meters.

Vice Chairman Aiazzi asked about installing meters in the future. Ms. Mazeres replied that meters are already installed on the service lines for each building and again said it was staff's recommendation to leave them on the flat rate but also leave them the ability to change to the metered rate by building anytime they might choose; otherwise, leave them on the flat rate and change our rates and rules so that we can make that happen.

The Board asked Ms. Woodick if YM2 would be willing to participate given the discussion today. She said she would need to discuss this with the YM2 association board but thought it would be a possibility.

Vice Chairman Aiazzi made a motion on Yorkshire Manor II that TMWA help them with the legal costs related to changes to their by-laws but recoup that cost over a three-year period. Mayor Martini seconded the motion.

Mr. Pagni asked for a clarification of the motion. Would that motion be conditional on getting the homeowner association members to vote to agree before we advance them any money that they would reimburse us. Vice Chairman Aiazzi said he thought about that but didn't feel it was necessary because YM2 is going to reimburse TMWA the cost whether they pass it or not under this motion. TMWA will raise their rates to recoup whatever money it costs even if they say no. Chairman Carrigan asked Vice Chairman Aiazzi if there would be a cap to the costs or if that

was unnecessary because the motion reads TMWA will recoup all costs. Vice Chairman said he would put a cap of $10,000 to the costs TMWA would loan the association.

Upon motion by Vice Chairman Aiazzi, second by Member Martini, which motion carried by a vote of 5 to 2 with Chairman Carrigan and Alternate Breternitz dissenting, the Board agreed that TMWA would advance an amount not to exceed $10,000 to help Yorkshire Manor II change their bylaws and recoup that cost over a three-year period.

Alternate Breternitz made a motion for YM1 to stay on the flat rate; Vice Chairman Aiazzi seconded the motion. Vice Chairman Aiazzi warned the homeowner association that the flat rate will continue to increase. He then asked if a time limit should be put on requests to change to the metered rate. As this association and the others with complex issues are meter-retrofitted, should TMWA begin to inform people of their options and set time limits to make billing choices? Ms. Mazeres said that was absolutely possible.

Upon motion by Alternate Breternitz, second by Vice Chairman Aiazzi, which motion carried unanimously, the Board agreed to leave Yorkshire Manor I on the flat-rate.

15. GENERAL MANAGER'S REPORT

Mark Foree informed the Board there would be no meeting in June 2009.

16. PUBLIC COMMENT

There was no public comment.

17. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Chairman Carrigan requested a special meeting with Legal Counsel if SB 311 passes.

18. ADJOURNMENT

With no further business to discuss, Chairman Carrigan adjourned the meeting at 9:14 a.m.

Approved by the TMWA Board of Directors in session on July 15, 2009.

Respectfully submitted,

_____

Corinne Cassell, Recording Secretary

*Dave Aiazzi and Bob Cashell: present for items 10 through 18.

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

on behalf of

at&t

Letter of Authorization

Permission for Filing of Zoning/Building Permit Applications

To: Washoe County Community Services

Re: AT&T Telecom Facility # CCL00476 Mt Rose Wedge | Edmonton Drive-Steamboat Tank: STMGID Tank #7 | Great Falls Loop, Reno, NV 89511; APN 144-010-23

The **Truckee Meadows Water Authority**, the owner(s) of APN 144-010-23, located at Great Falls Loop, Reno, NV 89511. does hereby authorize **Epic Wireless Group LLC** to agent on my/our behalf for the purpose of performing all and every act that is required, necessary or appropriate to prepare, sign, submit, file and present on my/our behalf building, permitting, zoning and/or land use applications to obtain land use changes, special exceptions, zoning variances, zoning permits, conditional use permits, special use permits, administrative permits, construction permits, operation permits, building permits, and other governmental approvals or permits related to maintaining and operating the AT&T telecommunications facility at the above described real property.

Mark Foree
(Signature)

MARK Foree
(Print Name)

General Manager
(Title/Position)

7/20/21
(Date)

(Signature)

(Print Name)

(Title/Position)

(Date)

605 Coolidge Drive Suite 100
Folsom, CA. 95630
Fax (916) 781-5927

Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:	**Mt Rose Wedge**	**Site Structure Type:**	**Monopole**
Address:	**Great Falls Loop**	**Latitude:**	**39.379259**
	Reno, NV 89511	**Longitude:**	**-119.776573**
Report Date:	**July 29, 2021**	**Project:**	**New Build**

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the Mt Rose Wedge installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopole and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, David C. Cotton, Jr., am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

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Table 1: FCC Limits

Frequency (MHz)	*Limits for General Population/ Uncontrolled Exposure*		*Limits for Occupational/ Controlled Exposure*	
	Power Density (mW/cm^2)	Averaging Time (minutes)	Power Density (mW/cm^2)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \ (\mathrm{mW/cm^2})$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \ (\mathrm{mW/cm^2})$$

where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

Analysis

AT&T Mobility proposes the following installation at this location:

- INSTALL (8) NEW AT&T 6'-0'' PANEL ANTENNAS

The antennas will be mounted on a 55-foot Monopole with centerlines 55 & 44 feet above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.

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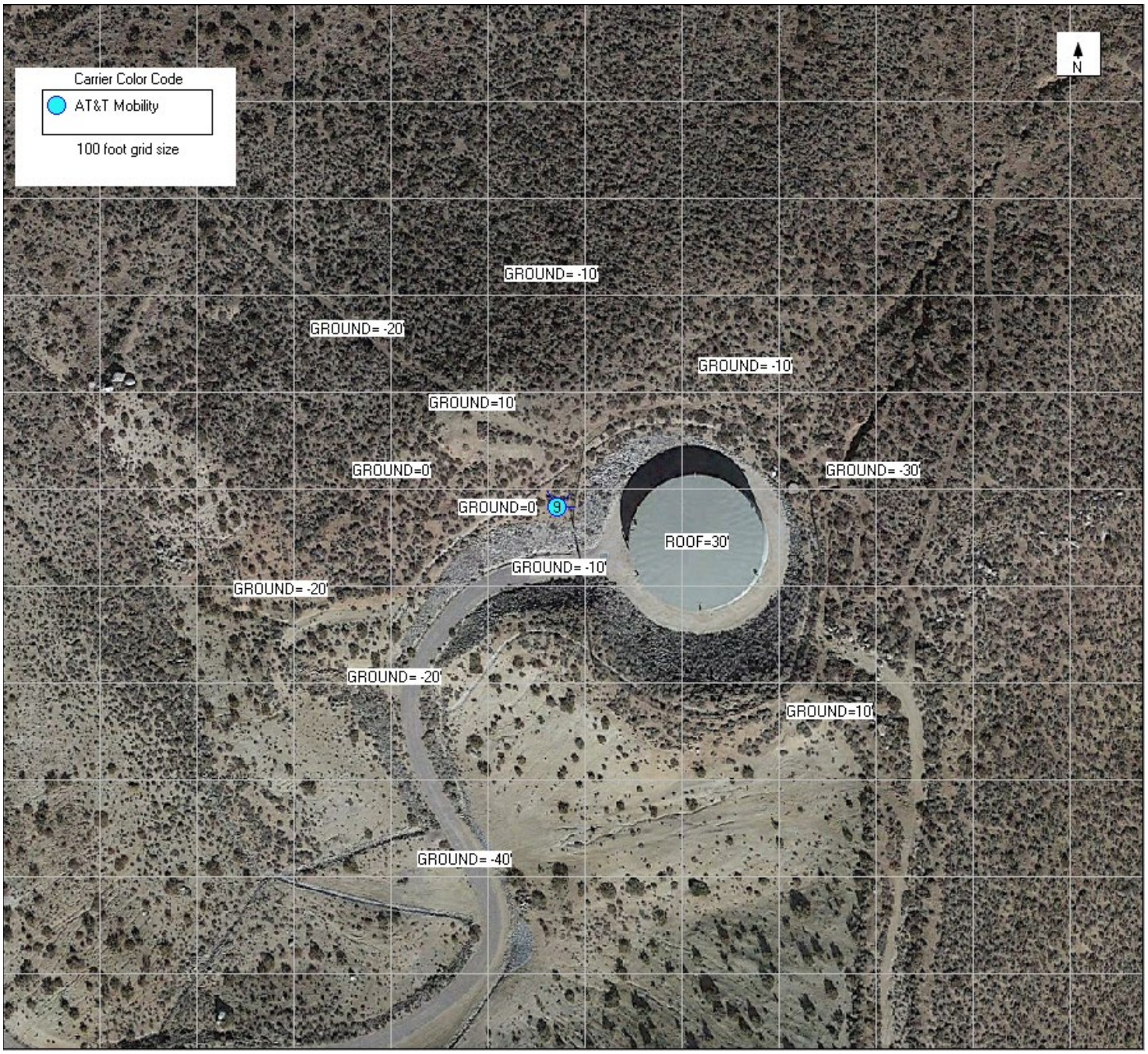

Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 7.2839% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 1.8546% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

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Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

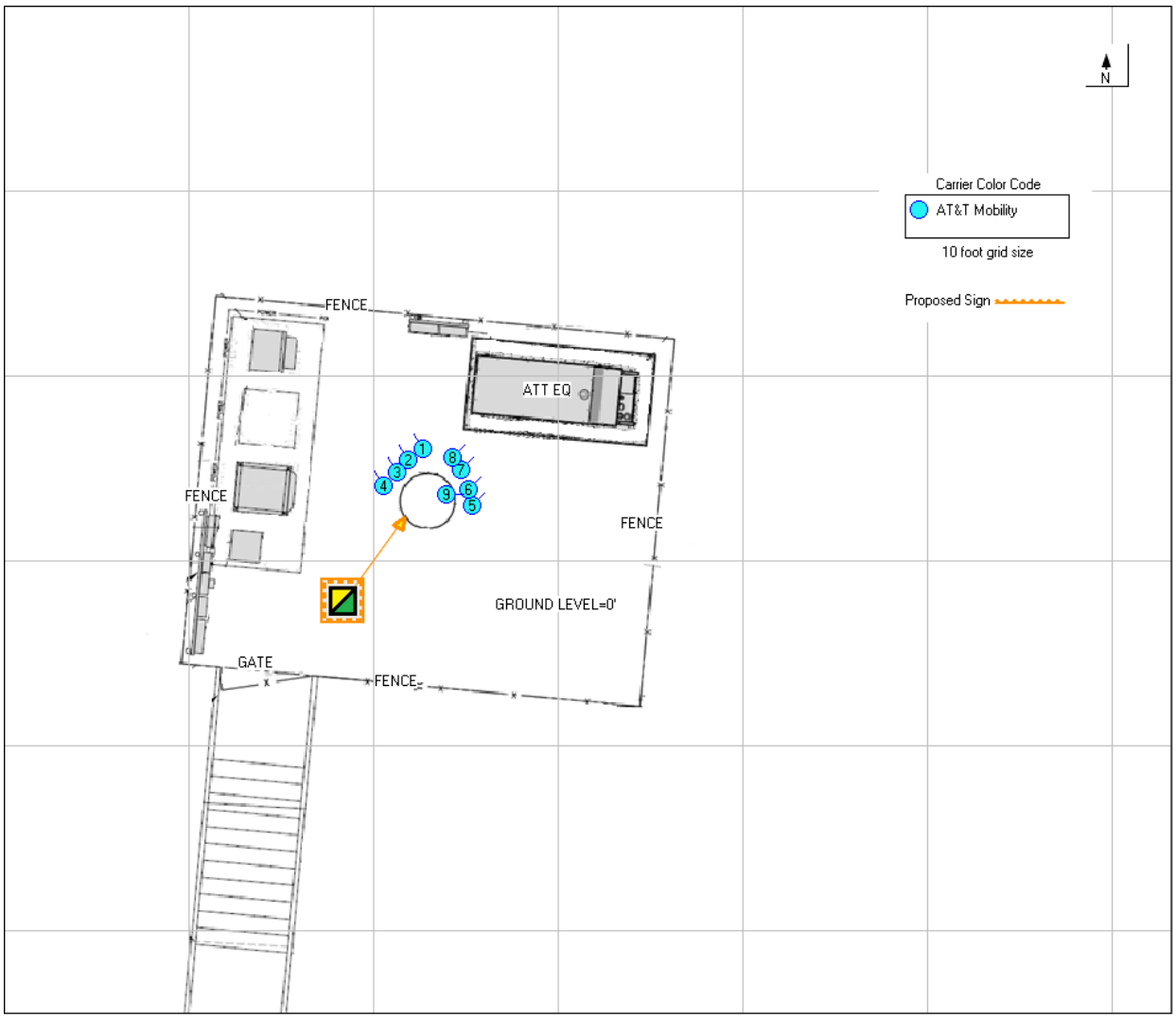

Figure 2: Mitigation Recommendations

Caution 2B

Caution 2B sign required at the base of the antenna at the access location

Appendix A: Operating Parameters Considered in this Analysis

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	700	327	0	35	6	40	2	1.25	14.15	1560	2559	55
1	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	700	327	0	34	6	40	2	1.25	14.55	1710	2806	55
1	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	850	327	0	32	6	40	2	1.25	14.95	1875	3077	55
1	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	850	327	0	32	6	40	2	1.25	15.45	2104	3452	55
1	AT&T	CCI	BSA-M65R-BUU-H6 00DT LEFT	1900	327	0	28	6	40	4	1.25	16.15	4944	8112	55
1	AT&T	CCI	BSA-M65R-BUU-H6 00DT RIGHT	1900	327	0	31	6	40	4	1.25	15.55	4306	7065	55
2	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	700	327	0	35	6	40	2	1.25	14.15	1560	2559	55
2	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	700	327	0	34	6	40	2	1.25	14.55	1710	2806	55
2	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	850	327	0	32	6	40	2	1.25	14.95	1875	3077	55
2	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	850	327	0	32	6	40	2	1.25	15.45	2104	3452	55
2	AT&T	CCI	BSA-M65R-BUU-H6 00DT LEFT	2100	327	0	26	6	40	4	1.25	16.45	5298	8692	55
2	AT&T	CCI	BSA-M65R-BUU-H6 00DT RIGHT	2100	327	0	27	6	40	4	1.25	16.55	5422	8894	55
3	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	700	327	0	35	6	40	2	1.25	14.15	1560	2559	55
3	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	700	327	0	34	6	40	2	1.25	14.55	1710	2806	55
3	AT&T	CCI	BSA-M65R-BUU-H6 00DT LEFT	1900	327	0	28	6	40	4	1.25	16.15	4944	8112	55
3	AT&T	CCI	BSA-M65R-BUU-H6 00DT RIGHT	1900	327	0	31	6	40	4	1.25	15.55	4306	7065	55
4	AT&T	CCI	BSA-M65R-BUU-H6 02DT LEFT	700	327	0	35	6	40	2	1.25	14.15	1560	2559	55
4	AT&T	CCI	BSA-M65R-BUU-H6 02DT RIGHT	700	327	0	34	6	40	2	1.25	14.55	1710	2806	55
4	AT&T	CCI	BSA-M65R-BUU-H6 00DT LEFT	2300	327	0	25	6	25	4	1.25	16.05	3020	4955	55
4	AT&T	CCI	BSA-M65R-BUU-H6 00DT RIGHT	2300	327	0	25	6	25	4	1.25	16.35	3236	5309	55
5	AT&T	CCI	HPA-33R-BUU-H6-05DT	700	45	0	38	6	40	2	1.25	14.35	1633	2680	55
5	AT&T	CCI	HPA-33R-BUU-H6-05DT	850	45	0	34	6	40	2	1.25	15.75	2255	3699	55
5	AT&T	CCI	HPA-33R-BUU-H6-05DT	1900	45	0	32	6	40	4	1.25	16.85	5809	9531	55
6	AT&T	CCI	HPA-33R-BUU-H6-05DT	700	45	0	38	6	40	2	1.25	14.35	1633	2680	55
6	AT&T	CCI	HPA-33R-BUU-H6-05DT	850	45	0	34	6	40	2	1.25	15.75	2255	3699	55
6	AT&T	CCI	HPA-33R-BUU-H6-05DT	2100	45	0	30	6	40	4	1.25	17.55	6825	11197	55

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Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
7	AT&T	CCI	HPA-33R-BUU-H6-05DT	700	45	0	38	6	40	2	1.25	14.35	1633	2680	55
7	AT&T	CCI	HPA-33R-BUU-H6-05DT	1900	45	0	32	6	40	4	1.25	16.85	5809	9531	55
8	AT&T	CCI	HPA-33R-BUU-H6-05DT	700	45	0	38	6	40	2	1.25	14.35	1633	2680	55
8	AT&T	CCI	HPA-33R-BUU-H6-00DT	2300	45	0	28	6	25	4	1.25	17.95	4677	7674	55
9	AT&T	GENERIC	MICROWAVE 6FT	6000	90	0	1.5	6	0.2	1	0	38.7	1483	2432	44

Notes: Table depicts recommended operating parameters for AT&T Mobility proposed operations.

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AT&T Wireless

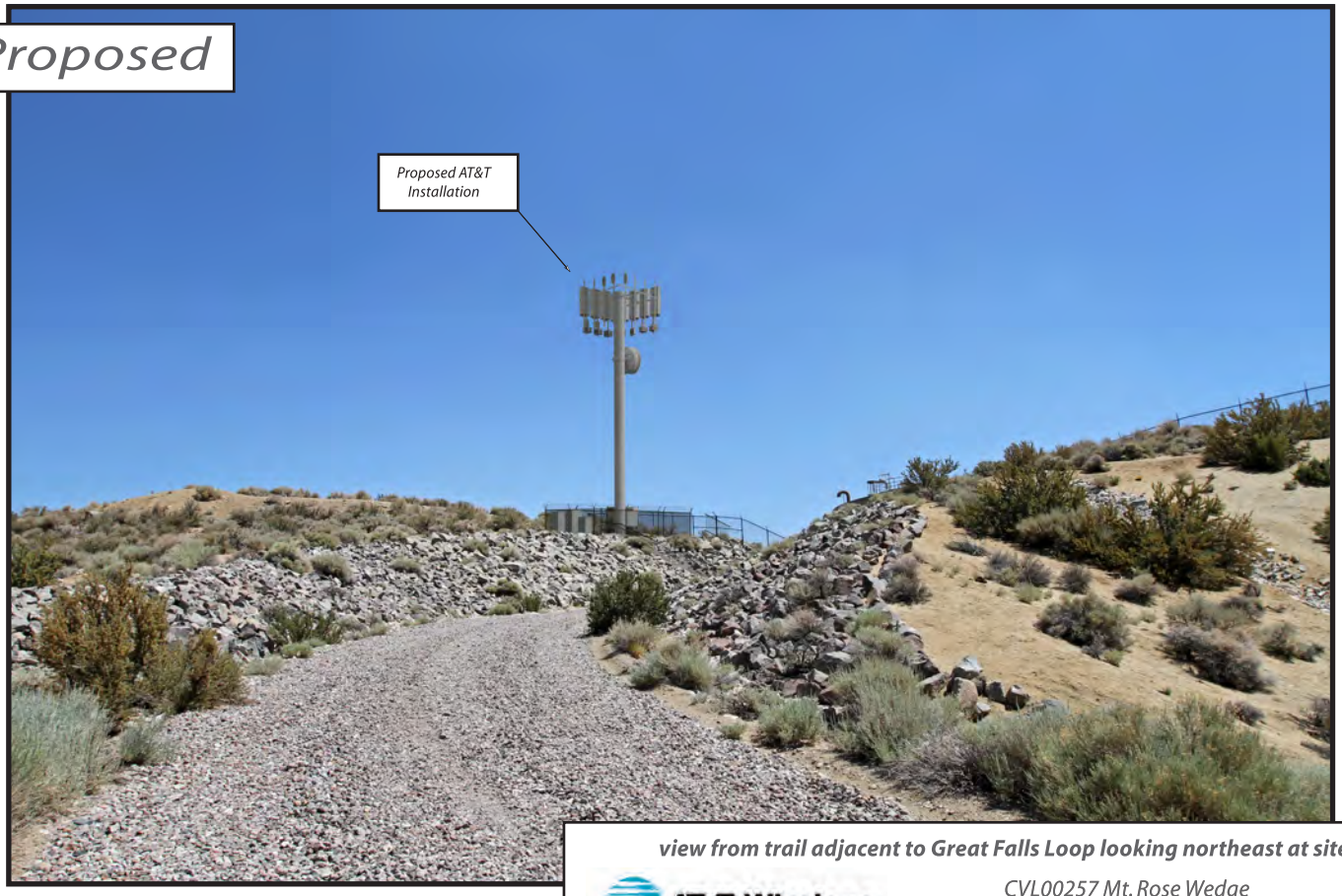
CVL00257 Mt. Rose Wedge
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Shot Point Map

Existing

Proposed



view from trail adjacent to Great Falls Loop looking northeast at site

AT&T Wireless

CVL00257 Mt. Rose Wedge
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed

view from Great Falls Loo looking southeast at site

AT&T Wireless

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Photo Simulation Solutions
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Existing

Proposed

view from Edmonton Drive looking southeast at site

AT&T Wireless

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Existing

Proposed

view from Snowmass Drive looking south at site

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Existing

Proposed

view from Mount Rose Highway looking southwest at site

AT&T Wireless

CVL00257 Mt. Rose Wedge
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed

view from Highway 580 looking southwest at site

AT&T Wireless

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Great Falls Loop, Reno, NV
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Existing

Proposed

view from S. Virginia Street looking northwest at site

AT&T Wireless

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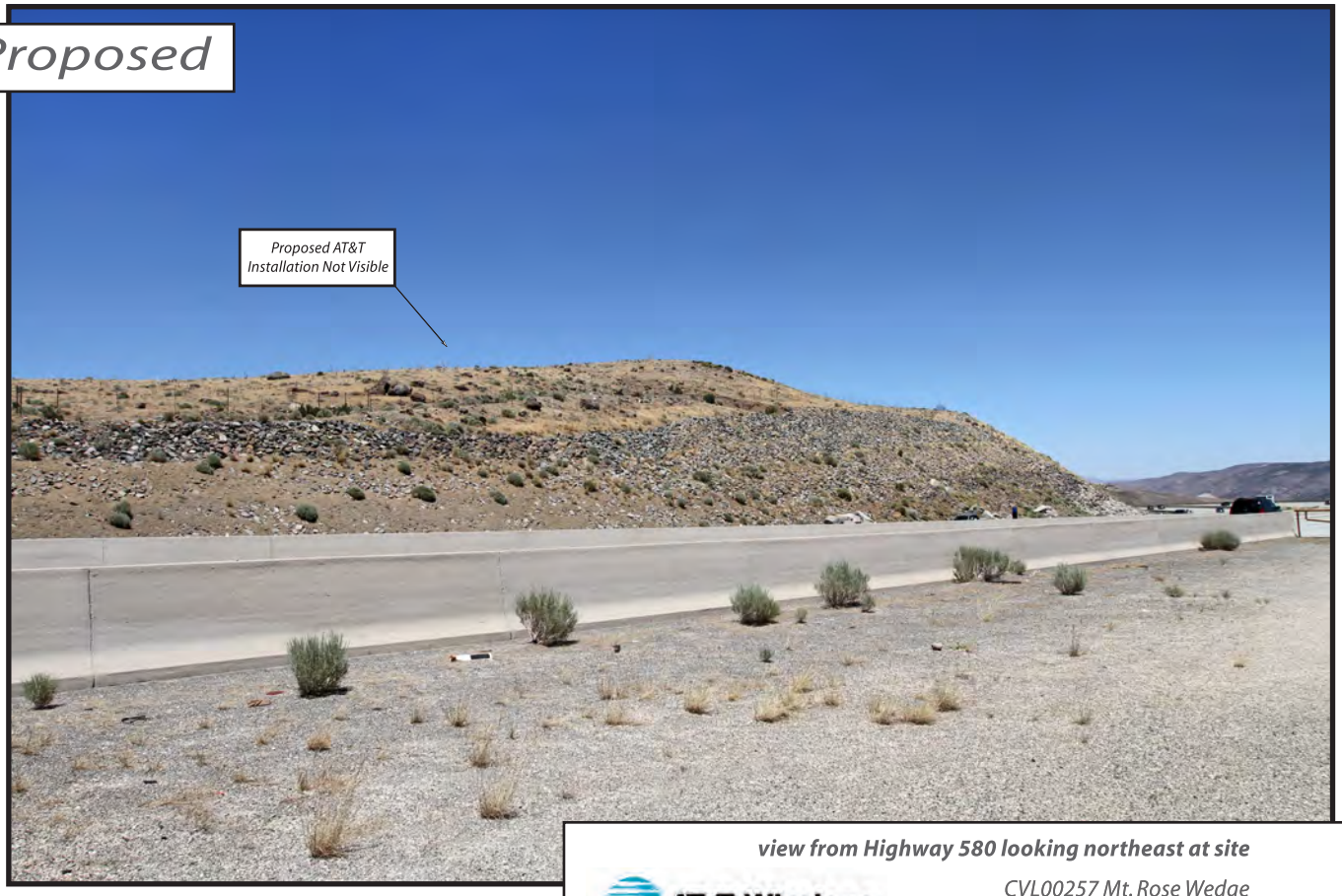
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed



view from Highway 580 looking northeast at site

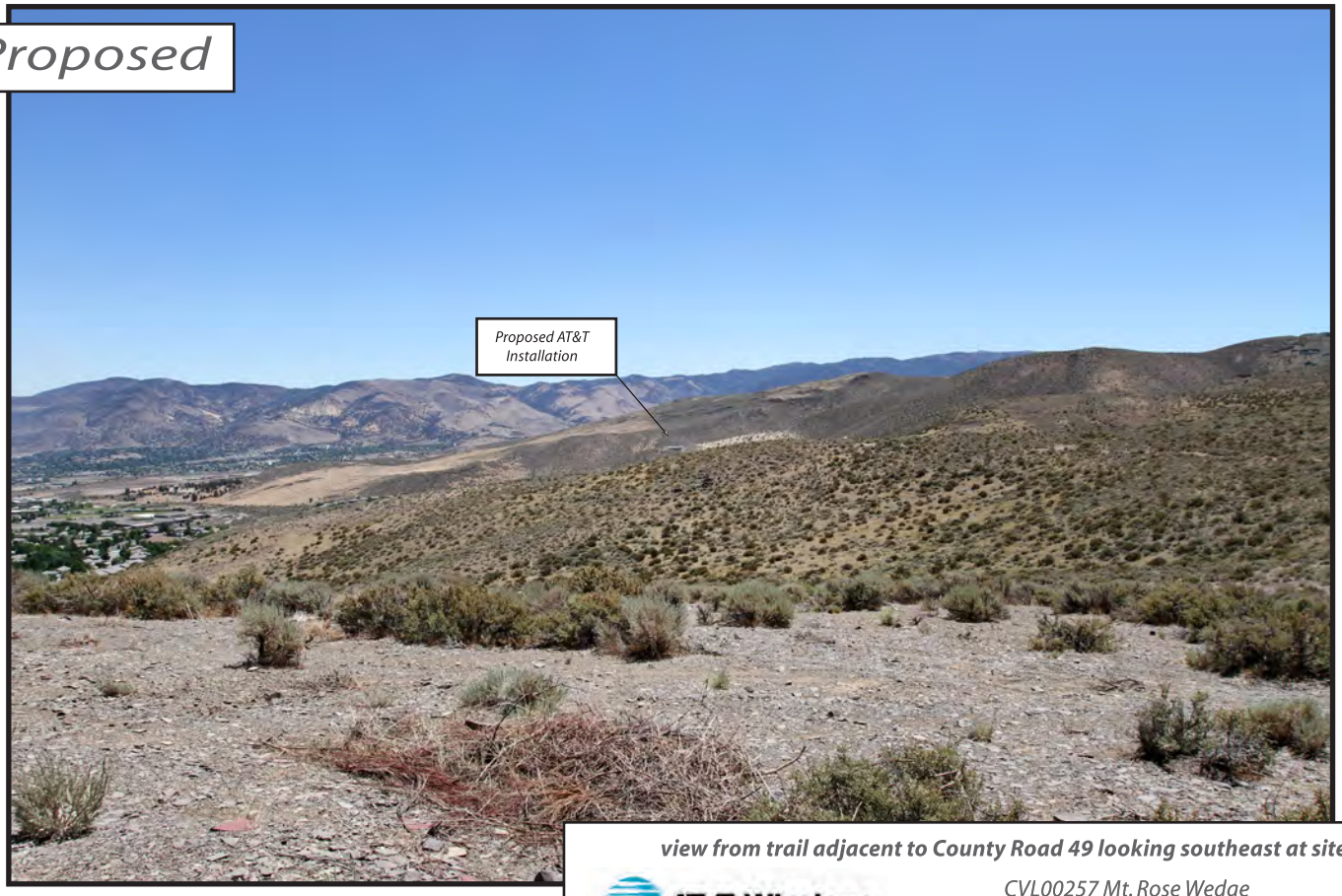
AT&T Wireless

CVL00257 Mt. Rose Wedge
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed



view from trail adjacent to County Road 49 looking southeast at site

AT&T Wireless

CVL00257 Mt. Rose Wedge
Great Falls Loop, Reno, NV
Photosims Produced on 8-3-2021

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507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SW 6157
Favorite Tan
Interior / Exterior
Location Number: 210-C3

SW 7037
Balanced Beige
Interior / Exterior
Location Number: 249-C2

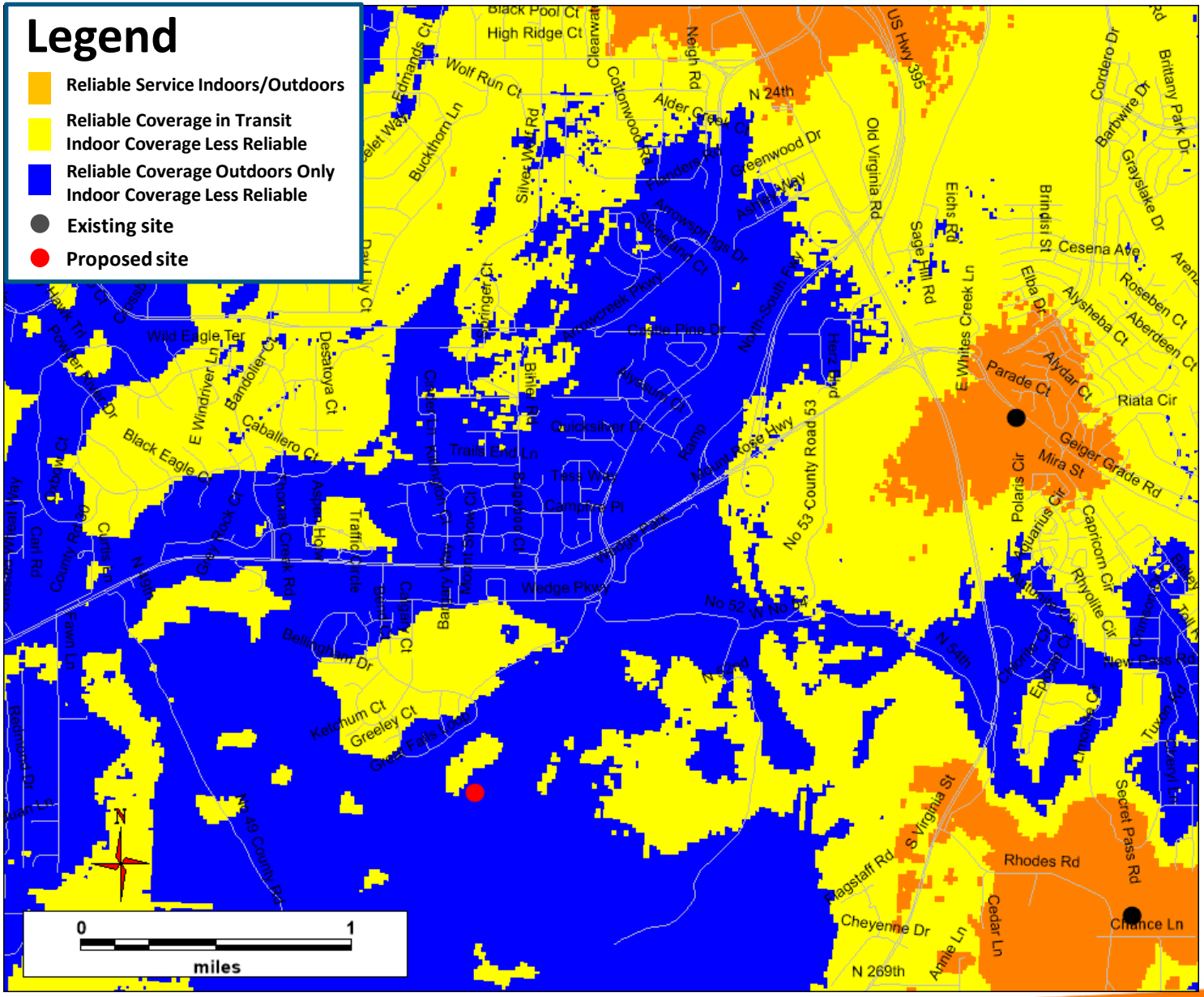
SW 9173
Shiitake
Interior / Exterior
Location Number: 248-C1

SW 7052
Gray Area
Interior / Exterior
Location Number: 246-C3

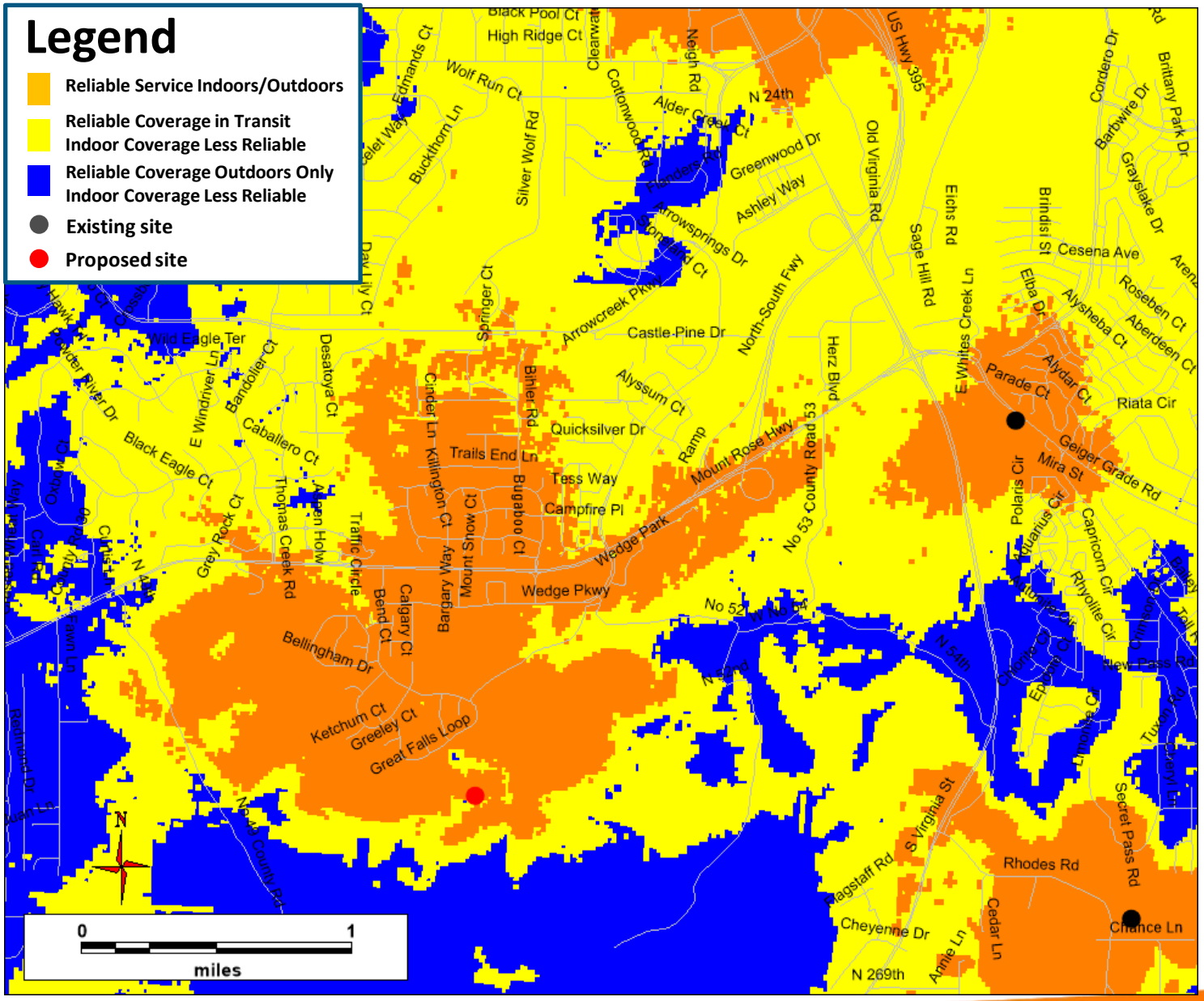
CVL00257 Zoning Propagation Map

August 9, 2021

Existing LTE 700 Coverage



Proposed Tower LTE 700 Coverage



SITE NUMBER: CVL00257
SITE NAME: MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

JURISDICTION: WASHOE COUNTY DISTRICT

APN: 144-010-23

SITE TYPE: MONOPOLE

PROJECT DESCRIPTION

AT&T WIRELESS PROPOSES TO CONSTRUCT AN UNMANNED TELECOMMUNICATIONS FACILITY.
THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL (1) NEW 20'X25' FENCED LEASE AREA
- INSTALL NEW AT&T POWER / TELCO / FIBER TO SITE LOCATION
- INSTALL (1) NEW SITE PRO 1 F4P-12-H5 MOUNT
- INSTALL (1) NEW 55'-0" TALL MONOPOLE
- INSTALL (1) NEW AT&T 512 POWER CABINET @ GROUND LEVEL
- INSTALL (2) NEW AT&T PURCELL CABINETS STACKED @ GROUND LEVEL
- INSTALL (8) NEW AT&T 6'-0" PANEL ANTENNAS
- INSTALL (15) NEW AT&T RRUS @ ANTENNA LEVEL
- INSTALL (3) NEW AT&T DC-SURGE SUPPRESSORS "SQUIDS" @ ANTENNA LEVEL
- INSTALL (1) NEW AT&T GPS UNIT MOUNTED ON NEW BATTERY CABINET
- INSTALL (1) NEW AT&T 30KW DIESEL EMERGENCY BACKUP GENERATOR WITH 190 GAL. BELLY TANK
- INSTALL (3) NEW AT&T FIBER TRUNK, (1) PER DC-9
- INSTALL (9) NEW AT&T DC POWER TRUNK, (3) PER DC-9
- INSTALL (1) NEW AT&T CIENA BOX MOUNTED ON NEW H-FRAME
- INSTALL (1) NEW AT&T 200A POWER METER MOUNTED ON NEW H-FRAME
- INSTALL (1) NEW AT&T GENERATOR ATS MOUNTED ON NEW H-FRAME
- INSTALL (3) NEW AT&T DC-12 MOUNTED ON NEW H-FRAME
- INSTALL (1) HOFFMAN BOX BELOW CIENA BOX ON H-FRAME

NOTE: RF EQUIPMENT IS SHOWN IN CHART ON A-4.

PROJECT INFORMATION

SITE NAME: MT. ROSE WEDGE

SITE NUMBER: CVL00257

SEARCH RING: RENO

FA# 10151387

SITE ADDRESS:	GREAT FALLS LOOP RENO, NV 89511
ASSESSOR'S PARCEL NO.:	144-010-23
NEW USE:	UNMANNED OUTDOOR TELECOMMUNICATIONS FACILITY
ZONING JURISDICTION:	WASHOE COUNTY DISTRICT
LATITUDE:	39° 22' 45.38" N (39.379272)
LONGITUDE:	119° 46' 35.59" W (-119.776553)
GROUND ELEVATION:	±5278' AMSL
ZONING CLASSIFICATION:	----
TYPE OF CONSTRUCTION:	II-A
OCCUPANCY GROUP:	U

PROPERTY OWNER:
TRUCKEE MEADOWS WATER AUTHORITY
PO BOX 30013
RENO, NV 89520

POWER AGENCY:
NV ENERGY

TELEPHONE AGENCY:
AT&T CALIFORNIA
525 MARKET STREET
SAN FRANCISCO, CA 94105
PHONE: (800) 310-2355

RFDS DATES: 02/20/2021 ISSUE: 1.00.00
REVISION: 1.00.00

PROJECT TEAM

APPLICANT / LESSEE:
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583
CONTACT: TAYIIKA (TY) LOGAN-BURKS
EMAIL: tl84a@att.com
PHONE (O): (925) 277-6090
PHONE (M): (925) 549-4671

SITE ACQUISITION:
EPIC WIRELESS
605 COOLIDGE DRIVE, SUITE 100,
FOLSOM, CA 95630
CONTACT: KATHRYN LEAL
EMAIL: kathryn.leal@epicwireless.net

CONSTRUCTION MANAGER:
EPIC WIRELESS
PETE MANAS
pete.manas@epicwireless.net
PHONE: (530) 383-5957

M SQUARED WIRELESS:
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673
CONTACT: MICHAEL MONTELLO
PHONE: (949) 391-6824
www.msquaredwireless.com

RF ENGINEER:
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583
ASASD SHAHBAZ
ms455v@us.att.com

PRE-FABRICATED SHELTER:
CELLXION, LLC
A DIVISION OF SABRE INDUSTRIES
5031 HAZEL JONES RD
BOSSIER CITY, LA 71111
PHONE: (318) 213-2900

CIVIL VENDOR:
LANCE UMBERTIS
TILLMAN INFRASTRUCTURE
PHONE: (805) 234-1513

SHEET INDEX

		REV
T-1	TITLE SHEET	E
C-1	SITE SURVEY	E
C-2	SITE SURVEY	E
A-0	SITE PLAN	E
A-1	ENLARGED SITE PLAN	E
A-2	LEASE AREA	E
A-3	EQUIPMENT PLAN	E
A-4	ANTENNA PLAN AND SCHEDULE	E
A-5	ELEVATIONS	E
A-6	ELEVATIONS	E
D-1	DETAILS	E
D-2	DETAILS	E
D-3	DETAILS	E
D-4	DETAILS	E
E-1	ELECTRICAL NOTES, ABBREVIATIONS & LEGEND	E
E-2	UTILITY ROUTE PLAN	E
E-3	SINGLE LINE DIAGRAM & PANEL SCHEDULE	E
E-4	GROUNDING PLAN	E
E-5	ELECTRICAL & GROUNDING DETAILS	E

CODE COMPLIANCE

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	2018 IBC W/AMENDMENTS
MECHANICAL	2018 UMC W/AMENDMENTS
ELECTRICAL	2017 NEC W/AMENDMENTS

APPROVALS

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

AT&T RF ENGINEER: _____ DATE: _____

AT&T OPERATIONS: _____ DATE: _____

SITE ACQUISITION: _____ DATE: _____

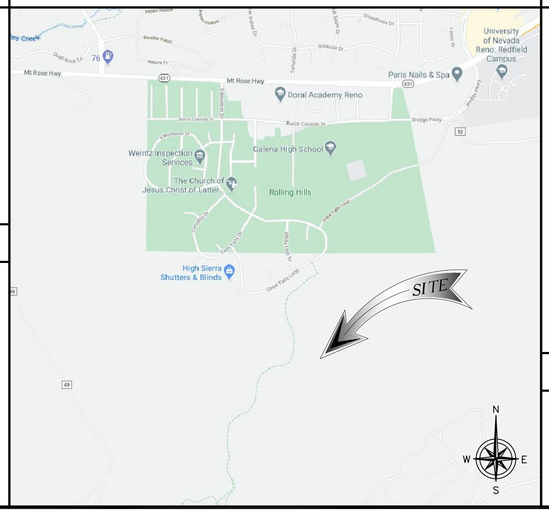
CONSTRUCTION MANAGER: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

ZONING: _____ DATE: _____

PROJECT MANAGER: _____ DATE: _____

VICINITY MAP



DIRECTIONS

DIRECTIONS FROM AT&T OFFICE AT 2600 CAMINO RAMON, SAN RAMON, CA:

1. HEAD NORTHEAST TOWARD SUNSET DR
2. TURN RIGHT
3. TURN RIGHT TOWARD SUNSET DR
4. TURN LEFT TOWARD SUNSET DR
5. CONTINUE ONTO SUNSET DR
6. USE THE RIGHT LANE TO TURN SLIGHTLY RIGHT TOWARD BOLLINGER CANYON RD
7. USE THE RIGHT LANE TO TURN RIGHT ONTO BOLLINGER CANYON RD
8. USE THE RIGHT LANE TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO
9. MERGE ONTO I-680 N
10. KEEP LEFT AT THE FORK TO STAY ON I-680 N
11. KEEP LEFT AT THE FORK TO CONTINUE ON I-680
12. KEEP RIGHT TO CONTINUE ON I-680 N
13. KEEP LEFT TO STAY ON I-680 N
14. USE ANY LANE TO TAKE EXIT 71A TOWARD I-80 E/SACRAMENTO
15. MERGE ONTO I-80 E
16. USE THE RIGHT 2 LANES TO TAKE THE I-80 EXIT TOWARD RENO
17. CONTINUE ONTO I-80 E
18. KEEP LEFT AT THE FORK TO STAY ON I-80 E
19. USE THE RIGHT 2 LANES TO TAKE EXIT 15 TO MERGE ONTO I-580 S/US-395 S TOWARD CARSON CITY
20. KEEP LEFT TO CONTINUE ON I-580 S
21. USE THE RIGHT 2 LANES TO TAKE EXIT 24 TO MERGE ONTO NV-431 W/MT ROSE HWY
22. MERGE ONTO NV-431 W/MT ROSE HWY
23. TURN LEFT ONTO EDMONTON DR
24. TURN RIGHT ONTO WHITE FISH DR
25. TURN LEFT ONTO GREAT FALLS LOOP

SPECIAL INSPECTIONS

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALLVERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONFITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

DIGALERT
Call Toll Free
1-800-422-4133
2 Working Days Before You Dig
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
G	06/16/2021	100% ZD'S REVISED	MF
F	05/21/2021	100% ZD'S REVISED	WD
E	05/10/2021	100% ZD'S REVISED	ARP
D	04/20/2021	100% ZD'S REVISED	MF
C	04/03/2021	100% ZD'S REVISED	SD
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

NOTES:

1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.

3. THE BELOW GRADING INFORMATION IS AN ESTIMATE:
   - TRENCH IS TO BE 3'-0" DEEP AND 16" WIDE - ALL SPOILS TO BE PLACED BACK INTO TRENCH & COMPACTED TO 90%
   - CONCRETE FOOTING IS TO BE 18 YARDS WITH A 5'-0" DIA.
   - CONCRETE PAD IS TO BE 9 YARDS TOTAL DISPLACEMENT - HALF ABOVE GRADE: DIRT TO BE IMPACTED 5 YARDS UNDER
   - ALL SPOILS TO BE REMOVED FROM PROJECT SITE

DISCLAIMER:
THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON THE JURISDICTIONS WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED ON THE JURISDICTIONS WEBPAGE AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.

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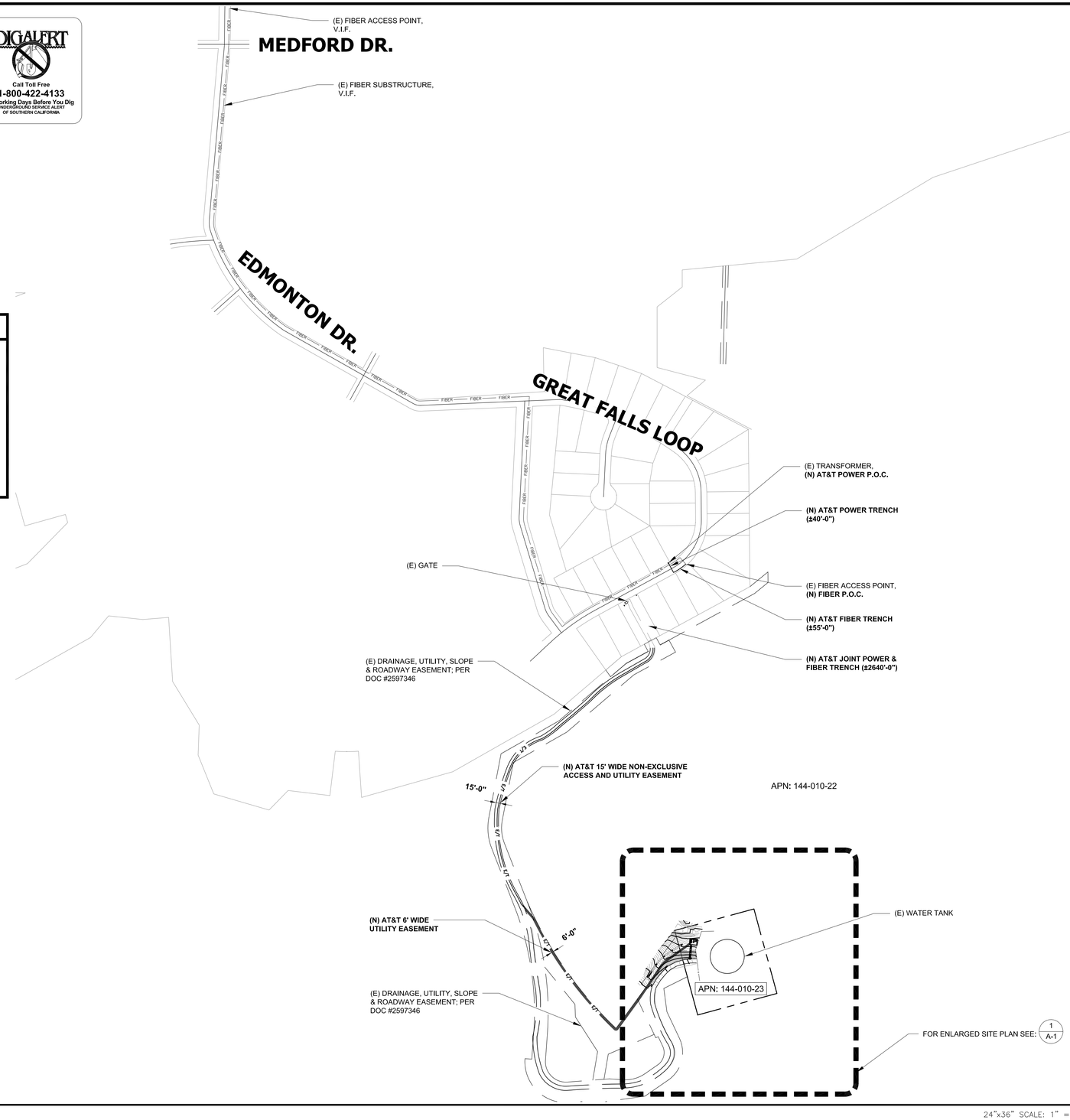
2 Working Days Before You Dig
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

LEGEND

- PROPERTY LINE – SUBJECT PARCEL
- NEW LEASE AREA
- EXISTING SETBACK LINE
- EXISTING FENCE LINE
- EXISTING ROAD
- EXISTING BUILDING



SITE PLAN

24"x36" SCALE: 1" = 200'-0"
11"x17" SCALE: 1" = 400'-0"
200' 100' 0" 200'

1

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
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A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
SITE PLAN

SHEET NUMBER
A-0

NOTES:

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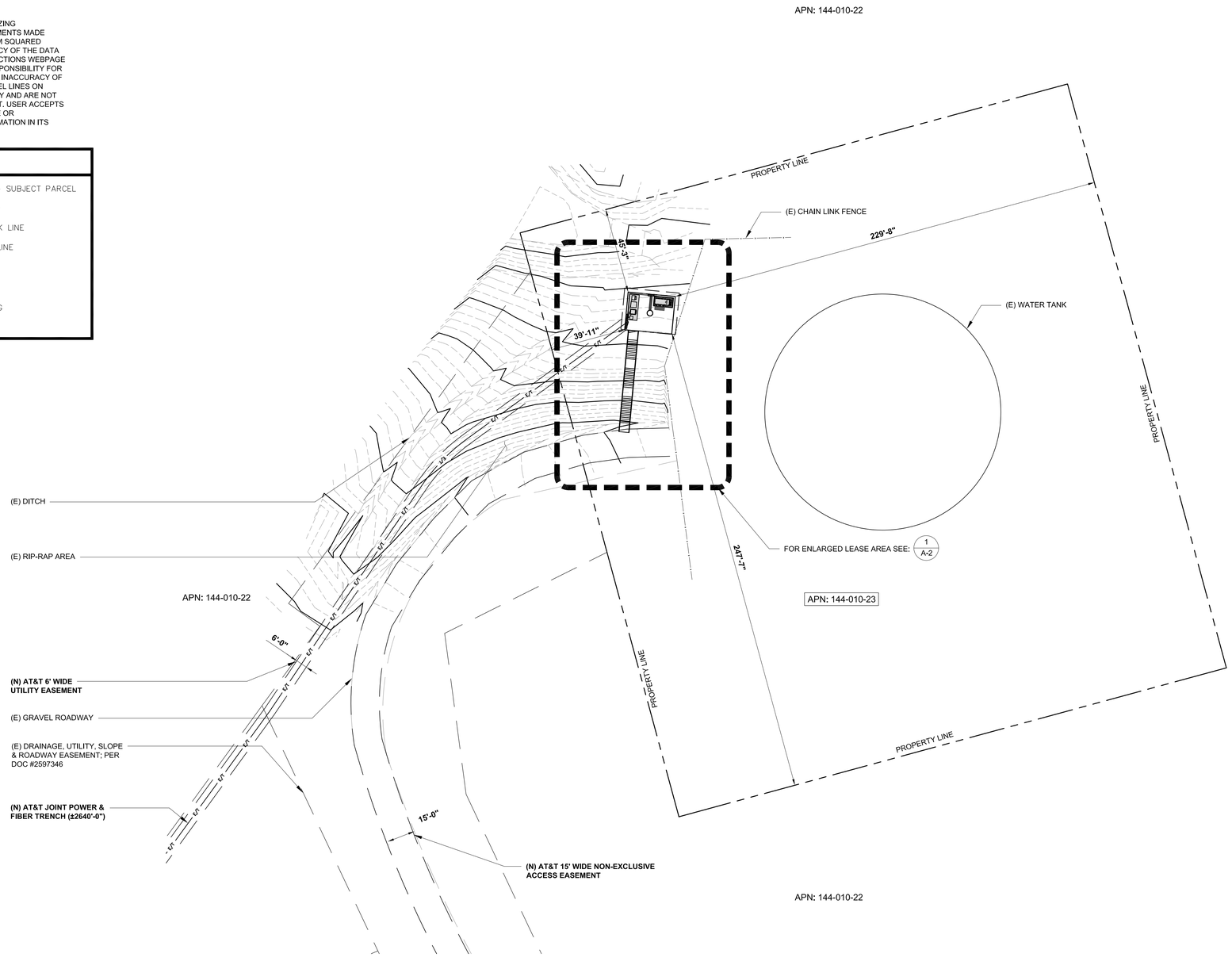
- NEW LEASE AREA
- EXISTING SETBACK LINE
- EXISTING FENCE LINE
- EXISTING ROAD
- EXISTING BUILDING



ENLARGED SITE PLAN

24"x36" SCALE: 1" = 30'-0"
11"x17" SCALE: 1" = 60'-0"
30' 15' 0' 30

1

ISSUED FOR:
MT. ROSE WEDGE

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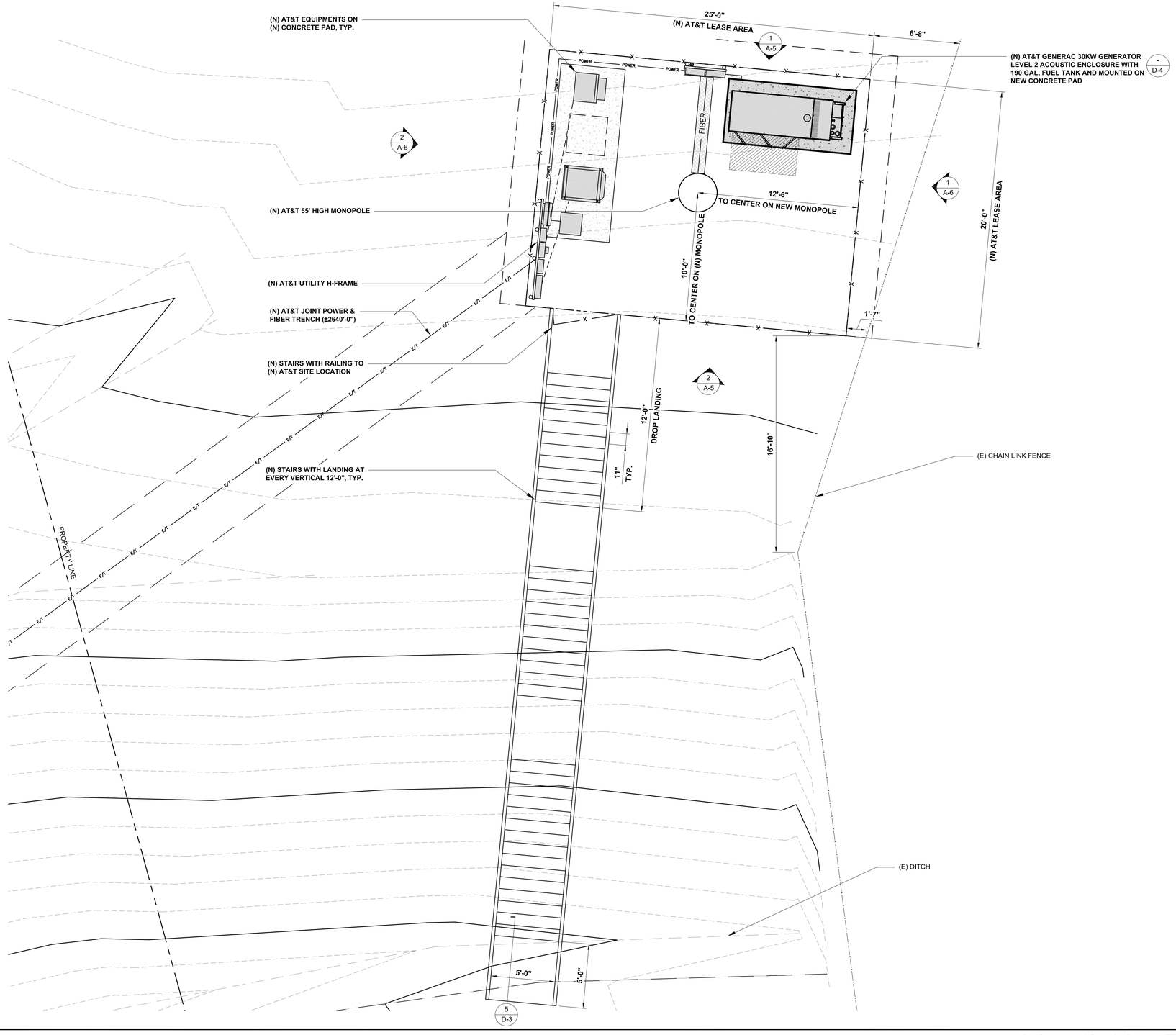
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-1



LEASE AREA

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

2

ISSUED FOR:

MT. ROSE WEDGE

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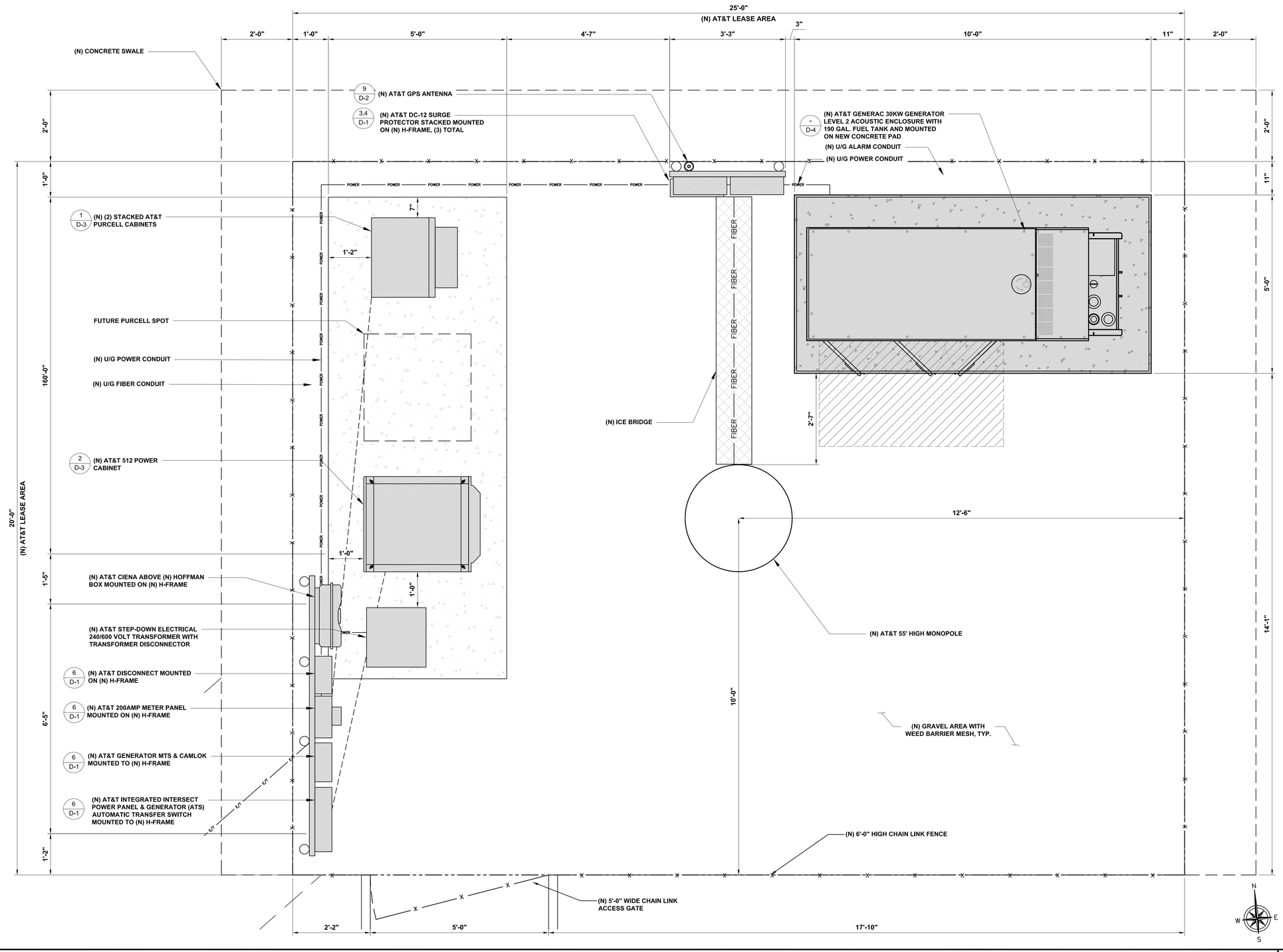
LICENSOR:

SHEET TITLE

LEASE AREA

SHEET NUMBER

A-2



EQUIPMENT PLAN

24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

1

ISSUED FOR:

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LICENSOR:

SHEET TITLE

EQUIPMENT PLAN

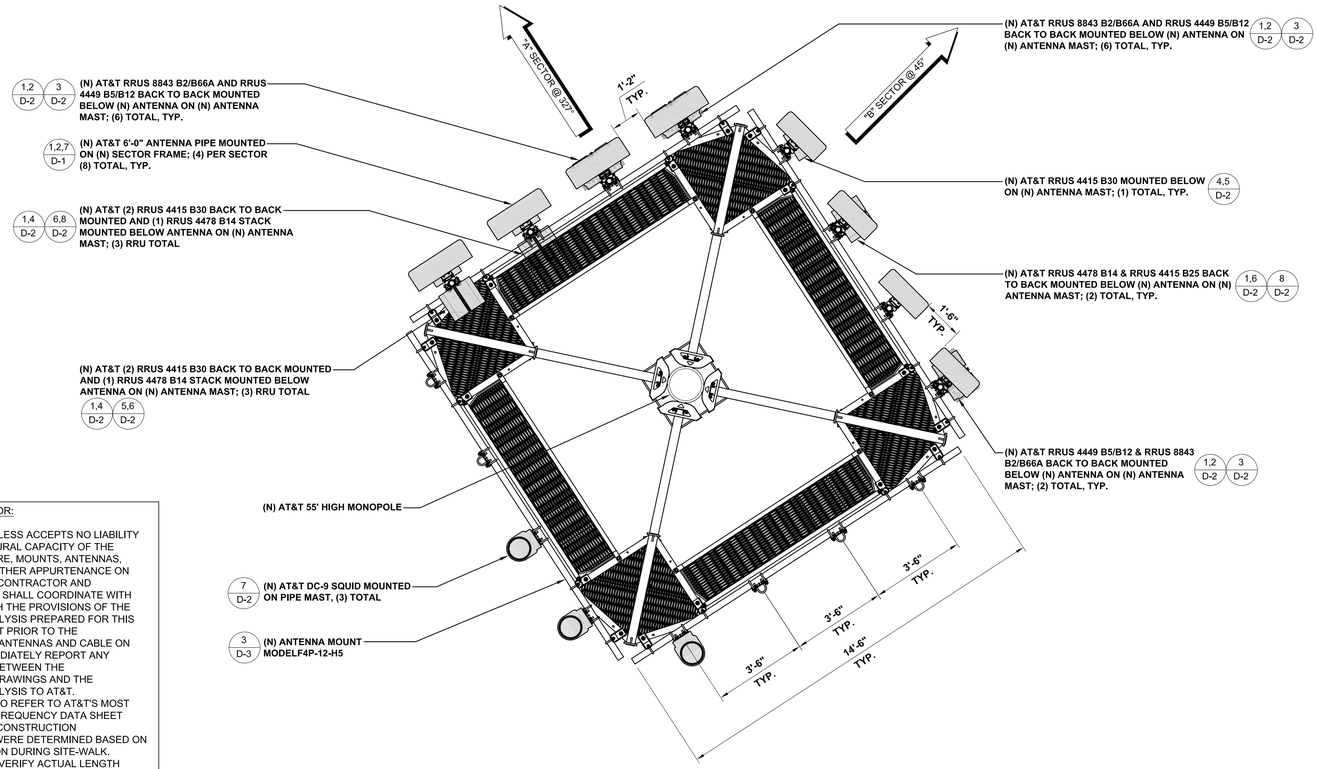
SHEET NUMBER

A-3

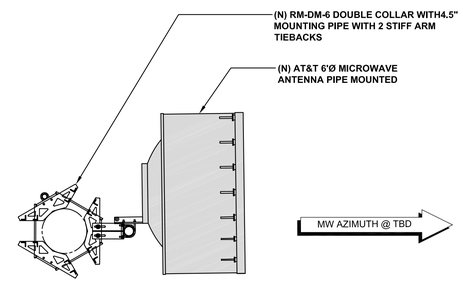
		NEW OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)						NEW REMOTE RADIO UNITS, TOWER MOUNTED AMPLIFIERS AND ANTENNA FILTERS (VERIFY WITH CURRENT RFDS)				
	ANTENNA	NEW TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION LINE		RRUS MODEL	RRUS COUNT	TMA, ANTENNA FILTER, & SURGE SUPRESSOR	TMA/ FILTER/ SURGE COUNT	#DC FEEDS
						LENGTH	TYPE					
ALPHA SECTOR	A1	LTE 700/ 5G/ 850/ 1900	CCI BSA-M65R-BUU-H6-K (6'-0")	327°	55'-0"	±70'	FIBER	**RRUS B5/B12 4449 & B2/B66A 8843**	2	**DC-9 'SQUID' SURGE SUPPRESSOR**	2	6
	A2	LTE 700/ 5G/ 850/ AWS	CCI BSA-M65R-BUU-H6-K (6'-0")	327°	55'-0"	±70'	FIBER	**RRUS B5/B12 4449 & B2/B66A 8843**	2	-	-	-
	A3	LTE 700/1900	CCI BSA-M65R-BUU-H6-K (6'-0")	327°	55'-0"	±70'	FIBER	**RRUS 4478 B14 & (2) 4415 B25**	3	-	-	-
	A4	LTE 700/WCS	CCI BSA-M65R-BUU-H6-K (6'-0")	327°	55'-0"	±70'	FIBER	**RRUS 4478 B14 & (2) 4415 B30**	3	-	-	-
BETA SECTOR	B1	LTE 700/ 5G/ 850/ 1900	CCI HPA-33R-BUU-H6-K (6'-0")	45°	55'-0"	±70'	FIBER	**RRUS B5/B12 4449 & B2/B66A 8843**	2	**DC-9 'SQUID' SURGE SUPPRESSOR**	1	3
	B2	LTE 700/ 5G/ 850/ AWS	CCI HPA-33R-BUU-H6-K (6'-0")	45°	55'-0"	±70'	FIBER	**-**	-	-	-	-
	B3	LTE 700/1900	CCI HPA-33R-BUU-H6-K (6'-0")	45°	55'-0"	±70'	FIBER	**RRUS 4478 B14 & 4415 B25**	2	-	-	-
	B4	LTE 700/WCS	CCI HPA-33R-BUU-H6-K (6'-0")	45°	55'-0"	±70'	FIBER	**RRUS 4415 B30**	1	-	-	-
									15 TOTAL		**3** TOTAL	**9** TOTAL

ANTENNA & TOWER MOUNTED EQUIPMENT SCHEDULE

2



55' RAD CENTER



45' RAD CENTER

NOTES TO CONTRACTOR:

1. M SQUARED WIRELESS ACCEPTS NO LIABILITY FOR THE STRUCTURAL CAPACITY OF THE TOWER STRUCTURE, MOUNTS, ANTENNAS, CABLES OR ANY OTHER APPURTENANCE ON THE TOWER. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF ANTENNAS AND CABLE ON THE TOWER. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO AT&T.
2. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
3. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
4. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM

NEW ANTENNA PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

0" 1' 2' 4'

1

ISSUED FOR:
MT. ROSE WEDGE

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RENO, NV 89511

at&t
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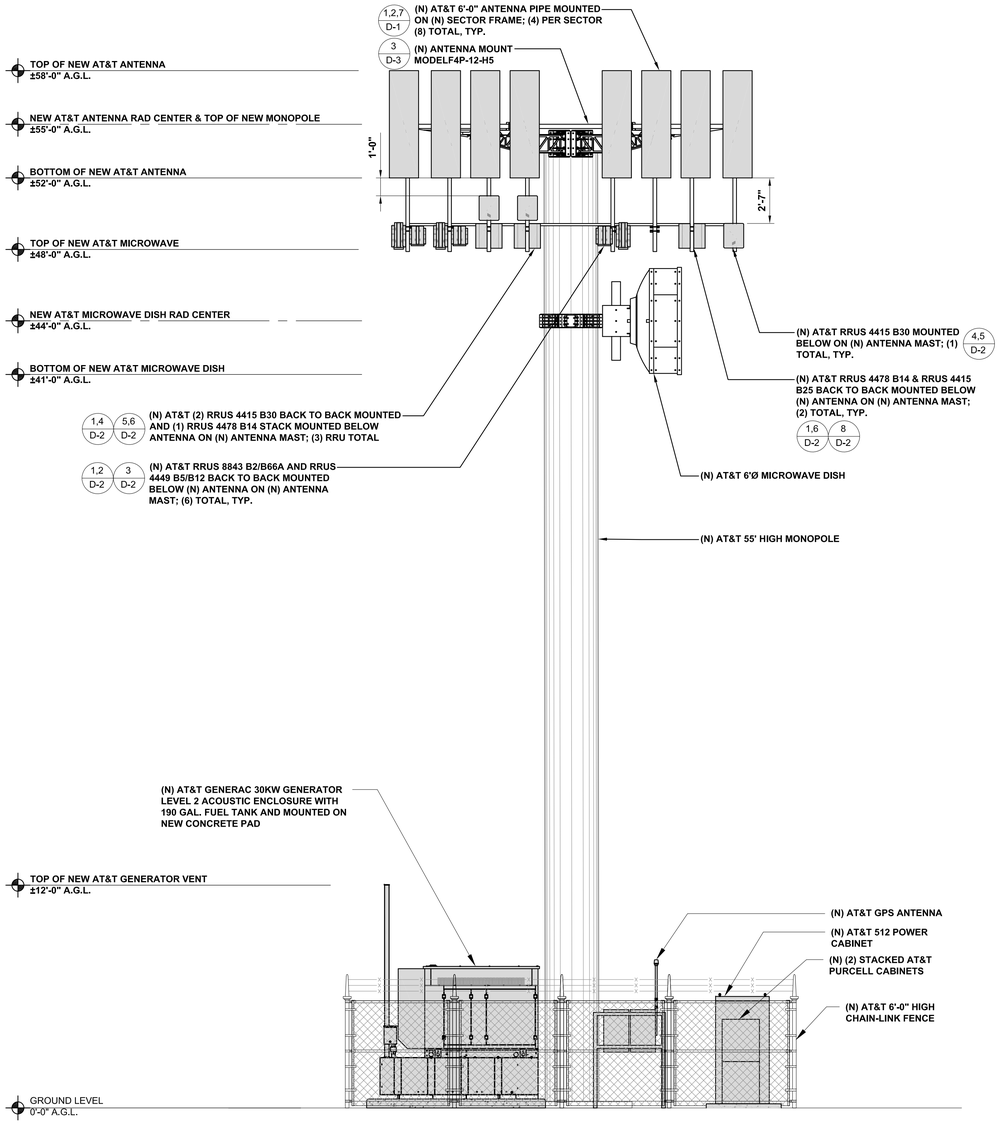
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
ANTENNA PLAN & SCHEDULE

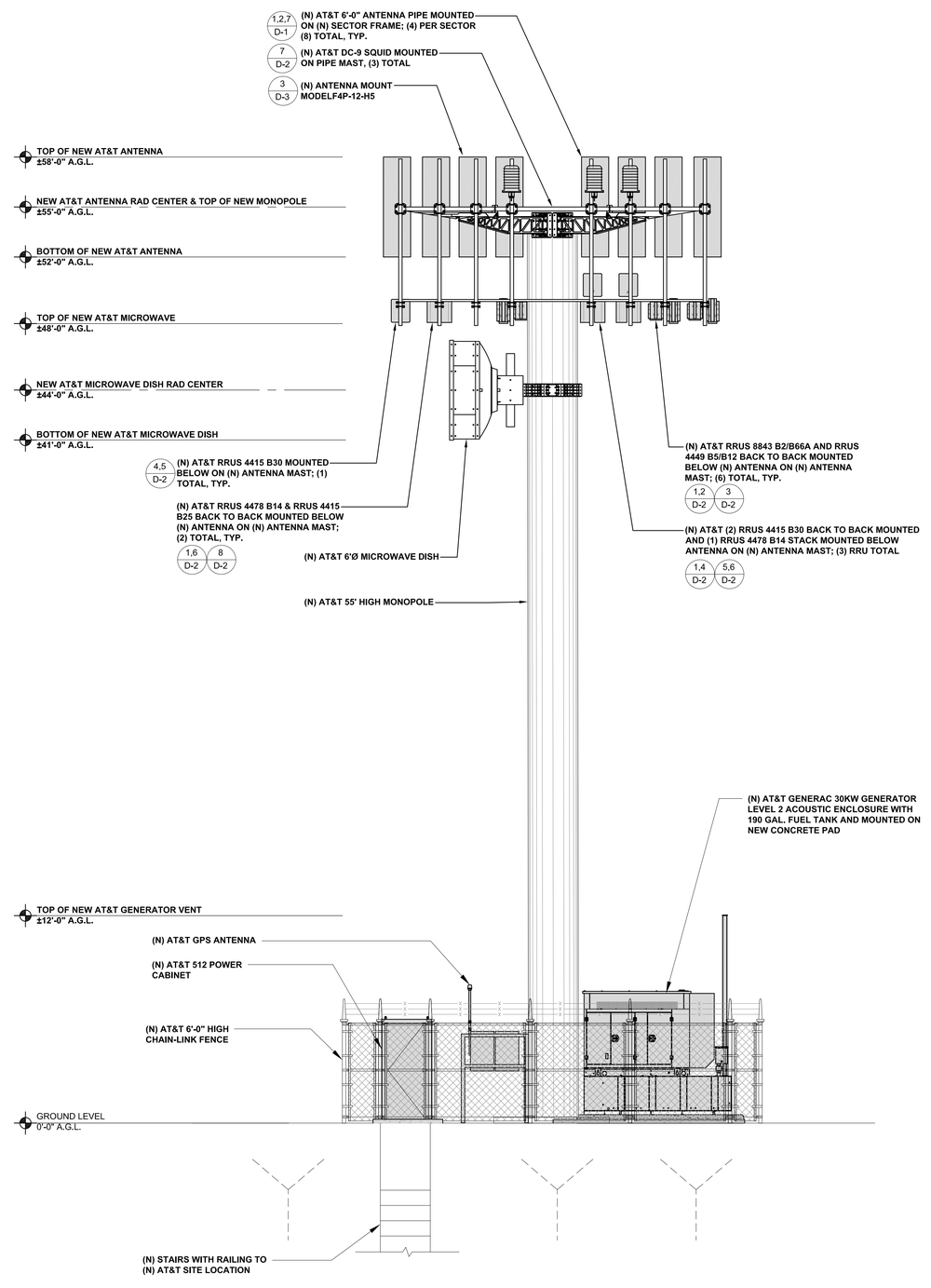
SHEET NUMBER
A-4



NORTH ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

1



SOUTH ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

2

ISSUED FOR:

MT. ROSE WEDGE

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RENO, NV 89511

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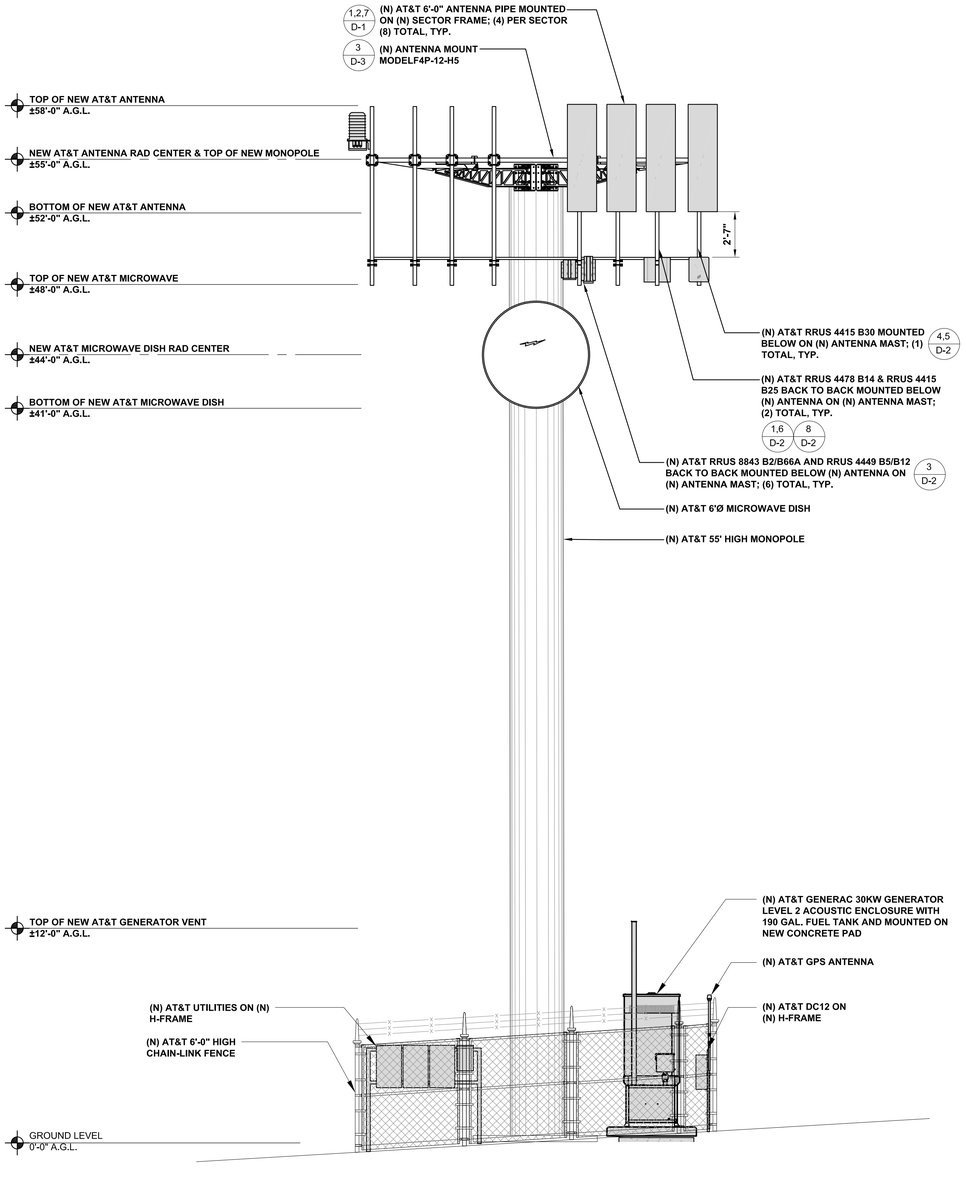
LICENSOR:

SHEET TITLE

ELEVATIONS

SHEET NUMBER

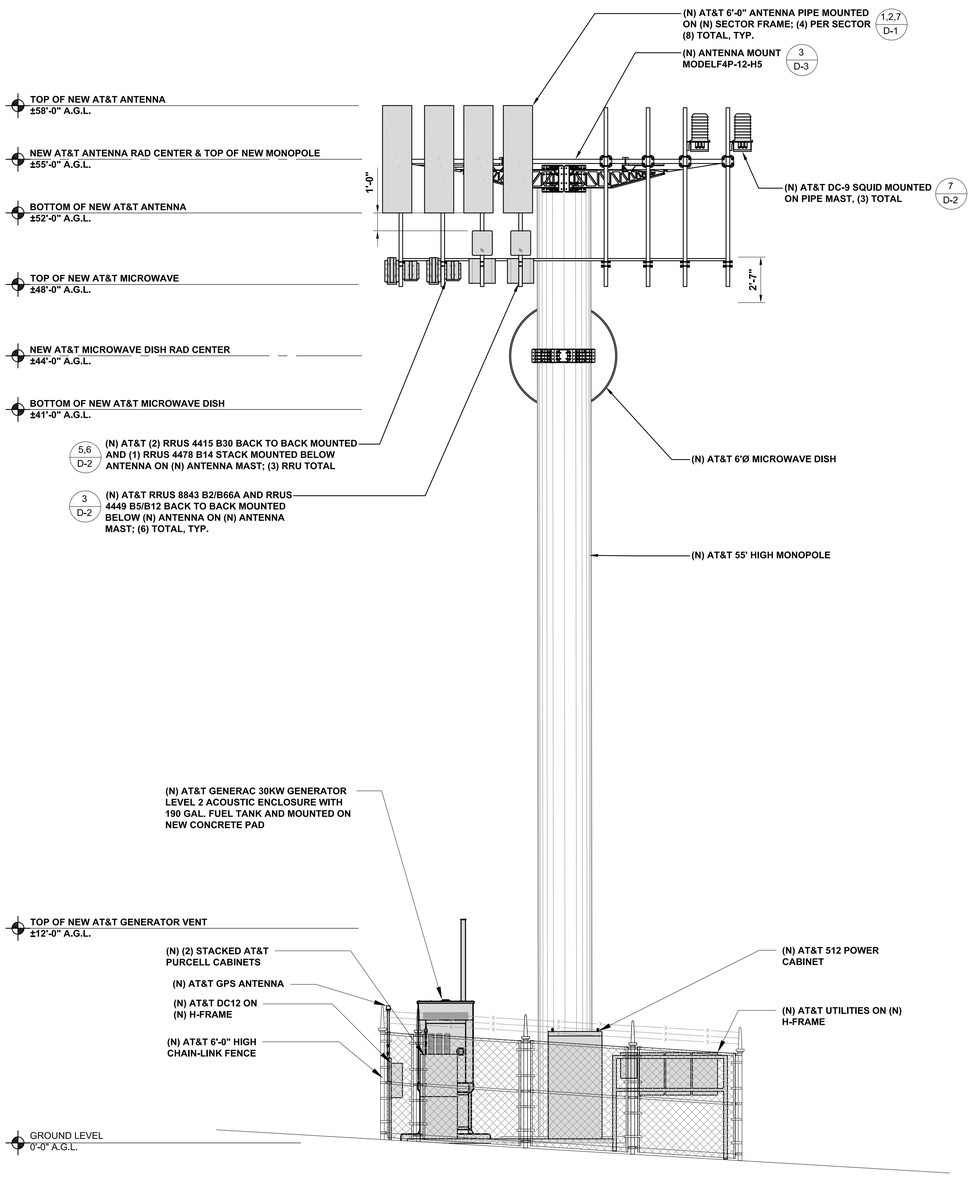
A-5



EAST ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

1



WEST ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

2

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D	04/20/2021	100% ZD'S REVISED	MF
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A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

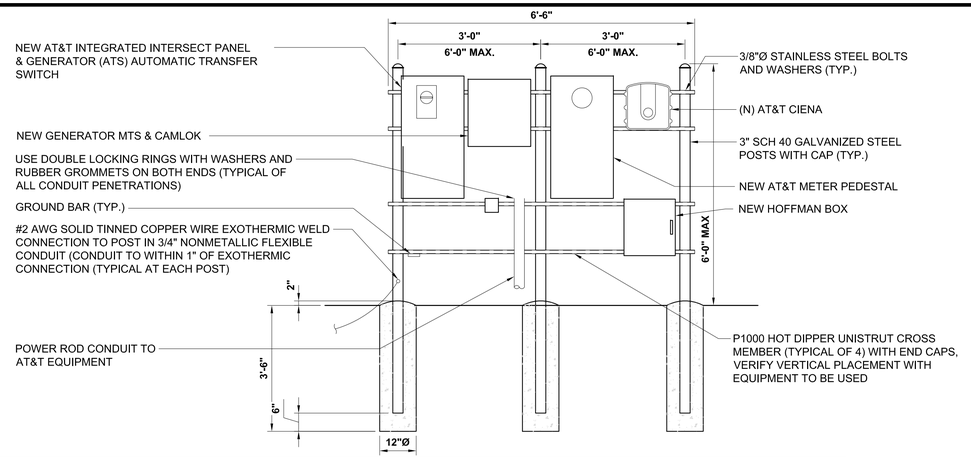
SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-6

NOTE:
AVAILABLE FAULT CURRENT LABEL TO BE PLACED AND DATE. SIZE OF LABEL TO BE 2' x 3' AND SHALL BE BLUE LETTERING

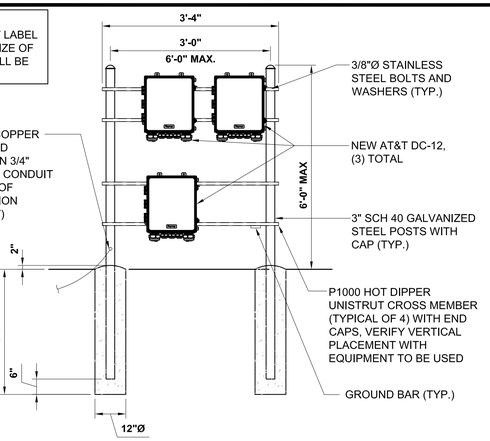


H-FRAME DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

NOTE:
AVAILABLE FAULT CURRENT LABEL TO BE PLACED AND DATE. SIZE OF LABEL TO BE 2' x 3' AND SHALL BE BLUE LETTERING

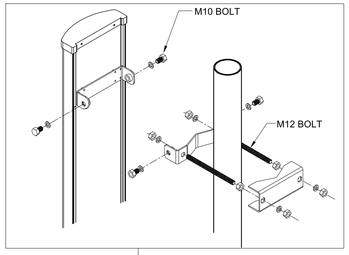


DC-12 H-FRAME DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

MAXIMUM TORQUE	
M8	15N.m (11FT.LBS)
M10	37N.m (27FT.LBS)
M12	58N.m (43FT.LBS)



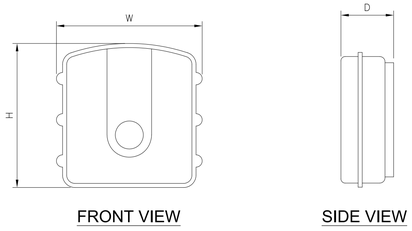
MAXIMUM TORQUE	
M10	37N.m (27FT.LBS)
M12	58N.m (43FT.LBS)

ANTENNA MOUNTING DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7

CIENA CN 3931	
HEIGHT (H)	17.2"
WIDTH (W)	16.1"
DEPTH (D)	6.4"
WEIGHT	24 LBS

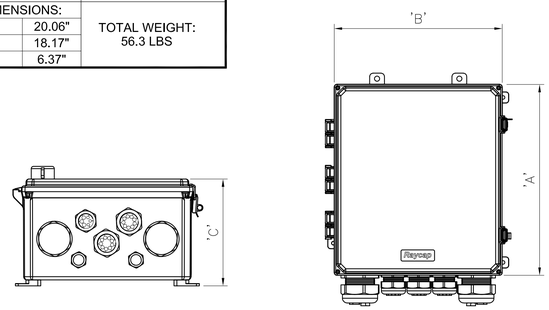


CIENA CN 3931

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

MANUFACTURER:	RAYCAP
MODEL NO.:	DC12-48-60-0-25E
DIMENSIONS:	
A	20.06"
B	18.17"
C	6.37"
TOTAL WEIGHT:	56.3 LBS

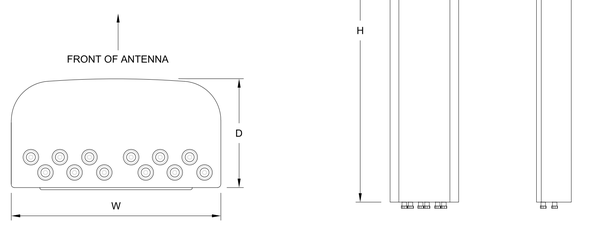


DC-12 SURGE SUPPRESSOR

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

CCI BSA-M65R-BUU-H6-K	
HEIGHT (H)	72.0"
WIDTH (W)	28.5"
DEPTH (D)	9.7"
WEIGHT	120.2 LBS.
SURVIVAL WIND SPEED:	150.0 MPH
CONNECTOR:	(12) 7-16 DIN FEMALE - BOTTOM
MOUNTING POLE:	2 - 5 INCHES

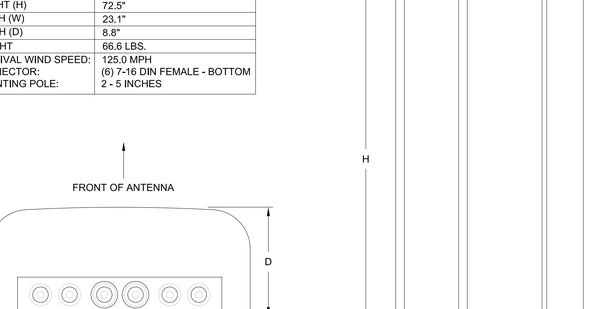


CCI 6'-0" PANEL ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

CCI HPA-33R-BUU-H6-K	
HEIGHT (H)	72.5"
WIDTH (W)	23.1"
DEPTH (D)	8.8"
WEIGHT	66.6 LBS.
SURVIVAL WIND SPEED:	125.0 MPH
CONNECTOR:	(6) 7-16 DIN FEMALE - BOTTOM
MOUNTING POLE:	2 - 5 INCHES



CCI 6'-0" PANEL ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

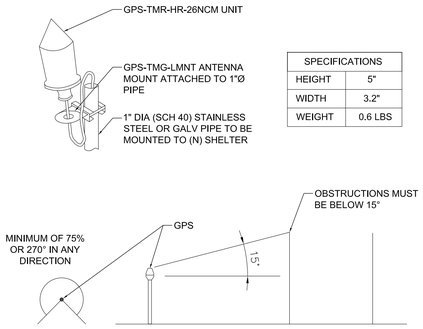
REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
G	06/16/2021	100% ZD'S REVISED	MF
F	05/21/2021	100% ZD'S REVISED	WD
E	05/10/2021	100% ZD'S REVISED	ARP
D	04/20/2021	100% ZD'S REVISED	MF
C	04/03/2021	100% ZD'S REVISED	SD
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

NOTE:
1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1"Ø, SCH. 40, GALVANIZED S.S. STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQ'D LENGTH USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBARRED.
2. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2° OF LEVEL.
3. DO NOT SWEEP TEST GPS ANTENNA.



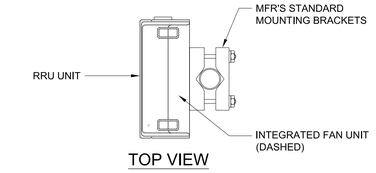
SPECIFICATIONS	
HEIGHT	5"
WIDTH	3.2"
WEIGHT	0.6 LBS

(N) GPS ANTENNA

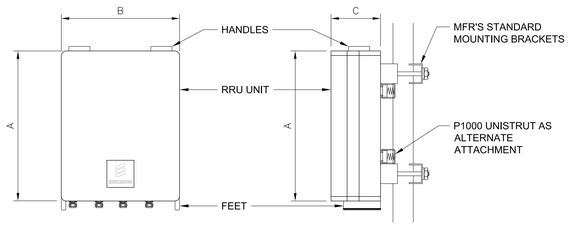
24"x36" SCALE: NTS
11"x17" SCALE: NTS

9

MANUFACTURER:		ERICSSON
MODEL NO.:		RRUS 4478 B14
DIMENSIONS:		TOTAL WEIGHT :
A	16.5"	
B	13.4"	59.9 LBS (27.2 kg)
C	7.7"	



TOP VIEW



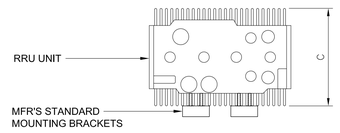
FRONT VIEW SIDE VIEW

ERICSSON RRUS 4478 B14

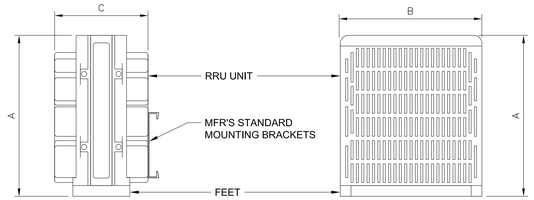
24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

MANUFACTURER:		ERICSSON
MODEL NO.:		RRUS 4449 B5/B12
DIMENSIONS:		TOTAL WEIGHT :
A	15"	
B	13.2"	70 LBS (31.7 kg)
C	9.3"	



BOTTOM VIEW



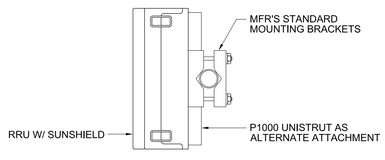
SIDE VIEW FRONT VIEW

ERICSSON RRUS 4449 B5/B12

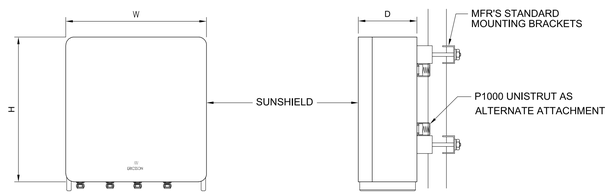
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

MANUFACTURER:		ERICSSON
MODEL NO.:		RRUS 4415 B25
DIMENSIONS:		TOTAL WEIGHT :
A	16.5"	
B	13.4"	46 LBS (21 kg)
C	5.9"	



TOP VIEW



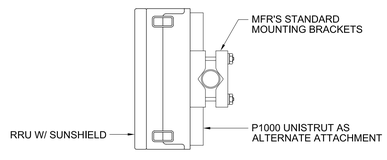
FRONT VIEW SIDE VIEW

RRUS 4415 B25

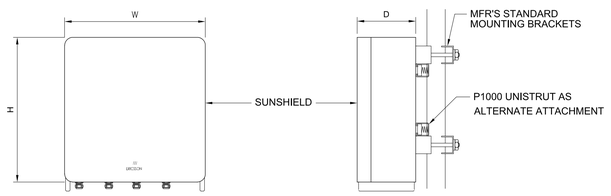
24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

MANUFACTURER:		ERICSSON
MODEL NO.:		RRUS 4415 B30
DIMENSIONS:		TOTAL WEIGHT :
A	16.5"	
B	13.4"	46 LBS (21 kg)
C	5.9"	



TOP VIEW



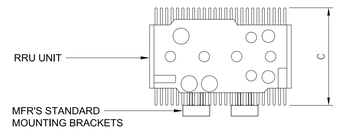
FRONT VIEW SIDE VIEW

RRUS 4415 B30

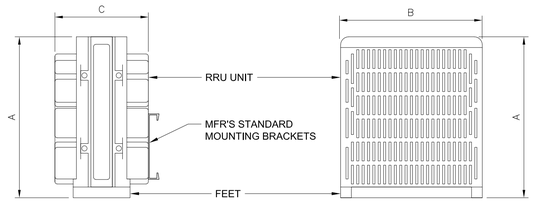
24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

MANUFACTURER:		ERICSSON
MODEL NO.:		RRUS 8843
DIMENSIONS:		TOTAL WEIGHT :
A	18"	
B	13.2"	75 LBS (34 kg)
C	11.3"	



BOTTOM VIEW



SIDE VIEW FRONT VIEW

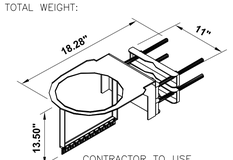
ERICSSON RRU 8843

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

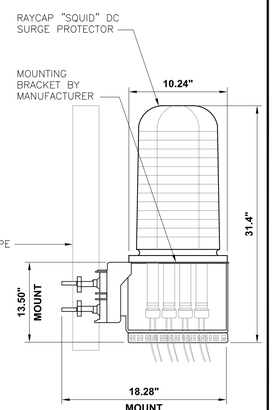
RAYCAP DC9-48-60-24-8C-EV

DIMENSIONS, WXDXH:	260X798MM (10.24"X31.4")
NOMINAL OPERATING VOLTAGE:	48 VDC
NOMINAL DISCHARGE CURRENT:	20 KA 8/20MS
MAXIMUM DISCHARGE CURRENT:	60 KA 8/20MS
MAXIMUM CONTINUOUS OPERATING VOLTAGE:	60 VDC
VOLTAGE PROTECTION RATING:	330 V
WIND LOADING:	150 MPH (SUSTAINED) 195 MPH (GUST)
TOTAL WEIGHT:	26.2 LBS



CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION

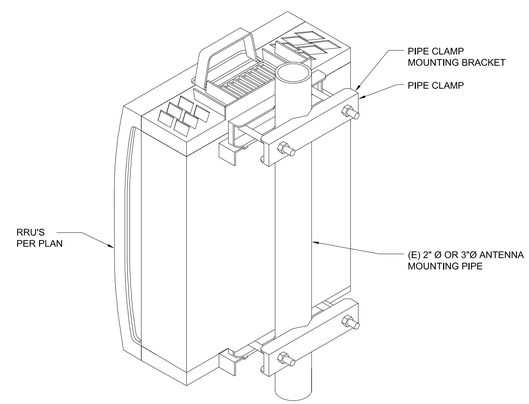
NOTE: TO BE INSTALLED WITHIN 10 FEET OF RADIO UNIT



DC-9 "SQUID" SURGE SUPPRESSOR

24"x36" SCALE: NTS
11"x17" SCALE: NTS

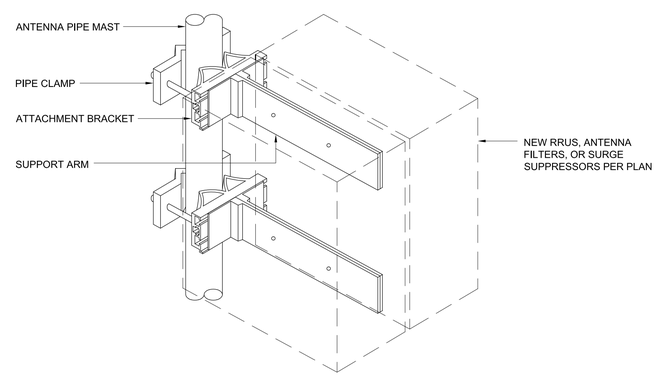
7



RRUS @ STD. PIPE MOUNT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4



RRU BACK-TO-BACK MOUNT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

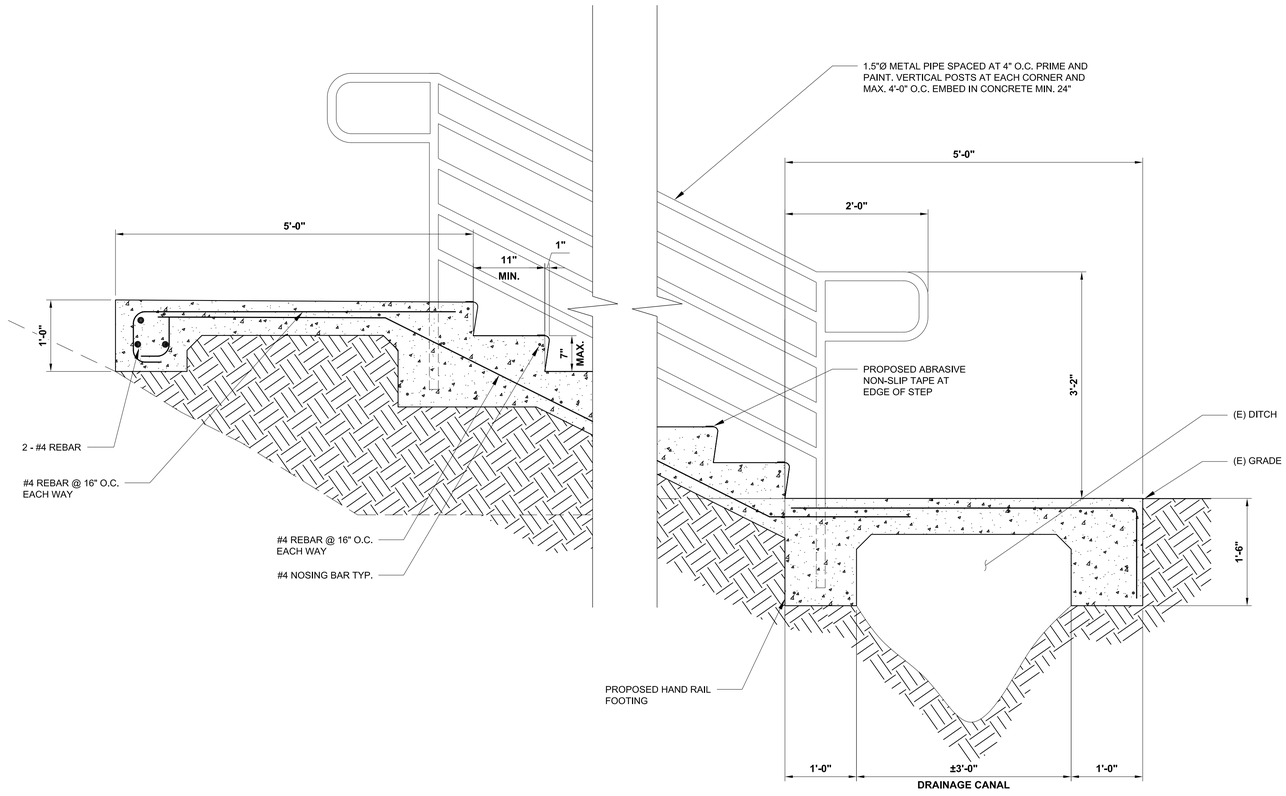
AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
G	06/16/2021	100% ZD'S REVISED	MF
F	05/21/2021	100% ZD'S REVISED	WD
E	05/10/2021	100% ZD'S REVISED	ARP
D	04/20/2021	100% ZD'S REVISED	MF
C	04/03/2021	100% ZD'S REVISED	SD
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
DETAILS

SHEET NUMBER
D-2



STAIRS DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

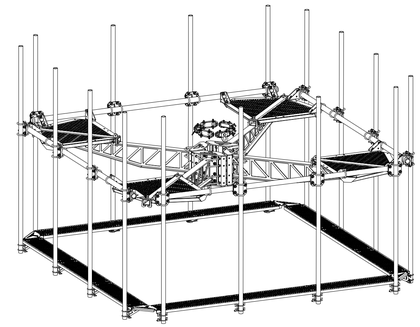
NOT USED

7

NOT USED

4

MANUFACTURER:	SITE PRO1
MODEL NO.:	F4P-12-H5
DESCRIPTION:	4-SECTOR MONOPOLE FRAME
WEIGHT:	±3896.98 LBS

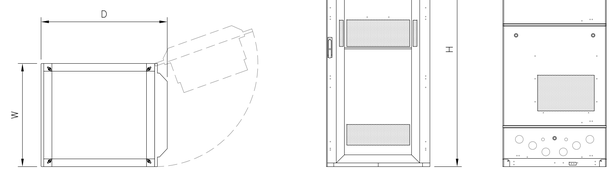


SITEPRO 1 F4P-12-H5 SECTOR FRAME

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

EMERSON NETWORK POWER NETXTEND FLEX CABINET - F2012504 -48VDC/+24VDC POWER & BATTERY ENCLOSURE	
HEIGHT (H)	72"
WIDTH (W)	32"
DEPTH (D)	39"
WEIGHT	752 LBS.
MOUNTING:	PAD/ PLATFORM

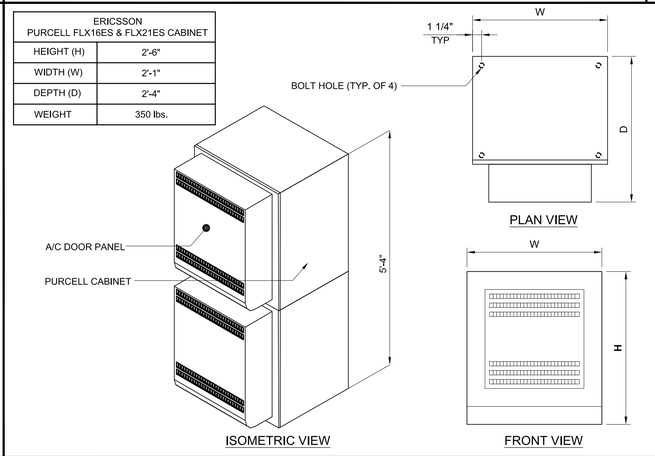


NETSURE 512 DC POWER SYSTEM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

ERICSSON PURCELL FLX16ES & FLX21ES CABINET	
HEIGHT (H)	2'-6"
WIDTH (W)	2'-1"
DEPTH (D)	2'-4"
WEIGHT	350 lbs.



PURCELL FLX16ES & FLX21ES CABINET

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ISSUED FOR:

MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
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M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
G	06/16/2021	100% ZD'S REVISED	MF
F	05/21/2021	100% ZD'S REVISED	WD
E	05/10/2021	100% ZD'S REVISED	ARP
D	04/20/2021	100% ZD'S REVISED	MF
C	04/03/2021	100% ZD'S REVISED	SD
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE

DETAILS

SHEET NUMBER

D-3

FOR REFERENCE ONLY

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

GENERAC | INDUSTRIAL POWER

Standby Power Rating
30 kW, 38 kVA, 60 Hz

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

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

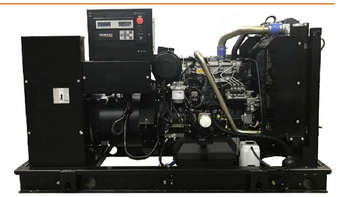


Image used for illustration purposes only

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

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

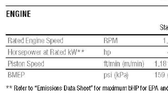
ALTERNATOR SYSTEM
- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3 Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

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 (339.2 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 - in³ (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	1,900
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: 0161070SBY
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
K0060124Y21	76	K0060124Y21	58
K0050124Y21	93	K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)
3 (1)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
16.8 (63)

Diesel - gph (Lph)

Percent Load	Standby
25%	1.0 (3.7)
50%	1.4 (5.2)
75%	2.0 (7.5)
100%	2.8 (10.5)

* 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)	128,630 (136)
Inlet Air	scfm (m³/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Below Derate)		See Bulletin No. 0199270SBY
Maximum Radiator Backpressure	in H₂O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power scfm (m³/min)	88 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	40
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	109 (1,096)

EXHAUST

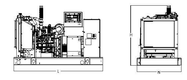
		Standby
Exhaust Flow (Rated Output)	scfm (m³/min)	296.6 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	in Hg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	892 (478)

** 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 0187500SB
Prime - See Bulletin 0187510SB

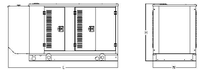
SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



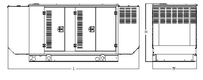
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank		76.0 (1,930) x 32.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 32.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 32.4 (950) x 69.8 (1,772)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 32.4 (950) x 81.8 (2,078)	2,580 (1,162)
107	300 (1,136)	92.9 (2,360) x 32.4 (950) x 81.8 (2,078)	2,823 (1,190)



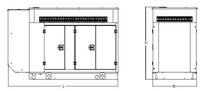
WEATHER PROTECTED ENCLOSURE

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 (1,589)		
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	372 (176)	241 (110)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,199)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,199)		



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 (1,589)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (230)	338 (154)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,199)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,199)		



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)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510 (232)	341 (155)
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.

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Part No. 10000024842
Rev. B 09/27/18

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
G	06/16/2021	100% ZD'S REVISED	MF
F	05/21/2021	100% ZD'S REVISED	WD
E	05/10/2021	100% ZD'S REVISED	ARP
D	04/20/2021	100% ZD'S REVISED	MF
C	04/03/2021	100% ZD'S REVISED	SD
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

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

SHEET TITLE
DETAILS

SHEET NUMBER
D-4

GENERAL ELECTRICAL NOTES

1. SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL FIELD VERIFICATION AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER AND OWNER LISTING ALL MALFUNCTIONS, FAULTY, EQUIPMENT, AND DISCREPANCIES.
3. THESE PLANS ARE SCHEMATIC ONLY; CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.
4. ANTENNA MOUNTING HEIGHTS AND AZIMUTHS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE INDICATED. NOTE THAT CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
6. IF REQUIRED, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
7. ALL MATERIALS AND EQUIPMENT SHALL BE PROPOSED AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. EXCEPTIONS TO THIS MAY BE PERMITTED IF PROPOSED REPLACEMENT BREAKERS OR SWITCHES ARE NOT AVAILABLE FOR ORIGINAL ELECTRICAL DISTRIBUTION EQUIPMENT -- ON THAT CASE. RECONDITIONED EQUIPMENT MAY BE PERMISSIBLE IF IT CARRIES ONE (1) YEAR WARRANTY. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCK APPROVAL. Materials SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
8. IF CONTRACTOR IS PROPOSING ALTERNATE MATERIALS OR CONSTRUCTION METHODS FROM WHAT IS SPECIFIED IN THE PLANS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK.
9. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL CODES (NEC2014) AND ALL LOCAL AND STATE CODES (CEC 2016), LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
10. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD,PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) REQUIREMENTS.
11. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER, ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
12. CLEAN WORK SITE DAILY, AND REMOVE ALL DEBRIS RESULTING FROM CONSTRUCTION. LEAVE JOB SITE IN A TIDY AND UNDAMAGED CONDITION.
13. UPON COMPLETION OF WORK, PERFORM CONTINUITY, SHORT CIRCUIT, AND GROUNDING TEST. GROUNDING SYSTEM SHALL BE TESTED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. AFTER APPROVAL, FURNISH ONE COPY OF REPORT TO ENGINEER.
14. PROVIDE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL EQUIPMENT LOCATIONS, CONDUIT/CABLE ROUTING, PANEL SCHEDULE, AND OTHER DETAILS WITHIN 10 DAYS OF PROJECT COMPLETION. DATE OF JOB COMPLETION SHALL BE THE SATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER, AFTER SITE INSPECTION AND SIGNOFF BY OWNER.
15. ALL BROCHURES, OPERATING MANUAL, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
18. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED THORUGH THE FLOOR OR WALLS FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
19. EXACT LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS, SUCH AS X-RAY EQUIPMENT OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
20. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE WEATHERPROOF SEALANT. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH CURRENT LOCAL BUILDING CODES USING U.L. RATED MATERIALS.
21. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM. UNLESS NOTED OTHERWISE, INSULATION SHALL BE 90°C RATED, AND DUAL RATED THHN/THWN-2. NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
23. GROUND THE ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NEC AND DRAWINGS. BELOW GRADE GROUND CONDUCTORS SHALL BE #2 AWG SOLID BARE TINTED COPPER. ABOVE GRADE, ALL CONDUCTORS SHALL BE STRANDED GREEN INSULATED COOPER, SEIZED #2 AWG OR AS SHOWN IN THE DRAWINGS. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 8' LONG. GROUNDING HARDWARE SHALL BE ERICO, STORM COPPER COMPONENTS, FUSHI COPPERWELD OR APPROVED EQUAL.
24. GROUND ALL ANTENNA BASES, ENCLOSURES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO THE BUS BARS. FOLLOW EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR GROUNDING. GROUND COAX SHIELD AT BOTH ENDS USING CABLE MANUFACTURER'S RECOMMENDATIONS.
25. THE NUMBER OF GROUNDING BARS MAY VARY DEPENDING UPON THE SITE LAYOUT, ANTENNA LOCATION, AND OTHER FACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SUFFICIENT GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
26. EXOTHERMIC WELDS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, CABLE TO GROUND RODS, GROUND ROD SPLICES AND OTHER SYSTEMS AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, ETC.) SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS AND PROCEDURES. ALL EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF GALVITE (WHITE) PAINT OR SILVERBRITE (ALUMINUM).
27. ALL STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL. ALL MECHANICAL CONNECTIONS SHALL HAVE ANTI-OXIDANT GREASE (E.G. NO-OX) APPLIED BETWEEN LUG AND BUS BAR.
28. ALL EXPOSED TINNED COPPER GROUNDS SHALL BE PROTECTED BY 1/2" PVC CONDUIT AND SECURED. WHERE SUBJECT TO MECHANICAL DAMAGE, OTHER GROUND LEADS SHALL ALSO BE ENCLOSED IN 1/2" OR 3/4" LTFC.
29. COMPRESSION FITNESS TO BE USED ON ALL CONDUITS (NO SETSCREWS).
30. PVC CONDUIT INSTALLED IN OUTDOOR LOCATIONS SUBJECT TO SUNLIGHT EXPOSURE SHALL BE UV RESISTANT. SURFACE-MOUNTED CONDUIT INSTALLED IN LOCATIONS SUBJECT TO FOOT TRAFFIC OR OTHER WEAR AND TEAR, SHALL BE PVC SCHEDULE 80, IMC, OR GRC. CONDUIT RUNS ALONG WALLS OR FLOORS SHALL BE SURFACE MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. OTHER CONDUIT REQUIREMENTS:

30.a. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE WATERTIGHT COMPRESSION TYPE. IMC SHALL BE USED FOR OUTDOOR RUNS, IMC IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3

30.b. ELECTRICAL METALLIC TUBING (EMT) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

30.c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

30.d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.

31. ALL PROPOSED ELECTRICAL ENCLOSURES (EXCEPT FOR JUNCTION OR SPLICE BOXES) SUCH AS PANELBOARDS AND DISCONNECT SWITCHES SHALL BE LABELED WITH PERMANENT ENGRRAVED PHENOLIC NAMEPLATES, BLACK WITH WHITE LETTERING, AND ATTACHED WITH RIVETS.

ABBREVIATIONS

AAV	ALTERNATE ACCESS VENDOR	GR	GROWTH (CABINET)	UADU	UNIVERSAL TYPE A DIGITAL UNIT
ACCA	ANTENNA CABLE ASSEMBLY	GRC	GALVANIZED RIGID (STEEL) CONDUIT	U/G	UNDERGROUND
AFF	ABOVE FINISHED FLOOR	IGB	INTERNAL GROUND BAR	WP	WEATHERPROOF
AFG	ABOVE FINISHED GRADE	IGR	INTERIOR GROUND RING	WW	WIREWAY
AWS	ADVANCED WIRELESS SERVICES	IMC	INTERMEDIATE METALLIC CONDUIT	XFMR	TRANSFORMER
A/G	ABOVE GROUND	ISCW	INSULATED STRANDED COPPER WIRE		
AGB	ANTENNA GROUND BAR	LTE	LONG TERM EVOLUTION		
ATS	AUTOMATIC TRANSFER SWITCH	LTFC	LIQUID TIGHT FLEXIBLE CONDUIT		
AWG	AMERICAN WIRE GAUGE	MGB	MAIN (OR MASTER) GROUND BAR		
BBU	BASEBAND UNIT	MMBS	MULTI-MODE BASE STATION		
BCW	BARE COPPER WIRE	MTS	MANUAL TRANSFER SWITCH		
BSCW	BARE STRANDED COPPER WIRE	NEC	NATIONAL ELECTRIC CODE		
BTCW	BARE TINNED COPPER WIRE	NID	NETWORK INTERFACE DEVICE		
C	CONDUIT	NV	NETWORK VISION		
CAB	CABINET	O/H	OVERHEAD		
CE	CONCRETE ENCASED	PCS	PERSONAL COMMUNICATION SERVIICES		
CGB	COLLECTOR GROUND BAR	PPC	POWER PROTECTION CABINET		
CKT	CIRCUIT	PRC	PRIMARY RADIO CABINET		
COVP	CAPACITOR OVERVOLTAGE PROTECTION	PVC	POLYVINYL CHLORIDE		
DB	DIRECT BURIED	PWR	POWER		
DEI	DIGITAL EXPANSION INTERFACE	RGS	RIGID GALVANIZED STEEL		
DISC	DISCONNECT	RRH	REMOTE RADIO HEAD		
EMT	ELECTRICAL METALLIC TUBING	RRU	REMOTE RADIO UNIT		
GFCI	GROUND FAULT CURRENT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE		
G	GROUND	S/S	STAINLESS STEEL		
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL		

ELECTRICAL LEGEND

SYMBOLS:

— — —	CONDUIT – CONCEALED
———	CONDUIT – EXPOSED
G	CONDUIT AND WIRE. FULL HASH MARK – CIRCUIT WIRE. HALF HASH MARK – BOND WIRE. (G)
BTS–2,4	HOME RUN TO PANEL. E.G. PANEL BTS CIRCUITS 2 & 4.
	20 AMP 125V DUPLEX RECEPTACLE HUBBELL #5362 I
	20 AMP 125V QUADPLEX RECEPTACLE HUBBELL #5362 I
GFI	20 AMP 125V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE HUBBELL #GF5362 I
F	FUSED DISCONNECT SWITCH
WP	WEATHERPROOF
UON	UNLESS OTHERWISE NOTED
M 2	20 AMP 120/277V SINGLE POLE SWITCH. HUBBELL #HBL 1221 I, +48" M = MOTOR/ HORSEPOWER RATED 2 = 2 POLE
30–2	CURRENT CARRYING CAPACITY AND NO. OF POLES OF IDENTIFIED DEVICE. EXAMPLE 30 AMP 2 POLES
Sab	LIGHTING SWITCH 20 AMP, 120/277V, SINGLE POLE, HUBBELL #HBL 1221, +48"
Soff	OVERRIDE OFF LIGHTING SWITCH

NOTES:

1. SMOKE DETECTOR TO SHUT DOWN A/C UNITS WHEN ACTIVATED
2. ALL INTERIOR RECEPTACLES AND SWITCHES SHALL BE SURFACE MOUNTED
3. LABEL ALL BOXES AND CIRCUITS AS REQUIRED BY **AT&T**
4. AC UNITS WILL NOT OPERATE AT THE SAME TIME

ISSUED FOR:
MT. ROSE WEDGE

GREAT FALLS LOOP
RENO, NV 89511

at&t
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

AT&T SITE NO:	CVL00257
PROJECT NO:	10151387
DRAWN BY:	SD
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
H	06/21/2021	100% ZD'S REVISED	WD
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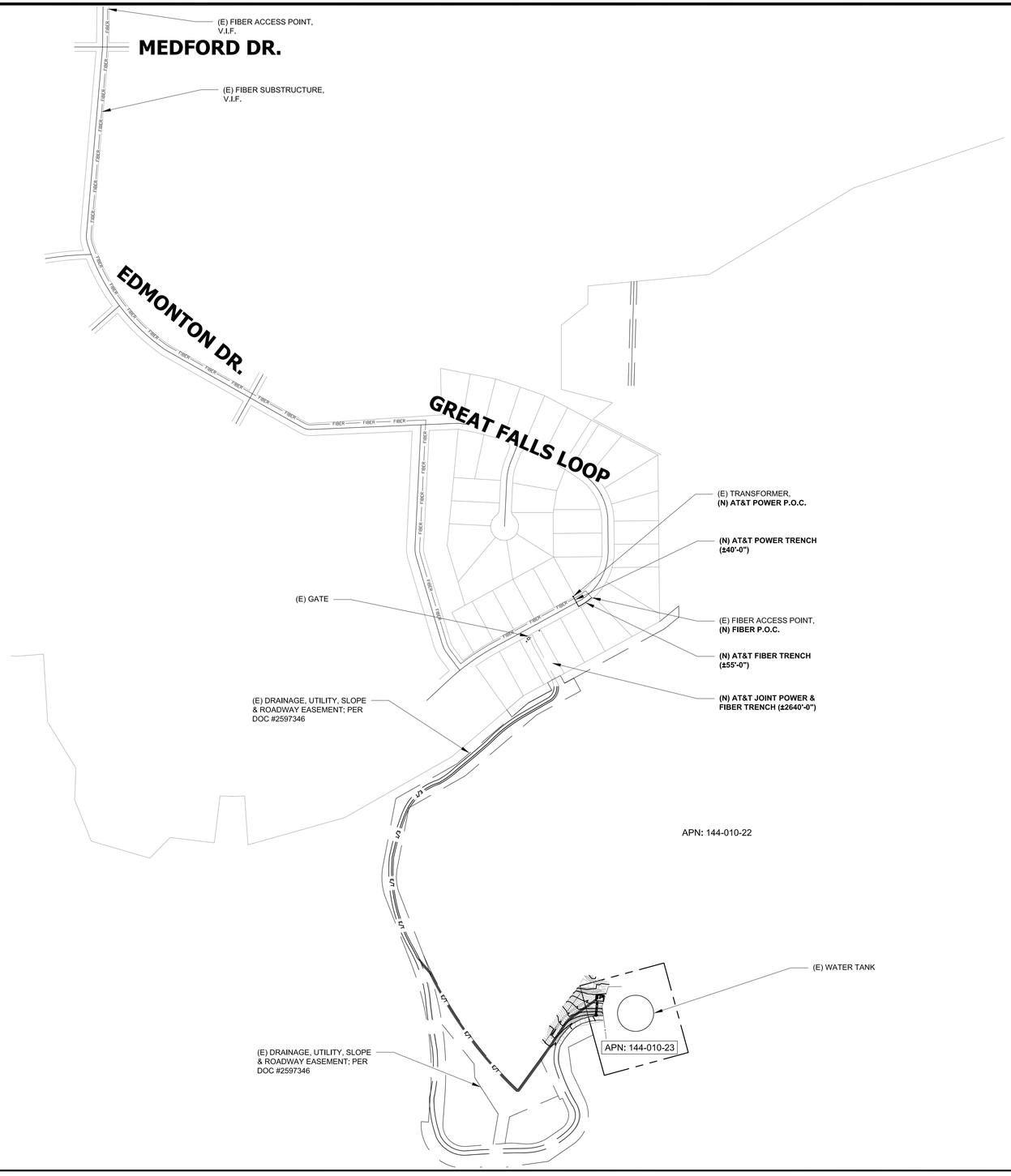
B	03/05/2021	100% ZD'S	SD
A	02/09/2021	90% ZD'S FOR REVIEW	SD

LICENSOR:

SHEET TITLE
ELECTRICAL NOTES, ABBREVIATIONS & ELECTRICAL LEGEND

SHEET NUMBER
E-1



UTILITY SERVICE PLAN

24"x36" SCALE: 1" = 200'-0"
11"x17" SCALE: 1" = 400'-0"

0" 100' 200' 400'

1

ISSUED FOR:
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A	02/09/2021	90% ZD'S FOR REVIEW	SD

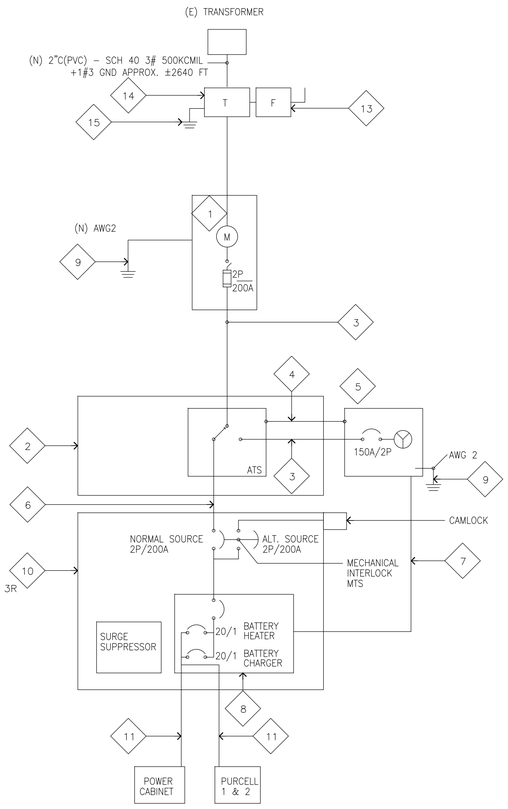
LICENSOR:

SHEET TITLE
UTILITY ROUTE PLAN

SHEET NUMBER
E-2

KEY NOTES:

1. (N) AT&T METER/MAIN PEDESTAL, 120/240V, 1ø, 3W, 200A, 22KAIC NEMA 3R
2. (N) AT&T GENERATOR AUTOMATIC TRANSFER SWITCH, MOUNTED TO AT&T H-FRAME, NEMA 3R, 200 AMP, 2 POLE, 120/240 V, 2P, 22 KAIC
3. 2"C (PVC/RGS) 3 #3/0 +1 #6 GND., CU, THHN/THWN APPROX. 10 FT.
4. 1"C (PVC/EMT) 10 #14 FOR ENGINE START & CONTROL. REFER TO A.T.S. AND GENERATOR SPECS. FOR WIRING CONNECTION.
5. GENERATOR, 120/240V, 1ø, 30 KW, FURNISHED W/ OVERLOAD PROTECTION. 150 AMP/2 POLE OUTPUT BREAKER
6. 2"C (EMT) 3 #3/0 +1 #6 GND, CU, THHN/THWN
7. 1"C (PVC/EMT) 3 #12 +1 #12 GND., CU, THHN/THWN FOR HEATER & BATTERY CHARGER.
8. PROVIDE 2X20 A/IP BREAKERS, GENERATOR HEATER AND BATTERY CHARGER
9. #4 CU GROUND & ROD
10. NEW 200A, 120/240V, 1ø, 3W GENERATOR CAM-LOK INTERSECT POWER PANEL
11. 2" C-4 #10 + 1 #8 GND, CU, THHN/THWN
12. STEP-UP & STEP-DOWN TRANSFORMERS
13. 100A/2P FUSED HEAVY DUTY DISCONNECT SWITCH, NEMA 3R
14. (N) STEP-DOWN 50KVA, 460V-120/240V, 1ø, 3 WIRE, NEMA 3R SQUARE D/SCHNEIDER # EE 50 S3H ELECTRICAL TRANSFORMER & GROUND
15. #4 CU GROUND & ROD



ELECTRICAL SINGLE LINE DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

VOLTS: 120/240 FEED: 200A MAIN: MTS BREAKER LOCATION: INTERIOR NEMA 3R
PHASE: 1ø BUSS: 200A RATING: 22,000 AIC
WIRE: 3 MOUNTING: INTERSECT
PANEL: A

LOAD	øA	øB	LTG	REC	BRKR	CKT		CKT	BRKR	REC	LTG	øA	øB	
PURCELL #1 FLX16-2520	2250				30	1		2	30			2250		PURCELL #2 FLX16-2520
		2250			2	3		4	2				2250	
POWER FAIL MONITOR	400				20	5		6	1			–		SPACE
		400			1	7		8	1				–	SPACE
RECEPTACLES/TELCO	400				20	9		10	20			400		RECEPTACLES
					1				1					
NEW POWER RACK-1 NETSURE 512		2250			30	11		12					–	SPACE
	2250				2	13		14				–		
SPACE		–				15		16	20				–	GEN. HEATER
	–					17		18	20			–		GEN. BATTERY CHARGER
SPACE		–				19		20	20				–	SPARE
SPACE	–					21		22	1			–		SPACE
SPACE		–			1	23		24	1				–	SPACE
SPACE	–				1	25		26	1			–		SPACE
SPACE		–			1	27		28	1				–	SPACE
SPACE	–				1	29		30	1			–		SPACE
SPACE		–			1	31		32	1				–	SPACE
SPACE	–				1	33		34	1			–		SPACE
SPACE		–			1	35		36	1				–	SPACE
TRANSIENT VOLTAGE SURGE PROTECTION TVSS	–				60	37		38	1			–		SPACE
		–			2	39		40	1				–	SPACE
VA SUB TOTALS	5300	4900										2650	2250	VA SUB TOTALS
VA/PHASE:						PHASE A: 7950							PHASE B: 7150	
AMPS/PHASE:						PHASE A: 66							PHASE B: 60	

CIRCUIT BREAKERS 22,000 A.I.C. TOTAL VA: 15100 / 240V = 63 AMPS

NOTE:

1. MULTIPLE CIRCUITS COMMON NEUTRAL REQUIRE LISTED CIRCUIT BREAKER HANDLE TIES

PANEL SCHEDULE

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ISSUED FOR:

MT. ROSE WEDGE

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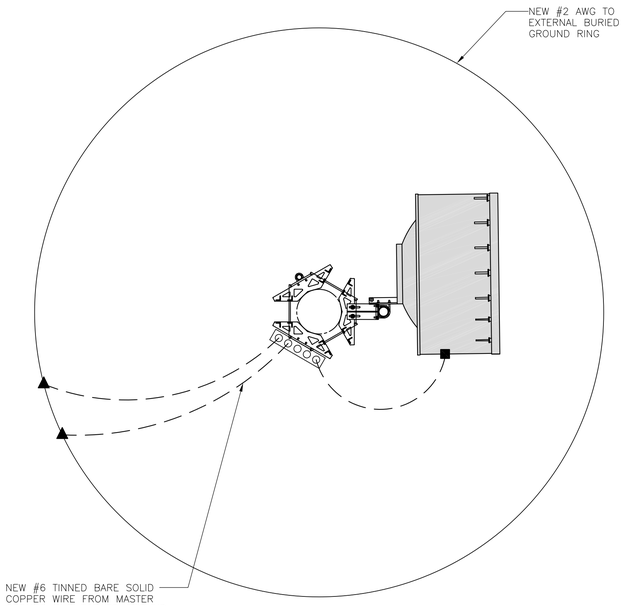
LICENSOR:

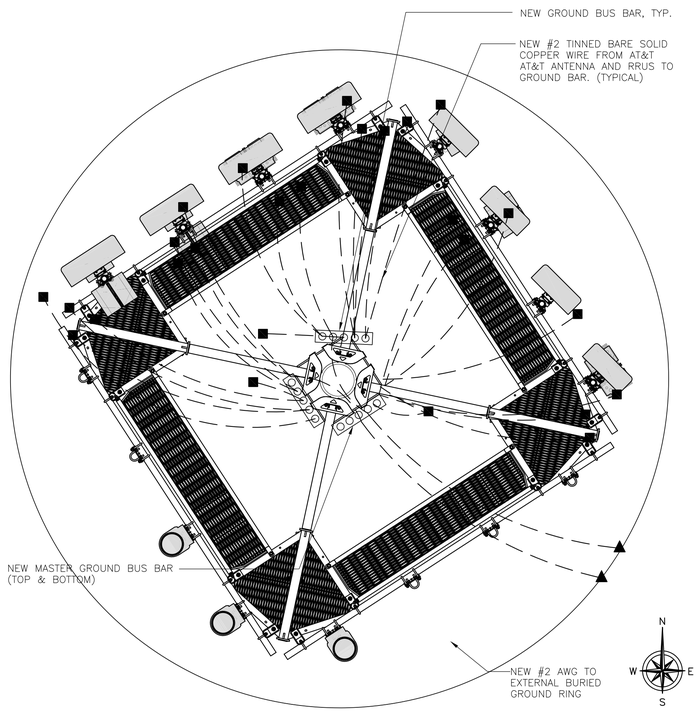
SHEET TITLE

SINGLE LINE DIAGRAM & PANEL SCHEDULE

SHEET NUMBER

E-3



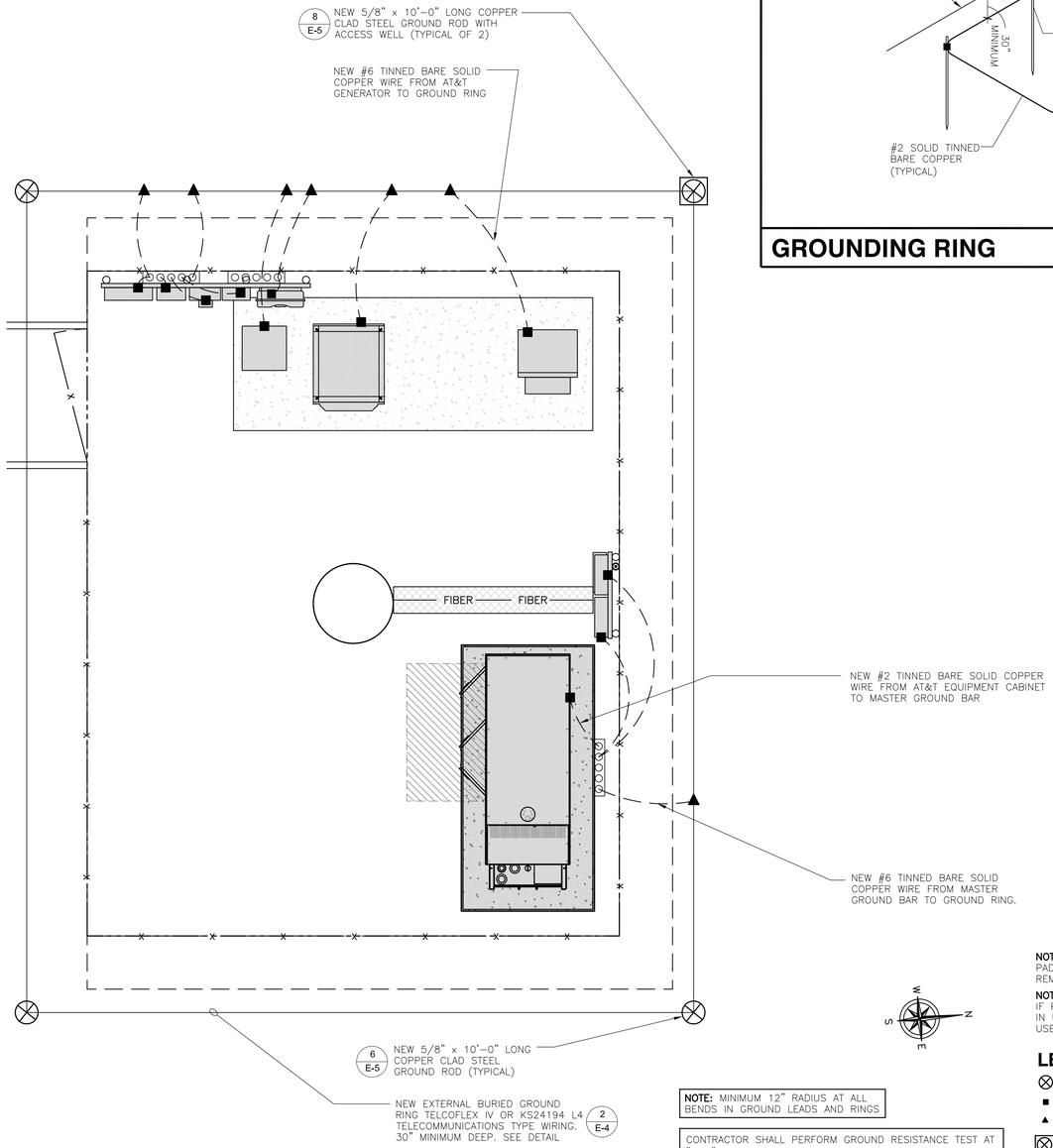


ANTENNA GROUNDING PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

0" 1' 2' 4'

3

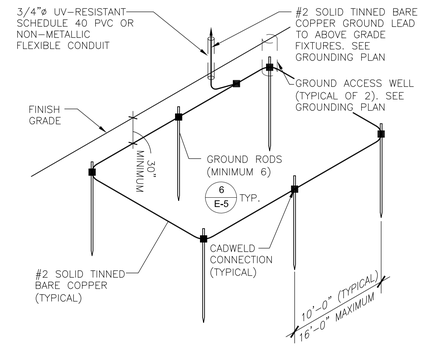


EQUIPMENT GROUNDING PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

0" 1' 2' 4'

1



GROUNDING RING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

NOTE: MINIMUM 12" RADIUS AT ALL BENDS IN GROUND LEADS AND RINGS

CONTRACTOR SHALL PERFORM GROUND RESISTANCE TEST AT "MGB" AND PERFORM FALL OF POTENTIAL TEST PER IEEE STANDARD NO. 81; SECTION 9.04 ON THE MAIN GROUNDING ELECTRODE TO VERIFY THAT RESISTANCE SHALL NOT EXCEED 5 OHMS AND SHALL SUBMIT AN INDEPENDENT TESTING REPORT INDICATING RESISTANCE VALUES OBTAINED.

NOTE:
PAD REBAR AND OTHER CARRIER EQUIPMENT PAD REMOVED FOR CLARITY

NOTE:
IF POSSIBLE ENCAPSULATE GROUND IN UTILITY PAD. IF NOT POSSIBLE USE CONDUIT ABOVE PAD.

LEGEND:

- ⊗ GROUND ROD
- ■ MECHANICAL GROUND CONNECTION
- ▲ CADWELD
- ⊠ GROUND ACCESS WELL. CIRCULAR CONCRETE BOX, 9"ø x 12" HIGH WITH CONCRETE COVER – CAST LETTERS "GR ROD" IN COVER. (2 TOTAL)
- — — — — — GROUND CONDUCTOR

ISSUED FOR:

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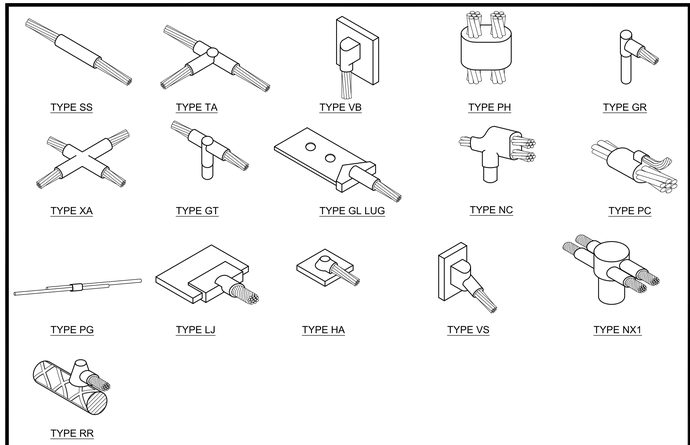
LICENSOR:

SHEET TITLE

GROUNDING PLAN

SHEET NUMBER

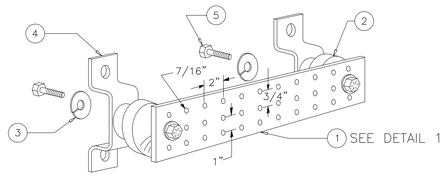
E-4



TYPICAL CADWELD TYPES

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7



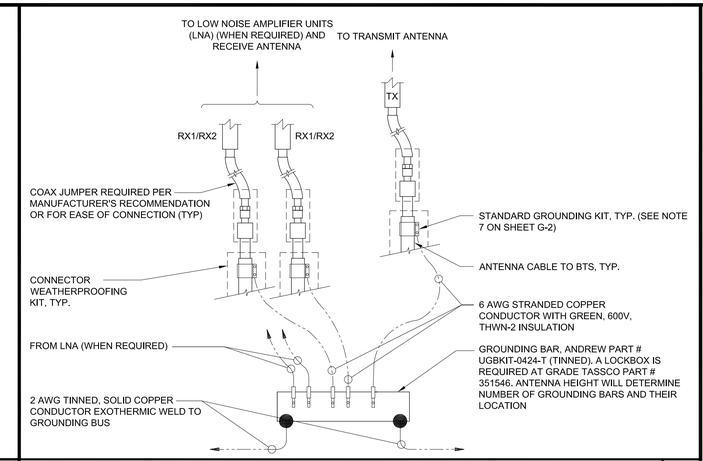
LEGEND:

1. COPPER GROUND BAR, 1/4"X 4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
4. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
5. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS

EXISTING GROUNDING BAR DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

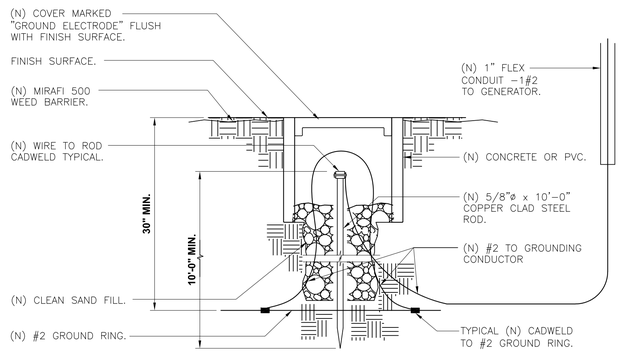


GROUNDING BAR CONNECTION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

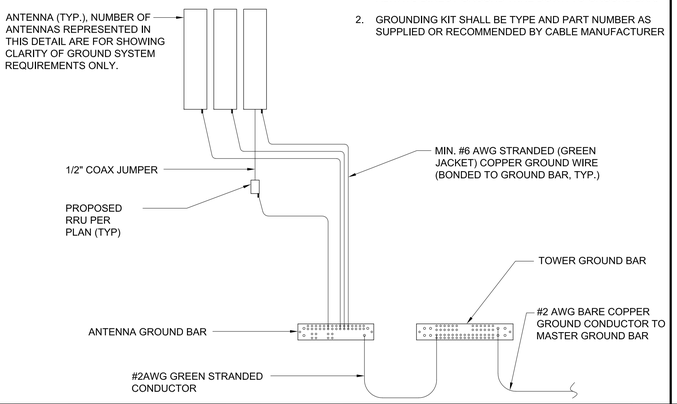
NOTE:
INSPECTION HAND HOLE MAY BE CONCRETE OR PVC AND SHALL BE A MIN. OF 8" IN WIDTH/DIAMETER.



NEW MAIN GROUND TEST WELL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8



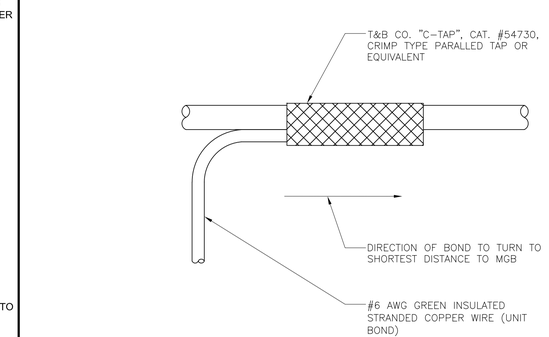
NOTES:

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

ANTENNA GROUNDING PLAN

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

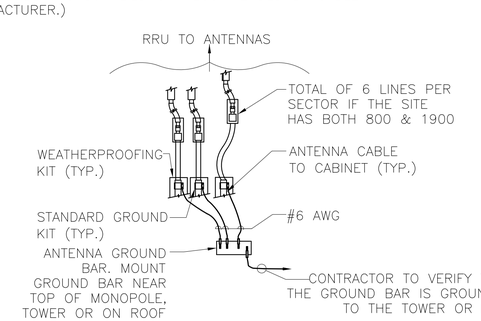


GROUNDING WIRE CONNECTION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

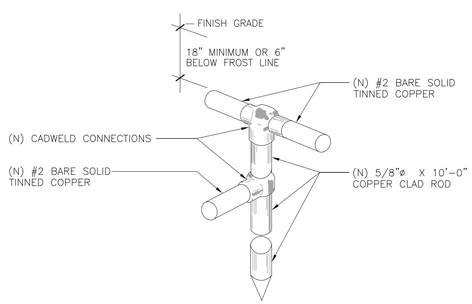
NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE ANDREWS. (TYPE & PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)



TYPICAL COAX GROUNDING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

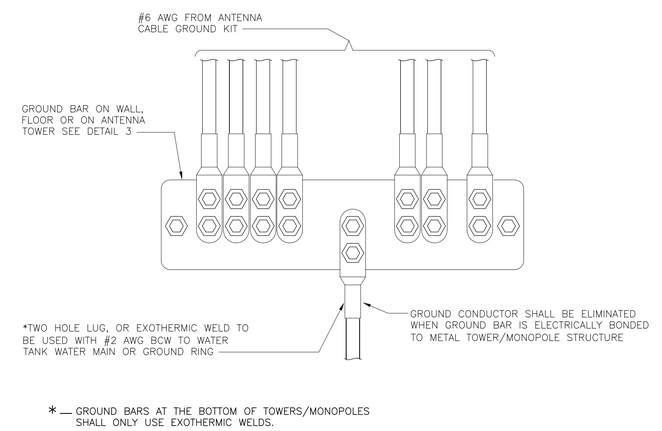
9



GROUND RING GROUND ROD

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6



* — GROUND BARS AT THE BOTTOM OF TOWERS/MONOPOLES SHALL ONLY USE EXOTHERMIC WELDS.

WIRE TO GROUND BAR CONNECTION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

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LICENSOR:

SHEET TITLE
ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER
E-5