April 25, 2023

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

Re: Notice of Exempt Modification New Cingular Wireless PCS LLC ("AT&T") Site CT2282
95 Country Club Road, New Canaan, CT 06840 (the "Property")
Latitude: 41-17-35.13 N Longitude: 72-34-42.23 W

Dear Ms. Bachman:

AT&T currently maintains (3) antennas at the 89' level on the existing 109' flagpole tower ("Tower") at 95 Country Club Road, New Canaan, CT. The Tower is owned by SBA Towers and the property is owned by Country Club of N C. AT&T intends to modify its facility by replacing the (6) existing tower mounted amplifiers ('TMAs') with (6) TMABPD7823VG12A TMAs within the Tower. AT&T also intends on replacing (9) remote radio units ("RRUs") with (3) B5/B12 4449 & (3) B2/B66A 8843 RRUs & replace (12) surge arrestors w/ (36) TSXDC 4310FM surge arrestors within the existing equipment shelter, at ground level.

This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

The Tower received CT Siting Council approval in Docket 244 on February 18, 2004. There were no conditions that could be feasibility be violated by this modification. The AT&T modification complies with the above-mentioned approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies ("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 to R.C.S.A §16-50j-73, a copy of this letter is being sent the Hon. Kevin Moynihan, First Selectman, Town of New Canaan, Ms. Sarah Carey, Assistant Planner/ Zoning Inspector, Town of New Canaan, Country Club of N C, the property owner and SBA Towers, the tower owner.

The planned modification of the facility falls 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 modification 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 Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and foundation can support the proposed loading.

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

Sincerely,

Hollis M. Redding

Hollis M. Redding
SAI Communications, LLC
12 Industrial Way
Salem, NH 03079
Mobile: 860-834-6964
hredding@saigrp.com

Enclosures

Cc:
Hon. Kevin Moynihan, First Selectman, Town of New Canaan
Ms. Sarah Carey, Assistant Planner/Zoning Inspector, Town of New Canaan
Country Club of N C, the property owner
SBA Towers, the tower owner

SAI Group
12 Industrial Way
Salem, NH 03079
(603) 421-0470
www.saigrp.com

Radio Frequency Exposure Theoretical Study

Prepared For:

AT&T Mobility

Site Name:	New Canaan CT Country Club Rd
FA#:	10091783
Site ID:	CTL02282
Address:	95R Country Club Road, New Canaan, CT 06840

Prepared by: **SAI Group**
12 Industrial Way
Salem, NH 03079
(603) 421-0470

Date of Report: April 18, 2023

Statement of Compliance

AT&T's proposed antenna installation along with other existing antennas is calculated to be within *0.26%* of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

Table of Contents

1 General Summary

SAI Group was contracted by AT&T Mobility to conduct a Radio Frequency (RF) Analysis for a wireless facility located at 95R Country Club Road, New Canaan, CT to determine whether the radio facility is in compliance with Federal Communications Commission (FCC) regulations and standards regarding RF exposure.

RF exposure is calculated in accordance with FCC's suggested prediction methods.

2 Site Compliance Summary

Compliance Summary (General Public Limit)	
Site Compliance	Yes
Maximum Calculated %MPE at 0-6' Ground Level (Cumulative)	0.26% at about 10ft North-West from the tower.

3 RF Design Specifications

Table below shows the technical data used for the calculation of cumulative %MPE results.

Ant ID	Operator	Antenna Make	Antenna Model	Type	TX Freq (MHz)	Az (Deg)	Ant Gain (dBd)	Total ERP (Watts)	Z Rad Center (ft)
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	850	30	12.97	1000	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	700	30	12.49	1419	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	30	14.73	1189	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	30	14.73	1189	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	30	15.1	2589	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	30	15.1	2589	89.00
1	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	30	14.73	2377	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	850	150	12.97	1000	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	700	150	12.39	1387	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	150	14.77	1200	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	150	14.77	1200	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	150	15.1	2589	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	150	15.1	2589	89.00
2	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	150	14.73	2377	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	850	270	12.97	1000	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	700	270	12.49	1419	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	270	14.77	1200	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	270	14.77	1200	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	270	15.1	2589	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	2100	270	15.1	2589	89.00
3	AT&T	CCI	HPA-65R-BUU-H6	Panel	1900	270	14.73	2377	89.00
4	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	60	15.95	6297	106.00
4	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	60	15.95	6297	106.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	700	60	11.9	2478	99.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	60	11.48	1687	99.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	60	11.48	1687	99.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	2100	60	15.87	6182	99.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	60	15.25	2680	99.00
5	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	60	15.25	2680	99.00
6	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	180	15.95	6297	106.00
6	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	180	15.95	6297	106.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	700	180	11.9	2478	99.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	180	11.48	1687	99.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	180	11.48	1687	99.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	2100	180	15.87	6182	99.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	180	15.25	2680	99.00
7	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	180	15.25	2680	99.00

8	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	300	15.95	6297	106.00
8	T-Mobile	COMMSCOPE	VV-65A-R1B	Panel	2500	300	15.95	6297	106.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	700	300	11.9	2478	99.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	300	11.48	1687	99.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	600	300	11.48	1687	99.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	2100	300	15.87	6182	99.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	300	15.25	2680	99.00
9	T-Mobile	COMMSCOPE	FVV-65B-R3	Panel	1900	300	15.25	2680	99.00

NOTE: The Z value indicates the distance of radiation center of the antenna height above the ground site level unless otherwise indicated. Effective Radiated Power (ERP) is provided by the operator or calculated based on SAI Group experience. SAI Group has assumed transmission parameters for “Unknown” RF emitters based on either similar installations found at other radio communications sites or from the latest data available for the site. “Generic” antenna models have been used where existing antenna part numbers or radiation patterns are not available. The frequencies presented in this table may have been assumed in order to represent the approximate band of operation and to support a worst-case calculation of power density

4 Conclusion

I certify to the best of my knowledge that the statements contained in this report are true and accurate. The theoretical computations contained are based on FCC recommended methods, with industry standard assumptions & formulas, and complies with FCC mandated Maximum Permissible RF Exposure requirements.

A comprehensive field survey was not performed prior to the generation of this report. If questions arise regarding the calculations herein, SAI Group recommends that a comprehensive field survey be performed to resolve any disputes.

Sanket Joshi
RF Engineer
SAI Group

April 18, 2023
Date

Matthew Smelcer
RF Engineering Manager

April 18, 2023
Date

Appendix A – FCC Rules and Regulations

In 1996, the Federal Communication Commission (FCC) adopted procedures and guidelines for evaluating of the effects of RF exposure. This guideline from the FCC Office of Engineering and Technology is Bulletin 65 ("OET Bulletin 65"), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following Tables and diagram:

Table 1. MPE Limits for General Population/ Uncontrolled Exposure

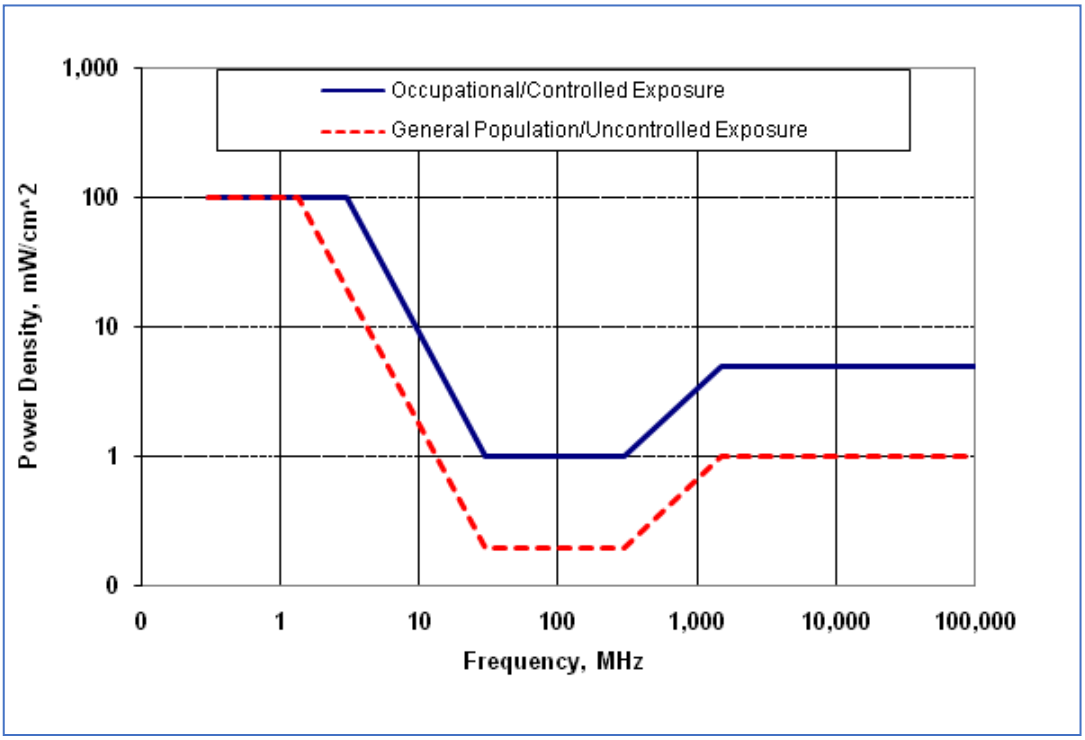
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time for $\|E\|^2$, $\|H\|^2$, or S (Minutes)
0.3 – 1.34	614	1.63	(100)*	30
1.34 -30	824/f	2.19/f	$(180/f^2)$*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	--	--	f/1500	30
1500– 100,000	--	--	1.0	30
f = frequency in MHz		* = Plane wave equivalent power density		

General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can't exercise control over their exposure. A site is evaluated with General Public limits if there is no access controls or no RF warning signage present.

Table 2. MPE Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time for $\|E\|^2$, $\|H\|^2$, or S (Minutes)
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1842/f	4.89/f	$(900/f^2)$*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	--	--	f/300	6
1500– 100,000	--	--	5.0	6
f = frequency in MHz		* = Plane wave equivalent power density		

Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where such occupational/controlled limits apply provided he or she is made aware of the potential for exposure. Typical criteria to remediate controlled environment are restricted access to the areas where antennas are located along with appropriate RF warning signage. A site with Controlled environment is evaluated with Occupational limits.



Maximum Permissible Exposures. Occupational/Controlled and General Population/Uncontrolled MPE's are functions of frequency.

Appendix B – Calculations Methodology and Assumptions

SAI Group has performed theoretical analysis using Waterford Consultants' RoofMaster™ 2020 Version 30.5.26.2022 which uses a cylindrical model for very conservative power density calculations within the near field of the antenna where the antenna pattern has not truly formed yet. The Cylindrical Model is used to determine the spatially averaged power density in the near field directly in front of an antenna. In order to implement this model in all directions, the calculations utilize the antenna manufacturer horizontal pattern data. Additionally, the model also incorporates factors that reduce the power density by inverse square of horizontal and vertical distances beyond the near field region.

RoofMaster™ uses far field model to calculate the spatial peak power density. The RoofMaster™ implementation of this model incorporated manufacturer's horizontal and vertical pattern data to determine the power density in all directions.

The calculations are based on worst-case assumptions that, all antennas are always operating at full power.

The site has been modeled with these assumptions to show the maximum RF energy density. Areas modeled with exposure greater than 100% of the General Public MPE level may not actually occur, but are shown as a prediction that could be realized.

Appendix C – Informative References

The following references can be followed for further information about RF Health and Safety.

FCC Radio Frequency Safety
http://www.fcc.gov/encyclopedia/radio-frequency-safety

FCC OET Bulletin 56
https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf

FCC OET Bulletin 65
https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf

National Council on Radiation Protection and Measurements (NCRP)
http://www.ncrponline.org

American National Standards Institute (ANSI)
http://www.ansi.org

Environmental Protection Agency (EPA)
https://www3.epa.gov/radtown/wireless-technology.html

National Institutes of Health (NIH)
http://www.niehs.nih.gov/health/topics/agents/emf/

Occupational Safety and Health Agency (OSHA)
http://www.osha.gov/SLTC/radiofrequencyradiation/

International Commission on Non-Ionizing Radiation Protection (ICNIRP)
http://www.icnirp.org/

PROJECT INFORMATION

SCOPE OF WORK:	ITEMS TO BE MOUNTED ON THE EXISTING FLAG POLE: • NEW AT&T TMAS: TMAS (TMABPD7823VG12A) (TYP. OF OF 2 PER SECTOR, TOTAL OF 6) ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION: • NEW AT&T RRUS: B5/B12 4449 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T RRUS: B2/B66A 8843 (PCS/AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T SURGE: TSXDC-4310FM (TOTAL OF 36). • ADD 6648 + XCEDE CABLE • ADD (1) RECTIFIERS ITEMS TO BE REMOVED: • EXISTING AT&T RRUS: RRU-11 B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T RRUS: RRU-12 B2 (700) (TOTAL OF 3). • EXISTING AT&T RRUS: RRU-A2 B25 (TOTAL OF 3). • EXISTING AT&T TMAS: TMAS (TYP. OF OF 2 PER SECTOR, TOTAL OF 6) • EXISTING AT&T SURGE: APTDC-BDFDM-DBW (TOTAL OF 12) ITEMS TO REMAIN: • (3) ANTENNAS, (1) SURGE ARRESTOR, (12) 7/8" COAX CABLES.
SITE ADDRESS:	95R COUNTRY CLUB ROAD NEW CANAAN, CT 06840
LATITUDE:	41.172861° N, 41° 10' 22.29" N
LONGITUDE:	73.496333° W, 73° 29' 46.79" W
TYPE OF SITE:	FLAG POLE / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	109'-0"±
RAD CENTER:	89'-0"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

SITE NUMBER: CTL02282

SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

FA CODE: 10091783

PACE ID: MRCTB062837, MRCTB062814, MRCTB062777

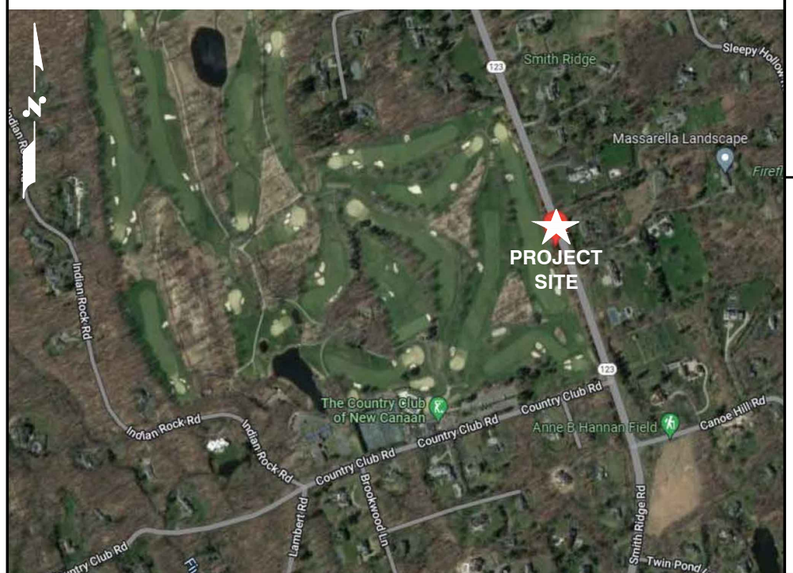
PROJECT: 5G NR 1DR-1_5G NR 1SR UPGRADE

DRAWING INDEX

VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING NE ON ENTERPRISE DRIVE TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO WEST ST. MERGE ONTO I-91 S VIA RAMP ON THE LEDT TOWARD NEW HAVEN. MERGE ONTO CT-A5 S VIA EXIT 17. TAKE THE CT123 / NEW CANAAN AVE EXIT 38. TURN SLIGHT LEFT ONTO COUNTRY CLUB RD. 95 COUNTRY RD IS ON THE 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.
5. 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.

72 HOURS

CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455

OR CALL 811

UNDERGROUND SERVICE ALERT

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET

5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	T-1	2

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) 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.

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 – SAI
   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 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-G, 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.

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

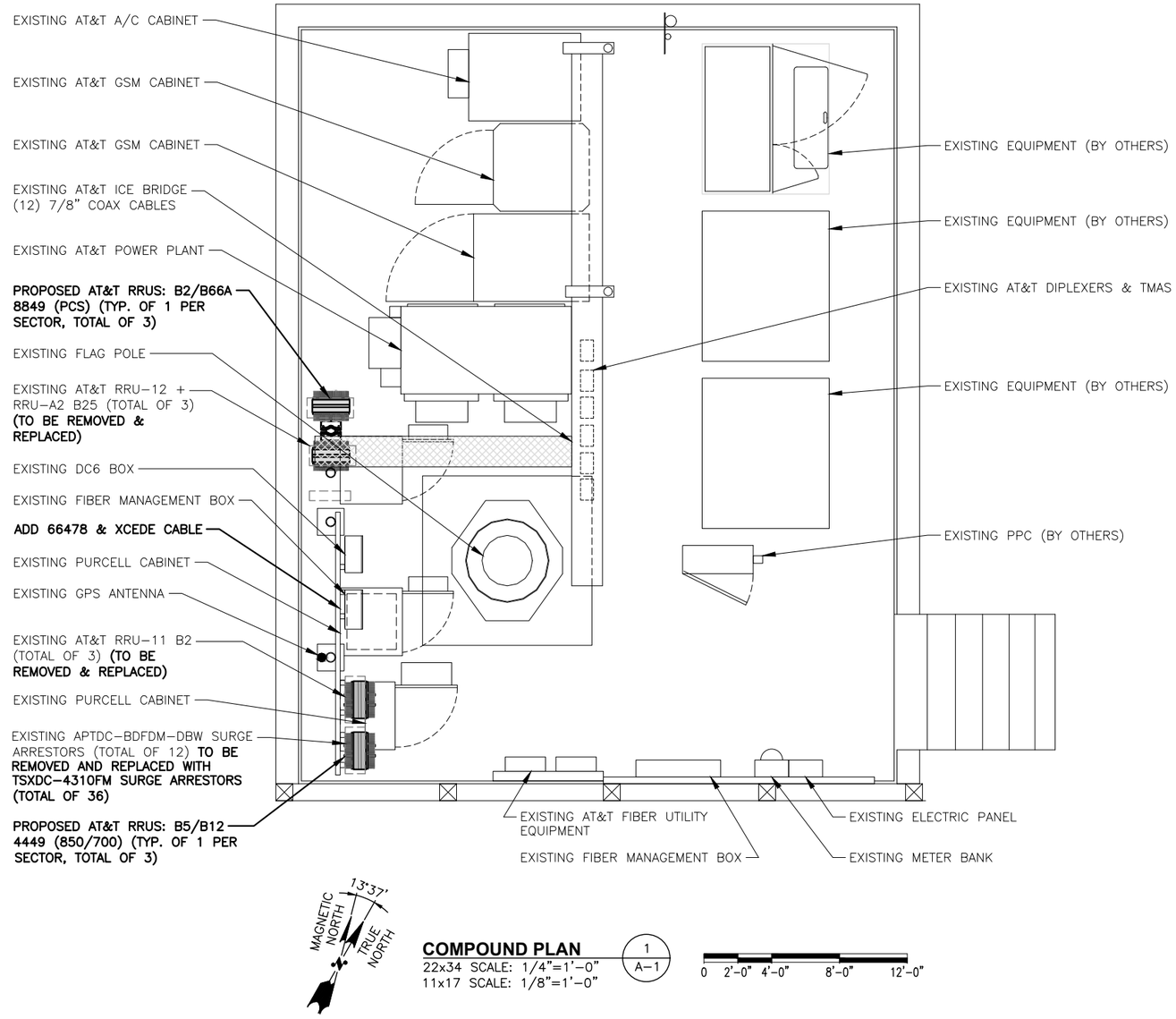
STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES

~~5G NR~~ 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	GN-1	2



COMPOUND PLAN (1 / A-1)
22x34 SCALE: 1/4"=1'-0"
11x17 SCALE: 1/8"=1'-0"

0 2'-0" 4'-0" 8'-0" 12'-0"

NOTE:

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

NOTE:

REFER TO STRUCTURAL ANALYSIS
BY: TES.
DATED: JANUARY 27, 2023,
FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

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.

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

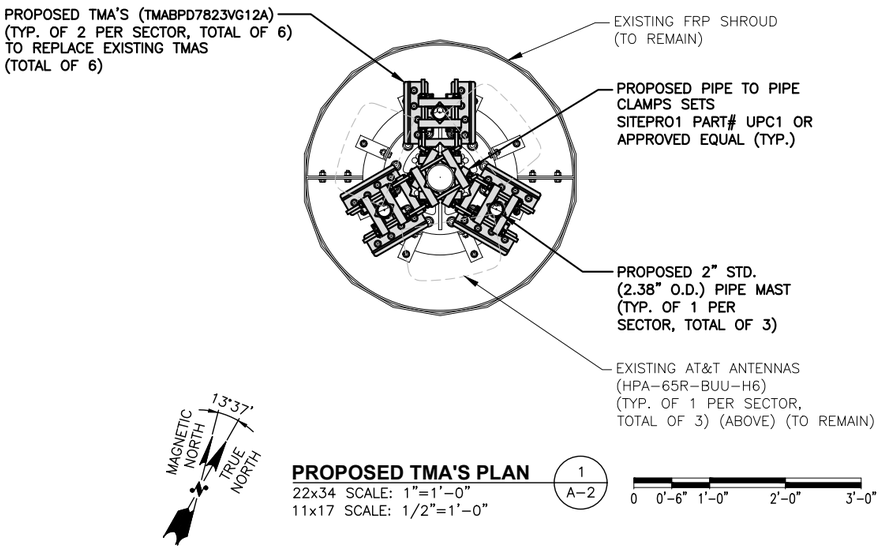
STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

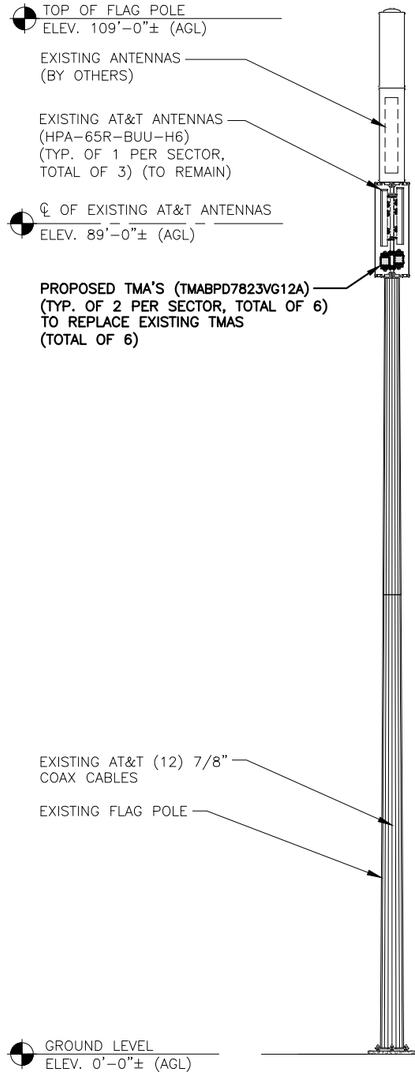
COMPOUND PLAN

~~4G~~ 5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	A-1	2



PROPOSED TMA'S PLAN (1 / A-2)
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"
0 0'-6" 1'-0" 2'-0" 3'-0"



ELEVATION (2 / A-2)
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"
0 4'-0" 8'-0" 16'-0" 24'-0"

NOTE:

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

NOTE:

REFER TO STRUCTURAL ANALYSIS BY: TES.
DATED: JANUARY 27, 2023,
FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

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.

NOTE:

GROUND EQUIPMENT NOT SHOWN FOR CLARITY

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

TMA'S PLAN & ELEVATION

~~4G LTE~~ 5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	A-2	2

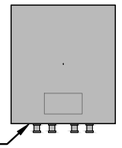
ANTENNA SCHEDULE

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ℄ HEIGHT	ANTENNA TIP HEIGHT	AZIMUT H	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	EXISTING	LTE 700(BC) /PCS/AWS/850	HPA-65R-BUU-H6	72x14.8x9	89'-0"±	–	**30°**	**(P)(2) TMABPD7823VG12A**	**(P)(1)(G) 4449 B5/B12 (850/700)** **(P)(1)(G) 8843 B2/B66A (PCS/AWS)**	**17.9"X13.2"X10.4"** **14.9"X13.2"X10.9"**	(4) 7/8"Ø COAX	1
A2	–	–	–	–	–	–	–	–	–	–	–	
A3	–	–	–	–	–	–	–	–	–	–	–	
A4	–	–	–	–	–	–	–	–	–	–	–	
B1	EXISTING	LTE 700(BC) /PCS/AWS/850	HPA-65R-BUU-H6	72x14.8x9	89'-0"±	–	**150°**	**(P)(2) TMABPD7823VG12A**	**(P)(1)(G) 4449 B5/B12 (850/700)** **(P)(1)(G) 8843 B2/B66A (PCS/AWS)**	**17.9"X13.2"X10.4"** **14.9"X13.2"X10.9"**	(4) 7/8"Ø COAX	1
B2	–	–	–	–	–	–	–	–	–	–	–	
B3	–	–	–	–	–	–	–	–	–	–	–	
B4	–	–	–	–	–	–	–	–	–	–	–	
C1	EXISTING	LTE 700(BC) /PCS/AWS/850	HPA-65R-BUU-H6	72x14.8x9	89'-0"±	–	**270°**	**(P)(2) TMABPD7823VG12A**	**(P)(1)(G) 4449 B5/B12 (850/700)** **(P)(1)(G) 8843 B2/B66A (PCS/AWS)**	**17.9"X13.2"X10.4"** **14.9"X13.2"X10.9"**	(4) 7/8"Ø COAX	1
C2	–	–	–	–	–	–	–	–	–	–	–	
C3	–	–	–	–	–	–	–	–	–	–	–	
C4	–	–	–	–	–	–	–	–	–	–	–	

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

RRU CHART		
QUANTITY	**MODEL**	**SIZE (L x W x D)**
(P)(3)	**4449 B5/B12 (850/700)**	**17.9"x13.2"x10.4"**
(P)(3)	**8843 B2/B66A (PCS/AWS)**	**14.9"x13.2"x10.9"**
NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS		

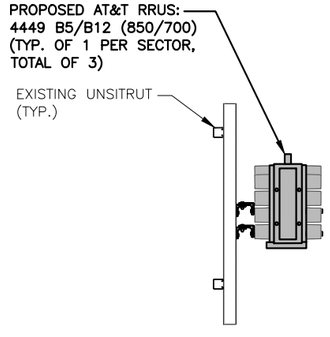
NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER



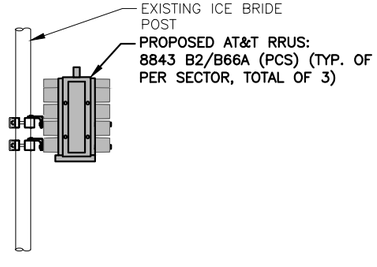
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

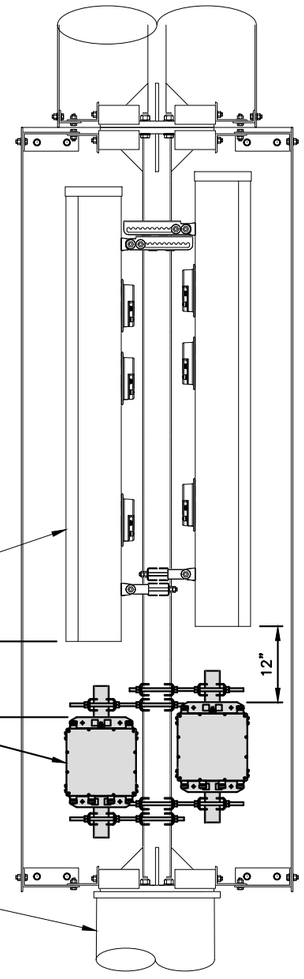
PROPOSED RRUS DETAIL (2 / A-3)
SCALE: N.T.S



PROPOSED RRHS MOUNTING DETAIL (3 / A-3)
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"



0 0'-6" 1'-0" 2'-0" 3'-0"



PROPOSED TMAS MOUNTING DETAIL (4 / A-3)
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

0 0'-6" 1'-0" 2'-0" 3'-0"

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

NOTE:
REFER TO STRUCTURAL ANALYSIS BY: TES.
DATED: JANUARY 27, 2023,
FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

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.

℄ OF EXISTING AT&T ANTENNAS
ELEV. 89'-0"± (AGL)

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

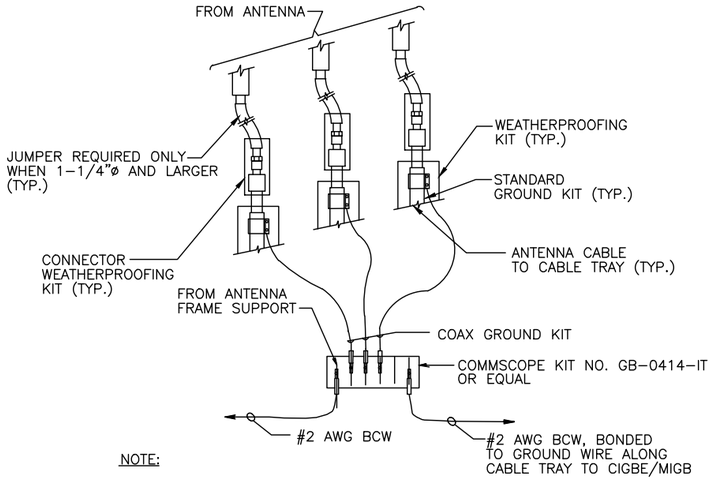
STATE OF CONNECTICUT · DANIEL P. HAMM · No. 24178 · LICENSED PROFESSIONAL ENGINEER

AT&T

DETAILS

4G 5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	A-3	2



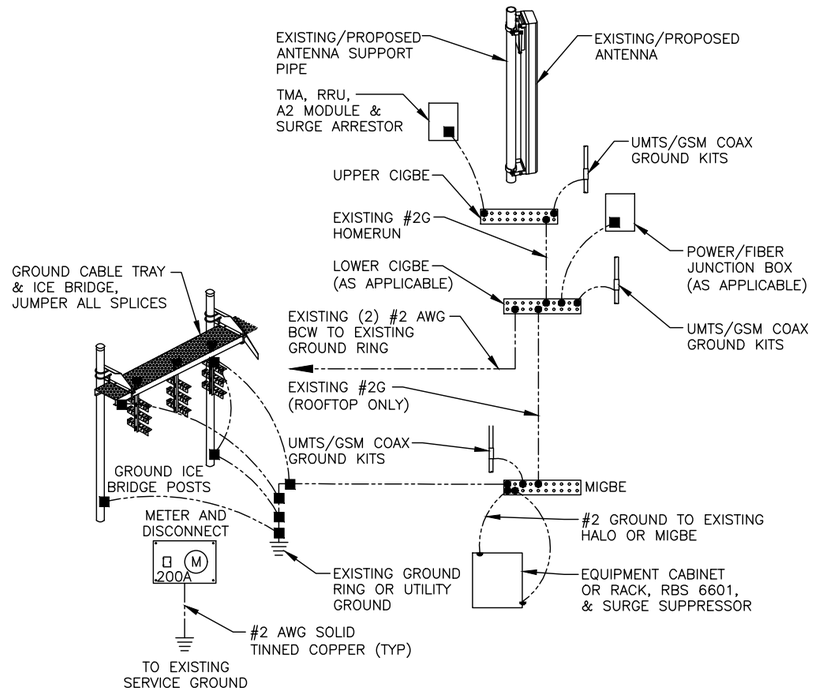
NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

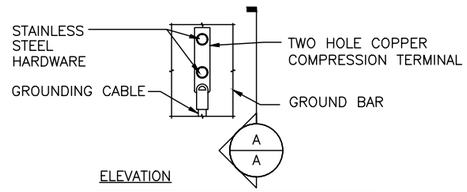
1 / G-1



GROUNDING RISER DIAGRAM

SCALE: N.T.S

2 / 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

SCALE: N.T.S

3 / G-1

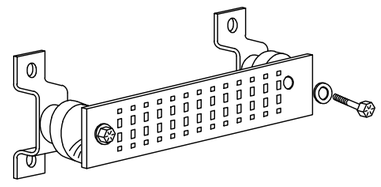
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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)

SCALE: N.T.S

4 / G-1

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DC	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

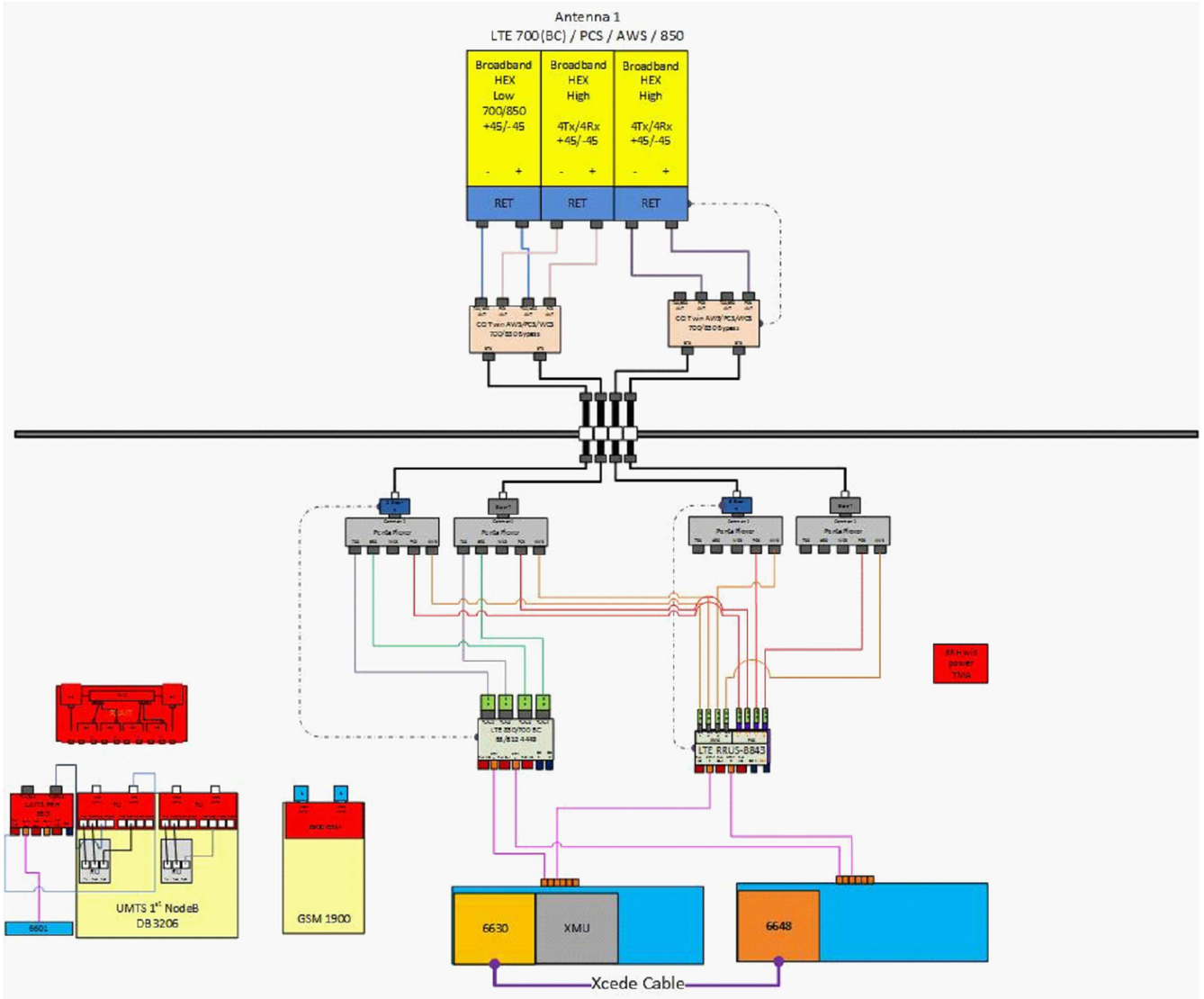
GROUNDING DETAILS

~~4G~~ 5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	G-1	2

NOTE:

REV: 5
DATED: 02/23/2023
RFDS ID: 5108849



RF PLUMBING DIAGRAM (1 / RF-1)
SCALE: N.T.S

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.
3. RFDS USED FOR REFERENCE.

NOTE:

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

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

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CTL02282
SITE NAME: NEW CANAAN CT COUNTRY CLUB RD

95R COUNTRY CLUB ROAD
NEW CANAAN, CT 06840
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	04/21/23	ISSUED FOR CONSTRUCTION	YH	HC	DPH
1	03/06/23	ISSUED FOR CONSTRUCTION	DO	HC	DPH
0	02/17/23	ISSUED FOR REVIEW	MR	HC	DPH
A	11/07/22	ISSUED FOR REVIEW	MR	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: MR

AT&T

RF PLUMBING DIAGRAM
5G NR 1DR-1_5G NR 1SR UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CTL02282	RF-1	2

Tower Engineering Solutions
Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 109 ft EEI Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT40876-T

Customer Site Name: CT389/New Canaan C C

Carrier Name: AT&T (App#: 209925, V#1)

Carrier Site ID / Name: CT2282 / NEW CANAAN COUNTRY CLUB

Site Location: 95 Country Club Road

New Canaan, Connecticut

Fairfield County

Latitude: 41.172860

Longitude: -73.496333

Analysis Result:

Max Structural Usage: 80.8% [Pass]

Max Foundation Usage: 30% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Nedim Maric

Tower Engineering Solutions
Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 109 ft EEI Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT40876-T

Customer Site Name: CT389/New Canaan C C

Carrier Name: AT&T (App#: 209925, V#1)

Carrier Site ID / Name: CT2282 / NEW CANAAN COUNTRY CLUB

Site Location: 95 Country Club Road

New Canaan, Connecticut

Fairfield County

Latitude: 41.172860

Longitude: -73.496333

Analysis Result:

Max Structural Usage: 80.8% [Pass]

Max Foundation Usage: 30% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Nedim Maric

Introduction

The purpose of this report is to summarize the analysis results on the 109 ft EEI Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	EEI Job #15040, Drawing #GS56879, Date 09/06/07
Foundation Drawing	EEI Job #15040, Drawing #1504D-110.0, Date 09/06/07
Geotechnical Report	Jaworski Geotech, Inc. Project #04193G
Modification Drawings	Allpro Consulting Job #11-5047, Date 09/15/11 TES, Job# 33829, Dated 08/07/17
Mount Analysis	N/A

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H**.** In accordance with this standard, the structure was analyzed using **TESPoles,** a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	116.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.251, S_1 = 0.058

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	106.0	3	Commscope ATSBT-TOP-FM	Concealed in Ø30" Canisters	(30) 7/8"	T-Mobile
2		3	Commscope VV-65A-R1 - Panel			
3	99.0	3	Commscope FVV-65B-R3 - Panel			
4		3	Commscope ATSBT-TOP-FM			
-	89.0	3	CCI - HPA-65R-BUU-H6 - Panel	Concealed in Ø43" Canisters	(12) 7/8"	AT&T
-		6	CCI - DTMABP7819VG12A - TMA			

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
5	89.0	3	Cci HPA-65R-BUU-H6 - Panel	Concealed in Ø43" Canisters	(12) 7/8"	AT&T
6		6	Cci TMABPD7823VG12A - TMA			

All transmission lines are considered running inside of the pole shafts.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate	Flange
Max. Usage:	**72.1%**	**79.3%**	**64.6%**	**80.8%**
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	341.2	5.5	9.8

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Service Load Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.1248 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC.** Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.

2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.

4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

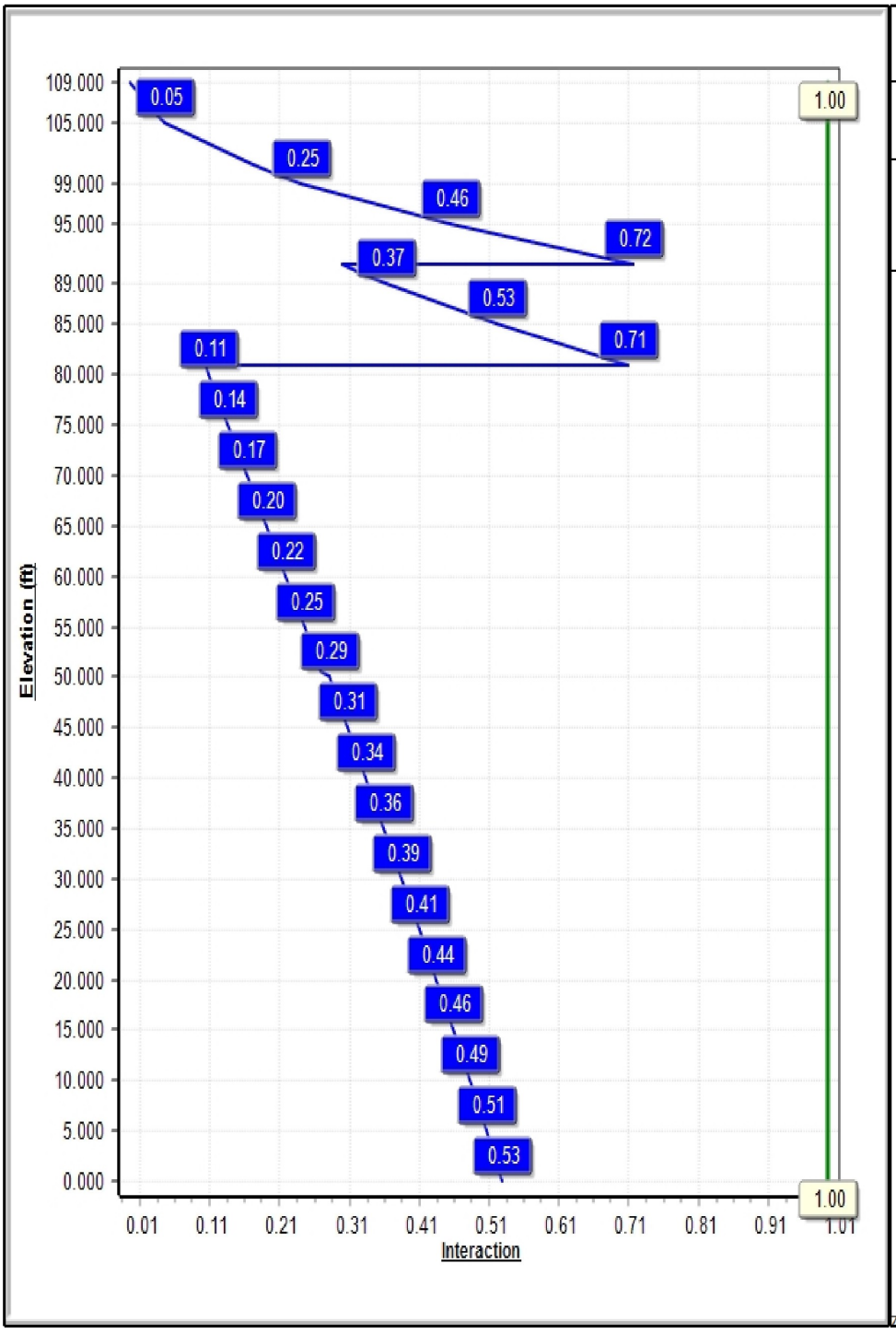
Usage Diagram - Max Ratio 72.09% at 91.0ft

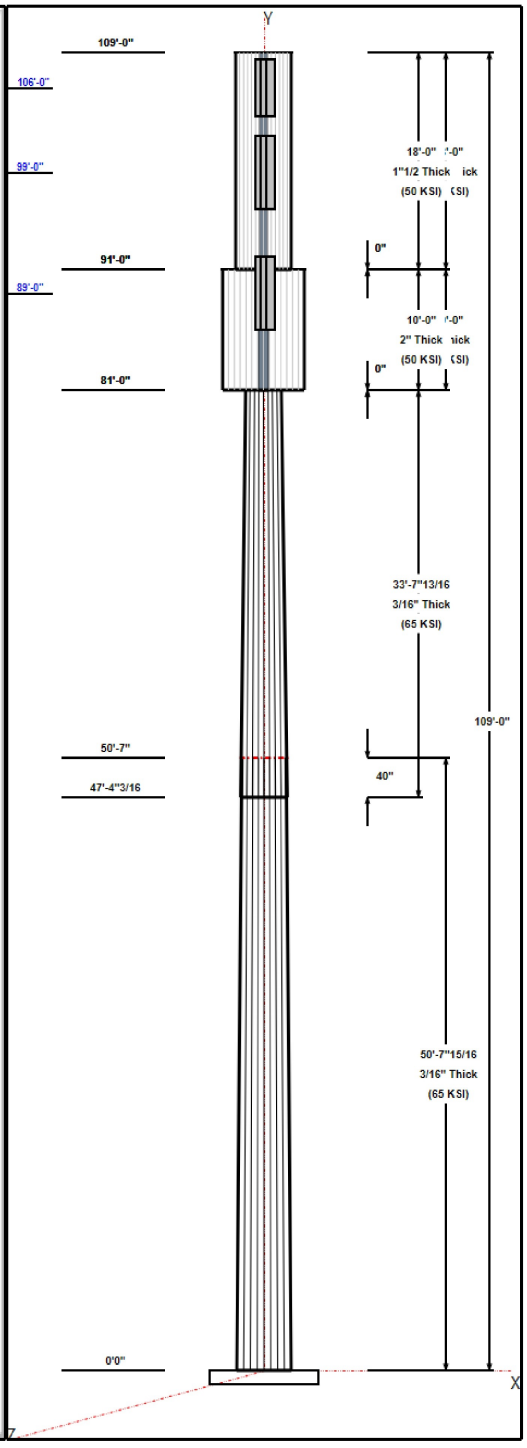
Structure:	CT40876-T-SBA	**Code:**	EIA/TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Gh:**	1.1		
Base Elev:	0.000 (ft)			Page: 1	

Tower Engineering Solutions

Dead Load Factor:	1.20	**Iterations:**	36
Wind Load Factor:	1.00		

Load Case : 1.2D + 1.0W 116 mph Wind





Structure: CT40876-T-SBA

Type: Custom
Site Name: CT389/New Canaan C C
Height: 109.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.14660

1/27/2023

Tower Engineering Solutions

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	50.66	21.57	29.00	0.188		0.14660	65
2	33.65	17.50	22.43	0.188	Slip	0.14660	65
3	10.00	4.00	4.00	2.000	Butt	0.00000	50
4	18.00	3.00	3.00	1.500	Butt	0.00000	50

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
109.00	109.00	1	30" OD Canister	--
106.00	106.00	3	Commscope	T-Mobile
106.00	106.00	3	Commscope VV-65A-R1	T-Mobile
101.00	101.00	1	30" OD Canister	
99.00	99.00	3	Commscope FVV-65B-R3	T-Mobile
99.00	99.00	3	Commscope	T-Mobile
91.00	91.00	1	30" OD Canister	--
89.00	89.00	3	HPA-65R-BUU-H6	AT&T
89.00	89.00	6	TMABPD7823VG12A	AT&T
81.00	81.00	1	30" OD Canister	--

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	106.00	Inside	7/8" Coax	T-Mobile
0.00	99.00	Inside	7/8" Coax	T-Mobile
0.00	89.00	Inside	7/8" Coax	AT&T

Anchor Bolts

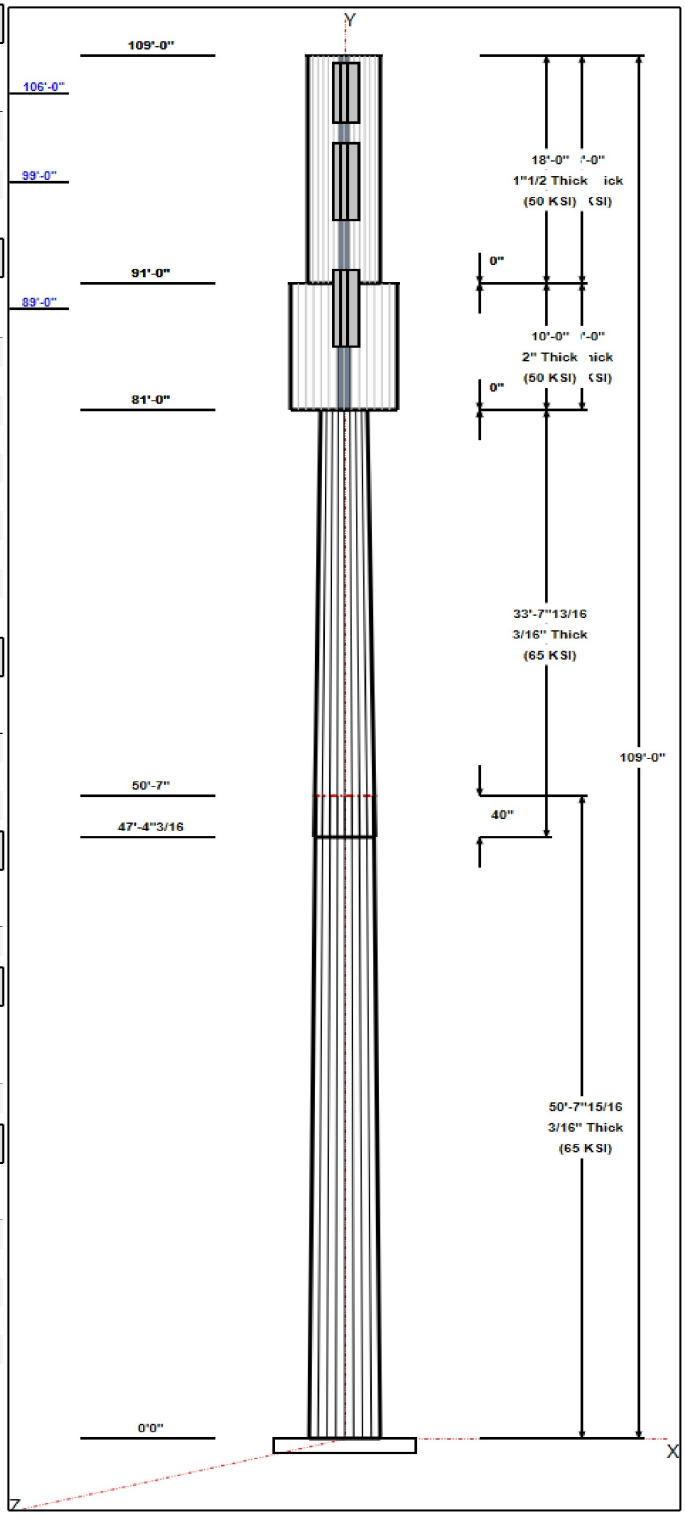
Qty	Specifications	Grade (ksi)	Arrangement
4	1.75" #18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.7500	36.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 116 mph Wind	341.2	5.5	9.8
0.9D + 1.0W 116 mph Wind	336.4	5.5	7.3
1.2D + 1.0Di + 1.0Wi 50 mph Wind	215.2	2.9	14.6
1.2D + 1.0Ev + 1.0Eh	12.2	0.1	10.3
0.9D + 1.0Ev + 1.0Eh	12.1	0.1	7.8
1.0D + 1.0W 60 mph Wind	76.9	1.3	8.2

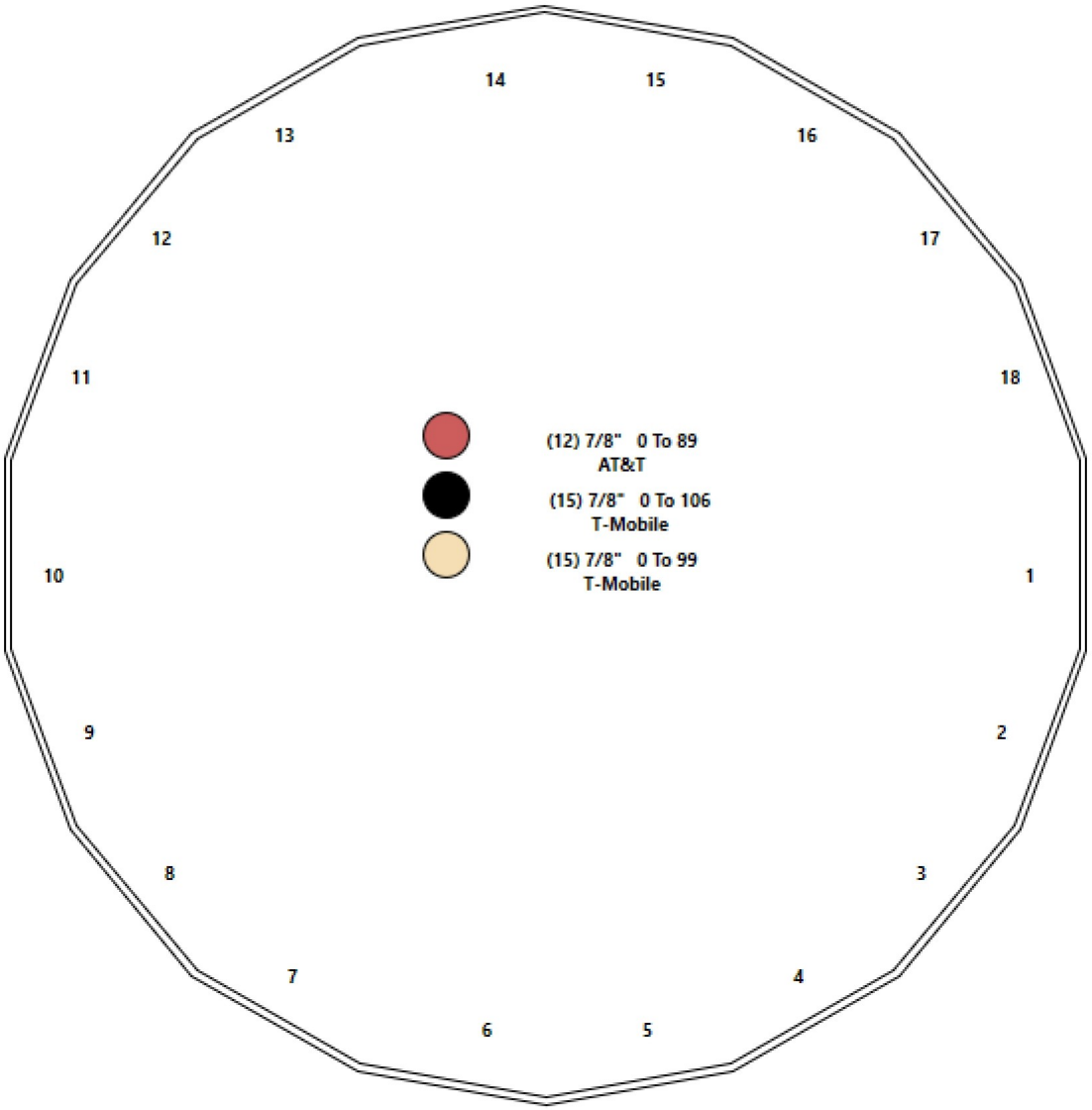


Structure: CT40876-T-SBA - Coax Line Placement

Type: Monopole
Site Name: CT389/New Canaan C C
Height: 109.00 (ft)

1/27/2023

Tower Engineering Solutions



Shaft Properties

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 4	

Tower Engineering Solutions

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	50.660	0.1875	65		0.00	2,575
2	18	33.650	0.1875	65	Slip	39.72	1,348
3	RS	10.000	2.0000	50	Flange	0.00	428
4	RS	18.000	1.5000	50	Flange	0.00	433
					Total Shaft Weight:		**4,783**

	Bottom						Top							
Sec. No.	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Taper**	**Canister Diam (in)**
1	29.00	0.00	17.15	1798.41	25.86	154.67	21.57	50.66	12.73	735.37	18.88	115.0	0.146605	0.00
2	22.43	47.35	13.24	827.73	19.69	119.64	17.50	81.00	10.30	390.14	15.05	93.33	0.146605	0.00
3	4.00	81.00	12.57	12.57	0.00	2.00	4.00	91.00	12.57	12.57	0.00	2.00	0.000000	43.00
4	3.00	91.00	7.07	3.98	0.00	2.00	3.00	109.00	7.07	3.98	0.00	2.00	0.000000	30.00

Load Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 5	

Tower Engineering Solutions

Discrete Appurtenances

				No Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	109.00	30" OD Canister	1	64.39	0.00	1.00	146.01	0.000	1.00	0.00	0.00
2	106.00	Commscope ATSBT-TOP-FM	3	1.80	0.00	1.00	4.71	0.000	1.00	0.00	0.00
3	106.00	Commscope VV-65A-R1	3	23.81	0.00	1.00	67.91	0.000	1.00	0.00	0.00
4	101.00	30" OD Canister	1	144.88	0.00	1.00	323.63	0.000	1.00	0.00	0.00
5	99.00	Commscope FVV-65B-R3	3	45.60	0.00	1.00	165.14	8.828	1.00	0.00	0.00
6	99.00	Commscope ATSBT-TOP-FM	3	1.80	0.00	1.00	4.69	0.000	1.00	0.00	0.00
7	91.00	30" OD Canister	1	160.98	0.00	1.00	354.33	0.000	1.00	0.00	0.00
8	89.00	HPA-65R-BUU-H6	3	51.00	0.00	1.00	222.50	12.743	1.00	0.00	0.00
9	89.00	TMABPD7823VG12A	6	26.00	0.00	0.00	47.87	0.000	0.00	0.00	0.00
10	81.00	30" OD Canister	1	80.49	0.00	1.00	176.36	0.000	1.00	0.00	0.00
		Totals:	**25**	**978.77**			**2,682.38**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	106.00	(15) 7/8" Coax	0.00	Inside
0.00	99.00	(15) 7/8" Coax	0.00	Inside
0.00	89.00	(12) 7/8" Coax	0.00	Inside

Shaft Section Properties

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.1875	29.000	17.146	1798.4	25.86	154.67	71.0	122.1	0.0
5.00		0.1875	28.267	16.710	1664.6	25.17	150.76	71.8	116.0	288.0
10.00		0.1875	27.534	16.274	1537.6	24.48	146.85	72.6	110.0	280.6
15.00		0.1875	26.801	15.838	1417.3	23.79	142.94	73.4	104.2	273.2
20.00		0.1875	26.068	15.402	1303.3	23.10	139.03	74.2	98.5	265.8
25.00		0.1875	25.335	14.965	1195.7	22.41	135.12	75.0	93.0	258.3
30.00		0.1875	24.602	14.529	1094.2	21.73	131.21	75.8	87.6	250.9
35.00		0.1875	23.869	14.093	998.5	21.04	127.30	76.7	82.4	243.5
40.00		0.1875	23.136	13.657	908.7	20.35	123.39	77.5	77.4	236.1
45.00		0.1875	22.403	13.220	824.3	19.66	119.48	78.3	72.5	228.6
47.35	Bot - Section 2	0.1875	22.058	13.015	786.6	19.33	117.64	78.7	70.2	104.9
50.00		0.1875	21.670	12.784	745.4	18.97	115.57	79.1	67.8	234.7
50.66	Top - Section 1	0.1875	21.948	12.950	774.7	19.23	117.06	0.0	0.0	57.8
55.00		0.1875	21.312	12.571	708.7	18.63	113.66	79.5	65.5	188.4
60.00		0.1875	20.579	12.135	637.5	17.94	109.75	80.3	61.0	210.2
65.00		0.1875	19.846	11.699	571.2	17.25	105.84	81.1	56.7	202.8
70.00		0.1875	19.113	11.262	509.6	16.56	101.93	81.9	52.5	195.3
75.00		0.1875	18.380	10.826	452.7	15.87	98.02	82.5	48.5	187.9
80.00		0.1875	17.647	10.390	400.1	15.18	94.12	82.5	44.7	180.5
81.00	Top - Section 2	0.1875	17.500	10.303	390.1	15.05	93.33	82.5	43.9	35.2
81.00	Bot - Section 3	2.0000	4.000	12.566	12.6	1.41	8.75	50.0	6.3	
85.00		2.0000	4.000	12.566	12.6	0.00	2.00	50.0	6.3	171.0
89.00		2.0000	4.000	12.566	12.6	0.00	2.00	50.0	6.3	171.0
90.00		2.0000	4.000	12.566	12.6	0.00	2.00	50.0	6.3	42.8
91.00	Top - Section 3	2.0000	4.000	12.566	12.6	0.00	2.00	50.0	6.3	42.8
91.00	Bot - Section 4	1.5000	3.000	7.069	4.0	0.00	2.67	50.0	2.7	
95.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	96.2
99.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	96.2
100.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	24.1
101.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	24.1
105.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	96.2
106.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	24.1
109.00		1.5000	3.000	7.069	4.0	0.00	2.00	50.0	2.7	72.2
										4783.2

Wind Loading - Shaft

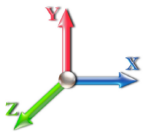
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 7	

Tower Engineering Solutions

Load Case: 1.2D + 1.0W 116 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 36

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	28.760	31.64	260.10	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	28.760	31.64	253.53	0.630	0.000	5.00	12.115	7.63	241.5	0.0	345.6
10.00		1.00	0.85	28.760	31.64	246.95	0.630	0.000	5.00	11.805	7.44	235.3	0.0	336.7
15.00		1.00	0.85	28.760	31.64	240.38	0.630	0.000	5.00	11.494	7.24	229.1	0.0	327.8
20.00		1.00	0.90	30.516	33.57	240.83	0.630	0.000	5.00	11.184	7.05	236.5	0.0	318.9
25.00		1.00	0.95	31.984	35.18	239.62	0.630	0.000	5.00	10.874	6.85	241.0	0.0	310.0
30.00		1.00	0.98	33.235	36.56	237.20	0.630	0.000	5.00	10.564	6.66	243.3	0.0	301.1
35.00		1.00	1.01	34.331	37.76	233.90	0.630	0.000	5.00	10.254	6.46	244.0	0.0	292.2
40.00		1.00	1.04	35.310	38.84	229.92	0.630	0.000	5.00	9.944	6.26	243.3	0.0	283.3
45.00		1.00	1.07	36.197	39.82	225.42	0.630	0.000	5.00	9.634	6.07	241.7	0.0	274.4
47.35	Bot - Section 2	1.00	1.08	36.587	40.25	223.14	0.630	0.000	2.35	4.421	2.79	112.1	0.0	125.9
50.00		1.00	1.09	37.009	40.71	220.47	0.630	0.000	2.65	4.987	3.14	127.9	0.0	281.6
50.66	Top - Section 1	1.00	1.10	37.111	40.82	219.79	0.630	0.000	0.66	1.228	0.77	31.6	0.0	69.4
55.00		1.00	1.12	37.759	41.53	219.02	0.630	0.000	4.34	7.943	5.00	207.9	0.0	226.1
60.00		1.00	1.14	38.457	42.30	213.43	0.630	0.000	5.00	8.862	5.58	236.2	0.0	252.2
65.00		1.00	1.16	39.110	43.02	207.57	0.630	0.000	5.00	8.552	5.39	231.8	0.0	243.3
70.00		1.00	1.17	39.725	43.70	201.47	0.630	0.000	5.00	8.242	5.19	226.9	0.0	234.4
75.00		1.00	1.19	40.306	44.34	195.15	0.630	0.000	5.00	7.931	5.00	221.5	0.0	225.5
80.00		1.00	1.21	40.858	44.94	188.65	0.630	0.000	5.00	7.621	4.80	215.8	0.0	216.6
81.00	Top - Section 2	1.00	1.21	40.965	45.06	187.32	0.630	0.000	1.00	1.487	0.94	42.2	0.0	42.2
85.00		1.00	1.22	41.383	45.52	455.59	0.450	0.000	4.00	14.333	6.45	293.6	0.0	260.3
89.00	Appurtenance(s)	1.00	1.23	41.785	45.96	457.80	0.450	0.000	4.00	14.333	6.45	296.5	0.0	260.3
90.00		1.00	1.24	41.884	46.07	458.34	0.450	0.000	1.00	3.583	1.61	74.3	0.0	65.1
91.00	Top - Section 3	1.00	1.24	41.981	46.18	458.88	0.450	0.000	1.00	3.583	1.61	74.5	0.0	65.1
95.00		1.00	1.25	42.363	46.60	321.60	0.450	0.000	4.00	10.000	4.50	209.7	0.0	153.9
99.00	Appurtenance(s)	1.00	1.26	42.733	47.01	323.00	0.450	0.000	4.00	10.000	4.50	211.5	0.0	153.9
100.00		1.00	1.27	42.823	47.11	323.34	0.450	0.000	1.00	2.500	1.13	53.0	0.0	38.5
101.00	Appurtenance(s)	1.00	1.27	42.913	47.20	323.68	0.450	0.000	1.00	2.500	1.13	53.1	0.0	38.5
105.00		1.00	1.28	43.265	47.59	325.00	0.450	0.000	4.00	10.000	4.50	214.2	0.0	153.9
106.00	Appurtenance(s)	1.00	1.28	43.352	47.69	325.33	0.450	0.000	1.00	2.500	1.13	53.6	0.0	38.5
109.00	Appurtenance(s)	1.00	1.29	43.607	47.97	326.29	0.450	0.000	3.00	7.500	3.38	161.9	0.0	115.4
								Totals:	**109.00**			**5,505.3**		**6,050.2**

Discrete Appurtenance Forces

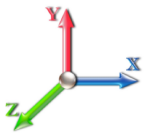
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.0W 116 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 36

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	109.00	30" OD Canister	1	43.607	47.968	1.00	1.00	0.00	77.27	0.000	0.000	0.00	0.00	0.00
2	106.00	Commscope	3	43.352	47.687	1.00	1.00	0.00	6.48	0.000	0.000	0.00	0.00	0.00
3	106.00	Commscope VV-65A-R1	3	43.352	47.687	1.00	1.00	0.00	85.72	0.000	0.000	0.00	0.00	0.00
4	101.00	30" OD Canister	1	42.913	47.204	1.00	1.00	0.00	173.86	0.000	0.000	0.00	0.00	0.00
5	99.00	Commscope FVV-65B-R3	3	42.733	47.006	1.00	1.00	0.00	164.16	0.000	0.000	0.00	0.00	0.00
6	99.00	Commscope	3	42.733	47.006	1.00	1.00	0.00	6.48	0.000	0.000	0.00	0.00	0.00
7	91.00	30" OD Canister	1	41.981	46.179	1.00	1.00	0.00	193.18	0.000	0.000	0.00	0.00	0.00
8	89.00	HPA-65R-BUU-H6	3	41.785	45.964	1.00	1.00	0.00	183.60	0.000	0.000	0.00	0.00	0.00
9	89.00	TMABPD7823VG12A	6	41.785	45.964	0.00	1.00	0.00	187.20	0.000	0.000	0.00	0.00	0.00
10	81.00	30" OD Canister	1	40.965	45.061	1.00	1.00	0.00	96.59	0.000	0.000	0.00	0.00	0.00
							Totals:		**1,174.52**			**0.00**		

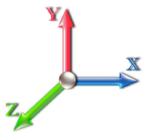
Total Applied Force Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Load Case: 1.2D + 1.0W 116 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 36

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		241.46	476.66	0.00	0.00
10.00		235.27	467.75	0.00	0.00
15.00		229.09	458.85	0.00	0.00
20.00		236.52	449.94	0.00	0.00
25.00		241.02	441.03	0.00	0.00
30.00		243.31	432.13	0.00	0.00
35.00		243.96	423.22	0.00	0.00
40.00		243.32	414.32	0.00	0.00
45.00		241.65	405.41	0.00	0.00
47.35		112.08	187.47	0.00	0.00
50.00		127.90	351.04	0.00	0.00
50.66		31.59	86.65	0.00	0.00
55.00		207.86	339.88	0.00	0.00
60.00		236.17	383.25	0.00	0.00
65.00		231.78	374.34	0.00	0.00
70.00		226.89	365.43	0.00	0.00
75.00		221.54	356.53	0.00	0.00
80.00		215.79	347.62	0.00	0.00
81.00	(1) attachments	42.21	165.04	0.00	0.00
85.00		293.61	365.12	0.00	0.00
89.00	(9) attachments	296.47	735.92	0.00	0.00
90.00		74.29	83.79	0.00	0.00
91.00	(1) attachments	74.46	276.97	0.00	0.00
95.00		209.70	228.73	0.00	0.00
99.00	(6) attachments	211.53	399.37	0.00	0.00
100.00		52.99	47.82	0.00	0.00
101.00	(1) attachments	53.10	221.68	0.00	0.00
105.00		214.16	191.29	0.00	0.00
106.00	(6) attachments	53.65	140.02	0.00	0.00
109.00	(1) attachments	161.89	192.66	0.00	0.00
	Totals:	**5,505.27**	**9,809.95**	**0.00**	**0.00**

Calculated Forces

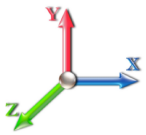
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

Load Case: 1.2D + 1.0W 116 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 36

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-9.80	-5.53	0.00	-341.20	0.00	341.20	1095.40	300.92	719.36	650.26	0.00	0.000	0.000	0.534
5.00	-9.30	-5.33	0.00	-313.56	0.00	313.56	1079.72	293.26	683.22	624.55	0.14	-0.259	0.000	0.511
10.00	-8.81	-5.13	0.00	-286.93	0.00	286.93	1063.41	285.61	648.02	598.95	0.55	-0.516	0.000	0.488
15.00	-8.33	-4.93	0.00	-261.29	0.00	261.29	1046.46	277.95	613.74	573.49	1.22	-0.769	0.000	0.464
20.00	-7.86	-4.72	0.00	-236.64	0.00	236.64	1028.88	270.30	580.40	548.22	2.16	-1.019	0.000	0.440
25.00	-7.41	-4.50	0.00	-213.03	0.00	213.03	1010.66	262.64	547.99	523.15	3.36	-1.264	0.000	0.415
30.00	-6.97	-4.28	0.00	-190.52	0.00	190.52	991.80	254.99	516.51	498.31	4.82	-1.504	0.000	0.390
35.00	-6.53	-4.05	0.00	-169.13	0.00	169.13	972.31	247.33	485.96	473.74	6.52	-1.738	0.000	0.364
40.00	-6.11	-3.82	0.00	-148.89	0.00	148.89	952.17	239.67	456.34	449.45	8.46	-1.965	0.000	0.338
45.00	-5.71	-3.57	0.00	-129.82	0.00	129.82	931.41	232.02	427.65	425.49	10.63	-2.183	0.000	0.311
47.35	-5.52	-3.47	0.00	-121.42	0.00	121.42	921.43	228.42	414.49	414.35	11.73	-2.285	0.000	0.299
50.00	-5.17	-3.33	0.00	-112.23	0.00	112.23	910.00	224.36	399.89	401.88	13.03	-2.397	0.000	0.285
50.66	-5.08	-3.30	0.00	-110.03	0.00	110.03	918.20	227.27	410.32	410.80	13.37	-2.425	0.000	0.274
55.00	-4.74	-3.10	0.00	-95.70	0.00	95.70	899.32	220.62	386.67	390.49	15.65	-2.598	0.000	0.251
60.00	-4.36	-2.85	0.00	-80.22	0.00	80.22	876.96	212.97	360.30	367.45	18.47	-2.774	0.000	0.223
65.00	-3.99	-2.62	0.00	-65.94	0.00	65.94	853.97	205.31	334.87	344.84	21.46	-2.937	0.000	0.196
70.00	-3.63	-2.38	0.00	-52.87	0.00	52.87	830.35	197.66	310.36	322.68	24.62	-3.085	0.000	0.168
75.00	-3.28	-2.14	0.00	-40.98	0.00	40.98	804.33	190.00	286.78	300.34	27.92	-3.216	0.000	0.141
80.00	-2.94	-1.91	0.00	-30.25	0.00	30.25	771.92	182.34	264.14	276.51	31.34	-3.328	0.000	0.113
81.00	-2.78	-1.86	0.00	-28.34	0.00	28.34	765.44	180.81	259.72	271.86	32.04	-3.349	0.000	0.108
81.00	-2.78	-1.86	0.00	-28.34	0.00	28.34	565.49	169.65	16390.8	40.00	32.04	-3.349	0.000	0.714
85.00	-2.41	-1.59	0.00	-20.89	0.00	20.89	565.49	169.65	16390.8	40.00	34.88	-3.421	0.000	0.527
89.00	-1.68	-1.26	0.00	-14.54	0.00	14.54	565.49	169.65	16390.8	40.00	38.45	-5.025	0.000	0.367
90.00	-1.59	-1.19	0.00	-13.28	0.00	13.28	565.49	169.65	16390.8	40.00	39.54	-5.340	0.000	0.335
91.00	-1.31	-1.10	0.00	-12.09	0.00	12.09	565.49	169.65	16390.8	40.00	40.69	-5.627	0.000	0.305
91.00	-1.31	-1.10	0.00	-12.09	0.00	12.09	318.09	95.43	6914.87	16.88	40.69	-5.627	0.000	0.721
95.00	-1.09	-0.90	0.00	-7.68	0.00	7.68	318.09	95.43	6914.87	16.88	45.79	-6.522	0.000	0.459
99.00	-0.71	-0.65	0.00	-4.10	0.00	4.10	318.09	95.43	6914.87	16.88	52.02	-8.208	0.000	0.245
100.00	-0.67	-0.59	0.00	-3.45	0.00	3.45	318.09	95.43	6914.87	16.88	53.76	-8.479	0.000	0.207
101.00	-0.45	-0.51	0.00	-2.87	0.00	2.87	318.09	95.43	6914.87	16.88	55.55	-8.705	0.000	0.171
105.00	-0.29	-0.27	0.00	-0.84	0.00	0.84	318.09	95.43	6914.87	16.88	63.08	-9.235	0.000	0.051
106.00	-0.16	-0.19	0.00	-0.57	0.00	0.57	318.09	95.43	6914.87	16.88	65.01	-9.285	0.000	0.034
109.00	0.00	-0.16	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88	70.84	-9.347	0.000	0.000

Wind Loading - Shaft

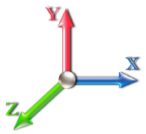
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

TES Tower Engineering Solutions

Load Case: 0.9D + 1.0W 116 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 36

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	28.760	31.64	260.10	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	28.760	31.64	253.53	0.630	0.000	5.00	12.115	7.63	241.5	0.0	259.2
10.00		1.00	0.85	28.760	31.64	246.95	0.630	0.000	5.00	11.805	7.44	235.3	0.0	252.5
15.00		1.00	0.85	28.760	31.64	240.38	0.630	0.000	5.00	11.494	7.24	229.1	0.0	245.9
20.00		1.00	0.90	30.516	33.57	240.83	0.630	0.000	5.00	11.184	7.05	236.5	0.0	239.2
25.00		1.00	0.95	31.984	35.18	239.62	0.630	0.000	5.00	10.874	6.85	241.0	0.0	232.5
30.00		1.00	0.98	33.235	36.56	237.20	0.630	0.000	5.00	10.564	6.66	243.3	0.0	225.8
35.00		1.00	1.01	34.331	37.76	233.90	0.630	0.000	5.00	10.254	6.46	244.0	0.0	219.1
40.00		1.00	1.04	35.310	38.84	229.92	0.630	0.000	5.00	9.944	6.26	243.3	0.0	212.5
45.00		1.00	1.07	36.197	39.82	225.42	0.630	0.000	5.00	9.634	6.07	241.7	0.0	205.8
47.35	Bot - Section 2	1.00	1.08	36.587	40.25	223.14	0.630	0.000	2.35	4.421	2.79	112.1	0.0	94.4
50.00		1.00	1.09	37.009	40.71	220.47	0.630	0.000	2.65	4.987	3.14	127.9	0.0	211.2
50.66	Top - Section 1	1.00	1.10	37.111	40.82	219.79	0.630	0.000	0.66	1.228	0.77	31.6	0.0	52.0
55.00		1.00	1.12	37.759	41.53	219.02	0.630	0.000	4.34	7.943	5.00	207.9	0.0	169.6
60.00		1.00	1.14	38.457	42.30	213.43	0.630	0.000	5.00	8.862	5.58	236.2	0.0	189.2
65.00		1.00	1.16	39.110	43.02	207.57	0.630	0.000	5.00	8.552	5.39	231.8	0.0	182.5
70.00		1.00	1.17	39.725	43.70	201.47	0.630	0.000	5.00	8.242	5.19	226.9	0.0	175.8
75.00		1.00	1.19	40.306	44.34	195.15	0.630	0.000	5.00	7.931	5.00	221.5	0.0	169.1
80.00		1.00	1.21	40.858	44.94	188.65	0.630	0.000	5.00	7.621	4.80	215.8	0.0	162.4
81.00	Top - Section 2	1.00	1.21	40.965	45.06	187.32	0.630	0.000	1.00	1.487	0.94	42.2	0.0	31.7
85.00		1.00	1.22	41.383	45.52	455.59	0.450	0.000	4.00	14.333	6.45	293.6	0.0	195.2
89.00	Appurtenance(s)	1.00	1.23	41.785	45.96	457.80	0.450	0.000	4.00	14.333	6.45	296.5	0.0	195.2
90.00		1.00	1.24	41.884	46.07	458.34	0.450	0.000	1.00	3.583	1.61	74.3	0.0	48.8
91.00	Top - Section 3	1.00	1.24	41.981	46.18	458.88	0.450	0.000	1.00	3.583	1.61	74.5	0.0	48.8
95.00		1.00	1.25	42.363	46.60	321.60	0.450	0.000	4.00	10.000	4.50	209.7	0.0	115.4
99.00	Appurtenance(s)	1.00	1.26	42.733	47.01	323.00	0.450	0.000	4.00	10.000	4.50	211.5	0.0	115.4
100.00		1.00	1.27	42.823	47.11	323.34	0.450	0.000	1.00	2.500	1.13	53.0	0.0	28.8
101.00	Appurtenance(s)	1.00	1.27	42.913	47.20	323.68	0.450	0.000	1.00	2.500	1.13	53.1	0.0	28.8
105.00		1.00	1.28	43.265	47.59	325.00	0.450	0.000	4.00	10.000	4.50	214.2	0.0	115.4
106.00	Appurtenance(s)	1.00	1.28	43.352	47.69	325.33	0.450	0.000	1.00	2.500	1.13	53.6	0.0	28.8
109.00	Appurtenance(s)	1.00	1.29	43.607	47.97	326.29	0.450	0.000	3.00	7.500	3.38	161.9	0.0	86.5
								Totals:	**109.00**			**5,505.3**		**4,537.6**

Discrete Appurtenance Forces

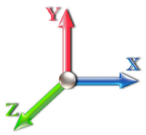
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Tower Engineering Solutions

Load Case: 0.9D + 1.0W 116 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 36

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	109.00	30" OD Canister	1	43.607	47.968	1.00	1.00	0.00	57.95	0.000	0.000	0.00	0.00	0.00
2	106.00	Commscope	3	43.352	47.687	1.00	1.00	0.00	4.86	0.000	0.000	0.00	0.00	0.00
3	106.00	Commscope VV-65A-R1	3	43.352	47.687	1.00	1.00	0.00	64.29	0.000	0.000	0.00	0.00	0.00
4	101.00	30" OD Canister	1	42.913	47.204	1.00	1.00	0.00	130.39	0.000	0.000	0.00	0.00	0.00
5	99.00	Commscope FVV-65B-R3	3	42.733	47.006	1.00	1.00	0.00	123.12	0.000	0.000	0.00	0.00	0.00
6	99.00	Commscope	3	42.733	47.006	1.00	1.00	0.00	4.86	0.000	0.000	0.00	0.00	0.00
7	91.00	30" OD Canister	1	41.981	46.179	1.00	1.00	0.00	144.88	0.000	0.000	0.00	0.00	0.00
8	89.00	HPA-65R-BUU-H6	3	41.785	45.964	1.00	1.00	0.00	137.70	0.000	0.000	0.00	0.00	0.00
9	89.00	TMABPD7823VG12A	6	41.785	45.964	0.00	1.00	0.00	140.40	0.000	0.000	0.00	0.00	0.00
10	81.00	30" OD Canister	1	40.965	45.061	1.00	1.00	0.00	72.44	0.000	0.000	0.00	0.00	0.00
							Totals:		**880.89**			**0.00**		

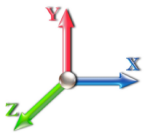
Total Applied Force Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Load Case: 0.9D + 1.0W 116 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 36

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		241.46	357.49	0.00	0.00
10.00		235.27	350.82	0.00	0.00
15.00		229.09	344.14	0.00	0.00
20.00		236.52	337.46	0.00	0.00
25.00		241.02	330.78	0.00	0.00
30.00		243.31	324.10	0.00	0.00
35.00		243.96	317.42	0.00	0.00
40.00		243.32	310.74	0.00	0.00
45.00		241.65	304.06	0.00	0.00
47.35		112.08	140.60	0.00	0.00
50.00		127.90	263.28	0.00	0.00
50.66		31.59	64.99	0.00	0.00
55.00		207.86	254.91	0.00	0.00
60.00		236.17	287.44	0.00	0.00
65.00		231.78	280.76	0.00	0.00
70.00		226.89	274.08	0.00	0.00
75.00		221.54	267.40	0.00	0.00
80.00		215.79	260.72	0.00	0.00
81.00	(1) attachments	42.21	123.78	0.00	0.00
85.00		293.61	273.84	0.00	0.00
89.00	(9) attachments	296.47	551.94	0.00	0.00
90.00		74.29	62.84	0.00	0.00
91.00	(1) attachments	74.46	207.73	0.00	0.00
95.00		209.70	171.55	0.00	0.00
99.00	(6) attachments	211.53	299.53	0.00	0.00
100.00		52.99	35.87	0.00	0.00
101.00	(1) attachments	53.10	166.26	0.00	0.00
105.00		214.16	143.47	0.00	0.00
106.00	(6) attachments	53.65	105.01	0.00	0.00
109.00	(1) attachments	161.89	144.49	0.00	0.00
	Totals:	**5,505.27**	**7,357.46**	**0.00**	**0.00**

Calculated Forces

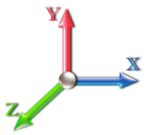
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Tower Engineering Solutions

Load Case: 0.9D + 1.0W 116 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 36

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-7.34	-5.52	0.00	-336.44	0.00	336.44	1095.40	300.92	719.36	650.26	0.00	0.000	0.000	0.524
5.00	-6.96	-5.31	0.00	-308.83	0.00	308.83	1079.72	293.26	683.22	624.55	0.14	-0.255	0.000	0.501
10.00	-6.59	-5.10	0.00	-282.28	0.00	282.28	1063.41	285.61	648.02	598.95	0.54	-0.508	0.000	0.478
15.00	-6.23	-4.90	0.00	-256.77	0.00	256.77	1046.46	277.95	613.74	573.49	1.21	-0.757	0.000	0.454
20.00	-5.88	-4.68	0.00	-232.29	0.00	232.29	1028.88	270.30	580.40	548.22	2.13	-1.003	0.000	0.430
25.00	-5.53	-4.45	0.00	-208.89	0.00	208.89	1010.66	262.64	547.99	523.15	3.31	-1.243	0.000	0.405
30.00	-5.20	-4.22	0.00	-186.62	0.00	186.62	991.80	254.99	516.51	498.31	4.74	-1.479	0.000	0.380
35.00	-4.87	-3.99	0.00	-165.49	0.00	165.49	972.31	247.33	485.96	473.74	6.41	-1.707	0.000	0.355
40.00	-4.55	-3.76	0.00	-145.54	0.00	145.54	952.17	239.67	456.34	449.45	8.32	-1.929	0.000	0.329
45.00	-4.25	-3.51	0.00	-126.76	0.00	126.76	931.41	232.02	427.65	425.49	10.45	-2.142	0.000	0.303
47.35	-4.11	-3.40	0.00	-118.50	0.00	118.50	921.43	228.42	414.49	414.35	11.53	-2.242	0.000	0.291
50.00	-3.84	-3.27	0.00	-109.48	0.00	109.48	910.00	224.36	399.89	401.88	12.81	-2.351	0.000	0.277
50.66	-3.78	-3.24	0.00	-107.32	0.00	107.32	918.20	227.27	410.32	410.80	13.13	-2.378	0.000	0.266
55.00	-3.52	-3.04	0.00	-93.24	0.00	93.24	899.32	220.62	386.67	390.49	15.37	-2.547	0.000	0.243
60.00	-3.24	-2.80	0.00	-78.06	0.00	78.06	876.96	212.97	360.30	367.45	18.13	-2.718	0.000	0.216
65.00	-2.96	-2.56	0.00	-64.09	0.00	64.09	853.97	205.31	334.87	344.84	21.06	-2.877	0.000	0.189
70.00	-2.69	-2.32	0.00	-51.30	0.00	51.30	830.35	197.66	310.36	322.68	24.16	-3.021	0.000	0.162
75.00	-2.43	-2.09	0.00	-39.68	0.00	39.68	804.33	190.00	286.78	300.34	27.39	-3.148	0.000	0.135
80.00	-2.18	-1.87	0.00	-29.21	0.00	29.21	771.92	182.34	264.14	276.51	30.74	-3.256	0.000	0.109
81.00	-2.06	-1.82	0.00	-27.35	0.00	27.35	765.44	180.81	259.72	271.86	31.43	-3.276	0.000	0.103
81.00	-2.06	-1.82	0.00	-27.35	0.00	27.35	565.49	169.65	16390.8	40.00	31.43	-3.276	0.000	0.687
85.00	-1.78	-1.54	0.00	-20.08	0.00	20.08	565.49	169.65	16390.8	40.00	34.20	-3.345	0.000	0.505
89.00	-1.23	-1.22	0.00	-13.93	0.00	13.93	565.49	169.65	16390.8	40.00	37.68	-4.885	0.000	0.351
90.00	-1.17	-1.15	0.00	-12.71	0.00	12.71	565.49	169.65	16390.8	40.00	38.74	-5.187	0.000	0.320
91.00	-0.96	-1.06	0.00	-11.57	0.00	11.57	565.49	169.65	16390.8	40.00	39.85	-5.462	0.000	0.291
91.00	-0.96	-1.06	0.00	-11.57	0.00	11.57	318.09	95.43	6914.87	16.88	39.85	-5.462	0.000	0.689
95.00	-0.79	-0.85	0.00	-7.32	0.00	7.32	318.09	95.43	6914.87	16.88	44.80	-6.317	0.000	0.436
99.00	-0.51	-0.61	0.00	-3.91	0.00	3.91	318.09	95.43	6914.87	16.88	50.82	-7.924	0.000	0.233
100.00	-0.48	-0.56	0.00	-3.29	0.00	3.29	318.09	95.43	6914.87	16.88	52.50	-8.182	0.000	0.197
101.00	-0.32	-0.48	0.00	-2.74	0.00	2.74	318.09	95.43	6914.87	16.88	54.23	-8.398	0.000	0.163
105.00	-0.21	-0.25	0.00	-0.80	0.00	0.80	318.09	95.43	6914.87	16.88	61.49	-8.903	0.000	0.048
106.00	-0.12	-0.18	0.00	-0.55	0.00	0.55	318.09	95.43	6914.87	16.88	63.35	-8.952	0.000	0.033
109.00	0.00	-0.16	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88	68.98	-9.010	0.000	0.000

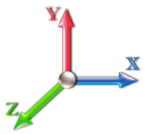
Wind Loading - Shaft

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 35

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.343	5.88	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.343	5.88	0.00	1.200	0.828	5.00	12.805	15.37	90.3	150.9	496.5
10.00		1.00	0.85	5.343	5.88	0.00	1.200	0.887	5.00	12.544	15.05	88.5	158.0	494.7
15.00		1.00	0.85	5.343	5.88	0.00	1.200	0.924	5.00	12.265	14.72	86.5	160.5	488.3
20.00		1.00	0.90	5.670	6.24	0.00	1.200	0.951	5.00	11.977	14.37	89.6	161.0	479.9
25.00		1.00	0.95	5.942	6.54	0.00	1.200	0.973	5.00	11.685	14.02	91.7	160.3	470.3
30.00		1.00	0.98	6.175	6.79	0.00	1.200	0.991	5.00	11.389	13.67	92.8	158.8	459.9
35.00		1.00	1.01	6.378	7.02	0.00	1.200	1.006	5.00	11.092	13.31	93.4	156.7	448.9
40.00		1.00	1.04	6.560	7.22	0.00	1.200	1.019	5.00	10.793	12.95	93.5	154.2	437.5
45.00		1.00	1.07	6.725	7.40	0.00	1.200	1.032	5.00	10.493	12.59	93.1	151.4	425.7
47.35	Bot - Section 2	1.00	1.08	6.797	7.48	0.00	1.200	1.037	2.35	4.827	5.79	43.3	70.5	196.4
50.00		1.00	1.09	6.876	7.56	0.00	1.200	1.042	2.65	5.447	6.54	49.4	79.9	361.5
50.66	Top - Section 1	1.00	1.10	6.895	7.58	0.00	1.200	1.044	0.66	1.343	1.61	12.2	19.8	89.2
55.00		1.00	1.12	7.015	7.72	0.00	1.200	1.052	4.34	8.705	10.45	80.6	127.9	354.1
60.00		1.00	1.14	7.145	7.86	0.00	1.200	1.062	5.00	9.746	11.70	91.9	143.9	396.1
65.00		1.00	1.16	7.266	7.99	0.00	1.200	1.070	5.00	9.443	11.33	90.6	140.2	383.5
70.00		1.00	1.17	7.381	8.12	0.00	1.200	1.078	5.00	9.140	10.97	89.0	136.3	370.7
75.00		1.00	1.19	7.489	8.24	0.00	1.200	1.086	5.00	8.836	10.60	87.3	132.3	357.8
80.00		1.00	1.21	7.591	8.35	0.00	1.200	1.093	5.00	8.532	10.24	85.5	128.2	344.8
81.00	Top - Section 2	1.00	1.21	7.611	8.37	0.00	1.200	1.094	1.00	1.669	2.00	16.8	25.5	67.7
85.00		1.00	1.22	7.689	8.46	0.00	1.200	1.099	4.00	14.333	17.20	145.5	264.6	524.8
89.00	Appurtenance(s)	1.00	1.23	7.763	8.54	0.00	1.200	1.104	4.00	14.333	17.20	146.9	264.7	525.0
90.00		1.00	1.24	7.782	8.56	0.00	1.200	1.106	1.00	3.583	4.30	36.8	66.2	131.3
91.00	Top - Section 3	1.00	1.24	7.800	8.58	0.00	1.200	1.107	1.00	3.583	4.30	36.9	66.2	131.3
95.00		1.00	1.25	7.871	8.66	0.00	1.200	1.112	4.00	10.000	12.00	103.9	188.6	342.5
99.00	Appurtenance(s)	1.00	1.26	7.939	8.73	0.00	1.200	1.116	4.00	10.000	12.00	104.8	188.8	342.6
100.00		1.00	1.27	7.956	8.75	0.00	1.200	1.117	1.00	2.500	3.00	26.3	47.2	85.7
101.00	Appurtenance(s)	1.00	1.27	7.973	8.77	0.00	1.200	1.118	1.00	2.500	3.00	26.3	47.2	85.7
105.00		1.00	1.28	8.038	8.84	0.00	1.200	1.123	4.00	10.000	12.00	106.1	188.9	342.8
106.00	Appurtenance(s)	1.00	1.28	8.054	8.86	0.00	1.200	1.124	1.00	2.500	3.00	26.6	47.2	85.7
109.00	Appurtenance(s)	1.00	1.29	8.102	8.91	0.00	1.200	1.127	3.00	7.500	9.00	80.2	141.8	257.2
								Totals:	**109.00**			**2,306.3**		**9,977.7**

Discrete Appurtenance Forces

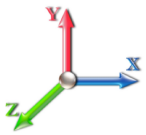
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 16	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 35

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	109.00	30" OD Canister	1	8.102	8.912	1.00	1.00	0.00	-169.79	0.000	0.000	0.00	0.00	0.00
2	106.00	Commscope	3	8.054	8.860	1.00	1.00	0.00	7.12	0.000	0.000	0.00	0.00	0.00
3	106.00	Commscope VV-65A-R1	3	8.054	8.860	1.00	1.00	0.00	66.83	0.000	0.000	0.00	0.00	0.00
4	101.00	30" OD Canister	1	7.973	8.770	1.00	1.00	0.00	497.48	0.000	0.000	0.00	0.00	0.00
5	99.00	Commscope FVV-65B-R3	3	7.939	8.733	1.00	1.00	26.48	522.79	0.000	0.000	231.29	0.00	0.00
6	99.00	Commscope	3	7.939	8.733	1.00	1.00	0.00	7.06	0.000	0.000	0.00	0.00	0.00
7	91.00	30" OD Canister	1	7.800	8.580	1.00	1.00	0.00	154.43	0.000	0.000	0.00	0.00	0.00
8	89.00	HPA-65R-BUU-H6	3	7.763	8.540	1.00	1.00	38.23	698.10	0.000	0.000	326.45	0.00	0.00
9	89.00	TMABPD7823VG12A	6	7.763	8.540	0.00	1.00	0.00	315.40	0.000	0.000	0.00	0.00	0.00
10	81.00	30" OD Canister	1	7.611	8.372	1.00	1.00	0.00	-120.12	0.000	0.000	0.00	0.00	0.00
							Totals:		**1,979.30**			**557.74**		

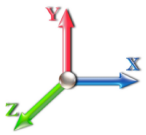
Total Applied Force Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 35

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		90.32	627.57	0.00	0.00
10.00		88.48	625.74	0.00	0.00
15.00		86.51	619.34	0.00	0.00
20.00		89.63	610.90	0.00	0.00
25.00		91.65	601.29	0.00	0.00
30.00		92.83	590.89	0.00	0.00
35.00		93.39	579.93	0.00	0.00
40.00		93.47	568.53	0.00	0.00
45.00		93.15	556.79	0.00	0.00
47.35		43.31	257.94	0.00	0.00
50.00		49.44	430.92	0.00	0.00
50.66		12.23	106.49	0.00	0.00
55.00		80.61	467.81	0.00	0.00
60.00		91.92	527.11	0.00	0.00
65.00		90.58	514.50	0.00	0.00
70.00		89.04	501.73	0.00	0.00
75.00		87.34	488.83	0.00	0.00
80.00		85.49	475.81	0.00	0.00
81.00	(1) attachments	16.77	-26.19	0.00	0.00
85.00		145.47	629.67	0.00	0.00
89.00	(9) attachments	473.33	1643.33	0.00	0.00
90.00		36.81	149.98	0.00	0.00
91.00	(1) attachments	36.89	304.42	0.00	0.00
95.00		103.89	417.38	0.00	0.00
99.00	(6) attachments	336.09	947.34	0.00	0.00
100.00		26.26	95.02	0.00	0.00
101.00	(1) attachments	26.31	592.51	0.00	0.00
105.00		106.11	380.23	0.00	0.00
106.00	(6) attachments	26.58	169.01	0.00	0.00
109.00	(1) attachments	80.21	87.38	0.00	0.00
	Totals:	**2,864.08**	**14,542.21**	**0.00**	**0.00**

Calculated Forces

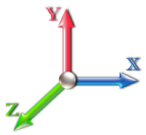
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 35

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-14.56	-2.89	0.00	-215.17	0.00	215.17	1095.40	300.92	719.36	650.26	0.00	0.000	0.000	0.344
5.00	-13.93	-2.83	0.00	-200.74	0.00	200.74	1079.72	293.26	683.22	624.55	0.09	-0.164	0.000	0.334
10.00	-13.30	-2.78	0.00	-186.57	0.00	186.57	1063.41	285.61	648.02	598.95	0.35	-0.330	0.000	0.324
15.00	-12.67	-2.73	0.00	-172.67	0.00	172.67	1046.46	277.95	613.74	573.49	0.78	-0.496	0.000	0.313
20.00	-12.05	-2.67	0.00	-159.03	0.00	159.03	1028.88	270.30	580.40	548.22	1.39	-0.663	0.000	0.302
25.00	-11.44	-2.60	0.00	-145.70	0.00	145.70	1010.66	262.64	547.99	523.15	2.17	-0.829	0.000	0.290
30.00	-10.85	-2.53	0.00	-132.70	0.00	132.70	991.80	254.99	516.51	498.31	3.13	-0.995	0.000	0.277
35.00	-10.26	-2.45	0.00	-120.05	0.00	120.05	972.31	247.33	485.96	473.74	4.26	-1.159	0.000	0.264
40.00	-9.69	-2.38	0.00	-107.78	0.00	107.78	952.17	239.67	456.34	449.45	5.56	-1.321	0.000	0.250
45.00	-9.13	-2.29	0.00	-95.91	0.00	95.91	931.41	232.02	427.65	425.49	7.03	-1.481	0.000	0.235
47.35	-8.87	-2.25	0.00	-90.53	0.00	90.53	921.43	228.42	414.49	414.35	7.78	-1.556	0.000	0.228
50.00	-8.44	-2.20	0.00	-84.57	0.00	84.57	910.00	224.36	399.89	401.88	8.67	-1.640	0.000	0.220
50.66	-8.33	-2.19	0.00	-83.12	0.00	83.12	918.20	227.27	410.32	410.80	8.89	-1.661	0.000	0.211
55.00	-7.86	-2.12	0.00	-73.61	0.00	73.61	899.32	220.62	386.67	390.49	10.47	-1.793	0.000	0.197
60.00	-7.33	-2.02	0.00	-63.03	0.00	63.03	876.96	212.97	360.30	367.45	12.42	-1.930	0.000	0.180
65.00	-6.82	-1.93	0.00	-52.91	0.00	52.91	853.97	205.31	334.87	344.84	14.51	-2.059	0.000	0.162
70.00	-6.31	-1.84	0.00	-43.26	0.00	43.26	830.35	197.66	310.36	322.68	16.73	-2.179	0.000	0.142
75.00	-5.83	-1.74	0.00	-34.09	0.00	34.09	804.33	190.00	286.78	300.34	19.07	-2.287	0.000	0.121
80.00	-5.35	-1.64	0.00	-25.39	0.00	25.39	771.92	182.34	264.14	276.51	21.52	-2.380	0.000	0.099
81.00	-5.35	-1.63	0.00	-23.75	0.00	23.75	765.44	180.81	259.72	271.86	22.02	-2.398	0.000	0.094
81.00	-5.35	-1.63	0.00	-23.75	0.00	23.75	565.49	169.65	16390.8	40.00	22.02	-2.398	0.000	0.603
85.00	-4.71	-1.51	0.00	-17.25	0.00	17.25	565.49	169.65	16390.8	40.00	24.05	-2.458	0.000	0.440
89.00	-3.08	-0.99	0.00	-11.19	0.00	11.19	565.49	169.65	16390.8	40.00	26.69	-3.745	0.000	0.285
90.00	-2.93	-0.95	0.00	-10.20	0.00	10.20	565.49	169.65	16390.8	40.00	27.50	-3.988	0.000	0.260
91.00	-2.62	-0.92	0.00	-9.25	0.00	9.25	565.49	169.65	16390.8	40.00	28.35	-4.208	0.000	0.236
91.00	-2.62	-0.92	0.00	-9.25	0.00	9.25	318.09	95.43	6914.87	16.88	28.35	-4.208	0.000	0.557
95.00	-2.20	-0.82	0.00	-5.58	0.00	5.58	318.09	95.43	6914.87	16.88	32.18	-4.880	0.000	0.338
99.00	-1.29	-0.40	0.00	-2.31	0.00	2.31	318.09	95.43	6914.87	16.88	36.80	-6.009	0.000	0.141
100.00	-1.20	-0.37	0.00	-1.91	0.00	1.91	318.09	95.43	6914.87	16.88	38.07	-6.160	0.000	0.117
101.00	-0.61	-0.28	0.00	-1.54	0.00	1.54	318.09	95.43	6914.87	16.88	39.37	-6.283	0.000	0.093
105.00	-0.24	-0.14	0.00	-0.40	0.00	0.40	318.09	95.43	6914.87	16.88	44.76	-6.561	0.000	0.025
106.00	-0.08	-0.09	0.00	-0.27	0.00	0.27	318.09	95.43	6914.87	16.88	46.14	-6.585	0.000	0.016
109.00	0.00	-0.08	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88	50.28	-6.614	0.000	0.000

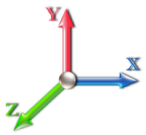
Seismic Segment Forces (Factored)

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.27	**Iterations**	30
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09	**Ss**	0.25
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**S1**	0.06
						Seismic Importance Factor	1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		419.06	2.50	22.43	0.02	
10.00		411.63	7.50	22.03	0.15	
15.00		404.21	12.50	21.63	0.39	
20.00		396.79	17.50	21.24	0.74	
25.00		389.37	22.50	20.84	1.17	
30.00		381.95	27.50	20.44	1.68	
35.00		374.52	32.50	20.04	2.25	
40.00		367.10	37.50	19.65	2.87	
45.00		359.68	42.50	19.25	3.54	
47.35	Bot - Section 2	166.49	46.17	8.91	0.90	
50.00		304.11	48.67	16.28	3.32	
50.66	Top - Section 1	75.09	50.33	4.02	0.22	
55.00		302.19	52.83	16.17	3.86	
60.00		341.21	57.50	18.26	5.81	
65.00		333.79	62.50	17.86	6.57	
70.00		326.37	67.50	17.47	7.32	
75.00		318.95	72.50	17.07	8.06	
80.00		311.52	77.50	16.67	8.78	
81.00	Top - Section 2	141.90	80.50	7.59	1.98	
85.00		275.87	83.00	14.76	7.90	
89.00	Appurtenance(s)	584.87	87.00	31.30	38.72	
90.00		61.48	89.50	3.29	0.46	
91.00	Top - Section 3	222.46	90.50	11.91	6.12	
95.00		171.09	93.00	9.16	3.83	
99.00	Appurtenance(s)	313.29	97.00	16.77	13.88	
100.00		33.41	99.50	1.79	0.17	
101.00	Appurtenance(s)	178.29	100.50	9.54	4.85	
105.00		133.65	103.00	7.15	2.87	
106.00	Appurtenance(s)	110.24	105.50	5.90	2.05	
109.00	Appurtenance(s)	136.55	107.50	7.31	3.26	
	Totals:	**8,347.2**		**446.7**	**143.7**	**Total Wind:** **5,505.3**

Calculated Forces

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H		1/27/2023
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 20

Tower Engineering Solutions

Load Case: 1.2D + 1.0Ev + 1.0Eh

Iterations 30

Gust Response Factor	1.10			**Sds**	0.27			**Ss**	0.25
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-10.26	-0.14	0.00	-12.19	0.00	12.19	1095.40	300.92	719.36	650.26		0.00	0.00	0.028
5.00	-9.76	-0.15	0.00	-11.47	0.00	11.47	1079.72	293.26	683.22	624.55		0.00	-0.01	0.027
10.00	-9.27	-0.15	0.00	-10.74	0.00	10.74	1063.41	285.61	648.02	598.95		0.02	-0.02	0.027
15.00	-8.79	-0.15	0.00	-10.00	0.00	10.00	1046.46	277.95	613.74	573.49		0.04	-0.03	0.026
20.00	-8.32	-0.15	0.00	-9.26	0.00	9.26	1028.88	270.30	580.40	548.22		0.08	-0.04	0.025
25.00	-7.85	-0.15	0.00	-8.52	0.00	8.52	1010.66	262.64	547.99	523.15		0.12	-0.05	0.024
30.00	-7.40	-0.15	0.00	-7.78	0.00	7.78	991.80	254.99	516.51	498.31		0.18	-0.06	0.023
35.00	-6.96	-0.15	0.00	-7.04	0.00	7.04	972.31	247.33	485.96	473.74		0.25	-0.07	0.022
40.00	-6.52	-0.14	0.00	-6.31	0.00	6.31	952.17	239.67	456.34	449.45		0.32	-0.08	0.021
45.00	-6.10	-0.14	0.00	-5.59	0.00	5.59	931.41	232.02	427.65	425.49		0.41	-0.09	0.020
47.35	-5.90	-0.14	0.00	-5.26	0.00	5.26	921.43	228.42	414.49	414.35		0.45	-0.09	0.019
50.00	-5.54	-0.14	0.00	-4.90	0.00	4.90	910.00	224.36	399.89	401.88		0.50	-0.10	0.018
50.66	-5.45	-0.14	0.00	-4.81	0.00	4.81	918.20	227.27	410.32	410.80		0.51	-0.10	0.018
55.00	-5.09	-0.13	0.00	-4.22	0.00	4.22	899.32	220.62	386.67	390.49		0.61	-0.10	0.016
60.00	-4.69	-0.13	0.00	-3.56	0.00	3.56	876.96	212.97	360.30	367.45		0.72	-0.11	0.015
65.00	-4.30	-0.12	0.00	-2.93	0.00	2.93	853.97	205.31	334.87	344.84		0.84	-0.12	0.014
70.00	-3.91	-0.11	0.00	-2.33	0.00	2.33	830.35	197.66	310.36	322.68		0.97	-0.13	0.012
75.00	-3.54	-0.10	0.00	-1.77	0.00	1.77	804.33	190.00	286.78	300.34		1.10	-0.13	0.010
80.00	-3.17	-0.09	0.00	-1.26	0.00	1.26	771.92	182.34	264.14	276.51		1.24	-0.14	0.009
81.00	-3.00	-0.09	0.00	-1.16	0.00	1.16	765.44	180.81	259.72	271.86		1.27	-0.14	0.008
81.00	-3.00	-0.09	0.00	-1.16	0.00	1.16	565.49	169.65	16390.8	40.00		1.27	-0.14	0.034
85.00	-2.62	-0.08	0.00	-0.80	0.00	0.80	565.49	169.65	16390.8	40.00		1.39	-0.14	0.025
89.00	-1.85	-0.04	0.00	-0.46	0.00	0.46	565.49	169.65	16390.8	40.00		1.53	-0.20	0.015
90.00	-1.77	-0.04	0.00	-0.42	0.00	0.42	565.49	169.65	16390.8	40.00		1.57	-0.21	0.014
91.00	-1.48	-0.04	0.00	-0.38	0.00	0.38	565.49	169.65	16390.8	40.00		1.62	-0.22	0.012
91.00	-1.48	-0.04	0.00	-0.38	0.00	0.38	318.09	95.43	6914.87	16.88		1.62	-0.22	0.027
95.00	-1.24	-0.03	0.00	-0.23	0.00	0.23	318.09	95.43	6914.87	16.88		1.81	-0.24	0.018
99.00	-0.83	-0.02	0.00	-0.10	0.00	0.10	318.09	95.43	6914.87	16.88		2.04	-0.29	0.008
100.00	-0.78	-0.02	0.00	-0.08	0.00	0.08	318.09	95.43	6914.87	16.88		2.10	-0.30	0.007
101.00	-0.54	-0.01	0.00	-0.06	0.00	0.06	318.09	95.43	6914.87	16.88		2.16	-0.30	0.006
105.00	-0.35	-0.01	0.00	-0.02	0.00	0.02	318.09	95.43	6914.87	16.88		2.42	-0.31	0.002
106.00	-0.20	0.00	0.00	-0.01	0.00	0.01	318.09	95.43	6914.87	16.88		2.49	-0.32	0.001
109.00	0.00	0.00	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88		2.69	-0.32	0.000

Seismic Segment Forces (Factored)

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 21	

IES Tower Engineering Solutions

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.27	**Iterations**	30
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09	**Ss**	0.25
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**S1**	0.06
						Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		386.30	2.50	20.67	0.02	
10.00		378.87	7.50	20.28	0.14	
15.00		371.45	12.50	19.88	0.38	
20.00		364.03	17.50	19.48	0.71	
25.00		356.61	22.50	19.09	1.13	
30.00		349.19	27.50	18.69	1.61	
35.00		341.76	32.50	18.29	2.15	
40.00		334.34	37.50	17.89	2.74	
45.00		326.92	42.50	17.50	3.36	
47.35	Bot - Section 2	151.09	46.17	8.09	0.85	
50.00		286.74	48.67	15.35	3.39	
50.66	Top - Section 1	70.77	50.33	3.79	0.22	
55.00		273.75	52.83	14.65	3.64	
60.00		308.45	57.50	16.51	5.46	
65.00		301.03	62.50	16.11	6.14	
70.00		293.61	67.50	15.71	6.81	
75.00		286.19	72.50	15.32	7.47	
80.00		278.76	77.50	14.92	8.09	
81.00	Top - Section 2	135.35	80.50	7.24	2.07	
85.00		249.67	83.00	13.36	7.45	
89.00	Appurtenance(s)	558.67	87.00	29.90	40.62	
90.00		56.80	89.50	3.04	0.45	
91.00	Top - Section 3	217.78	90.50	11.66	6.74	
95.00		152.37	93.00	8.15	3.50	
99.00	Appurtenance(s)	294.57	97.00	15.77	14.11	
100.00		31.07	99.50	1.66	0.17	
101.00	Appurtenance(s)	175.95	100.50	9.42	5.43	
105.00		124.29	103.00	6.65	2.86	
106.00	Appurtenance(s)	107.90	105.50	5.77	2.26	
109.00	Appurtenance(s)	136.55	107.50	7.31	3.75	
	Totals:	**7,700.9**		**412.1**	**143.7**	**Total Wind:** **5,505.3**

Calculated Forces

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

IES Tower Engineering Solutions

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.27			**Iterations**	30
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09			**Ss**	0.25
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04			**S1**	0.06
								Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-7.77	-0.14	0.00	-12.11	0.00	12.11	1095.40	300.92	719.36	650.26		0.00	0.00	0.026
5.00	-7.39	-0.15	0.00	-11.39	0.00	11.39	1079.72	293.26	683.22	624.55		0.00	-0.01	0.025
10.00	-7.02	-0.15	0.00	-10.67	0.00	10.67	1063.41	285.61	648.02	598.95		0.02	-0.02	0.024
15.00	-6.66	-0.15	0.00	-9.93	0.00	9.93	1046.46	277.95	613.74	573.49		0.04	-0.03	0.024
20.00	-6.30	-0.15	0.00	-9.20	0.00	9.20	1028.88	270.30	580.40	548.22		0.08	-0.04	0.023
25.00	-5.95	-0.15	0.00	-8.47	0.00	8.47	1010.66	262.64	547.99	523.15		0.12	-0.05	0.022
30.00	-5.61	-0.15	0.00	-7.73	0.00	7.73	991.80	254.99	516.51	498.31		0.18	-0.06	0.021
35.00	-5.27	-0.14	0.00	-7.00	0.00	7.00	972.31	247.33	485.96	473.74		0.24	-0.07	0.020
40.00	-4.94	-0.14	0.00	-6.29	0.00	6.29	952.17	239.67	456.34	449.45		0.32	-0.08	0.019
45.00	-4.62	-0.14	0.00	-5.58	0.00	5.58	931.41	232.02	427.65	425.49		0.40	-0.09	0.018
47.35	-4.47	-0.14	0.00	-5.25	0.00	5.25	921.43	228.42	414.49	414.35		0.45	-0.09	0.018
50.00	-4.19	-0.13	0.00	-4.89	0.00	4.89	910.00	224.36	399.89	401.88		0.50	-0.09	0.017
50.66	-4.12	-0.13	0.00	-4.80	0.00	4.80	918.20	227.27	410.32	410.80		0.51	-0.10	0.016
55.00	-3.85	-0.13	0.00	-4.22	0.00	4.22	899.32	220.62	386.67	390.49		0.60	-0.10	0.015
60.00	-3.55	-0.12	0.00	-3.57	0.00	3.57	876.96	212.97	360.30	367.45		0.71	-0.11	0.014
65.00	-3.25	-0.12	0.00	-2.94	0.00	2.94	853.97	205.31	334.87	344.84		0.84	-0.12	0.012
70.00	-2.96	-0.11	0.00	-2.35	0.00	2.35	830.35	197.66	310.36	322.68		0.96	-0.13	0.011
75.00	-2.68	-0.10	0.00	-1.79	0.00	1.79	804.33	190.00	286.78	300.34		1.10	-0.13	0.009
80.00	-2.41	-0.09	0.00	-1.27	0.00	1.27	771.92	182.34	264.14	276.51		1.24	-0.14	0.008
81.00	-2.28	-0.09	0.00	-1.18	0.00	1.18	765.44	180.81	259.72	271.86		1.27	-0.14	0.007
81.00	-2.28	-0.09	0.00	-1.18	0.00	1.18	565.49	169.65	16390.8	40.00		1.27	-0.14	0.033
85.00	-1.99	-0.09	0.00	-0.81	0.00	0.81	565.49	169.65	16390.8	40.00		1.38	-0.14	0.024
89.00	-1.41	-0.04	0.00	-0.47	0.00	0.47	565.49	169.65	16390.8	40.00		1.52	-0.20	0.014
90.00	-1.34	-0.04	0.00	-0.42	0.00	0.42	565.49	169.65	16390.8	40.00		1.57	-0.21	0.013
91.00	-1.12	-0.04	0.00	-0.38	0.00	0.38	565.49	169.65	16390.8	40.00		1.61	-0.22	0.011
91.00	-1.12	-0.04	0.00	-0.38	0.00	0.38	318.09	95.43	6914.87	16.88		1.61	-0.22	0.026
95.00	-0.94	-0.03	0.00	-0.23	0.00	0.23	318.09	95.43	6914.87	16.88		1.80	-0.24	0.017
99.00	-0.63	-0.02	0.00	-0.10	0.00	0.10	318.09	95.43	6914.87	16.88		2.03	-0.29	0.008
100.00	-0.59	-0.02	0.00	-0.08	0.00	0.08	318.09	95.43	6914.87	16.88		2.09	-0.30	0.007
101.00	-0.41	-0.01	0.00	-0.07	0.00	0.07	318.09	95.43	6914.87	16.88		2.16	-0.30	0.005
105.00	-0.26	-0.01	0.00	-0.02	0.00	0.02	318.09	95.43	6914.87	16.88		2.42	-0.32	0.002
106.00	-0.15	0.00	0.00	-0.01	0.00	0.01	318.09	95.43	6914.87	16.88		2.48	-0.32	0.001
109.00	0.00	0.00	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88		2.68	-0.32	0.000

Wind Loading - Shaft

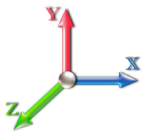
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 33

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	6.540	7.19	134.54	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.540	7.19	131.13	0.630	0.000	5.00	12.115	7.63	54.9	0.0	288.0
10.00		1.00	0.85	6.540	7.19	127.73	0.630	0.000	5.00	11.805	7.44	53.5	0.0	280.6
15.00		1.00	0.85	6.540	7.19	124.33	0.630	0.000	5.00	11.494	7.24	52.1	0.0	273.2
20.00		1.00	0.90	6.940	7.63	124.57	0.630	0.000	5.00	11.184	7.05	53.8	0.0	265.8
25.00		1.00	0.95	7.273	8.00	123.94	0.630	0.000	5.00	10.874	6.85	54.8	0.0	258.3
30.00		1.00	0.98	7.558	8.31	122.69	0.630	0.000	5.00	10.564	6.66	55.3	0.0	250.9
35.00		1.00	1.01	7.807	8.59	120.98	0.630	0.000	5.00	10.254	6.46	55.5	0.0	243.5
40.00		1.00	1.04	8.030	8.83	118.93	0.630	0.000	5.00	9.944	6.26	55.3	0.0	236.1
45.00		1.00	1.07	8.231	9.05	116.59	0.630	0.000	5.00	9.634	6.07	55.0	0.0	228.6
47.35	Bot - Section 2	1.00	1.08	8.320	9.15	115.42	0.630	0.000	2.35	4.421	2.79	25.5	0.0	104.9
50.00		1.00	1.09	8.416	9.26	114.04	0.630	0.000	2.65	4.987	3.14	29.1	0.0	234.7
50.66	Top - Section 1	1.00	1.10	8.439	9.28	113.68	0.630	0.000	0.66	1.228	0.77	7.2	0.0	57.8
55.00		1.00	1.12	8.587	9.45	113.28	0.630	0.000	4.34	7.943	5.00	47.3	0.0	188.4
60.00		1.00	1.14	8.745	9.62	110.39	0.630	0.000	5.00	8.862	5.58	53.7	0.0	210.2
65.00		1.00	1.16	8.894	9.78	107.36	0.630	0.000	5.00	8.552	5.39	52.7	0.0	202.8
70.00		1.00	1.17	9.034	9.94	104.21	0.630	0.000	5.00	8.242	5.19	51.6	0.0	195.3
75.00		1.00	1.19	9.166	10.08	100.94	0.630	0.000	5.00	7.931	5.00	50.4	0.0	187.9
80.00		1.00	1.21	9.291	10.22	97.58	0.630	0.000	5.00	7.621	4.80	49.1	0.0	180.5
81.00	Top - Section 2	1.00	1.21	9.316	10.25	96.89	0.630	0.000	1.00	1.487	0.94	9.6	0.0	35.2
85.00		1.00	1.22	9.411	10.35	235.65	0.450	0.000	4.00	14.333	6.45	66.8	0.0	216.9
89.00	Appurtenance(s)	1.00	1.23	9.502	10.45	236.79	0.450	0.000	4.00	14.333	6.45	67.4	0.0	216.9
90.00		1.00	1.24	9.525	10.48	237.07	0.450	0.000	1.00	3.583	1.61	16.9	0.0	54.2
91.00	Top - Section 3	1.00	1.24	9.547	10.50	237.35	0.450	0.000	1.00	3.583	1.61	16.9	0.0	54.2
95.00		1.00	1.25	9.634	10.60	166.34	0.450	0.000	4.00	10.000	4.50	47.7	0.0	128.2
99.00	Appurtenance(s)	1.00	1.26	9.718	10.69	167.07	0.450	0.000	4.00	10.000	4.50	48.1	0.0	128.2
100.00		1.00	1.27	9.738	10.71	167.24	0.450	0.000	1.00	2.500	1.13	12.1	0.0	32.1
101.00	Appurtenance(s)	1.00	1.27	9.759	10.73	167.42	0.450	0.000	1.00	2.500	1.13	12.1	0.0	32.1
105.00		1.00	1.28	9.839	10.82	168.11	0.450	0.000	4.00	10.000	4.50	48.7	0.0	128.2
106.00	Appurtenance(s)	1.00	1.28	9.858	10.84	168.27	0.450	0.000	1.00	2.500	1.13	12.2	0.0	32.1
109.00	Appurtenance(s)	1.00	1.29	9.917	10.91	168.77	0.450	0.000	3.00	7.500	3.38	36.8	0.0	96.2
								Totals:	**109.00**			**1,251.9**		**5,041.8**

Discrete Appurtenance Forces

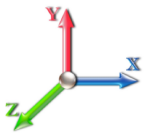
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 33

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	109.00	30" OD Canister	1	9.917	10.908	1.00	1.00	0.00	64.39	0.000	0.000	0.00	0.00	0.00
2	106.00	Commscope	3	9.858	10.844	1.00	1.00	0.00	5.40	0.000	0.000	0.00	0.00	0.00
3	106.00	Commscope VV-65A-R1	3	9.858	10.844	1.00	1.00	0.00	71.43	0.000	0.000	0.00	0.00	0.00
4	101.00	30" OD Canister	1	9.759	10.735	1.00	1.00	0.00	144.88	0.000	0.000	0.00	0.00	0.00
5	99.00	Commscope FVV-65B-R3	3	9.718	10.689	1.00	1.00	0.00	136.80	0.000	0.000	0.00	0.00	0.00
6	99.00	Commscope	3	9.718	10.689	1.00	1.00	0.00	5.40	0.000	0.000	0.00	0.00	0.00
7	91.00	30" OD Canister	1	9.547	10.502	1.00	1.00	0.00	160.98	0.000	0.000	0.00	0.00	0.00
8	89.00	HPA-65R-BUU-H6	3	9.502	10.453	1.00	1.00	0.00	153.00	0.000	0.000	0.00	0.00	0.00
9	89.00	TMABPD7823VG12A	6	9.502	10.453	0.00	1.00	0.00	156.00	0.000	0.000	0.00	0.00	0.00
10	81.00	30" OD Canister	1	9.316	10.247	1.00	1.00	0.00	80.49	0.000	0.000	0.00	0.00	0.00
							Totals:		**978.77**			**0.00**		

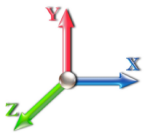
Total Applied Force Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 33

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		54.91	397.22	0.00	0.00
10.00		53.50	389.79	0.00	0.00
15.00		52.10	382.37	0.00	0.00
20.00		53.79	374.95	0.00	0.00
25.00		54.81	367.53	0.00	0.00
30.00		55.33	360.11	0.00	0.00
35.00		55.48	352.68	0.00	0.00
40.00		55.33	345.26	0.00	0.00
45.00		54.95	337.84	0.00	0.00
47.35		25.49	156.22	0.00	0.00
50.00		29.09	292.53	0.00	0.00
50.66		7.18	72.21	0.00	0.00
55.00		47.27	283.23	0.00	0.00
60.00		53.71	319.37	0.00	0.00
65.00		52.71	311.95	0.00	0.00
70.00		51.60	304.53	0.00	0.00
75.00		50.38	297.11	0.00	0.00
80.00		49.07	289.68	0.00	0.00
81.00	(1) attachments	9.60	137.54	0.00	0.00
85.00		66.77	304.27	0.00	0.00
89.00	(9) attachments	67.42	613.27	0.00	0.00
90.00		16.89	69.83	0.00	0.00
91.00	(1) attachments	16.93	230.81	0.00	0.00
95.00		47.69	190.61	0.00	0.00
99.00	(6) attachments	48.10	332.81	0.00	0.00
100.00		12.05	39.85	0.00	0.00
101.00	(1) attachments	12.08	184.73	0.00	0.00
105.00		48.70	159.41	0.00	0.00
106.00	(6) attachments	12.20	116.68	0.00	0.00
109.00	(1) attachments	36.82	160.55	0.00	0.00
	Totals:	**1,251.94**	**8,174.96**	**0.00**	**0.00**

Calculated Forces

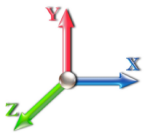
Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 26	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 33

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-8.17	-1.26	0.00	-76.92	0.00	76.92	1095.40	300.92	719.36	650.26	0.00	0.000	0.000	0.126
5.00	-7.78	-1.21	0.00	-70.64	0.00	70.64	1079.72	293.26	683.22	624.55	0.03	-0.058	0.000	0.120
10.00	-7.39	-1.16	0.00	-64.60	0.00	64.60	1063.41	285.61	648.02	598.95	0.12	-0.116	0.000	0.115
15.00	-7.00	-1.12	0.00	-58.79	0.00	58.79	1046.46	277.95	613.74	573.49	0.28	-0.173	0.000	0.109
20.00	-6.63	-1.07	0.00	-53.21	0.00	53.21	1028.88	270.30	580.40	548.22	0.49	-0.229	0.000	0.104
25.00	-6.26	-1.02	0.00	-47.87	0.00	47.87	1010.66	262.64	547.99	523.15	0.76	-0.285	0.000	0.098
30.00	-5.90	-0.97	0.00	-42.79	0.00	42.79	991.80	254.99	516.51	498.31	1.08	-0.339	0.000	0.092
35.00	-5.54	-0.91	0.00	-37.96	0.00	37.96	972.31	247.33	485.96	473.74	1.47	-0.391	0.000	0.086
40.00	-5.20	-0.86	0.00	-33.40	0.00	33.40	952.17	239.67	456.34	449.45	1.90	-0.442	0.000	0.080
45.00	-4.86	-0.80	0.00	-29.11	0.00	29.11	931.41	232.02	427.65	425.49	2.39	-0.491	0.000	0.074
47.35	-4.70	-0.78	0.00	-27.22	0.00	27.22	921.43	228.42	414.49	414.35	2.64	-0.514	0.000	0.071
50.00	-4.41	-0.75	0.00	-25.15	0.00	25.15	910.00	224.36	399.89	401.88	2.93	-0.539	0.000	0.067
50.66	-4.34	-0.74	0.00	-24.66	0.00	24.66	918.20	227.27	410.32	410.80	3.01	-0.545	0.000	0.065
55.00	-4.06	-0.70	0.00	-21.43	0.00	21.43	899.32	220.62	386.67	390.49	3.52	-0.584	0.000	0.059
60.00	-3.74	-0.64	0.00	-17.96	0.00	17.96	876.96	212.97	360.30	367.45	4.15	-0.623	0.000	0.053
65.00	-3.42	-0.59	0.00	-14.75	0.00	14.75	853.97	205.31	334.87	344.84	4.83	-0.660	0.000	0.047
70.00	-3.12	-0.53	0.00	-11.82	0.00	11.82	830.35	197.66	310.36	322.68	5.54	-0.693	0.000	0.040
75.00	-2.82	-0.48	0.00	-9.15	0.00	9.15	804.33	190.00	286.78	300.34	6.28	-0.722	0.000	0.034
80.00	-2.53	-0.43	0.00	-6.75	0.00	6.75	771.92	182.34	264.14	276.51	7.05	-0.747	0.000	0.028
81.00	-2.40	-0.42	0.00	-6.32	0.00	6.32	765.44	180.81	259.72	271.86	7.20	-0.752	0.000	0.026
81.00	-2.40	-0.42	0.00	-6.32	0.00	6.32	565.49	169.65	16390.8	40.00	7.20	-0.752	0.000	0.162
85.00	-2.09	-0.35	0.00	-4.65	0.00	4.65	565.49	169.65	16390.8	40.00	7.84	-0.768	0.000	0.120
89.00	-1.48	-0.28	0.00	-3.24	0.00	3.24	565.49	169.65	16390.8	40.00	8.64	-1.125	0.000	0.084
90.00	-1.41	-0.26	0.00	-2.95	0.00	2.95	565.49	169.65	16390.8	40.00	8.89	-1.195	0.000	0.076
91.00	-1.18	-0.25	0.00	-2.69	0.00	2.69	565.49	169.65	16390.8	40.00	9.14	-1.259	0.000	0.069
91.00	-1.18	-0.25	0.00	-2.69	0.00	2.69	318.09	95.43	6914.87	16.88	9.14	-1.259	0.000	0.163
95.00	-0.99	-0.20	0.00	-1.71	0.00	1.71	318.09	95.43	6914.87	16.88	10.29	-1.458	0.000	0.104
99.00	-0.66	-0.14	0.00	-0.91	0.00	0.91	318.09	95.43	6914.87	16.88	11.68	-1.833	0.000	0.056
100.00	-0.62	-0.13	0.00	-0.77	0.00	0.77	318.09	95.43	6914.87	16.88	12.07	-1.893	0.000	0.048
101.00	-0.43	-0.11	0.00	-0.64	0.00	0.64	318.09	95.43	6914.87	16.88	12.47	-1.943	0.000	0.039
105.00	-0.28	-0.06	0.00	-0.19	0.00	0.19	318.09	95.43	6914.87	16.88	14.16	-2.061	0.000	0.012
106.00	-0.16	-0.04	0.00	-0.13	0.00	0.13	318.09	95.43	6914.87	16.88	14.59	-2.073	0.000	0.008
109.00	0.00	-0.04	0.00	0.00	0.00	0.00	318.09	95.43	6914.87	16.88	15.90	-2.086	0.000	0.000

Final Analysis Summary

Structure:	CT40876-T-SBA	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Tower Engineering Solutions

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 116 mph Wind	5.5	0.00	9.80	0.00	0.00	341.20
0.9D + 1.0W 116 mph Wind	5.5	0.00	7.34	0.00	0.00	336.44
1.2D + 1.0Di + 1.0Wi 50 mph Wind	2.9	0.00	14.56	0.00	0.00	215.17
1.2D + 1.0Ev + 1.0Eh	0.1	0.00	10.26	0.00	0.00	12.19
0.9D + 1.0Ev + 1.0Eh	0.1	0.00	7.77	0.00	0.00	12.11
1.0D + 1.0W 60 mph Wind	1.3	0.00	8.17	0.00	0.00	76.92

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 116 mph Wind	-1.31	-1.10	0.00	-12.09	0.00	-12.09	565.49	169.65	16390.8	40.00	91.00	0.721
0.9D + 1.0W 116 mph Wind	-0.96	-1.06	0.00	-11.57	0.00	-11.57	565.49	169.65	16390.8	40.00	91.00	0.689
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-5.35	-1.63	0.00	-23.75	0.00	-23.75	765.44	180.81	259.72	271.86	81.00	0.603
1.2D + 1.0Ev + 1.0Eh	-3.00	-0.09	0.00	-1.16	0.00	-1.16	765.44	180.81	259.72	271.86	81.00	0.034
0.9D + 1.0Ev + 1.0Eh	-2.28	-0.09	0.00	-1.18	0.00	-1.18	765.44	180.81	259.72	271.86	81.00	0.033
1.0D + 1.0W 60 mph Wind	-1.18	-0.25	0.00	-2.69	0.00	-2.69	565.49	169.65	16390.8	40.00	91.00	0.163

Base Plate Summary

Structure:	CT40876-T-SB	**Code:**	TIA-222-H	1/27/2023	
Site Name:	CT389/New Canaan C C	**Exposure:**	C		
Height:	109.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	272.00
Axial (kip):	5.90
Shear (kip):	4.70
Analysis (1.2D + 1.0W)	
Moment (kip-ft):	341.20
Axial (kip):	9.80
Shear (kip):	5.53

Base Plate	
Yield (ksi):	50.00
Width (in):	36.00
Style:	Clipped
Polygon Sides:	4.00
Clip Length (in):	6.00
Effective Len (in):	17.21
Moment (kip-in):	382.80
Allow Stress (ksi):	67.50
Applied Stress (ksi):	43.88
Stress Ratio:	0.65

Anchor Bolts	
Bolt Circle:	35.50
Number Bolts:	4.00
Bolt Type:	1.75" #18J
Bolt Diameter (in):	1.75
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Radial
Cluster Dist (in):	6.00
Start Angle (deg):	45.00
Compression	
Force (kip):	117.79
Allowable (kip):	162.36
Ratio:	0.73
Tension	
Force (kip):	112.89
Allowable (kip):	142.50
Ratio:	0.79

Pier Foundation Design For Monopole

			Date: 1/27/2023
Customer Name:	**AT&T**	**EIA/TIA Standard:**	TIA-222-H
Site Name:		**Structure Height (Ft.):**	109
Site Number:	CT40876-T-SBA	**Engineer Name:**	J. Tibbetts
Engr. Number:	138033	**Engineer Login ID:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

Analysis or Design? Analysis

Acceptable overstress (5.0%

Base Reactions (Factored):

Axial Load (Kips):	9.8	Shear Force (Kips):	5.5
Uplift Force (Kips):	0.0	Moment (Kips-ft):	341.2

Foundation Geometries:

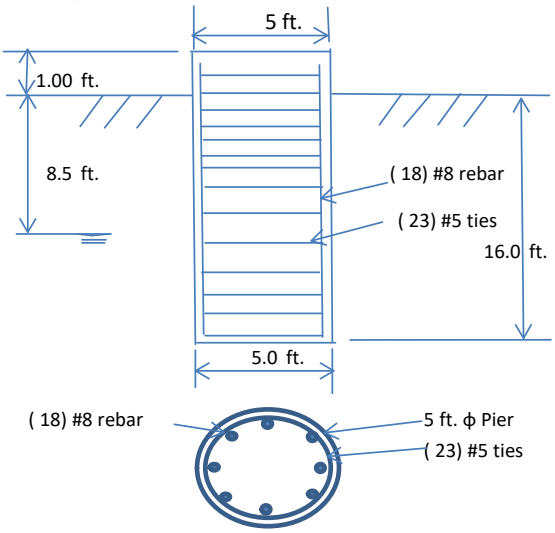
Diameter of Pier (ft.):	5.0	Depth of Base B. G. S. :	16.0	ft.
Pier Height A. G. (ft.):	1.00			

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	60	ksi
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	18	Tie Spacing:	12.0	in.
Concrete Cover (in.):	3	Concrete unit weight:	150.0	pcf

Soil Design Parameters:

Water Table B.G.S. (ft):	8.5	Unit weight of water:	62.4	psf
Ratio of Uplift/Axial Skin Friction:	1.0	Pullout failure Angle:	30	(°)
Skin Frictions are to be obtained from:		Soil Report		



Monopole Pier Foundation

Depth of Layers (ft) Top	Depth of Layers (ft) Bottom	γ_{soil} (pcf)	ϕ (°)	Cohesion (psf)	Ultimate Skin Friction (psf)	Ultimate Bearing (psf)	Soil Types
0.0	4.0	135	0	0	0	0	
4.0	17.0	135	32	0	1000	20000	Sand
17.0	22.0						

Soil weight Increase Factor for bouyant soils (1.0 to 1.15): 1.1

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Soil Bearing Strength Reduction Factor:	0.75	
Total Dry Soil Volume from Conical Failure (cu. Ft.):	2169	Dry Soil Weight from Conical Failure:	293	Kips
Total Buoyant Soil Volume from Conical Failure (cu. Ft.):	402	Buoyant Soil Weight from Conical Failure (Ki	14	Kips
Total Dry Concrete Volume (cu. Ft.):	187	Total Dry Concrete Weight:	28.0	Kips
Total Buoyant Concrete Volume (cu. Ft.):	147.3	Total Buoyant Concrete Weight:	12.90	Kips
Total Effective Concrete Weight (Kips):	40.9	Total Effective Soil Weight:	307.0	Kips
Total Effective Vertical Load on Base (Kips):	22.9			

Check Soil Capacities:

					Usage	
Allowable Foundation Overturning Resistance (kips-ft.):	1336.4	>	Design Factored Moment (kips-ft):	406	0.30	OK!
Factor of Safety of Passive Soil Resistance against Moment:	3.29	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75	
Strength reduction factor (Axial compresion):	0.65	Wind Load Factor on Concrete Design:	1.00	

Reinforcing Concrete Pier:

					Usage	
Vertical Steel Rebar Area (sq. in./each):	0.79		Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	1705.0	>	Design Factored Moment (Mu, K-Ft):	360.9	0.21	OK!
Calculated Shear Capacity (Kips):	562.8	>	Design Factored Shear (Kips):	59.5	0.11	OK!
Calculated Tension Capacity (Tn, Kips):	767.9	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	4974	>	Design Factored Axial Load (Pu Kips):	9.8	0.00	OK!
Moment & Axial Strength Combination:	0.21	OK!	Max. Allowable Tie/Stirrup Spacing:	12.00	in.	
Pier Reinforcement Ratio:	0.005		Reinforcement Ratio is too small			

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2018.

Information on the Property Records for the Municipality of New Canaan was last updated on 4/4/2023.

Property Summary Information

Parcel Data And Values | Building | Outbuildings | Sales | Permits

Parcel Information

Location:	95 COUNTRY CLUB RD	Property Use:	Special Purpose	Primary Use:	Country Club
Unique ID:	33 34 55	Map Block Lot:	33 34 55	Acres:	153.3500
490 Acres:	0.00	Zone:	4AC	Volume / Page:	0179/0405
Developers Map / Lot:	1469	Census:	00352		

Value Information

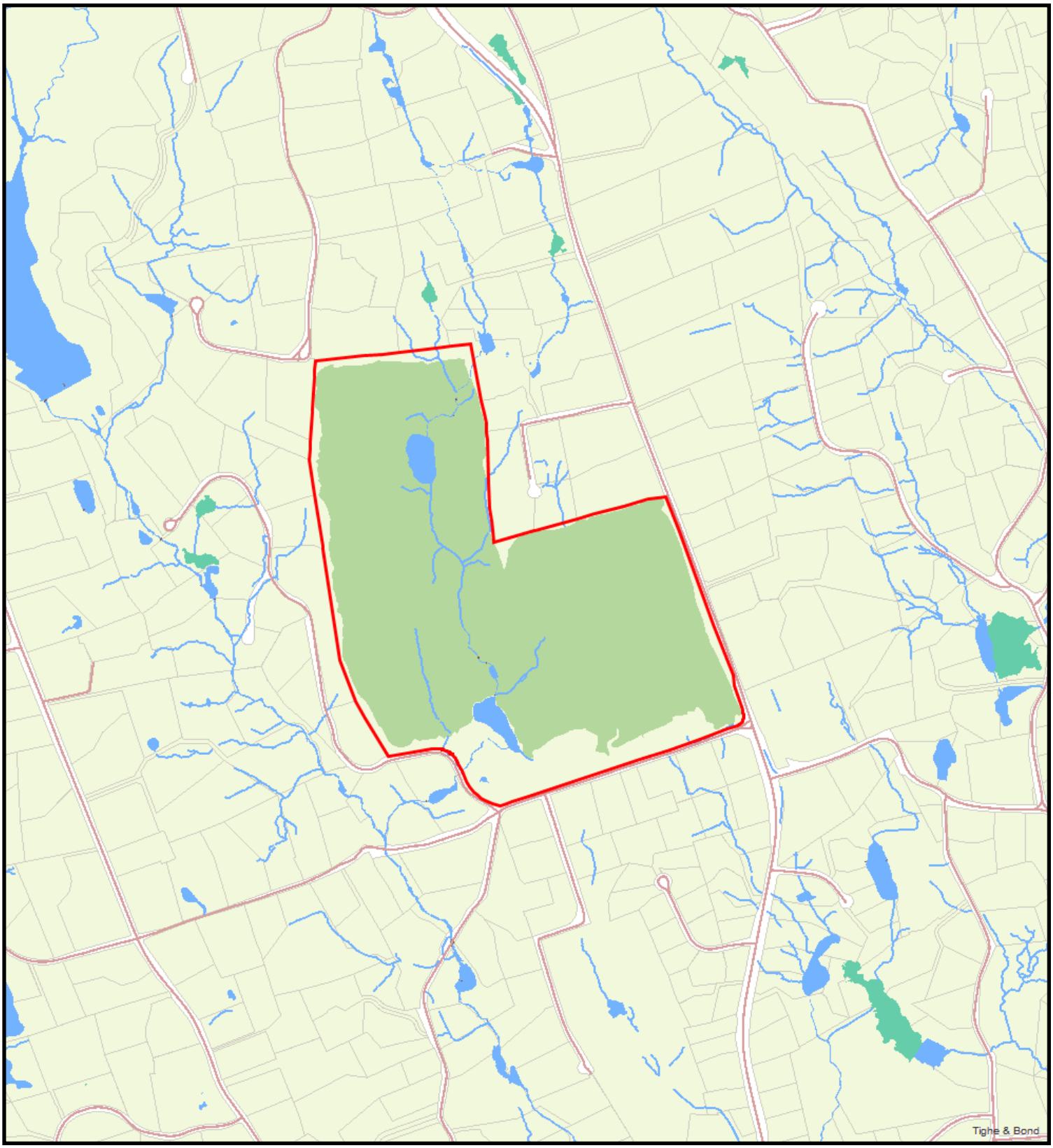
	Appraised Value	Assessed Value
Land	8,786,700	6,150,690
Buildings	12,710,200	8,897,140
Detached Outbuildings	8,162,200	5,534,340

	Appraised Value	Assessed Value
Total	29,659,100	20,582,170

Owner's Information

Owner's Data
COUNTRY CLUB OF N C 95 COUNTRY CLUB RD NEW CANAAN, CT 06840

Back To Search Download Print View



95 Country Club Road

4/4/2023 11:03:06 AM

Scale: 1"=1000'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

DOCKET NO. 244 - Omnipoint Facilities Network 2, L.L.C., a subsidiary of T-Mobile, USA, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at the New Canaan Country Club, 95 Country Club Road, New Canaan, Connecticut.	}	Connecticut Siting Council February 18, 2004

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Omnipoint Facilities Network 2, L.L.C., a subsidiary of T-Mobile, USA, Inc. for the construction, maintenance and operation of a wireless telecommunications facility 95 Country Club Road, New Canaan, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a silhouette structure, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of T-Mobile, AT&T Wireless and other entities, both public and private, but such tower shall not exceed a height of 110 feet above ground level. Antennas shall be installed on the inside of the silhouette structure and the Certificate Holder shall consult with the Town of New Canaan and the landowner to decide on the color of the structure.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:
    a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
    b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.

6. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

8. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, the Stamford Advocate, and The New Canaan Advertiser.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors in this proceeding are:

Applicant	**Its Representative**
Omnipoint Facilities Network 2, LLC A subsidiary of T-Mobile, USA, Inc.	Stephen J. Humes, Esq. LeBoeuf, Lamb, Greene & MacRae, LLP Goodwin Square 225 Asylum Street Hartford, CT 06103
Intervenor	**Its Representative**
AT&T Wireless PCS, LLC d/b/a AT&T Wireless	Christopher B. Fisher, Esq. Cuddy & Feder LLP 90 Maple Avenue White Plains, NY 10601-5196

Party	**Its Representative**
The Citizens for Responsible Cellular Planning	The Citizens for Responsible Cellular Planning c/o Ms. Diane Baldwin, Co-Chairperson 22 Wardwell Drive New Canaan, CT 06840
Party	**Its Representative**
John Corcoran and Wanda Corcoran James E. Lineberger and Harrietjo Lineberger	Alan R. Spirer, Esq. Spirer & Cott 830 Post Road East Westport, CT 06880
Party	**Its Representative**
Lewis D. Bakes 561 Smith Ridge Rd. New Canaan, CT 06840	
Party	**Its Representative**
The Town of New Canaan	John W. Cannavino, Esq. M. Juliet Bonazzoli, Esq. Cummings & Lockwood Four Stamford Plaza, P.O. Box 120 Stamford, CT 06904-0120
Party	**Its Representative**
Thomas A. Champion 579 Smith Ridge Road New Canaan, CT 06840	

SBA Communications Corporation
8051 Congress Avenue
Boca Raton, FL 33487-1307

T + 561.995.7670
F + 561.995.7626

sbasite.com

LETTER OF AUTHORIZATION

SBA Site ID: CT40876-T, CT389-New Canaan C C

Property Located at: 95 Country Club Road, New Canaan, CT, 06840

THE CITY/COUNTY OF: New Canaan / Fairfield/New Canaan

APPLICATION FOR ZONING/USE/BUILDING PERMIT

This letter authorizes AT&T and its authorized agents to file for all necessary zoning, planning and building permits (local, state and federal) for the purposes of installing, operating and maintaining a telecommunications facility on the existing tower on the property referenced above on behalf of The Country Club of New Canaan.

All approval conditions that may be granted to AT&T in connection with above referenced facility relating to this specific application are the sole responsibility of AT&T.

SBA Monarch Towers III, LLC

Jason Silberstein

Executive VP, Site Leasing

Date: 4/21/2023

USPS Tracking®

1st Selectman & Town Planner Copies FAQs >

Remove ×

Tracking Number:

9405503699300529010701

Copy Add to Informed Delivery (https://informeddelivery.usps.com/)

Expected Delivery by

THURSDAY

27 April 2023 ⓘ by **9:00pm** ⓘ

USPS is now in possession of your item as of 4:36 pm on April 25, 2023 in MERIDEN, CT 06450.

Feedback

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Out for Delivery

Preparing for Delivery

In Transit

Accepted

USPS in possession of item

MERIDEN, CT 06450
April 25, 2023, 4:36 pm

Pre-Shipment Info Sent to USPS, USPS Awaiting Item

April 21, 2023

Hollis Redding Tower Owner Copy

From: auto-reply@usps.com
Sent: Tuesday, April 25, 2023 4:52 PM
To: Hollis Redding
Subject: USPS® Expected Delivery by Friday, April 28, 2023 arriving by 9:00pm 9405503699300529010725

UNITED STATES POSTAL SERVICE®

Hello **HOLLIS M REDDING**,

USPS is now in possession of your item as of 4:36 pm on April 25, 2023 in MERIDEN, CT 06450.

Tracking Number: **9405503699300529010725**

Expected Delivery By

Fri
28
Apr

By 9:00pm

From: auto-reply@usps.com
Sent: Tuesday, April 25, 2023 4:54 PM
To: Hollis Redding
Subject: USPS® Expected Delivery by Thursday, April 27, 2023 arriving by 9:00pm 9405503699300529010718

UNITED STATES POSTAL SERVICE

Hello **HOLLIS M REDDING**,

USPS is now in possession of your item as of 4:36 pm on April 25, 2023 in MERIDEN, CT 06450.

Tracking Number: **9405503699300529010718**

Expected Delivery By

Thurs
27
Apr

By 9:00pm

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

P

usps.com
$9.95
US POSTAGE
Legal Flat Rt Env

9405 5036 9930 0529 0107 01 0099 5000 0020 6840

U.S. POSTAGE PAID
Click-N-Ship®

04/24/2023 Mailed from 03079 986759316518642

PRIORITY MAIL®

HOLLIS M REDDING
SAI GROUP
12 INDUSTRIAL WAY
SALEM NH 03079-2837

Expected Delivery Date: 04/26/23
Ref#: CT2282
0000

C011

KEVIN MOYNIHAN, 1ST SELECTMAN SARAH
NEW CANAAN TOWN HALL
77 MAIN ST
NEW CANAAN CT 06840-4710

USPS TRACKING #

9405 5036 9930 0529 0107 01

Electronic Rate Approved #038555749

Cut on dotted line.

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

P

usps.com
$9.65
US POSTAGE
Flat Rate Env

9405 5036 9930 0529 0107 18 0096 5000 0020 6840

U.S. POSTAGE PAID
Click-N-Ship®

04/24/2023 Mailed from 03079 986759316517525

PRIORITY MAIL®

HOLLIS M REDDING
SAI GROUP
12 INDUSTRIAL WAY
SALEM NH 03079-2837

Expected Delivery Date: 04/26/23
Ref#: CT2282
0000

C029

COUNTRY CLUB OF NC
95 COUNTRY CLUB RD
NEW CANAAN CT 06840-3106

USPS TRACKING #

9405 5036 9930 0529 0107 18

Electronic Rate Approved #038555749

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

P

usps.com
$9.65
US POSTAGE
Flat Rate Env

9405 5036 9930 0529 0107 25 0096 5000 0063 3487

U.S. POSTAGE PAID
Click-N-Ship®

04/24/2023 Mailed from 03079 986759316515939

PRIORITY MAIL®

HOLLIS M REDDING
SAI GROUP
12 INDUSTRIAL WAY
SALEM NH 03079-2837

Expected Delivery Date: 04/27/23
Ref#: CT2282

0000

C036

SBA COMMUNICATIONS CORP
8051 CONGRESS AVE
BOCA RATON FL 33487-1307

USPS TRACKING #

9405 5036 9930 0529 0107 25

Electronic Rate Approved #038555749

Cut on dotted line.

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

P

usps.com
$9.95
US POSTAGE
Legal Flat Rt Env

9405 5036 9930 0529 0107 32 0099 5000 0020 6051

U.S. POSTAGE PAID
Click-N-Ship®

04/24/2023 Mailed from 03079 986759316515100

PRIORITY MAIL®

HOLLIS M REDDING
SAI GROUP
12 INDUSTRIAL WAY
SALEM NH 03079-2837

Expected Delivery Date: 04/26/23

0000

C006

MELANIE BACHMAN EXECUTIVE DIRECTOR
CT SITING COUNCIL
10 FRANKLIN SQ
NEW BRITAIN CT 06051-2655

USPS TRACKING #

9405 5036 9930 0529 0107 32

Electronic Rate Approved #038555749