

Epic Wireless Open Space Easement

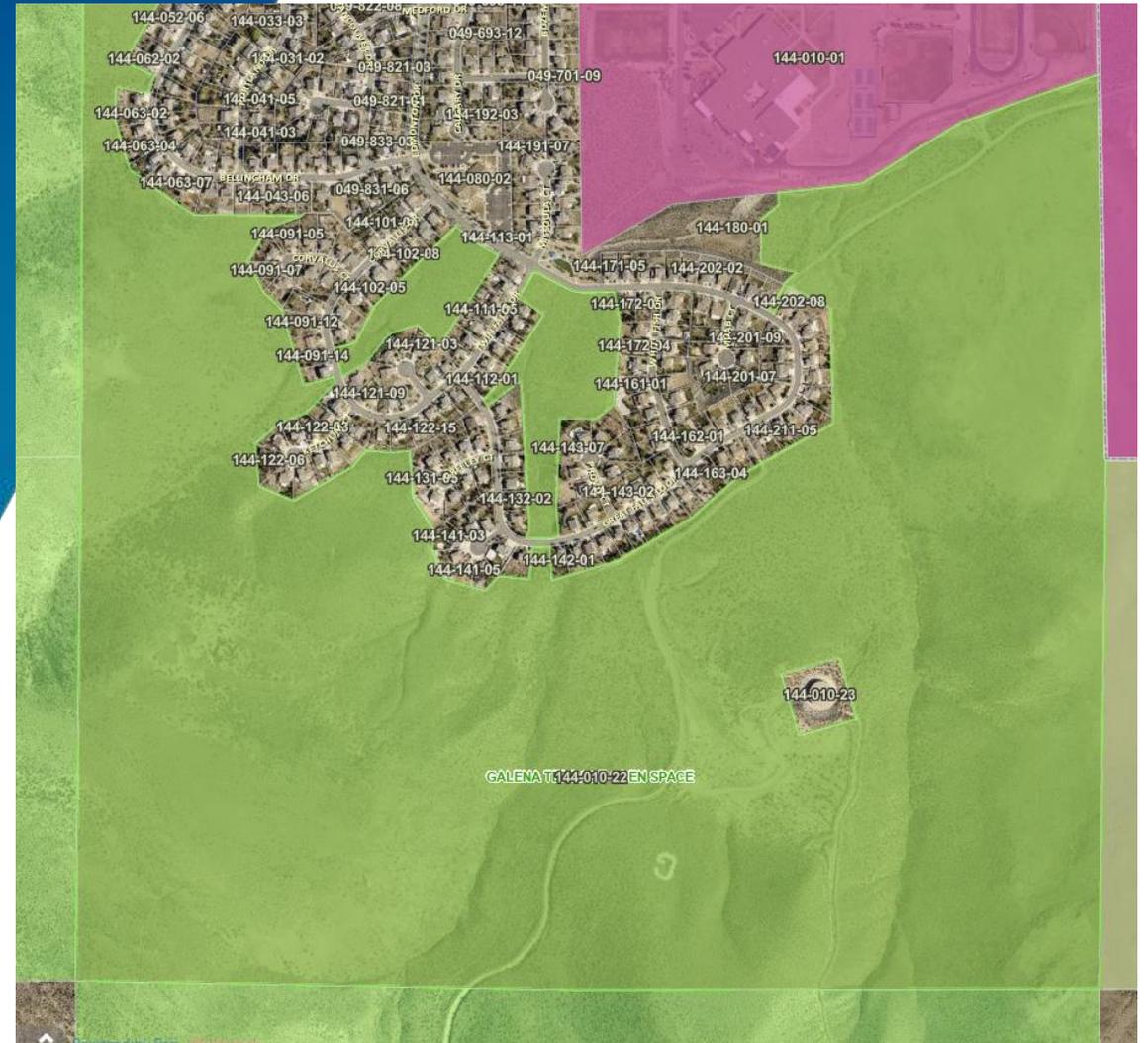


Washoe County Open Space and Regional Parks Commission

July 26, 2023

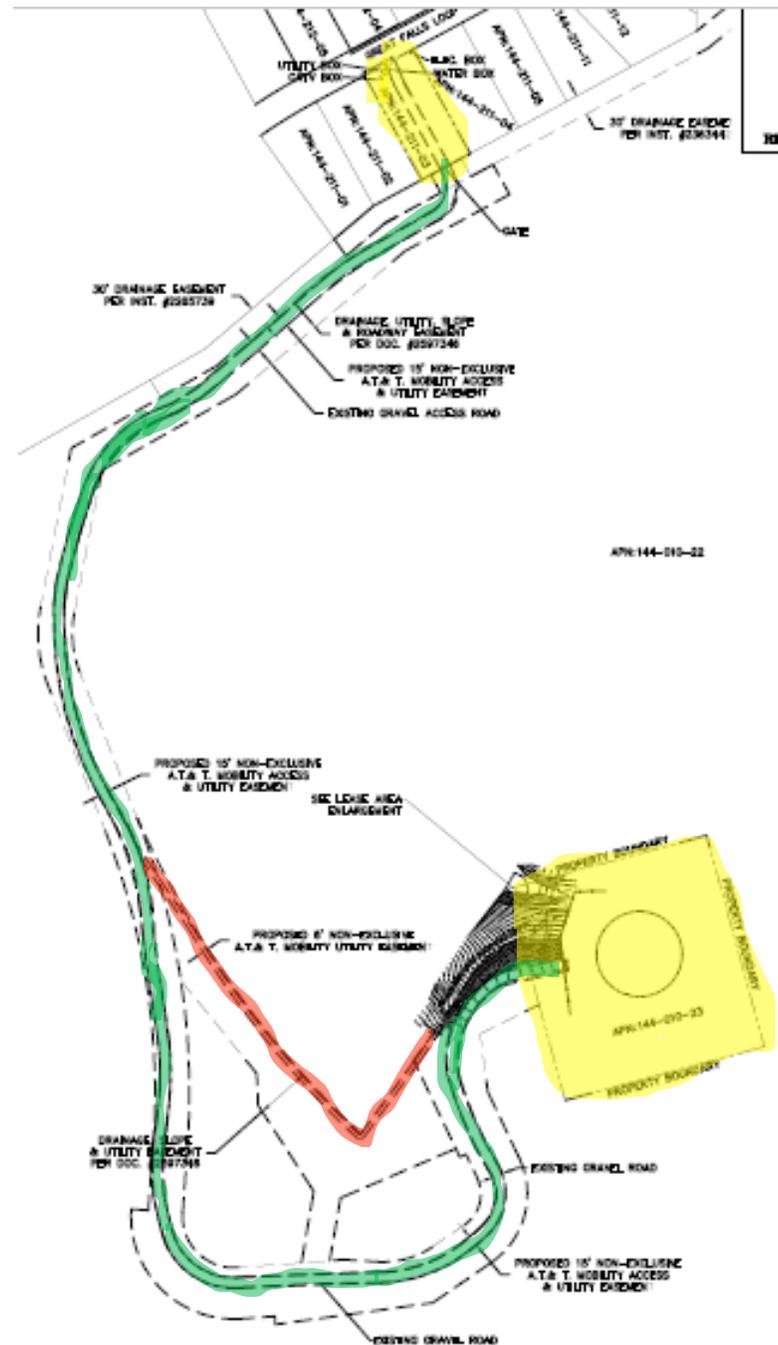
Location & Purpose

- Epic Wireless proposes to install 58-foot Monopole on TMWA parcel, APN 144-010-23
- TMWA parcel is surrounded by Galena Terrace Open Space, APN 144-010-122
- Site is only accessible from existing gravel road used by TMWA to access water tank
- Epic Wireless requires an Access and Public Utility Easement for project prior to permit submittal to CSD



Easement Request

- Galena Terrace Open Space, APN 144-010-122
 - Temporary Construction Easement ±48,865 sf
 - 15-foot Public Access and Utility Easement ±48,865 sf
 - 6-foot Utility Easement
- dkjfh





Background and Request

- Non-exclusive ±60 square feet Access and Staff Gage Easement on APN 049-752-08
- Support the improvement of an existing stream gage formally operated by Truckee Meadows Water Authority (TWMA)
- Purpose: USGS will be taking over operation of the existing stream gage in a joint funding agreement with TWMA to collect and provide stream-flow information

Impacts

- 1 day of instillation
- Utilize existing staff gage and existing pole to minimize disturbance
- Additions:
 - small metal box for housing instrumentation
 - An additional post
 - Galvanized pipe with pressure sensor connecting from gage housing to Whites Creek
 - Staff and Crest gages

Example of Proposed Gage Instrumentation



Mitigation

- Painted Trail, south of Whites Creek will be used to access the site.
- Left bank was considered but gage would be visible from the Lower Whites Creek Trail and would require clearing of vegetation.
- By installing gage on right bank, existing structures can be utilized in the installation to minimize disturbance and is not visible from Lower Whites Creek Trail.
- Should funding for the gage discontinue, equipment will be removed from the site.

Possible Motion:

- Should the Commission agree with the recommendation a possible motion would be: “Move to recommend that the Board of County Commissioners approve a Grant of Easement granting a permanent, non-exclusive easement (totaling ±60 square feet) in the Southwest Truckee Meadows Planning Area, for the placement of stream gage housing instrumentation to support the existing stream gage located on Whites Creek.

Thank you



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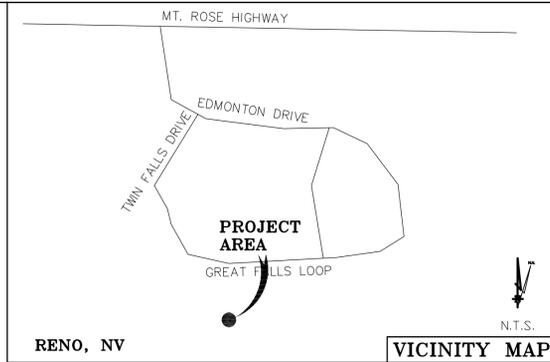
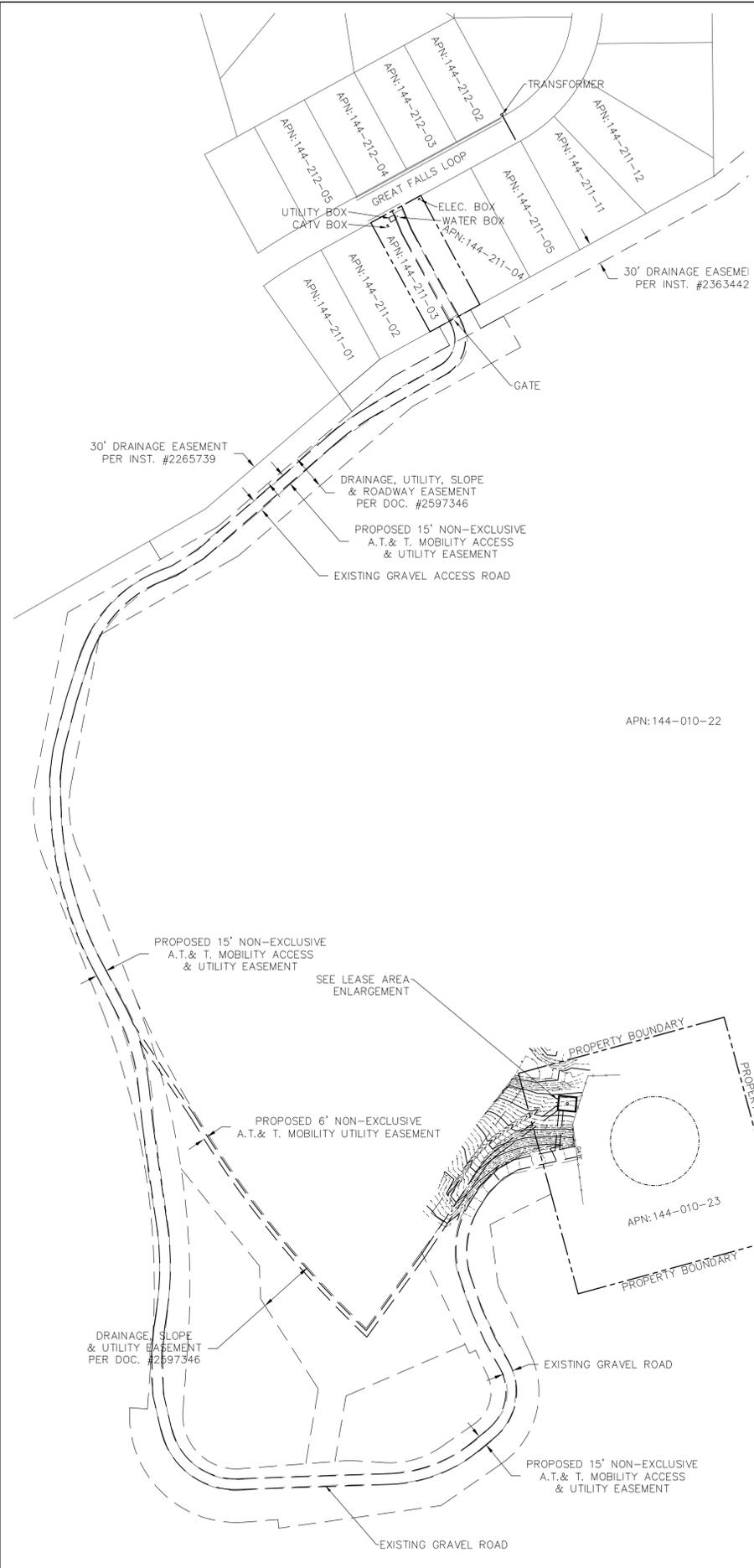
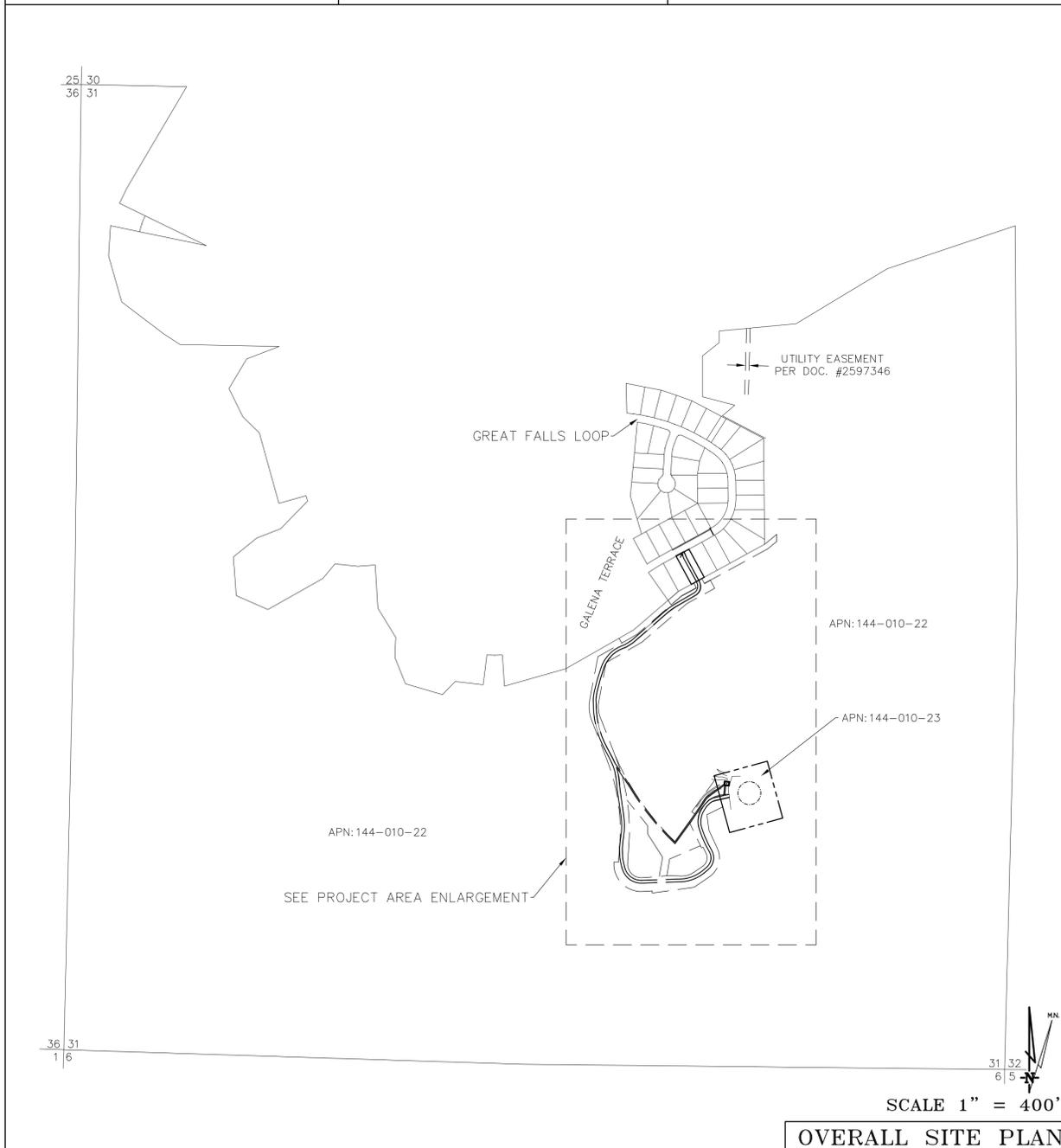
DATE OF SURVEY: 01-12-21
 SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803
 LOCATED IN THE COUNTY OF WASHOE, STATE OF NEVADA
 BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.
 ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL.

Geil Engineering
 Engineering * Surveying * Planning
 1226 High Street
 Auburn, California 95603-5015
 Phone: (530) 885-0426 * Fax: (530) 823-1309
 A.T. & T. Mobility
 Project No./Name: CVL00257 / Mt. Rose Wedge
 Project Site Location: Great Falls Loop
 Reno, NV 89511
 Washoe County
 Date of Observation: 01-12-21
 Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.
 Type of Antenna Mount: Proposed Monopole
 Coordinates (Tower)
 Latitude: N 39° 22' 45.38" (NAD83) N 39° 22' 45.70" (NAD27)
 Longitude: W 119° 46' 35.59" (NAD83) W 119° 46' 31.92" (NAD27)
 ELEVATION of Ground at Structure (NAVD88) 5278' AMSL
 CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.
 Kenneth D. Geil Nevada PLS 13385

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

N.G.V.D. 1929 CORRECTION: SUBTRACT 3.65' FROM ELEVATIONS SHOWN.
 CONTOUR INTERVAL: 1'
 CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.
 ASSESSOR'S PARCEL NUMBER: 144-010-22
 OWNER(S): TRUCKEE MEADOWS WATER AUTHORITY
 PO BOX 30013
 RENO, NV 89520

APN: 144-010-22
 APN: 144-010-23



Lease Area Description
 All that certain lease area being a portion of that certain Parcel 2 as is on that certain Parcel Map filed for record as Parcel Map No. 3513, Washoe County Records, located in the City of Reno, County of Washoe, State of Nevada, and being more particularly described as follows:

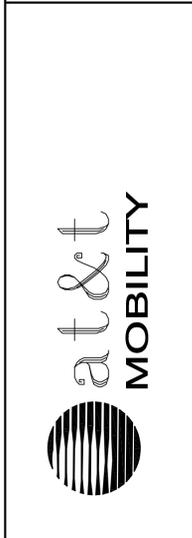
Commencing at a 5/8" bar and cap set at the Northwest corner of said Parcel 2 as is shown on the above referenced map, from which a similar monument bears North 74°46'56" East 300.00 feet; thence from said point of commencement South 61°16'46" East 65.17 feet to the True Point of Beginning; thence from said True Point of Beginning South 84°38'54" East 25.00 feet; thence South 05°21'06" West 20.00 feet; thence North 84°38'54" West 25.00 feet; thence North 05°21'06" East 20.00 feet to the point of beginning.

Together with a non-exclusive easement for access and utility purposes of variable width, the centerline of which is described as follows: beginning at a point which bears South 84°38'54" East 4.67 feet from the Southwest corner of the above described lease area and running thence, at a width of six feet, South 05°21'06" West 63.93 feet; thence, at a width of fifteen feet, South 77°34'04" West 58.76 feet; thence South 60°32'47" West 24.68 feet; thence South 46°07'03" West 31.44 feet; thence South 32°02'41" West 27.74 feet; thence through a tangent curve to the left having a radius of 120.00 feet through an arc distance of 107.12 feet; thence tangent to the last curve South 19°05'57" East 45.48 feet; thence South 24°28'23" East 47.58 feet; thence South 29°47'00" East 39.01 feet; thence through a tangent curve to the right having a radius of 75.00 feet through an arc distance of 105.10 feet; thence tangent to the last curve South 50°30'33" West 30.02 feet; thence through a tangent curve to the right having a radius of 200.00 feet through an arc distance of 131.04 feet; thence tangent to the last curve South 88°02'53" West 214.43 feet; thence through a tangent curve to the right having a radius of 100.00 feet through an arc distance of 137.94 feet; thence tangent to the last curve North 12°55'14" West 49.82 feet; thence North 01°30'18" West 58.08 feet; thence North 05°09'49" East 35.47 feet; thence North 08°17'58" East 27.18 feet; thence through a tangent curve to the left having a radius of 400.00 feet through an arc distance of 114.95 feet; thence tangent to the last curve North 08°09'57" West 144.20 feet; thence North 05°53'37" West 53.80 feet; thence through a tangent curve to the left having a radius of 300.00 feet through an arc distance of 116.61 feet; thence tangent to the last curve North 28°09'49" West 65.56 feet; thence through a tangent curve to the right having a radius of 500.00 feet through an arc distance of 232.84 feet; thence tangent to the last curve North 01°28'55" West 42.88 feet; thence North 07°25'46" East 36.22 feet; thence North 14°29'16" East 72.90 feet; thence North 17°30'05" East 68.96 feet; thence North 24°01'54" East 15.23 feet; thence through a tangent curve to the right having a radius of 180.00 feet through an arc distance of 138.98 feet; thence tangent to the last curve North 68°16'10" East 21.96 feet; thence North 58°14'19" East 43.76 feet; thence North 49°01'55" East 246.44 feet; thence through a tangent curve to the right having a radius of 350.00 feet through an arc distance of 68.24 feet; thence tangent to the last curve North 60°12'11" East 113.59 feet; thence through a tangent curve to the left having a radius of 50.00 feet through an arc distance of 77.51 feet; thence tangent to the last curve North 28°37'05" West 144.87 feet; thence North 22°41'00" West 35.02 feet more or less to the public right of way more commonly known as Great Falls Loop.

Also together with a non-exclusive easement for utility purposes six feet in width, the centerline of which is described as follows: beginning at a point which bears North 05°21'06" East 3.29 feet from the Southwest corner of the above described lease area and running thence South 53°54'48" West 103.66 feet; thence through a tangent curve to the right having a radius of 100.00 feet through an arc distance of 34.79 feet; thence tangent to the last curve South 33°58'44" West 143.54 feet; thence South 36°03'54" West 138.42 feet; thence through a non-tangent curve, concave to the Northeast, having a radius of 1449.34 feet, the chord of which bears North 38°47'35" West 391.26 feet; thence tangent to the last curve North 33°55'01" West 183.60 feet to the above described access and utility easement centerline.

DEPT	APPROVED	DATE
ARC		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
 ENGINEERING * SURVEYING * PLANNING
 1226 HIGH STREET
 AUBURN, CALIFORNIA 95603
 Phone: (530) 885-0426
 Fax: (530) 823-1309



CVL00257
MT. ROSE WEDGE
GREAT FALLS LOOP
RENO, NV 89511
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DRAWING SUBMITTAL
REV 01-13-21	N. RONDE
REV 01-19-21	EASEMENTS ADDED
REV 03-05-21	LEASE AREA PLACED
REV	N. RONDE
REV	
REV	

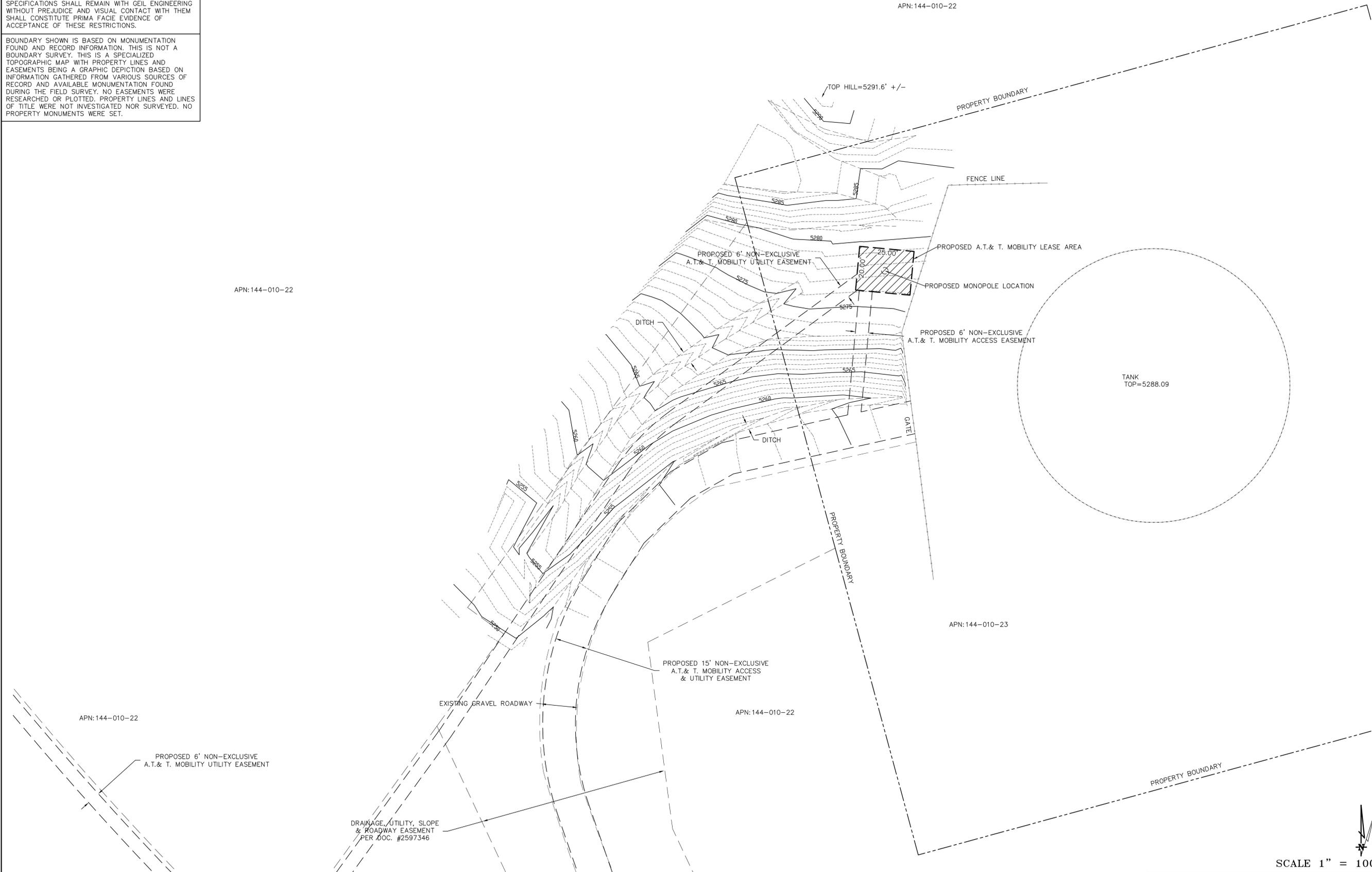
Sheet
C-1

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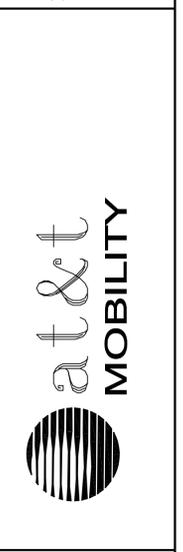
APN: 144-010-22

APN: 144-010-22



DEPT	APPROVED	DATE
A&C		
RE		
RF		
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EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
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 1226 HIGH STREET
 AUBURN, CALIFORNIA 95603
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 Fax: (530) 885-1109



CVL00257
MT. ROSE WEDGE
 GREAT FALLS LOOP
 RENO, NV 89511
 PLOT PLAN AND
 SITE TOPOGRAPHY

Sheet

C-2

SCALE 1" = 100'

LEASE AREA ENLARGEMENT



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



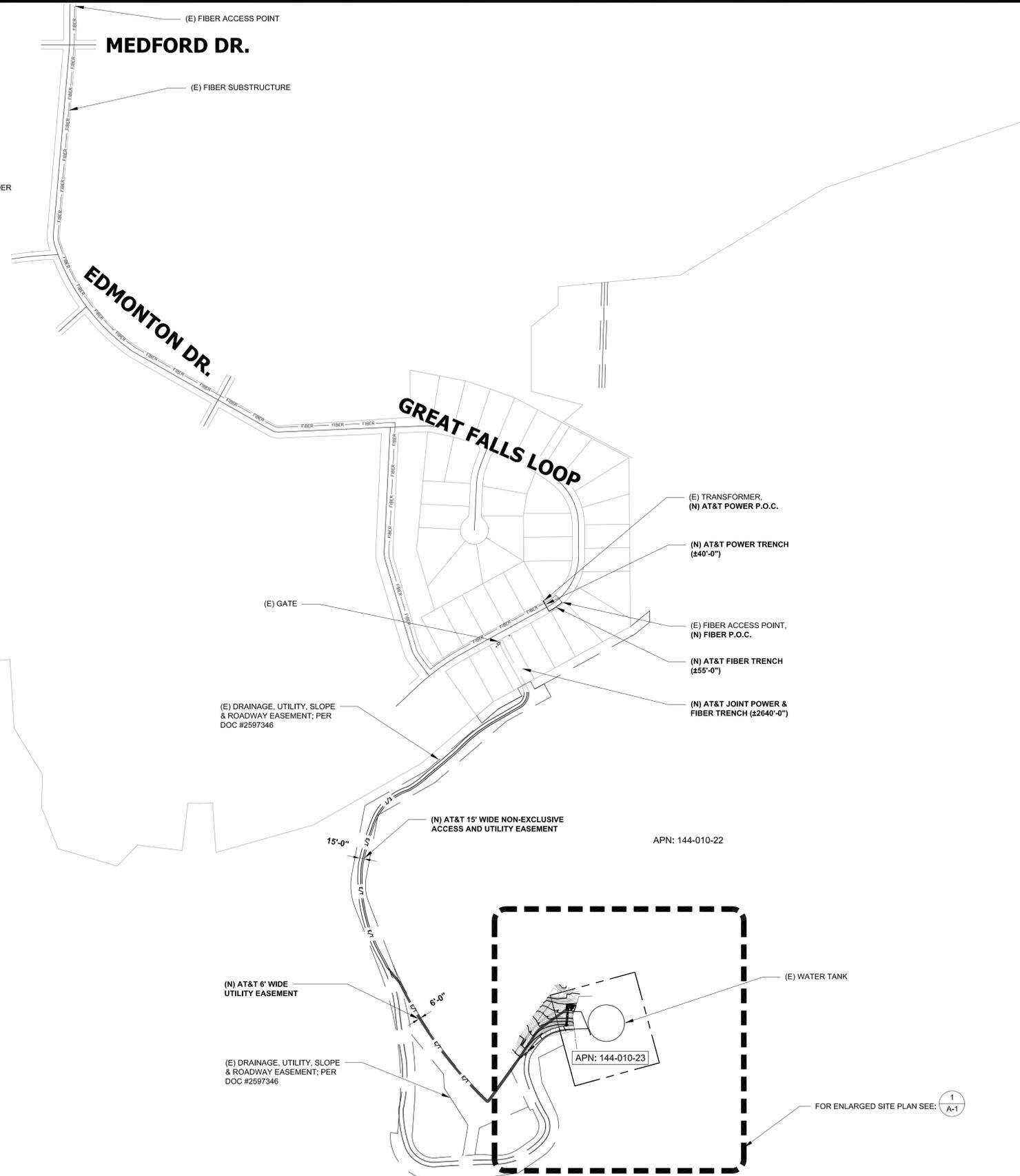
NOTES:

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 WEBSITE 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.

LEGEND

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



ISSUED FOR:
MT. ROSE WEDGE
4450 GREAT FALLS LOOP DR
RENO, NV 89511



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

REV	DATE	DESCRIPTION	BY
J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	BM
H	08/09/2021	100% ZDs REVISED	EW
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

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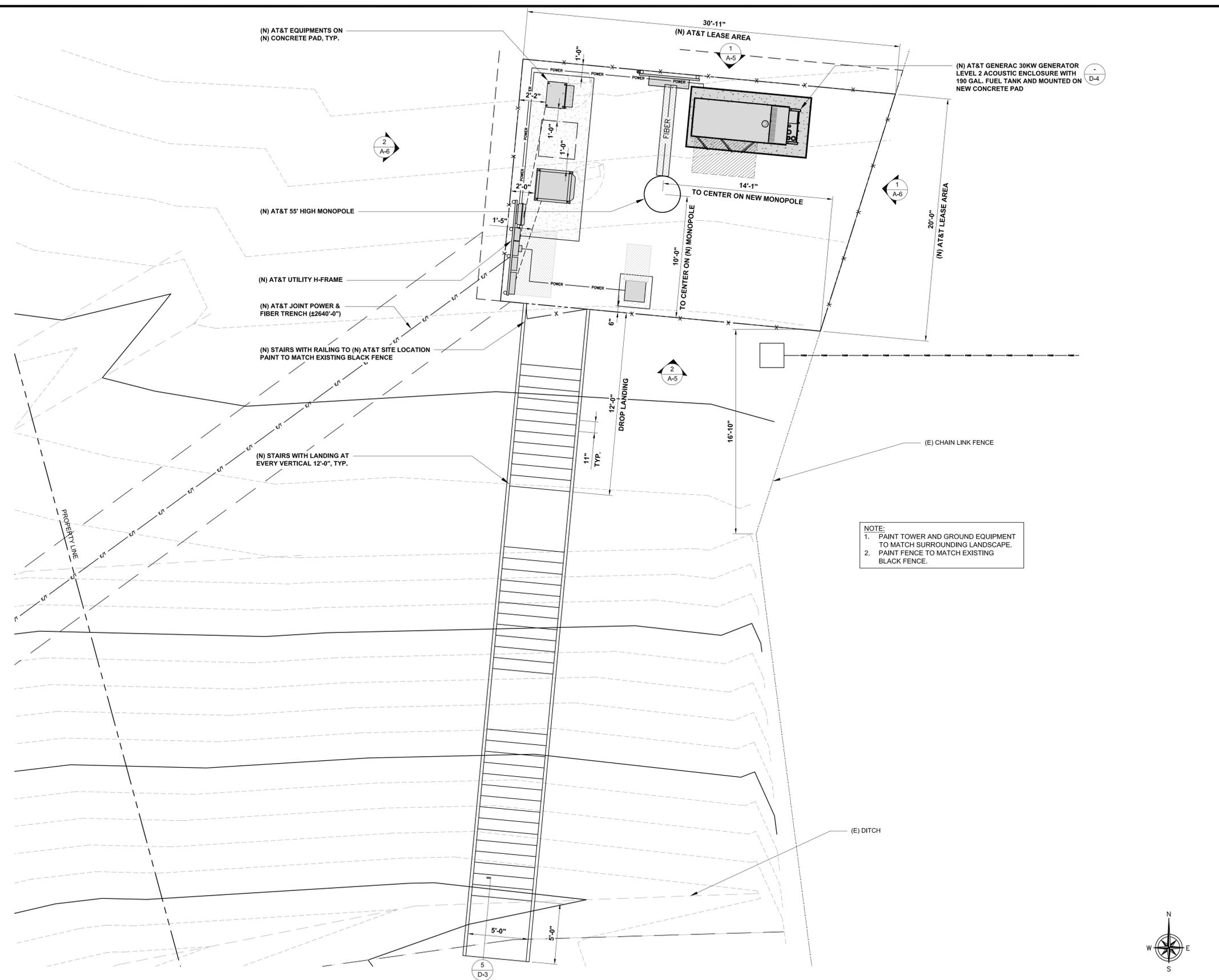
SHEET TITLE
SITE PLAN

SHEET NUMBER
A-0

SITE PLAN

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





ISSUED FOR:
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 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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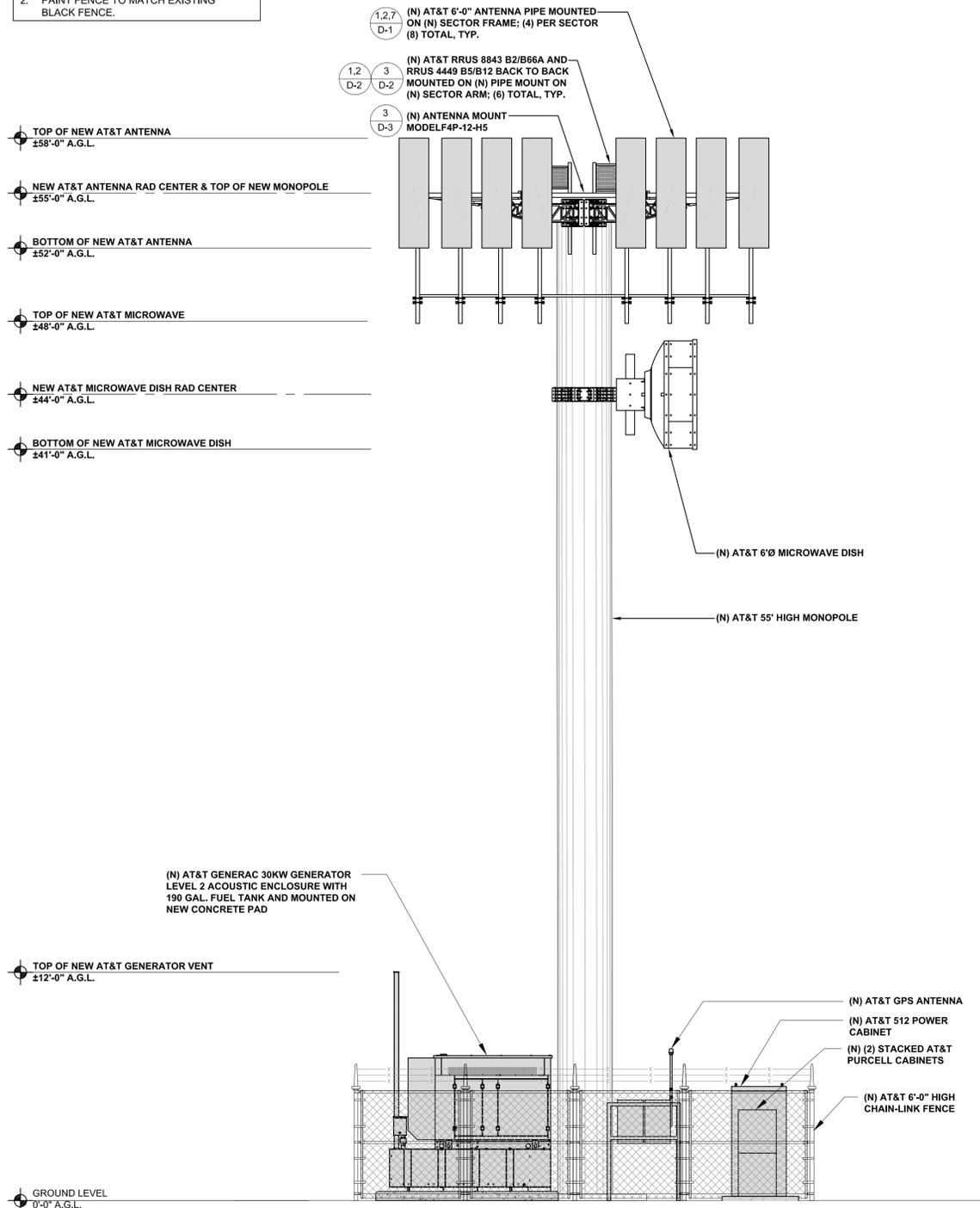
SHEET TITLE
LEASE AREA

SHEET NUMBER
A-2

LEASE AREA

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

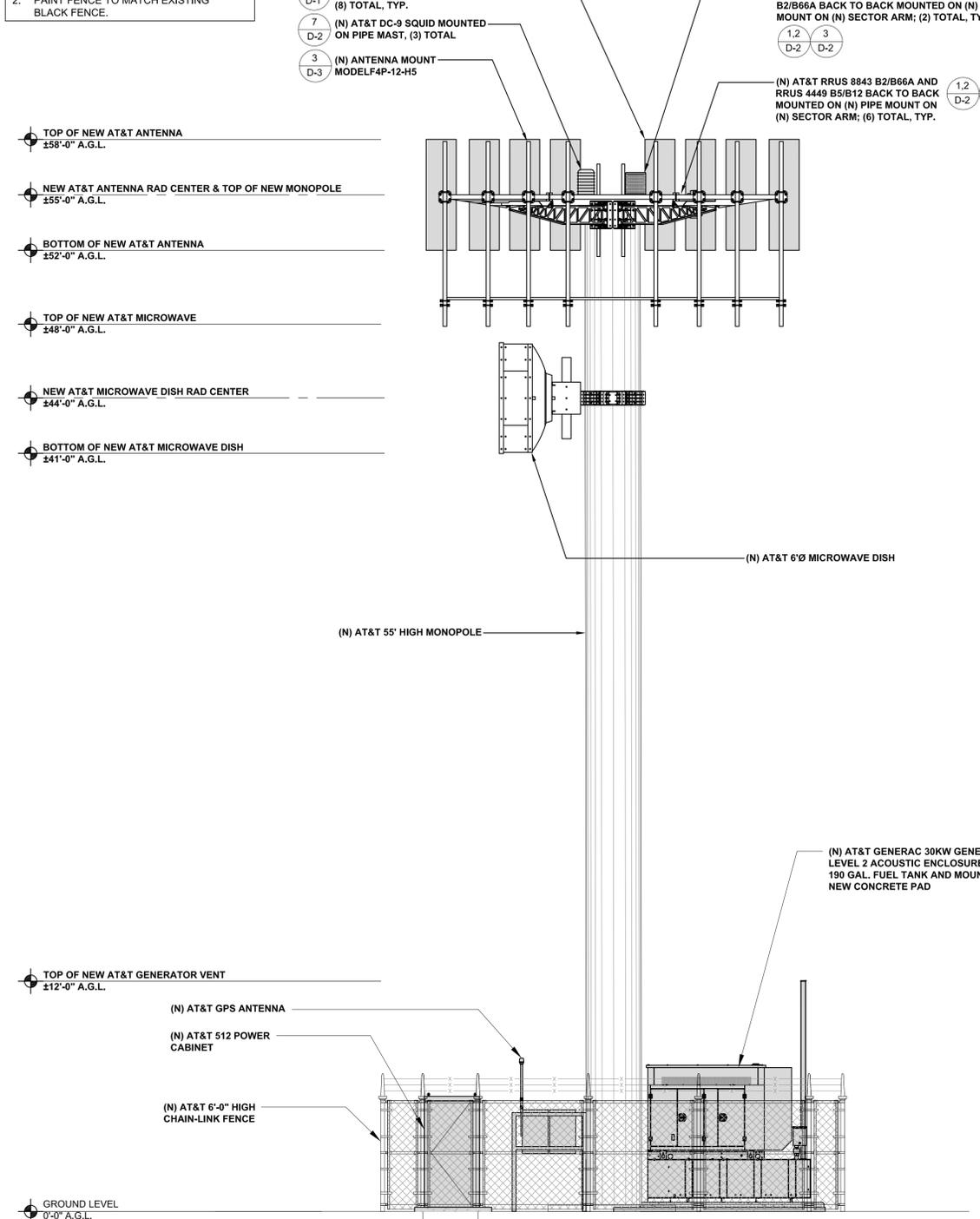
NOTE:
 1. PAINT TOWER AND GROUND EQUIPMENT TO MATCH SURROUNDING LANDSCAPE.
 2. PAINT FENCE TO MATCH EXISTING BLACK FENCE.



NORTH ELEVATION

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

NOTE:
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 2. PAINT FENCE TO MATCH EXISTING BLACK FENCE.



SOUTH ELEVATION

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

ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

REV	DATE	DESCRIPTION	BY
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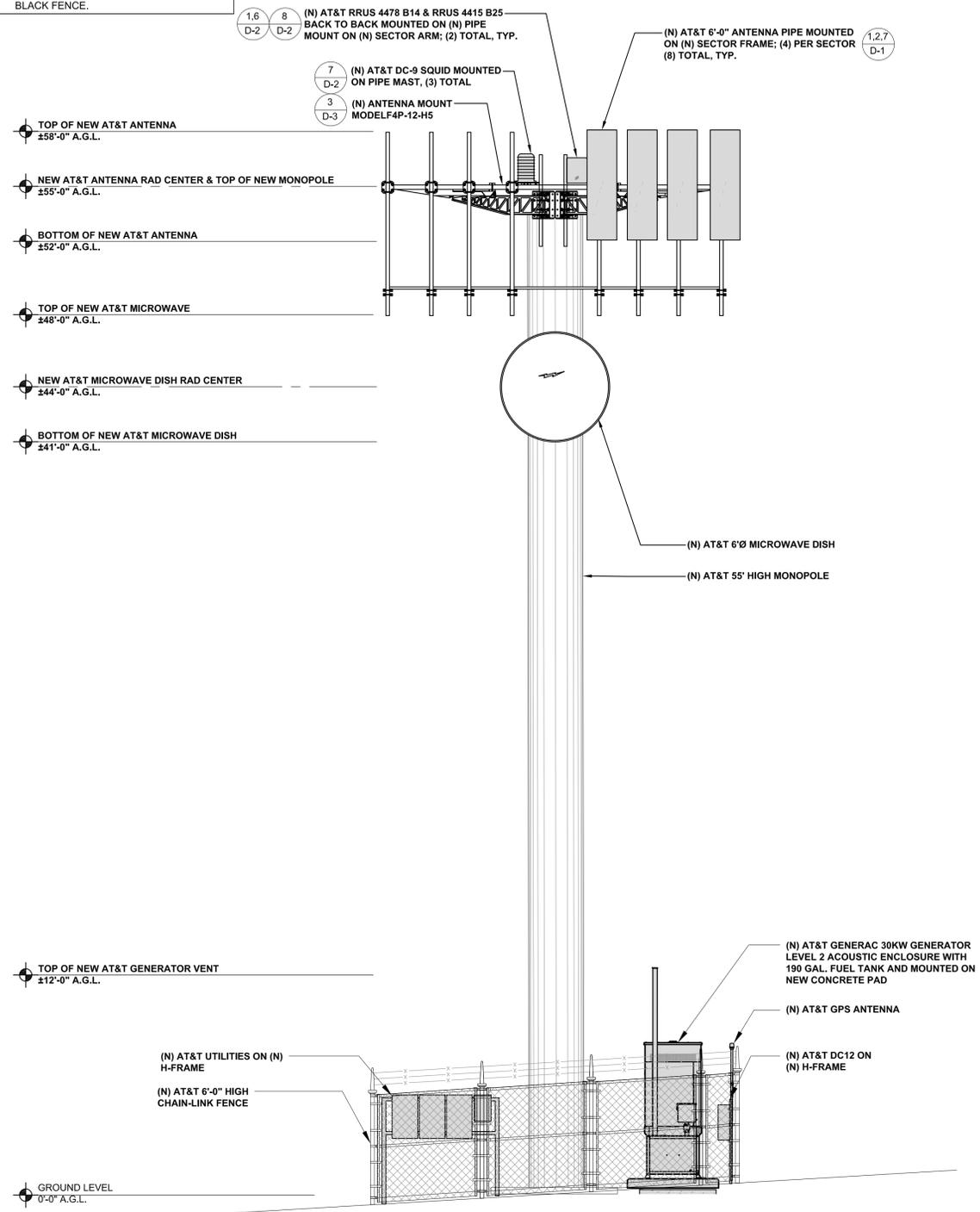
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SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5

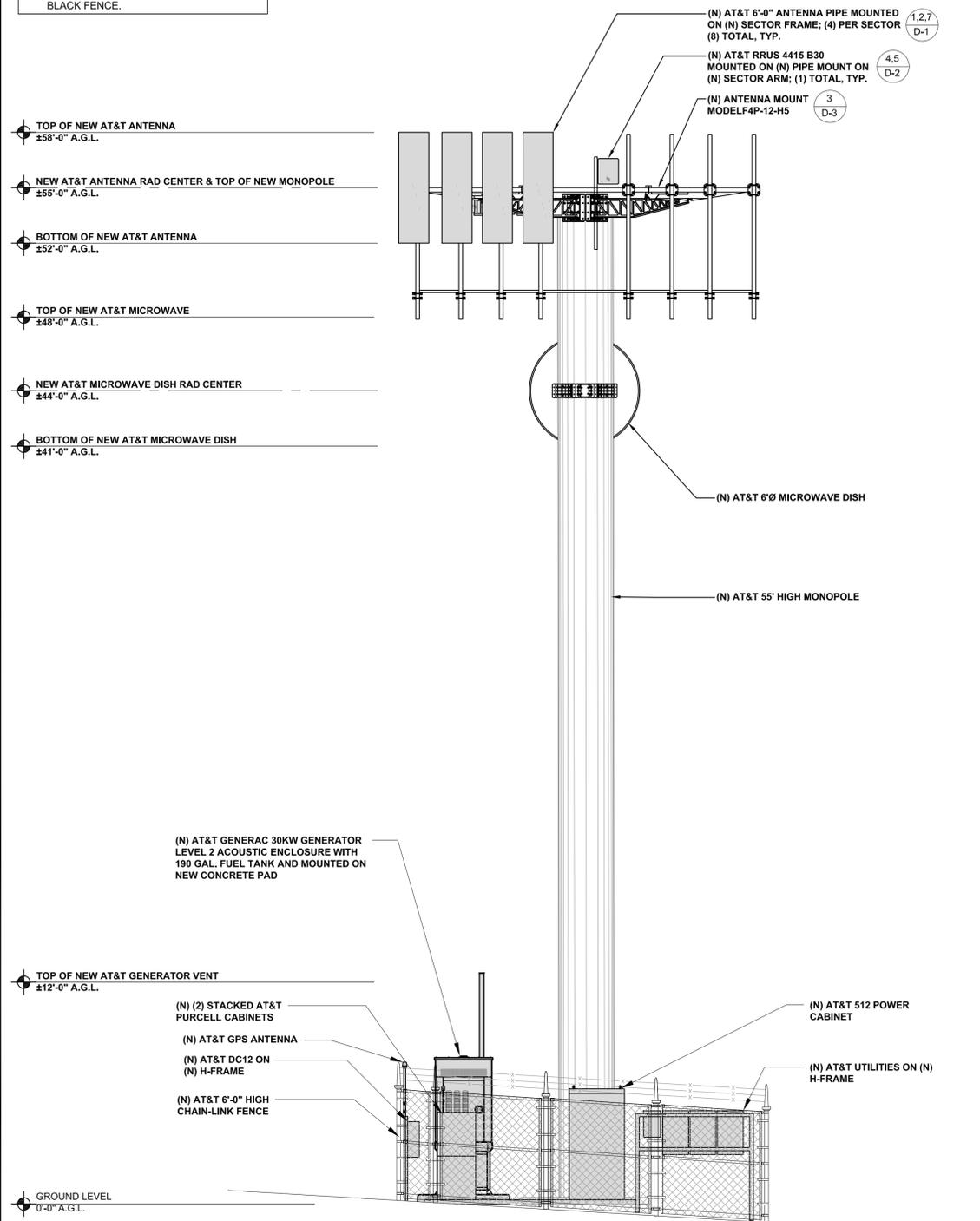
NOTE:
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 2. PAINT FENCE TO MATCH EXISTING BLACK FENCE.



EAST ELEVATION

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

NOTE:
 1. PAINT TOWER AND GROUND EQUIPMENT TO MATCH SURROUNDING LANDSCAPE.
 2. PAINT FENCE TO MATCH EXISTING BLACK FENCE.



WEST ELEVATION

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

ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

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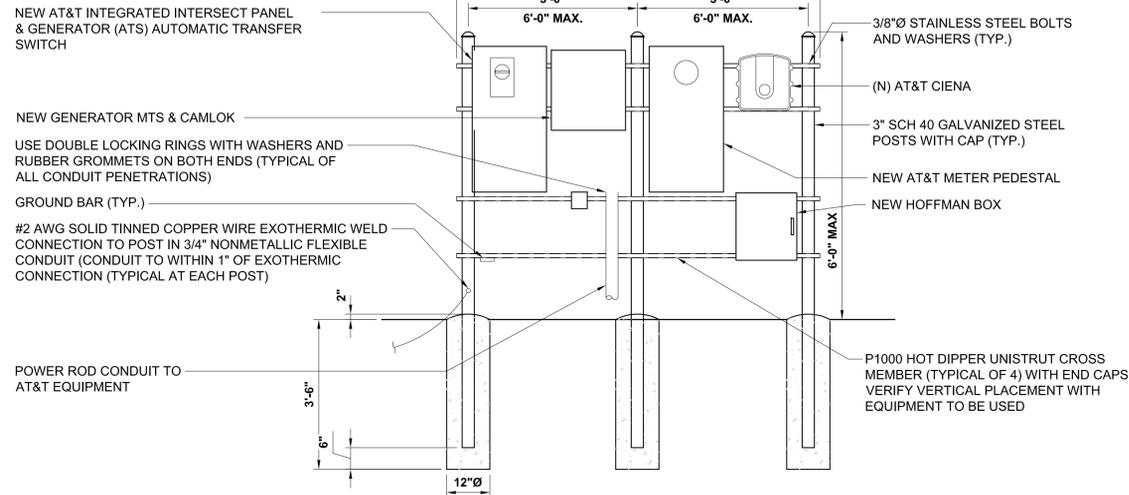
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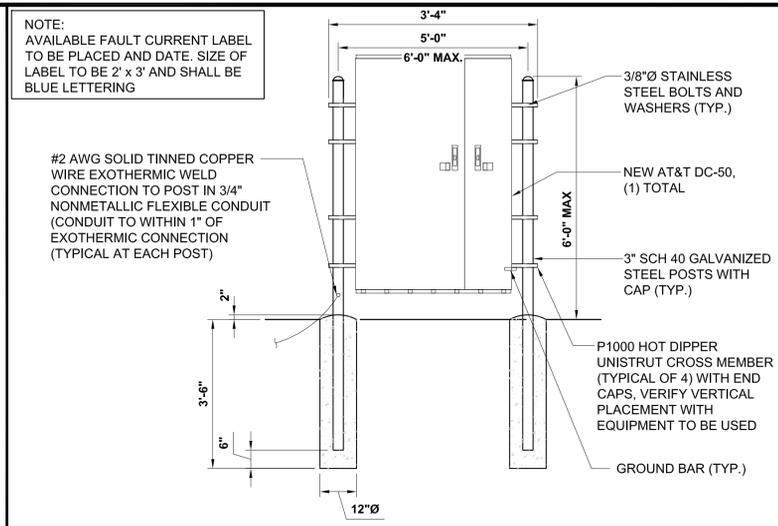
SHEET TITLE
ELEVATIONS

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



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

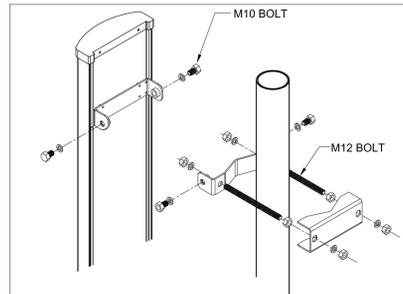
6

DC-50 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)



ATTENTION: INSERT M12 BOLTS AND M12
FLAT WASHERS INTO BRACKET WITH
TABS PRIOR TO ATTACHING BRACKET TO
ANTENNA.

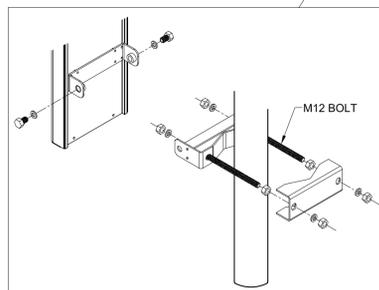
NEW ANTENNA MOUNTING
BRACKET; BSAMNT-1 (INCLUDED)

ANTENNA

NEW ANTENNA MOUNTING
BRACKET; BSAMNT-1 (INCLUDED)

3" STD. PIPE (3-1/2" O.D.) ANTENNA
MOUNTING MAST, MIN. 6'-0" L. (ATTACH TO
EXISTING CROSSARM W/ SITE PRO 1 PN:
SCX-4 CROSSOVER KIT)

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



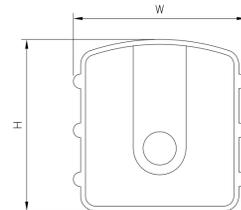
ANTENNA MOUNTING DETAIL

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

7

RAYCAP DC-50 BOX

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



FRONT VIEW

SIDE VIEW

CIENA CN 3931

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

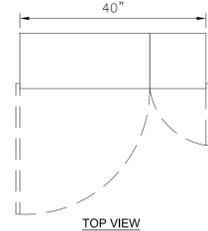
5

RAYCAP_OVP_DISTRIBUTION & FIBER CABINET SPECIFICATIONS
PART NUMBER: DC50-48-60-96-50F

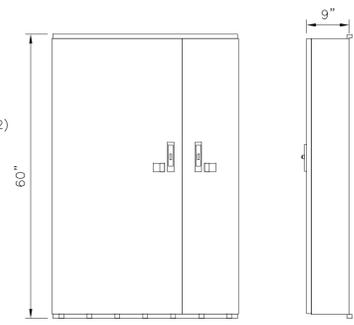
CONFIGURATION
• TWO-DOOR CONFIGURATION
• DIMENSIONS: 60"H x 40"W x 9"D
• CHAMBERS: WET CHAMBER, DC POWER, FIBER TERMINATION

POWER SECTION:
• UP TO 400A INPUT PER EA. 25-CIRCUIT DISTRIBUTION BANK (X2)
• (2) 2.5" CONDUIT FITTINGS FOR DC INPUT FROM WIC/WUC
• GLANDS FOR UP TO (17) 8AWG, 6AWG, OR 4AWG 3-PAIR DC TRUNKS

FIBER SECTION:
• 96 LC DUPLEX FIBER PORTS
• (2) 2.5" CONDUIT FITTINGS FOR FIBER INPUT FROM WIC/WUC
• (8) FIBER DIVIDER HEAD MOUNTING BRACKETS
• GLANDS FOR UP TO (6) FIBER TRUNKS TO TOWER/ROOFTOP

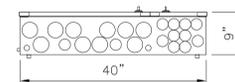


TOP VIEW



FRONT VIEW

SIDE VIEW



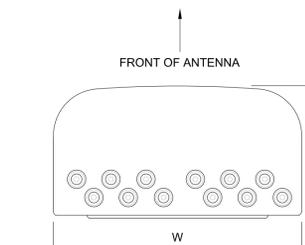
BOTTOM VIEW

CCI 6'-0" PANEL ANTENNA

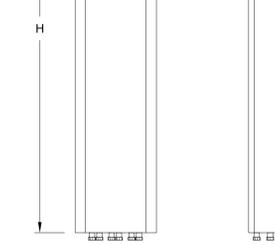
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

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



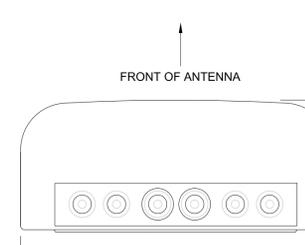
BOTTOM VIEW



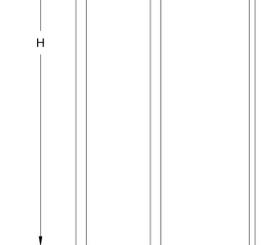
FRONT VIEW

SIDE VIEW

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



BOTTOM VIEW



FRONT VIEW

SIDE VIEW

CCI 6'-0" PANEL ANTENNA

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

1

ISSUED FOR:
MT. ROSE WEDGE
4450 GREAT FALLS LOOP DR
RENO, NV 89511



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

J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	BM
H	08/09/2021	100% ZDs REVISED	EW
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
REV	DATE	DESCRIPTION	BY

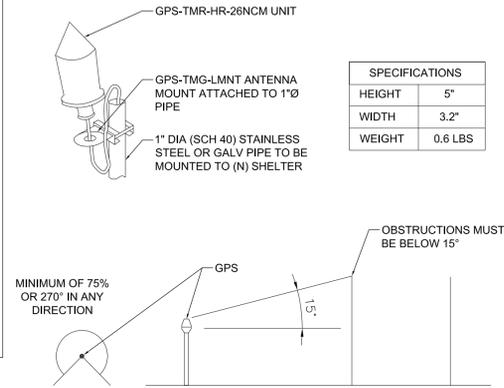
LICENSOR:

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

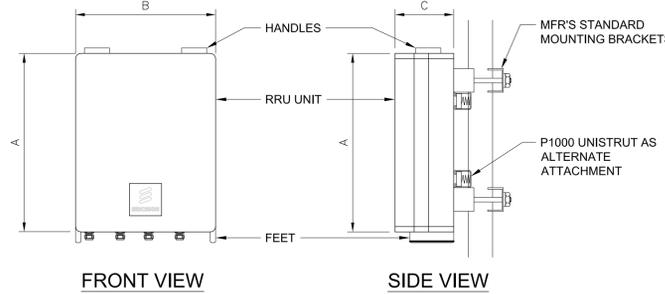
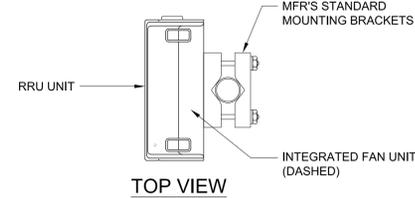
SHEET NUMBER
D-1

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 DEBARBED.
 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.

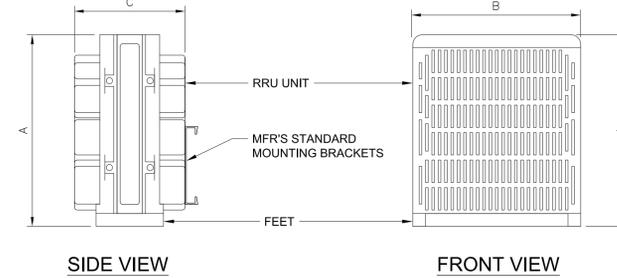
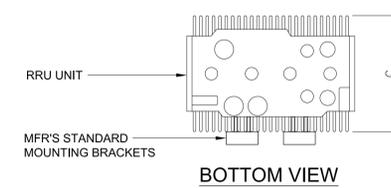


SPECIFICATIONS	
HEIGHT	5"
WIDTH	3.2"
WEIGHT	0.6 LBS

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



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



ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	BM
H	08/09/2021	100% ZDs REVISED	EW
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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
REV	DATE	DESCRIPTION	BY

(N) GPS ANTENNA

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

9

ERICSSON RRUS 4478 B14

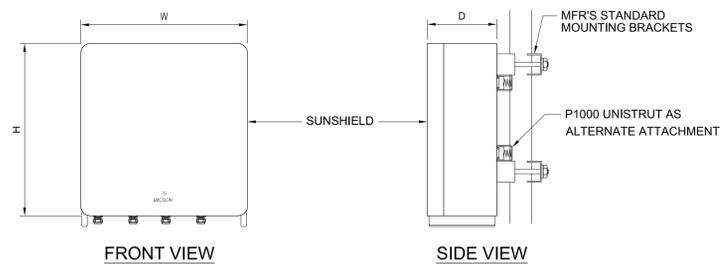
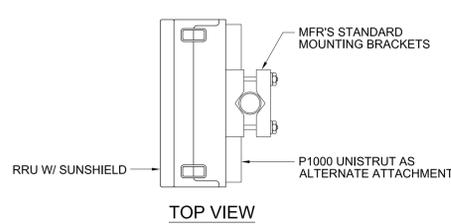
24"x36" SCALE: NTS
 11"x17" SCALE: NTS

6

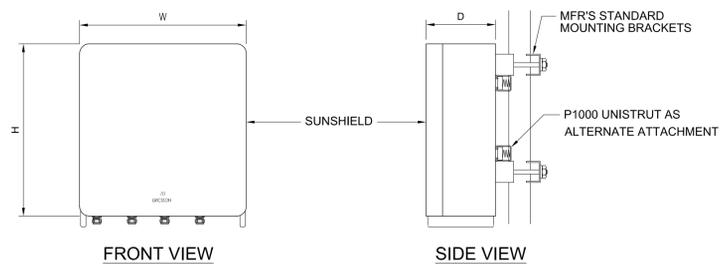
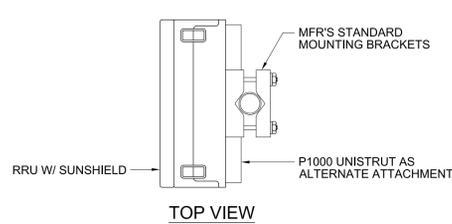
ERICSSON RRUS 4449 B5/B12

3

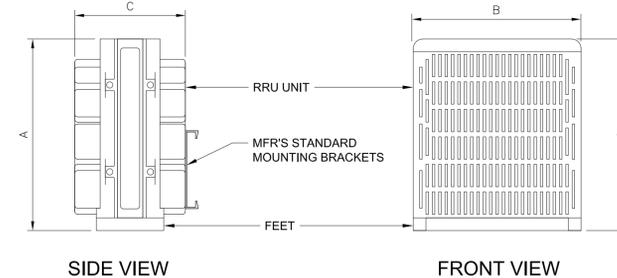
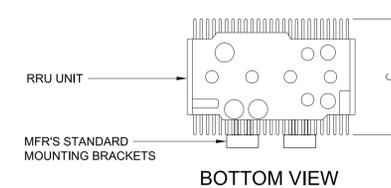
MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS 4415 B25
DIMENSIONS:	TOTAL WEIGHT :
A	16.5"
B	13.4"
C	5.9"
	46 LBS (21 kg)



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



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



RRUS 4415 B25

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

8

RRUS 4415 B30

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

5

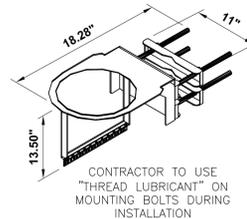
ERICSSON RRU 8843

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

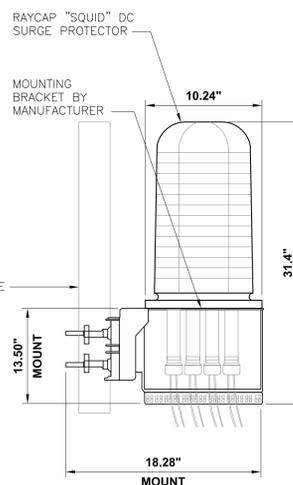
2

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

DIMENSIONS, WDXH: 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



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

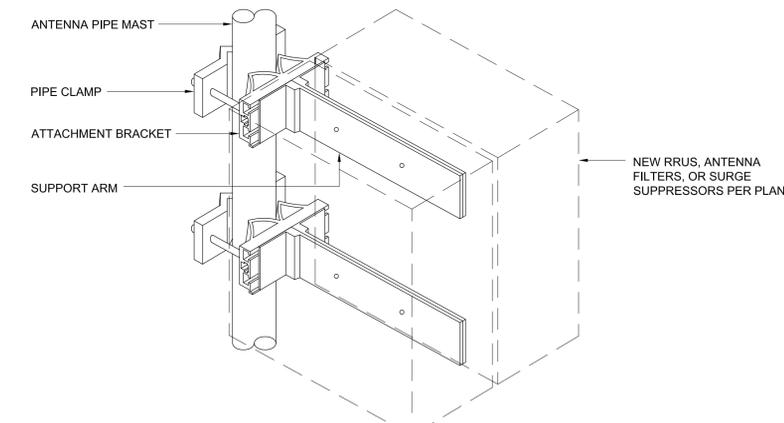
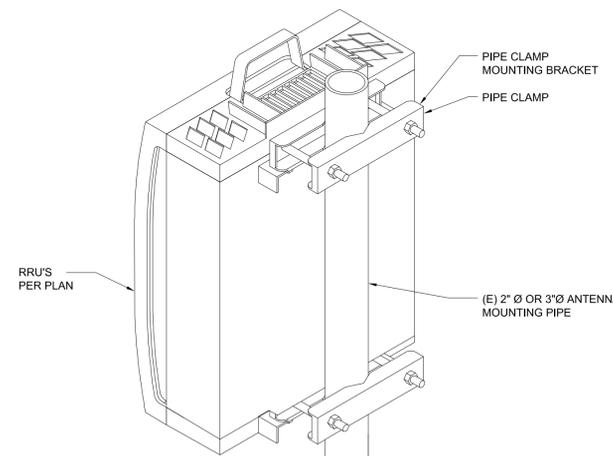
24"x36" SCALE: NTS
 11"x17" SCALE: NTS

4

RRU BACK-TO-BACK MOUNT

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

1

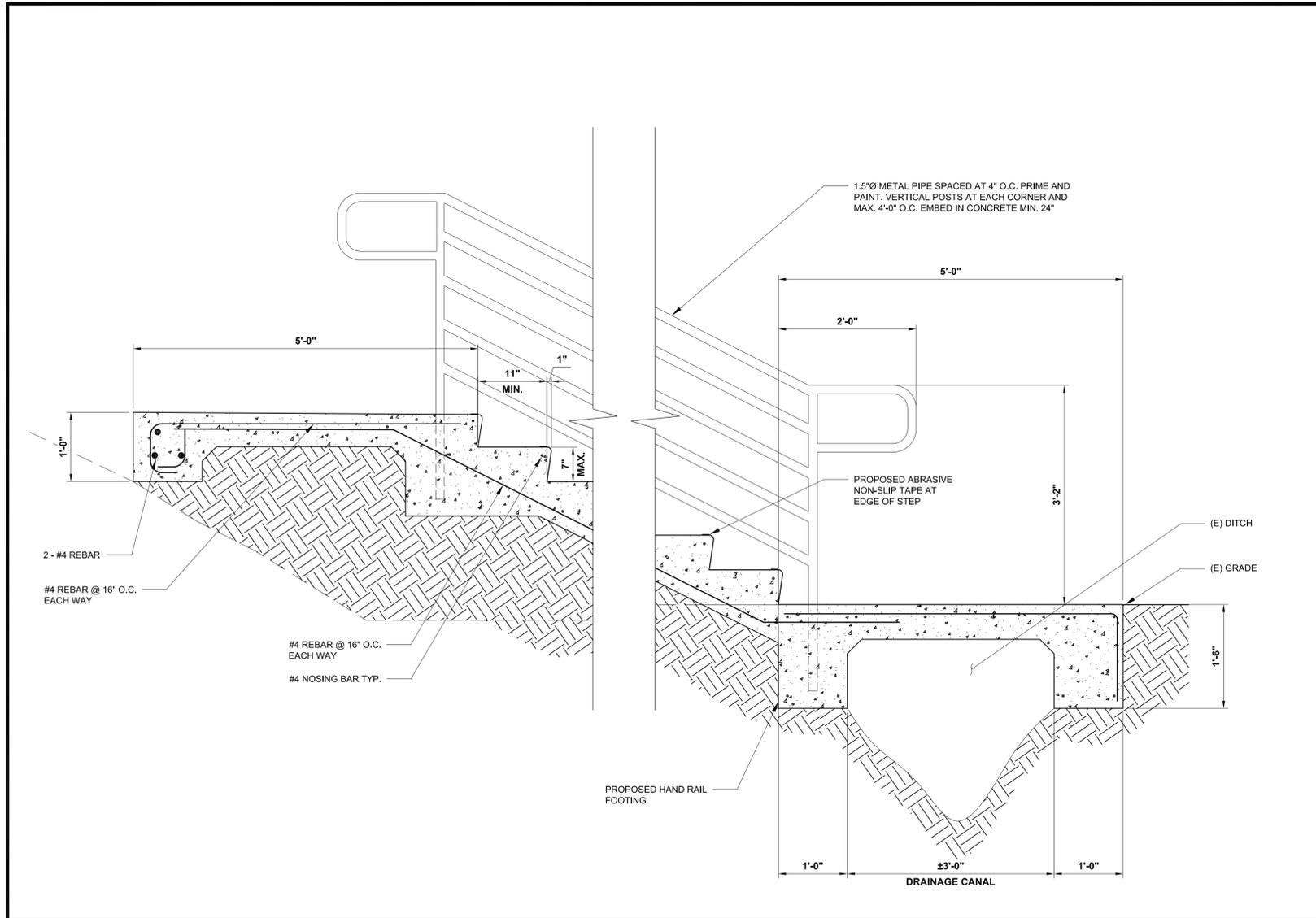


LICENSOR:

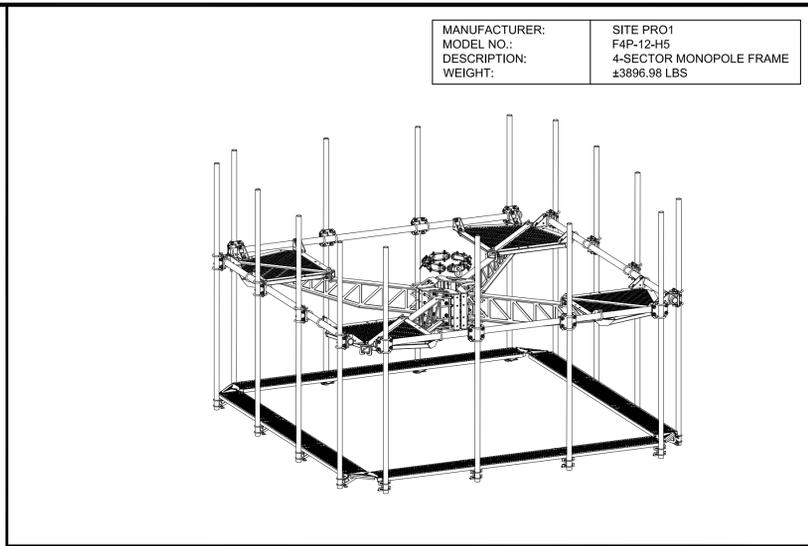
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DETAILS

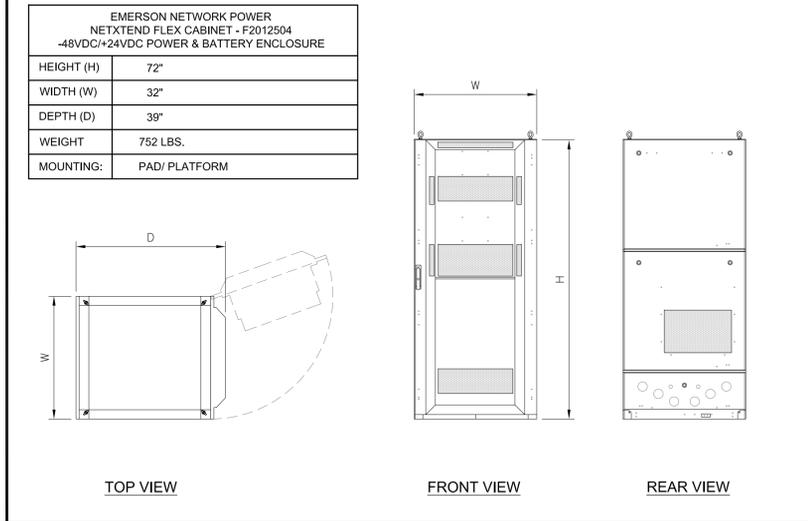
SHEET NUMBER
D-2



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



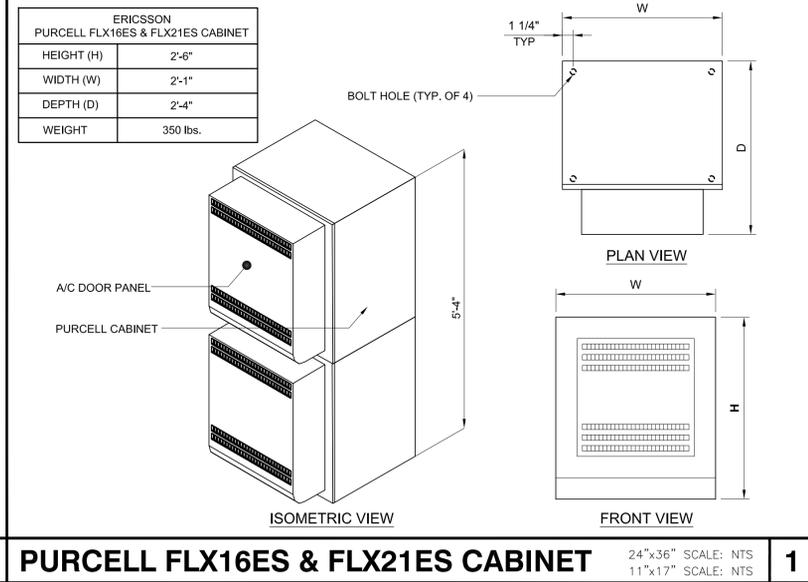
SITEPRO 1 F4P-12-H5 SECTOR FRAME 24"x36" SCALE: NTS 11"x17" SCALE: NTS



NETSURE 512 DC POWER SYSTEM 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOT USED 7

NOT USED 4



PURCELL FLX16ES & FLX21ES CABINET 24"x36" SCALE: NTS 11"x17" SCALE: NTS

ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

J	09/16/2022	100% ZDs REV-REDLINES	BM
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REV	DATE	DESCRIPTION	BY

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DETAILS

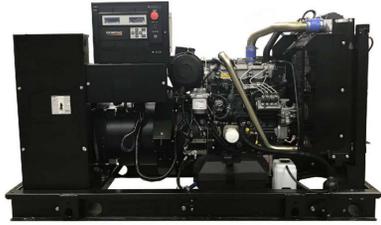
SHEET NUMBER
D-3

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



Standby Power Rating
30 kW, 38 kVA, 60 Hz

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



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, 79, 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.

FOR REFERENCE ONLY

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 Lock 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 G2/Protect™
 - Glass Fiberglass Material
 - 2/3 Phas
 - Skewed Stator
 - Brushless Excitation
 - Scaled Bearings
 - 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
 - Unward Facing Discharge Hoods (Radiators and Exhaust)
 - Stainless Steel LR Off Door Hinges
 - Stainless Steel Lockable Handles
 - RhinCoat™ - Textured Polyester Powder Coat Paint
- FUEL TANKS (If Selected)**
 - UL 142/ULC S601
 - Double Wall
 - Normal and Emergency Vents
 - Skipped Top
 - Skipped Bottom
 - Factory Pressure Tested
 - Rupture Basin Alarm
 - Fuel Level
 - Check Valve to Supply and Return Lines
 - RhinCoat™ - 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
 - 15-220 AC Communications
 - All Phase Sensing Digital Voltage Regulator
 - 2 Wire Start Capability
 - Date/Time Fault History (Event Log)
 - Isynchronous Governor Control
 - Waterproof/Sealed Connectors
- Full System Status Display**
 - Power Output (kW)
 - Power Factor
 - kWh Hours, Total, and Last Run
 - Real/Reactive/Apparent Power
 - All Phase AC Voltage
 - All Phase Currents

- audible Alarms and Shutdowns**
 - Not in Auto (Flashing Light)
 - Auto/Off/Manual Switch
 - E-Stop (Fixed Mushroom-Type)
 - NFPA110 Level I and II (Programmable)
 - Customizable Alarms, Warnings, and Events
 - Modbus™ Protocol
 - Proactive Maintenance Algorithm
 - Sealed Boards
 - Placed Parameter Adjustment Protection
 - Single Point Ground
 - 16 Channel Remote Trending
 - 0.2 msec High Speed Remote Trending
 - Alarm Information Automatically Announced on the Display
- Alarms and Warnings**
 - Oil Pressure
 - Coolant Temperature
 - Coolant Level
 - Engine Speed
 - Battery Voltage
 - Frequency
 - 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 Shroud 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 Upgrading
 - Anti Condensation Heater
 - Tropical Coating
 - Permanent Magnet Excitation
- GENERATOR SET**
 - Extended Factory Testing
 - 5 Position Load Center
 - Fuel Vibration Isolation
- CIRCUIT BREAKER OPTIONS**
 - Main Line Circuit Breaker
 - 2nd Main Line Circuit Breaker
 - Start Trip and Auxiliary Contact
 - Electronic Trip Breakers
- ENCLOSURE**
 - Weather Protected Enclosure
 - Level 1 Sound Attenuation
 - Level 2 Sound Attenuation with Motorized Dampers
 - 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
 - Dampers Alarm Contacts
- WARRANTY (Standby Gensets Only)**
 - 2 Year Extended Limited Warranty
 - 5 Year Limited Warranty
 - 5 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 (Fixed Mushroom-Type, Surface Mount)
 - Remote E-Stop (Fixed Mushroom-Type, Flush Mount)
 - 100 dB Alarm Horn
 - Ground Fault Annunciation
 - 120V AC and 240V Outputs
 - 10A Engine Run Relay
- FUEL TANKS (Size On Last Page)**
 - 9 in (203.2 mm) Fill Extension
 - 13 in (330.2 mm) Fill Extension
 - 19 in (482.6 mm) Fill Extension
 - Overall Protection Valve
 - 5 Gallon Split Box Return Hose
 - 5 Gallon Split Box
 - Tank Risers
 - Fast Level Switch and Alarm
 - 12" Vent System
 - Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

- ENGINE SYSTEM**
 - Coolant Heater Isolation Ball Valves
 - Fault Containment Pan
- CONTROL SYSTEM**
 - Open Inputs (44) / Outputs (44)
 - Battery Disconnect Switch
- ALTERNATOR SYSTEM**
 - 3rd Breaker System
- GENERATOR SET**
 - Special Testing
- FUEL TANKS**
 - UL203S 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		Cooling System	
Make	Perkins	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary / Emergency	Water Pump Type	One Labeled, Self Sealing
EPA Emissions Reference	See Emissions Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	1,980
Type	In Line	Fan Diameter - in (mm)	19 (487)
Displacement - in ³ (L)	135 (2.22)	Fuel System	
Bore - in (mm)	3.3 (84)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Stroke - in (mm)	3.9 (100)	Fuel Specifications	ASTM
Compression Ratio	22.5:1	Fuel Filter (Microns)	5
Intake Air Method	Turbocharged	Fuel Injected Pump	Distribution Injection Pump
Cylinder Head	Cast Iron	Fuel Pump Type	Engine Driven Gear
Piston Type	Aluminum	Injector Type	Mechanical
Crankshaft Type	Forged Steel	Fuel Supply Line - in (mm)	0.31 (7.9) ID
		Fuel Return Line - in (mm)	0.2 (4.8) ID
Engine Governing		Engine Electrical System	
Governor	Electronic Isochronous	System Voltage	12 VDC
Frequency Regulation (Steady State)	+/- 0.5%	Battery Charger Alternator	Standard
		Battery Size	See Battery Index 01619/1058Y
		Battery Voltage	12 VDC
		Ground Polarity	Negative
Lubrication System			
Oil Pump Type	Gear		
Oil Filter Type	Full Flow		
Coolant Capacity - gal (L)	11.2 (10.6)		

ALTERNATOR SPECIFICATIONS

Standard Model	K003S124Y21	Standard Excitation	Brushless
Poles	4	Bearings	Single Sealed
Field Type	Revolving	Cooling	Direct via Flexible Ducts
Insulation Class - Rotor	H	Load Capacity - Standby	100%
Insulation Class - Stator	H	Perkins/Sea Start Circuit Test	Yes
Total Harmonic Distortion	<2% (3 Phase)	Voltage Regulator Type	Digital
Telephone Interference Factor (TIF)	<30	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

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	Standby	
				Power Output (kW)	Power Factor
No Tank	76.0 (1,920)	37.4 (950) x 44.0 (1,130)	1,641 (743)	30 kW	0.85
19	54 (204)	76.0 (1,920) x 37.4 (950) x 57.8 (1,468)	2,121 (963)	30 kW	0.85
47	132 (501)	76.0 (1,920) x 37.4 (950) x 69.8 (1,773)	2,361 (1,070)	30 kW	0.85
75	211 (799)	76.0 (1,920) x 37.4 (950) x 81.8 (2,078)	2,599 (1,182)	30 kW	0.85
107	300 (1,136)	92.9 (2,366) x 37.4 (950) x 91.8 (2,331)	2,829 (1,280)	30 kW	0.85

MOTOR STARTING CAPABILITIES (s/kVA)

s/kVA vs. Voltage Dip	277/480 VAC	30%	208/240 VAC	30%
Fuel Specifications	K003S124Y21	61	K003S124Y21	46
Fuel Filter (Microns)	K0040124Y21	76	K0040124Y21	58
Fuel Pump Type	K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Ltr. / hr (in)	Percent Load	Standby
3 (1)	20%	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

Coolant Flow	gpm (L/min)	Standby
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	Btu/hr (kW)	120,630 (35)
Intake Air	scfm (m ³ /hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derating)	°F (°C)	See Bulletin No. 01692/985S3
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Flow at Rated Power scfm (m ³ /min)	Standby
	385 (2.5)

ENGINE

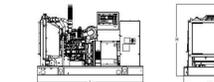
Rated Engine Speed	RPM	Standby
Load Capacity	scfm (m ³ /min)	296.6 (8.4)
Thrustpower at Rated kW**	hp	40
Thrust Speed	ft/min (m/min)	1,011 (308)
Thrust	psi (kPa)	159 (1,096)

** Rate to "Emissions Data Sheet" for maximum BHP for EPA and SCAQM permitting purposes.
 Note - 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, ISO3026, and DIN2771 standards.
 Standby - See Bulletin 01675/1058B
 Prime - See Bulletin 01675/1058B

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

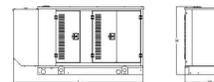


DIMENSIONS AND WEIGHTS*



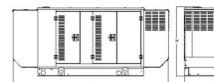
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	76.0 (1,920)	37.4 (950) x 44.0 (1,130)	1,641 (743)
19	54 (204)	76.0 (1,920) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,920) x 37.4 (950) x 69.8 (1,773)	2,361 (1,070)
75	211 (799)	76.0 (1,920) x 37.4 (950) x 81.8 (2,078)	2,599 (1,182)
107	300 (1,136)	92.9 (2,366) x 37.4 (950) x 91.8 (2,331)	2,829 (1,280)



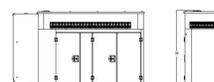
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	94.8 (2,409)	38.0 (965) x 49.0 (1,250)	2,141 (970)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	372 (170)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	416 (189)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	460 (209)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 98.5 (2,503)	504 (228)



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	112.5 (2,857)	38.0 (965) x 49.0 (1,250)	2,141 (970)
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)	372 (170)
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	416 (189)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	460 (209)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 98.5 (2,503)	504 (228)



LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	94.8 (2,409)	38.0 (965) x 61.1 (1,551)	2,141 (970)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 74.1 (1,881)	310 (141)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 86.1 (2,186)	354 (160)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 98.1 (2,491)	398 (180)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 110.1 (2,796)	442 (200)

* 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.
 Generac Power Systems, Inc. | P.O. Box 0 | Waukesha, WI 53189
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 Part No. 1000002492
 Rev. B: 08/27/18

ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	EM
H	08/09/2021	100% ZDs REVISED	EW
G	06/16/2021	100% ZDs 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

GENERAL ELECTRICAL NOTES

1. SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED 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 DATE 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 THOROUGH 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 ENGRAVED 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	WIREFWAY
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 SERVICES		
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
	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 1
⊕	20 AMP 125V QUADPLEX RECEPTACLE HUBBELL #5362 1
⊕ GFI	20 AMP 125V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE HUBBELL #GF5362 1
⊕	FUSED DISCONNECT SWITCH
WP	WEATHERPROOF
UON	UNLESS OTHERWISE NOTED
M ²	20 AMP 120/277V SINGLE POLE SWITCH. HUBBELL #HBL 1221 1, +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
Sob	LIGHTING SWITCH 20 AMP, 120/277V, SINGLE POLE, HUBBELL #HBL 1221, +48"
Soff	VERRIDE 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
4450 GREAT FALLS LOOP DR
RENO, NV 89511



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

REV	DATE	DESCRIPTION	BY
J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	BM
H	08/09/2021	100% ZDs REVISED	EW
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

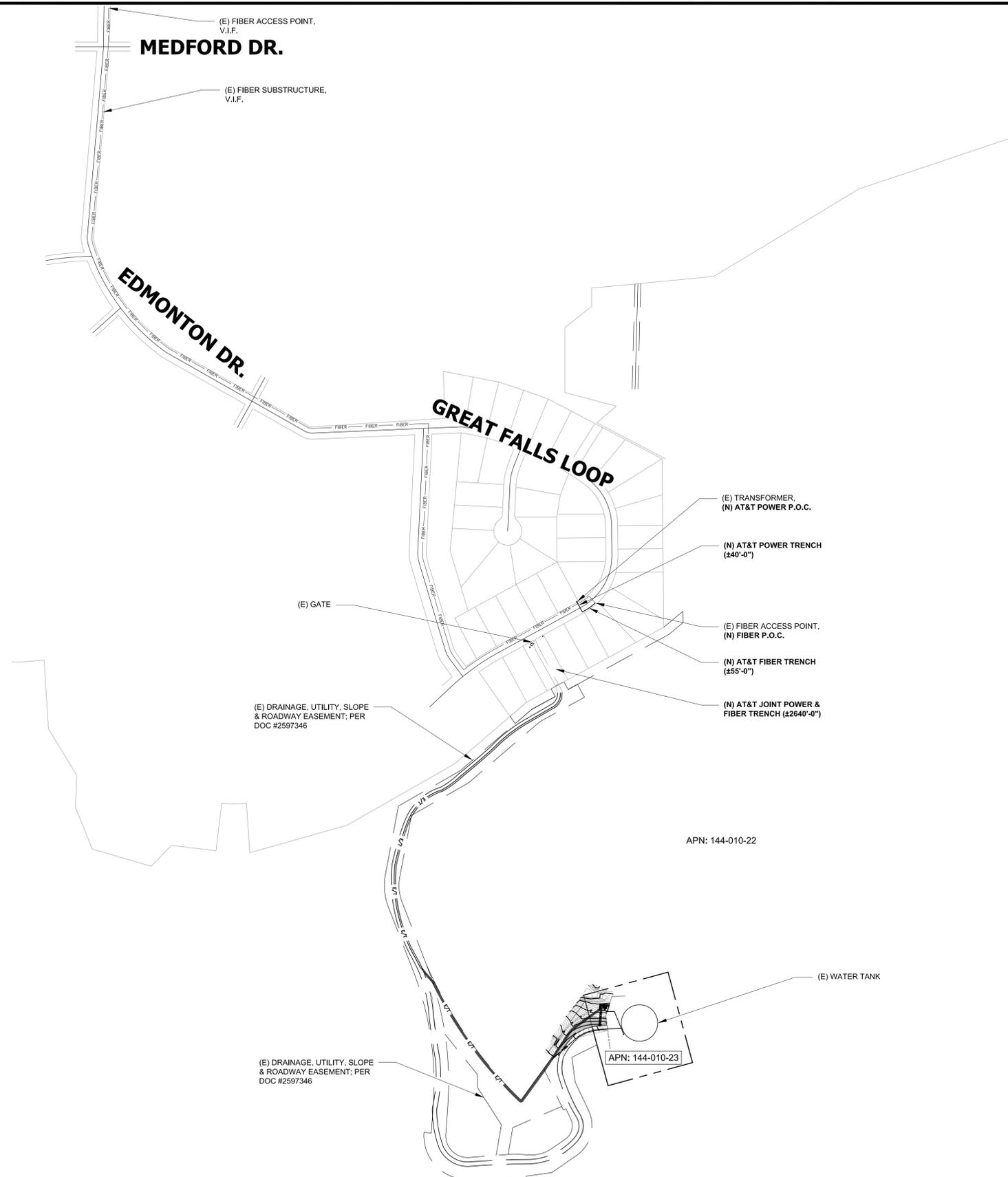
LICENSOR:

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
**ELECTRICAL NOTES,
ABBREVIATIONS &
ELECTRICAL LEGEND**

SHEET NUMBER

E-1



ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511



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

REV	DATE	DESCRIPTION	BY
J	09/16/2022	100% ZDs REV-REDLINES	BM
I	10/29/2021	100% ZDs REV-ADDRESS	BM
H	08/09/2021	100% ZDs REVISED	EW
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

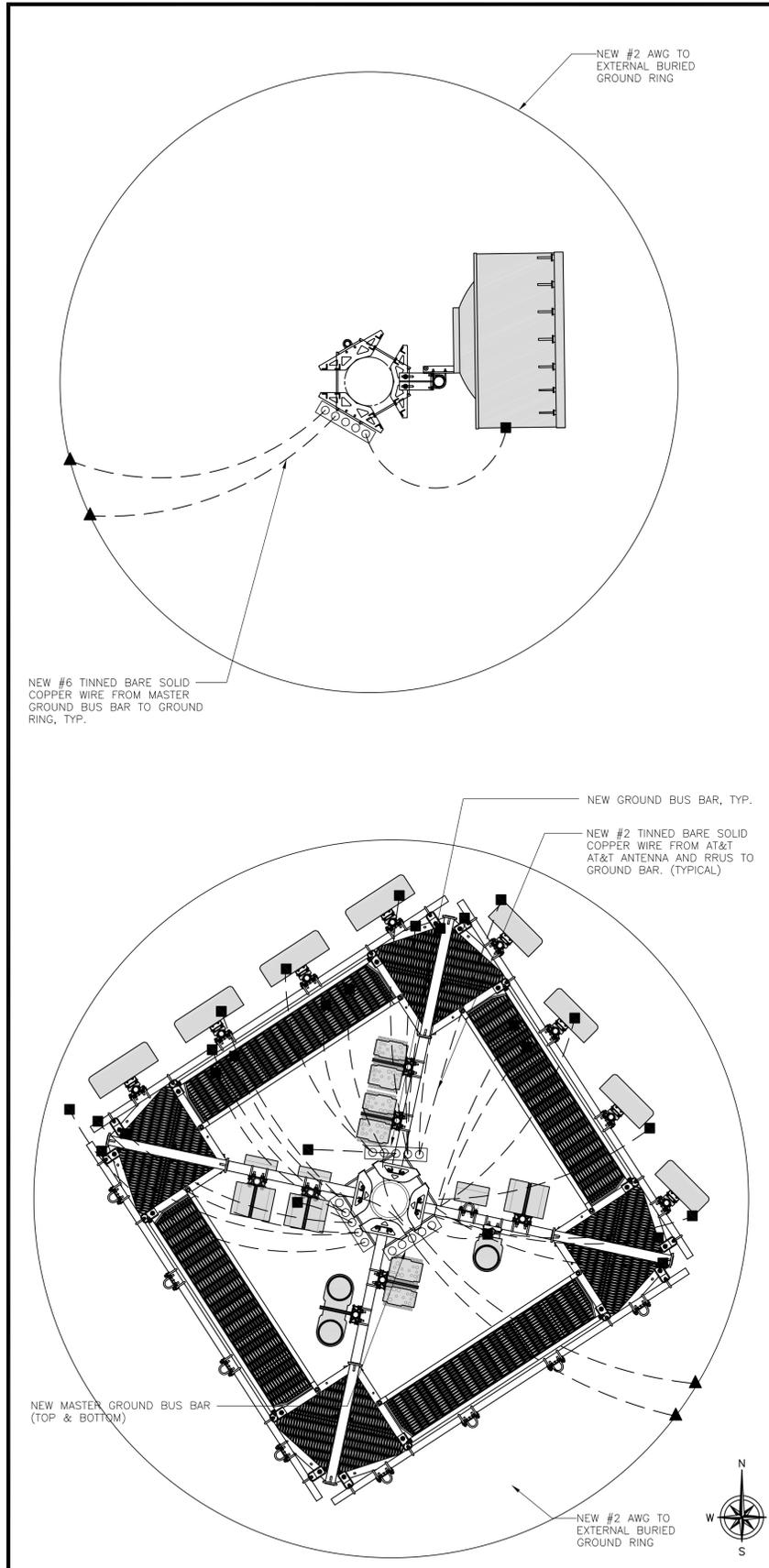
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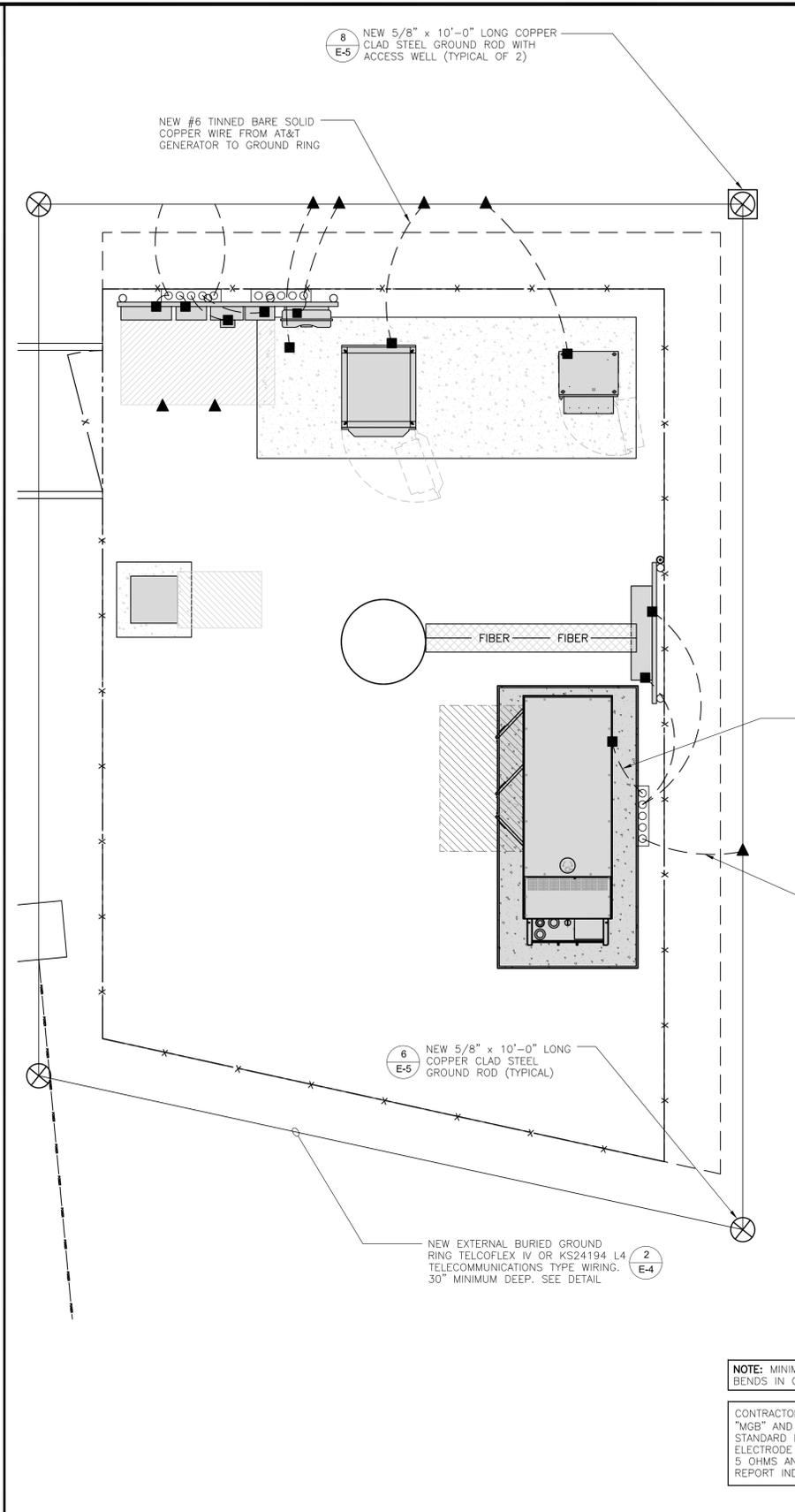
SHEET TITLE
UTILITY ROUTE PLAN

SHEET NUMBER
E-2

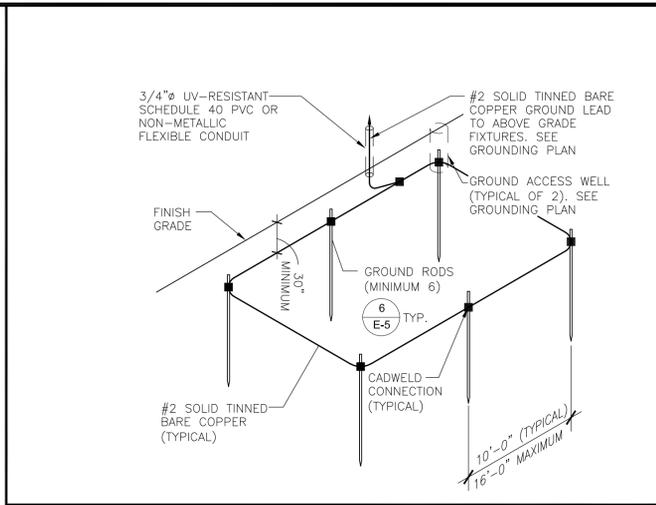




ANTENNA GROUNDING PLAN 24"x36" SCALE: 3/8" = 1'-0" 0" 1' 2' 4' **3**



EQUIPMENT GROUNDING PLAN 24"x36" SCALE: 3/8" = 1'-0" 0" 1' 2' 4' **1**



GROUNDING RING 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**

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" x 12" HIGH WITH CONCRETE COVER - CAST LETTERS "GR ROD" IN COVER. (2 TOTAL)
- GROUND CONDUCTOR

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.

ISSUED FOR:
MT. ROSE WEDGE
 4450 GREAT FALLS LOOP DR
 RENO, NV 89511

at&t
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CALIFORNIA 94583

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World

M SQUARE
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
J	09/16/2022	100% ZD'S REV-REDLINES	BM
I	10/29/2021	100% ZD'S REV-ADDRESS	BM
H	08/09/2021	100% ZD'S REVISED	EW
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

LICENSOR:

SHEET TITLE
GROUNDING PLAN

SHEET NUMBER
E-4

ISSUED FOR:
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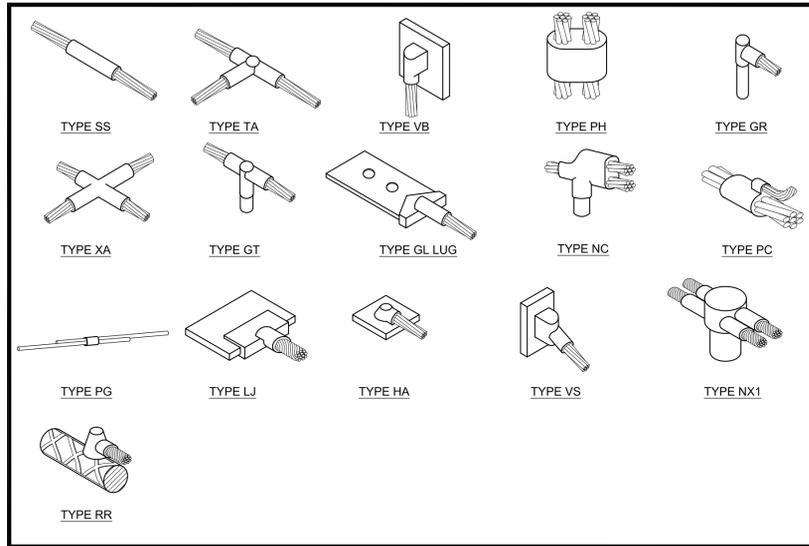
AT&T SITE NO: CVL00257
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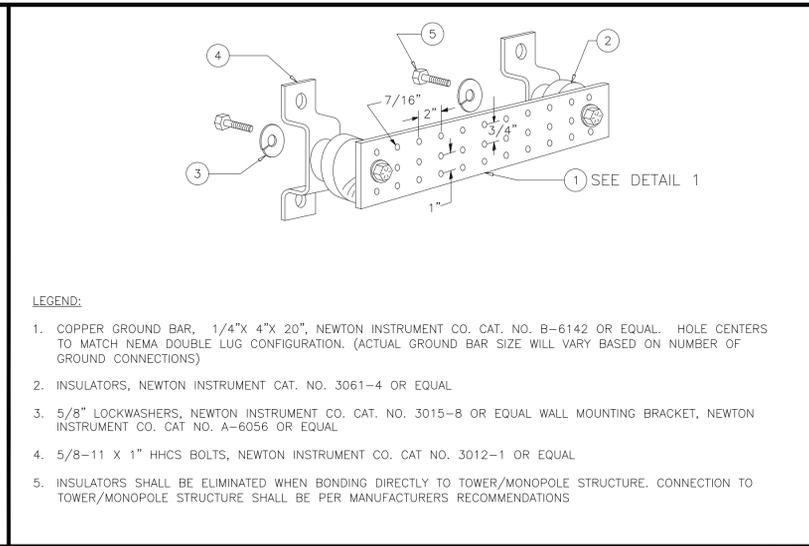
LICENSOR:

SHEET TITLE
GROUNDING PLAN

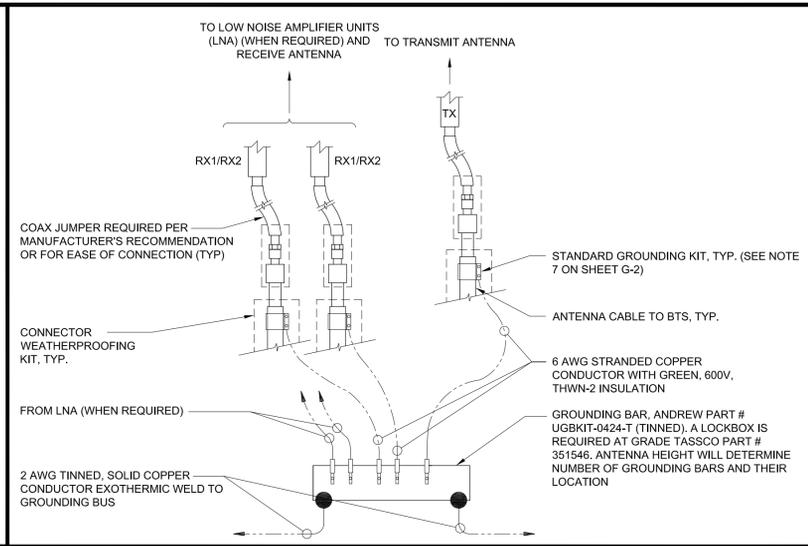
SHEET NUMBER
E-4



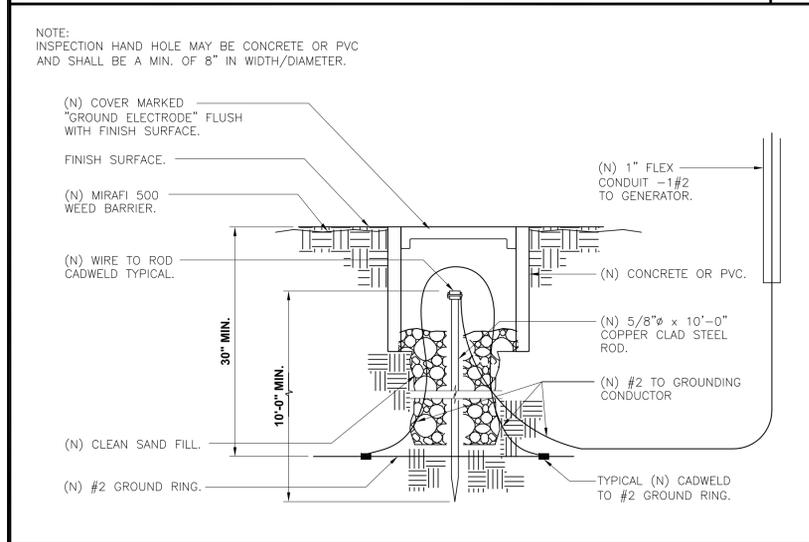
TYPICAL CADWELD TYPES 24"x36" SCALE: NTS 11"x17" SCALE: NTS **7**



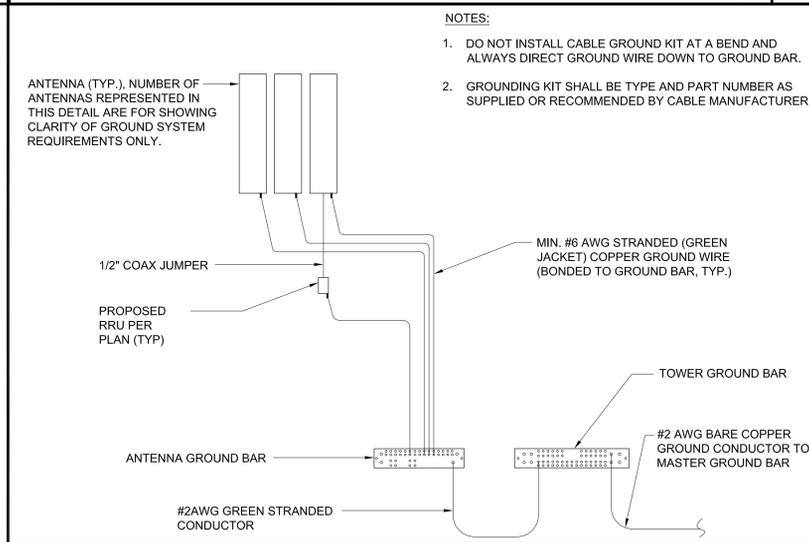
EXISTING GROUNDING BAR DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**



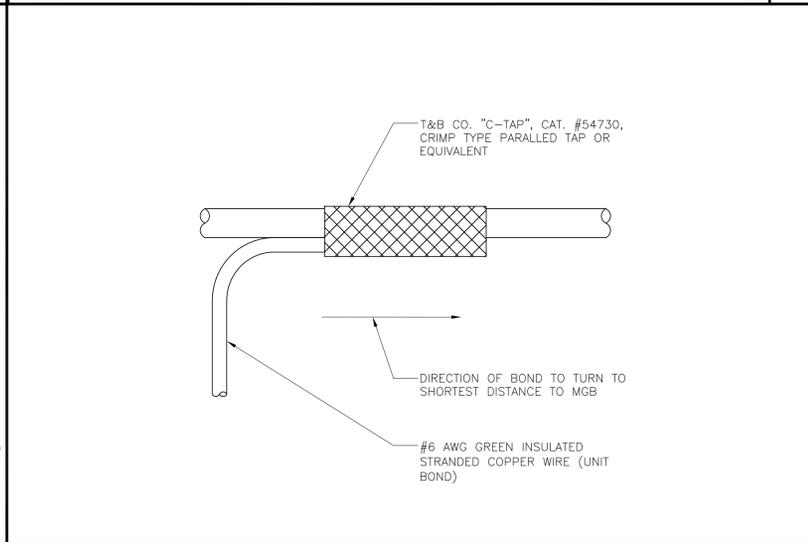
GROUNDING BAR CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**



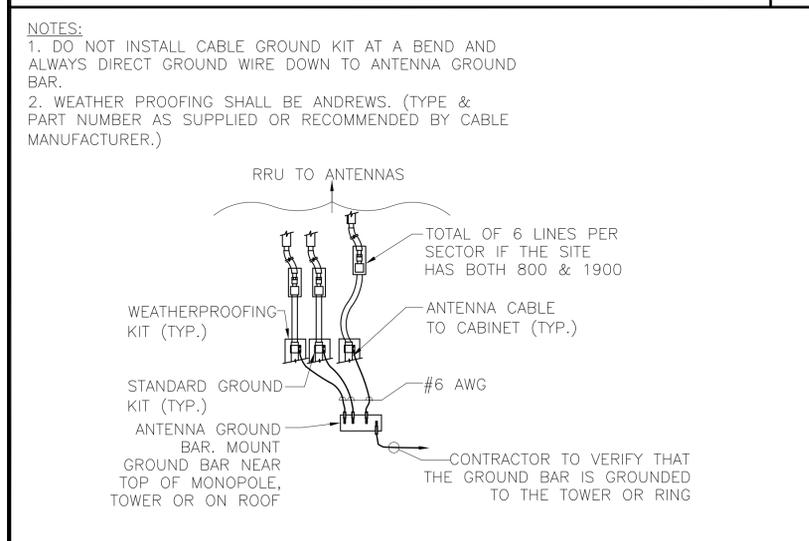
NEW MAIN GROUND TEST WELL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **8**



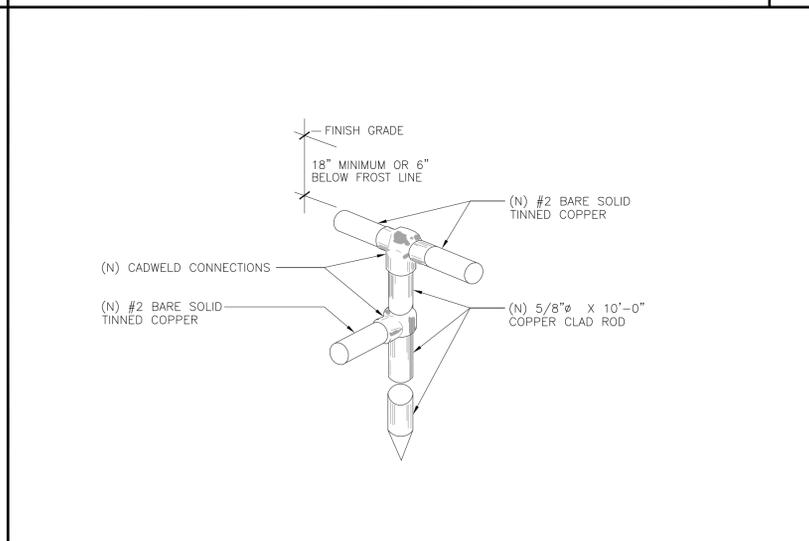
ANTENNA GROUNDING PLAN 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**



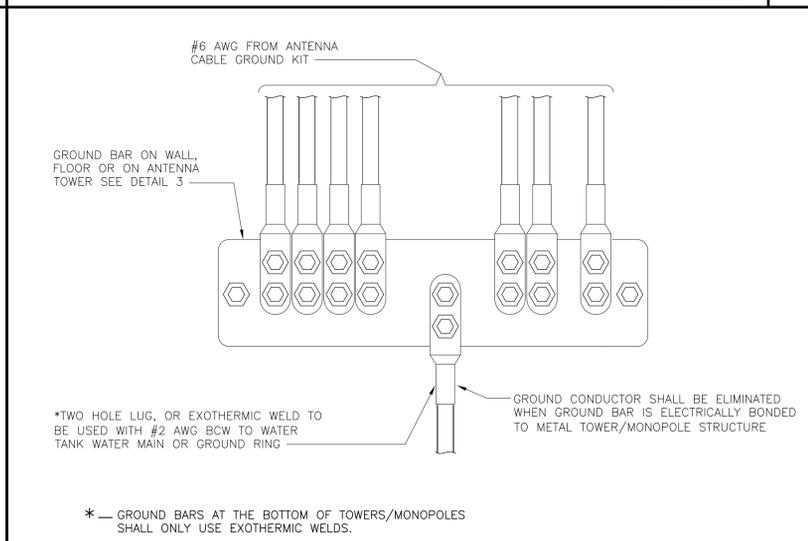
GROUNDING WIRE CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**



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**



WIRE TO GROUND BAR CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**

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CHECKED BY:	MM

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B	03/05/2021	100% ZD'S	SD
REV	DATE	DESCRIPTION	BY

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
ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER
E-5