

July 6, 2021

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

Re: Notice of Exempt Modifications – AT&T Site CT2036
AT&T Telecommunications Facility @ 751 Higgins Road, Cheshire, CT

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 250’ self-support tower at the above referenced address, latitude 41.4874639, longitude -72.9293319. Said self-support tower is owned and managed by AT&T Towers.

AT&T desires to modify its existing telecommunications facility by replacing three (3) antenna, replacing three (3) RRUs, adding three (3) remote radio units, removing three (3) diplexers and removing three (3) TMAs as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Group, last revised on June 29, 2021. The centerline height of the existing antennas is and will remain at 255 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: Rob Oris, JR. Chairman of the Town of Cheshire; William S. Voelker Town Planner of the Town of Cheshire and AT&T Towers, as property and tower 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 alternation 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 July 1, 2021 and prepared by GPD 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 Hebel

Site Acquisition Consultant – Agent for AT&T
Centerline Communications LLC
750 West Center St. Ste 301
West Bridgewater, MA 02379
215-588-7035
ahebel@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 Cheshire Original Tower Approval Records
 Exhibit 7 – Notice Deliver Confirmations

Cc: Sean Kimball, Town of Cheshire as elected official
 William Voelker Town Planner, Town of Cheshire
 AT&T Towers, Property and Tower Owner

EXHIBIT 1

PROJECT INFORMATION

SCOPE OF WORK: ITEMS TO BE MOUNTED ON THE EXISTING LATTICE TOWER:

- NEW AT&T ANTENNAS: DMP65R-BU8DA (TOTAL OF 1 FOR ALPHA SECTOR)
- NEW AT&T ANTENNAS: DMP65R-BU6DA (TYP. OF 1 PER BETA AND GAMMA SECTOR, TOTAL OF 2)
- NEW AT&T RRHS: 4449 B5/B12 RRHS (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRHS: RRUS-32 B66A RRHS (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- INSTALL (3) Y-CABLES.

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

- INSTALL (1) 6630.
- INSTALL (1) XMU.
- INSTALL (1) IDLe.

ITEMS TO BE REMOVED:

- EXISTING AT&T ANTENNA: AM-X-CD-16-65-00T-RET (TYP. OF 1 PER ALPHA & BETA SECTOR, TOTAL OF 2).
- EXISTING AT&T ANTENNA: SBNH-1D6565C (TOTAL OF 1 FOR GAMMA).
- EXISTING AT&T TMA: (DTMABPO721VG12A) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T DIPLEXERS: (CM1007-DBPXBC-003) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRH: RRUS-11 B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).

ITEMS TO REMAIN:

- (6) ANTENNAS, (9) RRU'S, (3) SURGE ARRESTOR,
- (6) COAX CABLES, (6) DC POWER & (3) FIBER.

SITE ADDRESS: 751 HIGGINS ROAD
CHESHIRE, CT 06410

LATITUDE: 41.487463° N, 41° 29' 14.87" N

LONGITUDE: 72.929331° W, 72° 55' 45.59" W

TYPE OF SITE: LATTICE TOWER / INDOOR EQUIPMENT

STRUCTURE HEIGHT: 249'-0"±

RAD CENTER: 255'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT2036

SITE NAME: CHESHIRE SW

FA CODE: 10034996

PACE ID: MRCTB048514 & MRCTB048647

PROJECT: LTE 5C & 5G NR 2021 UPGRADE

ISSUED FOR PERMITTING

VICINITY MAP

DIRECTIONS TO SITE:

HEAD SOUTHEAST TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411, TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. KEEP RIGHT TO STAY ON I-91 S. TAKE EXIT 18 FOR I-691 W TOWARD MERIDEN/WATERBURY. CONTINUE ONTO I-691 W. TAKE EXIT 1 ON THE LEFT FOR I084 W TOWARD WATERBURY/DANBURY. MERGE ONTO I-84. TAKE EXIT 26 FOR CT-70 TOWARD CHESHIRE/PROSPECT. TURN LEFT ONTO CT-70 E/STATE HWY 801. TURN RIGHT ONTO MOUNTAIN RD. TURN LEFT ONTO HIGGINS RD. TURN RIGHT.

GENERAL NOTES

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.

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
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A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	ANTENNA LAYOUTS	1
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A-4	DETAILS	1
G-1	GROUNDING DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1



72 HOURS



CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455

OR CALL 811

UNDERGROUND SERVICE ALERT

HGD HUDSON Design Group LLC
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845
TEL: (978) 557-5553 FAX: (978) 336-5586

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301 WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT2036
SITE NAME: CHESHIRE SW

751 HIGGINS ROAD
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NEW HAVEN COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
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NO.	DATE	REVISIONS	BY	CHK	APP'D
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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: MR

AT&T
TITLE SHEET
LTE 5C & 5G NR 2021 UPGRADE
SITE NUMBER: CT2036 DRAWING NUMBER: T-1 REV: 1

Professional Engineer Seal: Daniel P. Hamm, No. 24178, State of Connecticut

GROUNDING NOTES

1. 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) LIGHTNING 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. 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.
12. 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

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR – CENTERLINE
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER – AT&T MOBILITY
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 BE SCALED 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 CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. 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.
9. 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.
10. 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.
11. 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.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. 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 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

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 (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REP	REFERENCE		

45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

**SITE NUMBER: CT2036
 SITE NAME: CHESHIRE SW**

751 HIGGINS ROAD
CHESHIRE, CT 06410
NEW HAVEN COUNTY

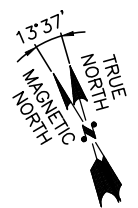
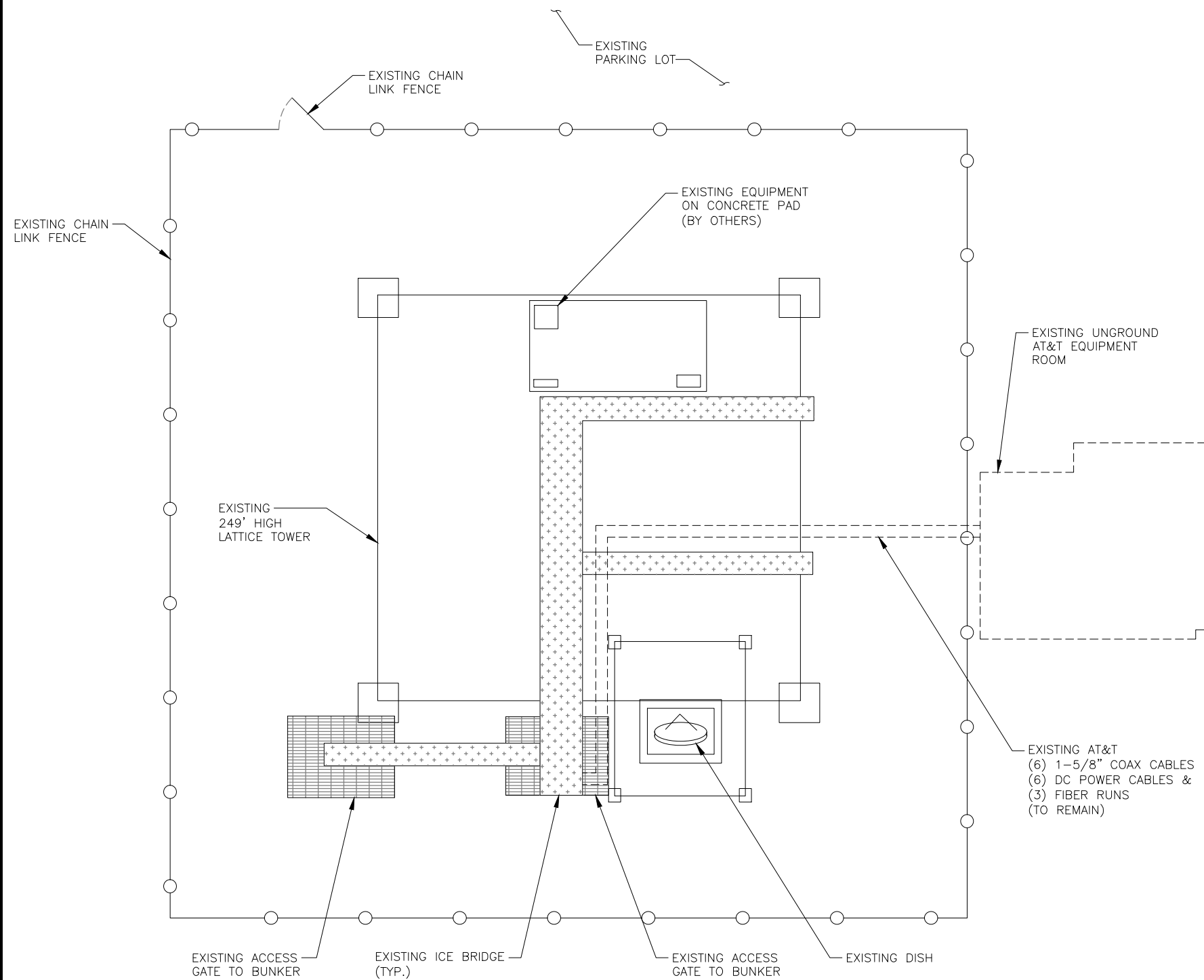
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: MR		

AT&T

GENERAL NOTES
 LTE 5C & 5G NR 2021 UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CT2036	GN-1	1



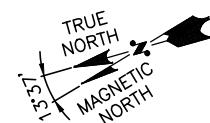
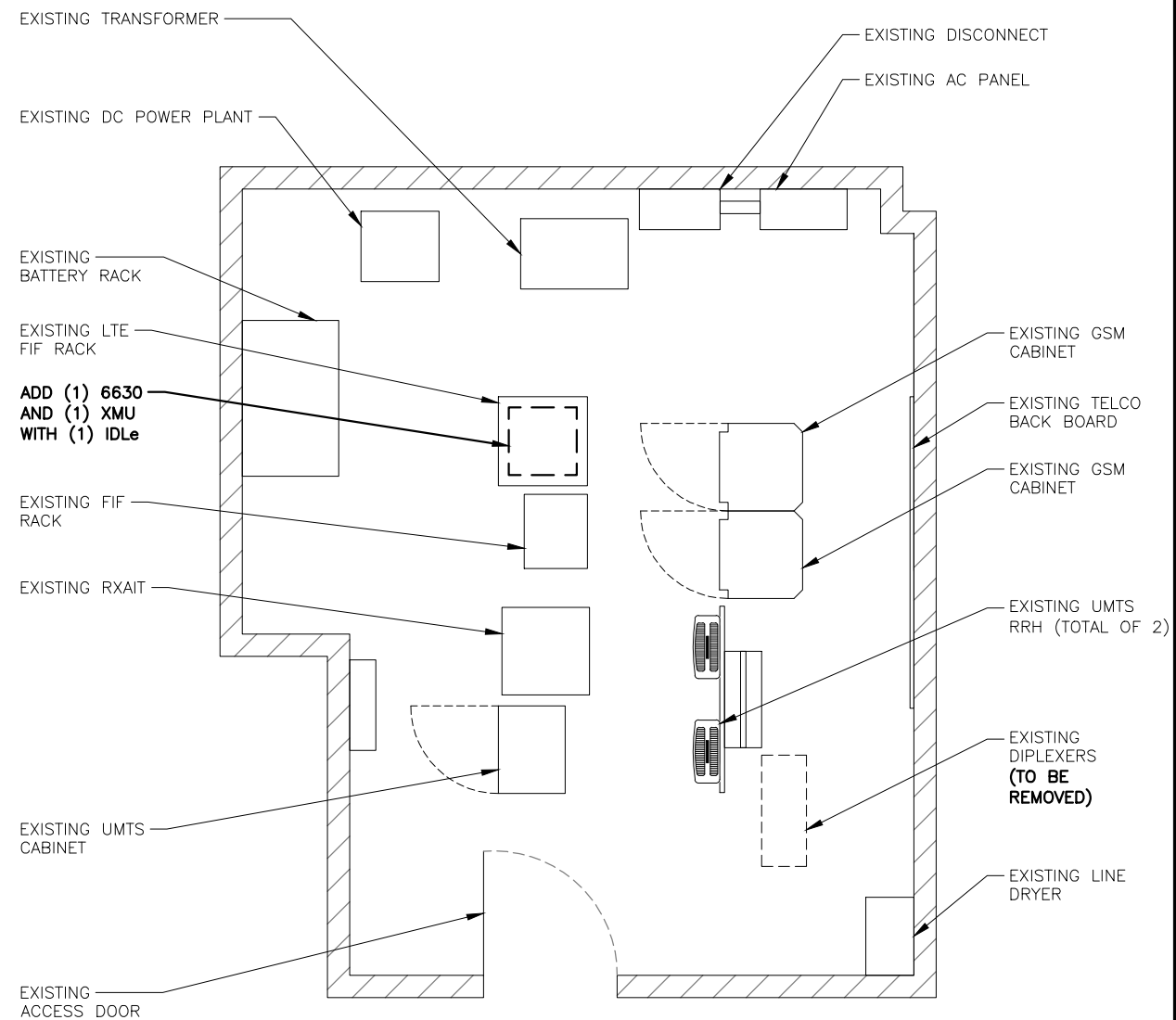
COMPOUND PLAN
 22x34 SCALE: 3/16"=1'-0"
 11x17 SCALE: 3/32"=1'-0"



NOTE:
 AN ANALYSIS FOR THE CAPACITY OF THE EXISTING **ANTENNA MOUNT** TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: JUNE 21, 2021

NOTE:
 AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

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



EQUIPMENT PLAN
 22x34 SCALE: 1/2"=1'-0"
 11x17 SCALE: 1/4"=1'-0"



HG HUDSON Design Group LLC
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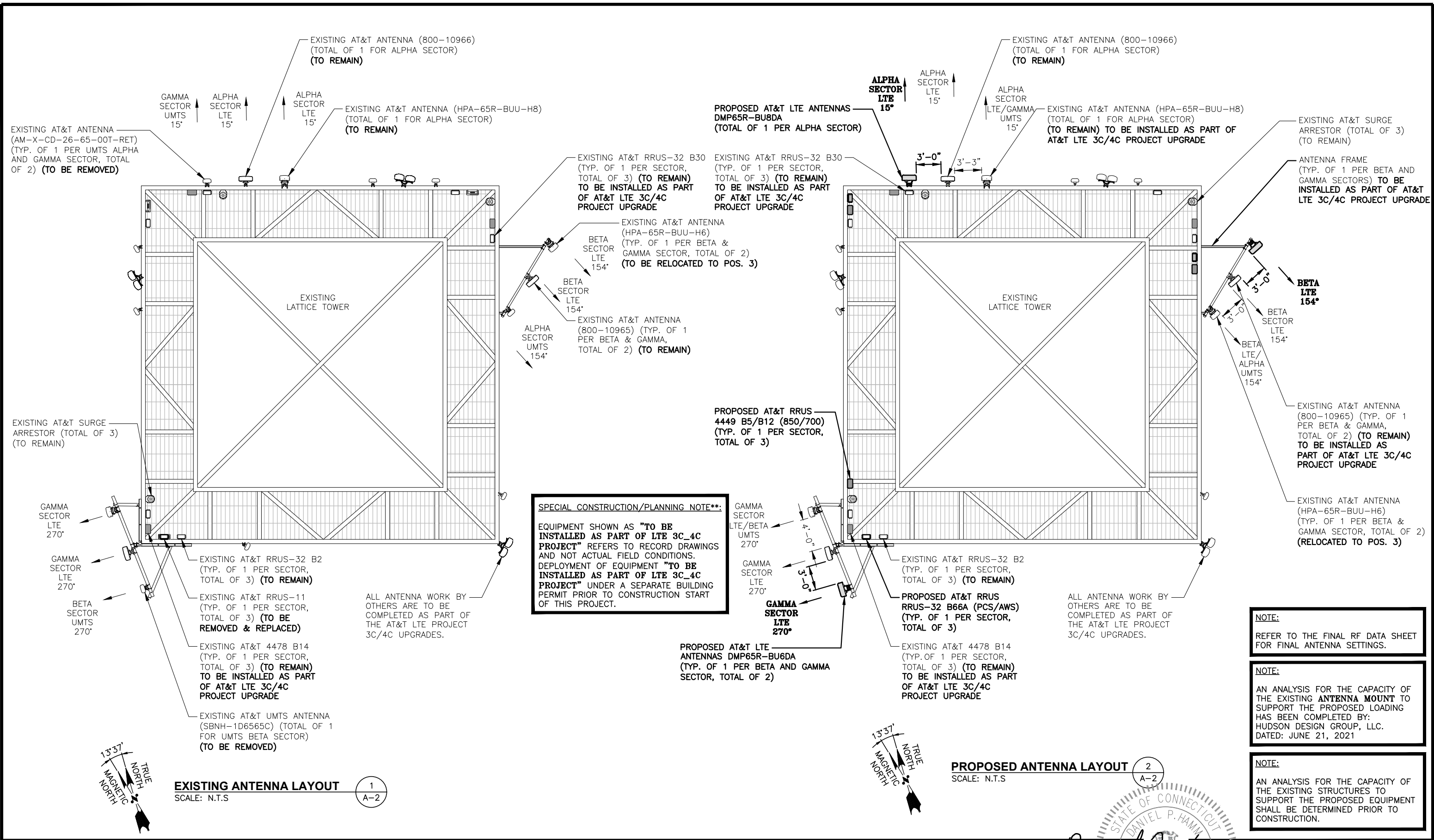
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Daniel P. Hamm
 STATE OF CONNECTICUT
 DANIEL P. HAMM
 No. 24178
 LICENSED PROFESSIONAL ENGINEER

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AT&T
COMPOUND & EQUIPMENT PLANS
LTE 5C & 5G NR 2021 UPGRADE

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Daniel P. Hamm
No. 24178
LICENSED PROFESSIONAL ENGINEER
STATE OF CONNECTICUT

AT&T
ANTENNA LAYOUTS
LTE 5C & 5G NR 2021 UPGRADE
SITE NUMBER: CT2036
DRAWING NUMBER: A-2
REV: 1

☉ OF PROPOSED & EXISTING AT&T ANTENNAS
 ELEV. 255'-0"± (AGL)
 ☉ TOP OF LATTICE TOWER
 ELEV. 249'-0"± (AGL)

EXISTING AT&T LTE ANTENNAS
 (TYP. OF 2 PER SECTOR, TOTAL OF 6)
 (TO REMAIN)

PROPOSED AT&T LTE ANTENNAS
 (TOTAL OF 1 PER SECTOR, TOTAL OF 3)

EXISTING AT&T RRH'S (TYP. OF 3 PER SECTOR, TOTAL OF 9) (TO REMAIN)

PROPOSED AT&T RRH'S (TYP. OF 2 PER SECTOR, TOTAL OF 6)

EXISTING ANTENNAS (TYP.)

EXISTING WHIP ANTENNA (TYP.)

EXISTING LATTICE TOWER

EXISTING T-MOBILE EQUIPMENT

EXISTING ICE CANOPY

EXISTING DISH (TYP.)

EXISTING CHAIN-LINK FENCE

EXISTING ENTRANCE TO UNDERGROUND FACILITY

EXISTING AT&T (6) 1-5/8" COAX CABLES (6) DC POWER CABLES & (3) FIBER RUNS (TO REMAIN)

EXISTING ICE BRIDGE (TYP.)

EXISTING TELCO

EXISTING ENTRANCE TO UNDERGROUND FACILITY

☉ GROUND LEVEL
ELEV. 0'-0"± (AGL)

ELEVATION
 22x34 SCALE: 1/16"=1'-0"
 11x17 SCALE: 1/32"=1'-0"
 0 8'-0" 16'-0" 32'-0" 48'-0"

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

NOTE:
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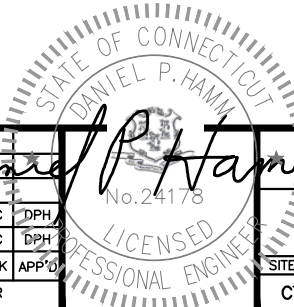
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A	05/28/21	ISSUED FOR REVIEW	MR	HC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: MR		



AT&T	
ELEVATION	
LTE 5C & 5G NR 2021 UPGRADE	
SITE NUMBER	DRAWING NUMBER
CT2036	A-3
REV	1

ANTENNA SCHEDULE

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ϕ HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	FREQUENCY	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	-	-	-	-	-	-	-	-	-	-	-	(E) (1) RAYCAP DC6-48-60-18-8F
A2	PROPOSED	LTE 700 BC/850/AWS	DMP65R-BU8DA	96.0x20.7x7.7	255'-0"±	15°	-	(P)(1) 4449 B5/B12 (P)(1) RRUS-32 B66A	-	17.9"x13.2"x10.4" 27.2"x12.1"x7.0"	(2) DC POWER & (1) FIBER	
A3	EXISTING	LTE 700 B14 WCS	800-10966**	96.0x20.0x6.9	255'-0"±	15°	-	(E)(1) RRUS-32 B30 (WCS)** (E)(1) 4478 B14 (700)**	-	-	-	
A4	EXISTING	ALPHA SECTOR LTE PCS/GAMMA UMTS 850	HPA-65R-BUU-H8	92.4x14.8x7.4	255'-0"±	15°	-	(E)(1) RRUS-32 B2	-	-	(2)1-5/8 COAX	
B1	PROPOSED	LTE 700 BC/850/AWS	DMP65R-BU6DA	71.2x20.7x7.7	255'-0"±	154°	-	(P)(1) 4449 B5/B12 (P)(1) RRUS-32 B66A	-	17.9"x13.2"x10.4" 27.2"x12.1"x7.0"	-	(E) (1) RAYCAP DC6-48-60-18-8F
B2	EXISTING	LTE 700 B14 WCS	800-10965**	78.7x20.0x6.9	255'-0"±	154°	-	(E)(1) RRUS-32 B30 (WCS)** (E)(1) 4478 B14 (700)**	-	-	(2) DC POWER & (1) FIBER	
B3	EXISTING	BETA SECTOR LTE PCS/ALPHA UMTS 850	HPA-65R-BUU-H6	72.0x14.8x9.0	255'-0"±	154°	-	(E)(1) RRUS-32 B2	-	-	(2)1-5/8 COAX	
B4	-	-	-	-	-	-	-	-	-	-	-	
C1	-	-	-	-	-	-	-	-	-	-	-	(E) (1) RAYCAP DC6-48-60-18-8F
C2	PROPOSED	LTE 700 BC/850/AWS	DMP65R-BU6DA	71.2x20.7x7.7	255'-0"±	270°	-	(P)(1) 4449 B5/B12 (P)(1) RRUS-32 B66A	-	17.9"x13.2"x10.4" 27.2"x12.1"x7.0"	(2) DC POWER & (1) FIBER-	
C3	EXISTING	LTE 700 B14 WCS	800-10965**	78.7x20.0x6.9	255'-0"±	270°	-	(E)(1) RRUS-32 B30 (WCS)** (E)(1) 4478 B14 (700)**	-	-	-	
C4	EXISTING	GAMMA SECTOR LTE PCS/BETA UMTS 850	HPA-65R-BUU-H6	72.4x14.8x9	255'-0"±	270°	-	(E)(1) RRUS-32 B2	-	-	(2)1-5/8 COAX	

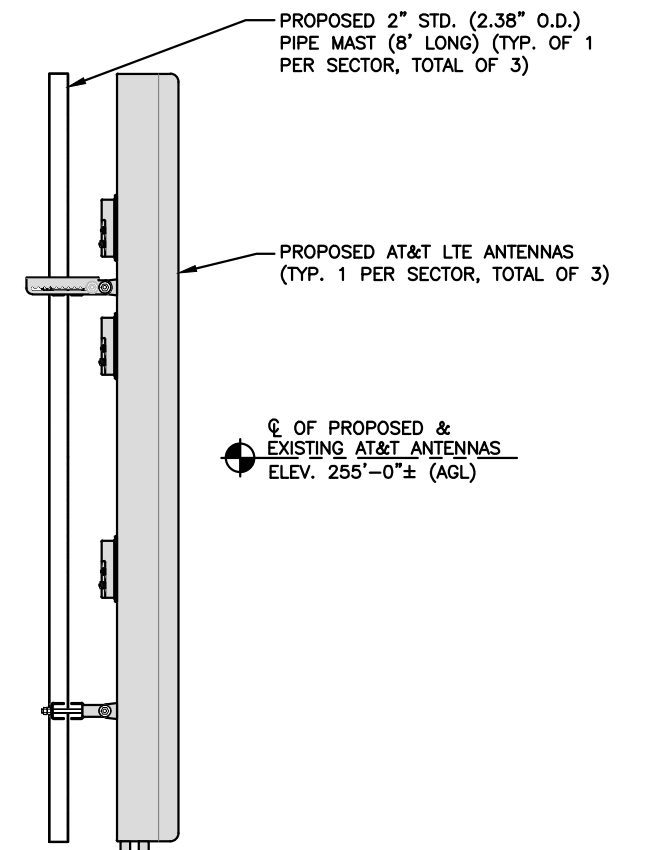
NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: JUNE 21, 2021

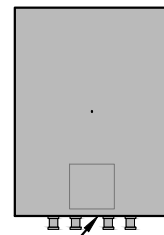
NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

SPECIAL CONSTRUCTION/PLANNING NOTE:**
EQUIPMENT SHOWN AS "TO BE INSTALLED AS PART OF LTE 5C_6C_5G PROJECT" REFERS TO RECORD DRAWINGS AND NOT ACTUAL FIELD CONDITIONS. DEPLOYMENT OF EQUIPMENT "TO BE INSTALLED AS PART OF LTE 5C_6C_5G PROJECT" UNDER A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION START OF THIS PROJECT.

FINAL ANTENNA SCHEDULE 1
SCALE: N.T.S. A-3



NOTE:
SEE RFDS FOR RRU FREQUENCY AND MODEL NUMBER



PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

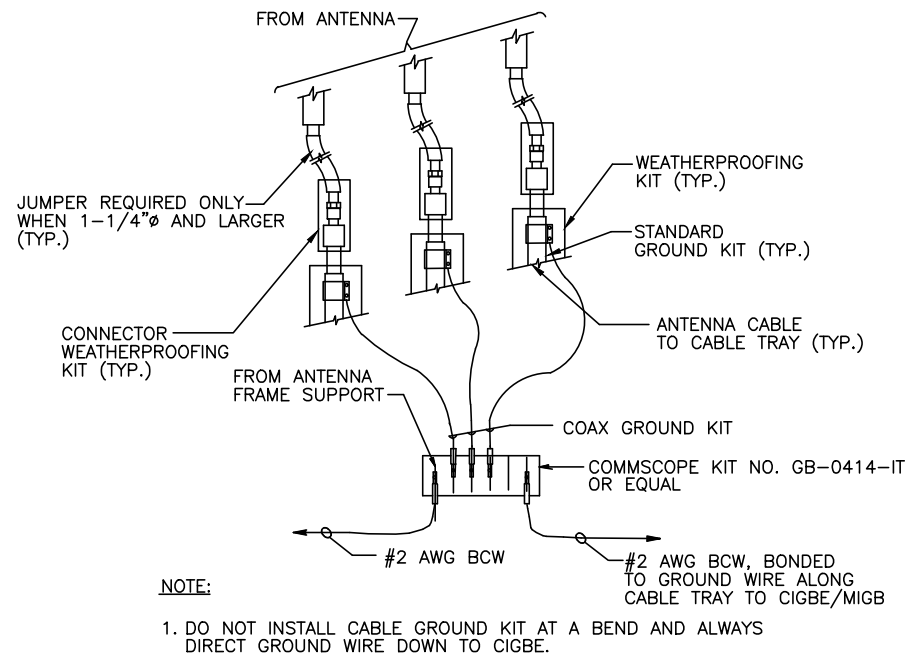
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRUS DETAIL 2
SCALE: N.T.S. A-3

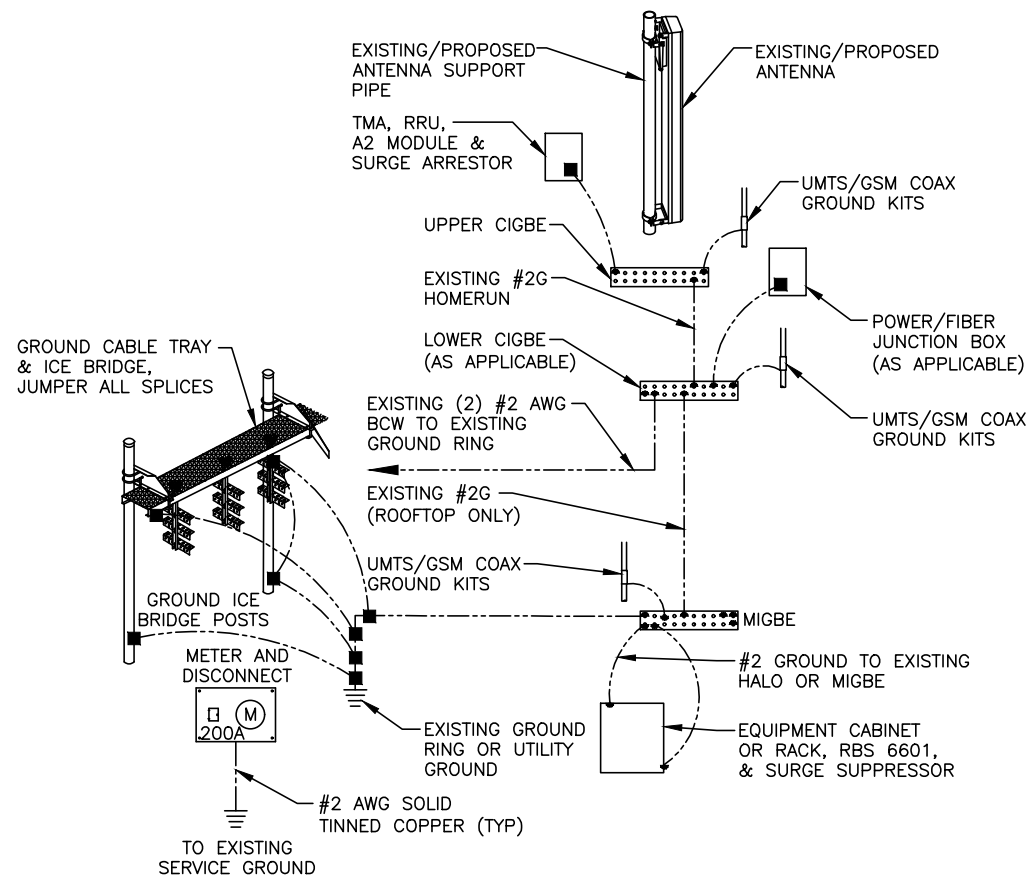
RRU CHART		
QUANTITY	MODEL	SIZE (L x W x D)
P(3)	4449 (850/700)	17.9"x13.2"x10.4"
P(3)	RRUS-32 B66A (AWS)	27.2"x12.1"x7.0"
E(3)	4478 B14 (700)	18.1"x13.4"x8.3"
E(6)	RRUS-32 (WCS)	27.2"x12.1"x7.0"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

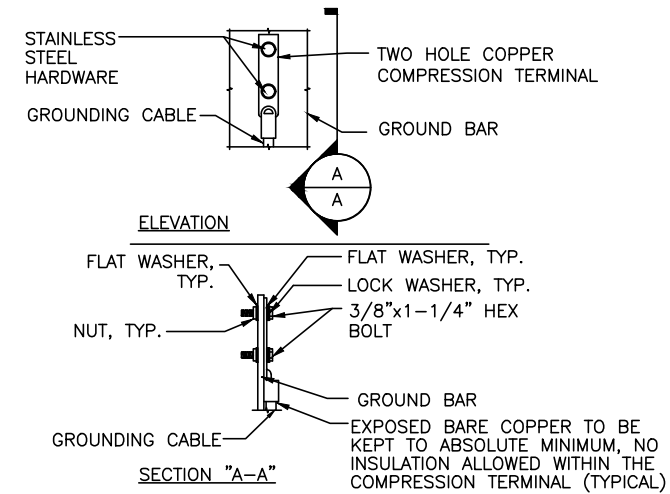
PROPOSED LTE ANTENNA MOUNTING DETAIL 3
22x34 SCALE: 1"=1'-0" A-3
11x17 SCALE: 1/2"=1'-0"
0'-6" 1'-0" 2'-0" 3'-0"



GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



GROUNDING RISER DIAGRAM 2
SCALE: N.T.S. G-1



- 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

TYPICAL GROUND BAR CONNECTION DETAIL 3
SCALE: N.T.S. G-1

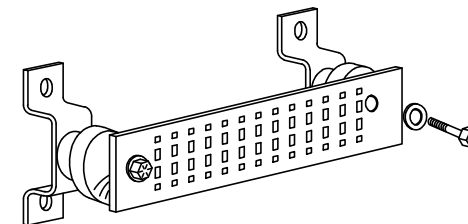
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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)

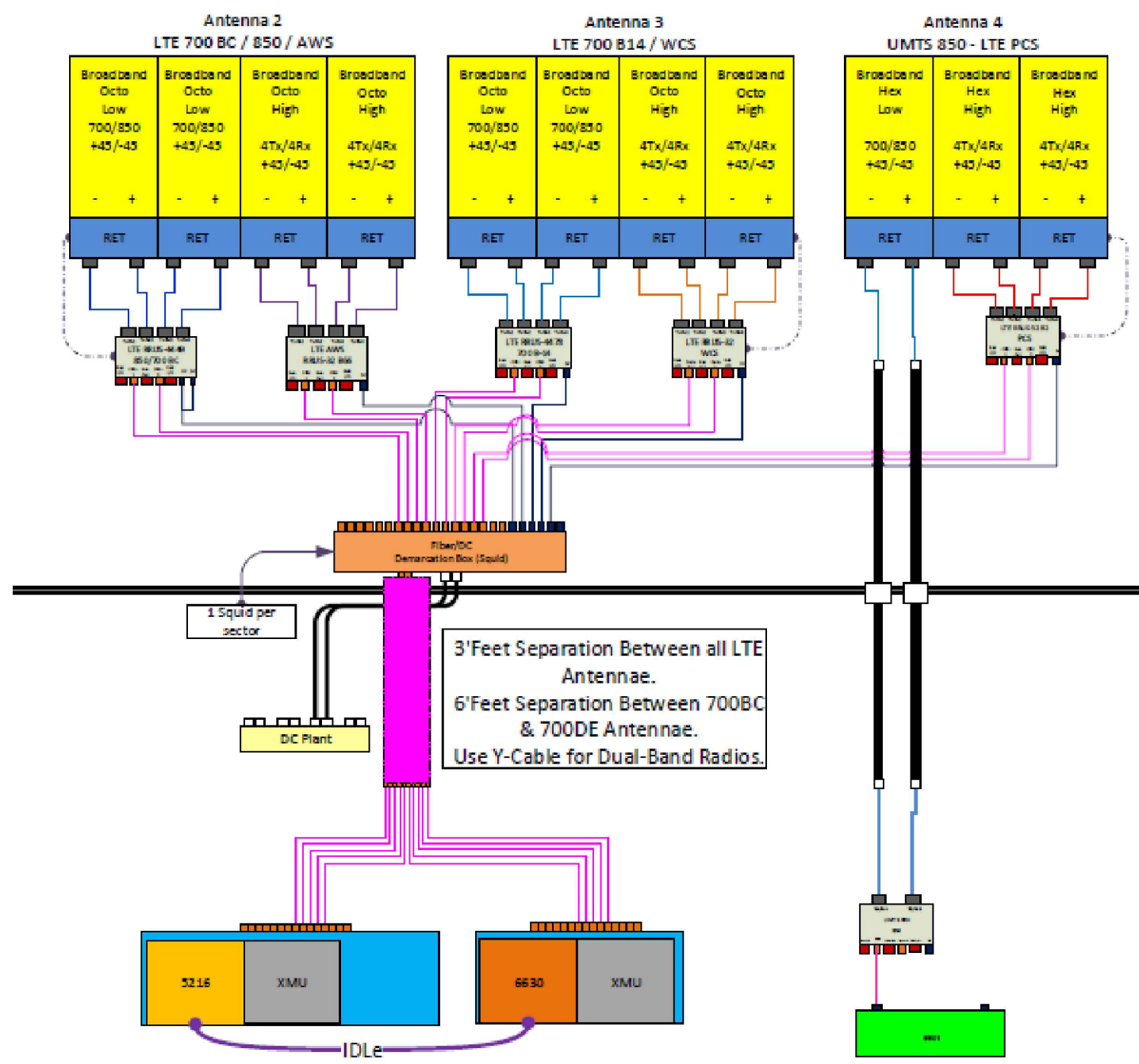


GROUND BAR - DETAIL (AS REQUIRED) 4
SCALE: N.T.S. G-1

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	06/29/21	ISSUED FOR PERMITTING	SG	HC	DPH
A	05/28/21	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: MR



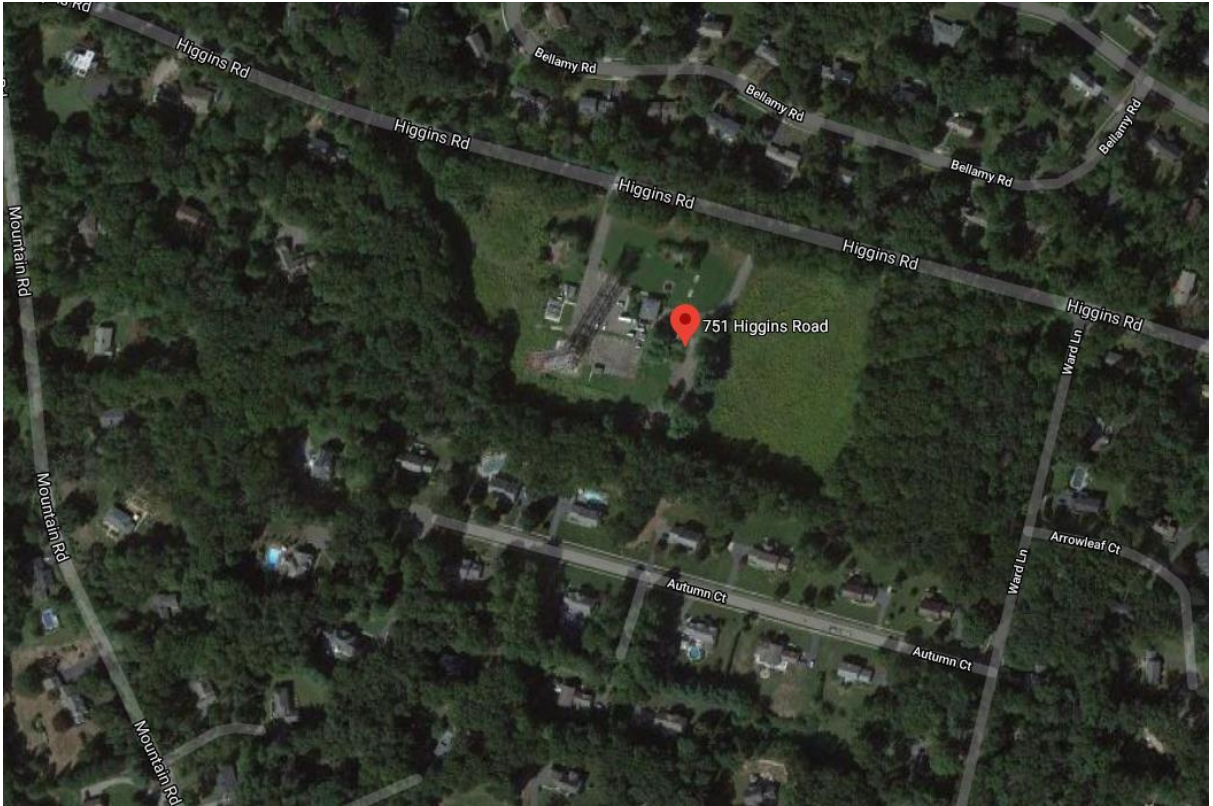


RF PLUMBING DIAGRAM 1
SCALE: N.T.S. RF-1

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



751 Higgins Rd

Cheshire, CT 06410



Directions



Save



Nearby



Send to your
phone



Share



F3QC+2J Cheshire, Connecticut



Town of Cheshire, CT

Property Listing Report

Map Block Lot **69-53**

Building # **1** Unique Identifier **00712600**

Property Information

Property Location	751 HIGGINS RD
Mailing Address	P O BOX 7207 BEDMINSTER NJ 07921
Land Use	Light Industrial
Zoning Code	R-40
Neighborhood	I-1C

Owner	AMER TEL & TEL CO
Co-Owner	AT&T PROPERTY TAX UNIT
Book / Page	0148/0566
Land Class	Industrial
Census Tract	3434
Acreage	19.8

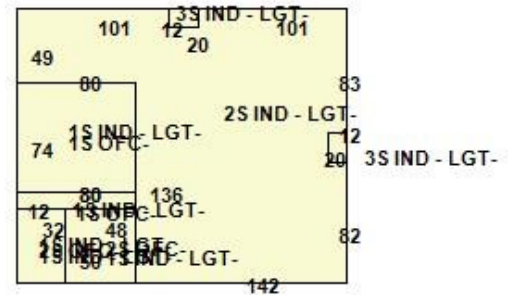
Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	2594709	1816300
Outbuildings	29640	20750
Land	429316	300520
Total	3053665	2137570

Utility Information

Electric	No
Gas	No
Sewer	No
Public Water	No
Well	No



Primary Construction Details

Year Built	1968
Building Desc.	Commercial
Building Style	
Stories	2.00
Exterior Walls	Pre-Cast Concrete
Exterior Walls 2	B. V. Solid
Interior Walls	
Interior Walls 2	
Interior Floors 1	Composite
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	
Occupancy	0

Building Use	Light Industrial
Building Condition	Average
Frame Type	Average
Fireplaces	0
Bsmt Gar	0
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	-50
Roof Style	HIP
Roof Cover	Asphalt



Town of Cheshire, CT

Property Listing Report

Map Block Lot **69-53**

Building # **1**

Unique Identifier

00712600

Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Fencing	Fencing	600	Average	1968
Paving	Paving	43000	Average	1968
Fencing	Fencing	1560	Average	1968
Fencing	Fencing	2400	Average	1968

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price

EXHIBIT 3



Centerline Communications LLC
 95 Ryan Drive, Suite #1
 Raynham, MA 02767



GPD Engineering and Architecture
 Professional Corporation

Chad Burton
 520 South Main Street, Suite 2531
 Akron, OH 44311
 (614) 859-1623
 cburton@gpdgroup.com

GPD# 2021703.34
 July 1, 2021

STRUCTURAL ANALYSIS REPORT

AT&T DESIGNATION: **USID #:** **TAG0053** **26014**
 Site FA #: **10136365** **10034996**
 Client #: **CT2036**
 Site Name: **CHESHIRE** **CHESHIRE SW**

ANALYSIS CRITERIA: **Codes:** **TIA-222-G & 2018 Connecticut State Building Code**
 135 mph (ultimate 3-second gust) w/ 0" ice
 105 mph (nominal 3-second gust) w/ 0" ice
 50 mph (3-second gust) w/ 0.75" ice

SITE DATA: **751 Higgins Road, Cheshire, CT 06410, New Haven County**
 Latitude 41° 29' 14.87" N, Longitude 72° 55' 46.59" W
 Market: NEW ENGLAND
 250.0' Radio Relay Towers Wireline Self Support

To whom it may concern,

GPD is pleased to submit this Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

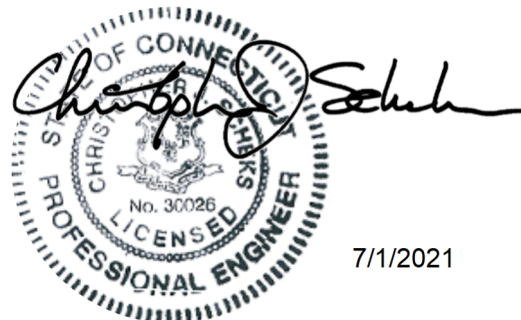
Analysis Results

Tower Stress Level with Proposed Equipment: 78.0% Pass
 Building Pedestal Ratio with Proposed Equipment: Adequate Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and Centerline Communications LLC. If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,

Christopher J. Scheks, P.E.
 Connecticut #: 0030026



7/1/2021

SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by AT&T Mobility and commissioned by Centerline Communications LLC.

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 135 mph converted to a nominal 3-second gust wind speed of 105 mph per Section 1609.3 and Appendix N as required for use in the TIA-222-G Standard per Exception #5 of Section 1609.1.1. Exposure Category B with a maximum topographic factor, Kzt, of 1.0 and Risk Category III were used in this analysis. Applicable Standard references and design criteria are listed in Appendices A & B.

Detailed foundation and geotechnical information for the building were not available or provided for this report. Therefore, the in place capacities could not be verified. However, based on the reserve capacity of the supporting pedestals, it is our opinion that the supporting building and foundations will be adequate for the proposed loading configuration.

Modifications designed by GPD (Project #: 2012856.05, dated 7/25/2012) have been installed and were considered in this analysis.

Mount modifications designed by All-Points (File #: CT141EB9400 Rev. 7, dated 2/10/2020) and the mount analysis by All-Points (File #: CT141EB9400, dated 2/10/2020) have been considered in this analysis.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Legs	76.0%	Pass
Leg Bolts	77.1%	Pass
Diagonals	66.2%	Pass
Horizontals	55.0%	Pass
Redundant Members	75.2%	Pass
Internal Bracing	74.0%	Pass
Member Bolts	78.0%	Pass
Anchor Rods	38.4%	Pass
Building Pedestals	24.1%	Pass
Foundation	Adequate	Pass

RECOMMENDATIONS

The tower and its foundation(s) have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

ANALYSIS METHOD

RISA-3D (Version 17.0.4), tnxTower (Version 8.0.9.0), and EnerCalc (Version 12.20.8.24), commercially available software programs, were used to create a three-dimensional model of the tower and calculate primary member stresses for various load cases. Selected output from the analysis is included in the report appendices. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
RF Data Sheet	RFDS Name #: CTL02036 v 1.00, dated 9/15/2020	Centerline
Construction Drawings	Hudson Design Group, Site #: CT2036 Rev A, dated 5/28/2021	Centerline
Tower Design	AT&T Co. Drawing #: NA4J03-902 Rev 3, dated 6/5/1967	AT&T
Building Drawings	AT&T Co. L-4 Junction Building, dated 12/1/1965	AT&T
Tower Mapping	GPD Project #: 2013723.01.TAG0053.03, 1/17/2014	AT&T
Ground Mapping	GPD Project #: 2013723.01.TAG0053.01, dated 6/14/2013	AT&T
Foundation Mapping	FDH Project #: 11-12049E-N1, dated 12/20/2011	AT&T
Geotechnical Report	Not Provided	N/A
Modification Drawings	GPD Project #: 2012856.05, dated 7/25/2012	AT&T
Post Modification Inspection	Centek Project #: 12033.OO40, dated 4/24/2013	AT&T
Previous Tower Analysis	GPD Project #: 2020701.98, dated 6/30/2020	GPD
Mount Analysis	Hudson Design Group, Site #: CT2036 (LTE 5C & 5G 2021 UPGRADE), dated 6/21/2021	Centerline

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. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The appurtenance configuration is as supplied, determined from available photos, and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. 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.
4. The soil parameters are as per data supplied or as assumed and stated in the calculations.
5. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
7. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
8. All prior structural modifications, if applicable, are assumed to be as per data supplied/available and to have been properly installed.
9. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
10. All existing and proposed loading has been taken from the available site photos as well as documents supplied to GPD at the time of generating this report. All such documents are listed in the Documents Provided Table and are assumed to be accurate. GPD is not responsible for loading scenarios outside those conveyed in the supplied documentation.

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 recent 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 Rigorous 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 of this report.

EXHIBIT 4

June 21, 2021



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

RE: Site Number: CT2036 (LTE 5C & 5G 2021 UPGRADE)
 FA Number: 10034996
 PACE Number: MRCTB048473
 PT Number: 2051A0WF8G
 Site Name: CHESHIRE SW
 Site Address: 751 Higgins Road
 Cheshire, CT 06410

To Whom It May Concern:

Hudson Design Group LLC (HDG) 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) 800-10966 Antennas (96.0"x20.0"x6.9" – Wt. = 115 lbs. /each)
- (2) 800-10965 Antennas (78.7"x20.0"x6.9" – Wt. = 109 lbs. /each)
- (1) HPA-65R-BUU-H8 Antennas (92.4"x14.8"x7.4" – Wt. = 68 lbs. /each)
- (2) HPA-65R-BUU-H6 Antennas (72.0"x14.8"x7.4" – Wt. = 51 lbs. /each)
- (3) B14 4478 RRH's (18.1"x13.4"x8.3" – Wt. = 60 lbs. /each)
- (3) RRUS-32 B30 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)
- (3) RRUS-32 B2 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)
- (3) Squid Surge Arrestor (24.0"x9.7" Ø – Wt. = 33 lbs.)
- **(1) DMP65R-BU8DA Antennas (96.0"x20.7"x7.7" – Wt. = 96 lbs. /each)**
- **(2) DMP65R-BU6DA Antennas (71.2"x20.7"x7.7" – Wt. = 80 lbs. /each)**
- **(3) B5/B12 4449 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each)**
- **(3) RRUS-32 B66A RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)**

**Proposed equipment shown in bold.*

No original structural design documents or fabrication drawings were available for the existing mounts. HDG conducted a ground audit of the existing AT&T antenna mounts on May 25, 2017. Previous Construction Drawings prepared by Dewberry Engineers dated June 11, 2020 and Mount Structural Analysis prepared by Dewberry Engineers dated April 28, 2020 were used to perform this analysis.

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 2015 with 2018 Connecticut State Building Code, and AT&T Mount Technical Directive – R13.
- HDG 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 N 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 50 mph and a max ice thickness of 1.0 in. An escalated ice thickness of 1.23 in was used for this analysis.
- HDG considers this site to be exposure category B; tower is located in an urban/suburban or wooded area with numerous closely spaced obstructions.
- HDG considers this site to be topographic category 1; tower is located on flat terrain or the bottom of a hill or ridge.
- HDG considers this site to have a spectral response acceleration parameter at short periods, S_s , of 0.186 and a spectral response acceleration parameter at a period of 1 second, S_1 , of 0.063.
- The existing mount is secured to the existing tower with U-Bolts, threaded rods and bent plates. The connection is considered OK by visual inspection.

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 Alpha Sector (LTE 5C) Mount Rating	25	LC7	82%	PASS
Existing Beta Sector (LTE 5C) Mount Rating	69	LC7	80%	PASS
Existing Gamma Sector (LTE 5C) Mount Rating	141	LC7	55%	PASS

This determination was based on the following limitations and assumptions:

1. HDG is not responsible for any modifications completed prior to and hereafter which HDG 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. HDG 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,
Hudson Design Group LLC



Michael Cabral
Vice President



Daniel P. Hamm, PE
Principal

EXHIBIT 5



Radio Frequency Emissions Analysis Report

June 28, 2021

Centerline Communications on behalf of AT&T

Site Name: Cheshire SW
Site Address: 751 Higgins Rd, Cheshire, CT 06410
FA#: 10034996
USID: 26014

Site Compliance Summary

Compliance Status:	Compliant
Carrier MPE%	0.06533700%
of FCC General Population Allowable Limit:	
Composite MPE%	0.11659700%
of FCC General Population Allowable Limit:	



June 28, 2021

AT&T Connecticut
Attn: David Ford, Site Acquisition Lead

Emissions Analysis for Site: **Cheshire SW**

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility to be located a tower near **751 Higgins Rd, Cheshire CT 06410** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (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.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz (LTE) band is $467 \mu\text{W}/\text{cm}^2$, for the 850 MHz (UMTS), 850 MHz (LTE), 850 MHz (5G) bands is $567 \mu\text{W}/\text{cm}^2$, for 1900 MHz (LTE), 2100 MHz (LTE), 2300 MHz (LTE) bands is $1000 \mu\text{W}/\text{cm}^2$.

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.



Calculations

Calculations were performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

RRH #	Frequency Band	Technology	Channel Count	Transmit Power per Channel (W)
1	700	LTE	4	40
1	850	LTE	2	40
1	850	5G	2	40
2	2100	LTE	4	40
3	700	LTE	4	40
4	2300	LTE	4	25
5	850	UMTS	1	40
6	1900	LTE	4	40
7	700	LTE	4	40
7	850	LTE	2	40
7	850	5G	2	40
8	2100	LTE	4	40
9	700	LTE	4	40
10	2300	LTE	4	25
11	850	UMTS	1	40
12	1900	LTE	4	40
13	700	LTE	4	40



RRH #	Frequency Band	Technology	Channel Count	Transmit Power per Channel (W)
13	850	LTE	2	40
13	850	5G	2	40
14	2100	LTE	4	40
15	700	LTE	4	40
16	2300	LTE	4	25
17	850	UMTS	1	40
18	1900	LTE	4	40

Table 1: Channel Data Table



The following antennas listed in Table 2 were used in the modeling for transmission in the 700 MHz (LTE), 850 MHz (UMTS), 850 MHz (LTE), 850 MHz (5G), 1900 MHz (LTE), 2100 MHz (LTE) and 2300 MHz (LTE) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

Sector	Antenna Number	Make / Model	Centerline (ft)
A	1	CCI DMP65R-BU8D	255
A	1	CCI DMP65R-BU8D	255
A	1	CCI DMP65R-BU8D	255
A	1	CCI DMP65R-BU8D	255
A	2	KATHREIN 80010966	255
A	2	KATHREIN 80010966	255
A	3	CCI HPA-65R-BUU-H8	255
A	3	CCI HPA-65R-BUU-H8	255
B	4	CCI DMP65R-BU6D	255
B	4	CCI DMP65R-BU6D	255
B	4	CCI DMP65R-BU6D	255
B	4	CCI DMP65R-BU6D	255
B	5	KATHREIN 80010965	255
B	5	KATHREIN 80010965	255
B	6	CCI HPA-65R-BUU-H6	255
B	6	CCI HPA-65R-BUU-H6	255
C	7	CCI DMP65R-BU6D	255
C	7	CCI DMP65R-BU6D	255
C	7	CCI DMP65R-BU6D	255
C	7	CCI DMP65R-BU6D	255
C	8	KATHREIN 80010965	255
C	8	KATHREIN 80010965	255
C	9	CCI HPA-65R-BUU-H6	255
C	9	CCI HPA-65R-BUU-H6	255

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



Results

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

ID	Make / Model	Frequency Band	Gain (dBd)	Centerline (ft)	Channel Count	TX Power (W)	ERP (W)	MPE %
AT&T 1	CCI DMP65R-BU8D	700	12.15	255.0	4	40	2624.944	0.004292000
AT&T 1	CCI DMP65R-BU8D	850	12.65	255.0	2	40	1472.618	0.001839000
AT&T 1	CCI DMP65R-BU8D	850	12.65	255.0	2	40	1472.618	0.001839000
AT&T 1	CCI DMP65R-BU8D	2100	15.55	255.0	4	40	5742.751	0.001965000
AT&T 2	KATHREIN 80010966	700	12.95	255.0	4	40	3155.876	0.004497000
AT&T 2	KATHREIN 80010966	2300	16.05	255.0	4	25	4027.170	0.001478000
AT&T 3	CCI HPA-65R-BUU-H8	850	14.35	255.0	1	40	1089.081	0.001057000
AT&T 3	CCI HPA-65R-BUU-H8	1900	15.05	255.0	4	40	5118.232	0.002303000
AT&T 4	CCI DMP65R-BU6D	700	11.75	255.0	4	40	2393.977	0.005513000
AT&T 4	CCI DMP65R-BU6D	850	11.45	255.0	2	40	1117.095	0.002338000
AT&T 4	CCI DMP65R-BU6D	850	11.45	255.0	2	40	1117.095	0.002338000
AT&T 4	CCI DMP65R-BU6D	2100	15.35	255.0	4	40	5484.285	0.002638000
AT&T 5	KATHREIN 80010965	700	12.05	255.0	4	40	2565.193	0.005344000
AT&T 5	KATHREIN 80010965	2300	15.75	255.0	4	25	3758.374	0.001449000
AT&T 6	CCI HPA-65R-BUU-H6	850	12.8	255.0	1	40	762.1843	0.001070000
AT&T 6	CCI HPA-65R-BUU-H6	1900	14.77	255.0	4	40	4798.660	0.002627000
AT&T 7	CCI DMP65R-BU6D	700	11.75	255.0	4	40	2393.977	0.005246000
AT&T 7	CCI DMP65R-BU6D	850	11.45	255.0	2	40	1117.095	0.002279000
AT&T 7	CCI DMP65R-BU6D	850	11.45	255.0	2	40	1117.095	0.002279000
AT&T 7	CCI DMP65R-BU6D	2100	15.35	255.0	4	40	5484.285	0.002643000
AT&T 8	KATHREIN 80010965	700	12.15	255.0	4	40	2624.944	0.005304000
AT&T 8	KATHREIN 80010965	2300	15.75	255.0	4	25	3758.374	0.001383000
AT&T 9	CCI HPA-65R-BUU-H6	850	12.8	255.0	1	40	762.1843	0.001050000
AT&T 9	CCI HPA-65R-BUU-H6	1900	14.77	255.0	4	40	4798.660	0.002566000
AT&T MPE%								0.06533700 %

Table 3: AT&T Antenna Inventory & Power Level



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 4* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

Frequency Band	Centerline Technology (ft.)	# of Channels	ERP W (Per Channel)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	MPE %	
700	LTE	255.0	4	656.2359093	0.0200310	467	0.00429200
850	LTE	255.0	2	736.3088006	0.0104190	567	0.00183900
850	5G	255.0	2	736.3088006	0.0104190	567	0.00183900
2100	LTE	255.0	4	1435.687739	0.0196530	1000	0.00196500
700	LTE	255.0	4	788.9690944	0.0209880	467	0.00449700
2300	LTE	255.0	4	1006.792586	0.0147750	1000	0.00147800
850	UMTS	255.0	1	1089.080523	0.0059870	567	0.00105700
1900	LTE	255.0	4	1279.558044	0.0230320	1000	0.00230300
700	LTE	255.0	4	598.4942624	0.0257270	467	0.00551300
850	LTE	255.0	2	558.5473444	0.0132470	567	0.00233800
850	5G	255.0	2	558.5473444	0.0132470	567	0.00233800
2100	LTE	255.0	4	1371.071146	0.0263800	1000	0.00263800
700	LTE	255.0	4	641.2981563	0.0249360	467	0.00534400
2300	LTE	255.0	4	939.5935107	0.0144890	1000	0.00144900
850	UMTS	255.0	1	762.1842872	0.0060640	567	0.00107000
1900	LTE	255.0	4	1199.665008	0.0262720	1000	0.00262700
700	LTE	255.0	4	598.4942624	0.0244830	467	0.00524600
850	LTE	255.0	2	558.5473444	0.0129150	567	0.00227900
850	5G	255.0	2	558.5473444	0.0129150	567	0.00227900
2100	LTE	255.0	4	1371.071146	0.0264260	1000	0.00264300
700	LTE	255.0	4	656.2359093	0.0247530	467	0.00530400
2300	LTE	255.0	4	939.5935107	0.0138290	1000	0.00138300
850	UMTS	255.0	1	762.1842872	0.0059500	567	0.00105000
1900	LTE	255.0	4	1199.665008	0.0256600	1000	0.00256600
AT&T MPE%						0.06533700 %	

Table 4: AT&T Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Carrier	Predicted MPE %
AT&T	0.06533700%
Unknown	0.05126000%
Composite	0.11659700%

Table 5: Total Predicted MPE(%) by Carrier

Compliance Status:

The anticipated composite MPE value for this site assuming all carriers present is **0.11659700%** of the allowable FCC established general population limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Erin Kavanaugh
RF Compliance Consultant
Centerline Communications, LLC
750 West Center St. Suite 301
West Bridgewater, MA 02379

EXHIBIT 6

TOWN OF CHESHIRE

Planning & Zoning Commission
84 South Main Street
Cheshire, Connecticut 06410
203-271-6670 • Fax 203-271-6688



June 3, 2003

HAND DELIVERED

RECEIVED BY: [Signature]

DATE: 6-3-03

AT&T
Anthony J. Fazzino, Esq.
One Town Center
Cheshire, CT 06410

RE: Special Permit Application
AT & T
751 Higgins Road
Building addition for cooling facilities

P.H. 04/14/03
P.H. 05/12/03
MAD 07/16/03

Dear Attorney Fazzino:

At the regular meeting of the Planning and Zoning Commission held on May 27, 2003, the following motion was approved as amended:

MOTION: That the Zoning Committee recommends that the Planning and Zoning Commission approve the special permit application of AT&T, for a building addition for cooling facilities for property located at 751 Higgins Road, in an R-40 zone, as shown on the current Assessor's Map No. 69, Lot No. 53, and shown on the following plans entitled:

AT&T Cheshire-Chiller Replacement, Higgins Road, Cheshire, CT prepared by Milone & MacBroom sheets 1 & 2 March 2003 and Chiller Replacement Sections; and EYP Mission Critical Facilities sheets CO1, CO2, AO1, AO2, AO3, and POO1 March 12, 2003

With the following stipulations:

1. The applicant shall comply with comments in a memo from the Police Department dated April 11, 2003 and attached hereto.
2. Approval for the sanitary sewer is required from the Water Pollution Control Authority.
3. The proposed building must be incorporated into the facilities alarm system.

4. An approved emergency key box must be installed at the new building
5. The applicant shall be responsible for maintenance and replacement of new plantings shown on the plans.
6. Water treatment chemicals must be shipped in compliance with Department of Transportation regulations.
7. The delivery area must be secured such that any storm drains in the vicinity of the unloading operations are protected with a drain dike.
8. A trained representative of AT&T must be present to receive all water treatment chemicals, and must take the following actions:
 - Review the label information to ensure that it is the correct material
 - Move the drum using a hand truck to the drum storage area
 - Place chemicals on a secondary containment pallet in the drum storage area
9. Empty drums used for water treatment chemicals must be removed from the site.

Acoustic

10. The sound emitted from this addition and existing sources shall be kept to an absolute minimum. The sound barrier wall enclosure and band of exterior rated sound absorption panels shall be installed as described in the report conducted by Adelaide Associates LLC entitled "Existing Sound Level Measurements, Evaluation of Existing Generator Sound, Sound Level Prediction of Proposed Cooling Tower" dated August 7, 2002 final revision November 4, 2002. Certification that the panels have been installed properly and to full effectiveness must be submitted to the Planning Department prior to operation of the cooling tower.
11. Periodic acoustic noise readings shall be taken by a certified sound Engineer. At no time shall the sound recorded of the operation of the cooling tower under conditions of minimal background noise be greater than 37 db at any of the property boundaries. These readings shall be taken every six months or upon receipt of a complaint by the Planning Office. In the event of a complaint the applicant shall provide the Planning and Zoning Office with a certified acoustics reading within 48 hours. Failure to meet these noise requirements will result in zoning enforcement action up to and including a Cease and Desist Order for operation of the chillers.

AT&T
Anthony J. Fazzino, Esq.
One Town Center
Page 3

Moved by Mr. Adinolfi; seconded by Ms. Hilzinger. Vote on the amended motion:
In favor: Levy, Kramer, Marinaro, Cobern, Hilzinger, Todisco, Adinolfi. Opposed:
Ranando and Dawson.

Very truly yours,

Beverly G. Hilzinger

Beverly G. Hilzinger, Secretary
Cheshire Planning and Zoning Commission

BGH:jp

ENCLOSURES

EXHIBIT 7

UPS Campuhsip: View/Print Label

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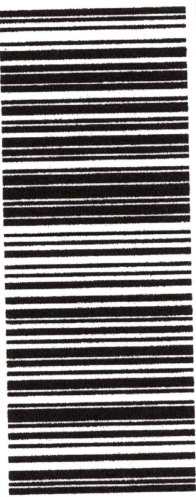

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ALLISON HEBEL 2155687035 CENTERLINE COMMUNICATIONS 5952 SELIGER DRIVE NORFOLK VA 23502-5254	1 LBS DWT: 12.9,1	1 OF 1
SHIP TO: LAUREN O'SULLIVAN AT&T 185 BODWELL STREET AVON MA 02322-1114		
		MA 024 9-01
UPS GROUND		
TRACKING #: 1Z 9Y4 503 03 2220 2094		
		
BILLING: P/P		
CS 22.0.13. WINTNVS0 25.0A 06/2021*		
		

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2155887035
CENTERLINE COMMUNICATIONS
5952 SELIGER DRIVE
NORFOLK VA 23502-5254

1 LBS **1 OF 1**
DWT: 12.9,1

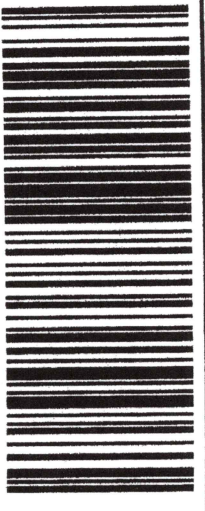
SHIP TO:
MELANIE A. BACHMAN
18608272935
CONNECTICUT SITING COUNCIL
EXECUTIVE DIRECTOR
TEN FRANKLIN SQUARE
NEW BRITAIN CT 06051-2655



CT 067 9-06

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BILLING: P/P

CS 22.0.13. WINTNVS0 25.0A.09/2021*



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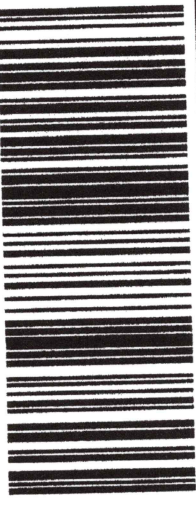

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SHIP TO: WILLIAM VOELKER - PLANNING TOWN OF CHESHIRE 84 SOUTH MAIN STREET CHESHIRE CT 06410-3108		
	CT 067 9-04 	
UPS GROUND TRACKING #: 1Z 9Y4 503 03 3590 7871		
		
BILLING: P/P		
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9/23/2021

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1 OF 1
DWT: 12.9,1

ALLISON HEBEL
2155887035
CENTERLINE COMMUNICATIONS
5952 SELLGER DRIVE
NORFOLK VA 23502-5254

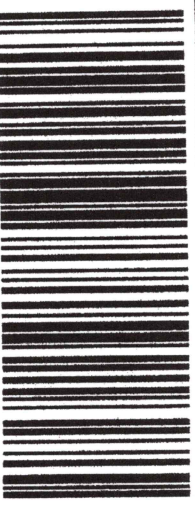
SHIP TO:
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TOWN OF CHESHIRE
84 SOUTH MAIN STREET
CHESHIRE CT 06410-3108



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