

May 5, 2022

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

Regarding: Notice of Exempt Modification – AT&T Site CT2120 / FA# 10035074
Address: 55 Walls Drive, Fairfield, CT 06824

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 22’ self-support tower on a +/- 50’ rooftop at the above-referenced address, latitude 41.1478250, longitude -73.2514711. Said tower is owned by Robert D. Scinto c/o RD Scinto, Inc.

AT&T desires to modify its existing telecommunications facility by swapping nine (9) antennas, adding three (3) antennas, swapping six (6) remote radio units (RRUS), and swapping three (3) surge arrestors and accompanying feedlines as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Group, LLC, last revised March 28, 2022. The centerline height of the existing antennas is and will remain at the 70’ foot level. This modification may include B2, B5, B17, B14, B29, B30, B66, & n77 hardware that is 4G(LTE) and/or 5G NR capable through remote software configuration and either or both services may be turned on or off at various times.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the following individuals: The Honorable Brenda L. Kupchick, First Selectwoman of the Town of Fairfield, as elected official. Matt Decker, Zoning Enforcement Officer and Jim Wendt, Planning Director of the Town of Fairfield. Robert D. Scinto c/o RD Scinto, Inc., property and tower owner.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*

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

6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated January 27, 2022, and prepared by Hudson Design Group, LLC, enclosed herewith.*

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

Sincerely,

Evan Renwick

Evan Renwick
Site Acquisition Specialist
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
erenwick@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Tower Structural Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Original Tower Approval
Exhibit 7 – Notice Delivery Confirmations

cc: The Brenda L. Kupchick, First Selectwoman, Town of Fairfield, elected official
Matt Decker, Zoning Enforcement Officer, Town of Fairfield
Jim Wendt, Planning Director, Town of Fairfield
Robert D. Scinto c/o RD Scinto, Inc., property and tower owner.

EXHIBIT 1

PROJECT INFORMATION

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

- NEW AT&T ANTENNAS: TPA-65R-BU6DA-K (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6449 N77D (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6419 N77G (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: DMP65R-BU6DA (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRU: 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRU: 4449 B5/B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SQUID: DC9-48-60-24-8C-EV (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- NEW AT&T (9) #6 AWG DC POWER TRUNKS & (3) 24 PAIR FIBER TRUNKS.
- NEW AT&T (3) Y-CABLES.

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

- ADD 6648 + XCEDE CABLE
- ADD 6630 + IDLE CABLE.
- NEW AT&T DC12 IN EXISTING POWER RACK.

ITEMS TO BE REMOVED:

- EXISTING AT&T UMS ANTENNA: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T LTE ANTENNA: HPA-65R-BUU-H6 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T LTE ANTENNA: 800-10798 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T SURGE ARRESTORS: (2) DC6-48-60-18-8F
- EXISTING AT&T SURGE: APTDC-BDFDM-DB (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T DIPLEXER: LGP21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T DIPLEXER: DBC0061F1V51-2 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T TMA: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T (4) DC POWER TRUNKS & (2) FIBER

ITEMS TO REMAIN:

- (9) RRU'S, (6) COAX CABLES,

SITE ADDRESS: 55 WALLS DRIVE
FAIRFIELD, CT 06824

LATITUDE: 41.1478250° N, 41° 8' 52.17" N

LONGITUDE: 73.2514711° W, 73° 15' 5.29" W

TYPE OF SITE: ROOF TOP / INDOOR EQUIPMENT

STRUCTURE HEIGHT: 50'-0"±

RAD CENTER: 70'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
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A-2	ANTENNA LAYOUT PLANS	1
A-3	ELEVATION	1
A-4	DETAILS	1
A-5	DETAILS	1
G-1	GROUNDING DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1



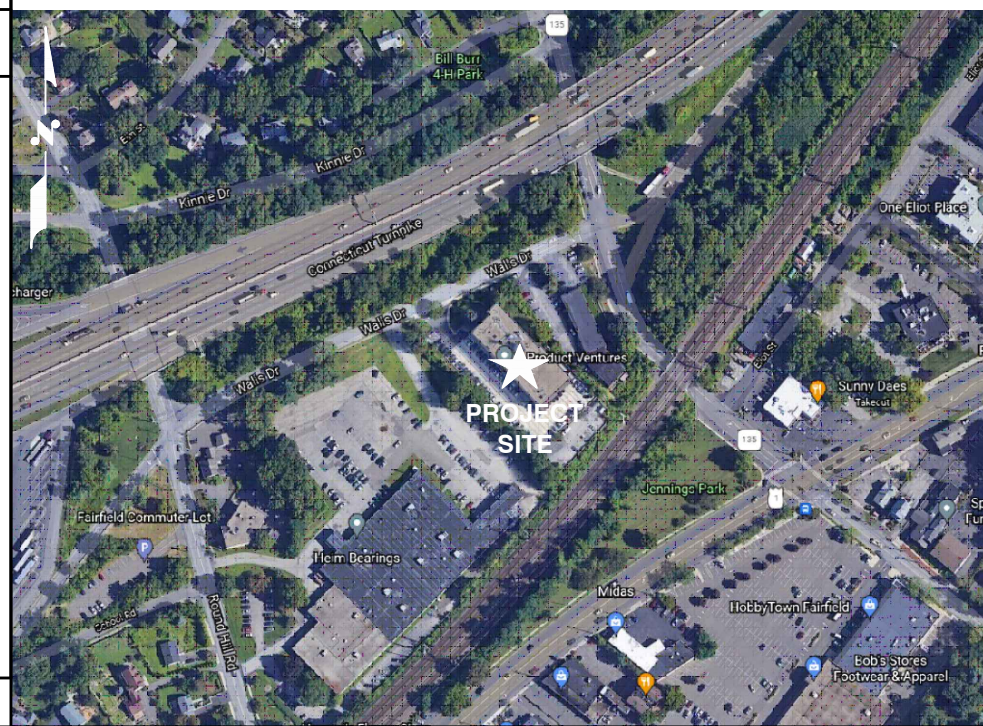
SITE NUMBER: CT2120
SITE NAME: FAIRFIELD CENTRAL
FA CODE: 10035074

**PACE ID: MRCTB052110, MRCTB050856, MRCTB051179, MRCTB050993,
MRCTB050953, MRCTB050871**
**PROJECT: 5G NR 1SR CBAND BBU UPGRADE, 4TXRX ANTENNA RETROFIT,
5G NR RADIO, 6C UPGRADE, 5G NR SOFTWARE UPGRADE**

VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING EAST ON ENTERPRISE DR TOWARD CAPITAL BLVD.TURN LEFT ONTO CAPITAL BLVD.TURN LEFT ONTO WEST ST.MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN.MERGE ONTO CT-15 S VIA EXIT 17 TOWARD E MAIN ST.MERGE ONTO CT-8 S VIA EXIT 52 TOWARD BRIDGEPORT.MERGE ONTO I-95 S TOWARD NY CITY.TAKE THE CT-135/N BENSON ROAD EXIT, EXIT 22.TURN LEFT ONTO N BENSON RD/CT-135.TAKE THE 1ST RIGHT ONTO KINNIE DR.TAKE THE 1ST LEFT ONTO ROUND HILL RD.TAKE THE 1ST LEFT ONTO WALLS DR.55 WALLS DR, FAIRFIELD, CT 06824-5139, 55 WALLS DR IS ON THE RIGHT.



GENERAL NOTES

- 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.
- 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.
- 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.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

72 HOURS



CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455

OR CALL 811

UNDERGROUND SERVICE ALERT

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

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

SITE NUMBER: CT2120
SITE NAME: FAIRFIELD CENTRAL

55 WALLS DRIVE
FAIRFIELD, CT 06824
FAIRFIELD COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP
1	03/28/22	ISSUED FOR CONSTRUCTION	MB	HC	MRK
A	12/16/21	ISSUED FOR REVIEW	MB	HC	MRK

SCALE: AS SHOWN DESIGNED BY: HC DRAWN BY: MRK

AT&T
TITLE SHEET
5G NR 1SR CBAND BBU UPGRADE, 4TXRX ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE 5G NR SOFTWARE UPGRADE

SITE NUMBER: CT2120 DRAWING NUMBER: T-1 REV: 1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR – CENTERLINE
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

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

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

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

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

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

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

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

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

**SITE NUMBER: CT2120
 SITE NAME: FAIRFIELD CENTRAL**

55 WALLS DRIVE
FAIRFIELD, CT 06824
FAIRFIELD COUNTY

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

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A	12/16/21	ISSUED FOR REVIEW	MB	HC	MRK
NO.	DATE	REVISIONS	BY	CHK	APP
SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: MRK		

AT&T

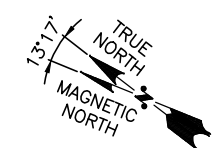
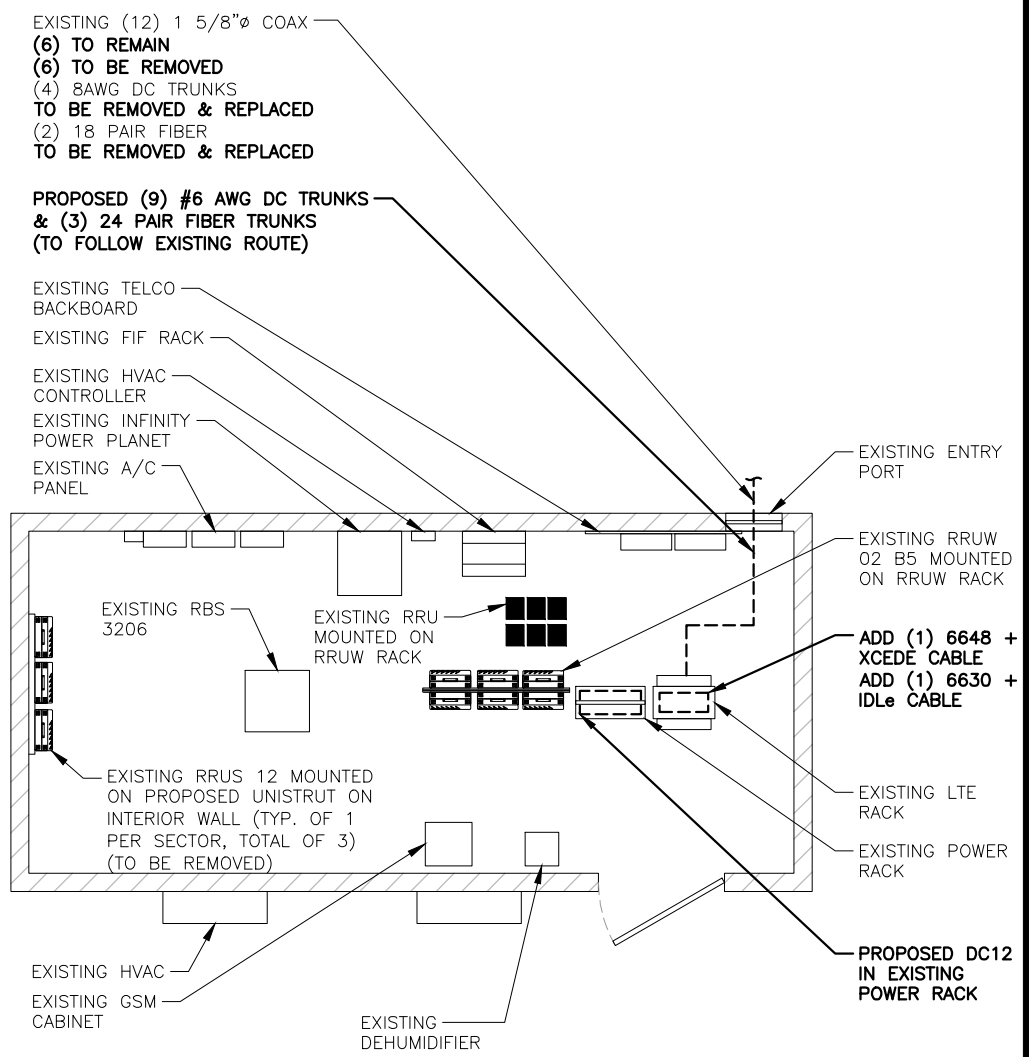
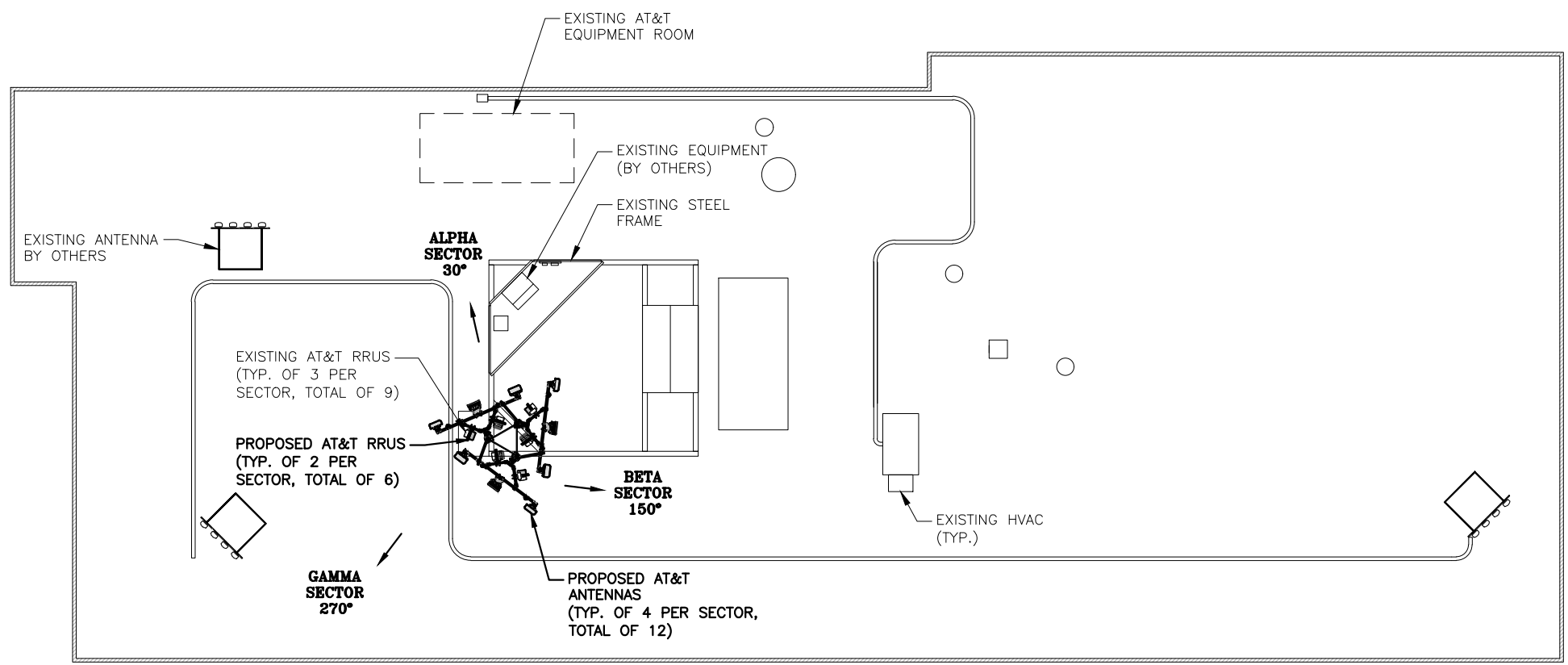
GENERAL NOTES
 5G NR 1SR CBAND BBU UPGRADE, 4TXRX
 ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE
 5G NR SOFTWARE UPGRADE

SITE NUMBER	DRAWING NUMBER	REV
CT2120	GN-1	1

NOTE:
REFER TO THE FINAL/APPROVED V3
RFDS DATED: 3/3/22 FOR FINAL
ANTENNA SETTINGS.

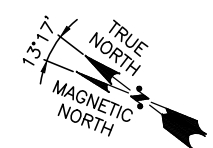
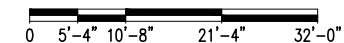
NOTE:
AN ANALYSIS FOR THE CAPACITY OF
THE EXISTING STRUCTURES TO
SUPPORT THE PROPOSED EQUIPMENT
HAS BEEN COMPLETED BY HUDSON
DESIGN GROUP LLC. DATED 01/27/22

1
A-3



ROOF PLAN
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

1
A-1



EQUIPMENT PLAN
22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

2



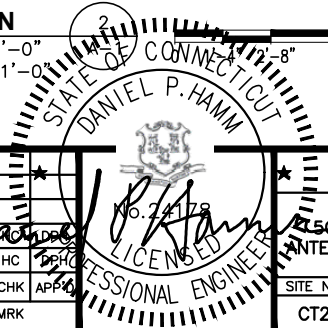
HGD HUDSON Design Group LLC
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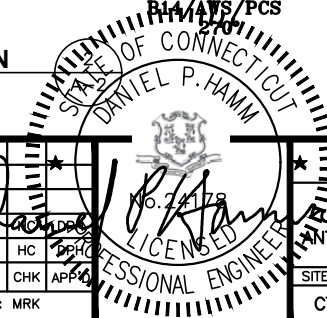
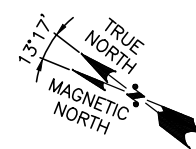
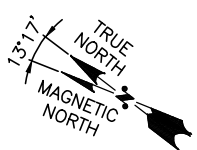
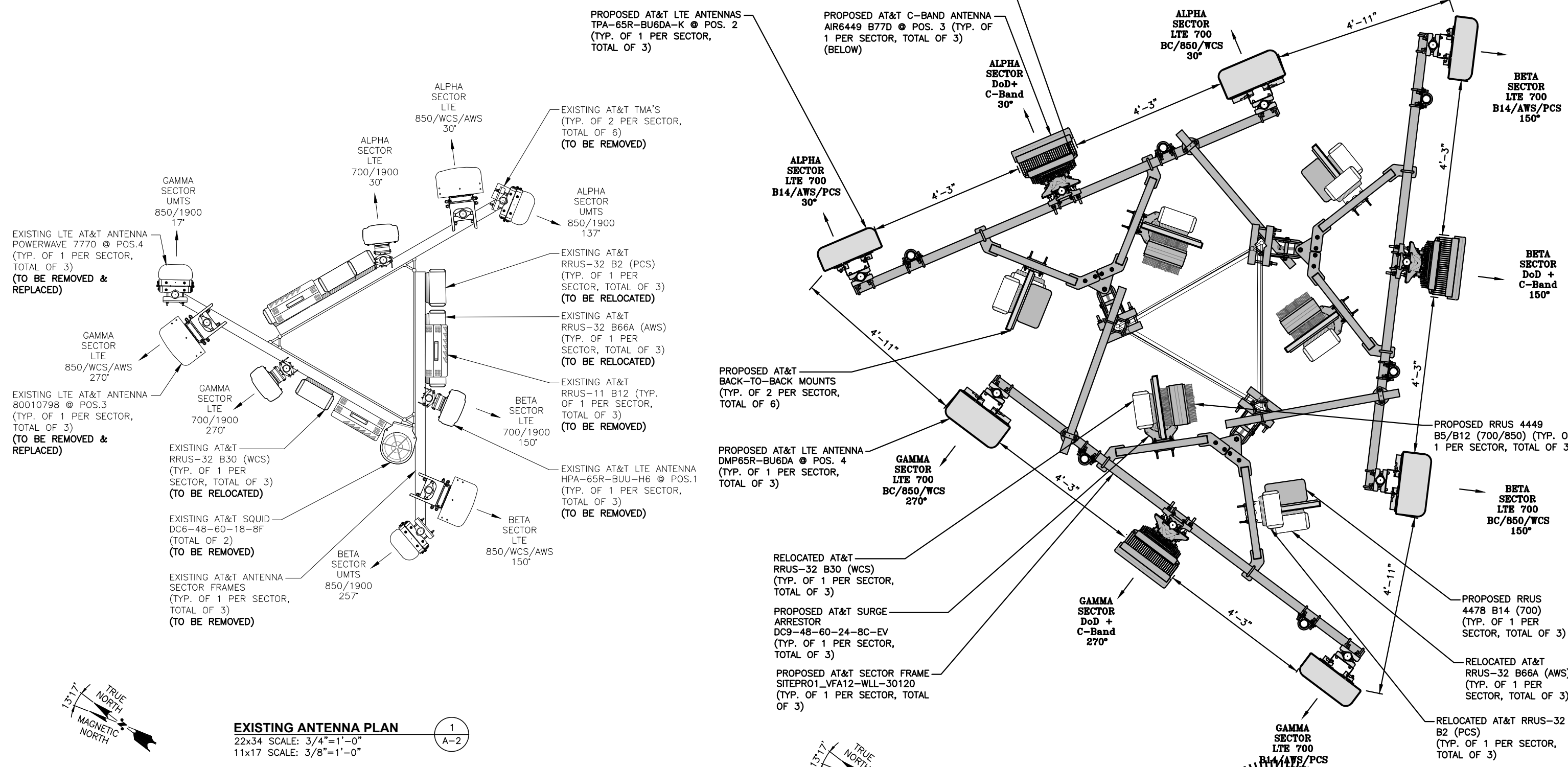
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AT&T
ROOFTOP & EQUIPMENT PLANS
5G NR 1SR CBAND BBU UPGRADE, 4TRX
ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE
5G NR SOFTWARE UPGRADE
SITE NUMBER: CT2120
DRAWING NUMBER: A-1
REV: 1

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT HAS BEEN COMPLETED BY HUDSON DESIGN GROUP LLC. DATED 01/27/22

NOTE:
REFER TO THE FINAL/APPROVED V3 RFDS DATED: 3/3/22 FOR FINAL ANTENNA SETTINGS.



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55 WALLS DRIVE FAIRFIELD, CT 06824 FAIRFIELD COUNTY

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

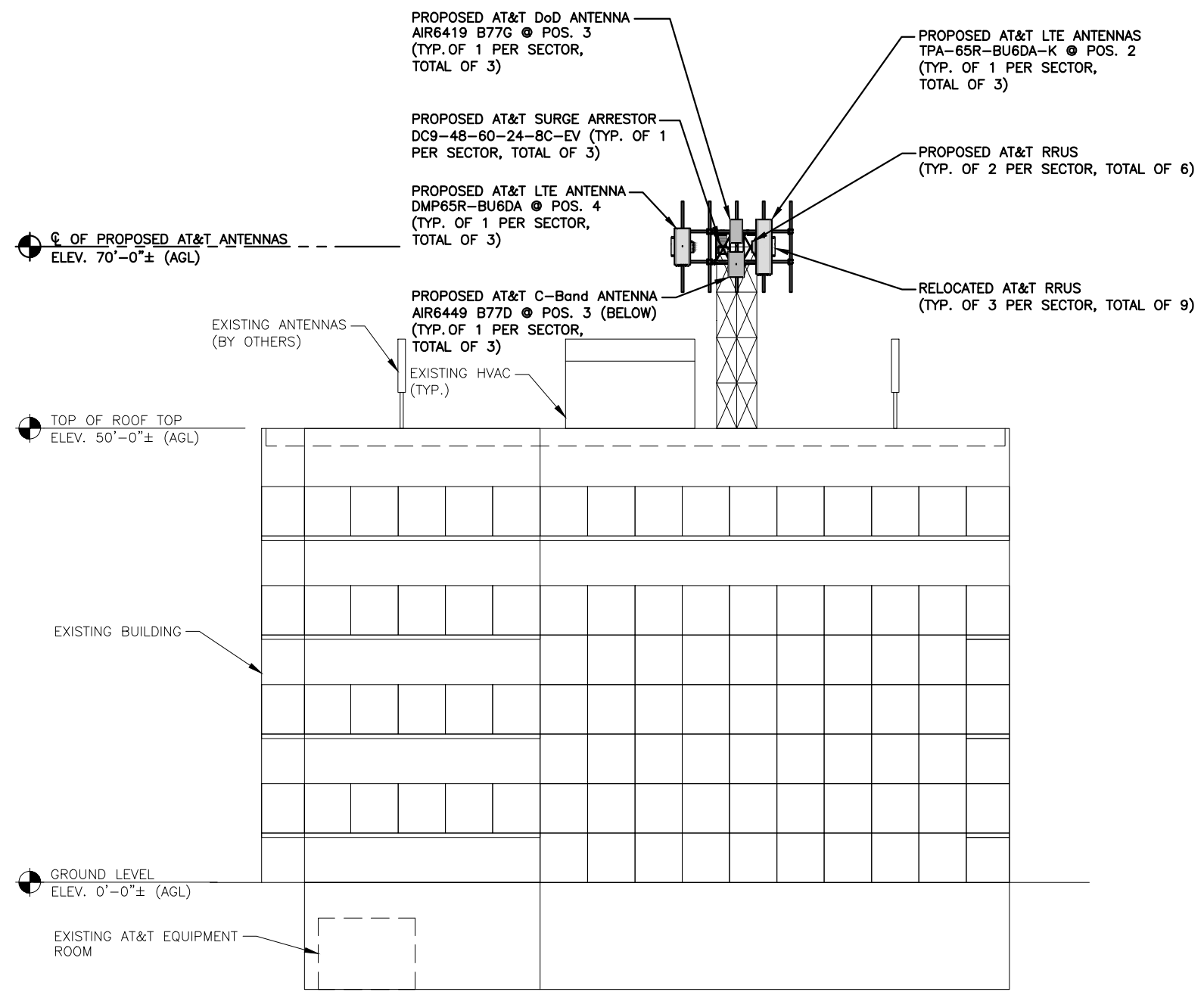
NO.	DATE	REVISIONS	BY	CHK	APP
1	03/28/22	ISSUED FOR CONSTRUCTION	MR	HC	MRK
A	12/16/21	ISSUED FOR REVIEW	MB	HC	MRK

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

AT&T	
EXISTING & PROPOSED ANTENNA PLAN	
L5G-NR 1SR CBAND BBU UPGRADE, 4TRX ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE 5G NR SOFTWARE UPGRADE	
SITE NUMBER	DRAWING NUMBER
CT2120	A-2
REV	
1	

NOTE:
REFER TO THE FINAL/APPROVED V3 RFDS DATED: 3/3/22 FOR FINAL ANTENNA SETTINGS.

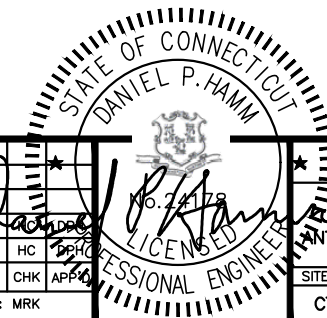
NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT HAS BEEN COMPLETED BY HUDSON DESIGN GROUP LLC. DATED 01/27/22



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

1
A-3

0 4'-0" 8'-0" 16'-0" 24'-0"



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

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

SITE NUMBER: CT2120
SITE NAME: FAIRFIELD CENTRAL
55 WALLS DRIVE
FAIRFIELD, CT 06824
FAIRFIELD COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP
1	03/28/22	ISSUED FOR CONSTRUCTION	MB	HC	DPH
A	12/16/21	ISSUED FOR REVIEW	MB	HC	DPH

SCALE: AS SHOWN DESIGNED BY: HC DRAWN BY: MRK

AT&T	
ELEVATION	
5G NR 1SR CBAND BBU UPGRADE, 4TRX ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE 5G NR SOFTWARE UPGRADE	
SITE NUMBER	DRAWING NUMBER
CT2120	A-3
REV	1

ANTENNA SCHEDULE

SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA Ø HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	-	-	-	-	-	-	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
A2	PROPOSED	LTE 700 B14/AWS/PCS	TPA-65R-BU6DA-K	71.2X20.7X7.7	70'-0"±	30°	-	(E)(1) RRUS-32 B2 (PCS) (E)(1) RRUS-32 B66A (AWS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	(P)(3) #6 AWG DC POWER & (P)(1) 24 PAIR FIBER	(P) (1) RAYCAP DC9-48-60-24-8C-EV
A3	PROPOSED	DOD+ CBAND	AIR6419 N77G+ AIR6449 N77D STACKED	31.1X16.1X7.3 30.4X15.9X8.1	70'-0"±	30°	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
A4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2X20.7X7.7	70'-0"±	30°	-	(P)(1) 4449 B5/B12 (850/700) (E)(1) RRUS-32 B30 (WCS)	17.9"x13.2"x10.4"	(P)(1) Y CABLE (2) 1-5/8 COAX	(P) (1) RAYCAP DC9-48-60-24-8C-EV
B1	-	-	-	-	-	-	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
B2	PROPOSED	LTE 700 B14/AWS/PCS	TPA-65R-BU6DA-K	71.2X20.7X7.7	70'-0"±	150°	-	(E)(1) RRUS-32 B2 (PCS) (E)(1) RRUS-32 B66A (AWS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	(P)(3) #6 AWG DC POWER & (P)(1) 24 PAIR FIBER	(P) (1) RAYCAP DC9-48-60-24-8C-EV
B3	PROPOSED	DOD+ CBAND	AIR6419 N77G+ AIR6449 N77D STACKED	31.1X16.1X7.3 30.4X15.9X8.1	70'-0"±	150°	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
B4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2X20.7X7.7	70'-0"±	150°	-	(P)(1) 4449 B5/B12 (850/700) (E)(1) RRUS-32 B30 (WCS)	17.9"x13.2"x10.4"	(P)(1) Y CABLE (2) 1-5/8 COAX	(P) (1) RAYCAP DC9-48-60-24-8C-EV
C1	-	-	-	-	-	-	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
C2	PROPOSED	LTE 700 B14/AWS/PCS	TPA-65R-BU6DA-K	71.2X20.7X7.7	70'-0"±	270°	-	(E)(1) RRUS-32 B2 (PCS) (E)(1) RRUS-32 B66A (AWS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	(P)(3) #6 AWG DC POWER & (P)(1) 24 PAIR FIBER	(P) (1) RAYCAP DC9-48-60-24-8C-EV
C3	PROPOSED	DOD+ CBAND	AIR6419 N77G+ AIR6449 N77D STACKED	31.1X16.1X7.3 30.4X15.9X8.1	70'-0"±	270°	-	-	-	-	(P) (1) RAYCAP DC9-48-60-24-8C-EV
C4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2X20.7X7.7	70'-0"±	270°	-	(P)(1) 4449 B5/B12 (850/700) (E)(1) RRUS-32 B30 (WCS)	17.9"x13.2"x10.4"	(P)(1) Y CABLE (2) 1-5/8 COAX	(P) (1) RAYCAP DC9-48-60-24-8C-EV

RRU CHART

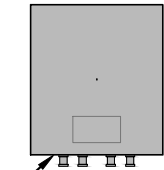
QUANTITY	MODEL	SIZE (L x W x D)
3(E)	RRUS-32 B2 (PCS)	27.2"x12.1"x7.0"
3(E)	RRUS-32 B66A (AWS)	27.2"x12.1"x7.0"
3(P)	4478 B14 (700)	18.1"x13.4"x8.3"
3(E)	RRUS-32 B30 (WCS)	27.2"x12.1"x7.0"
3(P)	4449 B5/B12 (850/700)	17.9"x13.2"x10.4"

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT HAS BEEN COMPLETED BY HUDSON DESIGN GROUP LLC. DATED 01/27/22

NOTE:
REFER TO THE FINAL/APPROVED V3 RFDS DATED: 3/3/22 FOR FINAL ANTENNA SETTINGS.

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

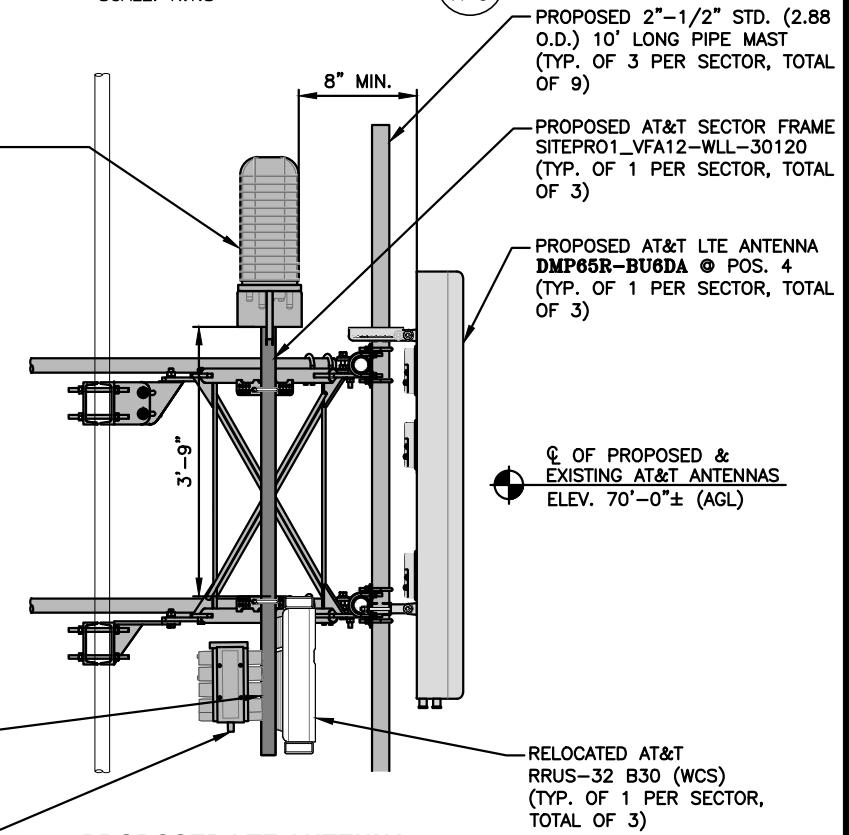
NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER



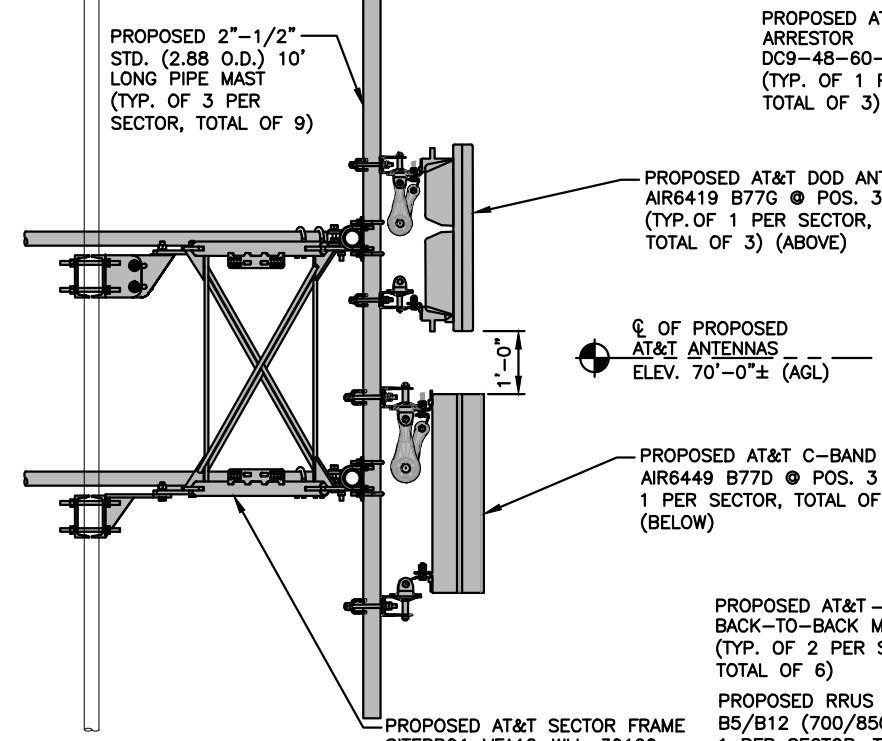
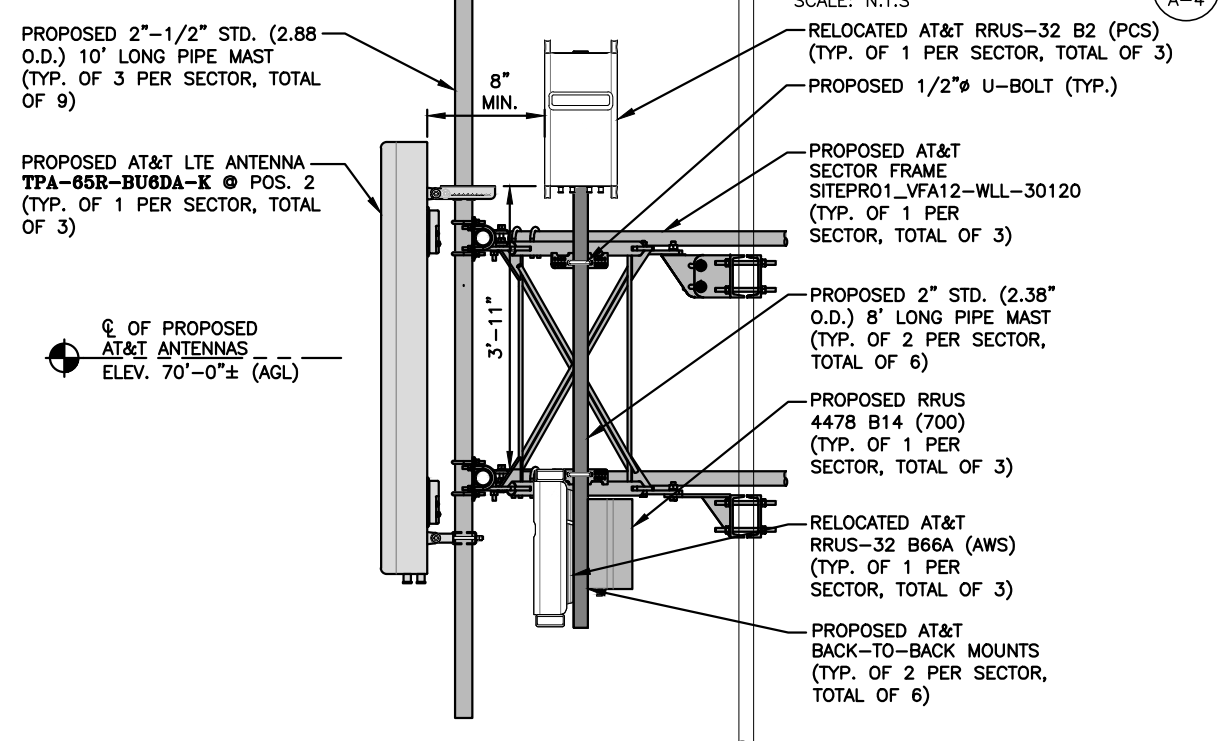
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

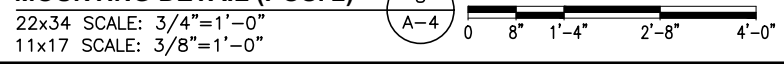
PROPOSED RRUS DETAIL
SCALE: N.T.S



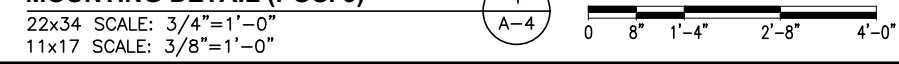
FINAL ANTENNA SCHEDULE
SCALE: N.T.S



PROPOSED LTE ANTENNA MOUNTING DETAIL (POS. 2)



PROPOSED DoD & C-BAND ANTENNA MOUNTING DETAIL (POS. 3)



PROPOSED LTE ANTENNA MOUNTING DETAIL (POS. 4)



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

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

SITE NUMBER: CT2120
SITE NAME: FAIRFIELD CENTRAL
55 WALLS DRIVE
FAIRFIELD, CT 06824
FAIRFIELD COUNTY

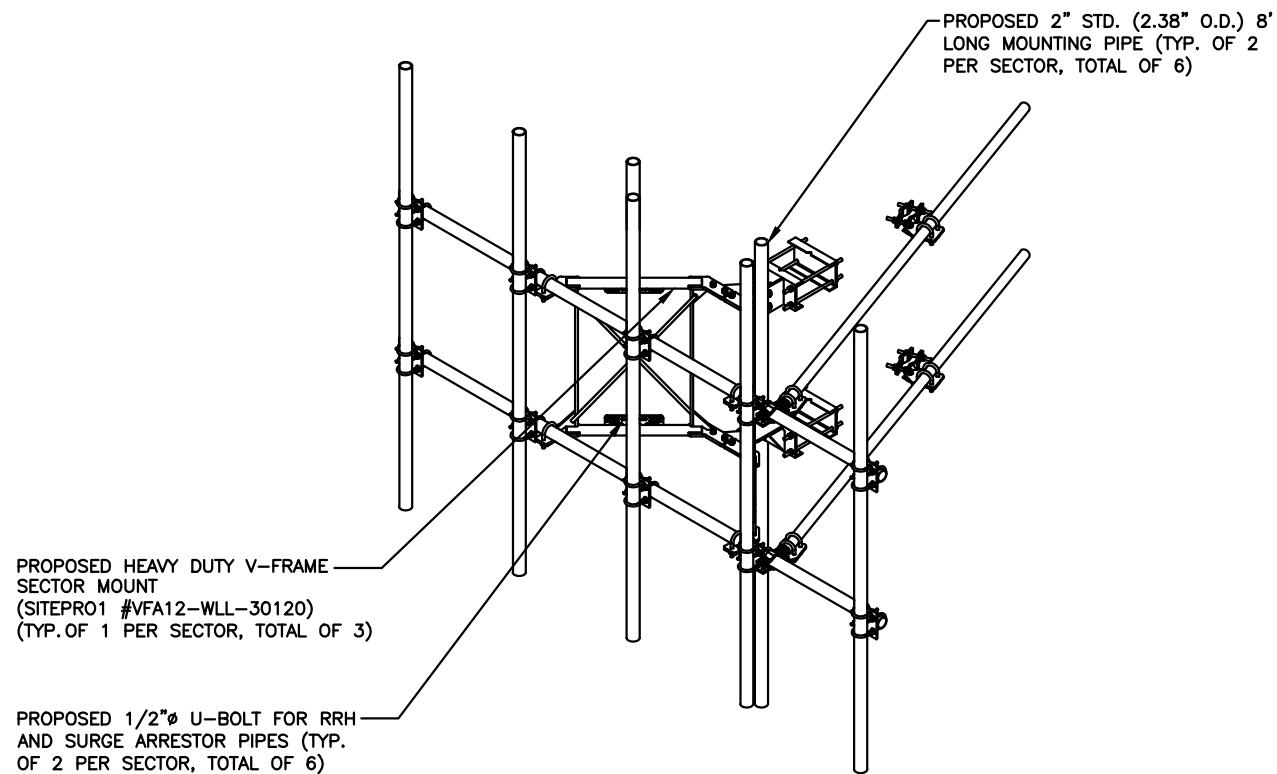
at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

PROFESSIONAL ENGINEER
No. 24178
SCALE: AS SHOWN
DESIGNED BY: HC
DRAWN BY: MRK

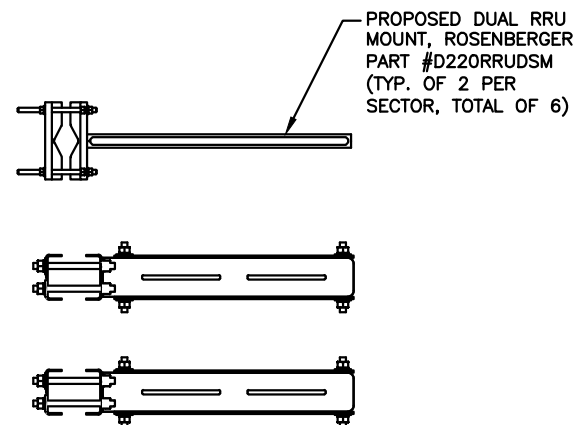
AT&T DETAILS
5G NR 1SR CBAND BBU UPGRADE, 4TXRX ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE 5G NR SOFTWARE UPGRADE
SITE NUMBER: CT2120
DRAWING NUMBER: A-4
REV: 1

NOTE:
REFER TO THE FINAL/APPROVED V3
RFDS DATED: 3/3/22 FOR FINAL
ANTENNA SETTINGS.

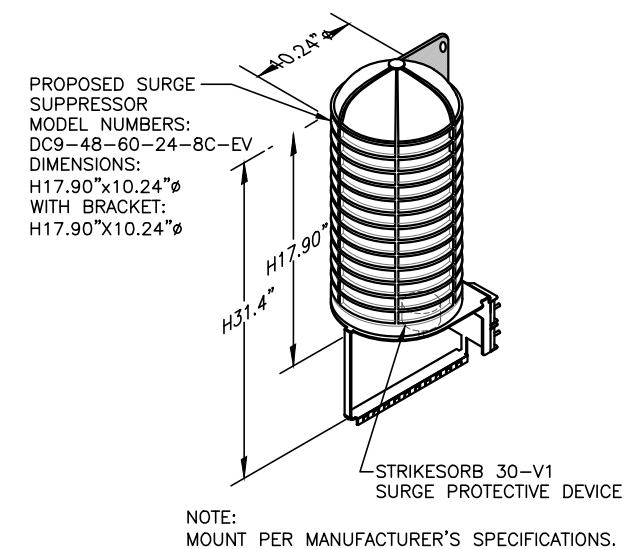
NOTE:
AN ANALYSIS FOR THE CAPACITY OF
THE EXISTING STRUCTURES TO
SUPPORT THE PROPOSED EQUIPMENT
HAS BEEN COMPLETED BY HUDSON
DESIGN GROUP LLC. DATED 01/27/22



PROPOSED MOUNT (SITEPRO-1 #VFA12-WLL-30120) DETAIL 1
SCALE: N.T.S. A-5

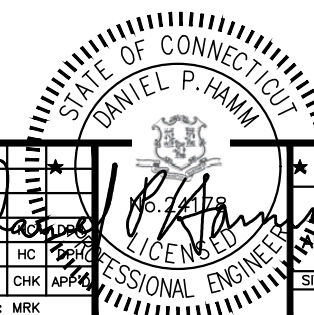


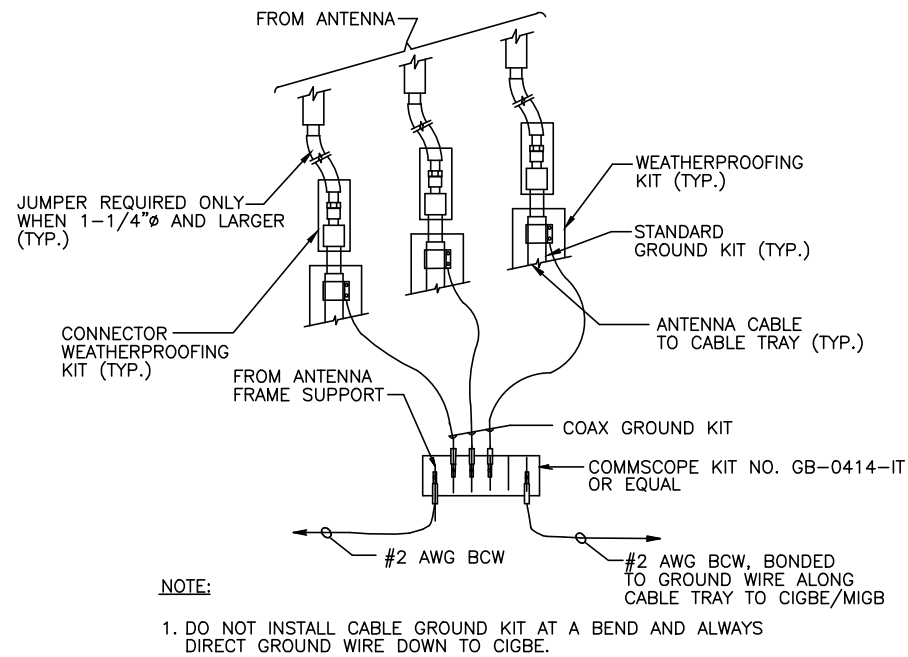
BACK TO BACK RRU MOUNT DETAIL 2
SCALE: N.T.S. A-5



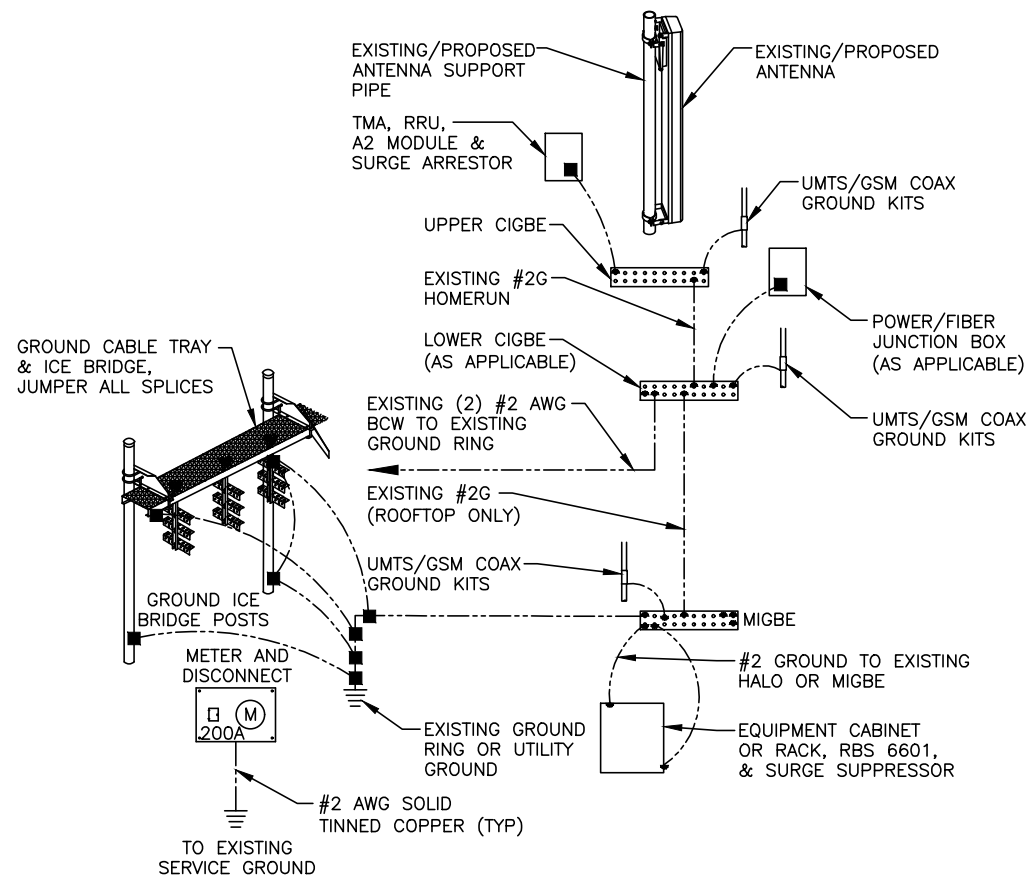
DC SURGE SUPPRESSOR DETAIL 3
SCALE: N.T.S. A-5

1	03/28/22	ISSUED FOR CONSTRUCTION	MB	HC	MRK
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SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: MRK		

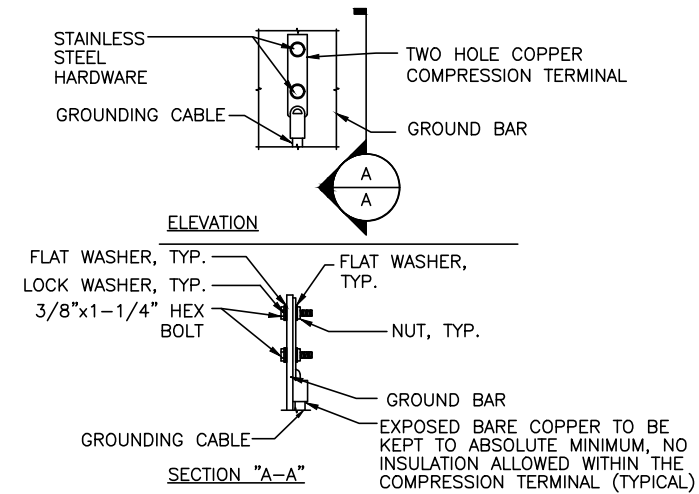




GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



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



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

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

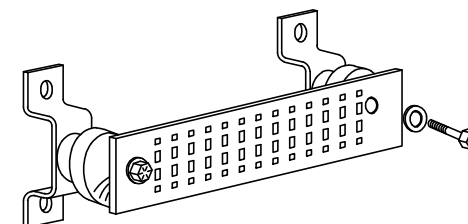
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

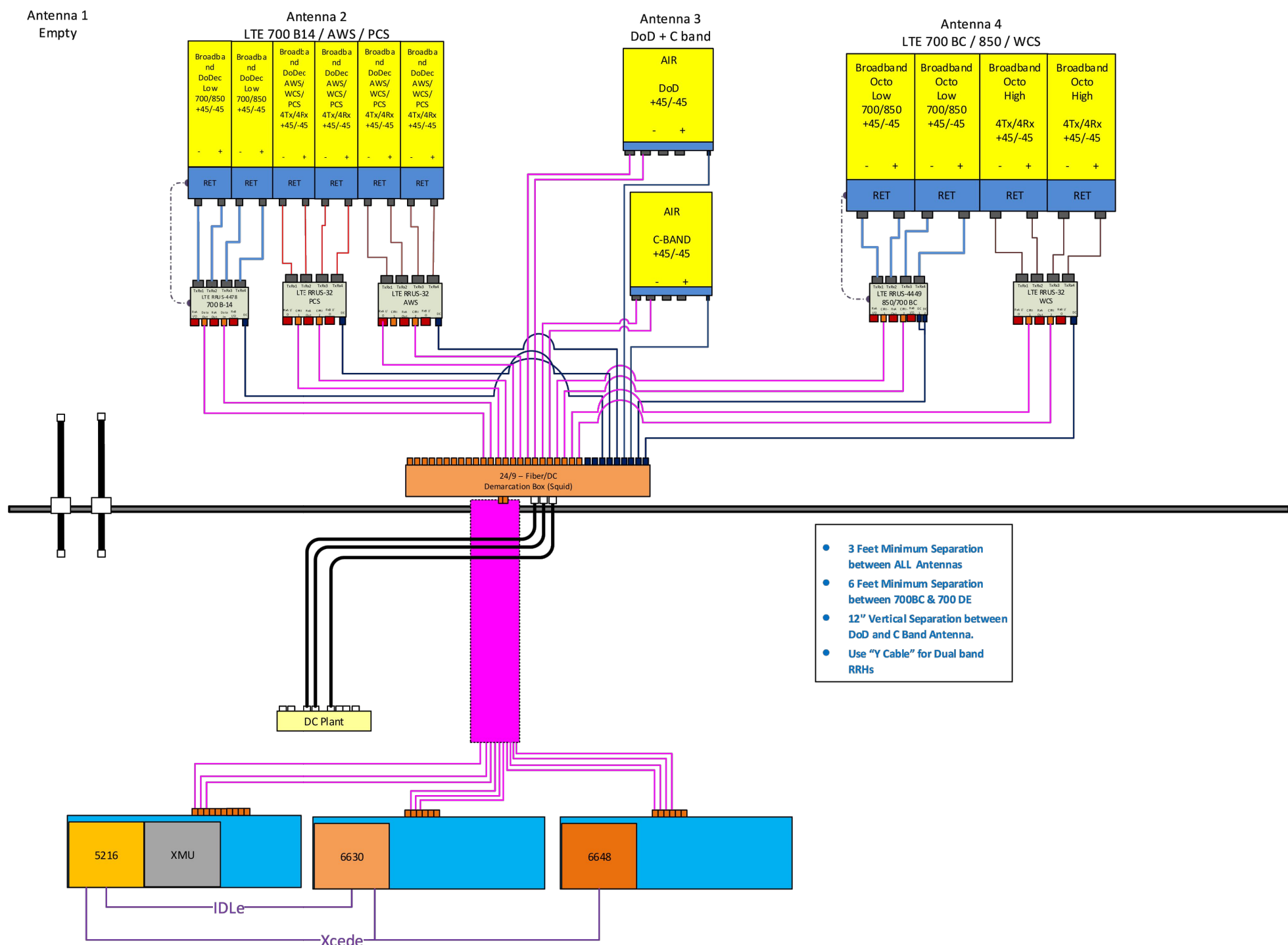
- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

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



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



- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

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

NOTE:
 REFER TO THE FINAL/APPROVED V3 RFDS DATED: 3/3/22 FOR FINAL ANTENNA SETTINGS.

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

1	03/28/22	ISSUED FOR CONSTRUCTION	MB	HC	DPH
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: MRK		

AT&T		
RF PLUMBING DIAGRAM		
5G NR 1SR CBAND BBU UPGRADE, 4TXRX ANTENNA RETROFIT, 5G NR RADIO, 6C UPGRADE 5G NR SOFTWARE UPGRADE		
SITE NUMBER	DRAWING NUMBER	REV
CT2120	RF-1	1

EXHIBIT 2

CURRENT OWNER				TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT					
55 WALLS DRIVE LLC				1 Level	1 All Public	1 Paved	4 Bus. District	Description	Code	Appraised	Assessed	6051 FAIRFIELD, CT	
C/O R D SCINTO INC				4 Rolling			X	COM LAND	2-1	1,451,200	1,015,840		
ONE CORPORATE DRIVE							K	COM BLDG	2-2	8,949,000	6,264,300		
				SUPPLEMENTAL DATA				COM OUTBL	2-5	247,000	172,900	VISION	
SHELTON CT 06484				Alt Prcl ID 00141 00097 00000			Legal 1,3,4,2R						
				Assoc. +PVT ST.			Descrpt DAWID						
				Lots I&E SuppF			Record Ma Multi Fam						
				Notice Census 615			Assoc Pid#						
				GIS ID 1410970000							Total	10,647,200	7,453,040

RECORD OF OWNERSHIP				BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)								
55 WALLS DRIVE LLC				2909 0115	06-02-2003	U	I	0		Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
SCINTO ROBERT D				0826 0146	12-02-1987			2,358,300		2020	2-1	1,015,840	2020	2-1	1,015,840	2019	2-1	967,540
											2-2	6,264,300		2-2	6,264,300		2-2	6,178,340
											2-5	172,900		2-5	172,900		2-5	162,960
										Total	7453040	Total	7453040	Total	7308840			

EXEMPTIONS				OTHER ASSESSMENTS				This signature acknowledges a visit by a Data Collector or Assessor										
Year	Code	Description	Amount	Code	Description	Number	Amount	Comm Int										
			Total	0.00														

ASSESSING NEIGHBORHOOD				APPRAISED VALUE SUMMARY										
Nbhd	Nbhd Name	B	Tracing	Batch										
0020														
NOTES														
1ST FLR-OFF-3 & CAFETERIA 2ND FLR-OFF-4,				C/O 3/27/12 146956 RELO 3 ANT.& ADD 3										
3RD-OFF-4,4TH FLR-OFF-2 PAV2-UPPER LEVEL				ANT.& RADIO HEADS (NOTE: P.P.) *										
PARKING100% SPR1-INCL-P SFB-LOWER ENTRC				10/22/12 C/O 146407 148039 ALT(OLD WORK)										
ELEV=5 STPS,125FPM,P 1=5000#,1=4000.				C/O'S 151140 & 151141 2ND FLR RENO-*N/C										
11/96 COURT RED 93+LISTS ECO= I-95 & R/R				159561/159495/159426 COMP 10/1/19 NC										
C/O 10/20/11 147043 INT ALT (NOTE P.P.) *														
				Total Appraised Parcel Value 10,647,200										

BUILDING PERMIT RECORD									VISIT / CHANGE HISTORY					
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpost/Result
161003	08-04-2020	CM		20,000	10-01-2020	100	10-01-2020	**T MOBILE**ADD 6 ANTENN	10-01-2019	KBC			44	No Change - Reinspection/
159561	09-05-2019	CP		32,000	10-01-2019	100	10-01-2019	**FOUNDATION SOURCE**2	04-09-2018	KC			40	No change
159495	08-22-2019	CC		20,000	10-01-2019	100	10-01-2019	**T MOBILE**SWAP 6 ANTEN	04-09-2018	KC			40	No change
159426	08-06-2019	RE		2,325	10-01-2019	100	10-01-2019	**ACME UNITED**BUILD 1 O	04-18-2017	JP			40	No change
156429	11-27-2017	CM		25,000	04-09-2018	100	04-09-2018	**AT & T**REPL 3 RADIO ANT	09-15-2015	JW			22	Bldg Permit Listed
156160	10-02-2017	RE		65,550	04-09-2018	100	11-08-2017	INT FIT-UP-CTR FOR PEDIAT	04-30-2015	KC			40	No change
154687	11-02-2016	RE	Remodel	38,000	04-18-2017	100	12-14-2016	INT ALTS-ACME UNITED	01-14-2015	ES			00	Measur+Listed

LAND LINE VALUATION SECTION															
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nbhd Adj	Notes	Location Adjustment	Adj Unit Pric	Land Value
1	3400	Office C	DID		76,665 SF	18.03	1.00000	C	1.00	C4	1.050			0	1,451,200
Total Card Land Units					1.760	AC	Parcel Total Land Area: 1.7600					Total Land Value 1,451,200			

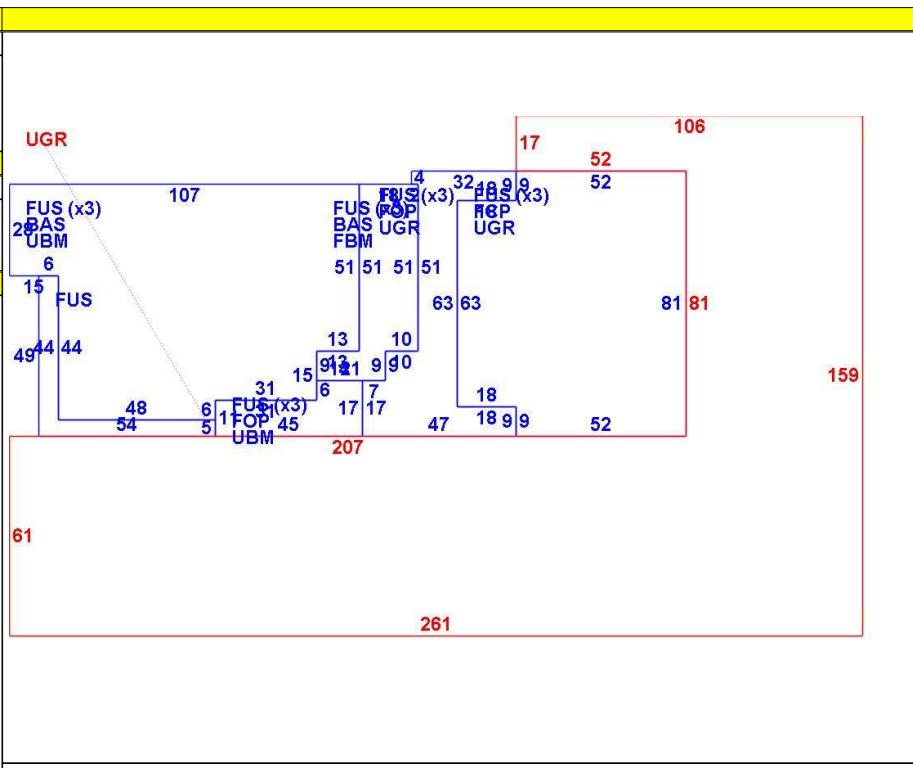
CONSTRUCTION DETAIL			CONSTRUCTION DETAIL (CONTINUED)		
Element	Cd	Description	Element	Cd	Description
Style:	500	Office			
Model	94	Comm/Ind			
Grade	04	Average Plus			
Stories:	4				
Occupancy	8.00				
Exterior Wall 1	21	Stone/Masonry			
Exterior Wall 2	28	Glass/Thermo.			
Roof Structure	01	Flat			
Roof Cover	04	Rubber			
Interior Wall 1	05	Drywall			
Interior Wall 2					
Interior Floor 1	14	Carpet			
Interior Floor 2	19	Marble			
Heating Fuel	03	Gas			
Heating Type	04	Forced Air-Duc			
AC Type	03	Central			
Bldg Use	3400	Office C			
Total Rooms					
Total Bedrms	00				
Total Baths	0				
Liv Area					
Effect Area					
Heat/AC	01	Heat/AC Pkgs			
Frame Type	06	Fireprf Steel			
Baths/Plumbing	02	Average			
Ceiling/Wall	05	Sus-Ceil & WI			
Rooms/Prtns	02	Average			
Wall Height	12.00				
% Conn Wall	0.00				
1st Floor Use:	3400				

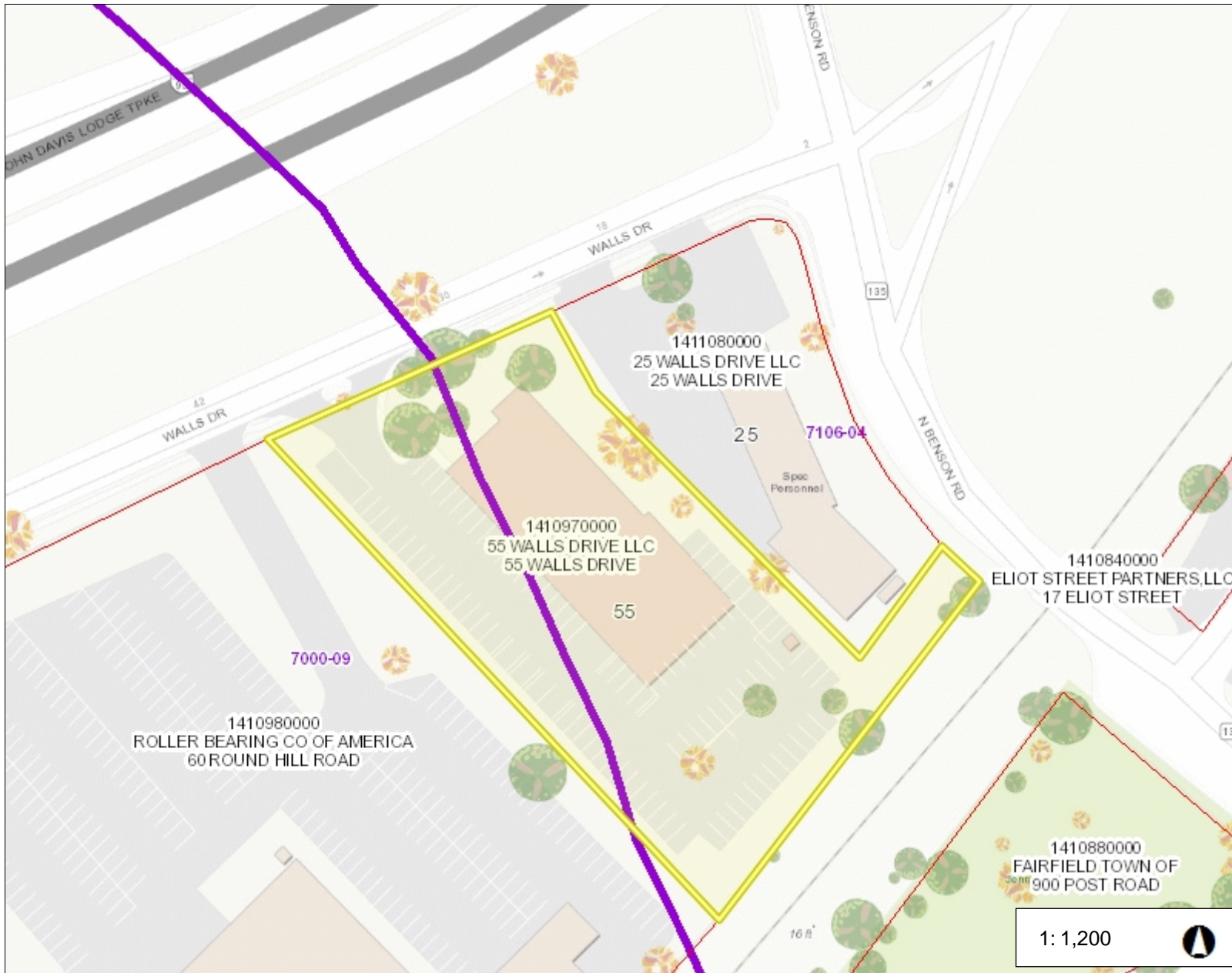
MIXED USE		
Code	Description	Percentage
3400	Office C	100
		0
		0

COST / MARKET VALUATION		
RCN		11,852,278
Year Built		1988
Effective Year Built		
Depreciation Code		5
Remodel Rating		
Year Remodeled		
Depreciation %		18
Functional Obsol		0
External Obsol		10
Trend Factor		1
Condition		
Condition %		
Percent Good		72
Cns Sect Rcnd		8,533,600
Dep % Ovr		
Dep Ovr Comment		
Misc Imp Ovr		
Misc Imp Ovr Comment		
Cost to Cure Ovr		
Cost to Cure Ovr Comment		

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)										
Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value
SPR1	SPRINKLERS-	B	86,226	2.40	1999		72		0.00	149,000
LT1	LIGHTS-IN W/P	L	10	840.00	2001		90		0.00	7,600
PAV1	PAVING-ASPH	L	23,000	3.70	2001		90		0.00	76,600
PAV2	PAVING-CONC	L	28,700	4.70	2001		90		0.00	121,400
ELV1	PASS ELEV	B	5	37000.00	1999		72		0.00	133,200
ELV1	PASS ELEV	B	5	37000.00	1999		72		0.00	133,200
MSC4	UTIL BLDG	L	1	31000.00	2001		90		0.00	27,900
GEN1	GENERATOR	L	1	15000.00	2015		90		0.00	13,500

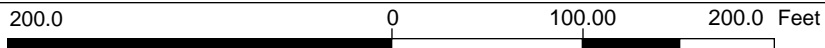
BUILDING SUB-AREA SUMMARY SECTION							
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value	
BAS	First Floor	7,692	7,692		177.05	1,361,830	
FBM	Basement, Finished	554	1,107		61.89	68,516	
FCP	Carport	0	5,346		44.28	236,709	
FOP	Porch, Open, Finished	0	2,262		44.30	100,207	
FUS	Upper Story, Finished	46,434	46,434		177.05	8,220,908	
UBM	Basement, Unfinished	0	7,164		44.26	317,088	
UGR	Garage, Under	0	29,126		53.11	1,547,019	
Ttl Gross Liv / Lease Area		54,680	99,131	66,945		11,852,277	





Legend

- Parcels
- Local Basin Boundary**
- Major
- Regional
- Subregional
- Local
- Local Basin Area



WGS_1984_Web_Mercator_Auxiliary_Sphere
 Created by Greater Bridgeport Regional Council

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



EXHIBIT 3

STRUCTURAL ANALYSIS REPORT

For

CT2120

FAIRFIELD CENTRAL

55 Walls Drive
Fairfield, CT 06824

Antennas Mounted on Tower Supported by Steel Platform



Prepared for:



Dated: January 27, 2022

Prepared by:



45 Beechwood Drive
North Andover, MA 01845
(P) 978.557.5553 (F) 978.336.5586
www.hudsondesigngrouppllc.com



SCOPE OF WORK:

Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the structure supporting the proposed equipment located in the areas depicted in the latest HDG construction drawings.

This report represents this office's findings, conclusions and recommendations pertaining to the support of AT&T's proposed antennas listed below.

This office conducted an on-site visual survey of the above site on March 23, 2021. Attendees included Patrick Barrett (HDG – Field Technician).

The following documents were used for our reference:

- Previous HDG Structural Analysis dated July 6, 2016.
- HDG Tower Structural Analysis dated January 10, 2022.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing structure **IS CAPABLE** of supporting the proposed equipment loading.

	Member	Stress Ratio	Pass/Fail
Building Column	W12x65	67%	PASS

Based on our evaluation, we have determined that the existing connections **ARE CAPABLE** of supporting the proposed equipment loading.

	Member	Stress Ratio	Pass/Fail
Existing Tower Connection	5/8" Thru Bolt	69%	PASS

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

	Member	Controlling Load Case	Stress Ratio	Pass/Fail
Steel Platform	11	LC20	78%	PASS
Platform Support	2-1/2" std	Axial & Bending	87%	PASS

Note: Reference HDG Tower Structural Analysis dated January 10, 2022, for appurtenances and tower reactions.

*Reference documents attached.



DESIGN CRITERIA:

International Building Code (IBC) 2015 with 2018 Connecticut State Building Code Amendments, and ASCE 7-10 (Minimum Design Loads for Buildings and Other Structures).		
Wind		
Reference Wind Speed:	125 mph	(2018 CSBC Appendix N)
Exposure Category:	B	(ASCE 7-10 Chapter 26)
Risk Category:	II	(ASCE 7-10 Table 1.5-1)
Snow		
Ground Snow, P_g :	30	(2018 CSBC Appendix N)
Importance Factor (I_s):	1.0	(ASCE 7-10 Table 1.5-2)
Exposure Factor (C_e):	0.9	(Fully Exposed, Table 7-2)
Thermal Factor (C_t):	1.0	(ASCE 7-10 Table 7-3)
Flat Roof Snow Load:	19 psf	(ASCE 7-10 Equation 7.3-1)
Min. Flat Roof Snow Load:	30 psf	
EIA/TIA-222-H Structural Standards for Steel Antenna Towers and Antenna Supporting Structures		
Wind		
City/Town:	Fairfield	
County:	Fairfield	
Wind Load:	125 mph	(TIA-222-H Figure B-2)
Ice		
Design Ice Thickness (t_i):	1.0 in	(TIA-222-H Figure B-9)
Structure Class:	II	(TIA-222-H Table 2-1)
Importance Factor (I_i):	1.0	(TIA-222-H Table 2-3)
Factored Thickness of Radial Ice (t_{iz}):	1.08 in	(TIA-222-H Sec. 2.6.10)



HUDSON
Design Group LLC

EXISTING ROOF CONSTRUCTION:

The existing roof construction consists of a roofing membrane over rigid insulation over metal decking supported by steel beams and columns.

TOWER SUPPORT RECOMMENDATIONS:

The existing tower is supported by the existing steel platform located on the roof of the existing building supported on existing steel columns.

Limitations and Assumptions:

1. Reference the latest HDG construction drawings for all the equipment locations and details.
2. All detail requirements will be designed and furnished in the construction drawings.
3. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
4. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
5. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer requirements.
6. If field conditions differ from what is assumed in this report, then the engineer of record is to be notified as soon as possible.

FIELD PHOTOS:



Photo 1: Sample photo illustrating the existing tower and steel platform.



HUDSON
Design Group LLC

Tower Connection Calculations

Date: 1/27/2022
Project Name: FAIRFIELD CENTRAL
Project No.: CT2120
Designed By: ID Checked By: MSC



CHECK CONNECTION CAPACITY (Worst Case - Tower Leg)

Reference: AISC Steel Construction Manual 14th Edition (ASD)

Bolt Type = A325 5/8" Threaded Rod

Allowable Tensile Load =

$F_{Tall} = 13806$ lbs.

Allowable Shear Load =

$F_{Vall} = 8283$ lbs.

TENSILE FORCES

Reaction $F = 31662$ lbs. (See HDG Tower Analysis Report dated January 10, 2022)

SHEAR FORCES

Reaction 3812 lbs. (See HDG Tower Analysis Report dated January 10, 2022)

No. of Supports = 1

No. of Bolts / Support = 4

Tension Design Load /Bolts =

$f_t = 7915.50$ lbs. $<$ 13806 lbs. **Therefore, OK !**

Shear Design Load / Bolts=

$f_v = 953.00$ lbs. $<$ 8283 lbs. **Therefore, OK !**

CHECK COMBINED TENSION AND SHEAR

$f_t / F_T + f_v / F_V \leq 1.0$
 $0.573 + 0.115 = 0.688 < 1.0$ **Therefore, OK !**



HUDSON
Design Group LLC

Steel Platform Calculations

Date: 1/27/2022
Project Name: FAIRFIELD CENTRAL
Project No.: CT2120
Designed By: ID **Checked By:** MSC



Wind Analysis → Equipment on Platform

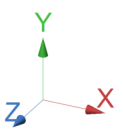
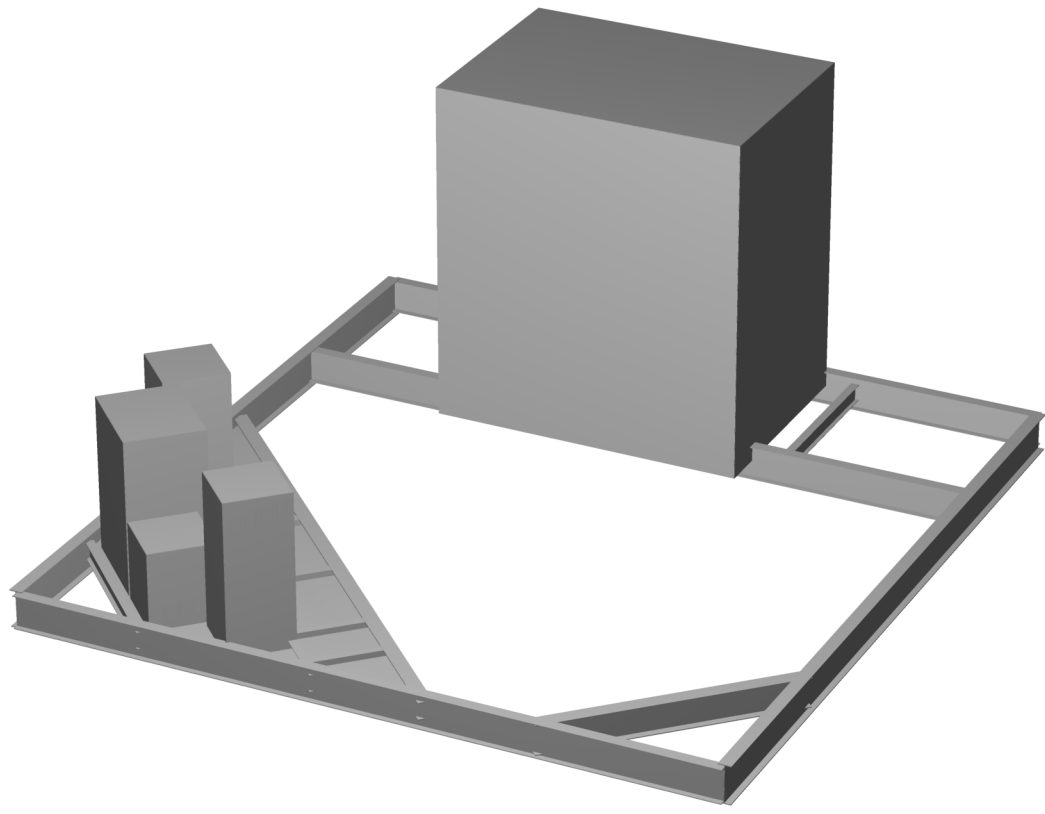
Reference Codes:

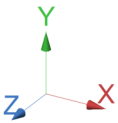
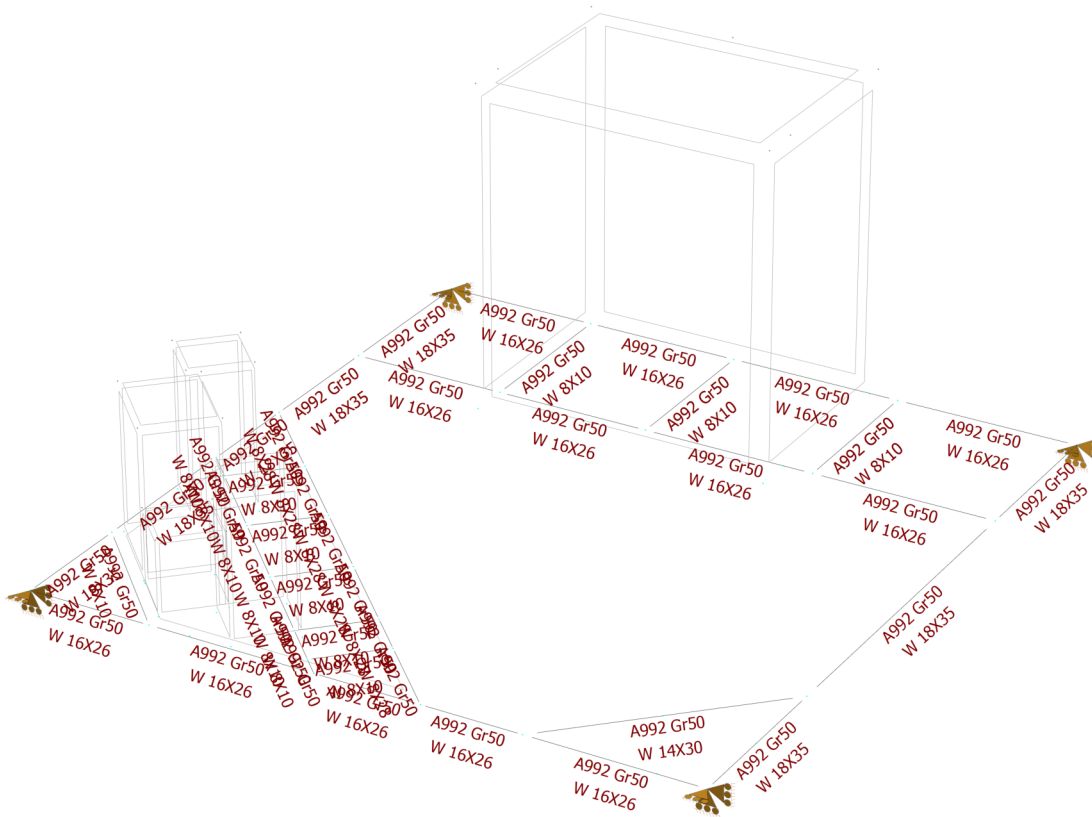
-Connecticut State Building Code

-International Building Code 2018 (IBC 2018)





-Minimum Design Loads for Buildings and Other Structures (ASCE 7-10)

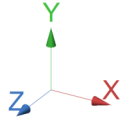
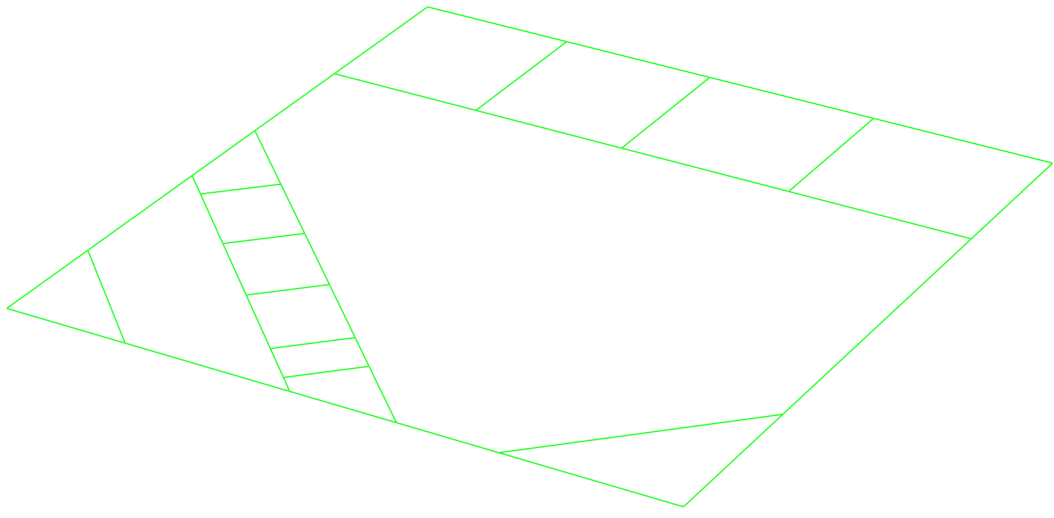
Structure Classification	II	(ASCE 7-10 Table 1.5-1)
Basic Wind Speed, V	125 mph	(CT Building Code Appendix N)
Importance Factor, I	1	(ASCE 7-10 Table 1.5-2)
Exposure Category	B	(ASCE 7-10 Section 26.7)
Height Above Ground Level, z	60 ft	(Center of Enclosure)
Exposure Coefficient, K_z	0.85	(ASCE 7-10 Table 29-3.1)
Wind Directionality Coef., K_d	0.90	(ASCE 7-10 Table 26.6-1)
Topographic Factor, K_{zt}	1.00	(ASCE 7-10 Section 26.8.2)
Velocity Pressure, q_z	$= 0.00256K_zK_{zt}K_dV^2$	(ASCE 7-10 Equation 29.3-1)
	= 30.60 psf	
Gust Factor, G	0.85	(ASCE 7-10 Section 26.9)
Enclosure Shape:	Square	
Net Force Coefficient, C_f	1.31	(ASCE 7-10 Figure 29.5-1)
Area Wind Force, F	$= q_zGC_f$	(ASCE 7-10 Equation 29.5-2)
	= 34.03 psf	

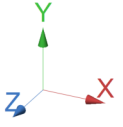
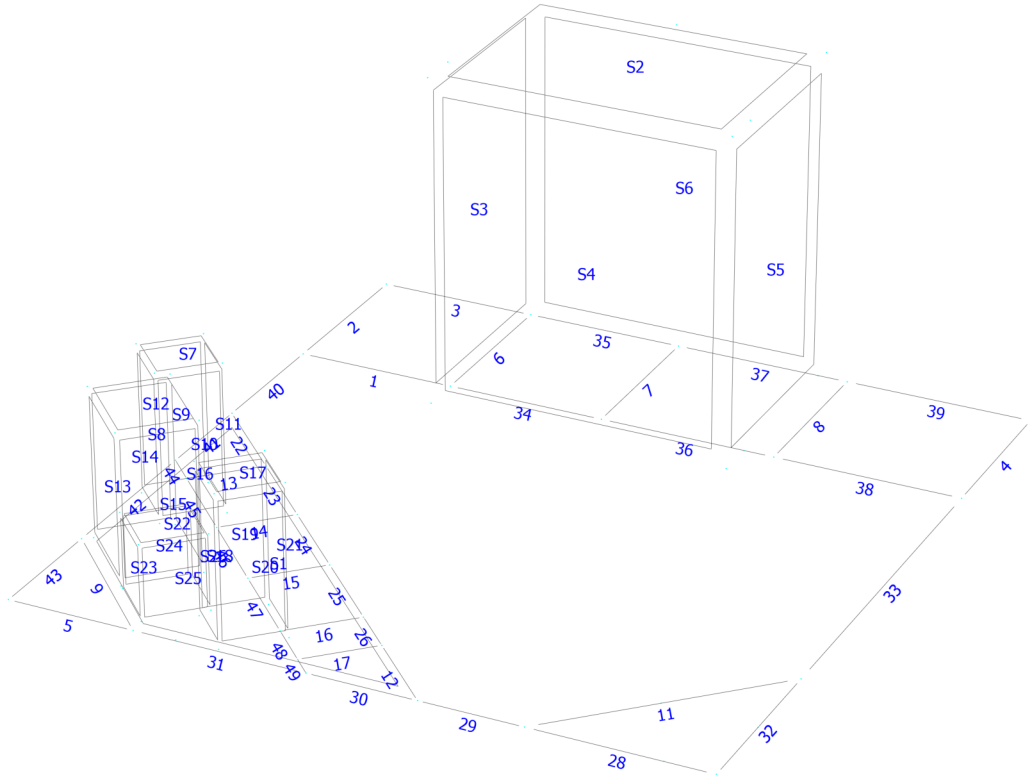




Design status

-  Not designed
-  Error on design
-  Design O.K.
-  With warnings







Current Date: 1/27/2022 3:41 PM
 Units system: English

Load data

GLOSSARY

Comb : Indicates if load condition is a load combination

Load Conditions

Condition	Description	Comb.	Category
DL	Dead Load	No	DL
LL	Live Load	No	LL
WL1	Wind Load Side 1	No	WIND
WL2	Wind Load Side 2	No	WIND
WL3	Wind Load Side 3	No	WIND
WL4	Wind Load Side 4	No	WIND
DL1	Leg A Loads	No	DL
DL2	Leg B Loads	No	DL
DL3	Leg CLoads	No	DL

Load on nodes

Condition	Node	FX [Kip]	FY [Kip]	FZ [Kip]	MX [Kip*ft]	MY [Kip*ft]	MZ [Kip*ft]
DL	17	0.00	-3.55	0.00	0.00	0.00	0.00
	20	0.00	-3.55	0.00	0.00	0.00	0.00
	24	0.00	-0.50	0.00	0.00	0.00	0.00
	38	0.00	-3.55	0.00	0.00	0.00	0.00
	40	0.00	-3.55	0.00	0.00	0.00	0.00
	48	0.00	-0.25	0.00	0.00	0.00	0.00
	49	0.00	-0.25	0.00	0.00	0.00	0.00
	50	0.00	-0.25	0.00	0.00	0.00	0.00
	51	0.00	-0.25	0.00	0.00	0.00	0.00
	56	0.00	-0.50	0.00	0.00	0.00	0.00
	57	0.00	-0.50	0.00	0.00	0.00	0.00
	58	0.00	-0.50	0.00	0.00	0.00	0.00
	59	0.00	-0.50	0.00	0.00	0.00	0.00
	64	0.00	-0.25	0.00	0.00	0.00	0.00
	65	0.00	-0.25	0.00	0.00	0.00	0.00
	66	0.00	-0.25	0.00	0.00	0.00	0.00
	67	0.00	-0.25	0.00	0.00	0.00	0.00
	DL1	72	0.00	-0.15	0.00	0.00	0.00
73		0.00	-0.15	0.00	0.00	0.00	0.00
74		0.00	-0.15	0.00	0.00	0.00	0.00
75		0.00	-0.15	0.00	0.00	0.00	0.00
81		0.00	-0.50	0.00	0.00	0.00	0.00
6		0.0901	-35.9994	3.9498	0.00	0.00	0.00
16		1.2221	14.2289	1.8649	0.00	0.00	0.00
80		-1.3517	15.6031	1.7183	0.00	0.00	0.00
DL2		6	-0.8142	15.2863	-1.9937	0.00	0.00
	16	-3.4333	-36.685	-1.8883	0.00	0.00	0.00
	80	-2.2169	15.2313	0.1498	0.00	0.00	0.00

DL3	6	0.7297	15.6586	-2.0294	0.00	0.00	0.00
	16	2.2677	14.229	0.0552	0.00	0.00	0.00
	80	3.5065	-36.055	-1.8266	0.00	0.00	0.00

Load on shells

Condition	Shell	Pressure [Kip/ft2]	Temp. [F]
DL	1	0.015	0.00
LL	1	0.025	0.00
WL1	4	0.034	0.00
	8	0.034	0.00
	13	0.034	0.00
	18	0.034	0.00
	23	0.034	0.00
WL2	5	-0.034	0.00
	10	0.034	0.00
	15	0.034	0.00
	20	0.034	0.00
	25	0.034	0.00
WL3	6	0.034	0.00
	11	0.034	0.00
	16	0.034	0.00
	21	0.034	0.00
	26	0.034	0.00
WL4	3	0.034	0.00
	9	0.034	0.00
	14	0.034	0.00
	19	0.034	0.00

Self weight multipliers for load conditions

Condition	Description	Self weight multiplier			
		Comb.	MultX	MultY	MultZ
DL	Dead Load	No	0.00	-1.00	0.00
LL	Live Load	No	0.00	0.00	0.00
WL1	Wind Load Side 1	No	0.00	0.00	0.00
WL2	Wind Load Side 2	No	0.00	0.00	0.00
WL3	Wind Load Side 3	No	0.00	0.00	0.00
WL4	Wind Load Side 4	No	0.00	0.00	0.00
DL1	Leg A Loads	No	0.00	0.00	0.00
DL2	Leg B Loads	No	0.00	0.00	0.00
DL3	Leg CLoads	No	0.00	0.00	0.00

Earthquake (Dynamic analysis only)

Condition	a/g	Ang. [Deg]	Damp. [%]
DL	0.00	0.00	0.00
LL	0.00	0.00	0.00
WL1	0.00	0.00	0.00
WL2	0.00	0.00	0.00
WL3	0.00	0.00	0.00
WL4	0.00	0.00	0.00
DL1	0.00	0.00	0.00
DL2	0.00	0.00	0.00
DL3	0.00	0.00	0.00

Steel Code Check

Report: Summary - Group by member

Load conditions to be included in design :

- LC1=1.4DL+DL1
- LC2=1.4DL+DL2
- LC3=1.4DL+DL3
- LC4=1.2DL+1.6LL+DL1
- LC5=1.2DL+1.6LL+DL2
- LC6=1.2DL+1.6LL+DL3
- LC7=1.2DL+LL+DL1
- LC8=1.2DL+LL+DL2
- LC9=1.2DL+LL+DL3
- LC10=1.2DL+0.5WL1+DL1
- LC11=1.2DL+0.5WL1+DL2
- LC12=1.2DL+0.5WL1+DL3
- LC13=1.2DL+0.5WL2+DL1
- LC14=1.2DL+0.5WL2+DL2
- LC15=1.2DL+0.5WL2+DL3
- LC16=1.2DL+LL+WL1+DL1
- LC17=1.2DL+LL+WL1+DL2
- LC18=1.2DL+LL+WL1+DL3
- LC19=1.2DL+LL+WL2+DL1
- LC20=1.2DL+LL+WL2+DL2
- LC21=1.2DL+LL+WL2+DL3
- LC22=1.2DL+LL+WL3+DL1
- LC23=1.2DL+LL+WL3+DL2
- LC24=1.2DL+LL+WL3+DL3
- LC25=1.2DL+LL+WL4+DL1
- LC26=1.2DL+LL+WL4+DL2
- LC27=1.2DL+LL+WL4+DL3
- LC28=1.2DL+LL+DL1
- LC29=1.2DL+LL+DL2
- LC30=1.2DL+LL+DL3
- LC31=0.9DL+WL1+DL1
- LC32=0.9DL+WL1+DL2
- LC33=0.9DL+WL1+DL3
- LC34=0.9DL+WL2+DL1
- LC35=0.9DL+WL2+DL2
- LC36=0.9DL+WL2+DL3
- LC37=0.9DL+WL3+DL1
- LC38=0.9DL+WL3+DL2
- LC39=0.9DL+WL3+DL3
- LC40=0.9DL+WL4+DL1
- LC41=0.9DL+WL4+DL2
- LC42=0.9DL+WL4+DL3
- LC43=0.9DL+DL1
- LC44=0.9DL+DL2
- LC45=0.9DL+DL3

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	W 14X30	11	LC20 at 50.00%	0.78	OK	
	W 16X26	1	LC24 at 100.00%	0.44	OK	
		3	LC16 at 100.00%	0.63	OK	
		5	LC5 at 100.00%	0.27	OK	

28	LC23 at 0.00%	0.70	OK
29	LC23 at 100.00%	0.69	OK
30	LC5 at 100.00%	0.59	OK
31	LC5 at 100.00%	0.50	OK
34	LC23 at 100.00%	0.66	OK
35	LC16 at 0.00%	0.51	OK
36	LC22 at 0.00%	0.68	OK
37	LC17 at 83.33%	0.61	OK
38	LC22 at 0.00%	0.39	OK
39	LC17 at 0.00%	0.59	OK

W 18X35

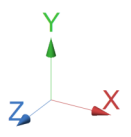
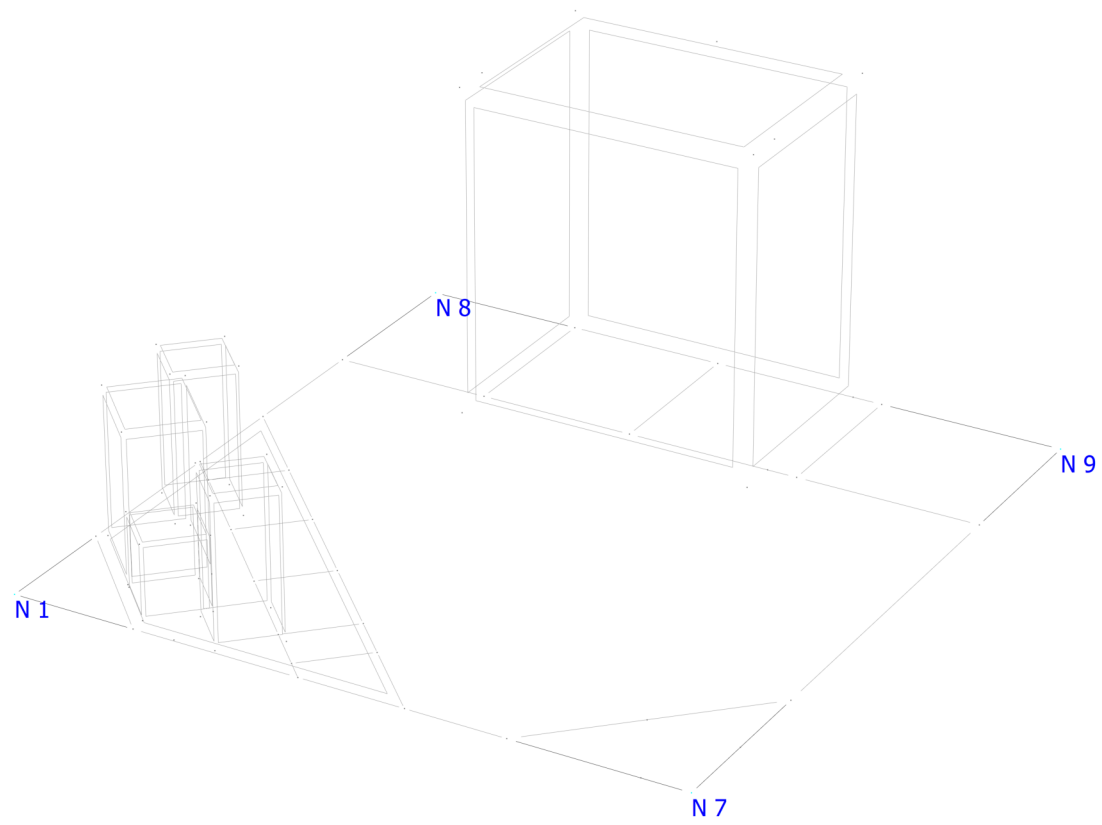
2	LC22 at 0.00%	0.40	OK
4	LC24 at 100.00%	0.43	OK
32	LC21 at 50.00%	0.67	OK
33	LC21 at 100.00%	0.72	OK
40	LC21 at 100.00%	0.46	OK
41	LC22 at 0.00%	0.35	OK
42	LC24 at 0.00%	0.24	OK
43	LC23 at 0.00%	0.14	OK

W 8X10

6	LC26 at 50.00%	0.09	OK
7	LC37 at 0.00%	0.01	OK
8	LC16 at 0.00%	0.05	OK
9	LC25 at 50.00%	0.08	OK
13	LC18 at 46.88%	0.01	OK
14	LC17 at 50.00%	0.01	OK
15	LC25 at 100.00%	0.01	OK
16	LC17 at 100.00%	0.44	OK
17	LC6 at 50.00%	0.01	OK
44	LC18 at 100.00%	0.13	OK
45	LC18 at 100.00%	0.37	OK
46	LC18 at 50.00%	0.40	OK
47	LC18 at 0.00%	0.36	OK
48	LC17 at 12.50%	0.46	OK
49	LC18 at 0.00%	0.03	OK

W 8X28

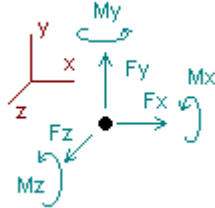
12	LC5 at 100.00%	0.10	OK
22	LC5 at 0.00%	0.07	OK
23	LC5 at 0.00%	0.11	OK
24	LC5 at 0.00%	0.14	OK
25	LC5 at 46.88%	0.14	OK
26	LC5 at 100.00%	0.14	OK



Analysis result

Envelope for nodal reactions

Note.- I_c is the controlling load condition



Direction of positive forces and moments

Envelope of nodal reactions for :

- LC1=1.4DL+DL1
- LC2=1.4DL+DL2
- LC3=1.4DL+DL3
- LC4=1.2DL+1.6LL+DL1
- LC5=1.2DL+1.6LL+DL2
- LC6=1.2DL+1.6LL+DL3
- LC7=1.2DL+LL+DL1
- LC8=1.2DL+LL+DL2
- LC9=1.2DL+LL+DL3
- LC10=1.2DL+0.5WL1+DL1
- LC11=1.2DL+0.5WL1+DL2
- LC12=1.2DL+0.5WL1+DL3
- LC13=1.2DL+0.5WL2+DL1
- LC14=1.2DL+0.5WL2+DL2
- LC15=1.2DL+0.5WL2+DL3
- LC16=1.2DL+LL+WL1+DL1
- LC17=1.2DL+LL+WL1+DL2
- LC18=1.2DL+LL+WL1+DL3
- LC19=1.2DL+LL+WL2+DL1
- LC20=1.2DL+LL+WL2+DL2
- LC21=1.2DL+LL+WL2+DL3
- LC22=1.2DL+LL+WL3+DL1
- LC23=1.2DL+LL+WL3+DL2
- LC24=1.2DL+LL+WL3+DL3
- LC25=1.2DL+LL+WL4+DL1
- LC26=1.2DL+LL+WL4+DL2
- LC27=1.2DL+LL+WL4+DL3
- LC28=1.2DL+LL+DL1
- LC29=1.2DL+LL+DL2
- LC30=1.2DL+LL+DL3
- LC31=0.9DL+WL1+DL1
- LC32=0.9DL+WL1+DL2
- LC33=0.9DL+WL1+DL3
- LC34=0.9DL+WL2+DL1
- LC35=0.9DL+WL2+DL2
- LC36=0.9DL+WL2+DL3
- LC37=0.9DL+WL3+DL1
- LC38=0.9DL+WL3+DL2
- LC39=0.9DL+WL3+DL3
- LC40=0.9DL+WL4+DL1
- LC41=0.9DL+WL4+DL2
- LC42=0.9DL+WL4+DL3

LC43=0.9DL+DL1
 LC44=0.9DL+DL2
 LC45=0.9DL+DL3

Node		Forces						Moments					
		Fx [Kip]	lc	Fy [Kip]	lc	Fz [Kip]	lc	Mx [Kip*ft]	lc	My [Kip*ft]	lc	Mz [Kip*ft]	lc
1	Max	2.418	LC38	15.104	LC23	1.210	LC18	0.00000	LC1	0.00000	LC1	0.00000	LC1
	Min	-2.212	LC18	2.388	LC33	-1.193	LC38	0.00000	LC1	0.00000	LC1	0.00000	LC1
7	Max	6.269	LC35	14.497	LC4	3.950	LC35	0.00000	LC1	0.00000	LC1	0.00000	LC1
	Min	-6.854	LC27	2.660	LC32	-6.346	LC25	0.00000	LC1	0.00000	LC1	0.00000	LC1
8	Max	5.280	LC16	13.288	LC1	5.187	LC18	0.00000	LC1	0.00000	LC1	0.00000	LC1
	Min	-1.752	LC38	7.190	LC41	-4.499	LC37	0.00000	LC1	0.00000	LC1	0.00000	LC1
9	Max	2.299	L39	12.362	LC2	3.088	LC32	0.00000	LC1	0.00000	LC1	0.00000	LC1
	Min	-5.405	LC16	1.480	LC34	-2.813	LC22	0.00000	LC1	0.00000	LC1	0.00000	LC1



Steel Column

Lic. #: KW-06013026

DESCRIPTION: **Steel Platform Support (Worse Case)**

Code References

Calculations per AISC 360-10, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-10

General Information

Steel Section Name :	Pipe2-1/2 Std	Overall Column Height	0.750 ft
Analysis Method :	Allowable Strength	Top & Bottom Fixity	Top Pinned, Bottom Fixed
Steel Stress Grade		Brace condition for deflection (buckling) along columns :	
Fy : Steel Yield	35.0 ksi	X-X (width) axis :	Fully braced against buckling ABOUT Y-Y Axis
E : Elastic Bending Modulus	29,000.0 ksi	Y-Y (depth) axis :	Fully braced against buckling ABOUT X-X Axis

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Column self weight included : 4.360 lbs * Dead Load Factor

AXIAL LOADS . . .

Steel Platform Reactions (See Bentley Output): Axial Load at 0.750 ft, Xecc = 0.480 in, Yecc = 0.480 in, D = 14.497 k

BENDING LOADS . . .

Steel Platform Reactions (See Bentley Output): Lat. Point Load at 1.50 ft creating Mx-x, D = 6.346 k

Steel Platform Reactions (See Bentley Output): Lat. Point Load at 1.50 ft creating My-y, D = 6.854 k

DESIGN SUMMARY

Bending & Shear Check Results

PASS Max. Axial+Bending Stress Ratio =	0.8617 : 1	Maximum Load Reactions . .	
Load Combination	D Only	Top along X-X	8.014 k
Location of max.above base	0.7450 ft	Bottom along X-X	1.160 k
At maximum location values are . . .		Top along Y-Y	7.506 k
Pa : Axial	14.501 k	Bottom along Y-Y	1.160 k
Pn / Omega : Allowable	33.323 k	Maximum Load Deflections . . .	
Ma-x : Applied	-0.5740 k-ft	Along Y-Y	-0.000496 in at 0.5034 ft above base
Mn-x / Omega : Allowable	2.393 k-ft	for load combination : D Only	
Ma-y : Applied	-0.5740 k-ft	Along X-X	-0.000496 in at 0.5034 ft above base
Mn-y / Omega : Allowable	2.393 k-ft	for load combination : D Only	
PASS Maximum Shear Stress Ratio =	0.8016 : 1		
Load Combination	D Only		
Location of max.above base	0.750 ft		
At maximum location values are . . .			
Va : Applied	8.014 k		
Vn / Omega : Allowable	9.997 k		

Load Combination Results

Load Combination	Maximum Axial + Bending Stress Ratios				Cbx	Cby	KxLx/Rx	KyLy/Ry	Maximum Shear Ratios		
	Stress Ratio	Status	Location	Stress Ratio					Status	Location	
D Only	0.862	PASS	0.74 ft	1.00	1.00	0.00	0.00	0.802	PASS	0.75 ft	
+0.60D	0.517	PASS	0.74 ft	1.00	1.00	0.00	0.00	0.481	PASS	0.75 ft	

Maximum Reactions

Note: Only non-zero reactions are listed.

Load Combination	Axial Reaction @ Base	X-X Axis Reaction @ Base @ Top		k	Y-Y Axis Reaction @ Base @ Top		Mx - End Moments @ Base @ Top		k-ft	My - End Moments @ Base @ Top	
		D Only	14.501		1.160	8.014	-1.160	7.506		0.290	0.290
+0.60D	8.701	0.696	4.808	-0.696	4.503	0.174	0.174	0.174			

Extreme Reactions

Item	Extreme Value	Axial Reaction @ Base		k	Y-Y Axis Reaction @ Base @ Top		Mx - End Moments @ Base @ Top		k-ft	My - End Moments @ Base @ Top	
		Axial @ Base	Maximum		14.501	1.160	8.014	-1.160		7.506	0.290
"	Minimum	8.701	0.696	4.808	-0.696	4.503	0.174	0.174			
Reaction, X-X Axis Base	Maximum	14.501	1.160	8.014	-1.160	7.506	0.290	0.290			
"	Minimum	8.701	0.696	4.808	-0.696	4.503	0.174	0.174			



Steel Column

Lic. #: KW-06013026

DESCRIPTION: **Steel Platform Support (Worse Case)**

Extreme Reactions

Item	Extreme Value	Axial Reaction			X-X Axis Reaction		Y-Y Axis Reaction		Mx - End Moments		My - End Moments	
		@ Base	@ Base	@ Top	@ Base	@ Top	@ Base	@ Top	@ Base	@ Top	@ Base	@ Top
Reaction, Y-Y Axis Base	Maximum	8.701	0.696	4.808	-0.696	4.503	0.174			0.174		
"	Minimum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
Reaction, X-X Axis Top	Maximum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
"	Minimum	8.701	0.696	4.808	-0.696	4.503	0.174			0.174		
Reaction, Y-Y Axis Top	Maximum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
"	Minimum	8.701	0.696	4.808	-0.696	4.503	0.174			0.174		
Moment, X-X Axis Base	Maximum	14.501	0.290	8.014	-1.160	7.506	0.290			0.290		
"	Minimum	8.701	0.174	4.808	-0.696	4.503	0.174			0.174		
Moment, Y-Y Axis Base	Maximum	14.501	1.160	8.014	-1.160	7.506	0.174			0.290		
"	Minimum	8.701	0.696	4.808	-0.696	4.503	0.174			0.174		
Moment, X-X Axis Top	Maximum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
"	Minimum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
Moment, Y-Y Axis Top	Maximum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		
"	Minimum	14.501	1.160	8.014	-1.160	7.506	0.290			0.290		

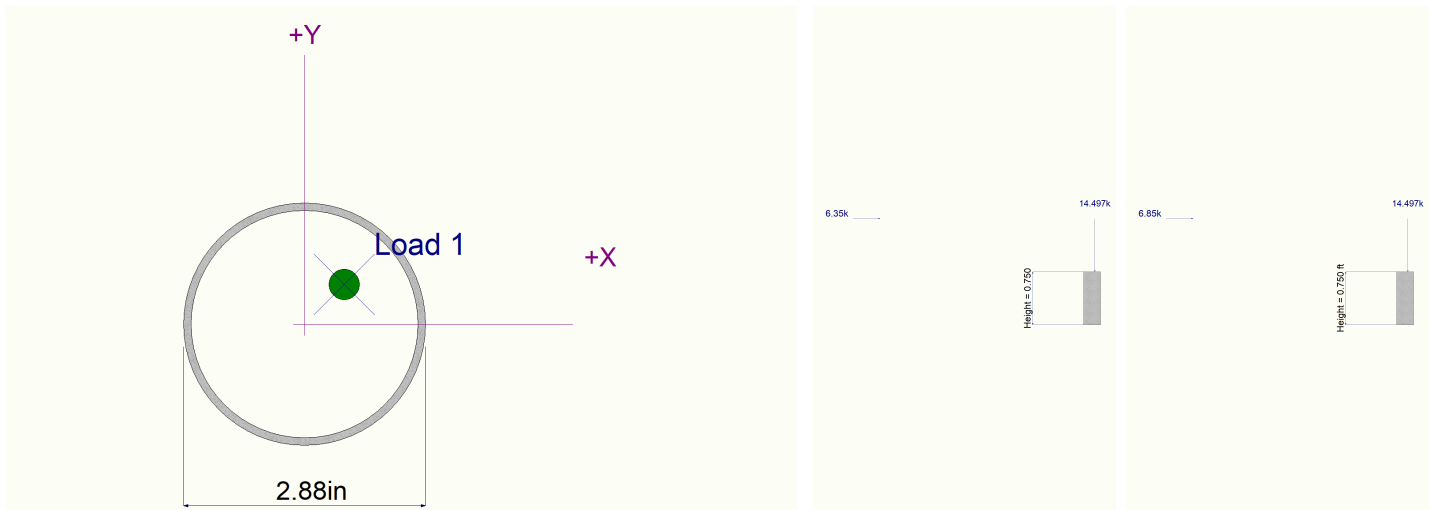
Maximum Deflections for Load Combinations

Load Combination	Max. X-X Deflection	Distance	Max. Y-Y Deflection	Distance
D Only	-0.0005 in	0.503 ft	-0.000 in	0.503 ft
+0.60D	-0.0003 in	0.503 ft	-0.000 in	0.503 ft

Steel Section Properties : Pipe2-1/2 Std

Depth	=	2.875 in	Ixx	=	1.45 in ⁴	J	=	2.890 in ⁴
			Sxx	=	1.01 in ³			
Diameter	=	2.875 in	Rxx	=	0.952 in			
Wall Thick	=	0.203 in	Zx	=	1.370 in ³			
Area	=	1.590 in ²	Iyy	=	1.450 in ⁴			
Weight	=	5.813 plf	Syy	=	1.010 in ³			
			Ryy	=	0.952 in			
Ycg	=	0.000 in						

Sketches





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Roof Framing Calculations



Steel Column

Lic. # : KW-06013026

File: STUB UP.ec6
Software copyright ENERCALC, INC. 1983-2020, Build:12.20.8.24
Hudson Design Group LLC

DESCRIPTION: Building Column (Worse Case)

Code References

Calculations per AISC 360-10, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-10

General Information

Steel Section Name :	W12x65	Overall Column Height	14.0 ft
Analysis Method :	Allowable Strength	Top & Bottom Fixity	Top & Bottom Pinned
Steel Stress Grade	A-572, High Strength, Low Alloy, Fy = :	Brace condition for deflection (buckling) along columns :	
Fy : Steel Yield	50.0 ksi	X-X (width) axis :	Fully braced against buckling ABOUT Y-Y Axis
E : Elastic Bending Modulus	29,000.0 ksi	Y-Y (depth) axis :	Fully braced against buckling ABOUT X-X Axis

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Column self weight included : 910.23 lbs * Dead Load Factor

AXIAL LOADS . . .

Steel Platform Reactions (See Bentley Output): Axial Load at 14.0 ft, D = 15.104 k
Roof Load (Trib Area: 819 sq ft.): Axial Load at 14.0 ft, D = 32.80, S = 28.70 k
3rd Floor Load (Trib Area: 819 sq ft.): Axial Load at 14.0 ft, D = 61.40, L = 49.10 k
2nd Floor Load (Trib Area: 819 sq ft.): Axial Load at 14.0 ft, D = 61.40, L = 49.10 k
1st Floor Load (Trib Area: 819 sq ft.): Axial Load at 14.0 ft, D = 61.40, L = 49.10 k

DESIGN SUMMARY

Bending & Shear Check Results

PASS Max. Axial+Bending Stress Ratio =	0.6651 : 1	Maximum Load Reactions . .	
Load Combination	+D+L	Top along X-X	0.0 k
Location of max.above base	0.0 ft	Bottom along X-X	0.0 k
At maximum location values are . . .		Top along Y-Y	0.0 k
Pa : Axial	380.314 k	Bottom along Y-Y	0.0 k
Pn / Omega : Allowable	571.86 k	Maximum Load Deflections . . .	
Ma-x : Applied	0.0 k-ft	Along Y-Y	0.0 in at 0.0 ft above base
Mn-x / Omega : Allowable	237.004 k-ft	for load combination :	
Ma-y : Applied	0.0 k-ft	Along X-X	0.0 in at 0.0 ft above base
Mn-y / Omega : Allowable	106.994 k-ft	for load combination :	
PASS Maximum Shear Stress Ratio =	0.0 : 1		
Load Combination	0.0		
Location of max.above base	0.0 ft		
At maximum location values are . . .			
Va : Applied	0.0 k		
Vn / Omega : Allowable	0.0 k		

Load Combination Results

Load Combination	Maximum Axial + Bending Stress Ratios				Cb _x	Cb _y	K _x L _x /R _x	K _y L _y /R _y	Maximum Shear Ratios		
	Stress Ratio	Status	Location	Stress Ratio					Status	Location	
D Only	0.407	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	
+D+L	0.665	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	
+D+S	0.458	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	
+D+0.750L	0.601	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	
+D+0.750L+0.750S	0.638	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	
+0.60D	0.244	PASS	0.00 ft	1.00	1.00	0.00	0.00	0.000	PASS	0.00 ft	

Maximum Reactions

Note: Only non-zero reactions are listed.

Load Combination	Axial Reaction	X-X Axis Reaction		Y-Y Axis Reaction	M _x - End Moments		M _y - End Moments	
	@ Base	@ Base	@ Top	@ Base	@ Base	@ Top	@ Base	@ Top
D Only	233.014							
+D+L	380.314							
+D+S	261.714							
+D+0.750L	343.489							



Steel Column

Lic. #: KW-06013026

DESCRIPTION: **Building Column (Worse Case)**

Note: Only non-zero reactions are listed.

Maximum Reactions

Load Combination	Axial Reaction @ Base	X-X Axis Reaction @ Base	X-X Axis Reaction @ Top	k	Y-Y Axis Reaction @ Base	Y-Y Axis Reaction @ Top	Mx - End Moments @ Base	Mx - End Moments @ Top	k-ft	My - End Moments @ Base	My - End Moments @ Top
+D+0.750L+0.750S	365.014										
+0.60D	139.809										
L Only	147.300										
S Only	28.700										

Extreme Reactions

Item	Extreme Value	Axial Reaction @ Base	X-X Axis Reaction @ Base	X-X Axis Reaction @ Top	k	Y-Y Axis Reaction @ Base	Y-Y Axis Reaction @ Top	Mx - End Moments @ Base	Mx - End Moments @ Top	k-ft	My - End Moments @ Base	My - End Moments @ Top
Axial @ Base	Maximum	380.314										
"	Minimum	28.700										
Reaction, X-X Axis Base	Maximum	233.014										
"	Minimum	233.014										
Reaction, Y-Y Axis Base	Maximum	233.014										
"	Minimum	233.014										
Reaction, X-X Axis Top	Maximum	233.014										
"	Minimum	233.014										
Reaction, Y-Y Axis Top	Maximum	233.014										
"	Minimum	233.014										
Moment, X-X Axis Base	Maximum	233.014										
"	Minimum	233.014										
Moment, Y-Y Axis Base	Maximum	233.014										
"	Minimum	233.014										
Moment, X-X Axis Top	Maximum	233.014										
"	Minimum	233.014										
Moment, Y-Y Axis Top	Maximum	233.014										
"	Minimum	233.014										

Maximum Deflections for Load Combinations

Load Combination	Max. X-X Deflection	Distance	Max. Y-Y Deflection	Distance
D Only	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+L	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+S	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+0.750L	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+0.750L+0.750S	0.0000 in	0.000 ft	0.000 in	0.000 ft
+0.60D	0.0000 in	0.000 ft	0.000 in	0.000 ft
L Only	0.0000 in	0.000 ft	0.000 in	0.000 ft
S Only	0.0000 in	0.000 ft	0.000 in	0.000 ft

Steel Section Properties : W12x65

Depth	=	12.100 in	I xx	=	533.00 in ⁴	J	=	2.180 in ⁴
Web Thick	=	0.390 in	S xx	=	87.90 in ³	Cw	=	5,780.00 in ⁶
Flange Width	=	12.000 in	R xx	=	5.280 in			
Flange Thick	=	0.605 in	Zx	=	96.800 in ³			
Area	=	19.100 in ²	I yy	=	174.000 in ⁴			
Weight	=	65.016 plf	S yy	=	29.100 in ³	Wno	=	34.500 in ²
Kdesign	=	1.200 in	R yy	=	3.020 in	Sw	=	62.600 in ⁴
K1	=	1.000 in	Zy	=	44.100 in ³	Qf	=	20.200 in ³
rts	=	3.380 in				Qw	=	47.500 in ³
Ycg	=	0.000 in						

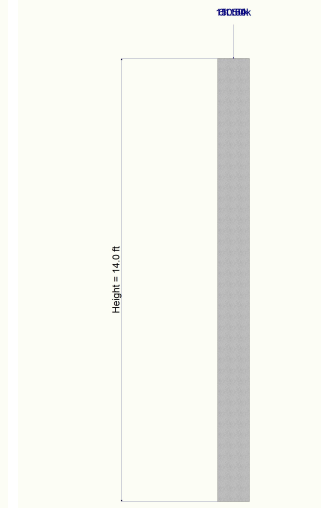
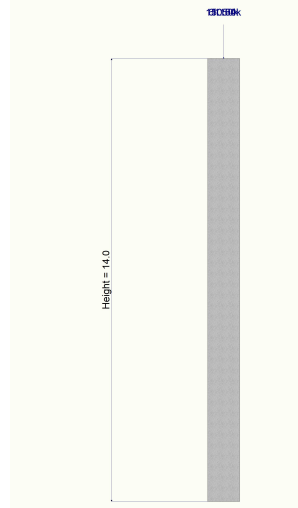
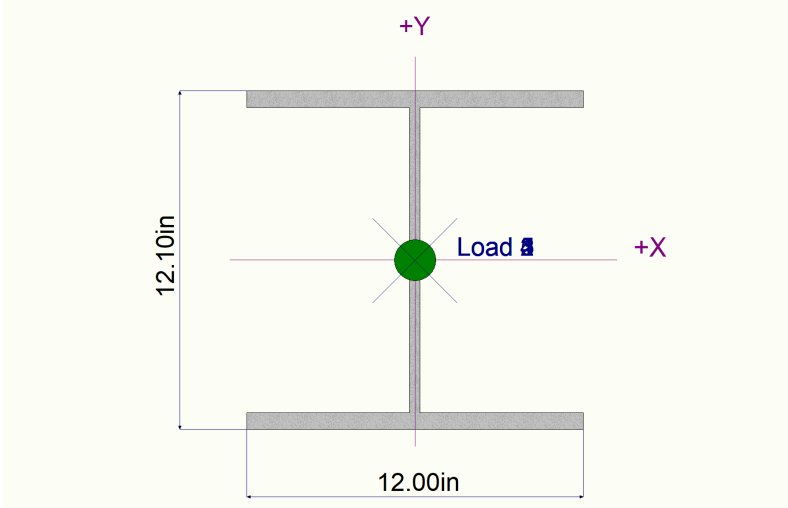


Steel Column

Lic. # : KW-06013026

DESCRIPTION: Building Column (Worse Case)

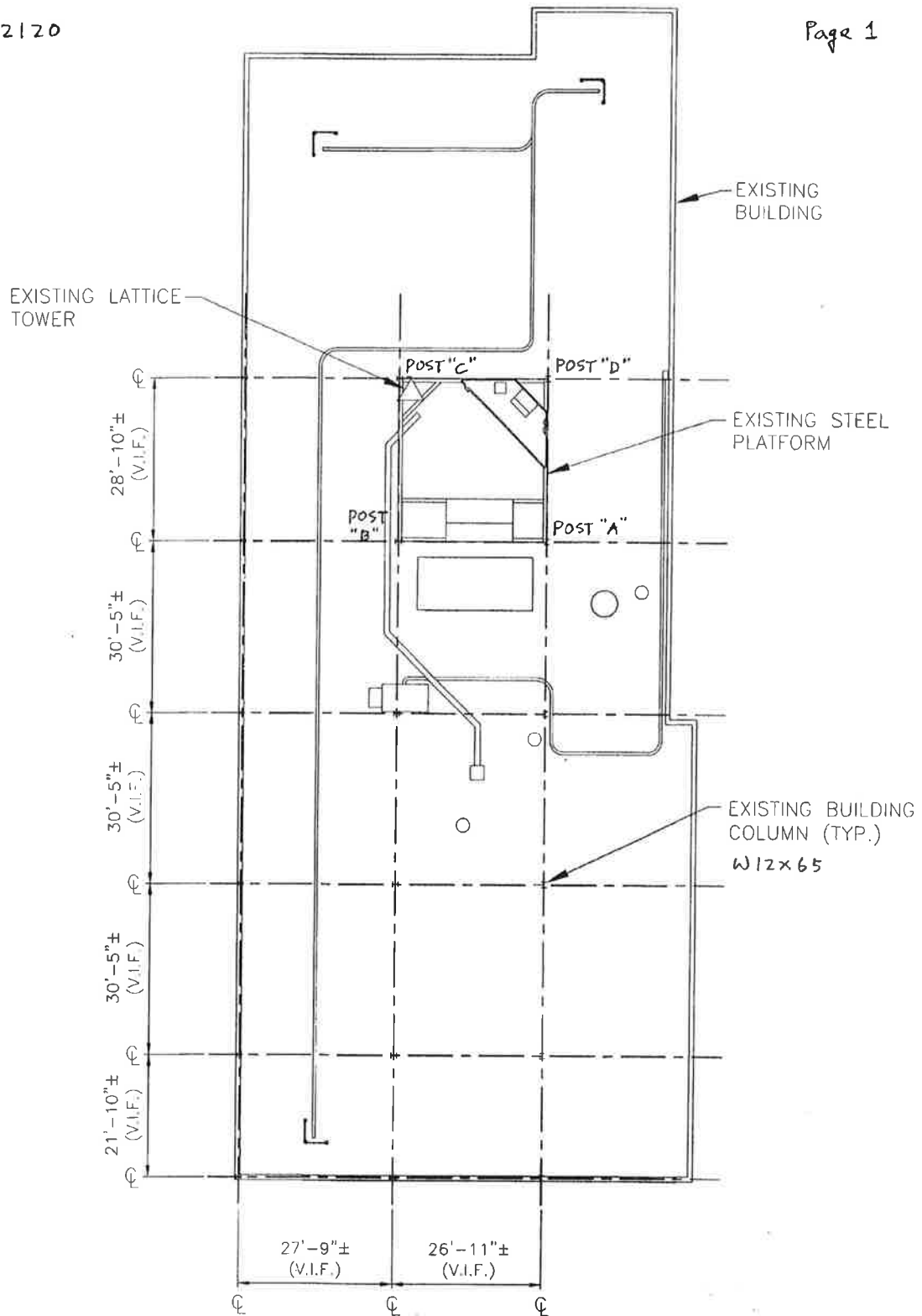
Sketches





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Reference Documents



APPROX.
TRUE NORTH



ROOF PLAN

SCALE: NTS

DATE: 7/6/2016
 Project Name: FAIRFIELD - CENTRAL
 Project No.: CT2120
 Design By: KW Chk'd By: _____ Page 2 of _____

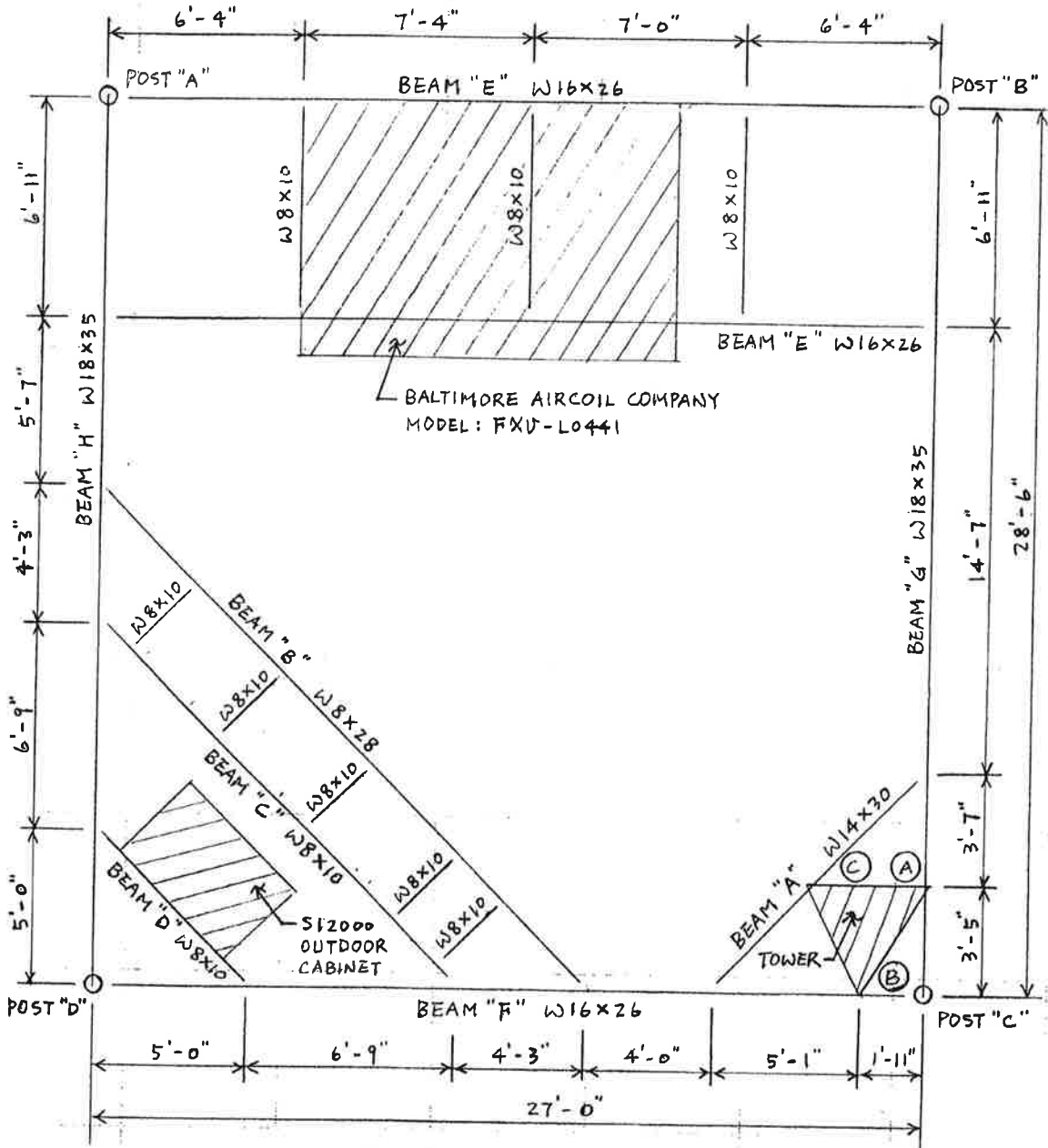


EXHIBIT 4

STRUCTURAL ANALYSIS REPORT

For

SITE NUMBER: CT2120

SITE NAME: FAIRFIELD CENTRAL

55 Walls Drive
Fairfield, CT 06824

Antennas Mounted on the Tower



Prepared for:



Dated: January 10, 2022

Prepared by:



45 Beechwood Drive
North Andover, MA 01845
(P) 978.557.5553 (F) 978.336.5586
www.hudsondesigngroupllc.com



HUDSON
Design Group LLC

SCOPE OF WORK:

Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the 20' self-supporting tower supporting the proposed AT&T's antennas located at elevation 70' above the ground level.

This report represents this office's findings, conclusions and recommendations pertaining to the support of AT&T's existing and proposed antennas listed below.

The following documents were used for our reference:

- Previous HDG Structural Analysis dated July 6, 2016.
- Tower Structural Analysis prepared by Maser Consulting dated August 21, 2017.
- Tower Mapping Report prepared by Provertic LLC dated December 22, 2021.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing tower **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. **The tower structure is rated at 51.9 % - (Legs at Tower Section T4 from EL.53.75' to EL.58.75' Controlling).**

Note: This structural analysis report is for the tower structure ONLY. A separate structural analysis will be required to determine the capacity of the tower base supporting structure.



APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	(1) 27' Whip Antenna	84.75'	Tower Leg
	(1) GPS	73.25'	Tower Leg
AT&T	(3) RRUS 32 B2 RRH's	70'	Sector Frame
AT&T	(3) RRUS 32 B66A RRH's	70'	Sector Frame
AT&T	(3) RRUS 32 B30 RRH's	70'	Sector Frame
AT&T	(3) TPA65R-BU6DA-K Antennas	70'	Sector Frame
AT&T	(3) AIR 6419 Antennas	70'	Sector Frame
AT&T	(3) AIR 6449 Antennas	70'	Sector Frame
AT&T	(3) DMP65R-BU6DA Antennas	70'	Sector Frame
AT&T	(3) DC6 Surge Arrestors	70'	Sector Frame
AT&T	(3) B14 4478 RRH's	70'	Sector Frame
AT&T	(3) 4449 B5/B12 RRH's	70'	Sector Frame
	(1) GPS	60'	Tower Leg

**Proposed AT&T Appurtenances shown in Bold.*

***This page contains confidential, proprietary or trade secret information exempt from disclosure under applicable law.*

AT&T EXISTING COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
AT&T	(6) 1-1/4" Coax Cables	70'	Tower Face
AT&T	(2) 1/2" Coax Cables	70'	Tower Face
AT&T	(1) RET Cable	70'	Tower Face
AT&T	(4) DC Power Cables	70'	Tower Face
AT&T	(2) Fiber Cable	70'	Tower Face
AT&T	(5) DC Power Cables	70'	Tower Face
AT&T	(1) Fiber Cable	70'	Tower Face

**Proposed AT&T Coax Cables shown in Bold.*

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
Legs	51.9 %	53.75 – 58.75	PASS	Controlling
Diagonals	31.3 %	53.75 – 58.75	PASS	
Secondary Horizontal	0.5 %	63.75 – 68.75	PASS	
Top Girt	1.4 %	68.75 – 71.25	PASS	



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DESIGN CRITERIA:

1. EIA/TIA-222-H Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County: Fairfield

Ultimate Wind Speed: 125 mph (3 second gust)

Structural Class: II

Exposure Category: B

Topographic Category: 1

Nominal Ice Thickness: 1 inch

2. Approximate height above grade to proposed antennas: 70'

***Calculations and referenced documents are attached.**

ASSUMPTIONS:

1. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
2. The tower and supporting structure are properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.

SUPPORT RECOMMENDATIONS:

HDG recommends that the proposed antennas, RRH's and surge arrestors be mounted on the proposed sector frame supported by the tower.

Reference HDG's Latest Construction Drawings for all component and connection requirements (attached).



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Photo 1: Photo illustrating the Tower with Appurtenances shown.



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CALCULATIONS

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
27' Whip Antenna	84.75	AIR 6419 Antenna w/ Mounting Pipe (ATI)	70
GPS	73.25		
RRUS 32 B30	70	AIR 6419 Antenna w/ Mounting Pipe (ATI)	70
RRUS 32 B30	70		
RRUS 32 B30	70	AIR 6449 Antenna (ATI)	70
RRUS 32 B2	70	AIR 6449 Antenna (ATI)	70
RRUS 32 B2	70	AIR 6449 Antenna (ATI)	70
RRUS 32 B2	70		
RRUS 32 B6A	70	DMP65R-BU6DA Antenna	70
RRUS 32 B66A	70	DMP65R-BU6DA Antenna	70
RRUS 32 B66A	70	DMP65R-BU6DA Antenna	70
RRUS 32 B66A	70	B14 4478 RRH	70
VFA12-WLL-30120	70	B14 4478 RRH	70
VFA12-WLL-30120	70	4449 B5/B12 RRH	70
VFA12-WLL-30120	70	4449 B5/B12 RRH	70
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	70	4449 B5/B12 RRH	70
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	70	4449 B5/B12 RRH	70
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	70	DC6 Surge Arrestor	70
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	70	DC6 Surge Arrestor	70
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	70	DC6 Surge Arrestor	70
AIR 6419 Antenna w/ Mounting Pipe (ATI)	70	GPS	60

SYMBOL LIST

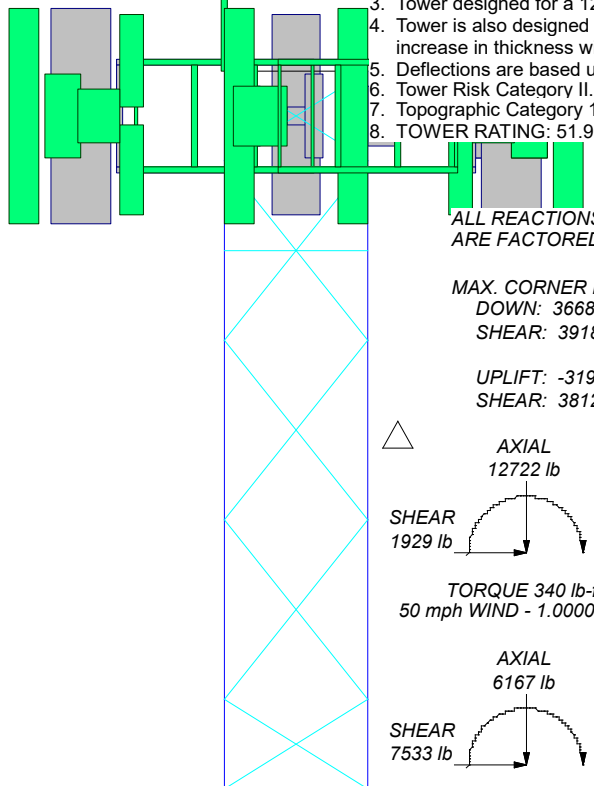
MARK	SIZE	MARK	SIZE
A	L2 1/2x2 1/2x3/16		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36	36 ksi	58 ksi			

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 51.9%

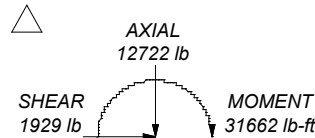


ALL REACTIONS ARE FACTORED

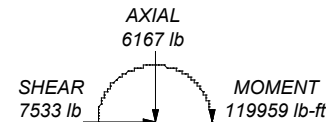
MAX. CORNER REACTIONS AT BASE:

DOWN: 36685 lb
SHEAR: 3918 lb

UPLIFT: -31941 lb
SHEAR: 3812 lb



TORQUE 340 lb-ft
50 mph WIND - 1.0000 in ICE



TORQUE 1219 lb-ft
REACTIONS - 125 mph WIND

Section	T1	T2	T3	T4	T5
Legs	bent plate (1/4")				
Leg Grade	A36				
Diagonals	L2x2x1/8				
Diagonal Grade	A36				
Top Girts	N.A.				
Sec. Horizontals	N.A.	L2 1/2x2 1/2x3/16			
Face Width (ft)	N.A.				
# Panels @ (ft)	1 @ 2.5	3 @ 5	1 @ 2.5		
Weight (lb)	156.0	236.5	198.0	198.0	114.5
	71.3 ft	68.8 ft	63.8 ft	58.8 ft	53.8 ft
					51.3 ft

Hudson Design Group
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North Andover, MA
Phone: 978.557.5553
FAX: 978.336.5586

Job:	CT2120		
Project:	FAIRFILED CENTRAL		
Client:	AT&T	Drawn by:	ID
Code:	TIA-222-H	Date:	01/10/22
Path:	Z:\Shared\Work\GIS\STRUCTURAL\ANALYSIS\SOFTWARE\TruTowers\Tru Towers\AT&T\CT2120\CENTERLINE-C-BAND\CT2120.dwg		
App'd:		Scale:	NTS
Dwg No.	E-1		

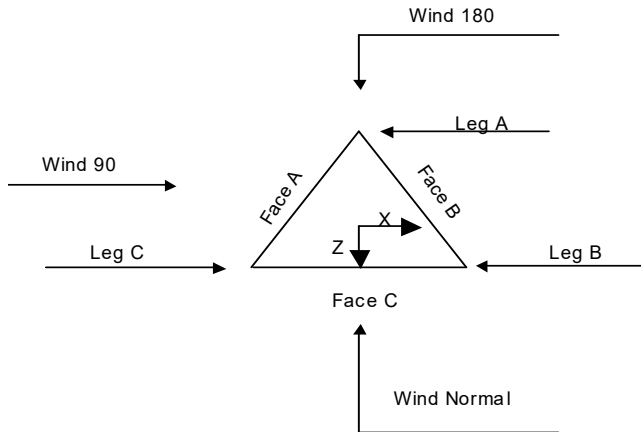
<p>tnxTower</p> <p>Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586</p>	Job CT2120	Page 1 of 10
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Tower Input Data

The main tower is a 3x free standing tower with an overall height of 71.25 ft above the ground line.
The base of the tower is set at an elevation of 51.25 ft above the ground line.
The face width of the tower is 4.00 ft at the top and 4.00 ft at the base.
This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Fairfield County, Connecticut.
- Tower base elevation above sea level: 51.25 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.



Triangular Tower

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Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	71.25-68.75			4.00	1	2.50
T2	68.75-63.75			4.00	1	5.00
T3	63.75-58.75			4.00	1	5.00
T4	58.75-53.75			4.00	1	5.00
T5	53.75-51.25			4.00	1	2.50

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	71.25-68.75	2.50	X Brace	No	No	0.0000	0.0000
T2	68.75-63.75	5.00	X Brace	No	Yes	0.0000	0.0000
T3	63.75-58.75	5.00	X Brace	No	No	0.0000	0.0000
T4	58.75-53.75	5.00	X Brace	No	No	0.0000	0.0000
T5	53.75-51.25	2.50	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
<i>ft</i>						
T1 71.25-68.75	Arbitrary Shape	bent plate (1/4")	A36 (36 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T2 68.75-63.75	Arbitrary Shape	bent plate (1/4")	A36 (36 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T3 63.75-58.75	Arbitrary Shape	bent plate (1/4")	A36 (36 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T4 58.75-53.75	Arbitrary Shape	bent plate (1/4")	A36 (36 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T5 53.75-51.25	Arbitrary Shape	bent plate (1/4")	A36 (36 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
<i>ft</i>						
T1 71.25-68.75	Single Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Pipe		A36 (36 ksi)

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Tower Section Geometry (cont'd)

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
<i>ft</i> T2 68.75-63.75	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement <i>ft</i>	Face Offset <i>in</i>	Lateral Offset <i>(Frac FW)</i>	#	<i>C_{A,A}</i> <i>ft²/ft</i>	Weight <i>plf</i>
1 1/4	A	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0	6	No Ice Ice 1/2" Ice 1" Ice	0.16 0.25 0.35 1.91 3.78
1/2	A	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0	2	No Ice Ice 1/2" Ice 1" Ice	0.06 0.16 0.26 0.25 0.91 2.18
RET Cable	A	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0	1	No Ice Ice 1/2" Ice 1" Ice	0.03 0.13 0.23 1.32 1.81 2.92
DC Cable	C	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0	4	No Ice Ice 1/2" Ice 1" Ice	0.10 0.20 0.30 0.88 2.59 4.09
Fiber Cable (1-1/4")	C	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0.1	2	No Ice Ice 1/2" Ice 1" Ice	0.13 0.23 0.32 0.48 1.55 3.23
** DC Cable	C	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0	5	No Ice Ice 1/2" Ice 1" Ice	0.10 0.20 0.30 0.88 2.59 4.09
Fiber Cable (1-1/4")	C	No	No	CaAa (Out Of Face)	70.00 - 51.25	0.0000	0.1	1	No Ice Ice 1/2" Ice 1" Ice	0.13 0.23 0.32 0.48 1.55 3.23

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Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight lb
T1	71.25-68.75	A	0.000	0.000	0.000	1.346	7.22
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	1.545	11.68
T2	68.75-63.75	A	0.000	0.000	0.000	5.385	28.90
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	6.182	46.73
T3	63.75-58.75	A	0.000	0.000	0.000	5.385	28.90
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	6.182	46.73
T4	58.75-53.75	A	0.000	0.000	0.000	5.385	28.90
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	6.182	46.73
T5	53.75-51.25	A	0.000	0.000	0.000	2.693	14.45
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	3.091	23.36

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight lb
T1	71.25-68.75	A	1.078	0.000	0.000	0.000	3.772	41.92
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	4.780	63.91
T2	68.75-63.75	A	1.072	0.000	0.000	0.000	15.035	166.32
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	19.048	253.91
T3	63.75-58.75	A	1.064	0.000	0.000	0.000	14.959	164.39
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	18.947	251.43
T4	58.75-53.75	A	1.055	0.000	0.000	0.000	14.878	162.31
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	18.839	248.77
T5	53.75-51.25	A	1.048	0.000	0.000	0.000	7.406	80.32
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	9.376	123.31

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
T1	71.25-68.75	-3.1165	-1.3330	-5.6381	-1.7749
T2	68.75-63.75	-5.4647	-2.2704	-8.7269	-2.6887
T3	63.75-58.75	-5.6861	-2.3560	-8.9790	-2.7669
T4	58.75-53.75	-5.6861	-2.3560	-8.9647	-2.7653
T5	53.75-51.25	-5.4216	-2.2536	-8.6046	-2.6575

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Discrete Tower Loads

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert</i> <i>ft ft ft</i>	<i>Azimuth Adjustment</i> <i>°</i>	<i>Placement</i> <i>ft</i>	<i>C_{AA} Front</i> <i>ft²</i>	<i>C_{AA} Side</i> <i>ft²</i>	<i>Weight</i> <i>lb</i>
27' Whip Antenna	C	From Leg	0.00 0.00 0.00	0.0000	84.75	No Ice 8.10 1/2" Ice 10.83 1" Ice 13.58	8.10 10.83 13.58	30.00 88.13 163.22
GPS	C	From Leg	0.50 0.00 0.00	0.0000	73.25	No Ice 0.21 1/2" Ice 0.32 1" Ice 0.44	0.21 0.32 0.44	5.00 7.52 11.31
GPS	C	From Leg	0.50 0.00 0.00	0.0000	60.00	No Ice 0.21 1/2" Ice 0.32 1" Ice 0.44	0.21 0.32 0.44	5.00 7.52 11.31

RRUS 32 B30	A	From Face	2.00 6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B30	B	From Face	2.00 6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B30	C	From Face	2.00 6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B2	B	From Face	2.00 5.00 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B2	B	From Face	2.00 5.00 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B2	B	From Face	2.00 5.00 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B66A	C	From Face	2.00 -6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B66A	C	From Face	2.00 -6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42
RRUS 32 B66A	C	From Face	2.00 -6.50 0.00	0.0000	70.00	No Ice 2.74 1/2" Ice 2.96 1" Ice 3.19	1.67 1.86 2.05	60.00 81.11 105.42

VFA12-WLL-30120	A	From Leg	0.00 0.00 0.00	0.0000	70.00	No Ice 13.20 1/2" Ice 19.50 1" Ice 25.80	9.20 14.60 19.50	658.00 804.00 1015.00
VFA12-WLL-30120	B	From Leg	0.00 0.00 0.00	0.0000	70.00	No Ice 13.20 1/2" Ice 19.50 1" Ice 25.80	9.20 14.60 19.50	658.00 804.00 1015.00
VFA12-WLL-30120	C	From Leg	0.00 0.00 0.00	0.0000	70.00	No Ice 13.20 1/2" Ice 19.50 1" Ice 25.80	9.20 14.60 19.50	658.00 804.00 1015.00
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	A	From Leg	3.00 -6.00 0.00	0.0000	70.00	No Ice 12.73 1/2" Ice 13.23 1" Ice 13.73	7.04 7.99 8.82	90.90 180.74 278.91
TPA65R-BU6DA-K Antenna w/ Mounting Pipe	B	From Leg	3.00 -6.00 0.00	0.0000	70.00	No Ice 12.73 1/2" Ice 13.23 1" Ice 13.73	7.04 7.99 8.82	90.90 180.74 278.91
TPA65R-BU6DA-K Antenna	C	From Leg	3.00	0.0000	70.00	No Ice 12.73	7.04	90.90

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	lb
w/ Mounting Pipe			-6.00			1/2" Ice	13.23	180.74
			0.00			1" Ice	13.73	278.91
AIR 6419 Antenna w/ Mounting Pipe (AT&T)	A	From Leg	3.00	0.0000	70.00	No Ice	4.97	87.90
			0.00			1/2" Ice	5.52	132.90
			1.50			1" Ice	6.00	183.30
AIR 6419 Antenna w/ Mounting Pipe (AT&T)	B	From Leg	3.00	0.0000	70.00	No Ice	4.97	87.90
			0.00			1/2" Ice	5.52	132.90
			1.50			1" Ice	6.00	183.30
AIR 6419 Antenna w/ Mounting Pipe (AT&T)	C	From Leg	3.00	0.0000	70.00	No Ice	4.97	87.90
			0.00			1/2" Ice	5.52	132.90
			1.50			1" Ice	6.00	183.30
AIR 6449 Antenna (AT&T)	A	From Leg	3.00	0.0000	70.00	No Ice	4.05	82.00
			0.00			1/2" Ice	4.32	115.62
			-1.50			1" Ice	4.59	153.14
AIR 6449 Antenna (AT&T)	B	From Leg	3.00	0.0000	70.00	No Ice	4.05	82.00
			0.00			1/2" Ice	4.32	115.62
			-1.50			1" Ice	4.59	153.14
AIR 6449 Antenna (AT&T)	C	From Leg	3.00	0.0000	70.00	No Ice	4.05	82.00
			0.00			1/2" Ice	4.32	115.62
			-1.50			1" Ice	4.59	153.14
DMP65R-BU6DA Antenna	A	From Leg	3.00	0.0000	70.00	No Ice	12.71	96.00
			6.00			1/2" Ice	13.21	169.96
			0.00			1" Ice	13.71	250.56
DMP65R-BU6DA Antenna	B	From Leg	3.00	0.0000	70.00	No Ice	12.71	96.00
			6.00			1/2" Ice	13.21	169.96
			0.00			1" Ice	13.71	250.56
DMP65R-BU6DA Antenna	C	From Leg	3.00	0.0000	70.00	No Ice	12.71	96.00
			6.00			1/2" Ice	13.21	169.96
			0.00			1" Ice	13.71	250.56
B14 4478 RRH	A	From Face	2.00	0.0000	70.00	No Ice	2.02	60.00
			5.50			1/2" Ice	2.20	77.66
			0.00			1" Ice	2.39	98.08
B14 4478 RRH	B	From Face	2.00	0.0000	70.00	No Ice	2.02	60.00
			5.50			1/2" Ice	2.20	77.66
			0.00			1" Ice	2.39	98.08
B14 4478 RRH	C	From Face	2.00	0.0000	70.00	No Ice	2.02	60.00
			5.50			1/2" Ice	2.20	77.66
			0.00			1" Ice	2.39	98.08
4449 B5/B12 RRH	A	From Face	2.00	0.0000	70.00	No Ice	1.97	7.20
			-5.50			1/2" Ice	2.15	25.68
			0.00			1" Ice	2.33	46.97
4449 B5/B12 RRH	B	From Face	2.00	0.0000	70.00	No Ice	1.97	7.20
			-5.50			1/2" Ice	2.15	25.68
			0.00			1" Ice	2.33	46.97
4449 B5/B12 RRH	C	From Face	2.00	0.0000	70.00	No Ice	1.97	7.20
			-5.50			1/2" Ice	2.15	25.68
			0.00			1" Ice	2.33	46.97
DC6 Surge Arrestor	A	From Face	1.00	0.0000	70.00	No Ice	3.05	44.00
			1.00			1/2" Ice	3.26	65.28
			0.00			1" Ice	3.49	89.65
DC6 Surge Arrestor	B	From Face	1.00	0.0000	70.00	No Ice	3.05	44.00
			1.00			1/2" Ice	3.26	65.28
			0.00			1" Ice	3.49	89.65
DC6 Surge Arrestor	C	From Face	1.00	0.0000	70.00	No Ice	3.05	44.00
			1.00			1/2" Ice	3.26	65.28
			0.00			1" Ice	3.49	89.65

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Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft		
T1	71.25 - 68.75	Leg	Max Tension	15	1607.48	-0.00	0.00		
			Max. Compression	31	-4862.51	52.87	3.03		
			Max. Mx	2	-2960.56	-744.45	15.03		
			Max. My	16	-2450.34	-7.85	-1166.02		
			Max. Vy	3	-865.47	323.65	12.85		
			Max. Vx	16	939.45	0.00	0.00		
		Diagonal	Max Tension	6	1161.02	0.00	0.00		
			Max. Compression	19	-1133.57	0.00	0.00		
			Max. Mx	28	56.80	-4.27	-0.24		
			Max. My	18	-735.60	0.84	1.87		
			Max. Vy	31	-8.78	3.44	-0.15		
			Max. Vx	18	-0.79	0.84	1.87		
		Top Girt	Max Tension	3	280.37	0.00	0.00		
			Max. Compression	6	-313.10	0.00	0.00		
			Max. Mx	26	-136.63	-20.26	0.00		
			Max. My	16	-19.99	0.00	0.00		
Max. Vy	26		20.26	0.00	0.00				
Max. Vx	16		-0.00	0.00	0.00				
T2	68.75 - 63.75	Leg	Max Tension	7	5391.64	-330.71	4.17		
			Max. Compression	10	-8751.18	43.44	-2.22		
			Max. Mx	14	5058.80	-332.28	2.45		
			Max. My	4	-2431.69	-6.98	-105.49		
			Max. Vy	22	-175.98	-328.75	-4.50		
			Max. Vx	4	42.98	-7.85	21.26		
		Diagonal	Max Tension	9	3098.58	0.00	0.00		
			Max. Compression	20	-3165.58	-8.02	3.72		
			Max. Mx	8	3086.12	13.41	-2.46		
			Max. My	18	-3072.11	1.84	6.71		
			Max. Vy	30	-10.73	11.01	-0.08		
			Max. Vx	18	2.10	1.84	6.71		
		Secondary Horizontal	Max Tension	2	160.19	0.00	0.00		
			Max. Compression	15	-128.49	-11.59	-2.15		
			Max. Mx	18	-77.34	-18.38	-0.93		
			Max. My	8	-104.04	-13.35	-3.13		
Max. Vy	33		16.02	11.86	0.48				
Max. Vx	12		1.57	0.00	0.00				
T3	63.75 - 58.75	Leg	Max Tension	7	13390.77	-49.28	-2.46		
			Max. Compression	10	-17228.47	68.18	-1.75		
			Max. Mx	10	-17228.47	68.18	-1.75		
			Max. My	12	-1650.41	0.73	-318.66		
			Max. Vy	10	-57.93	68.18	-1.75		
			Max. Vx	2	-114.77	-32.39	277.19		
		Diagonal	Max Tension	20	3428.31	0.00	0.00		
			Max. Compression	9	-3379.62	0.00	0.00		
			Max. Mx	10	2706.76	12.56	0.73		
			Max. My	19	-3100.72	-11.07	5.86		
			Max. Vy	31	-9.83	8.29	0.11		
			Max. Vx	18	1.83	-10.94	5.86		
		T4	58.75 - 53.75	Leg	Max Tension	15	21880.38	-55.46	-12.93
					Max. Compression	10	-25938.74	82.62	-5.21
					Max. Mx	31	-9992.74	102.72	0.49
					Max. My	12	-1752.26	-1.91	-508.56
Max. Vy	19				-53.57	82.26	-4.05		
Max. Vx	2				-100.23	-44.62	435.20		
Diagonal	Max Tension			9	3687.06	14.58	-0.35		
	Max. Compression			20	-3778.52	0.00	0.00		
	Max. Mx			10	2987.57	20.06	0.24		
	Max. My			16	-3195.54	-10.92	4.63		
	Max. Vy			31	-13.07	18.84	-0.04		
	Max. Vx			16	-1.45	-10.92	4.63		

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	CT2120	Page	9 of 10
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	Client	AT&T	Designed by	ID

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T5	53.75 - 51.25	Leg	Max Tension	15	29243.60	-78.11	2.43
			Max. Compression	10	-33835.87	-0.00	-0.00
			Max. Mx	31	-12898.78	102.72	0.49
			Max. My	12	-1905.77	-1.91	-508.56
			Max. Vy	11	56.65	82.79	-5.30
			Max. Vx	12	-231.74	-1.91	-508.56
		Diagonal	Max Tension	8	3103.88	0.00	0.00
			Max. Compression	9	-3096.31	0.00	0.00
			Max. Mx	32	-422.94	-23.00	-1.33
			Max. My	16	-2717.67	-9.57	5.37
			Max. Vy	32	-16.89	0.00	0.00
			Max. Vx	16	-2.28	-9.57	5.37

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
T1	71.25 - 68.75	Leg	bent plate (1/4")	1	-2989.45	66337.00	4.5	Pass	
			bent plate (1/4")	2	-4862.51	66337.00	7.3	Pass	
			bent plate (1/4")	3	-2960.56	66337.00	4.5	Pass	
		Diagonal	L2x2x1/8	7	-1133.57	14253.20	8.0	Pass	
			L2x2x1/8	8	-1055.60	14253.20	7.4	Pass	
			L2x2x1/8	9	-928.40	14253.20	6.5	Pass	
			L2x2x1/8	10	-1060.10	14253.20	7.4	Pass	
			L2x2x1/8	11	-822.59	14253.20	5.8	Pass	
			L2x2x1/8	12	-749.46	14253.20	5.3	Pass	
			Top Girt	L2 1/2x2 1/2x3/16	4	-312.85	22870.80	1.4	Pass
			Top Girt	L2 1/2x2 1/2x3/16	5	-313.10	22870.80	1.4	Pass
			Top Girt	L2 1/2x2 1/2x3/16	6	-310.30	22870.80	1.4	Pass
T2	68.75 - 63.75	Leg	bent plate (1/4")	13	-7695.19	49985.10	15.4	Pass	
			bent plate (1/4")	14	-8751.18	49985.10	17.5	Pass	
			bent plate (1/4")	15	-7703.73	49985.10	15.4	Pass	
		Diagonal	L2x2x1/8	16	-3165.58	12067.10	26.2	Pass	
			L2x2x1/8	17	-3163.46	12067.10	26.2	Pass	
			L2x2x1/8	18	-3026.24	12067.10	25.1	Pass	
			L2x2x1/8	19	-3028.26	12067.10	25.1	Pass	
			L2x2x1/8	20	-2341.20	12067.10	19.4	Pass	
			L2x2x1/8	21	-2341.29	12067.10	19.4	Pass	
			Secondary Horizontal	L2 1/2x2 1/2x3/16	22	160.19	29224.80	0.5	Pass
			Secondary Horizontal	L2 1/2x2 1/2x3/16	23	155.66	29224.80	0.5	Pass
			Secondary Horizontal	L2 1/2x2 1/2x3/16	24	-133.29	28585.30	0.5	Pass
T3	63.75 - 58.75	Leg	bent plate (1/4")	25	-16316.40	49985.10	32.6	Pass	
			bent plate (1/4")	26	-17228.50	49985.10	34.5	Pass	
			bent plate (1/4")	27	-16295.20	49985.10	32.6	Pass	
		Diagonal	L2x2x1/8	28	-3374.70	12067.10	28.0	Pass	
			L2x2x1/8	29	-3379.62	12067.10	28.0	Pass	
			L2x2x1/8	30	-3205.99	12067.10	26.6	Pass	
			L2x2x1/8	31	-3201.23	12067.10	26.5	Pass	
			L2x2x1/8	32	-2704.06	12067.10	22.4	Pass	
			L2x2x1/8	33	-2703.88	12067.10	22.4	Pass	
			T4	58.75 - 53.75	Leg	bent plate (1/4")	34	-25191.60	49985.10
bent plate (1/4")	35	-25938.70				49985.10	51.9	Pass	
bent plate (1/4")	36	-25148.10				49985.10	50.3	Pass	
Diagonal	L2x2x1/8	37			-3778.52	12067.10	31.3	Pass	
	L2x2x1/8	38			-3777.09	12067.10	31.3	Pass	
	L2x2x1/8	39			-3576.48	12067.10	29.6	Pass	
	L2x2x1/8	40			-3577.93	12067.10	29.7	Pass	

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	Client	AT&T	Designed by	ID

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail		
T5	53.75 - 51.25	Diagonal	L2x2x1/8	41	-3218.22	12067.10	26.7	Pass		
		Diagonal	L2x2x1/8	42	-3218.21	12067.10	26.7	Pass		
		Leg	bent plate (1/4")	43	-33183.30	66337.00	50.0	Pass		
		Leg	bent plate (1/4")	44	-33835.90	66337.00	51.0	Pass		
		Leg	bent plate (1/4")	45	-33127.90	66337.00	49.9	Pass		
		Diagonal	L2x2x1/8	46	-3093.31	14253.20	21.7	Pass		
		Diagonal	L2x2x1/8	47	-3096.31	14253.20	21.7	Pass		
		Diagonal	L2x2x1/8	48	-2929.75	14253.20	20.6	Pass		
		Diagonal	L2x2x1/8	49	-2926.56	14253.20	20.5	Pass		
		Diagonal	L2x2x1/8	50	-2741.18	14253.20	19.2	Pass		
		Diagonal	L2x2x1/8	51	-2741.36	14253.20	19.2	Pass		
		Summary								
								Leg (T4)	51.9	Pass
						Diagonal (T4)	31.3	Pass		
						Secondary Horizontal (T2)	0.5	Pass		
						Top Girt (T1)	1.4	Pass		
						RATING =	51.9	Pass		

EXHIBIT 5



Radio Frequency Exposure Analysis Report

May 2, 2022

Centerline on behalf of AT&T
Centerline Communications Project Number: 566540

AT&T Site Name: FAIRFIELD CENTRAL
Site Number: CT2120
FA#: 10035074
USID: 60405

Site Address: 55 WALLS DRIVE, FAIRFIELD, CT 06824

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	96.74641 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	9.6750600000000002%



May 2, 2022

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

RF Exposure Analysis for Site: **FAIRFIELD CENTRAL**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **55 WALLS DRIVE, FAIRFIELD, CT 06824** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

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

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

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

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



Calculation Methodology

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

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



Data & Results

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

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

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



Maximum Calculated Cumulative Power Density (Location: approximately 200' northwest of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
AT&T A 1	CCI TPA65R-BU6D	700	11.45	69.30	4.00	40.00	2234.19	0.00058	466.67	0.00012
AT&T A 1	CCI TPA65R-BU6D	1900	15.25	69.30	4.00	40.00	5359.45	0.00029	1000.00	0.00003
AT&T A 1	CCI TPA65R-BU6D	2100	15.95	69.30	4.00	40.00	6296.80	0.00028	1000.00	0.00003
AT&T A 2	ERICSSON AIR6449	3700	23.55	69.30	1.00	108.40	24548.74	0.00500	1000.00	0.00050
AT&T A 3	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.20	10447.19	24.16858	1000.00	2.41686
AT&T A 3	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.00	10408.63	24.16858	1000.00	2.41686
AT&T A 4	CCI DMP65R-BU6D	700	11.35	69.30	4.00	40.00	2183.33	0.00072	466.67	0.00015
AT&T A 4	CCI DMP65R-BU6D	850	11.35	69.30	4.00	40.00	2183.33	0.00052	566.67	0.00009
AT&T A 4	CCI DMP65R-BU6D	2300	15.25	69.30	4.00	25.00	3349.65	0.00013	1000.00	0.00001
AT&T B 5	CCI TPA65R-BU6D	700	11.75	69.30	4.00	40.00	2393.98	0.00000	466.67	0.00000
AT&T B 5	CCI TPA65R-BU6D	1900	15.25	69.30	4.00	40.00	5359.45	0.00000	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	69.30	4.00	40.00	6296.80	0.00000	1000.00	0.00000
AT&T B 6	ERICSSON AIR6449	3700	23.55	69.30	1.00	108.40	24548.74	0.00002	1000.00	0.00000
AT&T B 7	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.20	10447.19	0.02827	1000.00	0.00283
AT&T B 7	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.00	10408.63	0.02827	1000.00	0.00283
AT&T B 8	CCI DMP65R-BU6D	700	11.75	69.30	4.00	40.00	2393.98	0.00000	466.67	0.00000
AT&T B 8	CCI DMP65R-BU6D	850	11.45	69.30	4.00	40.00	2234.19	0.00000	566.67	0.00000
AT&T B 8	CCI DMP65R-BU6D	2300	15.25	69.30	4.00	25.00	3349.65	0.00000	1000.00	0.00000
AT&T C 9	CCI TPA65R-BU6D	700	11.65	69.30	4.00	40.00	2339.48	0.00040	466.67	0.00009
AT&T C 9	CCI TPA65R-BU6D	1900	15.45	69.30	4.00	40.00	5612.03	0.00026	1000.00	0.00003
AT&T C 9	CCI TPA65R-BU6D	2100	15.95	69.30	4.00	40.00	6296.80	0.00024	1000.00	0.00002
AT&T C 10	ERICSSON AIR6449	3700	23.55	69.30	1.00	108.40	24548.74	0.00500	1000.00	0.00050
AT&T C 11	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.20	10447.19	24.16858	1000.00	2.41686
AT&T C 11	ERICSSON AIR6419	3450	22.85	72.30	1.00	54.00	10408.63	24.16858	1000.00	2.41686
AT&T C 12	CCI DMP65R-BU6D	700	11.65	69.30	4.00	40.00	2339.48	0.00048	466.67	0.00010
AT&T C 12	CCI DMP65R-BU6D	850	11.35	69.30	4.00	40.00	2183.33	0.00013	566.67	0.00002
AT&T C 12	CCI DMP65R-BU6D	2300	15.25	69.30	4.00	25.00	3349.65	0.00012	1000.00	0.00001
Unknown A 13	GENERIC OMNI 12FT	850	8.96	85.30	1.00	12.70	99.95	0.00002	566.67	0.00000
T-Mobile A 14	GENERIC PANEL 6FT	1900	15.84	56.20	2.00	60.00	4604.49	0.00005	1000.00	0.00001
T-Mobile A 15	GENERIC PANEL 6FT	600	12.33	56.20	2.00	60.00	2052.02	0.00008	400.00	0.00002
T-Mobile A 16	GENERIC PANEL 6FT	700	12.33	56.20	2.00	60.00	2052.02	0.00008	466.67	0.00002
T-Mobile A 17	GENERIC PANEL 6FT	2100	15.84	56.20	2.00	60.00	4604.49	0.00005	1000.00	0.00001
T-Mobile B 18	GENERIC PANEL 6FT	1900	15.84	56.20	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile B 19	GENERIC PANEL 6FT	600	12.33	56.20	2.00	60.00	2052.02	0.00000	400.00	0.00000
T-Mobile B 20	GENERIC PANEL 6FT	700	12.33	56.20	2.00	60.00	2052.02	0.00000	466.67	0.00000



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
T-Mobile B 21	GENERIC PANEL 6FT	2100	15.84	56.20	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile C 22	GENERIC PANEL 6FT	1900	15.84	56.20	2.00	60.00	4604.49	0.00019	1000.00	0.00002
T-Mobile C 23	GENERIC PANEL 6FT	600	12.33	56.20	2.00	60.00	2052.02	0.00037	400.00	0.00009
T-Mobile C 24	GENERIC PANEL 6FT	700	12.33	56.20	2.00	60.00	2052.02	0.00037	466.67	0.00008
T-Mobile C 25	GENERIC PANEL 6FT	2100	15.84	56.20	2.00	60.00	4604.49	0.00019	1000.00	0.00002
							Cumulative Power Density:	96.74641 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	9.67506%



Summary

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

Katrina Styx
RF EME Technical Writer
Centerline Communications, LLC

A handwritten signature in black ink, appearing to read "Katrina Styx", is positioned below the typed name and title.

EXHIBIT 6



Town of Fairfield Building Department

725 Old Post Road · Fairfield, CT 06824 · 203.256.3036

PERM# 24676 TYPE BUI MAP/LOT/EX 141 097

HSE#/STREET/UNIT/UN 0055 WALLS DRIVE 0000

OWNER NAME: SCINTO ROBERT D
ADDRESS: ONE CORPORATE DRIVE

SHELTON CT 06484-6208

PHONE: 000 9296300

CONTRACTOR NAME: PETRA CORP
ADDRESS: 153 EAST STREET

NEW HAVEN, CT

PHONE: 203 8656043

LICENSE#: 00000025B1

DESCRIPTION INTERIOR RENOVATONS FOR SNET CELLULAR RADIO CELL SITE
+ REPLACE TOWER

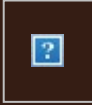
DATE ENTERED 02Nov1995 ISSUED 02Nov1995 EXPIRED 30Apr1996

COST \$23,000.00 RECEIPT 10387 FEE \$186.00 PEN \$0.00

BPERM# 00000 CTYPE ALT OCCUP NRNH

EXHIBIT 7

From: [UPS](#)
To: [Evan Renwick](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030324832454
Date: Monday, May 9, 2022 10:18:16 AM



Hello, your package has been delivered.

Delivery Date: Monday, 05/09/2022

Delivery Time: 10:10 AM

Left At: FRONT DESK

Signed by: BRENDA K



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030324832454
Ship To:	OFFICE OF THE FIRST SELECTWOMAN 725 OLD POST ROAD 2ND FLOOR FAIRFIELD, CT 068246684 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT2120- FIRST SELECTWOMAN



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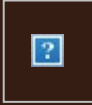
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From: [UPS](#)
To: [Evan Renwick](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030335234679
Date: Monday, May 9, 2022 10:18:14 AM



Hello, your package has been delivered.

Delivery Date: Monday, 05/09/2022

Delivery Time: 10:09 AM

Left At: FRONT DESK

Signed by: RECEP



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030335234679
Ship To:	PLANNING & ZONING DEPARTMENT 725 OLD POST ROAD SULLIVAN INDEPENDENCE HALL FAIRFIELD, CT 068246684 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT2120- CSC PLANNING DIRECTOR



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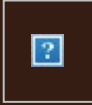
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From: [UPS](#)
To: [Evan Renwick](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030320325287
Date: Monday, May 9, 2022 12:42:09 PM



Hello, your package has been delivered.

Delivery Date: Monday, 05/09/2022

Delivery Time: 12:40 PM

Left At: OFFICE

Signed by: POSADA

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030320325287
Ship To:	RD SCINTO, INC 1 CORPORATE DRIVE SHELTON, CT 064846208 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT2120-CSC ROBERT D. SCINTO

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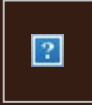
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From: [UPS](#)
To: [Evan Renwick](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030327037068
Date: Monday, May 9, 2022 10:18:14 AM



Hello, your package has been delivered.

Delivery Date: Monday, 05/09/2022

Delivery Time: 10:09 AM

Left At: FRONT DESK

Signed by: RECEP



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030327037068
Ship To:	PLANNING & ZONING DEPARTMENT 725 OLD POST ROAD SULLIVAN INDEPENDENCE HALL FAIRFIELD, CT 068246684 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT2120-CSC ZEO



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