



768 Southleaf Dr.
Virginia Beach, VA 23462
aconwell@clinellc.com
215.588.7035

January 9, 2024

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modifications – AT&T Site CT5236
AT&T Telecommunications Facility @ 71 Moxley Hill Road Uncasville, CT 06382

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 192’ self-support tower at the above referenced address, latitude 41.4357919, longitude -72.1221989. Said self-support tower is owned and managed by SBA Towers II, LLC.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antennas, adding three (3) antennas, removing six (6) TMAs, removing six (6) diplexers, and adding one (1) remote radio unit as more particularly detailed and described on the enclosed Construction Drawings prepared by TEP Northeast, last revised on January 5, 2024. The centerline height of the existing antennas is and will remain at 130 feet.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2). In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals: Leonard Bunnell Sr. Mayor for the Town of Montville: Meredith Badalucca Assistant Town Planner for the Town of Montville: SBA Towers II, LLC as tower owner and Ernest & Walter Wainwright as property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated June 8, 2023 and prepared by GPD Engineering enclosed herewith.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A §16-50j-72(b)(2).

Best Regards,

Allison Conwell

Site Acquisition Consultant – Agent for AT&T

Centerline Communications LLC

750 West Center St. Ste 301

West Bridgewater, MA 02379

215-588-7035

aconwell@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
 Exhibit 2 – Property Card and GIS
 Exhibit 3 – Structural Analysis
 Exhibit 4 – Mount Analysis
 Exhibit 5 – RF Emissions Analysis Report Evaluation
 Exhibit 6 – Available Town of Montville Original Tower Approval Records
 Exhibit 7 – Notice Deliver Confirmations

Cc: Leonard Bunnell Sr., as elected official, Town of Montville
 Meredith Badalucca, Assistant Town Planner, Town of Montville
 George O’Neil, SBA Towers II, LLC, as tower owner
 Ernest & Walter Wainwright as property owner

EXHIBIT 1

PROJECT INFORMATION

SCOPE OF WORK:	<p><u>ITEMS TO BE MOUNTED ON THE EXISTING GUYED TOWER:</u></p> <ul style="list-style-type: none"> • NEW AT&T ANTENNAS: AIR6419 B77G (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T ANTENNAS: AIR6449 B77D (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T ANTENNAS: TPA65R-BU8DA (TOTAL OF 1 PER ALPHA SECTOR). • NEW AT&T ANTENNAS: OPA65R-BU8DA (TOTAL OF 1 PER BETA SECTOR). • NEW AT&T ANTENNAS: TPA65R-BU4DA (TOTAL OF 1 PER GAMMA SECTOR). • EXISTING AT&T ANTENNAS: DMP65R-BU8DA (TOTAL OF 1 PER ALPHA SECTOR) (TO BE RELOCATED TO POS. 4). • EXISTING AT&T ANTENNAS: TPA65R-BU6DA-K (TOTAL OF 1 PER BETA SECTOR) (TO BE RELOCATED TO POS. 2). • EXISTING AT&T ANTENNAS: OPA65R-BU4DA (TOTAL OF 1 PER GAMMA SECTOR) (TO BE RELOCATED TO POS. 4). • EXISTING AT&T RRUS: 4449 B5/B12 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RELOCATED TO V-FRAME). • EXISTING AT&T RRUS: 8843 B2/B66A (PCS/AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RELOCATED TO V-FRAME). • NEW AT&T (6) Y-CABLES (2/SECTOR) • NEW AT&T (1) 18 PAIRS OF FIBER RUN. <p><u>ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION:</u></p> <ul style="list-style-type: none"> • ADD 1x6651+XCEDE CABLE FINAL = 2x6630+1xXMU+IDLE/1x6651+XCEDE CABLE • INSTALL (1) FIBER MANAGEMENT BOX • INSTALL (1) NETSURE 5100 OD DC POWER PLANT W/ (10) -48V RECTIFIERS • INSTALL (1) NETSURE FLEX BATTERY CABINET • NEW AT&T RRUS 4478 B14 (700) (TOTAL OF 1) MOUNTED ON PROPOSED UNISTRUT W/ (4) TSXDC-4310FM INTEGRATED SURGE ARRESTORS <p><u>ITEMS TO BE REMOVED:</u></p> <ul style="list-style-type: none"> • EXISTING AT&T ANTENNA: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T ANTENNA: HPA-65R-BUU-H8 (TOTAL OF 1 PER ALPHA SECTOR). • EXISTING AT&T ANTENNA: HPA-65R-BUU-H6 (TOTAL OF 1 PER BETA SECTOR). • EXISTING AT&T ANTENNA: SBNHH-1D65A (TOTAL OF 1 PER GAMMA SECTOR). • EXISTING AT&T TMAS: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6) • EXISTING AT&T (1) 12 PAIR FIBER • EXISTING AT&T UMTS CABINET. • EXISTING AT&T RXAIT CABINET. • EXISTING AT&T DC POWER PLANT. <p><u>ITEMS TO REMAIN:</u></p> <ul style="list-style-type: none"> • (3) ANTENNAS, (8) RRU'S, (1) SURGE ARRESTOR, (12) COAX CABLES, (4) DC POWER & (1) FIBER.
SITE ADDRESS:	71 MOXLEY HILL ROAD UNCASVILLE, CT 06382
LATITUDE:	41.4357919° N, 41° 26' 8.85" N
LONGITUDE:	72.1221989° W, 72° 7' 19.92" W
TYPE OF SITE:	GUYED TOWER / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	192'-0"±
RAD CENTER:	130'-0"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	C
GN-1	GENERAL NOTES	C
A-1	COMPOUND & EQUIPMENT PLANS	C
A-2	ANTENNA LAYOUT PLANS & ELEVATION	C
A-3	DETAILS	C
A-4	DETAILS	C
G-1	GROUNDING DETAILS	C
RF-1	RF PLUMBING DIAGRAM	C

45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379SITE NUMBER: CTL05236
SITE NAME: MONTVILLE SE MOXLEY HILL RD71 MOXLEY HILL ROAD
UNCASVILLE, CT 06382
NEW LONDON COUNTY500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

- TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.



SITE NUMBER: CTL05236

SITE NAME: MONTVILLE SE MOXLEY HILL RD

FA CODE: 10092216

PACE ID: MRCTB061779, MRCTB054063, MRCTB054054, MRCTB056645, MRCTB056636

PROJECT: 5G NR RADIO, 5G NR 1SR CBAND, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO, 4TXRX ANTENNA RETROFIT, 2023 UPGRADE

VICINITY MAP	GENERAL NOTES																																																
<p>DIRECTIONS TO SITE:</p> <p>START OUT GOING EAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO WEST ST. MERGE ONTO I-91 N VIA THE RAMP ON THE LEFT TOWARD HARTFORD. MERGE ONTO CT-3 N VIA EXIT 25 TOWARD GLASTONBURY. MERGE ONTO CT-2 E TOWARD NORWICH. MERGE ONTO I-395 S VIA EXIT 28S TOWARD NEW HAVEN. TAKE THE CT-163 EXIT, EXIT 6, TOWARD UNCASVILLE/MONTVILLE. TURN LEFT ONTO ROUTE 163/CT-163. TURN RIGHT ONTO NORWICH NEW LONDON TURNPIKE/CT-32. TURN RIGHT ONTO MAPLE AVE. TURN LEFT ONTO JEROME RD. TURN SLIGHT RIGHT ONTO MOXLEY RD. 71 MOXLEY RD, UNCASVILLE, CT 06382-2301, 71 MOXLEY RD IS ON THE RIGHT.</p> 	<ol style="list-style-type: none"> 1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. 2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS. 3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. 4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN. 																																																
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<p> </p> <p>CALL BEFORE YOU DIG CALL TOLL FREE 1-800-922-4455 OR CALL 811</p>																																																	
UNDERGROUND SERVICE ALERT																																																	
 <p>STATE OF CONNECTICUT DANIEL P. HANNAH, GOVERNOR PROFESSIONAL ENGINEER LICENSING BOARD</p>																																																	
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GROUNDING NOTES

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 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 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 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 AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

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

CONTRACTOR – CENTERLINE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – AT&T MOBILITY
- 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.
- 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.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."

17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

20. **APPLICABLE BUILDING CODES:**
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: IBC 2021 WITH 2022 CT STATE BUILDING CODE AMENDMENTS
ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NFPA 70-2020)

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

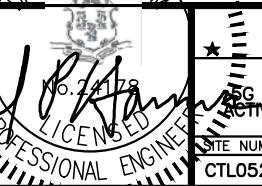
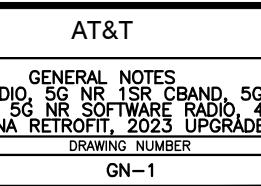
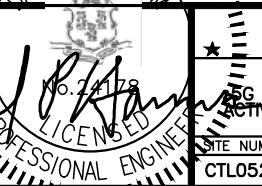
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H,
STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

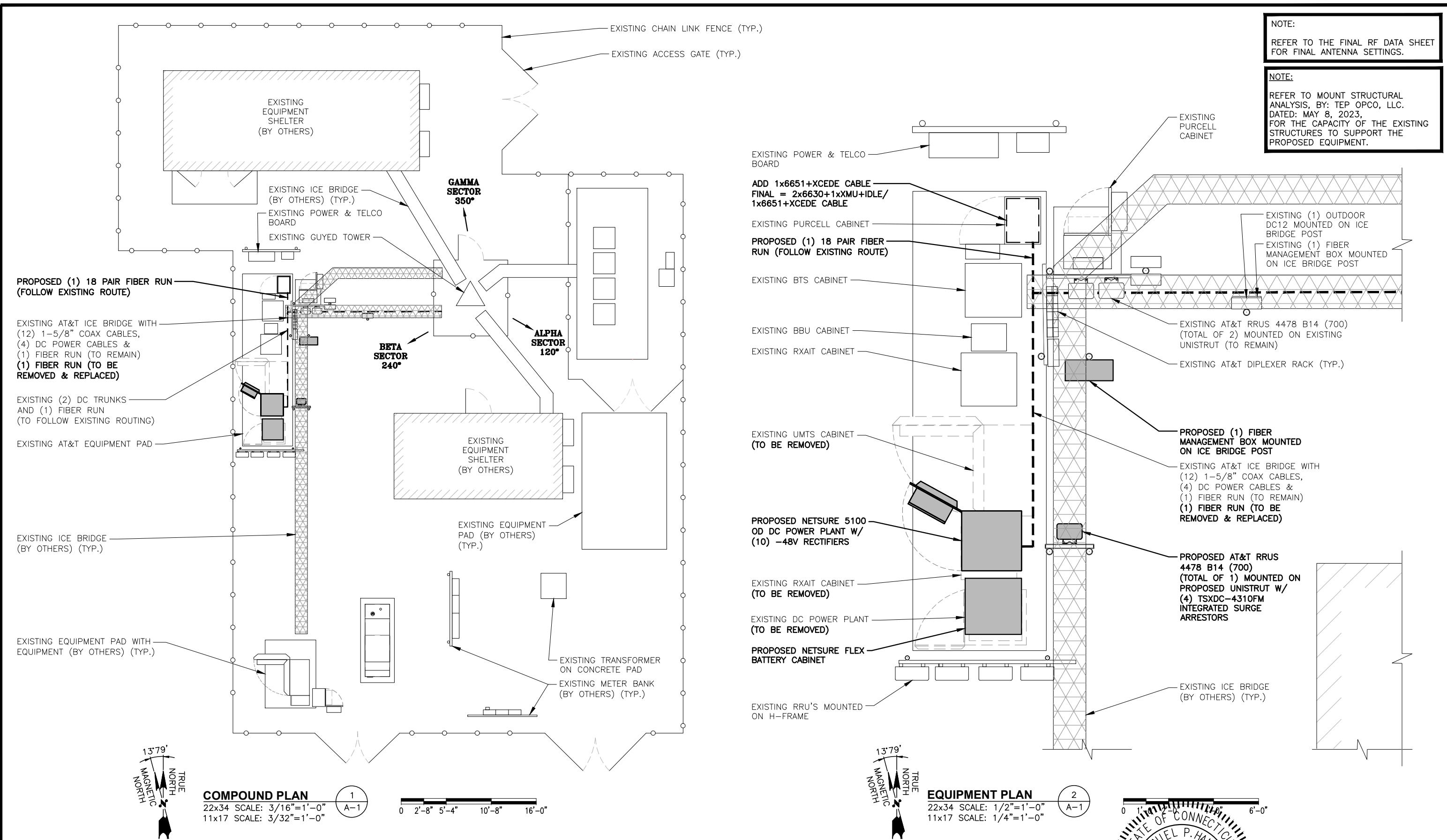
				AT&T	
				GENERAL NOTES	
5G NR RADIO 5G NR 1SR CBAND, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO, 4TXRX ANTENNA RETROFIT, 2023 UPGRADE				LICENSED PROFESSIONAL ENGINEER	
SITE NUMBER	DRAWING NUMBER	REV	NO. 24178	NO. 24178	NO. 24178
CTL05236	GN-1	C	135	135	135



SITE NUMBER: CTL05236
SITE NAME: MONTVILLE SE MOXLEY HILL RD
71 MOXLEY HILL ROAD
UNCASVILLE, CT 06382
NEW LONDON COUNTY


500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO. DATE REVISIONS BY CHK APP'D
SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: SS

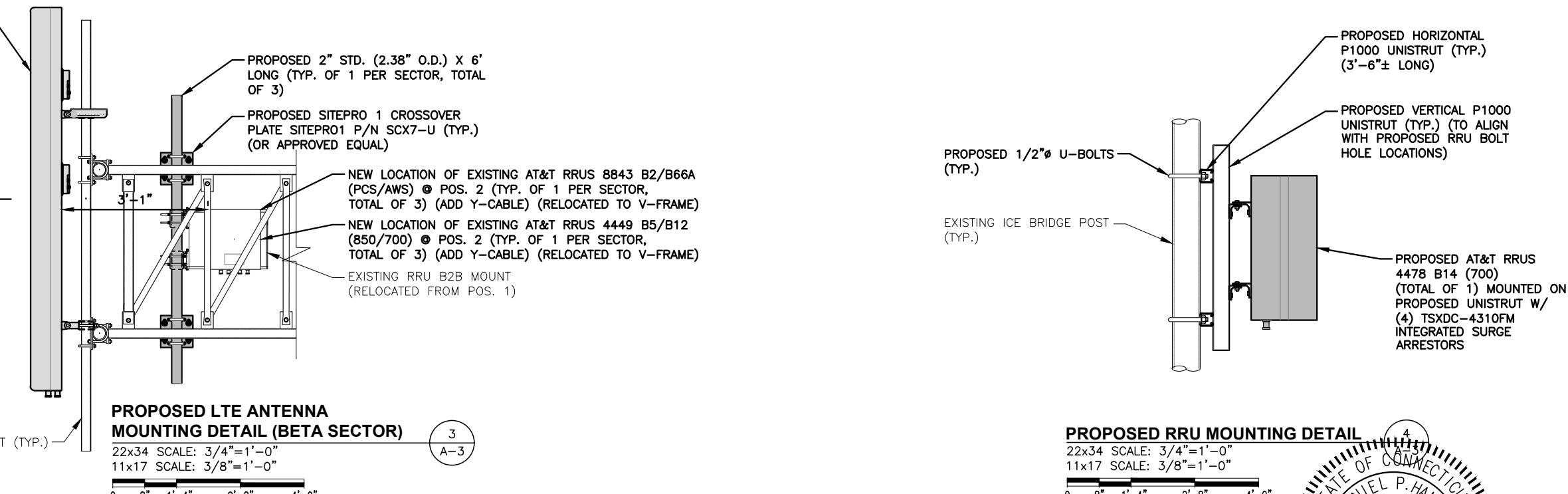


ANTENNA SCHEDULE												RRU CHART		
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA Q. HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP	QUANTITY	MODEL	SIZE (L x W x D)
A1	-	-	-	-	-	-	-	-	-	(2) 1-5/8 COAX		P(G)(1)	4478 B14 (700)	18.1"x13.4"x8.3"
A2	PROPOSED	LTE 700(BC) /AWS/850	TPA65R-BU8DA-K	96X20.7X7.7	130'-0"±	120°	-	(E)(1)RRUS 4449 B5/B12 (850/700) (E)(1)RRUS 8843 B2/B66A (PCS/AWS)	-	(E)(2) DC POWER (P)(1) 18 PAIR FIBER (APPROX. LENGTH 200'±) (P)(2)(Y-CABLE)	(E) (1) RAYCAP DC6-48-60-18-8F	E(G)(2)	4478 B14 (700)	18.1"x13.4"x8.3"
A3	PROPOSED	3.45GHz C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	130'-0"±	120°	-	-	-	-		E(3)	4449 B5/B12 (850/700)	17.9"x13.2"x10.4"
A4	EXSITING	LTE 700(B14) /PCS	DMP65R-BU8DA	96X20.7X7.7	130'-0"±	120°	-	(E)(G)(1)RRUS-4478 B14 (700)	-	-		E(3)	8843 B2/B66A (PCS/AWS)	14.9"x13.2"x10.9"
B1	-	-	-	-	-	-	-	-	-	(2) 1-5/8 COAX				
B2	EXSITING	LTE 700(BC) /AWS/850	TPA65R-BU6DA-K	71.2X20X7.7	130'-0"±	240°	-	(E)(1)RRUS 4449 B5/B12 (850/700) (E)(1)RRUS 8843 B2/B66A (PCS/AWS)	-	(E)(2) DC POWER (1) FIBER (P)(2)(Y-CABLE)	(E) (1) RAYCAP DC6-48-60-18-8F			
B3	PROPOSED	3.45GHz C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	130'-0"±	240°	-	-	-	-				
B4	PROPOSED	LTE 700(B14) /PCS	OPA65R-BU8DA	96X21X7.8	130'-0"±	240°	-	(E)(G)(1)RRUS-4478 B14 (700)	-	-				
C1	-	-	-	-	-	-	-	-	-	(2) 1-5/8 COAX				
C2	PROPOSED	LTE 700(BC) /AWS/850	TPA65R-BU4D	48X20.7X7.7	130'-0"±	350°	-	(E)(1)RRUS 4449 B5/B12 (850/700) (E)(1)RRUS 8843 B2/B66A (PCS/AWS)	-	(P)(2)(Y-CABLE)				
C3	PROPOSED	3.45GHz C-BAND	AIR6419 B77G AIR6449 B77D	31.1X16.1X7.3 30.4X15.9X8.1	130'-0"±	350°	-	-	-	-				
C4	EXSITING	LTE 700(B14) /PCS	OPA65R-BU4DA	48.2X21X7.8	130'-0"±	350°	-	(P)(G)(1) RRUS-4478 B14 (700)	18.1"x13.4"x8.3"	-				

FINAL ANTENNA SCHEDULE

SCALE: N.T.S

1
A-3

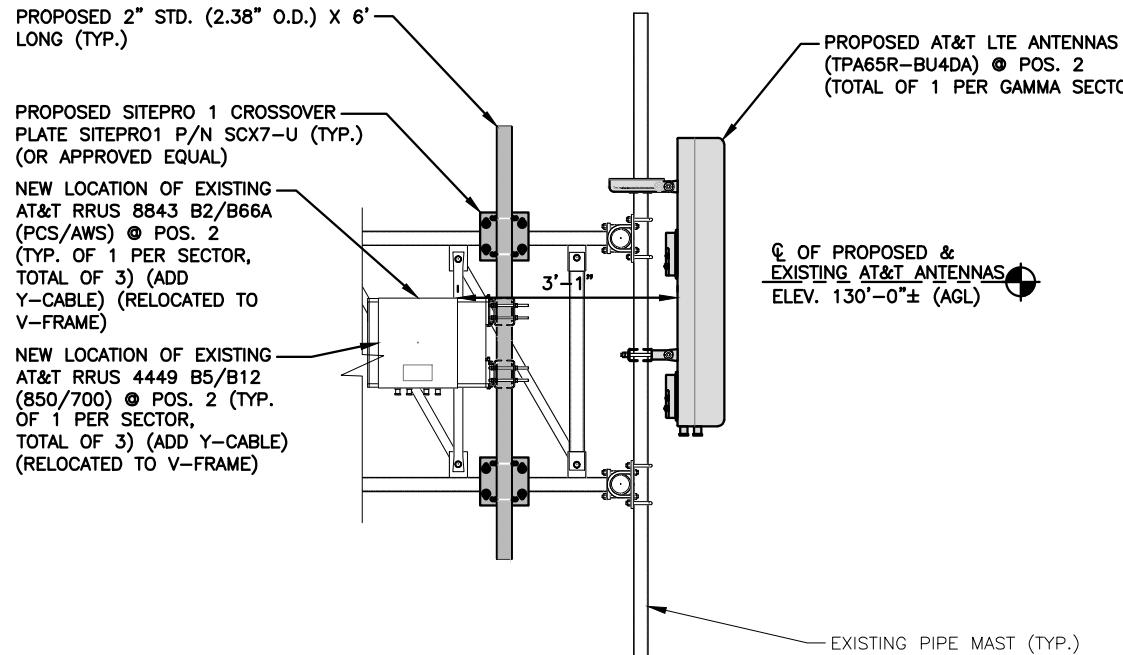


NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
REFER TO MOUNT STRUCTURAL ANALYSIS, BY: TEP OPCO, LLC. DATED: MAY 8, 2023, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:
REFER TO THE FINAL RF DATA SHEET
FOR FINAL ANTENNA SETTINGS.

NOTE:
REFER TO MOUNT STRUCTURAL
ANALYSIS, BY: TEP OPCO, LLC.
DATED: MAY 8, 2023,
FOR THE CAPACITY OF THE EXISTING
STRUCTURES TO SUPPORT THE
PROPOSED EQUIPMENT.



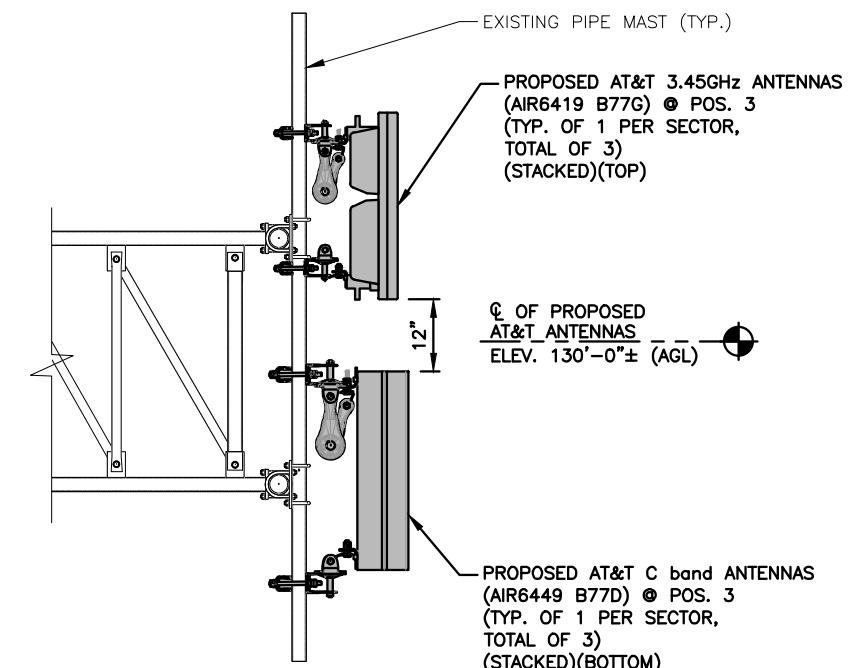
PROPOSED LTE ANTENNA MOUNTING DETAIL (GAMMA SECTOR)

22x34 SCALE: 3/4"=1'-0"

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

0 8" 1'-4" 2'-8" 4'-0"

1
A-4



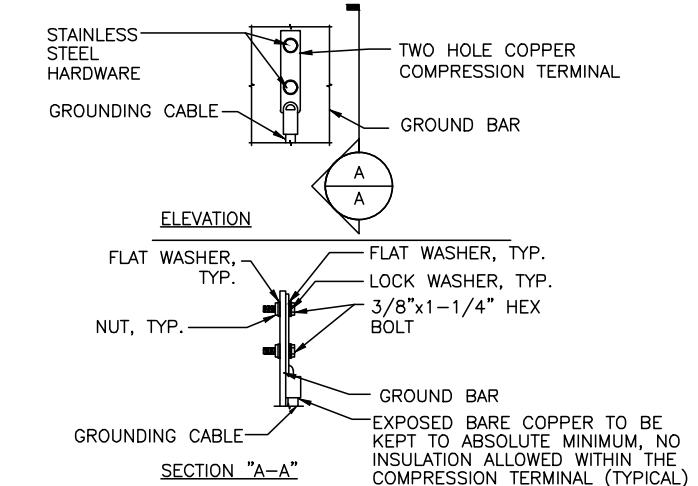
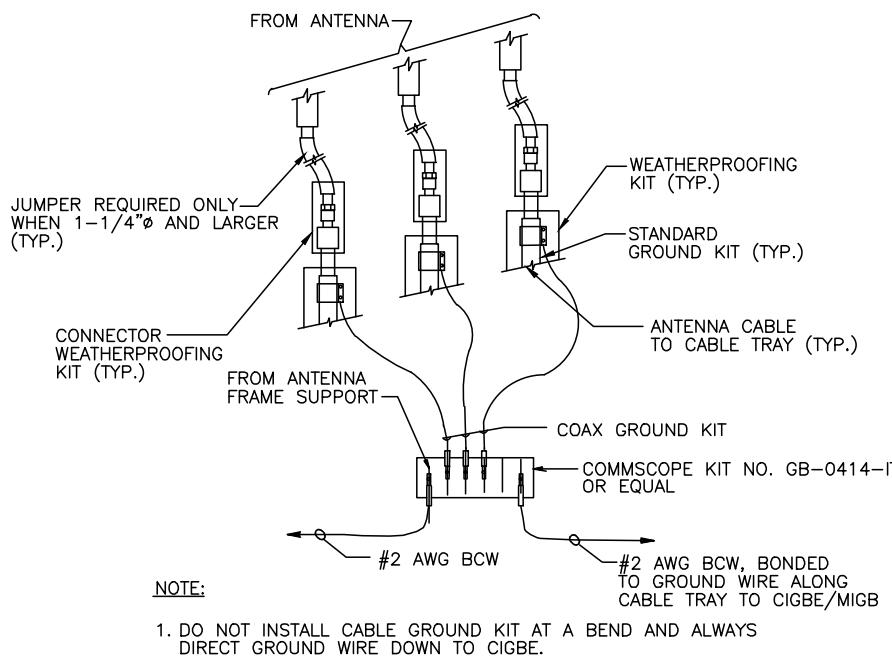
PROPOSED 3.45GHz+C band ANTENNA MOUNTING DETAIL (TYP. OF ALL SECTORS POS. 3)

22x34 SCALE: 3/4"=1'-0"

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

0 8" 1'-4" 2'-8" 4'-0"

2
A-4

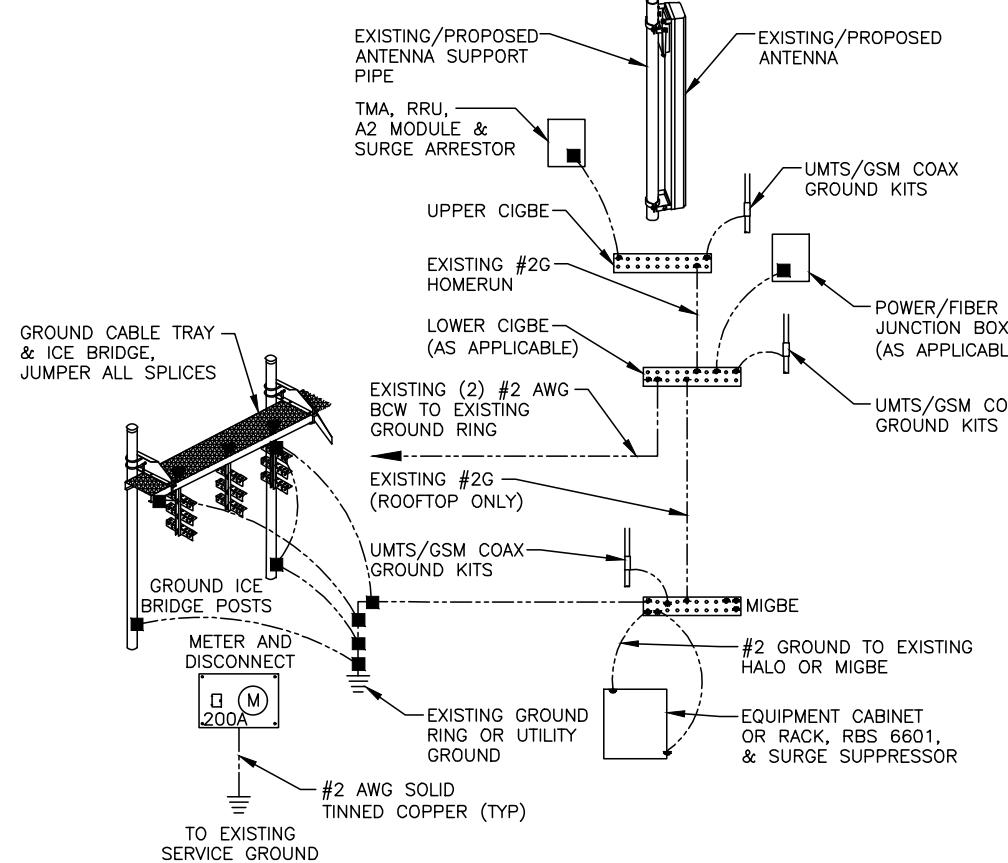


NOTES:
 1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
 3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

AT&T GROUNDING STANDARDS
TO BE FOLLOWED:
 ATT-TP-76416
 ATT-TP-76300
 ATT-CEM-18002
 ATT-002-290-531
 ATT-002-290-701
 ATT-CEM-23001



GROUNDING RISER DIAGRAM

SCALE: N.T.S

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

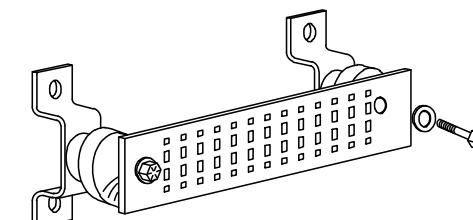
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
 GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
 TELCO GROUND BAR
 COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
 +24V POWER SUPPLY RETURN BAR (#2 AWG)
 -48V POWER SUPPLY RETURN BAR (#2 AWG)
 RECTIFIER FRAMES.

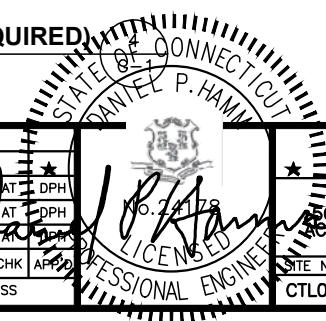
SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2 AWG)
 EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
 METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
 BUILDING STEEL (IF AVAILABLE) (#2 AWG)



GROUND BAR - DETAIL (AS REQUIRED)

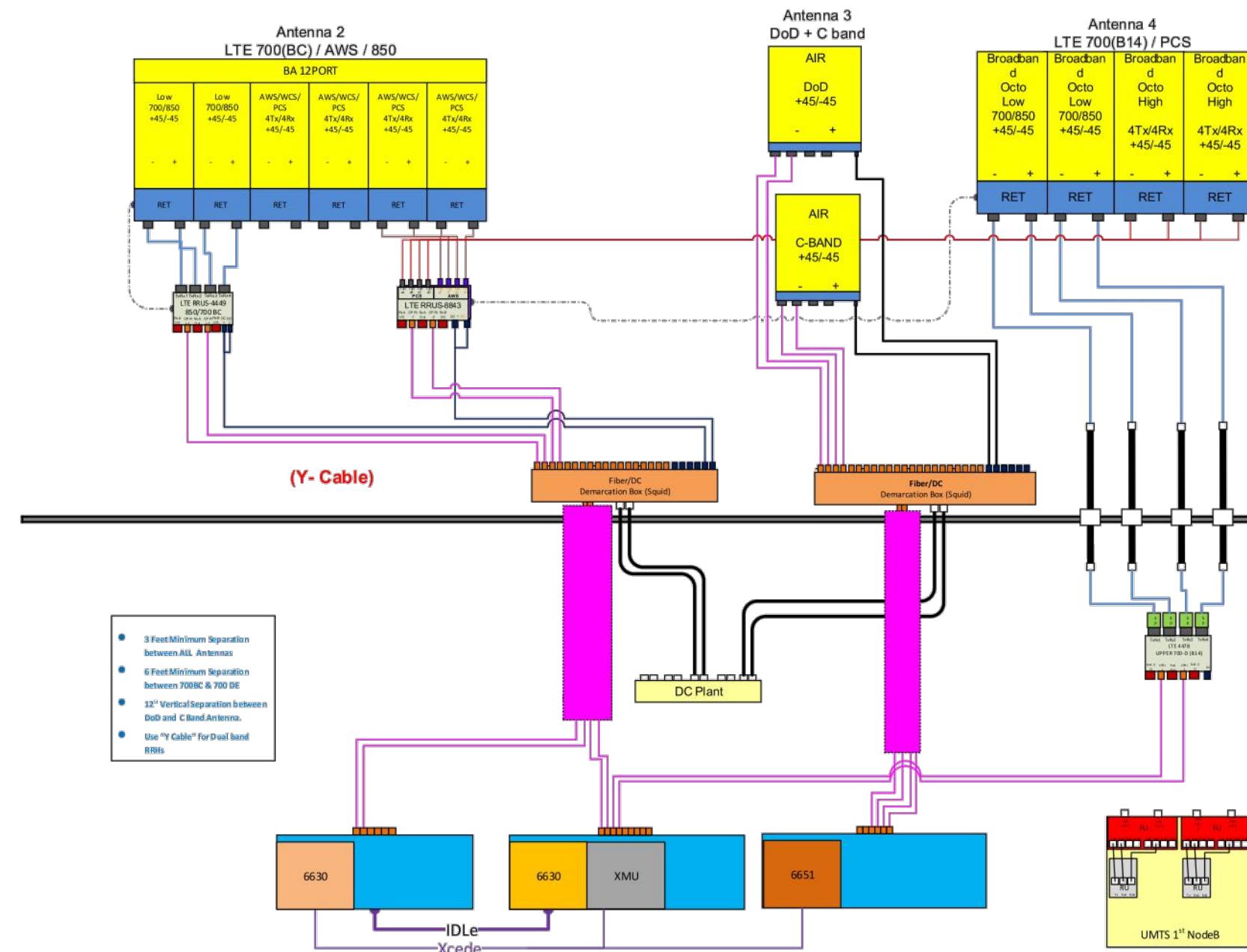
SCALE: N.T.S



AT&T

GROUNDING DETAILS
 5G NR RADIO, 5G NR, 1SR, CBAND, 5G NR
 ACTIVATION, 5G NR SOFTWARE RADIO, 4TXRX
 ANTENNA RETROFIT, 2023 UPGRADE

SITE NUMBER CTL05236 DRAWING NUMBER G-1 REV C



RF PLUMBING DIAGRAM

SCALE: N.T.S

1

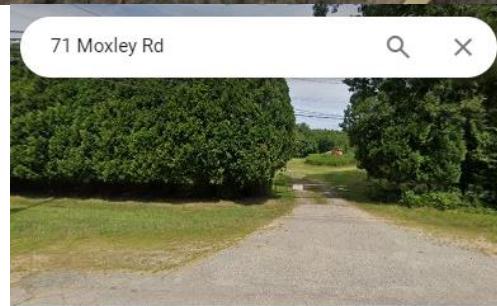
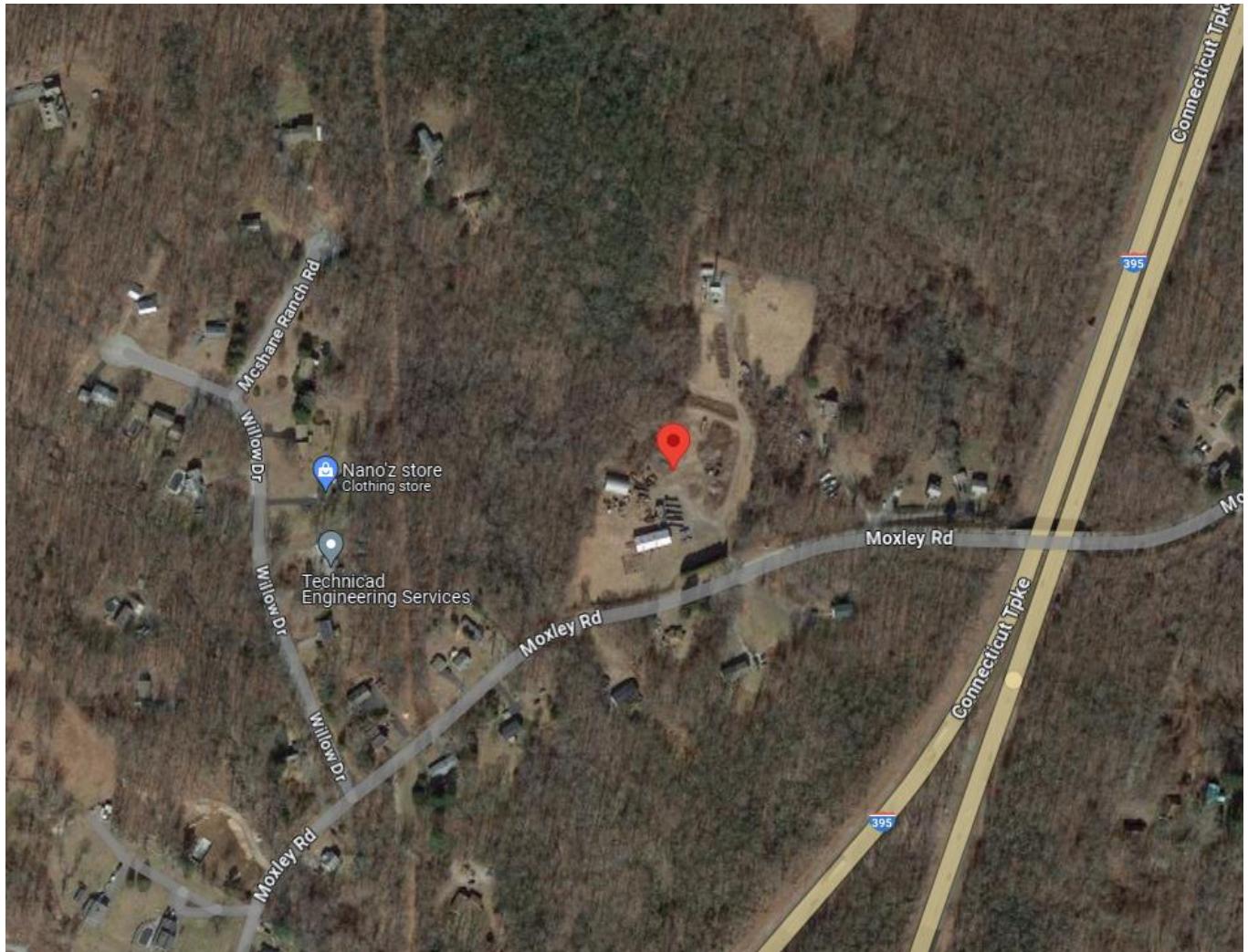
RF-1

NOTE:

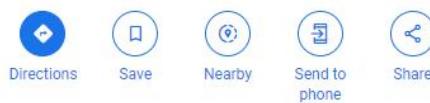
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

EXHIBIT 2



71 Moxley Rd



 71 Moxley Rd, Uncasville, CT 06382



Property Card: 71 MOXLEY RD Unit A

Town of Montville, CT

Parcel Information

Location:	71 MOXLEY RD Unit A	Property Use:	Commercial	Primary Use:	Cell Tower
Unique ID:	17012CEL	Map Block Lot:	017-012-CEL	Acres:	0
		Zone:	LI	Volume / Page:	0001/0001
		Sale Date:	10/01/2011	Sale Price:	\$0

Value Information

	Appraised Value	Assessed Value
Land	0	0
Buildings	0	0
Detached Outbuildings	1394500	976150
Total	1394500	976150

Owner's Information

Owner's Data
SBA TOWERS II LLC 8051 CONGRESS AVE BOCA RATON, FL 334871307



Property Card: 71 MOXLEY RD

Town of Montville, CT

Parcel Information

Location:	71 MOXLEY RD	Property Use:	Use Assessment	Primary Use:	Residential
Unique ID:	W0061700	Map Block Lot:	017-012-000	Acres:	14.34
		Zone:	R40	Volume / Page:	0151/1005
		Sale Date:	03/23/1983	Sale Price:	\$0

Value Information

	Appraised Value	Assessed Value
Land	34400	11130
Buildings	0	0
Detached Outbuildings	290900	203630
Total	325300	214760

Owner's Information

Owner's Data
WAINWRIGHT ERNEST C & WALTER N JR 149 GREAT NECK RD WATERFORD, CT 06385

EXHIBIT 3

STRUCTURAL ANALYSIS REPORT

190' Modified Guyed Tower

71 Moxley Road
Ucansville, CT 6382
41.4352 N, 72.1233 W

SBA Site Name: Montville 3 CT
SBA Site ID: CT10016-A

AT&T Site Name: MONTVILLE SE MOXLEY
HILL RD
AT&T Site ID: CT5236
Application ID: 215058, v2

GPD Project Number: 2023778.10016.01

Analysis Results

Tower Components	62.9%	Sufficient
Foundation	79.3%	Sufficient
Net Change in Tower Stress Ratio	- 27.1%	As compared to the Previous Structural Analysis detailed on Page 3

AT&T Mount Replacement/Reinforcement

Net Change in Tower Stress Ratio due to Mount Replacement/Reinforcement	N/A	See Page 5 for Additional Details
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AT&T Antenna Rotation Results (126 MPH 3-Second Gust Wind)

Antenna	Centerline (Ft.)	Sway (Deg.)	Twist (Deg.)
130	130	0.215	0.162

June 8, 2023

Respectfully submitted by:



Christopher J. Scheks, P.E.
LIC# 30026

6/8/2023
Christopher J. Scheks, P.E.
Connecticut P.E. #: 30026

Analysis Criteria

The purpose of this analysis is to verify whether the existing Guyed tower is structurally capable of carrying the proposed antenna loads as specified by AT&T to SBA. This report was commissioned by Doinitsa Psederschi of SBA.

The existing structure and its foundations have been analyzed per the following requirements:

Governing Code(s)	TIA-222-H & 2021 IBC & 2022 Connecticut State Building Code
Wind Speed	126 MPH 3-Second Gust
Wind Speed w/ Ice	50 MPH 3-Second Gust
Radial Ice Thickness	1.00"
Risk Category	II
Exposure Category	B
Topographic Category	1

Analysis Method

tnxTower (Version 8.1.1.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind and ice load cases. Selected output from the analysis is included in the appendices of this report.

Tower Description

The existing 190' self-support tower is located in Uncasville, CT. The tower was originally designed for SBA Network Services, Inc. by ROHN in April 1998. The tower was originally designed in accordance with TIA-222-F for a 90-mph 3-second gust wind speed with 1/2" of radial ice (w/ a 25% wind load reduction) in accordance with EIA/TIA-222-F.

Documents Provided

Document Type	Remarks	Source
Geotechnical Report	FDH Project #: 1102193EG1, dated: 8/10/2011	SBA
Original Tower & Foundation Drawings	ROHN Eng. File #: 37183AE001, dated: 4/21/1998	SBA
Previous Structural Analysis	TES Project #: 117023, dated: 10/7/2021	SBA
Carrier Mount Analysis	TEP Project #: 323466.754398 Rev.2, dated: 5/8/2023	SBA
Modification Drawings	FDH: Project #: 15BJIT1400 dated, 4/22/2015	SBA
Modification Drawings	FDH: Project #: 1465RU1400 dated, 5/29/2014	SBA

Tower Modification Summary

Modification Type	Description	Designer
Diagonals	Replace existing pipe diagonals from 87.6' to 90' with L2x2x1/4 members.	FDH (5/29/2014)
Legs	Bolt on split P3 STD members to existing legs from 130' to 150'	FDH (5/29/2014)
Legs	Bolt on split P3 STD members to existing legs from 110' to 130'	FDH (4/25/2015)

Tower Materials

GUYED

Structural Components	Material Strength
Legs	ASTM A572 (50 KSI Yield Strength)
Bracing Members	ASTM A500-42 (42 KSI Yield Strength)
Member Bolts	A325X
Guy Wires	EHS

Tower Loading

The following data shows the major loading that the tower supports. All existing, leased, and proposed loading information was provided by SBA or taken from the previous structural analysis.

Existing/Leased Loading

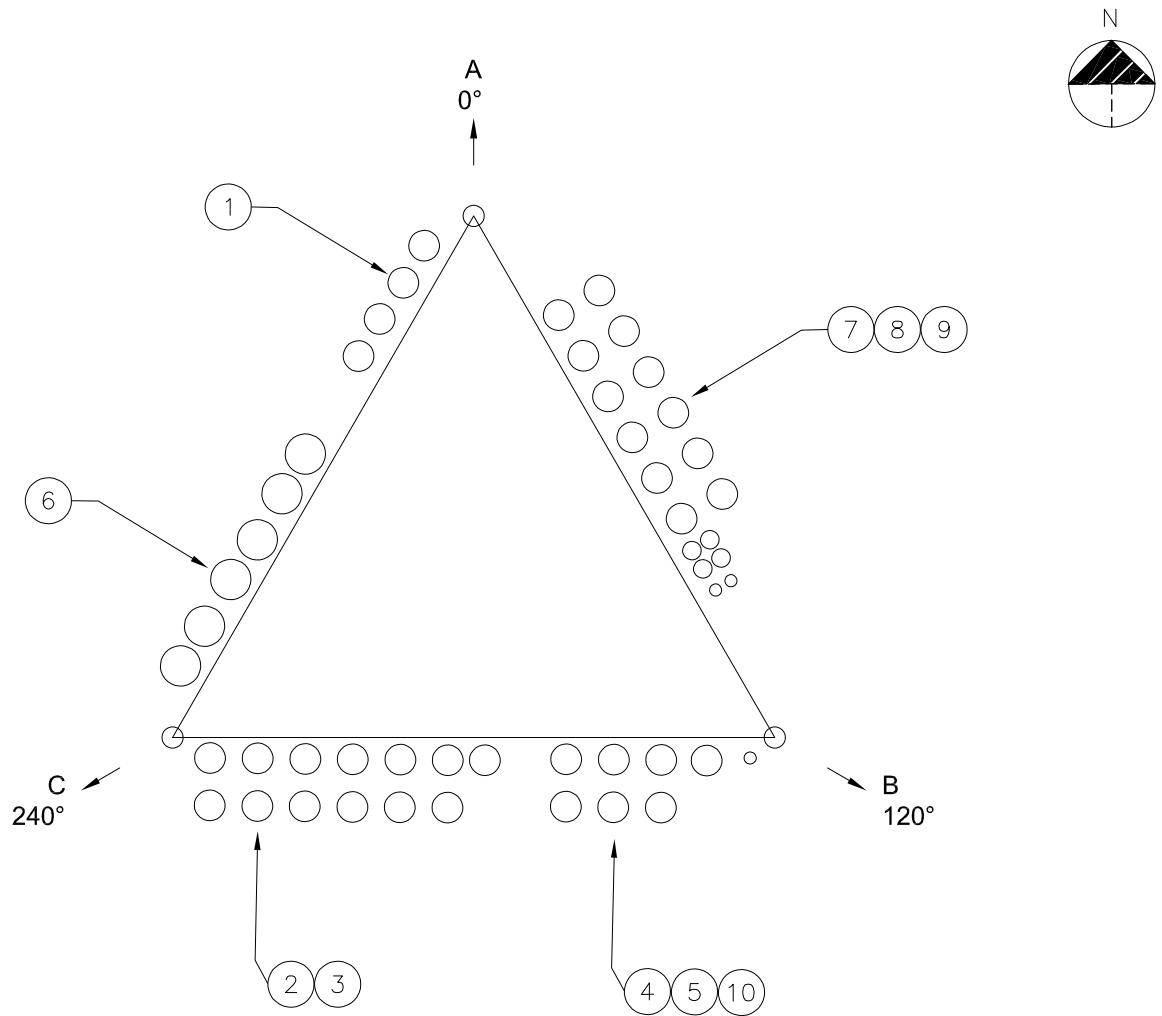
Carrier	Mounting Level (ft)	Center Line Elevation (ft)	# of Antennas	Antenna Manufact.	Antenna/Mount Model	# of Coax	Coax Size (in)	Note
Sprint Nextel	160	160	3	RFS	APXVSPP18-C-A20	4	1 1/4 Hybrid	
			3	RFS	APXVTM14-C-I20			
			4	RFS	ACU-A20-N RET			
			3	Alcatel Lucent	1900 MHz RRH			
			3	Alcatel Lucent	800 MHz RRH			
			3	Alcatel Lucent	TD-RRH8x20-25			
			3	Alcatel Lucent	800 MHz Filter			
			3	Unknown	Sector Frames			
T-Mobile	150	150	3	Andrew	RR65-18-VDPL2	10 3	1 5/8 1 5/8 Hybrid	
			3	RFS	APXVAARR24_43-U-NA20			
			3	Ericsson	Air32 KRD901146-1_B66A_B2A			
			6	Ericsson	KRY 112 144/1			
			3	Ericsson	4449 B71+B12			
			3	Unknown	Sector Frames			
Verizon	141	141	3	Antel	BXA-70063-6CF-EDIN-0	11 2	1 5/8 1 5/8 Hybrid	
			3	Samsung	MT6407-77A			
			6	JMA Wireless	MX06FRO660-03			
			3	Samsung	B5/B13 RRH BR04C			
			3	Samsung	B2/B66A-RRH-B409			
			1	Raycap	DB-C1-12C-24AB-0Z			
					Sector Frames			
			3		VZWSMART			
					VZWSMART-SFKI			
			9		VZWSMART-MSK1			
AT&T	130	130	3	JMA	919003314-02	12 2 4	1 1/4 1/2 3/4	
			1	CCI	HPA-65R-BUU-H6			
			1	CCI	DMPR65R-BU8DA			
			1	CCI	DMPR65R-BU4DA			
			1	CCI	DMPR65R-BU6DA			
			1	Andrew	SBNHH-1D65A			
			3	CCI	7770			
			6	Powerwave	LGP21401			
			3	Ericsson	4449 B5/B12			
			3	Ericsson	8843 B2/B66A			
			2	Raycap	DC6-48-60-18-8F			
			6	Kathrein	800-10025			
			3		12' Sector Mounts			
Verizon	76	76	1		GPS	1	1/2	
			1		Standoff			

Final Proposed Loading Configuration
Final Proposed Loading Configuration

Carrier	Mounting Level (ft)	Center Line Elevation (ft)	# of Antennas	Antenna Manufact.	Antenna/Mount Model	# of Coax	Coax Size (in)	Note
AT&T	130	132	3	Ericsson	Air 6419 B77G	12	1 1/4 1/2 3/4	1
			1	CCI	TPA65R-BU8DA-K			
			1	CCI	DMP65R-BU8DA			
			1	CCI	TPA65R-BU6DA-K			
			1	CCI	OPA65R-BU8DA			
			1	CCI	TPA65R-BU4D			
			1	CCI	OPA65R-BU4DA			
			3	Ericsson	4449 B5/B12			
			3	Ericsson	8843 B2/B66A			
			1	Raycap	DC6-48-60-18-8F			
			1	Raycap	DC9-48-60-24-8C-EV			
			3		Sector Mounts			
		128	3	Ericsson	Air 6449 B77D			

Notes: This loading represents AT&T's final configuration on the tower. See the next page for the proposed feedline layout.

Proposed Feedline Configuration



#	CARRIER	SIZE	QTY.	ELEVATION	NOTES
1	Sprint	1-1/4"	4	160'	
2	T-Mobile	1-5/8"	10	150'	
3	T-Mobile	1-5/8"	3	150'	Hybrid
4	Verizon	1-5/8"	5	141'	
5	Verizon	1-5/8"	2	141'	Hybrid
6	Verizon	1-5/8"	6	141'	
7	AT&T	1-1/4"	12	130'	
8	AT&T	1/2"	2	130'	
9	AT&T	3/4"	4	130'	
10	Verizon	1/2"	1	76'	

Tower Section Results

Capacity Summary of Structural Components

Notes	Component	% Capacity	Pass / Fail
	Legs	64.1	Pass
	Diagonals	52.8	Pass
	Horizontals	1.5	Pass
	Member Bolts	52.8	Pass
	Guy Wires	54.9	Pass
	Torque Arms	36.3	Pass
	Tower Base Foundation	21.7	Pass
	Guy Anchor Foundation	77.6	Pass

Conclusions & Recommendations

The designs of the tower and its foundations are sufficient to support the proposed loading configuration and will not require modification.

Assumptions

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in the Existing/Reserved Loading and Proposed Loading Tables, and the specified documents.
- 4) All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
- 5) Mount sizes, weights, and manufacturers are best estimates based on photos provided and determined without the benefit of a site visit by GPD.
- 6) All member connections and foundation steel reinforcing are assumed designed to meet or exceed the load carrying capacity of the connected member and surrounding soils respectively unless otherwise specified in this report.
- 7) Tower leg azimuths have been estimated based upon the use of satellite imagery software.
- 8) The existing feedline layout has been modeled based upon the previous structural analysis and site photos.
- 9) The proposed feedlines shall be installed as illustrated in order for the results of this analysis to be valid.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

Disclaimer of Warranties

GPD has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation for this report.

EXHIBIT 4

May 8, 2023 (Rev.2)

October 17, 2022 (Rev.1)

March 4, 2022



Centerline Communications
750 West Center Street, Suite #301
West Bridgewater, MA 02379

RE: AT&T Site Number: CT5236 (C-Band)
 FA Number: 10092216
 PACE Number: MRCTB056636
 PT Number: 2051A11N8Q
 TEP Project Number: 323466.754398
 AT&T Site Name: MONTVILLE SE MOXLEY HILL RD
 Site Address: 71 Moxley Hill Road
 Uncasville, CT 06382

To Whom It May Concern:

TEP Northeast (TEP NE) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna/RRH mounts to determine their capability of supporting the following additional loading:

- (1) DMP65R-BU8DA Antenna (96.0"x20.7"x7.7" – Wt. = 119 lbs.)
- (1) TPA65R-BU6DA-K Antenna (71.2"x20.7"x7.7" – Wt. = 69 lbs.)
- (1) OPA65R-BU4DA Antenna (48.0"x20.7"x7.7" – Wt. = 46 lbs.)
- (3) 4449 B5/B12 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each)
- (3) 8843 B2/B66A RRH's (14.9"x13.2"x10.9" – Wt. = 72 lbs. /each)
- (2) DC6-48-60-18-8F Surge Arrestors (31.4"x10.3"Ø – Wt. = 29 lbs. /each)
- (1) **TPA65R-BU8DA-K Antenna (96.0"x20.7"x7.7" – Wt. = 87 lbs.)**
- (1) **OPA65R-BU8DA Antenna (96.0"x20.7"x7.7" – Wt. = 77 lbs.)**
- (1) **TPA65R-BU4D Antenna (48.0"x20.7"x7.7" – Wt. = 53 lbs.)**
- (3) **AIR6419 Antennas (31.1"x16.1"x7.3" – Wt. = 66 lbs. /each)**
- (3) **AIR6449 Antennas (30.6"x15.9"x10.6" – Wt. 82 lbs. /each)**

**Proposed equipment shown in bold*

No original structural design documents or fabrication drawings were available for the existing mounts. ProVertic LLC conducted a survey climb and mapping of the existing AT&T antenna mounts on February 22, 2022. TEP NE conducted a ground audit of the existing AT&T antenna mounts on October 20, 2021.

Mount Analysis Methods:

- This analysis was conducted in accordance with EIA/TIA-222-H, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, the International Building Code 2021 with 2022 Connecticut State Building Code, and AT&T Mount Technical Directive – R22.
- TEP NE considers this mount to be asymmetrical and has applied wind loads in 30 degree increments all around the mount. Per TIA-222-H and Appendix P of the Connecticut State Building Code, the max basic wind speed for this site is equal to 125 mph with a max basic wind speed with ice of 30 mph and a max ice thickness of 1.0 in. An escalated ice thickness of 1.15 in was used for this analysis.
- TEP NE considers this site to be exposure category C; tower is located near large, flat, open, terrain/grasslands.
- TEP NE considers this site to be topographic category 1; tower is located on flat terrain or the bottom of a hill or ridge.
- TEP NE considers this site to have a spectral response acceleration parameter at short periods, S_S , of 0.198 and a spectral response acceleration parameter at a period of 1 second, S_1 , of 0.054.
- The mount has been analyzed with load combinations consisting of 500 lbs live load using a service wind speed of 30 mph wind on the worst case antenna. Analysis performed on each antenna pipe to determine worst case location; worst case location was antenna position 4.
- The mount has been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.
- The existing mounts are secured to the existing guyed tower with bent plates, threaded rods, and U-bolts tightened around the tower leg. TEP NE considers the threaded rods as the governing connection members.

Based on our evaluation, we have determined that the existing mounts **ARE CAPABLE** of supporting the proposed installation.

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Existing Mount Rating	21	LC10	96%	PASS

Reference Documents:

- Mount mapping report prepared by ProVertic LLC.

This determination was based on the following limitations and assumptions:

1. TEP NE is not responsible for any modifications completed prior to and hereafter which TEP NE was not directly involved.
2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. The existing mount has been adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to the installation of new appurtenances.
6. TEP NE performed a localized analysis on the mount itself and not on the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted,
TEP Northeast



Michael Cabral
Director



Daniel P. Hamm, PE
Vice President

EXHIBIT 5



Radio Frequency Exposure Analysis Report

March 7, 2023

AT&T

Site Name: Montville SE Moxley Hill Rd

Site Number: CT5236

FA#: 10092216

USID: 25906

Site Address: 71 Moxley Hill Road, Uncasville, CT 06382



Michael Fischer, P.E.

Registered Professional Engineer (Electrical)

Connecticut License Number 33928

Expires January 31, 2024

Signed 07 March 2023

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	1.71591 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	0.21085%



March 7, 2023

Centerline
Attn: Ryan Burgdorfer, Project Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: Montville SE Moxley Hill Rd

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **71 Moxley Hill Road, Uncasville, CT 06382** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{\text{MHz}}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu\text{W}/\text{cm}^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.



Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table(s) below. The cumulative power density and cumulative % MPE are displayed at the bottom of the table(s) below.



Maximum Calculated Cumulative Power Density @ Ground Level (Location: approximately 360' NW of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
AT&T A 1	CCI TPA65R-BU8D	700	13.05	130.00	4.00	30.00	2422.04	0.00005	466.67	0.00001
AT&T A 1	CCI TPA65R-BU8D	2100	15.65	130.00	4.00	30.00	4407.39	0.00001	1000.00	0.00000
AT&T A 2	ERICSSON SON_AIR6419	3450	22.85	131.50	1.00	54.22	10451.04	0.00019	1000.00	0.00002
AT&T A 3	ERICSSON SON_AIR6449	3700	23.55	129.50	1.00	86.75	19645.79	0.00026	1000.00	0.00003
AT&T A 4	CCI DMP65R-BU4D	700	9.75	130.00	2.00	30.00	566.44	0.00003	466.67	0.00001
AT&T A 4	CCI DMP65R-BU4D	850	10.35	130.00	2.00	30.00	650.36	0.00000	566.67	0.00000
AT&T A 4	CCI DMP65R-BU4D	1900	13.45	130.00	4.00	30.00	2655.71	0.00004	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	700	11.75	130.00	4.00	30.00	1795.48	0.00009	466.67	0.00002
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	130.00	4.00	30.00	4722.60	0.00000	1000.00	0.00000
AT&T B 6	ERICSSON SON_AIR6419	3450	22.85	131.50	1.00	54.22	10451.04	0.00052	1000.00	0.00005
AT&T B 7	ERICSSON SON_AIR6449	3700	23.55	129.50	1.00	86.75	19645.79	0.00032	1000.00	0.00003
AT&T B 8	CCI OPA65R-BU8D	700	13.05	130.00	2.00	30.00	1211.02	0.00002	466.67	0.00000
AT&T B 8	CCI OPA65R-BU8D	850	13.85	130.00	2.00	30.00	1455.97	0.00000	566.67	0.00000
AT&T B 8	CCI OPA65R-BU8D	1900	15.05	130.00	4.00	30.00	3838.67	0.00000	1000.00	0.00000
AT&T C 9	CCI TPA65R-BU4D	700	10.25	130.00	4.00	30.00	1271.10	0.00759	466.67	0.00163
AT&T C 9	CCI TPA65R-BU4D	2100	14.45	130.00	4.00	30.00	3343.35	0.00412	1000.00	0.00041
AT&T C 10	ERICSSON SON_AIR6419	3450	22.85	131.50	1.00	54.22	10451.04	0.41717	1000.00	0.04172
AT&T C 11	ERICSSON SON_AIR6449	3700	23.55	129.50	1.00	86.75	19645.79	0.58618	1000.00	0.05862
AT&T C 12	CCI OPA65R-BU4	700	10.35	130.00	2.00	30.00	650.36	0.02333	466.67	0.00500
AT&T C 12	CCI OPA65R-BU4	850	11.15	130.00	2.00	30.00	781.90	0.01929	566.67	0.00340
AT&T C 12	CCI OPA65R-BU4D	1900	13.65	130.00	4.00	30.00	2780.87	0.03942	1000.00	0.00394
Unknown 13	GENERIC PANEL 6FT	850	12.62	140.00	4.00	160.00	2924.96	0.00002	566.67	0.00000
Unknown 14	GENERIC PANEL 6FT	1900	15.84	140.00	4.00	160.00	6139.32	0.00003	1000.00	0.00000
Unknown 15	GENERIC PANEL 6FT	2100	16.39	140.00	4.00	160.00	6968.19	0.00003	1000.00	0.00000
Unknown 16	GENERIC PANEL 6FT	700	12.33	140.00	4.00	160.00	2736.02	0.00023	466.67	0.00005
Unknown 17	GENERIC PANEL 6FT	850	12.62	140.00	4.00	160.00	2924.96	0.00041	566.67	0.00007
Unknown 18	GENERIC PANEL 6FT	1900	15.84	140.00	4.00	160.00	6139.32	0.00017	1000.00	0.00002
Unknown 19	GENERIC PANEL 6FT	2100	16.39	140.00	4.00	160.00	6968.19	0.00010	1000.00	0.00001
Unknown 20	GENERIC PANEL 6FT	700	12.33	140.00	4.00	160.00	2736.02	0.00046	466.67	0.00010
Unknown 21	GENERIC PANEL 6FT	850	12.62	140.00	4.00	160.00	2924.96	0.08708	566.67	0.01537
Unknown 22	GENERIC PANEL 6FT	1900	15.84	140.00	4.00	160.00	6139.32	0.08704	1000.00	0.00870
Unknown 23	GENERIC PANEL 6FT	2100	16.39	140.00	4.00	160.00	6968.19	0.09161	1000.00	0.00916
Unknown 24	GENERIC PANEL 6FT	700	12.33	140.00	4.00	160.00	2736.02	0.08451	466.67	0.01811
Unknown 25	GENERIC PANEL 6FT	1900	15.84	150.00	2.00	120.00	4604.49	0.00002	1000.00	0.00000
Unknown 25	GENERIC PANEL 6FT	600	12.33	150.00	2.00	120.00	2052.02	0.00015	400.00	0.00004



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
Unknown 25	GENERIC PANEL 6FT	700	12.33	150.00	2.00	120.00	2052.02	0.00015	466.67	0.00003
Unknown 25	GENERIC PANEL 6FT	2100	15.84	150.00	2.00	120.00	4604.49	0.00002	1000.00	0.00000
Unknown 26	GENERIC PANEL 6FT	1900	15.84	150.00	2.00	120.00	4604.49	0.00011	1000.00	0.00001
Unknown 26	GENERIC PANEL 6FT	600	12.33	150.00	2.00	120.00	2052.02	0.00030	400.00	0.00008
Unknown 26	GENERIC PANEL 6FT	700	12.33	150.00	2.00	120.00	2052.02	0.00030	466.67	0.00007
Unknown 26	GENERIC PANEL 6FT	2100	15.84	150.00	2.00	120.00	4604.49	0.00011	1000.00	0.00001
Unknown 27	GENERIC PANEL 6FT	1900	15.84	150.00	2.00	120.00	4604.49	0.05657	1000.00	0.00566
Unknown 27	GENERIC PANEL 6FT	600	12.33	150.00	2.00	120.00	2052.02	0.05492	400.00	0.01373
Unknown 27	GENERIC PANEL 6FT	700	12.33	150.00	2.00	120.00	2052.02	0.05492	466.67	0.01177
Unknown 27	GENERIC PANEL 6FT	2100	15.84	150.00	2.00	120.00	4604.49	0.05657	1000.00	0.00566
Unknown 28	GENERIC PANEL 6FT	850	12.62	160.00	1.00	100.00	1828.10	0.00001	566.67	0.00000
Unknown 29	GENERIC PANEL 6FT	850	12.62	160.00	1.00	100.00	1828.10	0.00019	566.67	0.00003
Unknown 30	GENERIC PANEL 6FT	850	12.62	160.00	1.00	100.00	1828.10	0.04125	566.67	0.00728
							Cumulative Power Density:	1.71591 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	0.21085%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Michelle Stone
RF EME Technical Writer II
Centerline Communications, LLC

EXHIBIT 6





STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square

New Britain, Connecticut 06051

August 9, 2002

Phone: (860) 827-2935

Fax: (860) 827-2950

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-086-020701** – AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 71 Moxley Hill Road, Montville, Connecticut.

Dear Attorney Fisher:

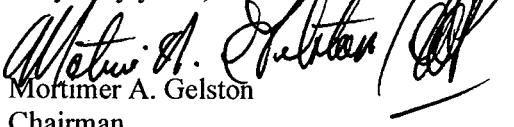
At a public meeting held on August 1, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that an inspection of the existing coax cables be conducted by a Professional Engineer prior to placement of antennas on the tower. Any necessary structural modifications resulting from the inspection shall be designed by a Professional Engineer.

The proposed modifications are to be implemented as specified here and in your notice received in our office on July 1, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

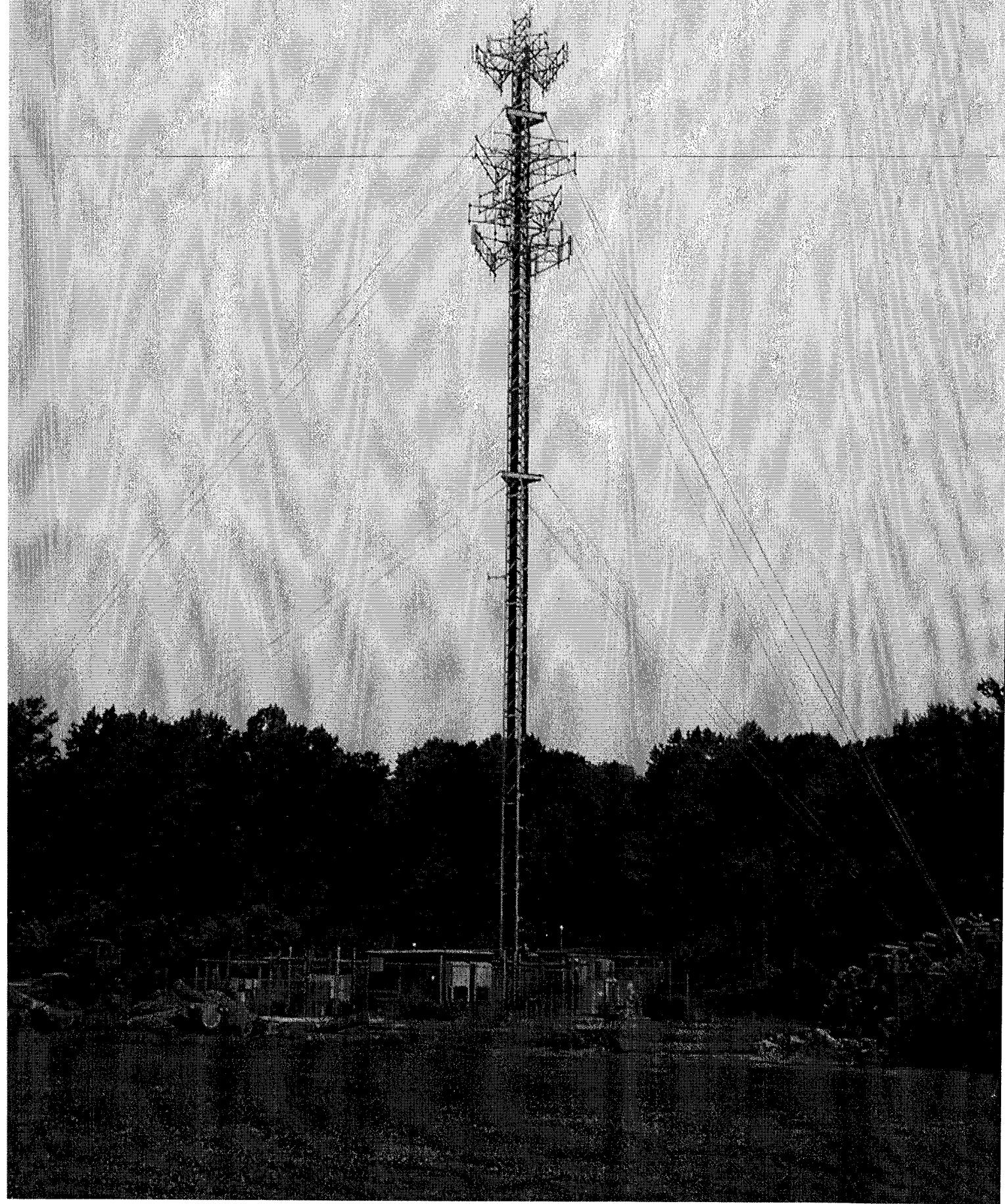
Very truly yours,


Mortimer A. Gelston

Chairman

c: Honorable Howard R. Beetham, Jr., Mayor, Town of Montville
Marcia Vaughn, Town Planner, Town of Montville
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Kenneth C. Baldwin, Robinson & Cole LLP
Thomas Flynn, Nextel Communications

AT&T 71 Moxley Hill Road, Montville 7-08-02



*RECEIVED
JUL 01 2002
COUNCIL*

**NOTICE OF INTENT TO MODIFY AN
EXISTING TELECOMMUNICATIONS FACILITY AT
71 MOXLEY HILL ROAD, MONTVILLE, CONNECTICUT**

Pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes § 16-50g et. seq. ("PUESA"), and Sections 16-50j-72(b) of the Regulations of Connecticut State Agencies adopted pursuant to the PUESA, AT&T Wireless PCS, LLC d/b/a AT&T Wireless ("AT&T Wireless") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 71 Moxley Hill Road, Montville, Connecticut (the "Moxley Hill Road Facility"), owned by Wireless Solutions. AT&T Wireless and Wireless Solutions have agreed to share the use of the Moxley Hill Road Facility, as detailed below.

The Moxley Hill Road Facility

The Moxley Hill Road Facility consists of an approximately one hundred ninety (190) foot guyed Lattice tower (the "Tower") and associated equipment currently being used for wireless communications by Sprint, Nextel, the VoiceStream and Verizon. A chain link fence surrounds the Tower compound. The current surrounding land uses are predominantly commercial and the site is buffered by natural vegetation.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Natcomm, LLC., including a site plan and tower elevation of the Moxley Hill Road Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment cabinets needed to provide personal communications services ("PCS") within the existing fenced compound. AT&T Wireless will install 6 panel antennas at approximately the 130 foot level of the Tower and associated equipment cabinets (2 proposed, 2 future, each 76" H x 30" W x 30" D) located on a concrete pad within the fenced compound. As evidenced in the structural report prepared by Walker Engineering, Inc., annexed hereto as Exhibit A, AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas.

AT&T Wireless' Facility Constitutes An Exempt Modification

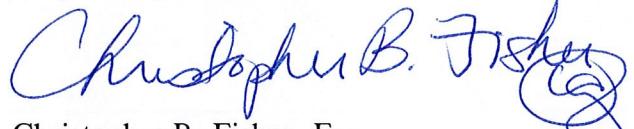
The proposed addition of AT&T Wireless' antennas and equipment to the Moxley Hill Road Facility constitutes an exempt "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Addition of AT&T Wireless' antennas and equipment to the Tower will not result in an increase of the Tower's height nor extend the site boundaries. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. As set forth in an Emissions Report prepared by Mark G. van der Hoek, Radio Frequency Engineer, annexed hereto as Exhibit B, the total radio frequency electromagnetic radiation power density at the Tower site's

boundary will not be increased to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. For all the foregoing reasons, addition of AT&T Wireless' facility to the Tower constitutes an exempt modification which will not have a substantially adverse environmental effect.

Conclusion

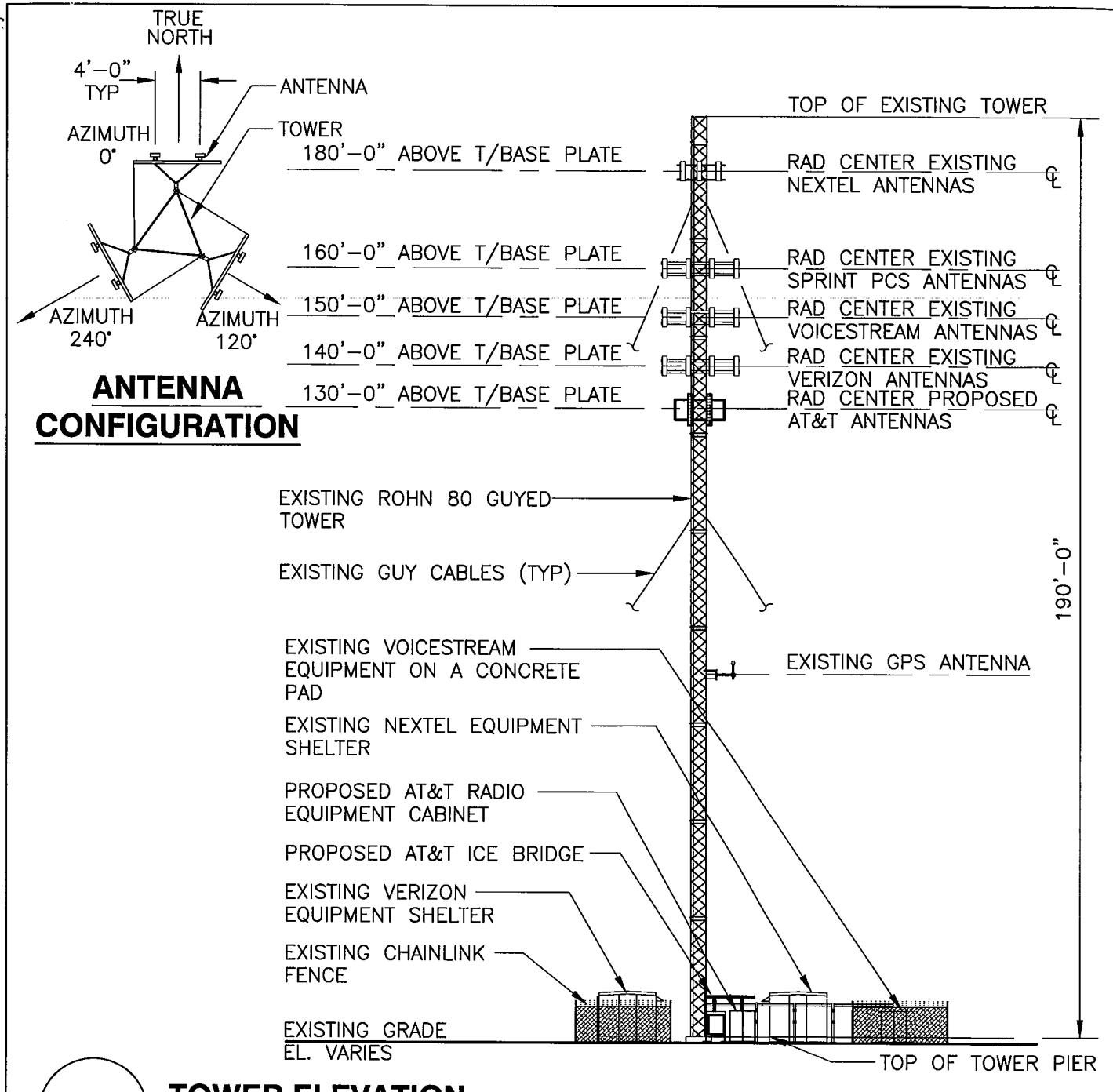
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Moxley Hill Road Facility meets the Council's exemption criteria.

Respectfully Submitted,



Christopher B. Fisher, Esq.
On behalf of AT&T Wireless

cc: Mayor, Town of Montville
RJ Wetzel, Bechtel



2

TOWER ELEVATION

SCALE: 1" = 30'-0"

NOTE:

LATITUDE: 41° 26' 09"

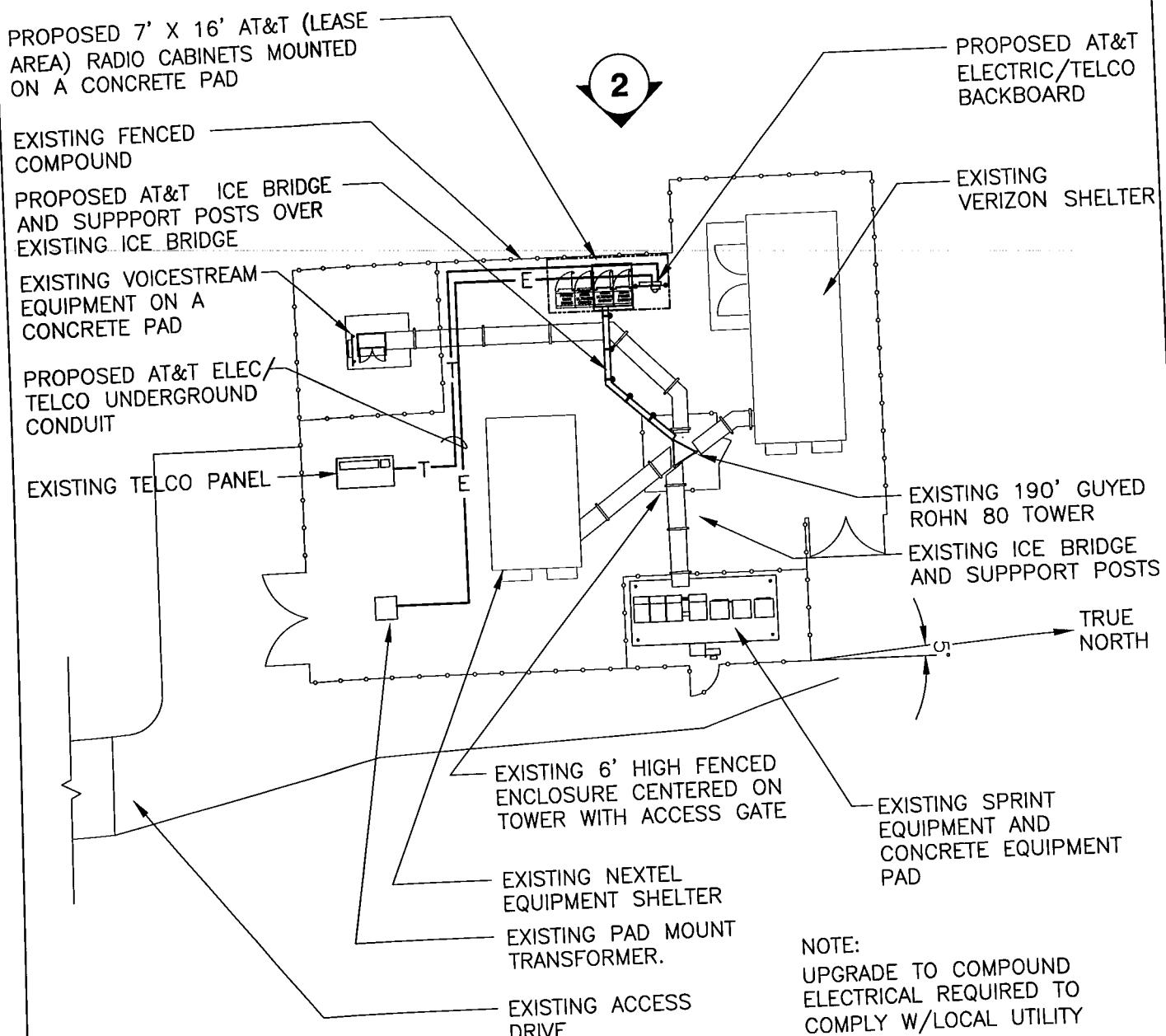
LONGITUDE: 72° 07' 20"

COORDINATES WERE TAKEN
WITH A HAND HELD GPS

NOTE:
STRUCTURAL ANALYSIS BY WALKER ENGINEERING, INC.
OF A 190' ROHN 80 GUY TOWER MONTVILLE-MOXLEY
HILL ROAD, 71 MOXLEY HILL ROAD, MONTVILLE, CT
06351 (CT-236) DATED MAY 31, 2002 BY J. L.
WALKER LICENSE NO. 21197

"ISSUED FOR SITING COUNCIL"

<p>Natcomm, LLC Engineering Consultants 63-2 North Branford Road Branford, Connecticut 06405 Tel. (203) 488-0580 Fax (203) 488-6587 Consulting Engineers - Project Management Civil - Structural - Mechanical - Electrical</p>	<p>AT&T AT&T WIRELESS PCS LLC 12 OMEGA DRIVE STAMFORD, CONNECTICUT 06907</p>	<p>DRAWING TITLE: SITING COUNCIL</p> <p>PROJECT INFORMATION: MONTVILLE CT-236 71 MOXLEY HILL ROAD MONTVILLE, CT 06360</p> <p>LESSOR: WIRELESS SOLUTIONS P.O. BOX 284 OLD LYME, CT 06371</p>	<p>DRAWING NO. 907-009-236A-SC2</p>
		<p>REVISION NO. A</p> <p>DATE ISSUED: 06/04/02</p> <p>SCALE: AS NOTED</p> <p>A/E PROJECT NO: 551A</p>	<p>DRAWN BY: CMS</p> <p>CHECKED BY: JJP</p> <p>APPROVED BY: CFC</p> <p>SHEET NO. 2 OF 2</p>



1

COMPOUND PLAN

SCALE: 1" = 30'-0"

NOTE:
LATITUDE: 41° 26' 09"
LONGITUDE: 72° 07' 20"
COORDINATES WERE TAKEN
WITH A HAND HELD GPS

"ISSUED FOR SITING COUNCIL"



Natcomm, LLC

63-2 North Branford Road
Branford, Connecticut 06405

Tel. (203) 488-0580
Fax (203) 488-8587

Consulting Engineers - Project Management
Civil - Structural - Mechanical - Electrical



AT&T

AT&T WIRELESS PCS LLC
12 OMEGA DRIVE
STAMFORD, CONNECTICUT 06907

DRAWING TITLE:
SITING COUNCIL
PROJECT INFORMATION:
MONTVILLE
CT-236
71 MOXLEY HILL ROAD
MONTVILLE, CT 06360

LESSOR:
WIRELESS SOLUTIONS
P.O. BOX 284
OLD LYME, CT 06371

DRAWING NO.
907-009-236A-SC1

REVISION NO. A	DRAWN BY: CMS
DATE ISSUED: 06/04/02	CHECKED BY: JJP
SCALE: AS NOTED	APPROVED BY: CFC
	SHEET NO. 1 OF 2

A/E PROJECT NO: 551A

WALKER ENGINEERING, INC.

8451 DUNWOODY PLACE
NORTHRIDGE 400, BLDG. 8

DUNWOODY, GA 30350

(770) 641-7306 FAX (770) 587-2196

SCANNED

Bechtel ID# 907-009-236-2

AWS ID# CIVIL-STRUCTURAL

N 33° 59' 13.6" W 84° 20' 36.8"

Mr. Jason J. Pintek
Natcomm, LLC
63-2 North Branford Road
Branford, CT 06405

06/04/02

CT-236.2

Montville

Sub: Structural Analysis of 190-ft ROHN 80 Guy Tower
71 Moxley Hill Road, Montville, CT 06360

Dear Mr. Pintek:

Walker Engineering has performed a Level-Two finite element, P-Δ structural re-analysis of the above noted tower in accordance with your Authorization for Services for the addition of the **AT&T Wireless** proposed antennas outlined below. This analysis consists of determining the forces on the tower caused by existing, proposed, and future loads. The existing, proposed, and future loads were provided by your office.

The subject tower is a 190-ft, three face, guyed-tower, designed and manufactured by ROHN in 1998. The tower manufacturer's drawings, ROHN eng. File No.: 37183AE001, Drawing No.: C980880, dated 04/21/98, were provided by your office. The tower geometry, member sizes, and foundation design loads were obtained from these data and are assumed to be accurate. The tower has also been assumed to be in good condition and capable of supporting its original full design capacity.

Our analysis was performed in accordance with TIA/EIA-222-F for an 85 mph¹ base windload, and 75% of the base windload with ½" radial ice, as specified by Natcomm, LLC.

Existing and proposed loads consist of the following:

at 180 ft Nextel: Nine panel antennas on three gateboom mounts, fed by nine 1-5/8"Ø coax cables.

at 167 ft Torque arm assembly.

at 160 ft Sprint: Twelve DB980H65 panel antennas on three gateboom mounts, fed by twelve 1-5/8"Ø coax cables.

¹ The minimum windspeed specified by EIA-222-F for New Condon County, CT is 85 mph.

at 150 ft Voicestream: Twelve panel antennas on three gateboom mounts, fed by twelve 1-5/8"Ø coax cables.

at 140 ft Verizon: Twelve DB874 panel antennas on three gateboom mounts, fed by twelve 1-5/8"Ø coax cables.

at 130 ft **AT&T (Proposed):** Six Allgon 7250 panel antennas on three T-frame sector mounts (copy attached), fed by twelve 1-1/4"Ø coax cables.

at 93 ft Torque arm assembly.

Note: Placement of coax cables ***is critical***. The analysis **assumes** that the coax cables (existing, future, and proposed) are installed on the tower per the Elevation and Cable Plan Drawing EL-1. Additional waveguide ladders may be required. *Please notify the undersigned prior to altering the cable routing configuration or if the coax configuration is different than the following chart.* Placement of small cables for beacons, ground rods, etc. are not critical.

<u>Existing:</u>	<u>Proposed/Future:</u>
<u>Face A:</u> 9ea 1-5/8"Ø to 180' (Nextel)	<u>12ea</u> 1-1/4"Ø to 130' (AT&T) (Install per drawing EL-1)
<u>Face B:</u> 12ea 1-5/8"Ø to 140' (Verizon)	None
<u>Face C:</u> 6ea 1-5/8"Ø to 160' (Sprint) 6ea 1-5/8"Ø to 150' (Voicestream)	6ea 1-5/8"Ø to 160' (Sprint) (Install per drawing EL-1) 6ea 1-5/8"Ø to 150' (Voicestream) (Install per drawing EL-1)

Tower Summary:

This analysis shows that the subject tower **is adequate** to support the existing, future, and proposed loads.

A copy of the full analysis is enclosed. A summary of the controlling load cases is provided below:

<u>Guys</u>	<u>Allowable</u>	<u>Existing/Proposed</u>	<u>% of Design</u>
at 167'	39.85 k	<u>19.41</u> k	49 %
at 93'	21.20 k	<u>14.89</u> k	70 %

<u>Tower Element</u>	<u>Combined Stress Index</u> ²
Legs (Max)	1.00
Diagonal Bracing (Max)	0.53

Foundation Summary:

The forces at the tower mast base and guy anchor foundations are less than the original design loads. The existing tower mast base and guy anchor foundations **are adequate** to support the existing, future, and proposed loads.

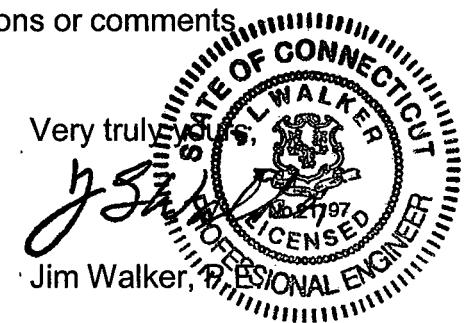
<u>Foundation Loads</u>	<u>Design</u> ³	<u>Existing/ Proposed</u>	<u>% of Capacity</u>
Mast	164.8 k (vert.)	123 k	75 %
Guy	59.2 k (vert.)	43 k	73 %
Anchor	66.1 k (horiz.)	51 k	77 %

As future loads are installed, the tower should be re-evaluated on a case-by-case basis.

The analysis is based on information provided to this office by Natcomm, LLC. If the existing conditions are different than the information in this report, Walker Engineering should be contacted for resolution of any issues.

Walker Engineering appreciates the opportunity to be of service in this matter. Please do not hesitate to give me a call if you have any questions or comments.

encl.



² Ratio of calculated loads versus total allowable loads; should be less than, or equal to, 1.00.

³ Original foundation reactions from ROHN Drawing No.: C980880, dated 04/21/98.



RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

907-909-236

June 27, 2002

**Prepared by AT&T Wireless Services, Inc.
Mark G. van der Hoek RF Engineer**

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1. Introduction

This report constitutes an RF exposure analysis for the proposed AT&T Wireless antenna facility to be located at *71 Moxley Hill Road, Montville, CT*. This analysis uses site-specific engineering data to determine the predicted levels of radio frequency (RF) electromagnetic energy in the vicinity of the proposed facility and compares those levels with the Maximum Permissible Exposure (MPE) limits established by the Federal Communications Commission.

2. Site Data

Site Name: <i>Montville SE</i>	
Number of simultaneously operating channels	12
Type of antenna	Allgon 7250.02
Power per channel (Watts ERP)	250.0 Watts
Height of antenna (feet AGL)	130 feet
Antenna Aperture Length	5 feet

3. RF Exposure Prediction

The following equations established by the FCC, in conjunction with the site data, were used to determine the levels of RF electromagnetic energy present in the vicinity of the proposed facility¹:

$$PowerDensity = \frac{0.64 * N * EIRP(\theta)}{\pi * R^2} \text{ (mW/cm}^2\text{)} \quad Eq. 1\text{-Far-field}$$

Where, **N**= Number of channels, **R**= distance in cm from the RC (Radiation Center) of antenna, and **EIRP(θ)** = The isotropic power expressed in milliwatts in the direction of prediction point. This is the correct equation for antennas which have their gain expressed in dBi, which is the usual case for the PCS bands.

$$PowerDensity = \frac{P_{in} / ch * N * 10^3}{2 * \pi * R * h * \alpha / 360} \text{ (mW/cm}^2\text{)} \quad Eq. 2\text{-Near-field}$$

Where **P_{in}/ch** = Input power to antenna terminals in watts/ch, **R** = distance to center of radiation, **h** = aperture height in meters, **α** = 3 dB beam-width of horizontal pattern.

¹ RF exposure is measured and predicted in terms of power density in units of milliwatts (mW), a thousandth of a watt, or microwatts (μ W), a millionth of a watt, per square centimeter (cm^2). Data comparing predictive analysis with on site measurements has demonstrated that power density can be effectively predicted at given locations in the vicinity of a wireless antenna facility.

4. FCC Guidelines for Evaluating the Environmental Effects of RF Radiation

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by a Second Memorandum Opinion and Order. These new rules represent a consensus of the federal agencies responsible for the protection of public health and the environment, including the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), the National Institute for Occupational Health and Safety (NIOSH), and the Occupational Safety and Health Administration (OSHA).

Under the laws that govern the delivery of wireless communications services in the United States, as amended by the Telecommunications Act of 1996, the FCC has exclusive jurisdiction over RF emissions from personal wireless antenna facilities, which include cellular, PCS, messaging and aviation sites.² Pursuant to its authority under federal law, the FCC has established rules to regulate the safety of emissions from these facilities.

5. Comparison with Standards

Exhibit A shows the levels of RF electromagnetic energy as one moves away from the antenna facility. As shown in Exhibit A, the maximum power density is 0.004962 mW/cm² which occurs at 140 feet from the antenna facility. The chart in exhibit A also shows that the power density is only .035 % of MPE at a distance of 1 foot. Table 1 below shows the Maximum Permissible Exposure (MPE) limits established by the FCC. There are different MPE limits for public/uncontrolled and occupational/controlled environments.

Table 1: Maximum Permissible Exposure limits for RF radiation

Frequency	Public/Uncontrolled	Occupational/controlled	Maximum power density at Accessible location
Cellular	.580 mW/cm ²	2.9 mW/cm ²	0.004962 mW/cm ²
PCS	1 mW/cm ²	5 mW/cm ²	

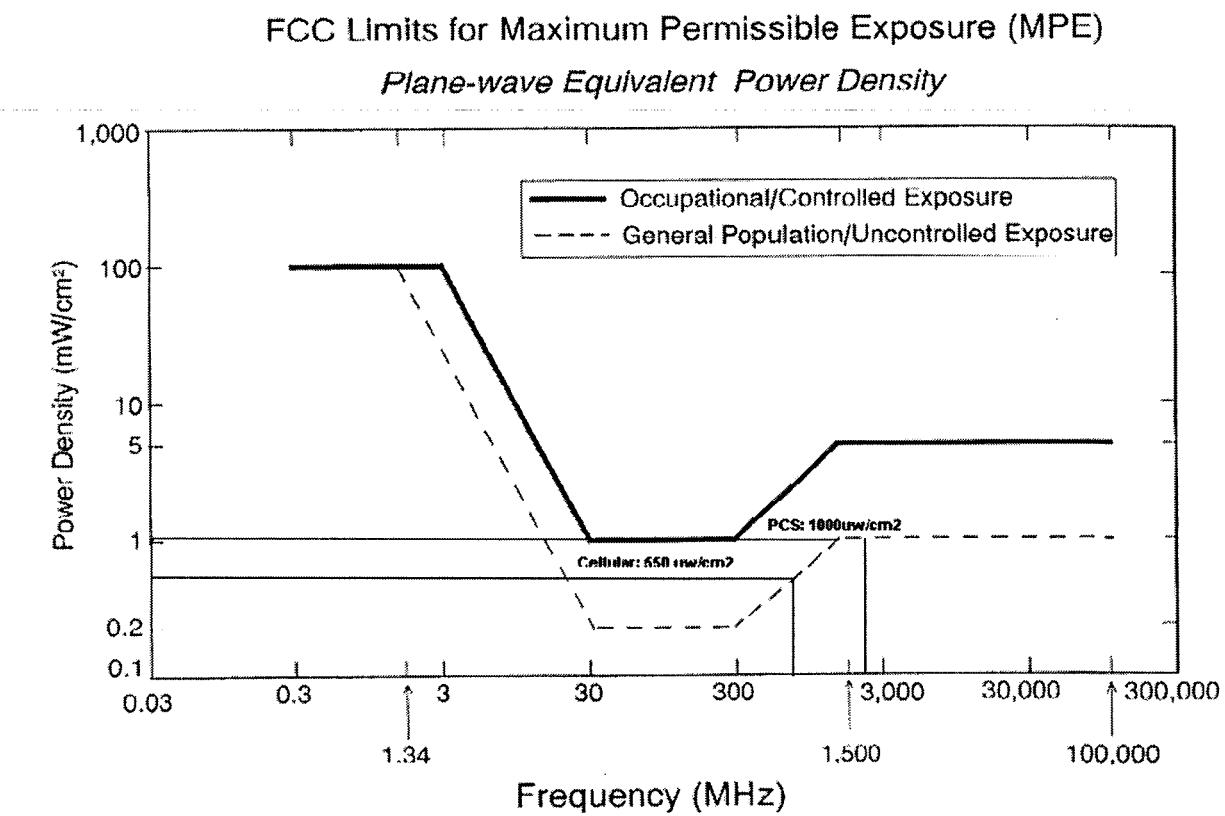
The maximum power density at the proposed facility represents only .81% of the public MPE limit for PCS frequencies.

6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.004962 mW/cm², a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

² 47 U.S. C. Section 332 (c) (7)(B)(iv) states that “[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission’s regulations concerning such emissions.”

7. FCC Limits for Maximum Permissible Exposure



8. Exhibit A

9. For Further Information

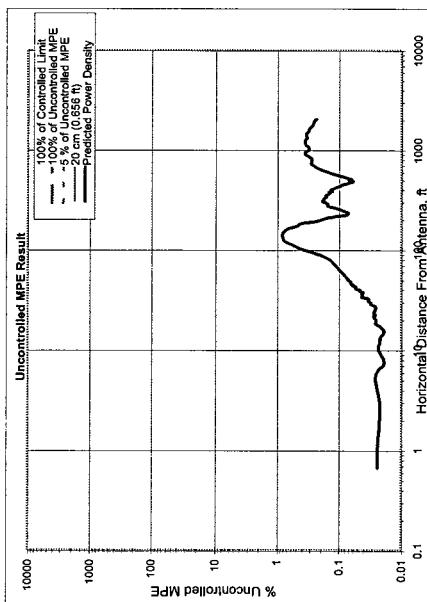
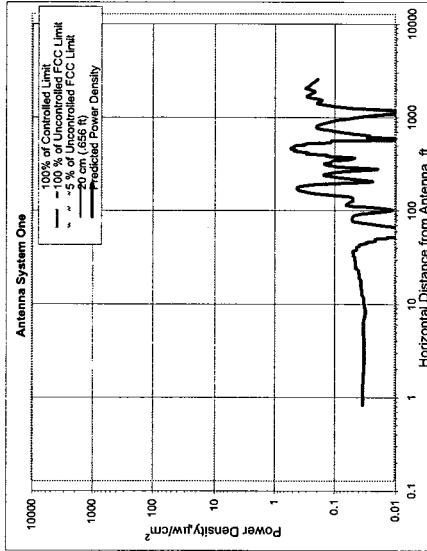
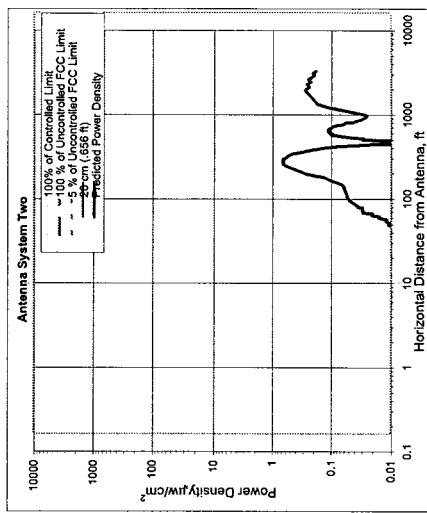
Additional information about the environmental impact of RF energy from personal wireless antenna facilities can be obtained from the Federal Communications Commission:

Dr. Robert Cleveland
Federal Communications Commission
Office of Engineering and Technology
Washington, DC 20554

RF Safety Program: 202-418-2464
Internet address: rfsafety@fcc.gov
RF Safety Web Site: www.fcc.gov/oet/rfsafety

10. References

- [1] The Communications Act of 1934, as amended by the Telecommunications Act of 1996, 47 U.S.C. Section 332 (c)(7)(B)(iv).
- [2] *Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation, Notice of Proposed Rulemaking*, ET Docket 93-62, 8 FCC Rcd 2849 (1993).
- [3] *Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation, Report and Order*, ET Docket 93-62, FCC 96-326, adopted August 1, 1996. 61 Federal Register 41006 (1996).
- [4] *Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation, Second Memorandum Opinion and Order*, ET Docket 93-62, adopted August 25, 1997.
- [5] *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, OET Bulletin 65, August, 1997.



Antenna System One

	units	Value
Frequency	MHz	134.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pow/Ch Into Ant.	Watts	5.60
(Center of Radiolink)	feet	150.00
Calculation Point (above ground or root surface)	feet	6.00
Antenna Model No.		Allison 7250/02
Max Ant. Gain	dBi	16.50
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.11
Ant. HBW	degrees	65.00
Distance to Antenna	feet	121.45
WOS?	Y/N?	n

Number of Antenna Systems: 5

Meets FCC Controlled Limits for The Antenna Systems.

Meets FCC Uncontrolled Limits for The Antenna Systems.

Meets 5% of FCC Uncontrolled Limits for The Antenna Systems.

No Further Maximum Permissible Exposure (MPE) Analysis Required.

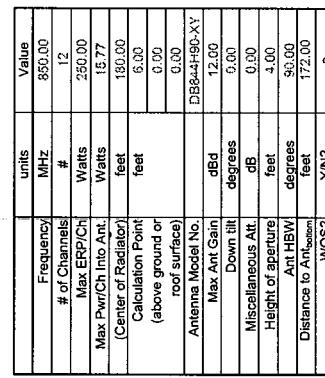
	Power Density mW/cm²	% of limit @ Horiz. Dist. feet
Maximum Power Density =	0.004962	0.81
123.03 times lower than the MPE limit for uncontrolled environment	140.00	
Composite Power (ERP) =	24-250.00	Watts

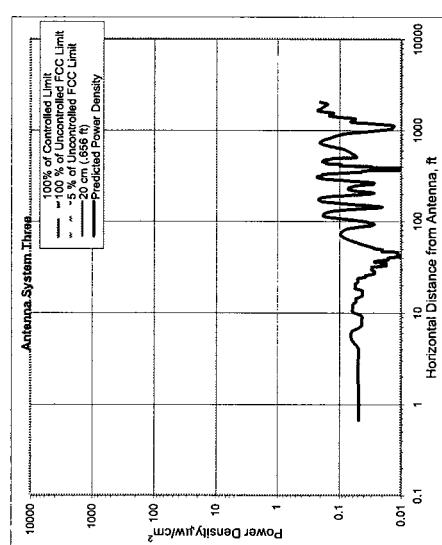
Performed By: Mark G. van der Hoek
Site ID: 907-009-236
Site Name: Monville SE
Site Location: 71 Moiley Hill Road
Monville, CT 06350

Ant System ONE Owner: AT&T
Sector: 1
Azimuth: 0/120/240

Ant System TWO Owner: Nextel
Sector: 0
Azimuth 0

Antenna System Two



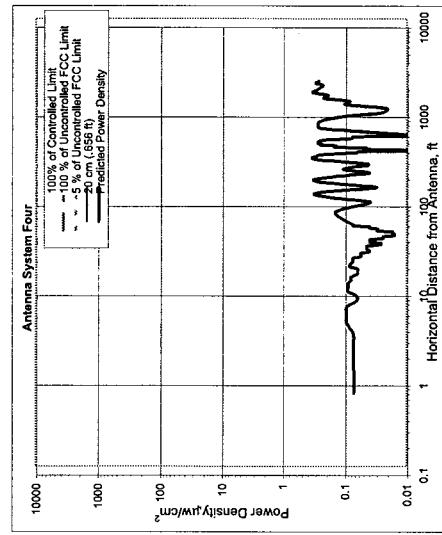


units	Value
MHz	1985.00
# of Channels	12
Max ERF/Ch	250.00
Max Pwr/Ch into Ant.	Watts
(Center of Radiator)	Watts
feet	5.86
Calculation Point (above ground or roof surface)	feet
feet	165.00
Antenna Model No.	Allison 7250.03
Max Ant Gain	dBd
Down tilt	degrees
degrees	0.00
Miscellaneous Att.	dB
Height of aperture	feet
Ant HBW	degrees
Distance to Antenna ^{WCS?}	feet
WCS?	n
YIN?	n

Ant System Three Owner: Sprint
Sector: 0
Azimuth: 0

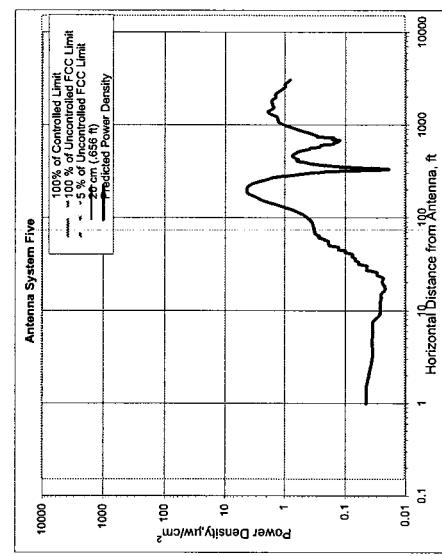
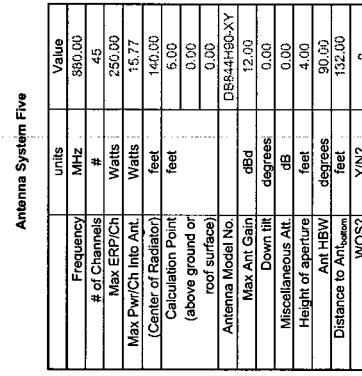
Ant System Four Owner: VoiceStream
Sector: 0
Azimuth: 0

Ant System Five Owner: Verizon
Sector: 0
Azimuth: 0

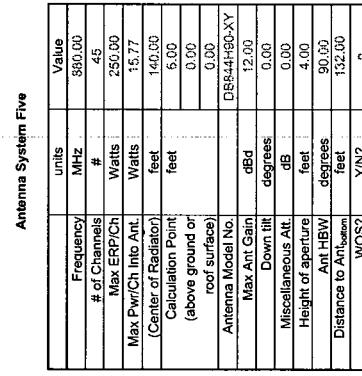


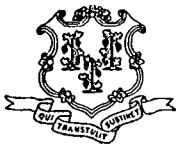
units	Value
Frequency	MHz
# of Channels	#
Max ERF/Ch	Watts
Max Pwr/Ch into Ant.	Watts
(Center of Radiator)	Watts
feet	5.86
Calculation Point (above ground or roof surface)	feet
feet	165.00
Antenna Model No.	Allison 7250.03
Max Ant Gain	dBd
Down tilt	degrees
degrees	0.00
Miscellaneous Att.	dB
Height of aperture	feet
Ant HBW	degrees
Distance to Antenna ^{WCS?}	feet
WCS?	n
YIN?	n

units	Value
Frequency	MHz
# of Channels	#
Max ERF/Ch	Watts
Max Pwr/Ch into Ant.	Watts
(Center of Radiator)	feet
feet	15.77
Calculation Point (above ground or roof surface)	feet
feet	140.00
Antenna Model No.	DB44H8G-X-Y
Max Ant Gain	dBd
Down tilt	degrees
degrees	0.00
Miscellaneous Att.	dB
Height of aperture	feet
Ant HBW	degrees
Distance to Antenna ^{WCS?}	feet
WCS?	n
YIN?	n



units	Value
Frequency	MHz
# of Channels	#
Max ERF/Ch	Watts
Max Pwr/Ch into Ant.	Watts
(Center of Radiator)	feet
feet	1345.00
Calculation Point (above ground or roof surface)	feet
feet	0.00
Antenna Model No.	Allison 7250.03
Max Ant Gain	dBd
Down tilt	degrees
degrees	0.00
Miscellaneous Att.	dB
Height of aperture	feet
Ant HBW	degrees
Distance to Antenna ^{WCS?}	feet
WCS?	n
YIN?	n





STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

July 23, 2002

Honorable Howard R. Beetham, Jr.

Mayor

Town of Montville

Town Hall

310 Norwich New London Turnpike

Uncasville, CT 06382

RE: **EM-AT&T-086-020701** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 71 Moxley Hill Road, Montville, Connecticut.

Dear Mayor Beetham:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for August 1, 2002, at 2:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

SDP/laf

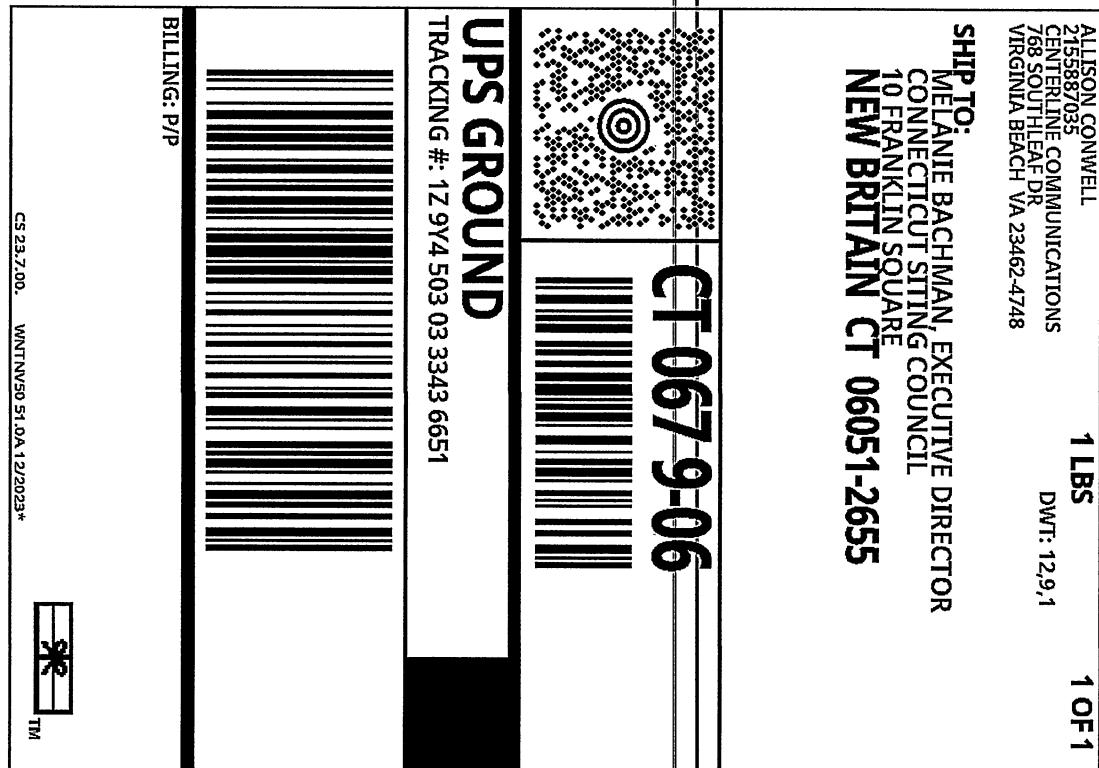
S. Derek Phelps
Executive Director

SDP/laf

Enclosure: Notice of Intent

c: Marcia Vlaun, Town Planner, Town of Montville

EXHIBIT 7



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1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.
2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**
Customers without a Daily Pickup
Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services (SM) (mailing via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
4. **UPS Access Point™**
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VIRGINIA BEACH, VA 23462
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THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23456
400 PRINCESS ANN RD
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23462
UPS STORE # 1935
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23456
UPS Access Point™
400 PRINCESS ANN RD
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23462
UPS STORE # 1935
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH, VA 23456



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Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

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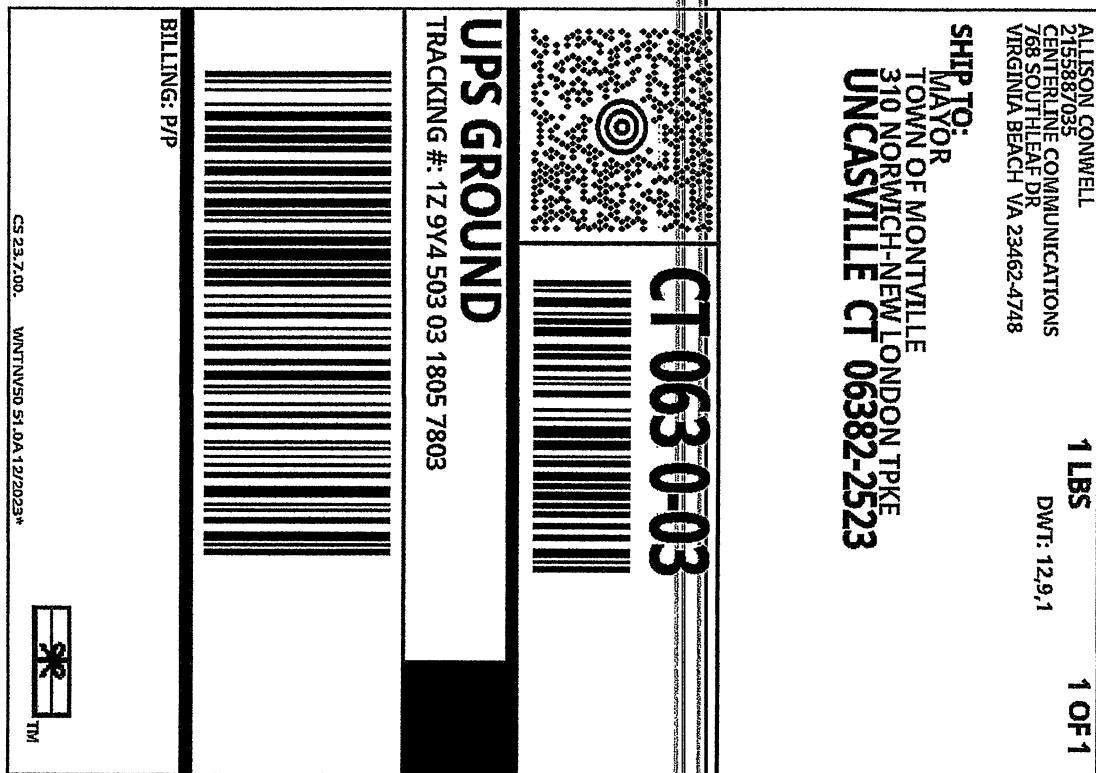
Hand the package to any UPS driver in your area.

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UPS Access Point™
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4690 PROGRESS ANN RD
2085 LYNNHURST PKWY
THE UPS STORE # 1435
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VIRGINIA BEACH, VA 23462



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2. Fold the printed label at the solid line labeled. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
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- Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
- Hard the package to any UPS driver in your area.
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