



SITE NAME:
**RICHFORD HARDWOOD
HILL ROAD**
SITE ID: VTL01035

USID: 210395
FA NUMBER: 14493105

IWM	PTN
WSCTB0028406	2053A1F72C
WSCTB0028398	2053A1F72G
WSCTB0028817	2053A1F72D

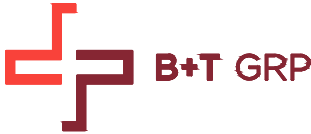
EXISTING 139'-0" MONOPOLE
5G NR 1SR CBAND

RF DATA SHEET

RFDS ID	RFDS-34010
LAST MODIFIED DATE	03/10/25

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VERMONT, LICENSE NO.: 018-0008334, EXPIRATION DATE: 7/31/2026.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

RICHFORD HARDWOOD
HILL ROAD
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

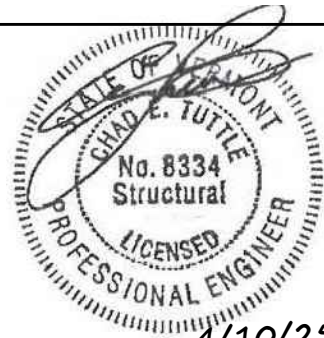
USID: 210395
FA: 14493105

PROJECT NO: 174472.001.01
CHECKED BY: TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
C	2/13/25	JS	PRELIMINARY REVIEW
D	3/6/25	CP	PRELIMINARY REVIEW
0	3/28/25	CLS	CONSTRUCTION
1	4/10/25	CLS	CONSTRUCTION
2	4/10/25	CLS	CONSTRUCTION

B&T ENGINEERING, INC.



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

SHEET NUMBER: T-1
REVISION: 2

PROJECT SUMMARY

TOWER OWNER: VERMONT RSA LIMITED PARTNERSHIP
ADDRESS: AND CELLCO PARTNERSHIP
EACH D/B/A VERIZON WIRELESS

CONTACT:

PROPERTY OWNER: PARSONS DANIEL & PAMELA LIFE SET ET AL
ADDRESS: 320 HARDWOOD HILL ROAD
RICHFORD, VT 05476

SITE NUMBER: -

SITE ADDRESS: 254 HARDWOOD HILL ROAD
RICHFORD, VT 05476

CUSTOMER/APPLICANT: NEW CINGULAR WIRELESS PCS, LLC
D/B/A AT&T WIRELESS
1025 LENOX PARK BLVD, NE
BROOKHAVEN, GA 30319

NAD83

LATITUDE: 44.969806° N
LONGITUDE: 72.670000° W

JURISDICTION: FRANKLIN COUNTY

COUNTY: FRANKLIN

GROUND ELEVATION: 1118' AMSL

OCCUPANCY TYPE: UNMANNED

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

CONSTRUCTION TYPE: II-B

OCCUPANCY GROUP: U

CONTACT INFORMATION

A&E FIRM: B+T GROUP
1717 S. BOULDER, STE. 300
TULSA, OK 74119
CONTACT: JASON TOWNLEY
EMAIL: JGTOWNLEY@BTGRP.COM

ELECTRIC PROVIDER: N/A
PHONE:

TELCO PROVIDER: N/A
PHONE:

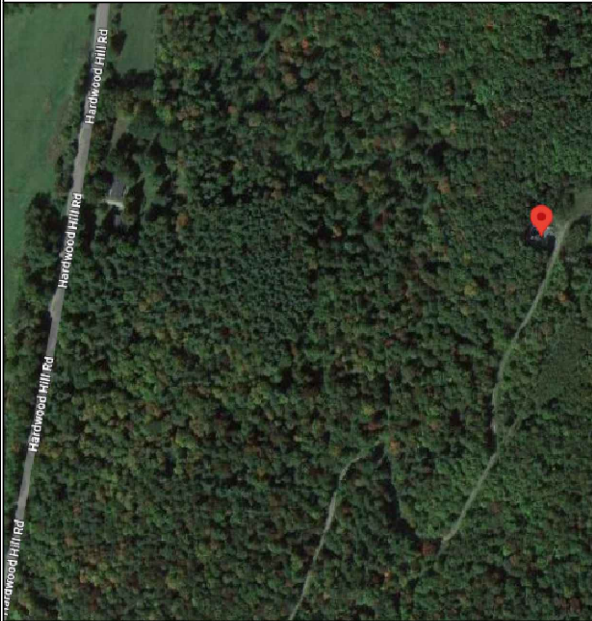
CONSTRUCTION PM:
CONTACT: DALE VANDEWALKER
EMAIL: DALE.VANDEWALKER@US.AMENTUM.COM



CALL VERMONT ONE CALL
(800) 344-7233
CALL 3 WORKING DAYS
BEFORE YOU DIG!

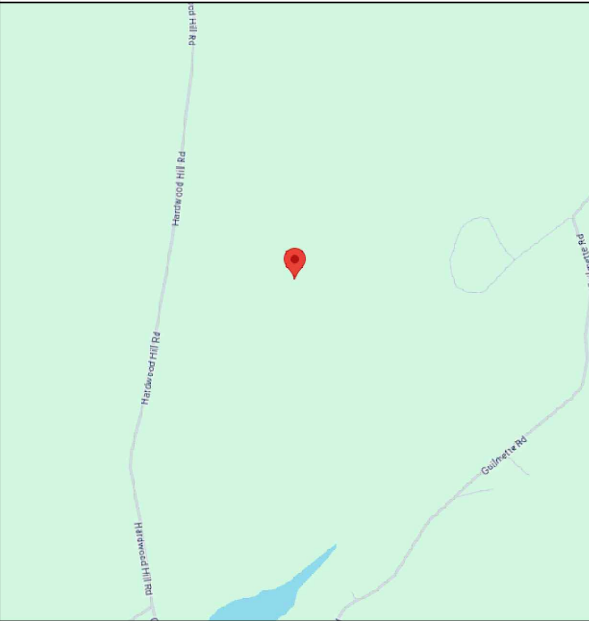


AREA MAP



NO SCALE

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART FROM 1425 US HWY 206, BEDMINSTER, NJ ON: HEAD NORTHEAST TOWARD SOMERSET CENTER, CONTINUE ONTO SOMERSET CENTER, TURN RIGHT ONTO US-206 S, TURN LEFT ONTO SCHLEY MOUNTAIN RD, TAKE EXIT 41 FROM I-87 N, MERGE WITH I-287 N, KEEP LEFT TO STAY ON I-287 N, USE THE LEFT 2 LANES TO MERGE WITH I-87 N/NY-17 N TOWARD NEW YORK THRUWAY/ALBANY, USE THE RIGHT 2 LANES TO TAKE EXIT 24 FOR I-87 N/I-90 E TOWARD ALBANY/MONTREAL, USE THE RIGHT 2 LANES TO TAKE EXIT 1N TO MERGE WITH I-87 N TOWARD ALBANY INT'L AIRPORT/MONTREAL, TAKE EXIT 41 TOWARD CHAZY/SCIOTA, TURN RIGHT ONTO NY-191 E, TURN LEFT ONTO US-9 N, TURN RIGHT ONTO NY-9B E, CONTINUE ONTO US-11 N/LAKE ST, TURN RIGHT ONTO US-2 E, TURN LEFT ONTO VT-78 E, TURN LEFT ONTO DEPOT ST, CONTINUE ONTO MERCHANTS ROW, SLIGHT LEFT TO STAY ON MERCHANTS ROW, TURN RIGHT ONTO US-7 S/GRAND AVE, CONTINUE TO FOLLOW US-7 S, TURN LEFT ONTO WOODS HILL RD, TURN LEFT ONTO VT-105, TURN LEFT ONTO ORCHARD ST, TURN LEFT ONTO MAIN ST/VERMONT RTE 108 N W, MAIN ST/VERMONT RTE 108 N W TURNS SLIGHTLY RIGHT AND BECOMES VT-105 E/ELM ST/SAMPSONVILLE RD, CONTINUE TO FOLLOW VT-105 E, TURN RIGHT ONTO HORSE SHOE RD, TURN LEFT ONTO HARDWOOD HILL RD, TURN LEFT TO STAY ON HARDWOOD HILL RD.

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/DWELLING	IBC 2015
STRUCTURAL	IBC 2015
MECHANICAL	IMC 2015
ELECTRICAL	NEC 2020

ALL WORK FOR THIS PROJECT WILL COMPLY WITH VT BUILDING CODE AND THE TIA-222-G (OR LATEST VERSION)

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17.
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SEE SHEET GN-1 FOR ADDITIONAL CONSTRUCTION NOTES

DRAWING INDEX

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PROJECT DESCRIPTION

TOWER

- REMOVE (3) 4478 B5 RADIOS.
- INSTALL (3) AIR 6472 B77G B77M ANTENNAS IN POS A3/B3/C3 ON MOUNT, ANTENNAS WRAPPED TO MATCH EXISTING.
- INSTALL (3) E/// 4490 B5/B12A RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW COMMSCOPE RR-FA2 BACK-TO-BACK BRACKET.
- INSTALL (6) 2" STD. X 10'-6" LONG COMMSCOPE - MT-537 EQUIPMENT PIPES W/ (12) XP-2020 CROSSOVER HARDWARE KITS.
- INSTALL (3) 2.5" STD. X 10'-0" LONG SITEPRO1 - P30120 MAST PIPES W/ (6) XP-2025 CROSSOVER HARDWARE KITS.
- RELOCATE (3) 8843 B2/B66A RADIOS.
- RELOCATE (3) 4415 B30 RADIOS.
- RELOCATE (3) 4478 B14 RADIOS.
- RELOCATE (2) DC9-48-60-24-8C-EV SQUIDS.
- INSTALL (1) 6AWG DC TRUNK.
- INSTALL (1) 24-PAIR FIBER TRUNK.

GROUND

- INSTALL (5) NEW RECTIFIERS
- INSTALL //E BBU(S) AND CONTROLLER

PROJECT COMPLIANCE NOTES:

1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
2. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
3. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL, UNLESS DURING EMERGENCY.
4. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
5. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AT&T SYSTEM GROUNDING STANDARDS. "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF LTE SITES AND WILL FOLLOW AT&T GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES AT&T DOC ID ATT-TP-76416 AND AT&T POLICY LETTER ATT-CEM-13002.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED DURING CONSTRUCTION OPERATION.
7. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
8. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE APPLICANT REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TURF VENDOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. NO ADDITIONAL PARKING IS PROPOSED. EXISTING ACCESS AND PARKING WILL BE USED.
10. NO ADDITIONAL LANDSCAPING IS PROPOSED AT THIS SITE.
11. ALL COAXIAL CABLE/FIBER AND DC CABLE INSTALLATION IS TO FOLLOW MANUFACTURER'S INSTRUCTION.

GREENFIELD GROUNDING NOTES:

ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.

CONNECTIONS TO THE GROUND BAR SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BAR ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1--#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

WIRING, RACEWAY & SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR APPROVED EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR APPROVED EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR APPROVED EQUAL); AND RATED NEMA 1 (OR BETTER).

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T WIRELESS".

PROJECT GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

TURF VENDOR-
CONTRACTOR-
OWNER-
OEM-

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

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL	ABOVE GRADE LEVEL
BTS	BASE TRANSCEIVER STATION
(E)	EXISTING
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
REF	REFERENCE
RF	RADIO FREQUENCY
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE RESOLVED
TYP	TYPICAL
REQ	REQUIRED
EGR	EQUIPMENT GROUND RING
AWG	AMERICAN WIRE GAUGE
MGB	MASTER GROUND BAR
EG	EQUIPMENT GROUND
BCW	BARE COPPER WIRE
SIAD	SMART INTEGRATED ACCESS DEVICE
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
RBS	RADIO BASE STATION

SYMBOLS:

	SOLID GROUND BUS BAR
	SOLID NEUTRAL BUS BAR
	SUPPLEMENTAL GROUND CONDUCTOR
	2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	CHEMICAL GROUND ROD
	TEST WELL
	DISCONNECT SWITCH
	METER



2 ASH STREET, SUITE #3000
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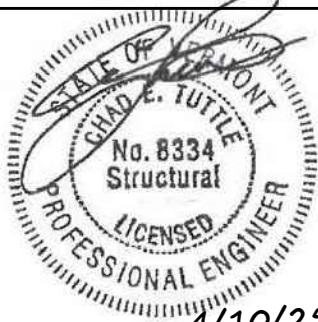
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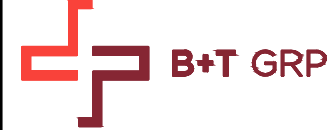
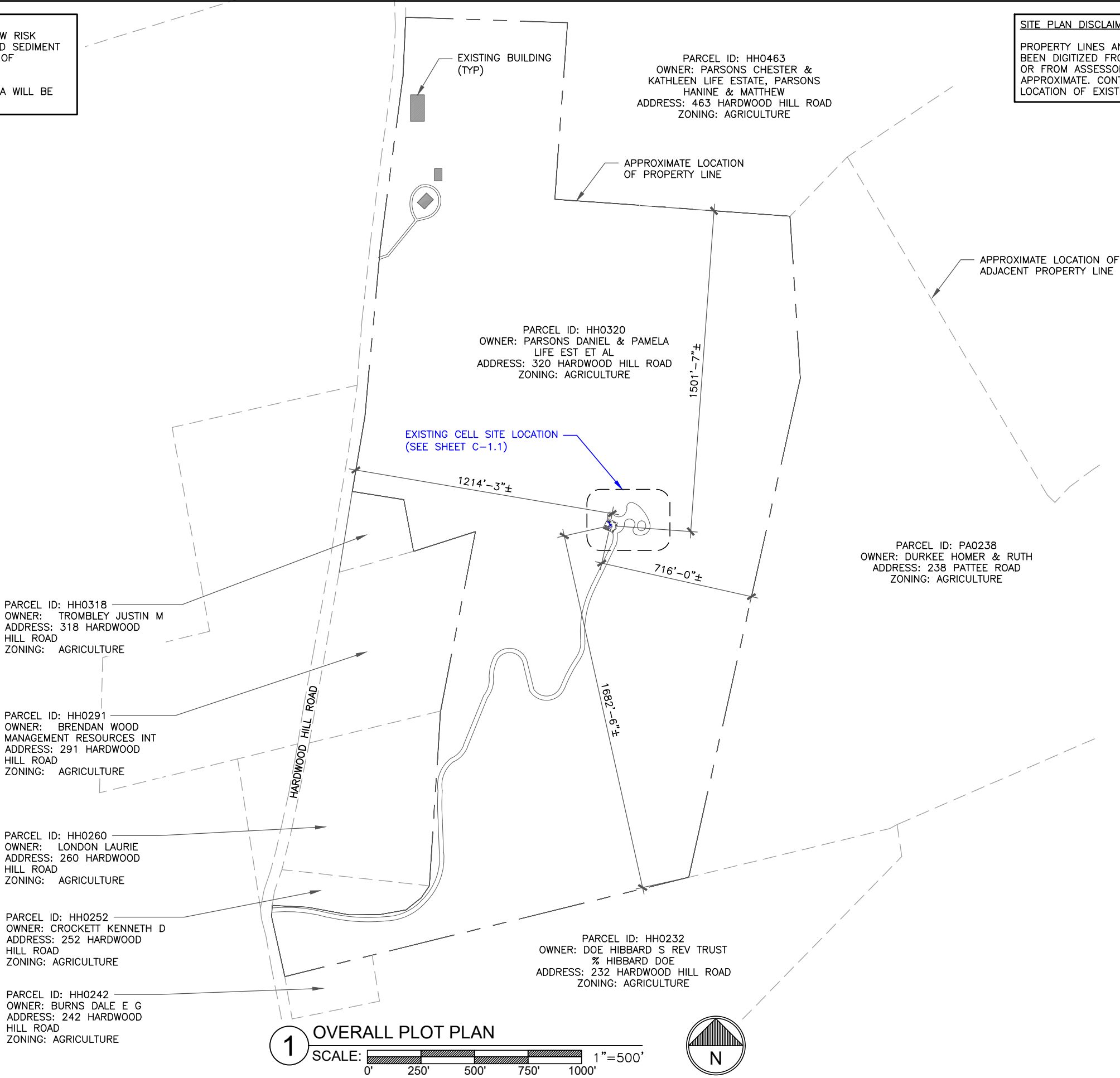
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174472.001.01.0001_14493105_VT1035.dwg - Sheet:C-1 - User: tim.grove - Apr 10, 2025 - 3:11pm

NOTES:
1. THE PROJECT WILL COMPLY WITH THE LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
2. NO ADDITIONAL IMPERVIOUS SURFACE AREA WILL BE ADDED TO THE SITE.

SITE PLAN DISCLAIMER:
PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS AND ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION OF EXISTING EQUIPMENT.

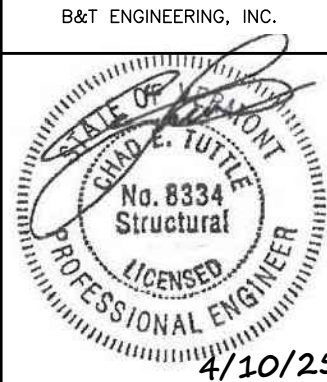


2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 210395
FA: 14493105
**RICHFORD HARDWOOD
HILL ROAD**
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

PROJECT NO: 174472.001.01
CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
C	2/13/25	JS	PRELIMINARY REVIEW
D	3/6/25	CP	PRELIMINARY REVIEW
0	3/28/25	CLS	CONSTRUCTION
1	4/10/25	CLS	CONSTRUCTION
2	4/10/25	CLS	CONSTRUCTION

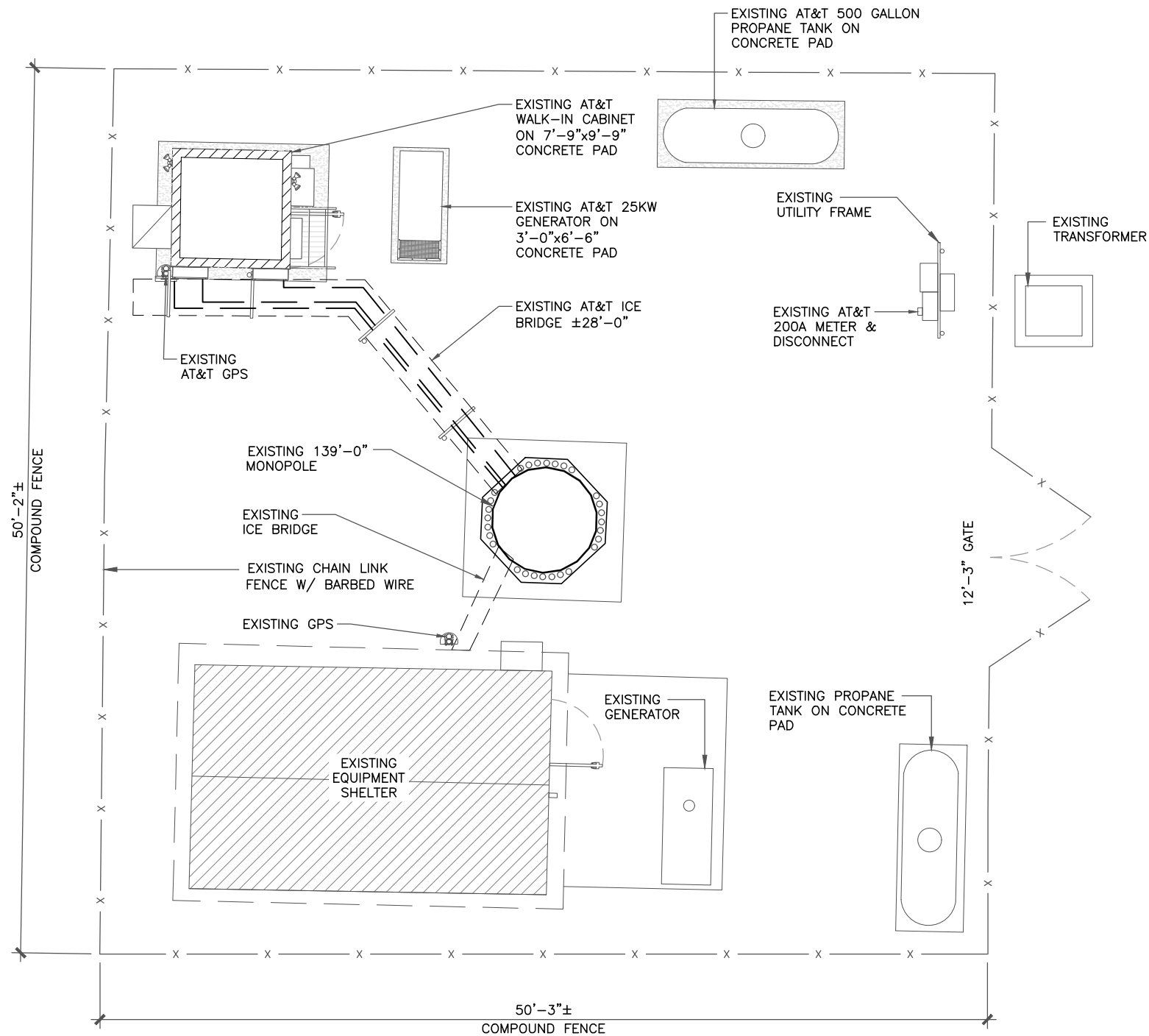


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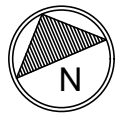
SHEET NUMBER: **C-1**
REVISION: **2**

174472.001.01.0001_14493105_VT1035.dwg - Sheet: C-1.1 - User: tim.grove - Apr 10, 2025 - 3:11pm

1. THE SUBCONTRACTOR SHALL GIVE ALL NOTICES AND REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE SUBCONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID SUBCONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE SUBCONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE AT&T REPRESENTATIVE (B&T ENGINEERING) OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF SUBCONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE SUBCONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIAL AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE SUBCONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE SUBCONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS INFORMED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE SUBCONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS, AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEERING, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE SUBCONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL REPAIR ANY DAMAGE THE MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE SUBCONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
13. THE SUBCONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE SUBCONTRACTOR SHALL NOTIFY THE AT&T REPRESENTATIVE (B&T ENGINEERING) WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE SUBCONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE AT&T REPRESENTATIVE (B&T ENGINEERING).
15. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOBS.



1 OVERALL SITE PLAN
SCALE: 0' 1' 4' 8' 20'



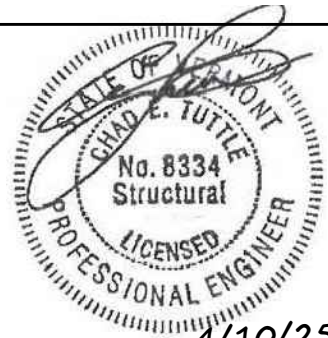
2 ASH STREET, SUITE #3000
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FA: 14493105
**RICHFORD HARDWOOD
HILL ROAD**
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

PROJECT NO: 174472.001.01
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SHEET NUMBER: C-1.1
REVISION: 2

GROUND SCOPE OF WORK

MONOPOLE, SHELTER
EXISTING ANT AZ - A 90 B 210 C 330
PROPOSED ANT AZ - A 90 B 210 C 330

CIVIL SOW:

- 1. INSTALL (5) NEW RECTIFIERS
- 2. INSTALL //E BBU(S) AND CONTROLLER



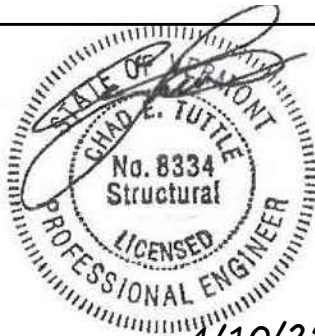
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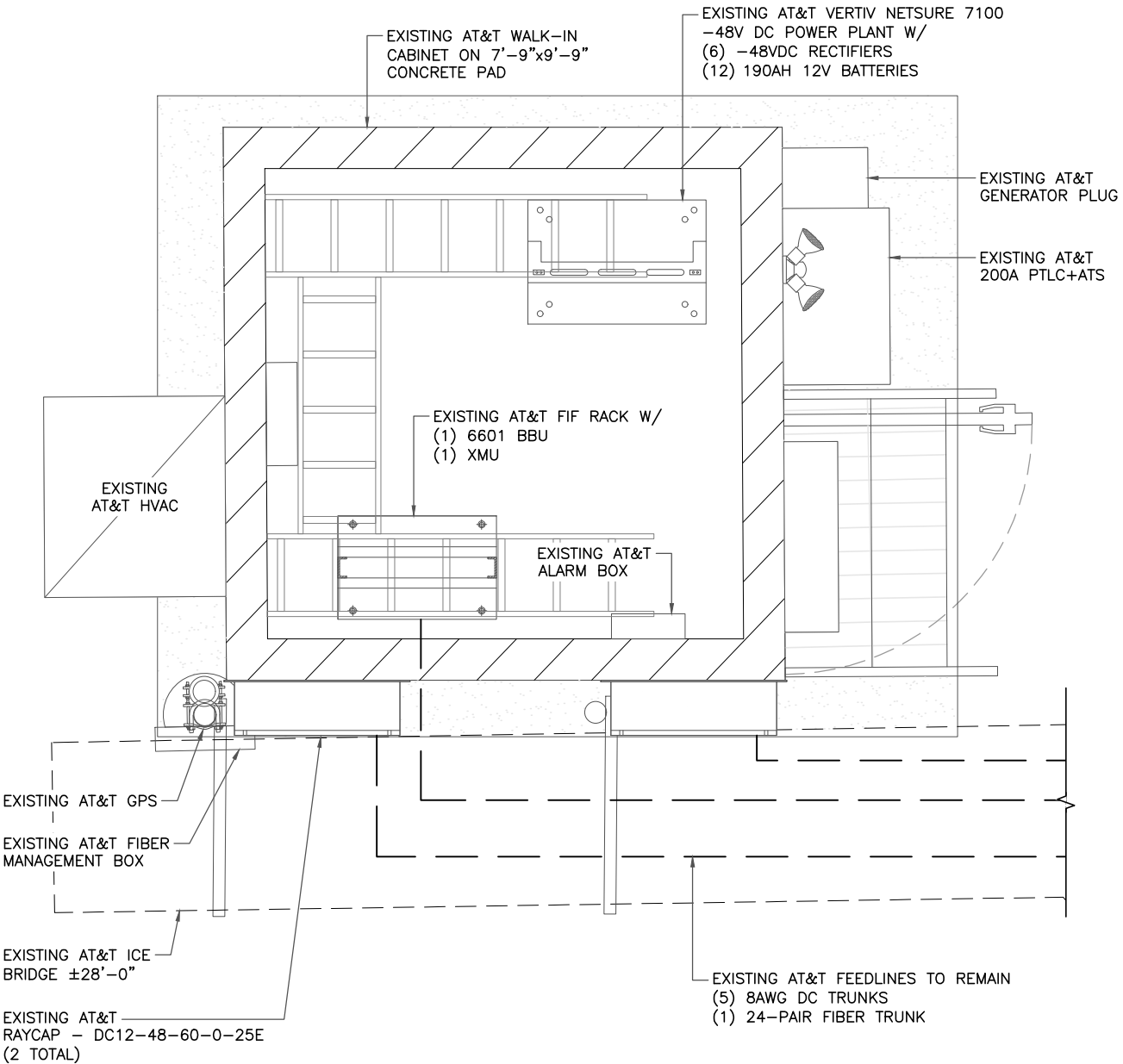
B&T ENGINEERING, INC.



4/10/25

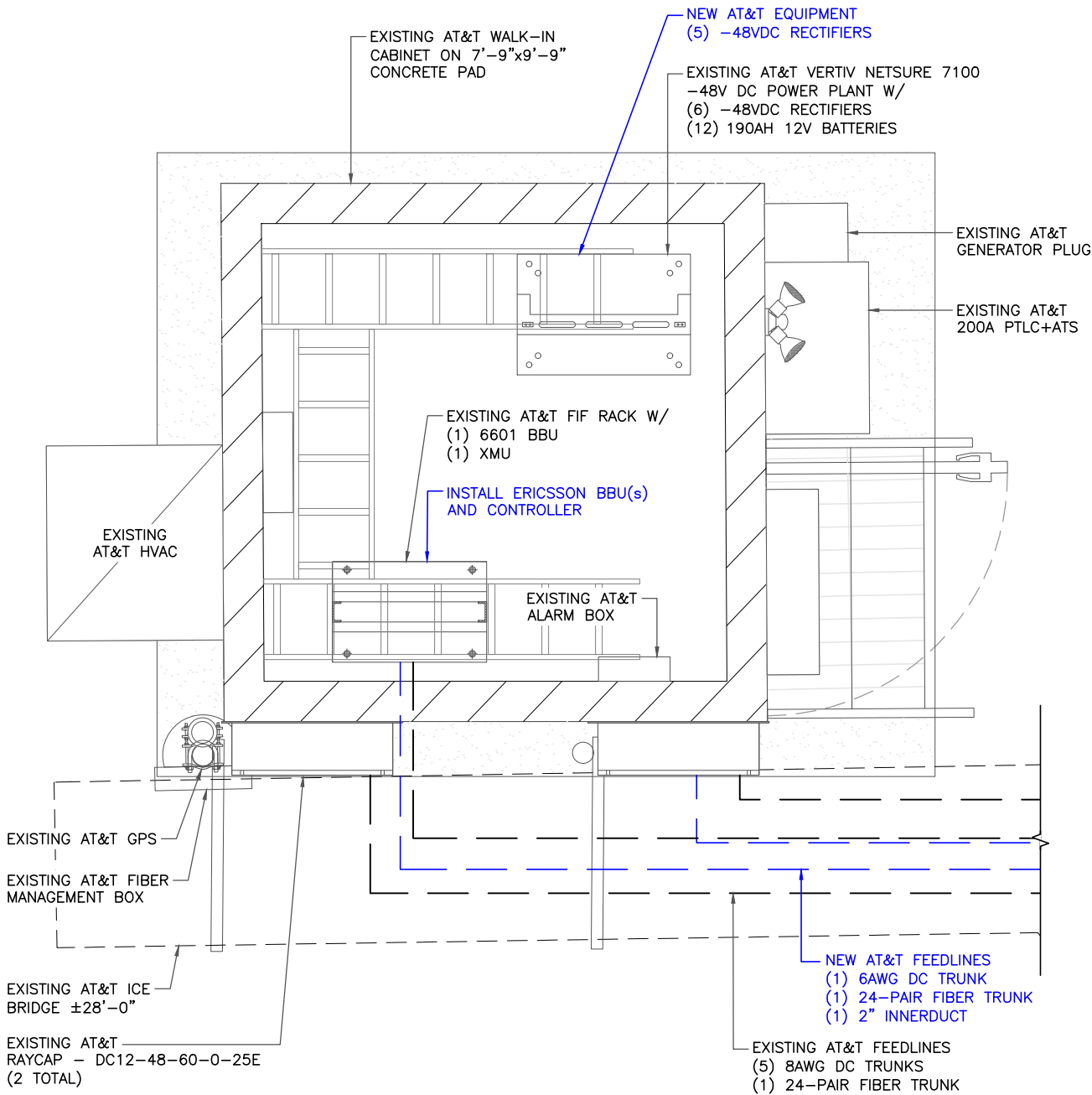
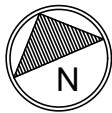
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SHEET NUMBER: C-2
REVISION: 2



1 EXISTING EQUIPMENT PLAN

SCALE: 0' 1' 2' 3' 4' 5'



2 FINAL EQUIPMENT PLAN

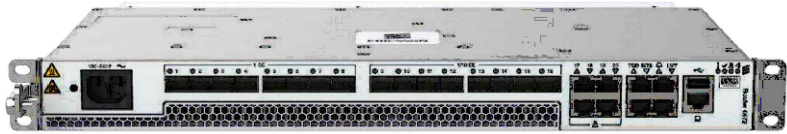
SCALE: 0' 1' 2' 3' 4' 5'





VERTIV – R48–2000e3 eSURE RECTIFIER (NEQ. 15930)
WEIGHT: 2.49 LBS
SIZE (HxWxD): 1.61x3.33x9.94 IN.

1 RECTIFIER DETAIL
SCALE: N.T.S.

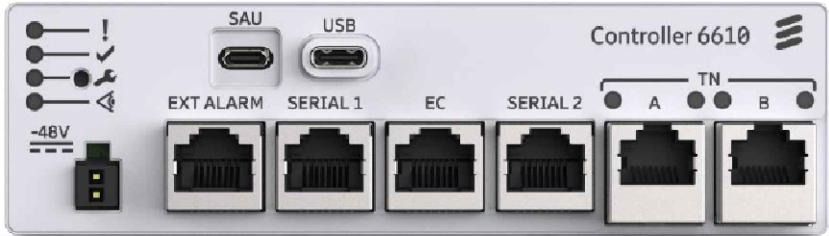


Mechanical
System weight: 6kg / 13.2lbs
Dimension (H x W x D): 1RU 43.6mm x 442.4mm x 250mm
Air flow: Filter-less design, Front to Back with field swappable fan tray

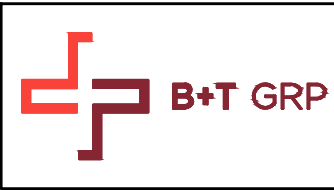
Electrical
Power supply DC: -48 V, dual feed
Power supply AC: 100-240 V, single feed
Power consumption: Typical 110 Watts, Max 165 Watts

2 6672 BBU CARD
SCALE: N.T.S.

CONTROLLER 6610:
MANUFACTURER: ERICSSON
MODEL NO: CONTROLLER 6610
DIMENSIONS (HxWxD): 1.6"x5.5"x1.26"
WEIGHT: 0.28LBs



3 6610 SITE CONTROLLER
SCALE: N.T.S.



USID: 210395
FA: 14493105

**RICHFORD HARDWOOD
HILL ROAD**

254 HARDWOOD HILL ROAD
RICHFORD, VT 05476

EXISTING MONOPOLE

PROJECT NO:	174472.001.01
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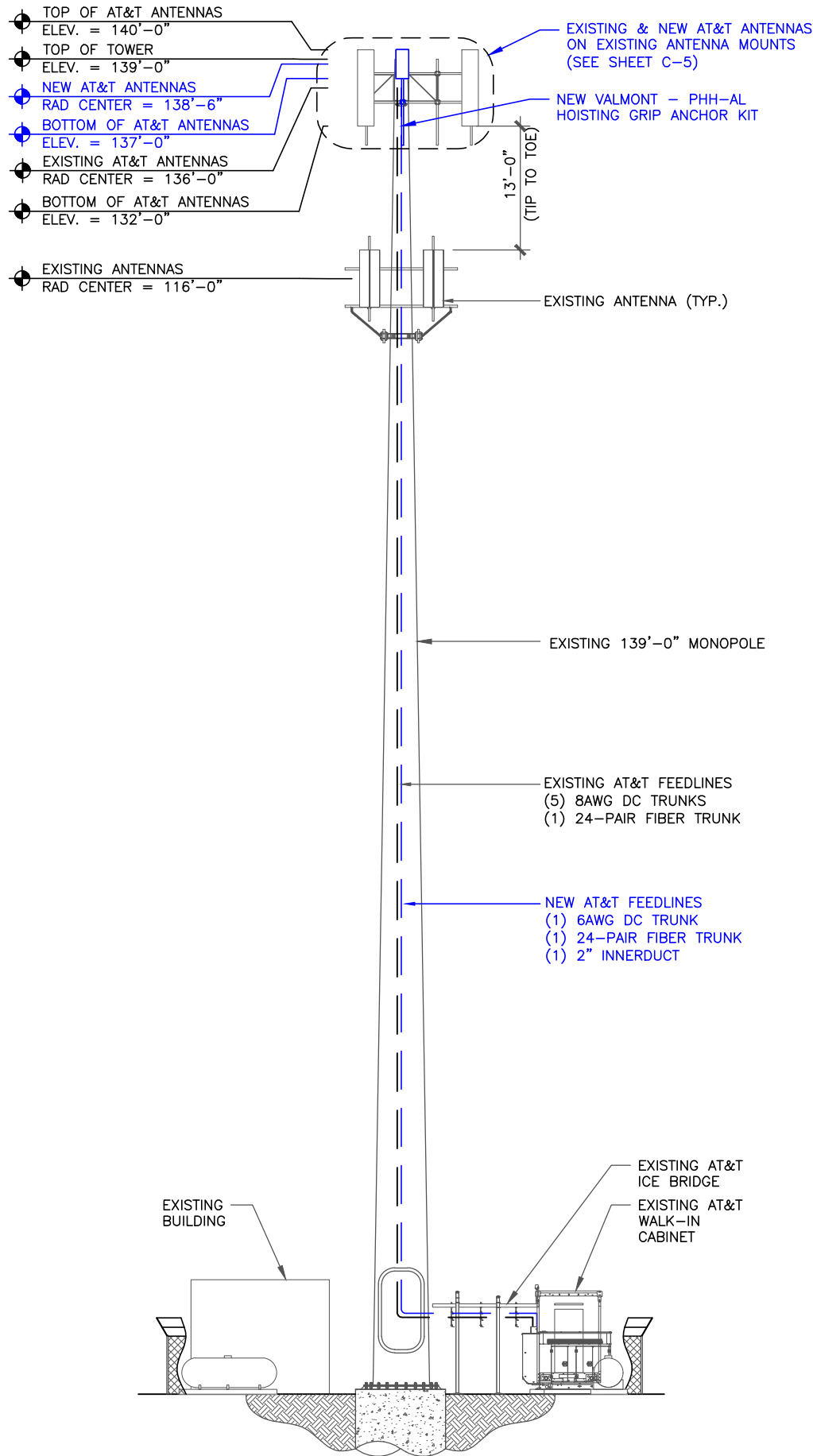
SHEET NUMBER:	REVISION:
C-3	2

4 NOT USED
SCALE: N.T.S.

5 NOT USED
SCALE: N.T.S.

6 NOT USED
SCALE: N.T.S.

174472.001.01.0001_14493105_VT1035.dwg - Sheet:C-4 - User: tim.grove - Apr 10, 2025 - 3:11pm



1 SOUTHEAST TOWER ELEVATION
SCALE: 0' 8' 16' 32' 48'

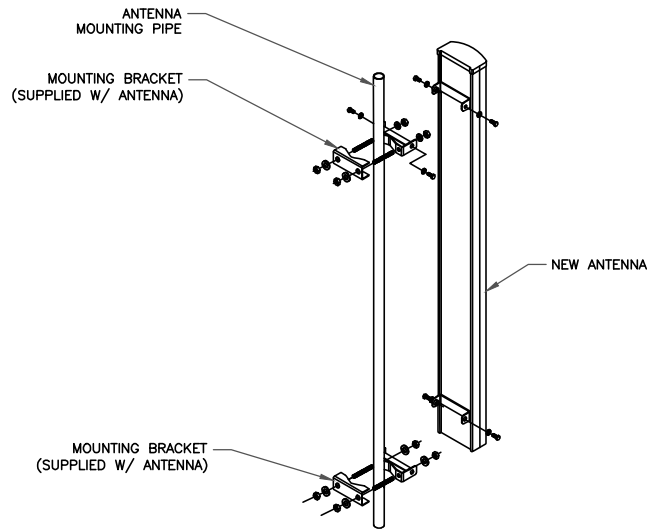
NOTE:
THESE DRAWINGS ARE NOT INTENDED TO REFLECT THE STRUCTURAL INTEGRITY OF THE TOWER. THE PROPOSED ANTENNAS AND TRANSMISSION LINES SHOWN ARE REPRESENTATIVE IN NATURE AND DO NOT REFLECT THE ACTUAL CONFIGURATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO THE STRUCTURAL ANALYSIS OF THIS TOWER SITE FOR THE APPROVED LOCATION AND CONFIGURATION OF ALL ANTENNAS AND TRANSMISSION LINES. ALL ANTENNAS MUST BE MOUNTED AND THE TRANSMISSION LINES CONFIGURED IN STRICT ACCORDANCE WITH THE STRUCTURAL ANALYSIS.

NOTE:
AIR ANTENNAS SHALL BE WRAPPED TO MATCH EXISTING.

EXISTING MOUNT TO BE MODIFIED PER MOUNT ANALYSIS BY B+T GROUP DATED 2/11/25.

2 NOT USED
SCALE: N.T.S.

INSTALLER NOTE:
ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



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

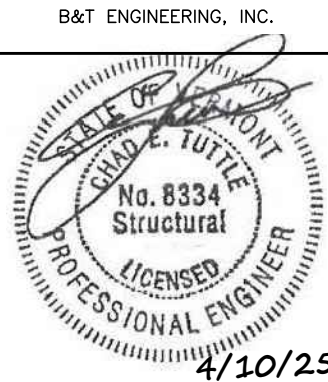


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**RICHFORD HARDWOOD
HILL ROAD**
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

PROJECT NO: 174472.001.01
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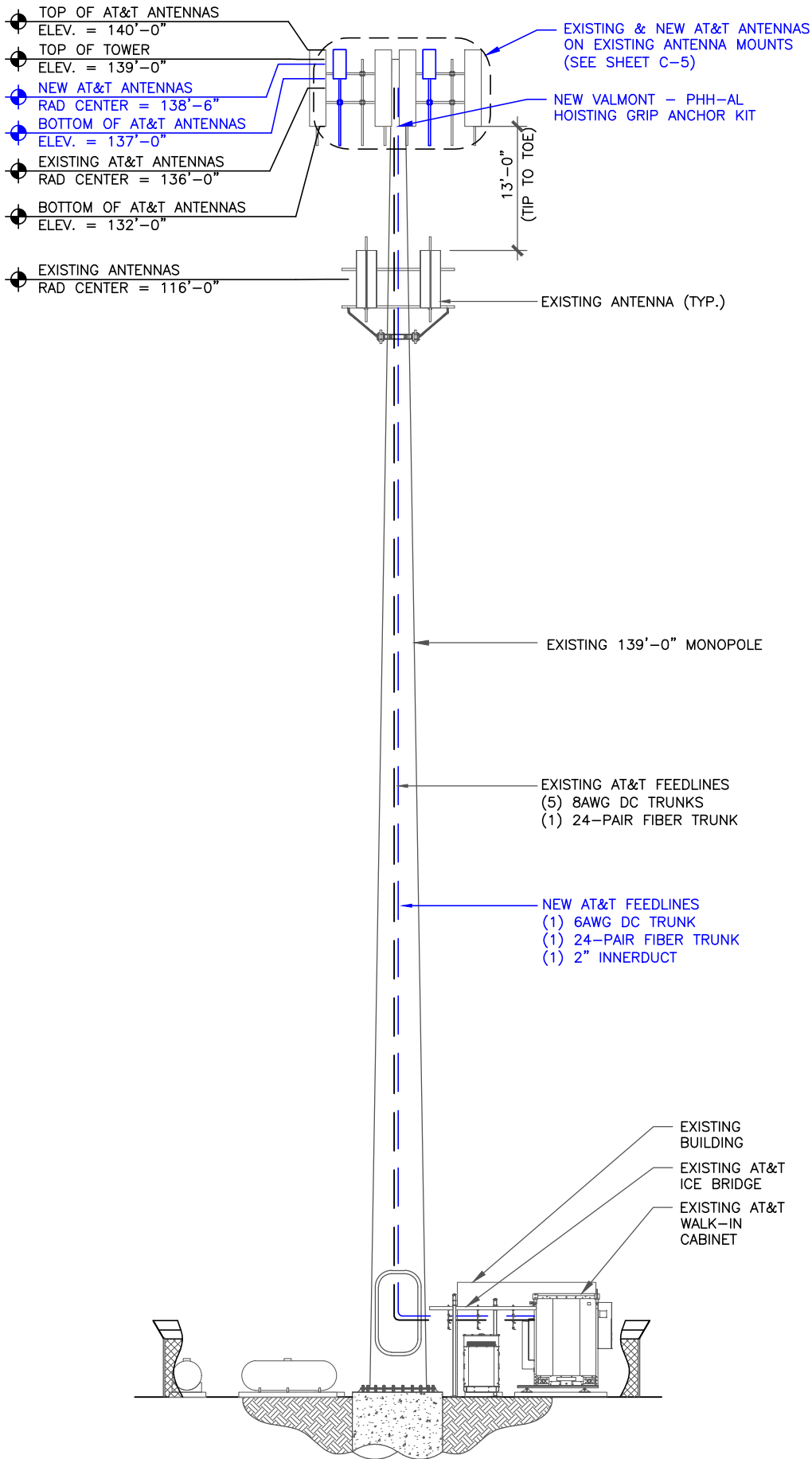
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SHEET NUMBER: C-4
REVISION: 2

174472.001.01.0001_14493105_VT1035.dwg - Sheet:C-4.1 - User: tim.grove - Apr 10, 2025 - 3:11pm

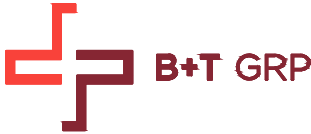


1 NORTHEAST TOWER ELEVATION
SCALE: 0' 8' 16' 32' 48'

NOTE:
THESE DRAWINGS ARE NOT INTENDED TO REFLECT THE STRUCTURAL INTEGRITY OF THE TOWER. THE PROPOSED ANTENNAS AND TRANSMISSION LINES SHOWN ARE REPRESENTATIVE IN NATURE AND DO NOT REFLECT THE ACTUAL CONFIGURATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO THE STRUCTURAL ANALYSIS OF THIS TOWER SITE FOR THE APPROVED LOCATION AND CONFIGURATION OF ALL ANTENNAS AND TRANSMISSION LINES. ALL ANTENNAS MUST BE MOUNTED AND THE TRANSMISSION LINES CONFIGURED IN STRICT ACCORDANCE WITH THE STRUCTURAL ANALYSIS.

NOTE:
AIR ANTENNAS SHALL BE WRAPPED TO MATCH EXISTING.

EXISTING MOUNT IS SUFFICIENT PER MOUNT ANALYSIS BY B+T GROUP DATED 4/2/25.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

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**RICHFORD HARDWOOD
HILL ROAD**
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

PROJECT NO: 174472.001.01
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B&T ENGINEERING, INC.

4/10/25

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REVISION: 2

174472.001.01.0001_14493105_VT1035.dwg - Sheet:C-4.2 - User: tim.grove - Apr 10, 2025 - 3:11pm

PROJECT INFORMATION & DIMENSION CHART													
	EXISTING						PROPOSED						NET INCREASE (SQ. FT)
	EQUIPMENT	DIMENSION (INCHES)			QTY	VISIBLE AREA (SQ. FT.)	EQUIPMENT	DIMENSIONS (INCHES)			QTY	VISIBLE AREA (SQ. FT.)	
		H	x	W				H	x	W			
SURFACE AREA OF THE FACES OF ANTENNAS ON SUPPORT STRUCTURE	ANTENNA: TPA65R–BU8DA–K	96.00	x	20.7	3	41.40	ANTENNA: AIR6472 B77G B77M	36.4	x	16.1	3	12.21	
	ANTENNA: DMP65R–BU8DA–K	96.0	x	20.7	3	41.40	4490 B5/B12A	20.6	x	15.6	3	6.70	
	SURGE SUPPRESSOR	31.25	x	11.00	2	4.77	EXISTING EQUIPMENT REMAINING						
	4478 B14	18.1	x	13.4	3	5.05	SURGE SUPPRESSOR	31.25	x	11.00	2	4.77	
	4415 B30	15.0	x	13.0	3	4.06	ANTENNA: TPA65R–BU8DA–K	96.00	x	20.7	3	41.40	
	8843 B2/B66A	18.0	x	13.2	3	4.95	ANTENNA: DMP65R–BU8DA–K	96.0	x	20.7	3	41.40	
	4478 B5	15.0	x	13.0	3	4.06	4478 B14	18.1	x	13.4	3	5.05	
							4415 B30	15.0	x	13.0	3	4.06	
							8843 B2/B66A	18.0	x	13.2	3	4.95	
	TOTAL VISIBLE AREA: 105.69						TOTAL VISIBLE AREA: 120.54						14.85
VERTICAL EXTENSION FROM EXISTING SUPPORT STRUCTURE	APPROX. 1’–0”						APPROX. 1’–0”						N/C
HORIZONTAL EXTENSION FROM EXISTING SUPPORT STRUCTURE	APPROX. 8’–7”						APPROX. 8’–6”						–0’–1”
AMOUNT OF IMPERVIOUS SURFACE BEING ADDED TO SITE	0 SQ. FT.						0 SQ. FT.						

1

PROJECT INFORMATION & DIMENSION CHART
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 210395
FA: 14493105

RICHFORD HARDWOOD
HILL ROAD

254 HARDWOOD HILL ROAD
RICHFORD, VT 05476

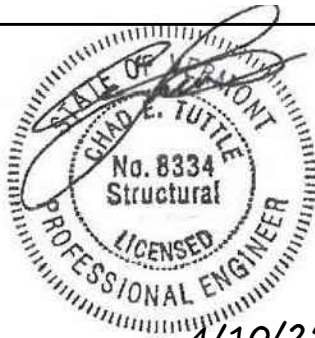
EXISTING MONOPOLE

PROJECT NO: 174472.001.01

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4/10/25

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SHEET NUMBER:
C-4.2

REVISION:
2

TOWER SCOPE OF WORK

MONOPOLE, SHELTER
EXISTING ANT AZ - A 90 B 210 C 330
PROPOSED ANT AZ - A 90 B 210 C 330

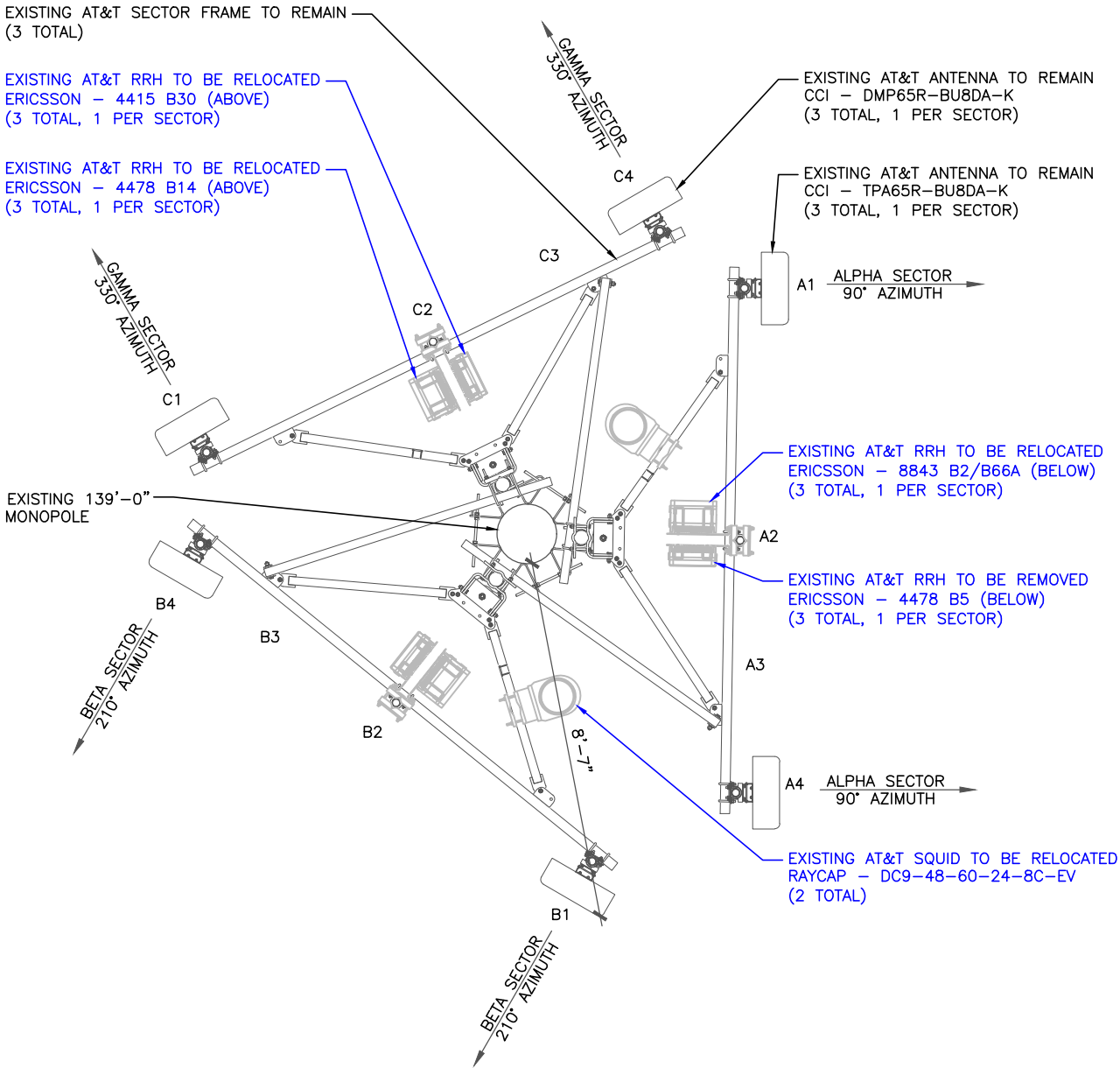
TOWER TOP SOW:

- 1. REMOVE (3) 4478 B5 RADIOS.
- 2. INSTALL (3) AIR 6472 B77G B77M ANTENNAS IN POS A3/B3/C3 ON MOUNT, ANTENNAS WRAPPED TO MATCH EXISTING.
- 3. INSTALL (3) E/// 4490 B5/B12A RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW COMMSCOPE RR-FA2 BACK-TO-BACK BRACKET.
- 4. INSTALL (6) 2" STD. X 10'-6" LONG COMMSCOPE - MT-537 EQUIPMENT PIPE W/ (12) XP-2020 CROSSOVER HARDWARE KITS.

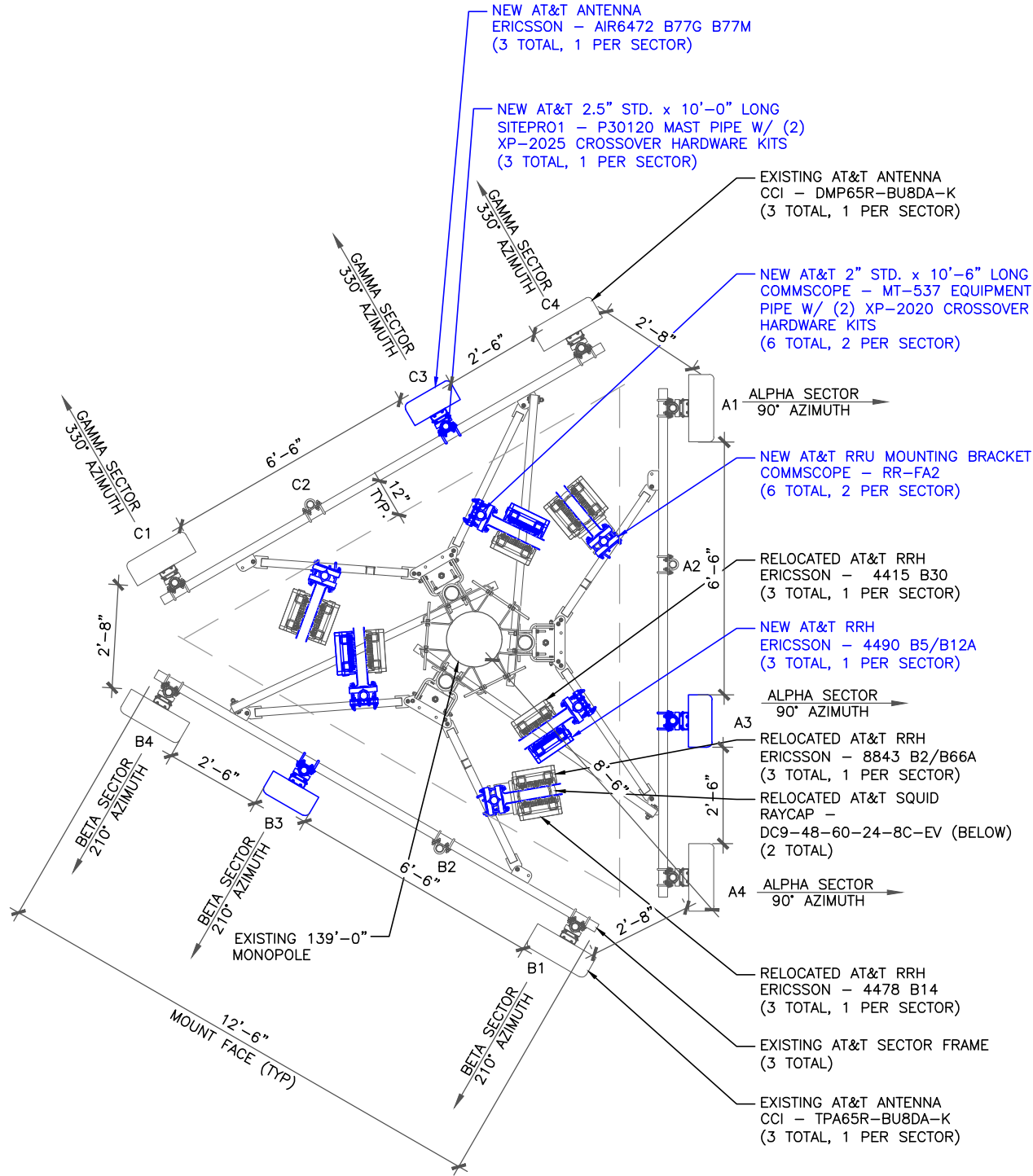
- 5. INSTALL (3) 2.5" STD. X 10'-0" LONG SITEPRO1 - P30120 MAST PIPES W/ (6) XP-2025 CROSSOVER HARDWARE KITS.
- 6. RELOCATE (3) 8843 B2/B66A RADIOS.
- 7. RELOCATE (3) 4415 B30 RADIOS.
- 8. RELOCATE (3) 4478 B14 RADIOS.
- 9. RELOCATE (2) DC9-48-60-24-8C-EV SQUIDS.
- 10. INSTALL (1) 6AWG DC TRUNK.
- 11. INSTALL (1) 24-PAIR FIBER TRUNK.

NOTE:

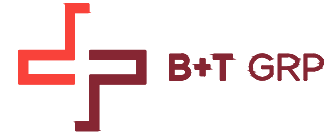
RELOCATE EXISTING MOUNT PIPES AND
INSTALL PROPOSED MOUNT PIPES AS PER
REQUIREMENTS SET BY ATT-790-202-083



1 EXISTING ANTENNA PLAN
SCALE: 0' 1' 2' 4' 10'



2 FINAL ANTENNA PLAN
SCALE: 0' 1' 2' 4' 10'



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SHEET NUMBER: C-5
REVISION: 2

174472.001.01.0001_14493105_VT1035.dwg - Sheet:C-6 - User: tim.grove - Apr 10, 2025 - 3:11pm

SECTOR	ANTENNA POSITION	TECHNOLOGY	ANTENNA VENDOR	ANTENNA MODEL	AZIMUTH	RAD CENTER	RRH (QTY) MODEL	SURGE PROTECTION W/ (QTY) FIBER (QTY) DC	FEEDER LENGTH
ALPHA	A1	LTE 700/1900/AWS	CCI	TPA65R-BU8DA-K (96"x20.7"x7.7")	90°	136'-0"	(1) 4478 B14 (18.1"x13.4"x8.26") (1) 8843 B2/B66A (18.0"x13.2"x11.3")	(1) DC9-48-60-24-8C-EV (1) 24-PAIR FIBER (3) 8AWG DC	170'-0"
	A2	-	-	-	-	-	-		
	A3	CBAND/DOD	ERICSSON	AIR6472 B77G B77M (36.4"x16.1"x7.5")	90°	138'-6"	INTEGRATED WITHIN		
	A4	LTE 700/850/WCS	CCI	DMP65R-BU8DA-K (96"x20.7"x7.7")	90°	136'-0"	(1) 4415 B30 (15.0"x13.0"x8.0") (1) 4490 B5/B12A (20.6"x15.6"x7")		
BETA	B1	LTE 700/1900/AWS	CCI	TPA65R-BU8DA-K (96"x20.7"x7.7")	210°	136'-0"	(1) 4478 B14 (18.1"x13.4"x8.26") (1) 8843 B2/B66A (18.0"x13.2"x11.3")	(1) DC9-48-60-24-8C-EV (2) 8AWG DC (1) 24-PAIR FIBER (1) 6AWG DC	170'-0"
	B2	-	-	-	-	-	-		
	B3	CBAND/DOD	ERICSSON	AIR6472 B77G B77M (36.4"x16.1"x7.5")	210°	138'-6"	INTEGRATED WITHIN		
	B4	LTE 700/850/WCS	CCI	DMP65R-BU8DA-K (96"x20.7"x7.7")	210°	136'-0"	(1) 4415 B30 (15.0"x13.0"x8.0") (1) 4490 B5/B12A (20.6"x15.6"x7")		
GAMMA	C1	LTE 700/1900/AWS	CCI	TPA65R-BU8DA-K (96"x20.7"x7.7")	330°	136'-0"	(1) 4478 B14 (18.1"x13.4"x8.26") (1) 8843 B2/B66A (18.0"x13.2"x11.3")	-	-
	C2	-	-	-	-	-	-		
	C3	CBAND/DOD	ERICSSON	AIR6472 B77G B77M (36.4"x16.1"x7.5")	330°	138'-6"	INTEGRATED WITHIN		
	C4	LTE 700/850/WCS	CCI	DMP65R-BU8DA-K (96"x20.7"x7.7")	330°	136'-0"	(1) 4415 B30 (15.0"x13.0"x8.0") (1) 4490 B5/B12A (20.6"x15.6"x7")		

NOTES:

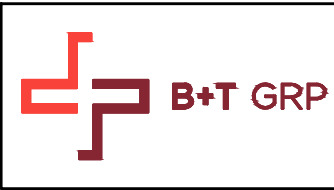
1. VERIFY ANTENNA DIMENSIONS WITH MANUFACTURER.
2. VERIFY FINAL ANTENNA MODEL WITH CURRENT VERSION OF THE AT&T RFDS.
3. ALL FEEDLINE LENGTHS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
4. BLUE DENOTES NEW EQUIPMENT.

UNUSED FEEDLINES		
(QTY) TYPE	SIZE	LENGTH
-	-	-

1

ANTENNA & CABLE SCHEDULE

SCALE: N.T.S.



USID: 210395
FA: 14493105

RICHFORD HARDWOOD
HILL ROAD

254 HARDWOOD HILL ROAD
RICHFORD, VT 05476

EXISTING MONOPOLE

PROJECT NO:	174472.001.01
CHECKED BY:	TDG

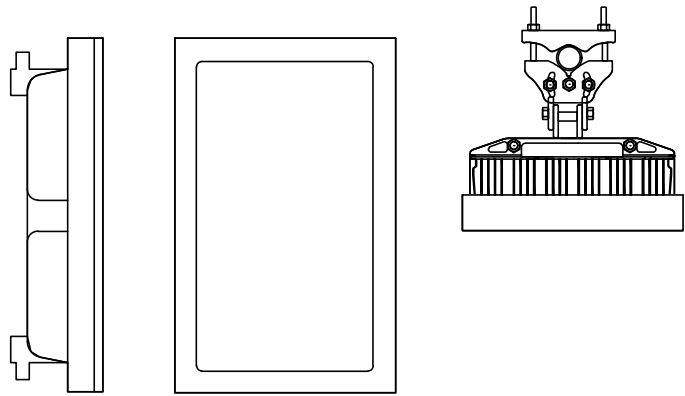
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C	2/13/25	JS	PRELIMINARY REVIEW
D	3/6/25	CP	PRELIMINARY REVIEW
0	3/28/25	CLS	CONSTRUCTION
1	4/10/25	CLS	CONSTRUCTION
2	4/10/25	CLS	CONSTRUCTION

B&T ENGINEERING, INC.

4/10/25

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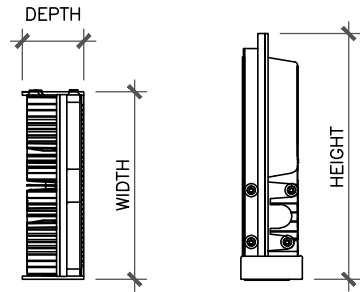
SHEET NUMBER:	REVISION:
C-6	2



ERICSSON – AIR6472 B77G B77M
WEIGHT: 98.0 LBS
SIZE (HxWxD): 36.4x16.1x7.5 IN.

1 ANTENNA DETAIL
SCALE: N.T.S.

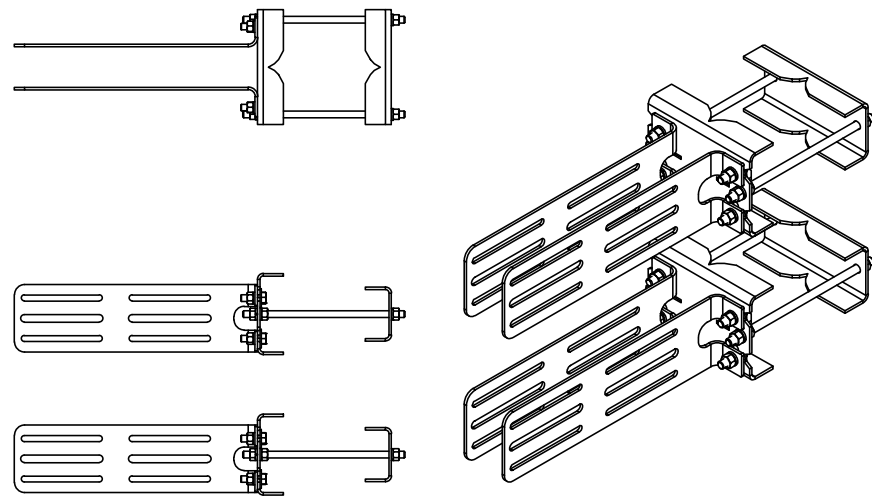
2 NOT USED
SCALE: N.T.S.



ERICSSON – RADIO 4490 B5/B12A
WEIGHT: 65.0 LBS
SIZE (HxWxD): 20.6x15.6x7.0 IN.

3 RRH DETAIL
SCALE: N.T.S.

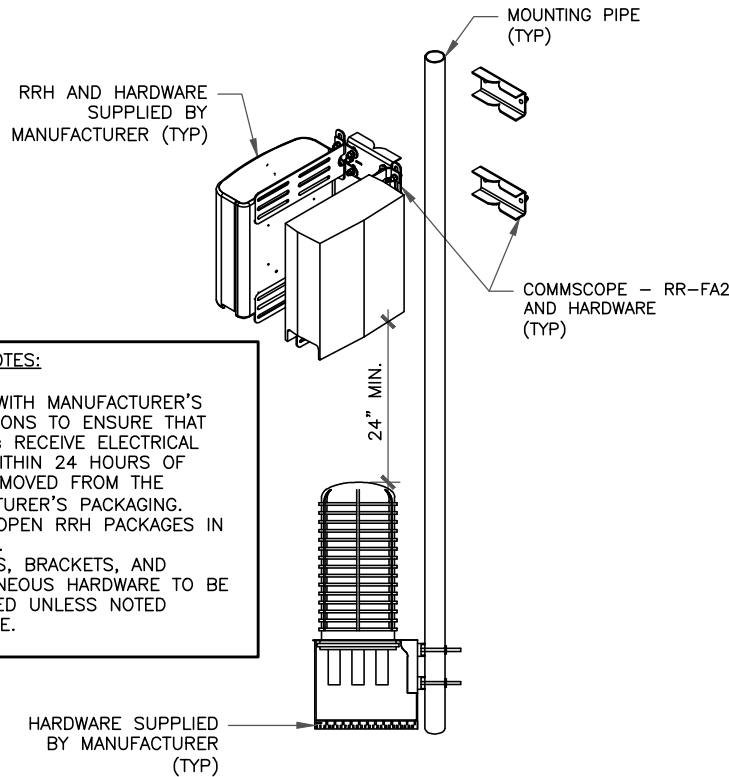
- MOUNTING NOTES:**
- REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES.
 - THE PART NO. RR-FA2 (OR APPROVED EQUAL) IS REQUIRED FOR (2) RRHs.



COMMSCOPE – RR-FA2
FAST ACCESS DUAL RRH MOUNT

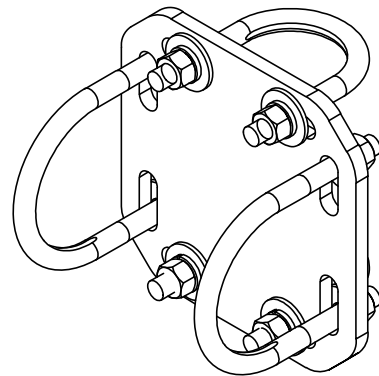
4 DUAL RRH MOUNT BRACKET DETAIL
SCALE: N.T.S.

- INSTALLER NOTES:**
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 - DO NOT OPEN RRH PACKAGES IN THE RAIN.
 - ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



5 DUAL RRH MOUNTING DETAIL
SCALE: N.T.S.

PRODUCT	PLATE (QTY 1)	U-BOLT #1	QTY	U-BOLT #2	QTY
XP-2020	XPU01	GUB-4240	4	-	-
XP-2025	XPU01	GUB-4240	2	GUB-4352	2
XP-2030	XPU01	GUB-4240	2	GUB-4355	2
XP-2035	XPU02	GUB52440	2	GUB-53560	2
XP-2040	XPU02	GUB52440	2	GUB-5456	2
XP-2525	XPU01	GUB-4352	4	-	-
XP-2530	XPU01	GUB-4352	2	GUB-4355	2
XP-2540	XPU02	GUB-53045	2	GUB-5456	2
XP-3030	XPU01	GUB-4355	4	-	-
XP-3040	XPU02	GUB-53560	2	GUB-5456	2
XP-4040	XPU02	GUB-5456	4	-	-



6 COMMSCOPE - XP-2020 & XP-2025
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 210395
FA: 14493105
**RICHFORD HARDWOOD
HILL ROAD**
254 HARDWOOD HILL ROAD
RICHFORD, VT 05476
EXISTING MONOPOLE

PROJECT NO: 174472.001.01
CHECKED BY: TDG

ISSUED FOR:			
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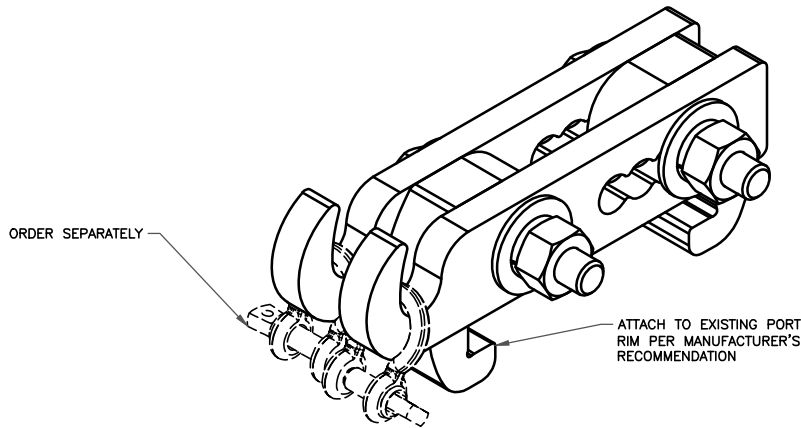
SHEET NUMBER: C-7
REVISION: 2

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1 NOT USED
SCALE: N.T.S.

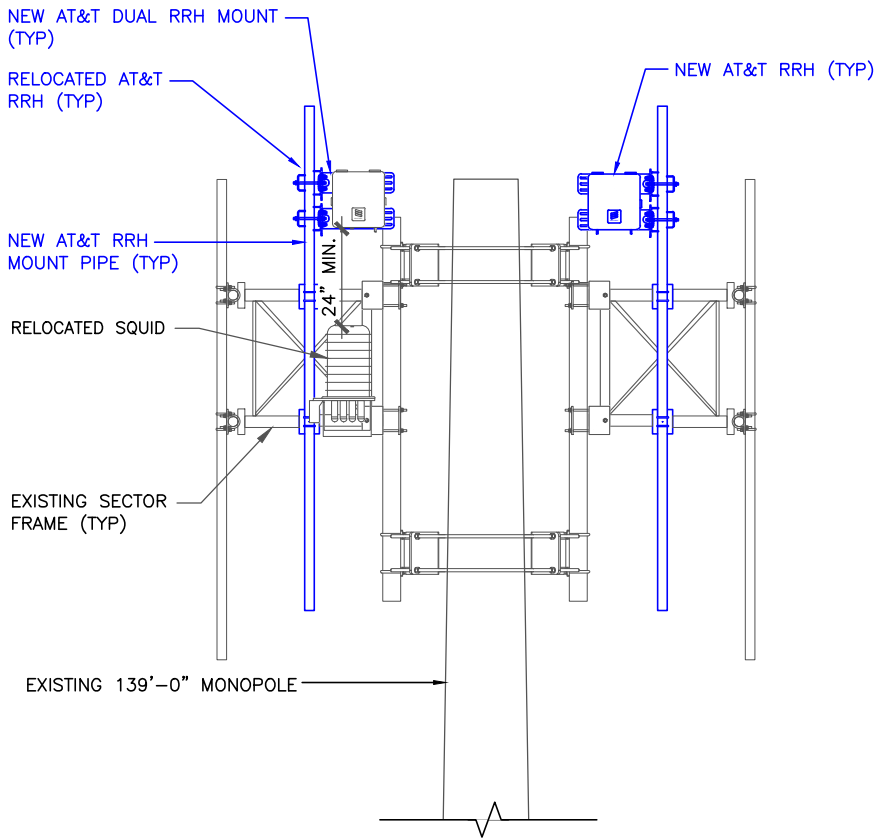
2 NOT USED
SCALE: N.T.S.

NOTE: - REFERENCE MANUFACTURER DRAWINGS FOR FULL SPECIFICATIONS



FINISH:
HOT DIP GALVANIZED.

3 VALMONT - PHH-AL
SCALE: N.T.S.



4 VERTICAL RRH & SQUID PLACEMENT DETAIL
SCALE: N.T.S.



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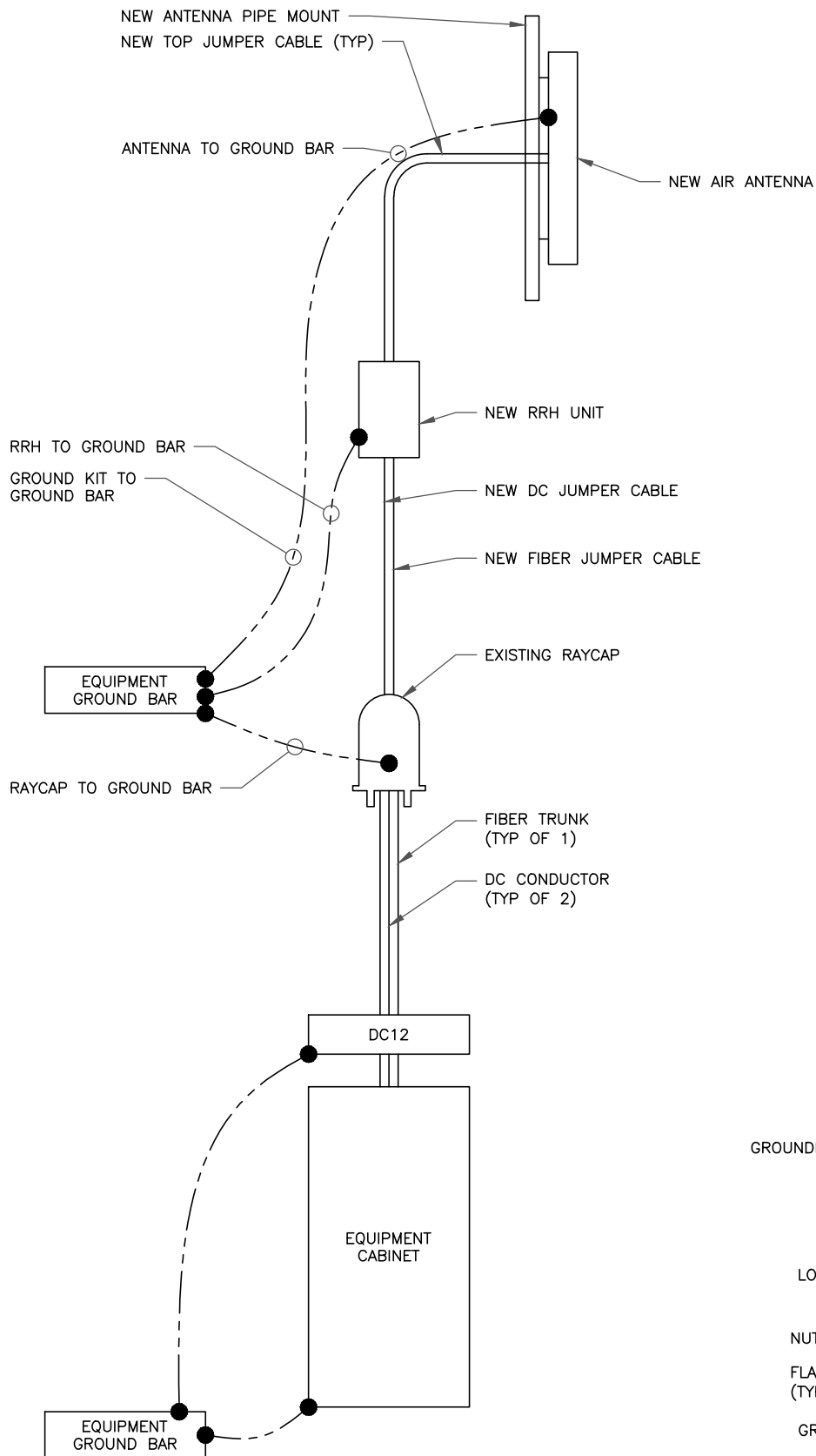
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4/10/25

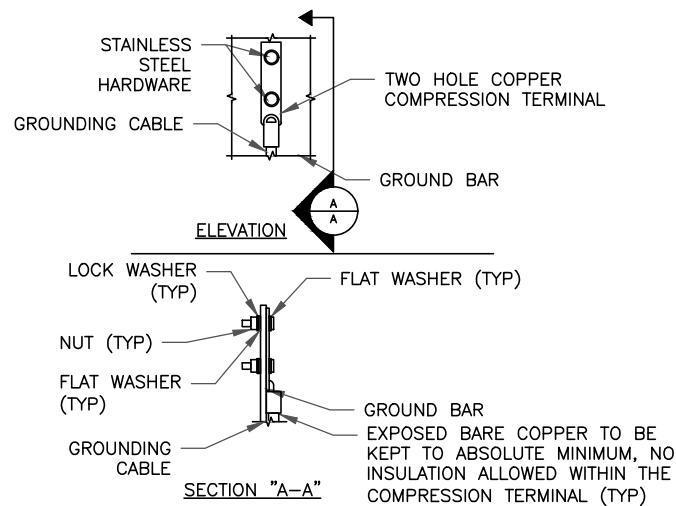
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SHEET NUMBER: C-7.1
REVISION: 2

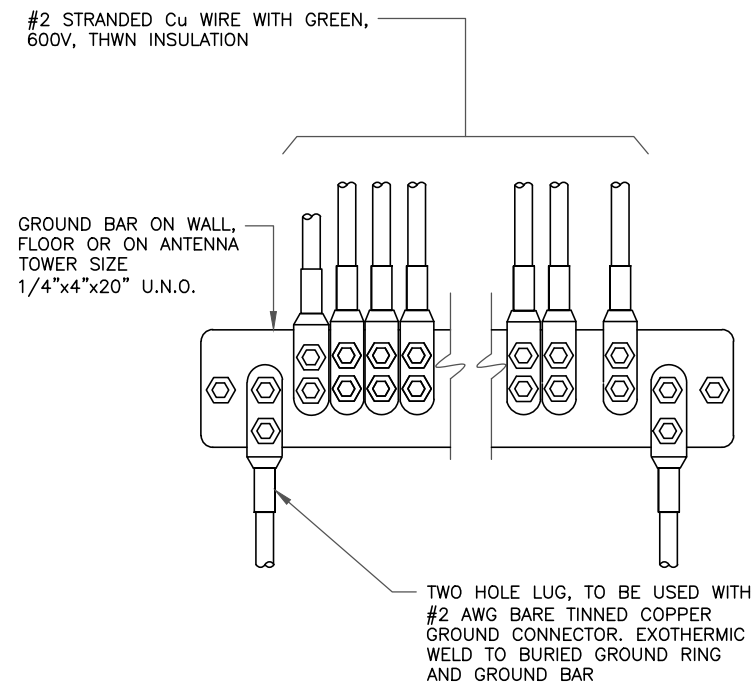
174472.001.01.0001_14493105_VT1035.dwg - Sheet:G-1 - User: tim.grove - Apr 10, 2025 - 3:11pm



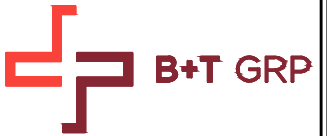
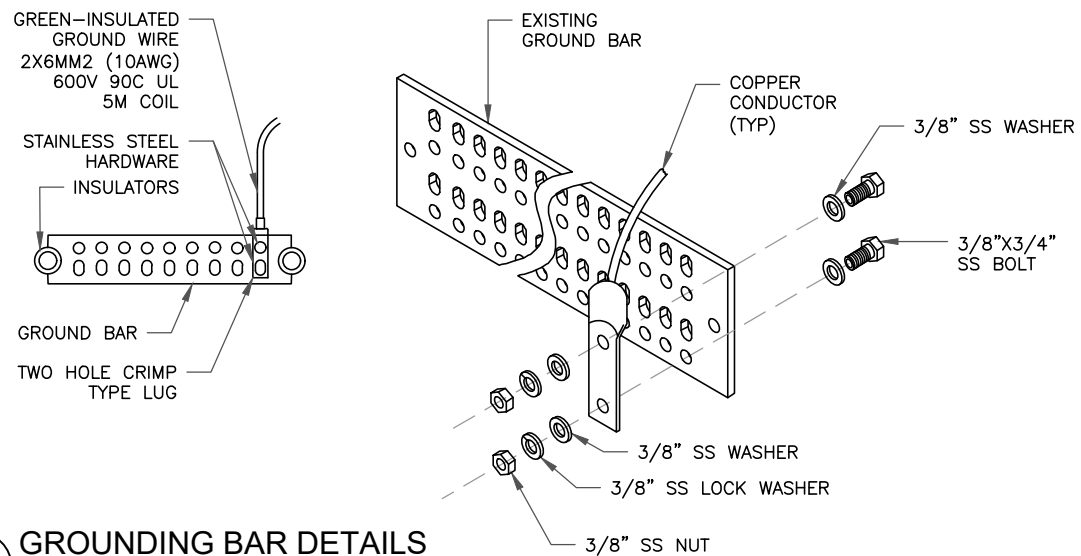
1 GROUNDING SCHEMATIC
SCALE: N.T.S.



3 GROUNDING BAR DETAILS
SCALE: N.T.S.



2 INSTALLATION OF GROUND WIRE TO GROUND BAR
SCALE: N.T.S.

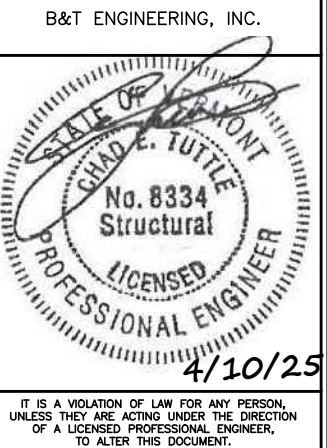


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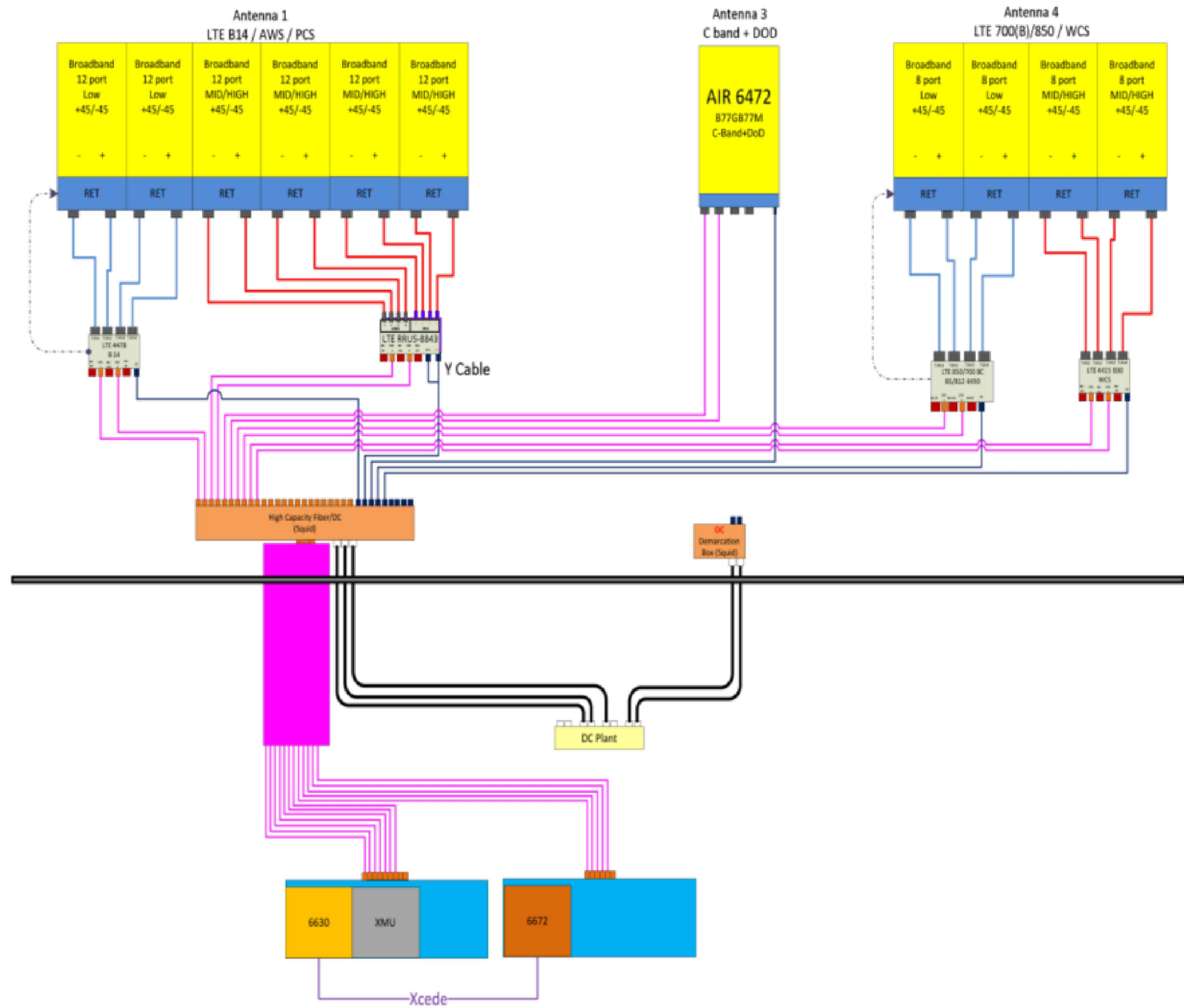
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SHEET NUMBER: **G-1**
REVISION: **2**

174472.001.01.0001_14493105_VT1035.dwg - Sheet:RF-1 - User: tim.grove - Apr 10, 2025 - 3:11pm



1 PLUMBING DIAGRAM (ALL SECTORS)
SCALE: N.T.S.



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REVISION: **2**