

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

NEW CINGULAR WIRELESS PCS, LLC (AT&T)
PETITION FOR A DECLARATORY RULING,
PURSUANT TO CONNECTICUT GENERAL
STATUTES §4-176 AND §16-50K, FOR THE
INSTALLATION OF A SMALL CELL WIRELESS
TELECOMMUNICATIONS FACILITY IN THE
METRO-NORTH RAILROAD RIGHT-OF-WAY
NEAR 55 HENRY STREET IN GREENWICH,
CONNECTICUT.

PETITION NO._____

March 25, 2022

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Section 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), New Cingular Wireless PCS LLC (“AT&T”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” wireless telecommunications facility on a new pole within the Metro-North Railroad right-of-way near 55 Henry Street in the Town of Greenwich, Connecticut (the “Site”).¹ AT&T proposes to install an approximately 50'-tall Class 2 utility pole that will be owned by AT&T. The proposed pole will stand approximately 43'-tall above grade level (“AGL”). AT&T proposes to mount two small cell antennas at the top of the new utility pole at a centerline height of 41'-2" AGL with a total height of 44'-5" AGL to the top of the antennas. A new equipment cabinet is proposed on the side of the pole. The property is owned by the State and controlled by the Department of Transportation (“DOT”). DOT’s authorization for AT&T to file this Petition is included in **Attachment 1**.

¹ The boundaries of the Metro-North Railroad right-of-way are reflected on the enclosed plans prepared based on the field survey from July 8, 2021. The field survey boundary lines are reflective of the boundaries shown on the Map prepared by Hall & McChesney Inc. titled “New York New Haven & Hartford Railroad Office of Engineer – Real Estate: Land in Greenwich Conn. to be conveyed to Arnold Bakers, Inc.” last revised February 1966 filed with the Town of Greenwich Clerk as Map 4741. Map 4741 is enclosed as **Attachment 3**. The Applicant notes that the boundary lines as shown on the Town of Greenwich Geographic Information System incorrectly depict the boundaries of the lot known as 50 Chestnut Street and referred to as Parcel Number 04-1705/s.

II. Factual Background

a. AT&T's Need for the Proposed Facility

AT&T identified a need for additional coverage and/or capacity relief in its network in this area of the Town of Greenwich. The proposed Facility is designed to assure reliable wireless service to AT&T customers in this area, including those traveling on the Metro-North Railway and the nearby I-95 corridor. AT&T has considered several alternative locations to the proposed pole, including the existing Eversource-owned poles on Henry Street. The existing poles were determined to not be viable alternatives due to the existing equipment on those poles and the potential interference with the overhead wires and the existing risers.² No other suitable poles exist that would provide AT&T the network relief sought.

b. AT&T's Proposed "Small Cell" Facility

AT&T proposes to install its small cell Facility on a new 50'-tall Class 2 utility pole which will stand 43' AGL (7' of the pole will be buried). The proposed pole will be located on property owned by the State of Connecticut within the Metro-North Railroad right-of-way near 55 Henry Street.

AT&T's proposed Facility consists of two antennas mounted to the top of the utility pole and a proposed equipment cabinet attached to the side of the pole. The antennas will be 78.3" in height, 15.4" in width, and 8.2" in depth. AT&T will deploy its 700 MHz, 1900 MHz, and AWS frequencies which will be shared between the two antennas.

The centerline height of AT&T's antennas is approximately 41'-2" AGL. The bottom of the equipment cabinet will be approximately 12'-9" AGL. Specifications and details of AT&T's proposed Facility are shown on the drawings included in **Attachment 2** and photosimulations included in **Attachment 4**. A structural analysis report confirming that the new pole installation will support AT&T's proposed small cell Facility is included in **Attachment 5**. AT&T does not propose to use the pole to support electrical distribution lines. AT&T does not propose any backup power at this location. The approximate cost is \$50,000.

c. Council Jurisdiction

Connecticut law confers jurisdiction to the Council over certain "facilities", including "telecommunication towers." C.G.S. §16-50i(a)(6). State regulations define "tower" as a "structure, whether free standing or attached to a building or another structure... used principally to support one or more antennas for receiving or sending radio frequency signals...." R.C.S.A. §16-50j-2a(30)(A). Utility structures used to support electric distribution lines located within the public right-of-way fall under PURA's jurisdiction. Thus, PURA has jurisdiction over small cell facility attachments to utility poles located within the public right-of-way. PURA, Docket 16-06-38.

² Attachments to utility poles with risers are not allowed by Eversource.

Here, the proposed utility pole will be “used principally to support one or more antennas for receiving or sending radio frequency signals” and the pole will not, for the foreseeable future, be used as a part of the existing electric distribution system. The proposed utility pole along with AT&T’s wireless equipment constitutes a “facility” over which the Council has jurisdiction. This jurisdiction is consistent with the Council’s November 5, 2007 Opinion in Petition No. 809.

III. Discussion

a. The Proposed Small Cell Facility Will Not Have A Substantial Environmental Impact

For the reasons set forth below, AT&T respectfully submits that its proposed small cell Facility will not have a substantial environmental impact and as such a Certificate pursuant to C.G.S. Section 16-50k(a) is not required.

i. Physical Environmental Effects

The proposed utility pole and AT&T’s installation of antennas and associated radio and electrical equipment will not result in any significant physical and environmental change to the property or any adjacent parcels. The new pole will be within the Metro-North right-of-way where such poles are common. The immediate vicinity also includes other utility infrastructure including what appears to be an electrical substation approximately 60’ away. AT&T’s proposed small cell Facility will not require any tree removal and the pole installation involves minimal disturbance. Construction of the new pole by AT&T and installation of the equipment by AT&T will occur Monday through Friday between the hours of 8:00am and 5:00pm.

ii. Visual Effects

The location of the pole is located within the Metro-North Railroad right-of-way. Above-ground utility poles run along the Metro-North Railroad rights-of-way as well as along other nearby streets and right-of-ways. Thus, the proposed pole and Facility are consistent with the existing utility infrastructure in the right-of-way. As shown in the photo-detail included in the photosimulations in **Attachment 4**, the proposed pole and AT&T’s small cell Facility will not result in a significant visual impact to the area.

iii. FCC Compliance

The operation of AT&T’s antennas will not increase the total radio frequency electromagnetic power density at the site to a level at or above applicable standards. A power density report is included in **Attachment 6** which concludes that the maximum power density at ground/street level from the proposed Facility is 22.19% of the FCC’s general public limit. The total radio frequency power density will be well within standards adopted by the Connecticut Department of Environmental Protection as set forth in

Section 22a-162 of the Connecticut General Statutes and the MPE limits established by the FCC.

b. Notice to Municipal Officials and Adjoining Landowners

Pursuant to R.C.S.A. Section 16-50j-40(a), notice of AT&T's intent to file this Petition was sent to each person appearing of record as an owner of property that abuts the site, as well as the appropriate municipal officials and government agencies as listed in C.G.S Section 16-50l. Certification of such notice, a copy of the notice and the list of property owners is included in **Attachment 7** along with the map used to identify abutting property owners. **Attachment 7** also includes a certification of service to municipal officials and government agencies to whom notice was sent.

IV. Conclusion

As set forth above, AT&T's proposed small cell Facility will not result in any known adverse environmental effects. Therefore, and for all the foregoing reasons, AT&T petitions the Council for a determination that the proposed small cell Facility does not require a Certificate of Environmental Compatibility and Public Need and that the Council issue an order approving same.

Respectfully submitted,



Daniel Patrick
On behalf of the Petitioner

cc: First Selectman Fred Camillo, Town of Greenwich
Katie DeLuca, Director of Planning & Zoning, Town of Greenwich
Jacqueline A. Budkins, Town Clerk, Town of Greenwich
AT&T
Nexius
Lucia Chiocchio, Esq.
Meyling Nunez

ATTACHMENT 1



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION
2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546
Phone: (203) 497-3344



February 17, 2022

Kelly Fay
Site Acquisition Specialist
Nexius Solutions, Inc
300 Apollo Drive, 2nd Floor
Chelmsford, MA 01824

Subject: Letter of "No Objection"

AT&T Small Cellular Sites in Greenwich and Stamford
55 Henry Street, Greenwich – CRAN_RCTB_AMTRK_001
Davis Avenue, Greenwich – CRAN_RCTB_AMTRK_002
101 Indian Field Road, Greenwich – CRAN_RCTB_AMTRK_007
97 Hamilton Avenue, Greenwich – CRAN_RCTB_AMTRK_051

Dear Ms. Fay:

This is to confirm the Connecticut Department of Transportation ("Department") has reviewed the subject AT&T Small Cellular Site locations and has "no objection" to the locations proposed by AT&T for cellular facilities construction within the limits of State Rail Right-of-Way as described in the following plans submitted to the Department on October 27, 2021:

'AT&T New England_Nexius_CRAN, CRAN_RCTB_AMTRK_001, USID 291841, 55 Henry Street, Greenwich, CT; Date: October 25, 2021; Map Author: Nexius Solutions, Inc.'; 'AT&T New England_Nexius_CRAN, CRAN_RCTB_AMTRK_002, USID 291392, Davis Avenue, Greenwich, CT; Date: October 27, 2021; Map Author: Nexius Solutions, Inc.'; 'AT&T New England_Nexius_CRAN, CRAN_RCTB_AMTRK_007, USID 291844, 101 Indian Field Road, Greenwich, CT; Date: October 25, 2021; Map Author: Nexius Solutions, Inc.'; and 'AT&T New England_Nexius_CRAN, CRAN_RCTB_AMTRK_051, USID 291384, 97 Hamilton Avenue, Stamford, CT; Date: October 19, 2021; Map Author: Nexius Solutions, Inc.' referred to as "the Plans".

AT&T must continue to coordinate with the Department and Metro-North Railroad ("Railroad") for approval of all future engineering plan submissions and for master license agreement requirements and entry upon State-owned rail property.

If you have any questions please contact Ms. Julie Thomas, Supervising Rail Officer, by phone at (203) 497-3383 or by email at Julie.Thomas@ct.gov.

Respectfully,

Eric Bergeron
Assistant Rail Administrator
Bureau of Public Transportation

Digitally signed by Bergeron, Eric
DN: E=Eric.Bergeron@ct.gov, CN="Bergeron,
Eric",OU=CCO,OU=District-3,
OU=DOT-Users, DC=DOT, DC=CT, DC=GOV
Date: 2022.02.22 10:42:11-05'00'

ATTACHMENT 2



AT&T

PROJECT:

NEW ENGLAND_NEXIUS_CRAN

SITE NAME:

CRAN_RCTB_AMTRK_001

291841

USID:

PACE NUMBER:

MRCTB045225

FA NUMBER:

15122369

PTN NUMBER:

2051A0SRNL

COORDINATES:

41.005310°, -73.655550°

SITE ADDRESS:

55 HENRY STREET
GREENWICH, CONNECTICUT 06830

PROJECT INFORMATION

NEW ENGLAND_NEXIUS_CRAN

CRAN_RCTB_AMTRK_001

291841

MRCTB045225

41.005310°

-73.655550°

55 HENRY STREET

GREENWICH, CONNECTICUT 06830

FAIRFIELD

CITY OF GREENWICH

PROPOSED UTILITY POLE

CT DOT

GROUND ELEVATION:

21± ANSI

NEXIUS SOLUTIONS, INC.

300 BULLDOZER DR, 2ND FLOOR

CHELMSFORD, MA 01824

SITE ACQUISITION:

NEXIUS SOLUTIONS, INC.

300 BULLDOZER DR, 2ND FLOOR

CHELMSFORD, MA 01824

ENGINEERING SERVICES:

NEXIUS SOLUTIONS, INC.

200 BULLDOZER PARKWAY, SUITE 300

FRESCO, TX 76134

EMAIL: JACK.PHIPPSS@nexius.com

AERIAL PHOTO



STRUCTURE PHOTO



SHEET INDEX

SHEET #	SHEET TITLE
T-1	TITLE SHEET
Gn-1	GENERAL NOTES
C-1	POLE ELEVATION
C-2	AERIAL MAP TO SCALE
C-3	SITE PLAN
C-4	SITE SURVEY
C-5	ENLARGED SITE PLAN
EQ-1	EQUIPMENT DETAILS
EQ-2	EQUIPMENT DETAILS
EQ-3	EQUIPMENT DETAILS
E-1	ELECTRICAL AND GROUNDING DETAILS

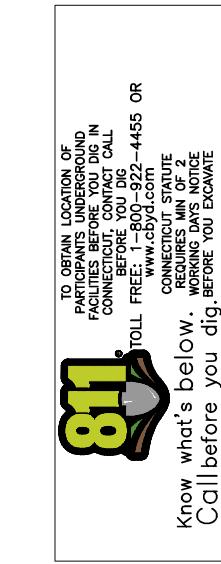
CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING APPLICABLE CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRICAL CODE

THESE DRAWINGS ARE DESIGNED TO THE LATEST CODES. THEY ALSO MEET THE ADOPTED CODE REQUIREMENTS OF THE JURISDICTION LISTED ABOVE.

ONE CALL



SCOPE OF WORK

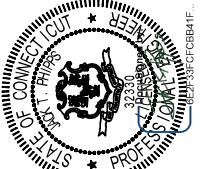
1. INSTALL NEW 50'-0" CLASS 2 (43'-0" A.G.L.) WOOD POLE.
2. INSTALL (2) PROPOSED ANTENAS SIDE MOUNTED ON PROPOSED POLE PER MANUFACTURER'S SPECIFICATIONS.
3. INSTALL (1) EQUIPMENT ENCLOSURE CONTAINING (1) RRU8443, (1) RRU4449 AND (3) FPU 4G 80 ON PROPOSED POLE PER MANUFACTURER'S SPECIFICATIONS.
4. INSTALL (1) METER AND (1) AC DISTRIBUTION BOX/SERVICE DISCONNECT ON PROPOSED POLE PER MANUFACTURER'S SPECIFICATIONS AND PER UTILITY AND NEC REQUIREMENTS.

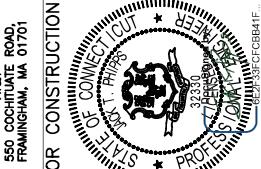
ANY DEVIATION THAT DIFFERS SUBSTANTIALLY FROM WHAT IS SHOWN ON THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER OF RECORD. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK CAN BE MADE DURING CONSTRUCTION WITHOUT ISSUING A CHANGE ORDER.

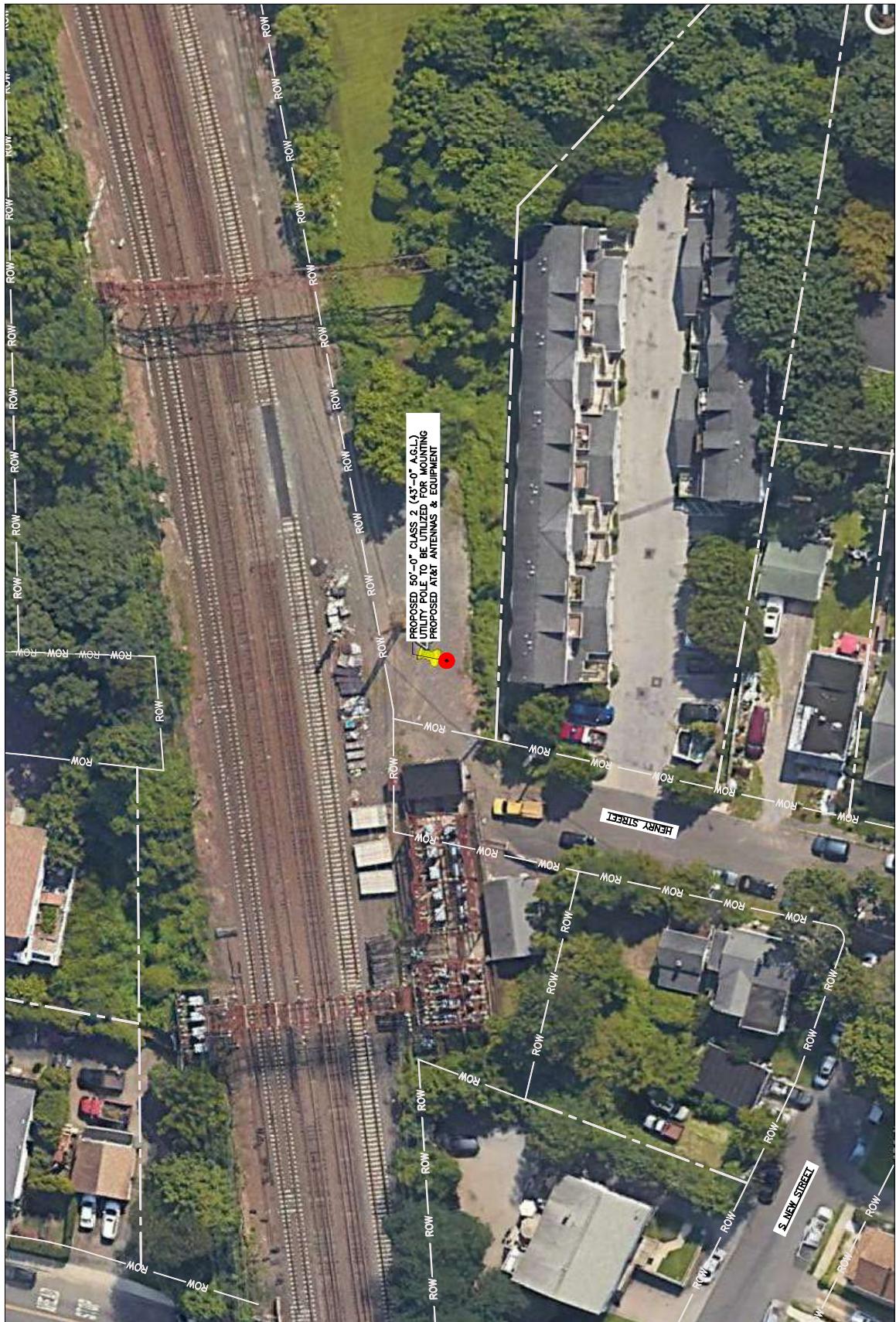
DRAWING SCALES ARE INTENDED FOR 11" x 17" SIZE PRINTED MEDIA ONLY. ALL OTHER SIZES ARE DEEMED "NOT TO SCALE".

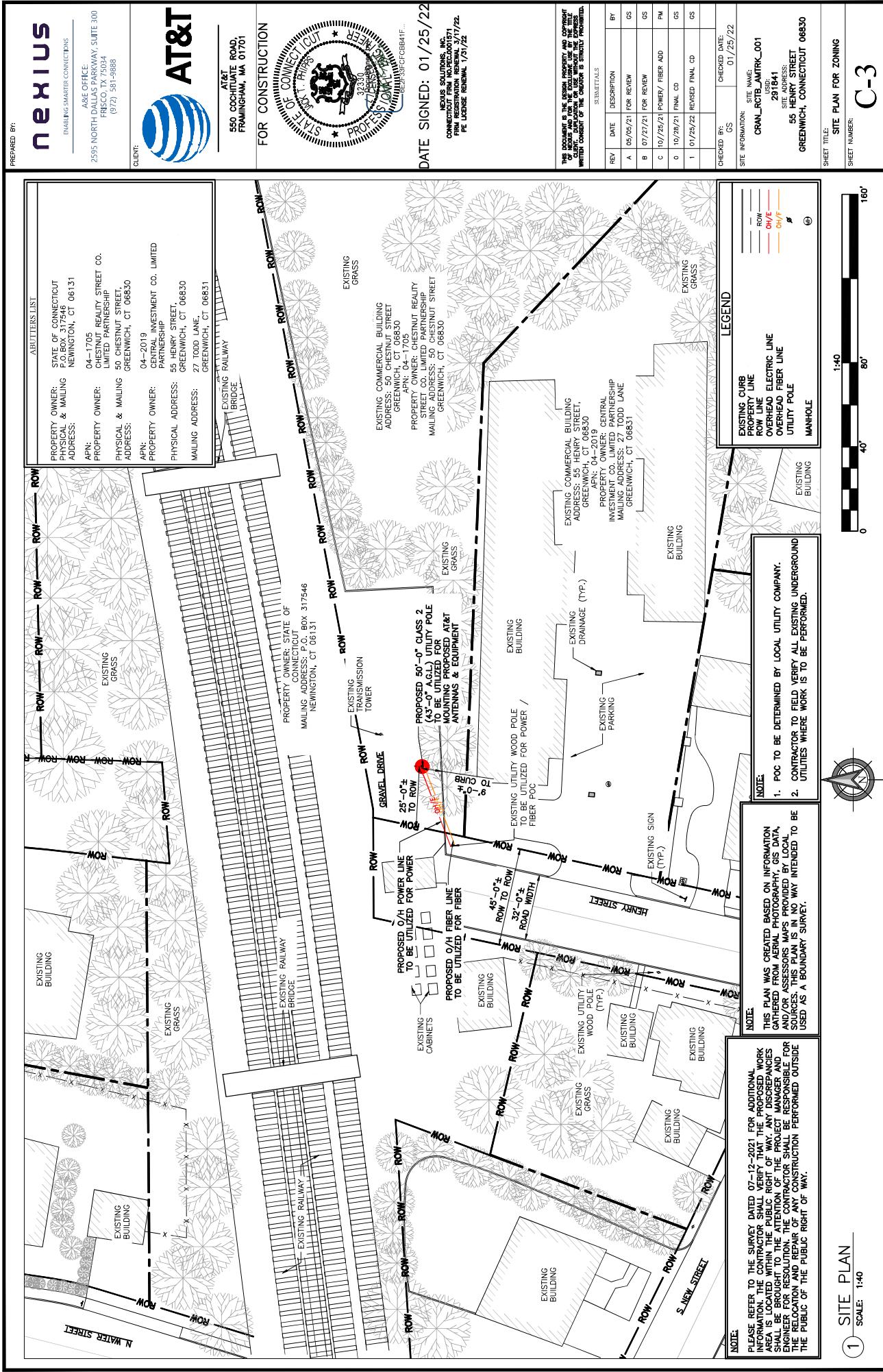
T-1

DRAWING SCALES ARE INTENDED FOR 11" x 17" SIZE PRINTED MEDIA ONLY. ALL OTHER SIZES ARE DEEMED "NOT TO SCALE". THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF THE OWNER IS STRICTLY PROHIBITED.

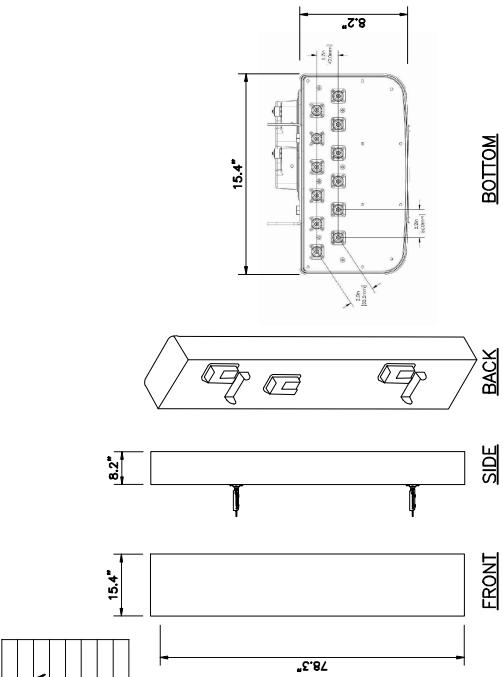
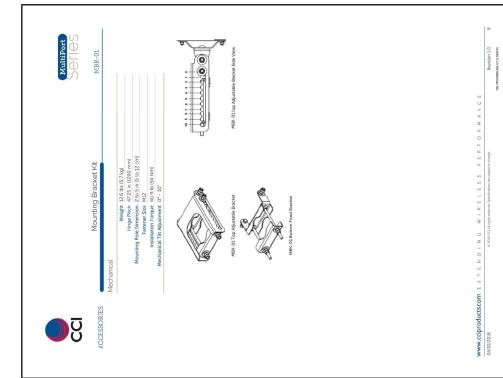
NEXIUS ENABLING SMARTER CONNECTIONS 2595 NORTH DALLAS PARKWAY SUITE 300 FRISCO, TX 75034 (972) 581-9888 AT&T 		PREPARED BY: AT&T 560 COCHITURE ROAD, FRAMINGHAM, MA 01702 FOR CONSTRUCTION 	
NOTES: <ol style="list-style-type: none"> AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADS HAS NOT BEEN COMPLETED BY NEXIUS. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS. AT&T SHALL MAKE ARRANGEMENTS WITH THE LOCAL ELECTRICAL UTILITY TO ADJUST THE POSITION OF THE EXISTING OVERHEAD COMMUNICATION LINES AT SUBJECT UTILITY POLE TO PROVIDE THE REQUIRED CLEARANCE FOR THE INSTALLATION OF THE PROPOSED ANTENNA. THE PROPOSED INSTALLATION OF THE ANTENNA AND ALL APPURTENANCES SHALL MEET THE REQUIREMENTS OF THE POWER COMPANY AND THE 2020 NATIONAL ELECTRICAL SAFETY CODE. VERIFY EQUIPMENT B.O.M. AGAINST RFD'S TO ENSURE YOU HAVE THE RIGHT ANTENNA. NOTIFY YOUR PROJECT PM IF THERE IS A DISCREPANCY IN THE ANTENNA OR MOUNTING BRACKET. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO THE ONSET OF CONSTRUCTION, THAT THE SUPPORTING STRUCTURE(S) AND MOUNTING SYSTEM(S) HAVE BEEN DESIGNED STRUCTURALLY ADEQUATE BY A LICENSED PROFESSIONAL ENGINEER TO SUPPORT THE EXISTING AND PROPOSED EQUIPMENT AND ASSOCIATED CONSTRUCTION LOADS, INCLUDING BUT NOT LIMITED TO THOSE DEPICTED HEREIN. THE CONTRACTOR SHALL ASSUME THE FULL LIABILITY AND RISK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED EQUIPMENT AND/OR APPURTENANCES IF PERFORMED WITHOUT SAWING, STRIPPING, ANALYSIS OR EVALUATION OF THE EXISTING STRUCTURE(S). THE CONTRACTOR IS RESPONSIBLE FOR THE ANALYSIS AND DESIGN OF THE MODIFICATIONS SHALL BE PROPERLY INSTALLED AND COMPLETED PRIOR TO THE ONSET OF CONSTRUCTION. 			
			
PROPOSED (2) ANTENAS WITH SIE MOUNT BRACKET (SEE DETAIL 1-EQ-1) PROPOSED ANTENNA ELEV: 44'-2" ± AGL ♦ PROPOSED UTILITY POLE ELEV: 43'-0" ± AGL ♦ PROPOSED ANTENNA ELEV: 41'-2" ± AGL ♦ PROPOSED (2) AT&T 6.5" X 2.5" NOTICE SIGN PLACED OPPOSITE TO EACH OTHER AT THE BOTTOM OF THE ANTENNA (SEE DETAIL 1-EQ-1) PROPOSED (8) 1/2" COAX JUMPS IN U-GUARD PROPOSED FIBER DEMARCS PROPOSED FIBER ELEV: 27'-4" ± AGL ♦ PROPOSED SECONDARY ELEV: 31'-6" ± AGL ♦ PROPOSED FIBER DEMARCS PROPOSED FIBER ELEV: 27'-4" ± AGL ♦ PROPOSED (3) #16 AWG AND (1) #16 GROUND WIRES INSIDE PROPOSED (1) UV RATED 1-1/4" MIN. SCH 40 PVC CONDUIT. CONDUIT SHALL BE SECURED BY TWO HOLE STRAPS AT 4'-0" INTERVALS PROPOSED EQUIPMENT CABINET (SEE DETAIL 2-EQ-3) PROPOSED (1) RFL-4449 AND (1) RFL-9845 SEE DETAIL (SEE DETAIL 3-EQ-1) PROPOSED (2) CAUTION SIGNS MUST BE PLACED OPPOSITE EACH OTHER ON EQUIPMENT CABINET (SEE DETAIL 1-EQ-3) PROPOSED (3) PSU AC-08 (SEE DETAIL 1-EQ-2) PROPOSED (4) #12 AWG AND (1) #12 GROUND WIRES INSIDE PROPOSED (1) 60 AMP AC MIN SCH 40 PVC CONDUIT. CONDUIT SHALL BE SECURED BY TWO HOLE STRAPS AT 4'-0" INTERVALS DISTRIBUTION BOX & SERVICE DISCONNECT (SEE DETAIL 2-EQ-2) PROPOSED 125 AMP METER SOCKET WITH LEVER BYPASS (SEE DETAIL 4-EQ-2) PROPOSED (1) #6 COPPER GROUND WIRE PROPOSED 50'-0" CLASS 2 UTILITY POLE NO: N/A PROPOSED (1) 8' COPPER CLAD GROUND ROD (5/8" ♦) FIELD SIDE ELEV: 9'-6" ± AGL ♦ PROPOSED BOTTOM OF ELEV: 12'-9" ± (AGL) PROPOSED BOTTOM OF ELEV: 9'-6" ± AGL ♦ PROPOSED METER SOCKET ELEV: 5'-0" ± AGL ♦ FIELD SIDE ELEV: 12'-9" ± (AGL) FIELD SIDE ELEV: 5'-0" ± (AGL) FIELD SIDE ELEV: 10'-8" ± (AGL) 3/16" = 1'-0" 2'-8" 5'-4" 10'-8" 1 POLE ELEVATION SCALE: 3/16" = 1'-0" 2 PHOTO SIMULATION N.T.S.			
DRAWING SCALES ARE INTENDED FOR 11" X 17" SIZE PRINTED MEDIA ONLY. ALL OTHER SIZES ARE DENED "NOT TO SCALE". THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE BY THE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF NEXIUS IS STRICTLY PROHIBITED. DATE SIGNED: 01/25/22 THE DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE OWNER IS STRICTLY PROHIBITED. NEVIS SOLUTIONS, INC. CONNECTICUT FIRM NO:0001571 STATE REGISTRATION NUMBER: 517172 FE LICENSE NUMBER: 10/17/22 SUBMITTALS REV DATE DESCRIPTION BY A 05/05/21 FOR REVIEW GS B 07/27/21 FOR REVIEW GS C 10/25/21 POWER FIBER ADD FM D 10/28/21 FINAL CD GS 1 01/25/22 REVISED FINAL CD GS CHECKED BY: GS CHECKED DATE: 01/25/22 SITE INFORMATION: SITE NAME: CRAN_RCTB_ANTRK_001 USID: 291841 SITE ADDRESS: 55 HENRY STREET GREENWICH, CONNECTICUT 06830 SHEET TITLE: POLE ELEVATIONS SHEET NUMBER: C-1			

NEXIUS <small>ENABLING SMARTER CONNECTIONS</small> A&E OFFICE: 2595 NORTH DALLAS PARKWAY SUITE 300 FRISCO, TX 75034 (972) 581-9888		AT&T <small>560 COCHITURE ROAD, FRAMINGHAM, MA 01702</small> CLIENT: 		FOR CONSTRUCTION 		
				DATE SIGNED: 01/25/22 <small>THE DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF THE DESIGNER. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE DESIGNER IS STRICTLY PROHIBITED.</small>		
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				<small>SHEET TITLE: AERIAL MAP TO SCALE SHEET NUMBER: C-2</small>		
						
						
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						AERIAL MAP 1 SCALE: 1:400





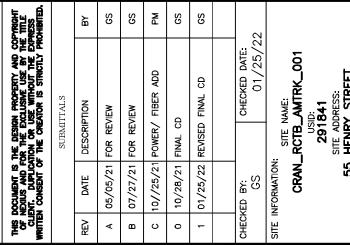
<p>neXius ENABLING SMARTER CONNECTIONS</p> <p>A&E OFFICE: 2595 NORTH DALLAS PARKWAY, SUITE 300 (972) 581-9888</p> <p>CLIENT: AT&T</p> <p>AT&T 55 COCHITURE ROAD, FRAMINGHAM, MA 01701 (978) 630-2330 FOR CONSTRUCTION STATE OF CONNECTICUT PROFESSIONAL LICENSE #001300 EXPIRES 07/31/2024</p>		<p>PREPARED BY:</p>																																
<p>1 ANTENNA DETAIL SCALE: N.T.S.</p> <p>2 ANTENNA BRACKET DETAIL SCALE: N.T.S.</p> <p>3 RRU 8843 DETAIL SCALE: N.T.S.</p> <p>4 RRU 4449 DETAIL SCALE: N.T.S.</p> <p>5 NOT USED SCALE: N.T.S.</p>																																		
<p>DATE SIGNED: 01/25/22</p> <p>THE DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF THE CREATOR. IT IS NOT TO BE COPIED, DUPLICATED, OR USED WITHOUT THE WRITTEN CONSENT OF THE CREATOR. NEXIUS IS THE EXCLUSIVE OWNER OF THE DESIGN.</p> <p>SUBMITTALS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>05/05/21</td> <td>FOR REVIEW</td> <td>GS</td> </tr> <tr> <td>B</td> <td>07/27/21</td> <td>FOR REVIEW</td> <td>GS</td> </tr> <tr> <td>C</td> <td>10/27/21</td> <td>POWER FIBER ADD</td> <td>FM</td> </tr> <tr> <td>O</td> <td>10/28/21</td> <td>FINAL CD</td> <td>GS</td> </tr> <tr> <td>1</td> <td>01/25/22</td> <td>REVISED FINAL CD</td> <td>GS</td> </tr> <tr> <td></td> <td></td> <td>CHECKED BY:</td> <td>CHECKED DATE:</td> </tr> <tr> <td></td> <td></td> <td>GS</td> <td>01/25/22</td> </tr> </tbody> </table> <p>SITE INFORMATION: SITE NAME: CRAN_RCTB_ANTRK_001 USID: 291841 SITE ADDRESS: 55 HENRY STREET GREENWICH, CONNECTICUT 06830</p> <p>SHEET TITLE: EQUIPMENT DETAILS SHEET NUMBER: EQ-1</p>			REV	DATE	DESCRIPTION	BY	A	05/05/21	FOR REVIEW	GS	B	07/27/21	FOR REVIEW	GS	C	10/27/21	POWER FIBER ADD	FM	O	10/28/21	FINAL CD	GS	1	01/25/22	REVISED FINAL CD	GS			CHECKED BY:	CHECKED DATE:			GS	01/25/22
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C	10/27/21	POWER FIBER ADD	FM																															
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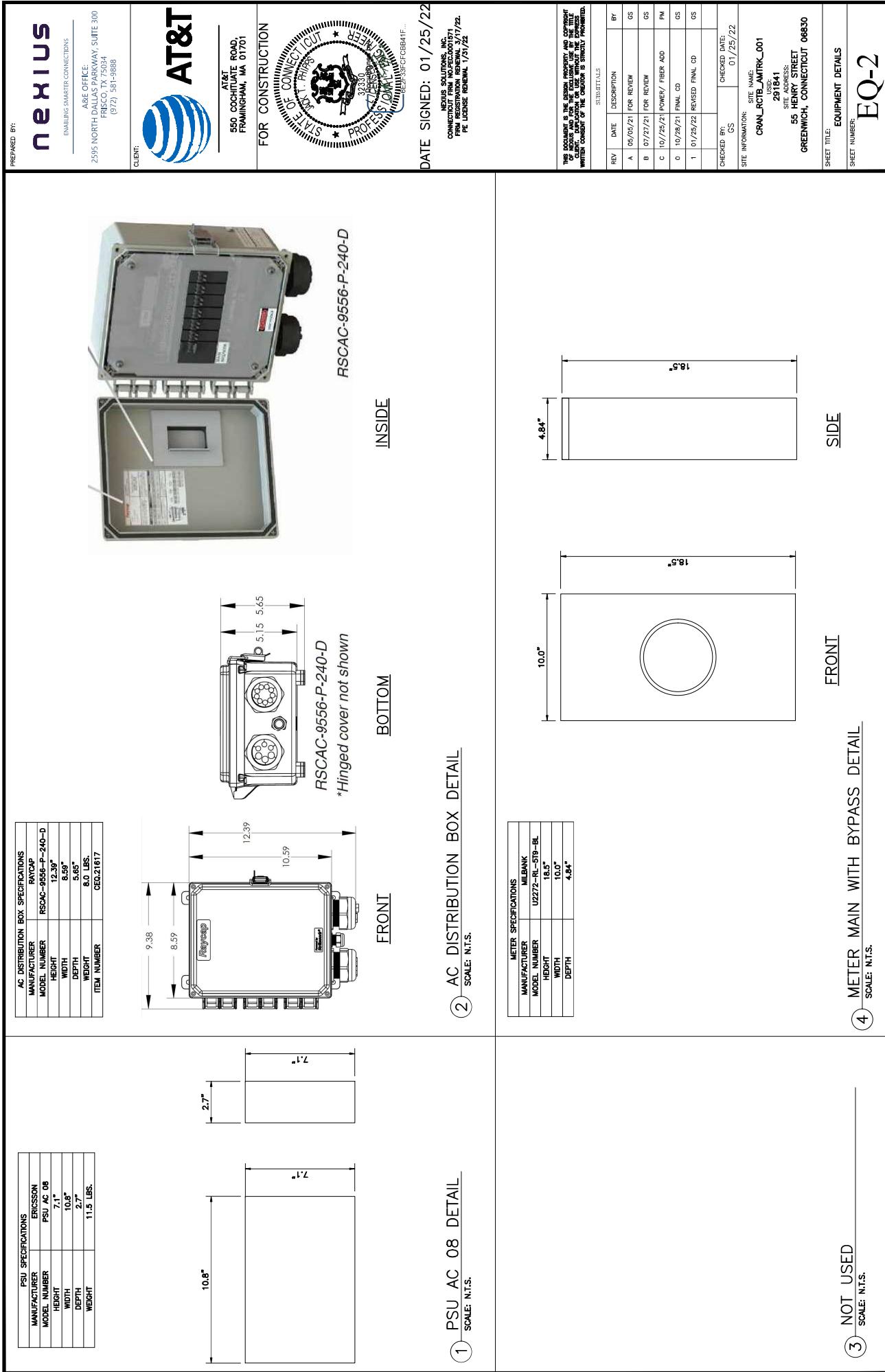


ANTENNA SPECIFICATIONS	
MANUFACTURER	CCI
MODEL NUMBER	TR4449-AUSA
HEIGHT	78.5"
WIDTH	15.4"
DEPTH	8.2"
WEIGHT	55.9 LBS.
ITEM NUMBER	ANT118974

RRU 8843 SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL NUMBER	RRU 8843
HEIGHT	14.9"
WIDTH	13.2"
DEPTH	10.9"
WEIGHT	72 LBS.

RRU 4449 SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL NUMBER	RRU 4449
HEIGHT	14.9"
WIDTH	13.2"
DEPTH	10.9"
WEIGHT	72 LBS.





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NOTES:

1. EQUIPMENT AND LAYOUT SHOWN IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO PROPOSED SITE PLAN AND POLE ELEVATION FOR ACTUAL EQUIPMENT LOCATIONS AND CONDITIONS.
2. ALL ELECTRICAL WORK MUST MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
3. BONDING AND GROUNDING TO MEET APPLICABLE NEC REQUIREMENTS.

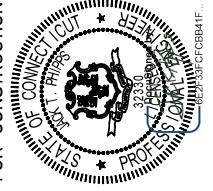
NEXIUS

ENABLING SMARTER CONNECTIONS

A&E OFFICE:
2595 NORTH DALLAS PARKWAY SUITE 300
FORT WORTH, TX 76134
(972) 581-9888



AT&T
560 COCHITURE ROAD,
FRAMINGHAM, MA 01702
FOR CONSTRUCTION



DATE SIGNED: 01/25/22
CONTRACT NUMBER: 001571
FROM: NEVUS SOLUTIONS, INC.
TO: AT&T
DATE RECEIVED: 01/27/22

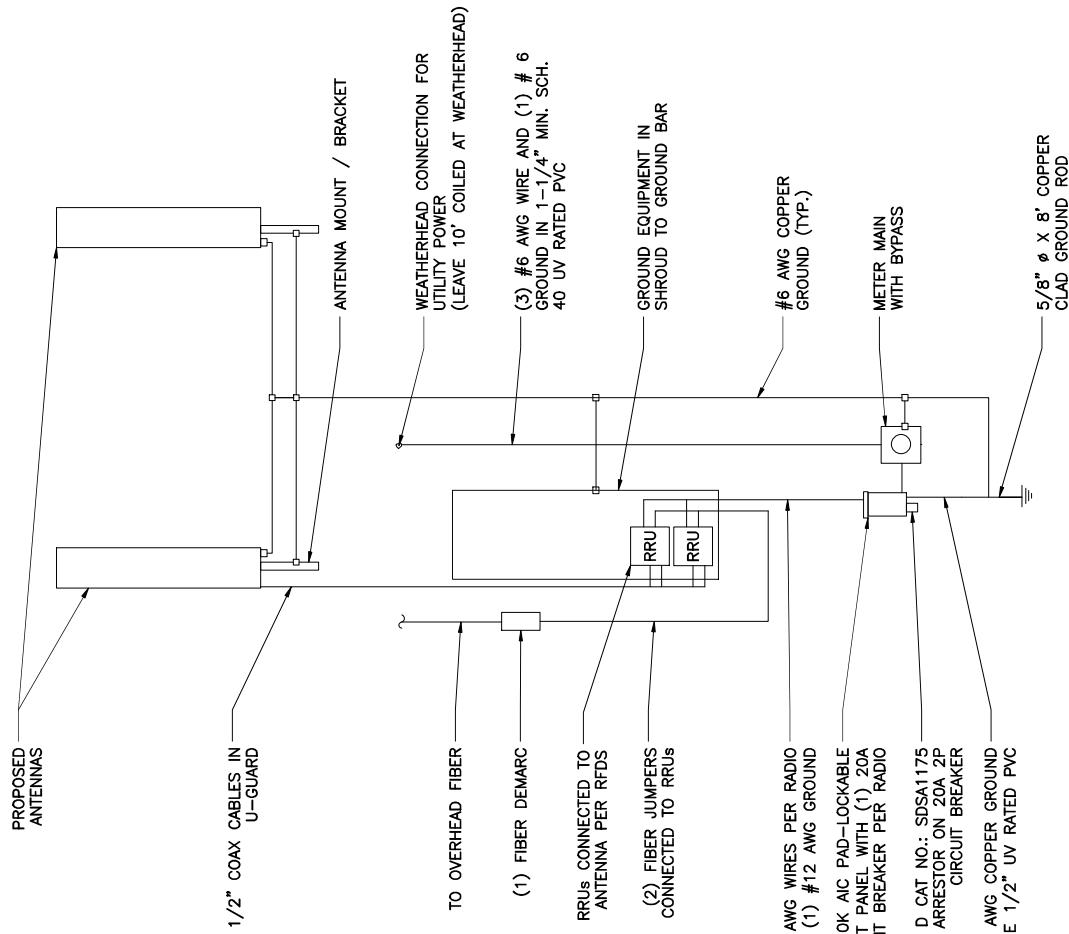
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SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	01/25/22	FOR REVIEW	GS
B	01/27/22	FOR REVIEW	GS
C	01/27/22	POWER FIBER ADD.	FM
0	10/28/22	FINAL CD	GS
1	01/25/22	REVISED FINAL CD	GS
		CHECKED BY:	CHECKED DATE:
		GS	01/25/22

SITE INFORMATION: SITE NAME: CRAN_RCTB_ANTRK_001
USID: 291841
SITE ADDRESS: 55 HENRY STREET
GREENWICH, CONNECTICUT 06830

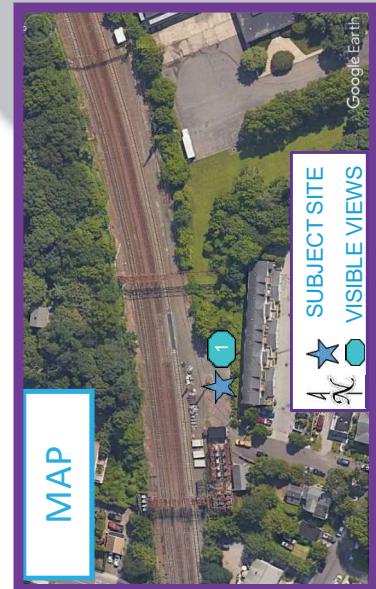
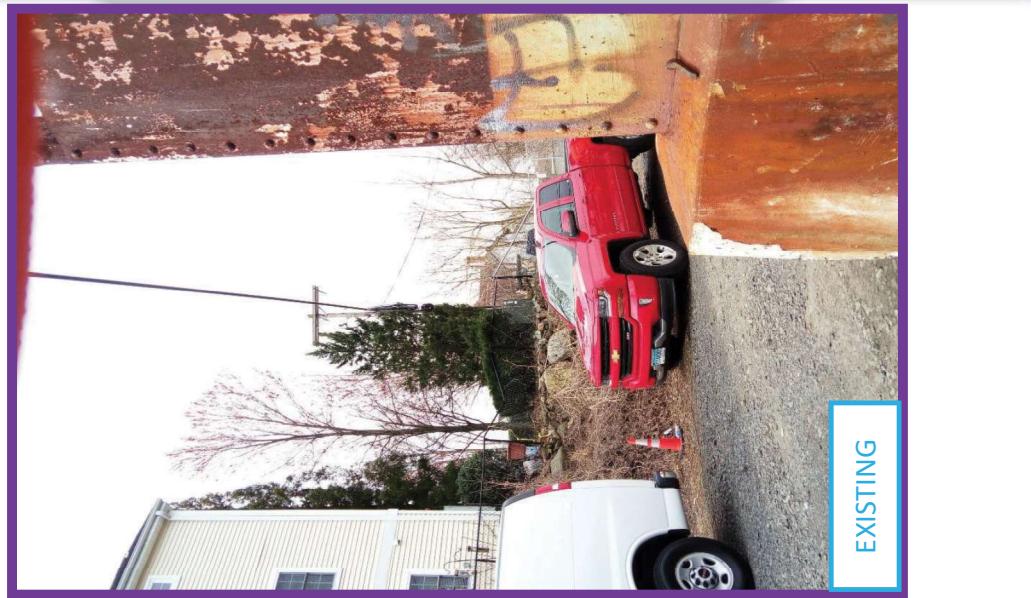
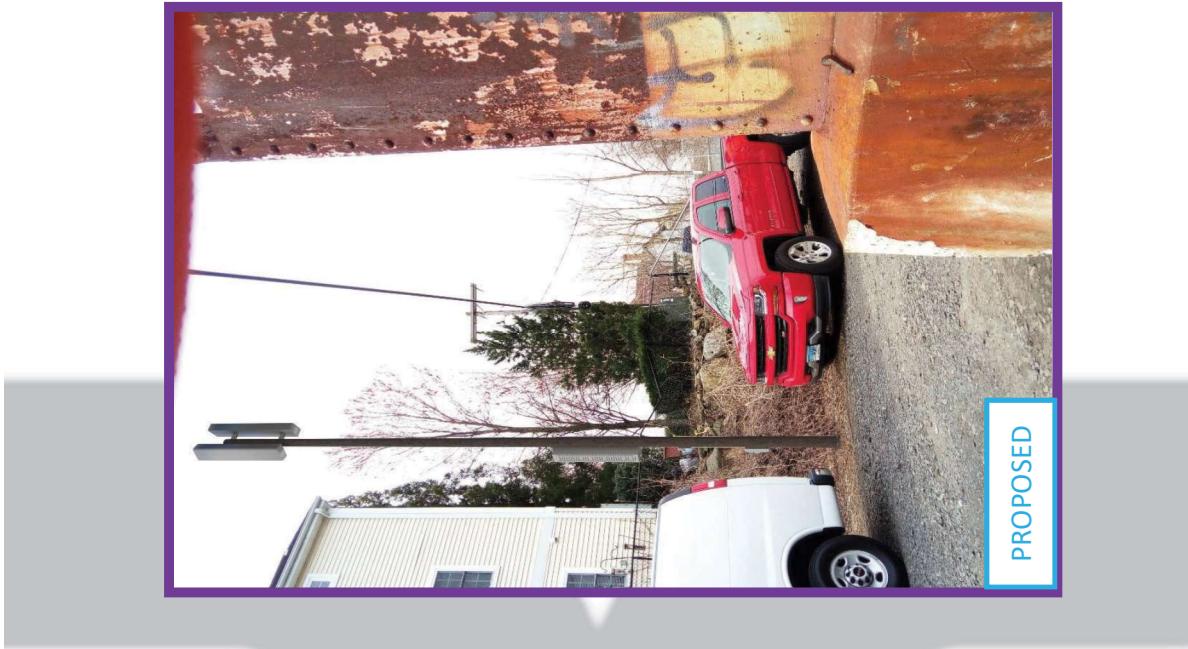
SHEET TITLE: ELECTRICAL AND GROUNDING DETAILS
SHEET NUMBER: E-1



1 GENERAL WIRING DIAGRAM
SCALE: N.S.

ATTACHMENT 3

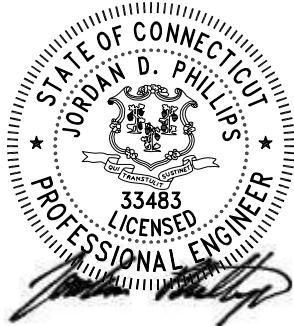
ATTACHMENT 4



ATTACHMENT 5

n e x i u s

Engineering Structural Analysis Report



Jordan D Phillips PE

Digitally signed by Jordan D Phillips PE
DN: C=US,
E=jordan.phillips@nexus.com,
O="Nexus Solutions, Inc.", OU=A/E
Group - Structural Engineering,
CN=Jordan D Phillips PE
Location: Sylvan Lake, MI
Reason: I am the author of this
document
Contact Info: (248) 709-3642
Date: 2022.01.26 06:44:25-05'00'

CRAN_RCTB_AMTRK_001

Proposed

MRCTB045225

1/26/2022

ADEQUATE

Engineering Structural Analysis Report

Reference: Assessment of the **Proposed** 50-ft Class 2 Wooden Pole.

Cascade ID - Candidate: CRAN_RCTB_AMTRK_001

Site Address: 55 HENRY ST, GREENWICH, CT 06830

We are pleased to provide you with our engineering assessment of the 50-ft Wooden Pole located at 55 HENRY ST, GREENWICH, CT 06830.

The pole analyzed for this project is a 50-ft tall, Class 2 pole. The program calculates an applied wind load on the surface area of the attachments and multiplies that by the height of the attachment to determine a bending moment in the pole (WL load and BM). It also calculates the vertical loads applied and adds the moment due to the applied gravity loads. The calculated moment is compared to the pole capacity and capacity utilization is calculated. The final calculations for this pole indicate a capacity utilization is 71.6%. This is below the maximum allowable capacity utilization, 100%, so it is determined that the applied loads and configuration is acceptable for this pole.

Existing information such as pole height, line types, line heights and depth of set are based on site photographs gathered by Nexus staff. Line and equipment heights are determined based on standard spacing requirements set forth by the pole owner and standard industry practices. If any of these assumptions are not valid or made in error, the conclusion of this assessment may be affected and NEXIUS should review the effect on the structural integrity of the pole.

To the best of our knowledge and based on the result of this pole loading calculation, the additional loadings to the existing pole will not compromise the structural integrity of this utility/streetlight pole. This pole loading calculation satisfies the minimum requirements set forth by the National Electric Code, National Electric Safety Code, ANSI O5 utility pole standards, and the pole owner's attachment standards. If any of these assumptions are not valid or made in error, the conclusion of this assessment may be affected and NEXIUS should review the effect on the structural integrity of the pole.

Please contact us if you have any questions.

ASSUMPTIONS AND LIMITATIONS OF ANALYSIS

Please note the following assumptions and limitations inherent in this analysis and report:

- A) The equipment configuration is as per "15122369.AE201.220125.REV 1" Drawings by NEXIUS, dated 01/25/2022.

If any of these assumptions are not valid or made in error, the conclusion of this assessment may be affected and NEXIUS should review the effect on the structural integrity of the pole.

<u>Proposed Final Equipment</u>		
Item	Model	Quantity
Antenna	CCI TPA45R-KU6A w/ Mount Bracket	2
Meter	Milbank U2272-RL-5T9-BL	1
AC Distribution Box/Service Disconnect	Raycap RSCAC-9556-P-240-D	1
Equipment Enclosure	Charles SH60-702018DNE7	1
Radio	Ericsson 8843	1*
Radio	Ericsson 4449	1*
PSU	Ericsson PSU AC 08	3*

*Located inside Equipment Enclosure

CONCLUSIONS & RECOMMENDATIONS:

The **proposed** 50-ft wooden pole has been found **ADEQUATE** to support its overall and total load subject to the attached Standard Conditions on **page 4** and the above-mentioned assumptions and limitations.

Please note that the soils report for the foundation were not available to us at the time of this analysis, therefore, the soil conditions have been assumed.

Should you have any questions, comments or require additional information, please do not hesitate to call.

Sincerely,

Analysis by: Gaelle Ghanem

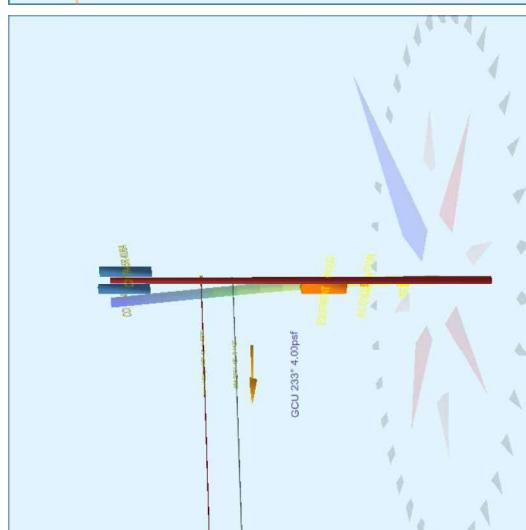
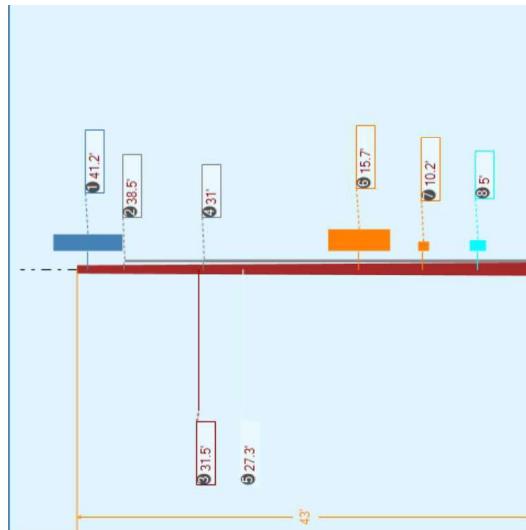
Reviewed by: Jordan Phillips, PE

**Standard Conditions for Providing Structural Consulting Services on
Existing Structures**

1. If the existing conditions are not as represented in this structural report or attached sketches, we should be contacted to evaluate the significance of the deviation and revise the structural assessment accordingly.
2. The structural analysis has been performed assuming that the structure is in “like new” condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, etc. If there are any known deficiencies in the structure that potentially compromise structural integrity, we should be made aware of the deficiencies. If we are aware of a deficiency that exists in a structure at the time of our analysis, a general explanation of the structural concern due to the deficiency will be included in the structural report, but the deficiency will not be reflected in capacity calculations.
3. The structural analysis provided is an assessment of the primary load carrying capacity of the structure. We provide a limited scope of service, in that we have not verified the capacity of every weld, plate, connection detail, etc. In most cases, structural fabrication details are unknown at the time of our analysis, and the detailed field measurement of this information is beyond the scope of our services. In instances where we have not performed connection/component capacity calculations, it is assumed that existing manufactured connection/component develop the full capacity of the primary members being calculated.
4. We will not accept any liability for the adequacy of the existing foundation system unless accurate structural foundation drawings are provided with a site-specific geotechnical report. Foundations will be assumed installed per the drawings with no construction deficiency due to initial installation or age.
5. Miscellaneous items such as antenna mounts, coax supports, etc. have not been designed, detailed, or specified as part of our work. It is assumed that material of adequate size and strength will be purchased from a reputable component manufacturer. The attached report and sketches are schematic in nature and should not be used to fabricate or purchase hardware and accessories to be attached to the structure. We recommend field measurement of the structure before fabricating or purchasing new hardware and accessories. We are not responsible for proper fit and clearance of hardware and accessory items in the field.
6. The structural analysis has been performed considering minimum code requirements or recommendations. If alternate wind, ice, or deflection criteria are to be considered, then we shall be made aware of the alternate criteria.

Pole Num:	N/A	Pole Length / Class:	50 / 2	Code:	NESC	Structure Type:	Deadend
Customer:	AT&T	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Unguyed
Site Name:	CRAN_RCTB_AMTRK_001	Setting Depth (ft):	7.00	Construction Grade:	B	Pole Strength Factor:	0.65
USID:	291841	G/L Circumference (in):	41.61	Loading District:	Heavy	Transverse Wind LF:	2.50
Site Address:	55 Henry St	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.50	Wire Tension LF:	1.65
Pole Owner:	CT DOT	Allowable Stress (psi):	5,200	Wind Speed (mph):	39.53	Vertical LF:	1.50
Proposed RAD Center (AGL):	41'-2"	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:	41.0005310 Deg	Longitude:	21 Feet				

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	71.6	0.0
Groundline	71.6	0.0
Vertical	7.0	20.6



Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 229.1°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	823	32.9	25,905	36.8	26.2	1,363	24	0	1,363	26.2
Comms	823	32.9	22,472	31.9	22.7	1,183	44	0	1,183	22.7
GenericEquipments	387	15.5	11,856	16.9	12.0	624	820	6	630	12.1
Pole	379	15.1	8,055	11.5	8.2	424	2,422	18	441	8.5
Risers	90	3.6	2,066	2.9	2.1	109	104	1	109	2.1
Insulators	0	0.0	8	0.0	0.0	0	9	0	0	0.0
Pole Load	2,503	100.0	70,362	100.0	71.2	3,703	3,423	25	3,727	71.7
Pole Reserve Capacity			28,511		28.8	1,497			1,473	28.3

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 229.1°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	2,124	84.9	62,307	88.6	63.0	3,279	1,002	7	3,286	63.2
CT DOT	379	15.1	8,055	11.5	8.2	424	2,422	18	441	8.5
Totals:	2,503	100.0	70,362	100.0	71.2	3,703	3,423	25	3,727	71.7

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	DUPLEX 6 AWG	31.50	6.94	0.5370	0.40	0.071	45.0	225.0	45.0	500	25,921	-11	9	25,919
										Totals:	25,921	-11	9	25,919
Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Overlashed Bundle Telco	6M BELOPTIX AT072 - 72 FIBERS - ARMORED (0.657)	27.33	7.44	0.2420	0.02	0.104	45.0	225.0	45.0	500	22,492	-8	8	22,492
		27.28	7.44	0.6570		0.190			45.0	225.0		-10	3	-7
										Totals:	22,492	-18	10	22,485

Generic Equipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	CCI TPA45R-KU6A		41.17	16.19	90.0	0.0	81.10	78.30	8.20	--	15.40	-124	4,481	4,357
Box	CCI TPA45R-KU6A	EQUIPMENT	41.17	16.19	270.0	0.0	81.10	78.30	8.20	--	15.40	124	4,480	4,605
Box	SHROUD		15.67	14.66	180.0	0.0	360.50	70.00	18.00	--	20.00	433	2,286	2,719
Box	AC DISTRIBUTION		10.18	8.82	180.0	0.0	8.00	12.39	5.65	--	8.59	6	95	101
Box	METER		5.00	8.74	180.0	0.0	16.00	18.50	4.84	--	10.00	11	71	82
		Totals:										450	11,413	11,863

Riser		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser- 2" 270.0°	Riser- 2"		38.50	6.81	270.0	270.0	38.50	462.00	2.00	2.00	462.00	16	997	1,013
Riser- 2" 330.0°	Riser- 2"		31.00	6.81	330.0	330.0	31.00	372.00	2.00	2.00	372.00	-3	1,057	1,054
		Totals:										13	2,054	2,067

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Spool	Spool 2.5"		31.50	0.00	90.0	0.0	1.00	2.50	2.12	-1	12	11	11	11
Bolt	Single Bolt		27.33	0.00	0.0	0.0	5.00	3.00	0.00	-3	0	0	-3	-3
		Totals:										4	12	8

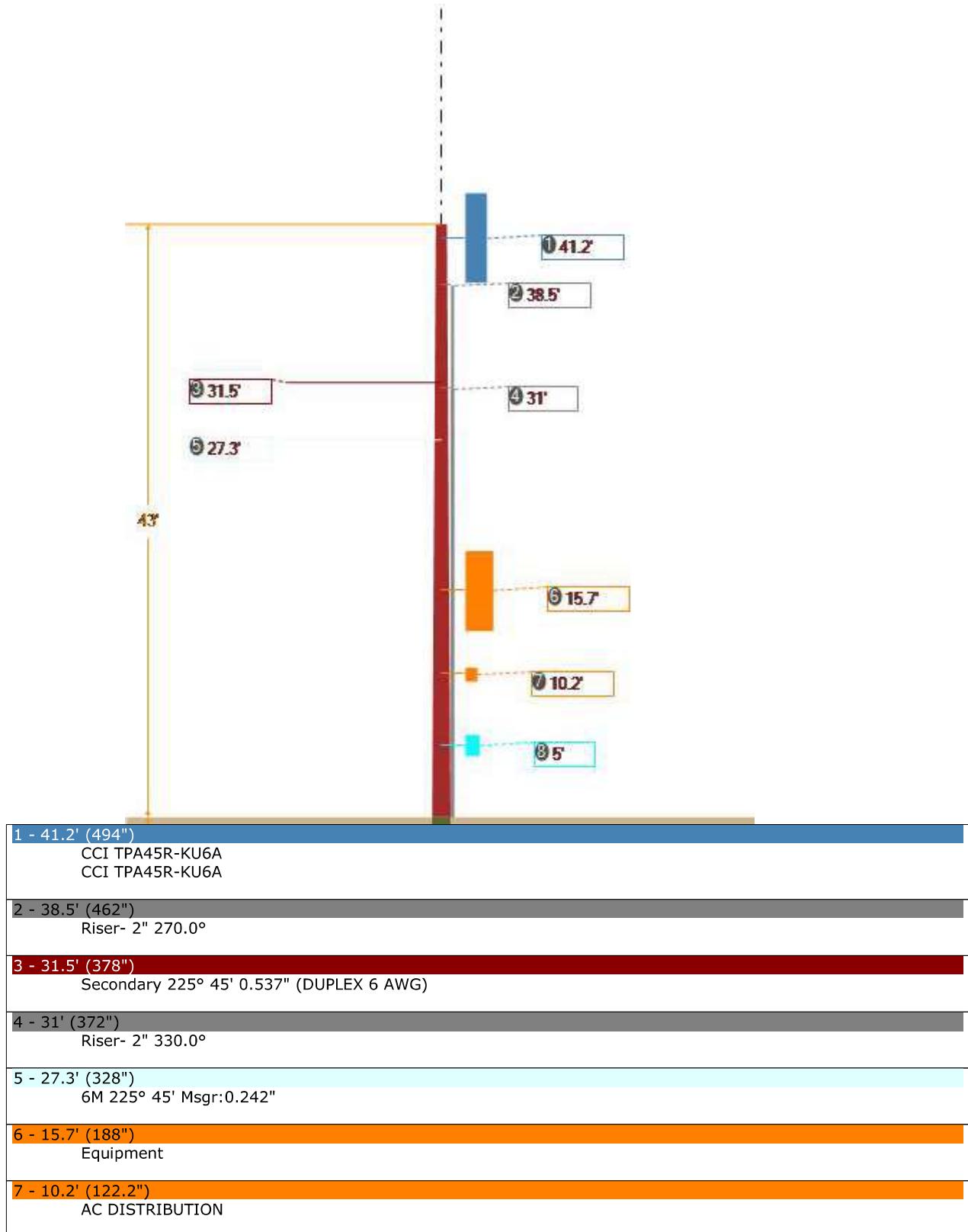
Pole Buckling		Buckling Column Height* (ft)	Buckling Section Height* (% Buckling Col. Hgt.)	Buckling Diameter at GL (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	20.60	32.87	12.41	15.16	7.96	13.25	1.60e+6	60.00	57.00	43.00	48,922	489.05 14.29

O-Calc® Pro Schematic View

Pole Identification: N/A

Report Created: 1/26/2022

File: Pole_MRCTB045225.pplx



8 - 5' (60")
Equipment

ATTACHMENT 6

Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report

Site No. 15122369
MRCTB045225
CRAN_RCTB_AMTRK_001
55 Henry Street
Greenwich, Connecticut 06830
Fairfield County
41.00531000; -73.65555000 NAD83
Utility Pole

**The proposed AT&T installation will be in compliance with FCC regulations
upon proper installation of recommended signage.**

EBI Project No. 6222000607
February 7, 2022



Prepared for:
AT&T Mobility, LLC
c/o Nexus
2999 Oak Road, Suite 110
Walnut Creek, California 94597

Prepared by:



TABLE OF CONTENTS

EXECUTIVE SUMMARY.....	1
1.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS	3
2.0 AT&T RF EXPOSURE POLICY REQUIREMENTS	5
3.0 WORST-CASE PREDICTIVE MODELING.....	5
4.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN	7
5.0 SUMMARY AND CONCLUSIONS.....	8
6.0 LIMITATIONS	8

APPENDICES

Appendix A Personnel Certifications
Appendix B Compliance/Signage Plan

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by AT&T Mobility, LLC to conduct radio frequency electromagnetic (RF-EME) modeling for AT&T Site 15122369 located at 55 Henry Street in Greenwich, Connecticut to determine RF-EME exposure levels from existing AT&T wireless communications equipment at this site. As described in greater detail in Section 1.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains the RF EME analysis for the site, including the following:

- Site Plan with antenna locations
- Graphical representation of theoretical MPE fields based on modeling
- Graphical representation of recommended signage and/or barriers

This document addresses the compliance of AT&T's transmitting facilities independently and in relation to all collocated facilities at the site.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled exposures on any accessible utility line level and ground walking/working surface related to ATT's existing antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

As such, the proposed AT&T installation is in compliance with FCC regulations upon proper installation of recommended signage and/or barriers.

AT&T Recommended Signage/Compliance Plan

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Site compliance recommendations have been developed based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, additional guidance provided by AT&T, EBI's understanding of FCC and OSHA requirements, and common industry practice. Barrier locations have been identified (when required) based on guidance presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014.

The following signage is recommended at this site:

- Install 7 by 7-inch CAUTION sign on the equipment cabinet on the side of the utility pole.

The signage proposed for installation at this site complies with AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document and therefore complies with FCC and OSHA requirements. Barriers are not recommended on this site. To reduce the risk of exposure and/or injury, EBI recommends that access to the utility pole or areas associated with the active antenna installation be restricted and secured where possible. More detailed information concerning site compliance recommendations is presented in Section 4.0 and Appendix B of this report.

1.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

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 public/uncontrolled limits (see below), 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.

General public/uncontrolled exposure limits apply to situations in which the general public 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 public 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.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the AT&T equipment operating at 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². For the AT&T equipment operating at 700 MHz, the FCC's occupational MPE is 2.33 mW/cm² and an uncontrolled MPE of 0.47 mW/cm². These limits are considered protective of these populations.

Table I: Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time [E]², [H]², or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6

Table I: Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
-----------------------	-----------------------------------	-----------------------------------	---	---

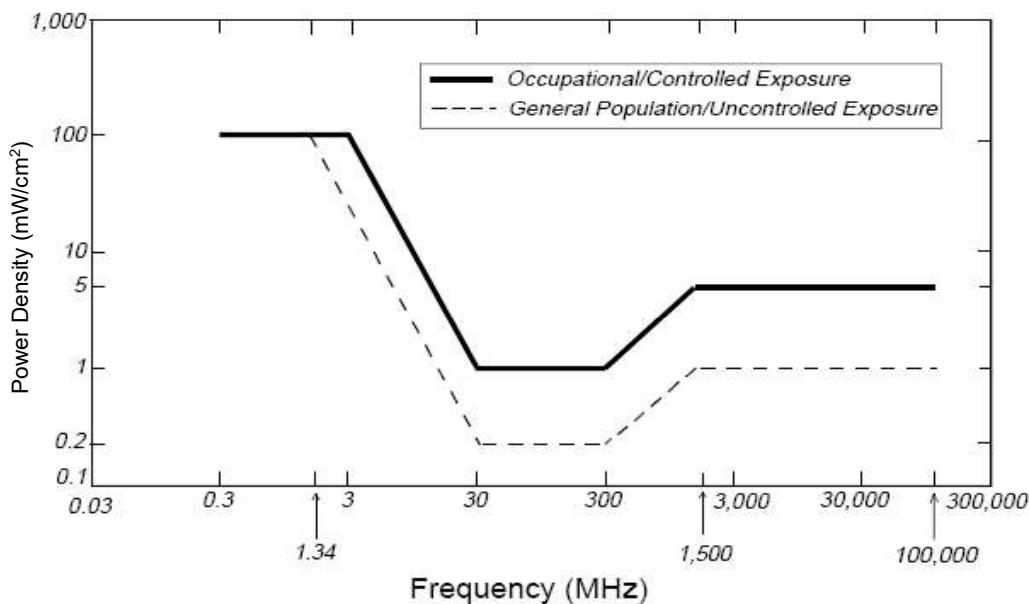
(B) Limits for General Public/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Microwave (Point-to-Point)	5,000 - 80,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Broadband Radio (BRS)	2,600 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Wireless Communication (WCS)	2,300 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Advanced Wireless (AWS)	2,100 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio (SMR)	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Long Term Evolution (LTE)	700 MHz	2.33 mW/cm ²	0.47 mW/cm ²
Most Restrictive Frequency Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by AT&T in this area operate within a frequency range of 700-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

2.0 AT&T RF EXPOSURE POLICY REQUIREMENTS

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Pursuant to this guidance, worst-case predictive modeling was performed for the site. This modeling is described below in Section 3.0. Lastly, based on the modeling and survey data, EBI has produced a Compliance Plan for this site that outlines the recommended signage and barriers. The recommended Compliance Plan for this site is described in Section 4.0.

3.0 WORST-CASE PREDICTIVE MODELING

In accordance with AT&T's RF Exposure policy, EBI performed theoretical modeling using RoofMaster™ software to estimate the worst-case power density at the site utility line level and ground-level and/or nearby rooftops resulting from operation of the antennas. RoofMaster™ is a widely-used predictive modeling program that has been developed to predict RF power density values for rooftop and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. Using the computational methods set forth in Federal Communications (FCC) Office of Engineering & Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (OET-65), RoofMaster™ calculates predicted power density in a scalable grid based on the contributions of all RF sources characterized in the study scenario. At each grid location, the cumulative power density is expressed as a percentage of the FCC limits. Manufacturer antenna pattern data is utilized in these calculations. RoofMaster™ models consist of the Far Field model as specified in OET-65 and an implementation of the OET-65 Cylindrical Model (Sula9). The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by AT&T and compared the resultant worst-case MPE levels to the FCC's occupational/controlled exposure limits outlined in OET Bulletin 65.

The assumptions used in the modeling are based upon information provided by AT&T and information gathered from other sources. There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, there are no modeled exposures on any accessible utility line level and ground walking/working surface related to ATT's existing antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

Modeling indicates that the worst-case emitted power density may exceed the FCC's general public limit within approximately 37 feet of the antenna face and the occupational limit within approximately 16 feet of the antenna face. Modeling also indicates that the worst-case emitted power density may exceed the FCC's general population limit within approximately 2 feet below the bottom of the AT&T antenna and the occupational limit within approximately 4 feet below the bottom of the AT&T antenna.

At the nearest walking/working surfaces to the AT&T antennas on the utility line level, the maximum power density generated by the AT&T antennas is approximately 22.19 percent of the FCC's general public limit (4.44 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 22.19 percent of the FCC's general public limit (4.44 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna. It should be noted that percentage of MPE is based on spatially-averaged power densities over a height of six feet, with the height of the utility line being centered within that spatial range. Based on worst-case predictive modeling, there are no areas at ground/street level related to the existing AT&T antennas that exceed the FCC's occupational or general public exposure limits at this site. At ground/street level, the maximum power density generated by the antennas is approximately 0.58 percent of the FCC's general public limit (0.116 percent of the FCC's occupational limit).

A graphical representation of the RoofMaster™ modeling results is presented in Appendix B.

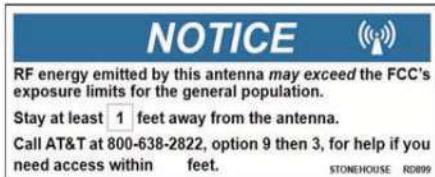
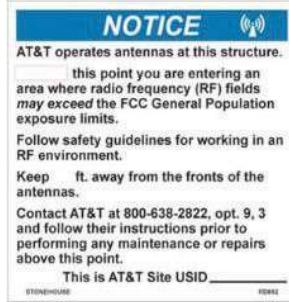
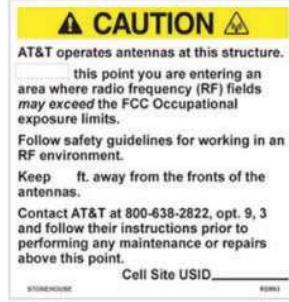
Microwave dish antennas are designed for point-to-point operations at the elevations of the installed equipment rather than ground-level coverage. Based on AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, microwave antennas are considered compliant if they are higher than 20 feet above any accessible walking/working surface. There are no microwaves installed at this site.

4.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. As presented in the AT&T guidance document, the signs must:

- Be posted at a conspicuous point;
- Be posted at the appropriate locations;
- Be readily visible; and
- Make the reader aware of the potential risks prior to entering the affected area.

The table below presents the signs that may be used for AT&T installations.

CRAN / HETNET Small Cell Decals / Signs		Alerting Signs	
	NOTICE DECAL		NOTICE 2
	NOTICE SIGN		NOTICE 2
	CAUTION DECAL		CAUTION 2 - ROOFTOP
	CAUTION SIGN		CAUTION 2B - TOWER
			CAUTION 2C - PARAPETS
			WARNING 1B
			WARNING 2A

Based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, and additional guidance provided by AT&T, the following signage is recommended on the site:

- Install 7 by 7-inch CAUTION sign on the equipment cabinet on the side of the utility pole.

No barriers are required for this site. The signage is graphically represented in the Signage Plan presented in Appendix B.

5.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the existing AT&T telecommunications equipment at the site located at 55 Henry Street in Greenwich, Connecticut.

EBI has conducted theoretical modeling to estimate the worst-case power density from AT&T antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements, as well as AT&T's corporate RF safety policies. As presented in the preceding sections, based on worst-case predictive modeling, there are no modeled exposures on any accessible utility line level and ground walking/working surface related to ATT's existing antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

To reduce the risk of exposure and/or injury, EBI recommends that access to the utility pole or areas associated with the active antenna installation be restricted and secured where possible. Signage is recommended at the site as presented in Section 4.0 and Appendix B. Posting of the signage brings the site into compliance with FCC rules and regulations and AT&T's corporate RF safety policies.

6.0 LIMITATIONS

This report was prepared for the use of AT&T Mobility, LLC to meet requirements outlined in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

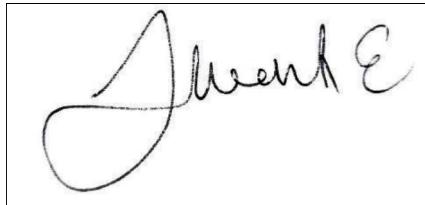
Appendix A

Personnel Certifications

Preparer Certification

I, Thanh Estevam, state that:

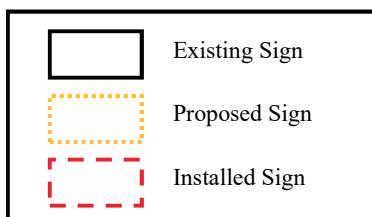
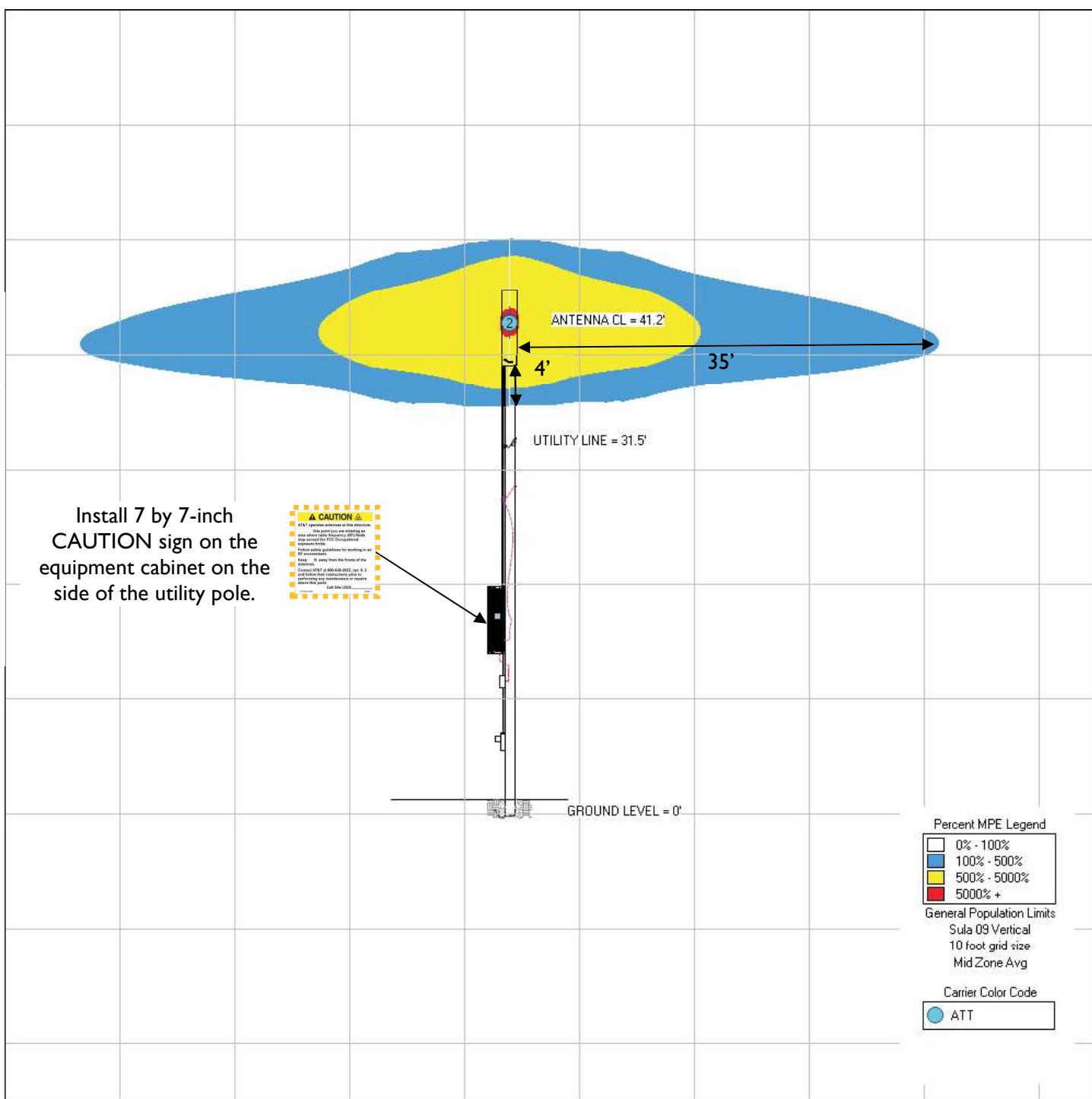
- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified “occupational” under the FCC regulations.
- I am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation.
- I have been trained in on the procedures outlined in AT&T’s RF Exposure: Responsibilities, Procedures & Guidelines document (dated October 28, 2014) and on RF-EME modeling using RoofMaster™ modeling software.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

A handwritten signature in black ink, appearing to read "Thanh E", enclosed in a rectangular box.

Appendix B

Compliance/Signage Plan

Elevation Simulation



SIGN IDENTIFICATION LEGEND		
	AT&T NOTICE 2 Sign	
	AT&T WARNING 1B and 2A Signs	
	AT&T NOTICE Small Cell Signs	
	AT&T CAUTION Small Cell Signs	

ATTACHMENT 7

CERTIFICATION OF SERVICE

I hereby certify that on the day of March 23, 2022 a copy of the following notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the list below:



Dated: March 23, 2022

Cuddy & Feder LLP
45 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Attorneys for:
New Cingular Wireless PCS, LLC (AT&T)

State

THE HONORABLE WILLIAM TONG ATTORNEY GENERAL OFFICE OF THE ATTORNEY GENERAL 165 CAPITOL AVENUE HARTFORD, CT 06106	DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT DAVID LEHMAN, COMMISSIONER 450 COLUMBUS BLVD HARTFORD, CT 06103
DEPARTMENT OF PUBLIC HEALTH DR. MANISHA JUTHANI, MD, ACTING COMMISSIONER 410 CAPITOL AVENUE HARTFORD, CT 06134	PUBLIC UTILITIES REGULATORY AUTHORITY MARISSA P. GILLETT, CHAIRMAN 10 FRANKLIN SQUARE NEW BRITAIN, CT 06051
COUNCIL ON ENVIRONMENTAL QUALITY PETER B. HEARN, EXECUTIVE DIRECTOR 79 ELM STREET, 6 th FLOOR HARTFORD, CT 06106	DEPARTMENT OF TRANSPORTATION JOSEPH GIULIETTI, COMMISSIONER 2800 BERLIN TURNPIKE, P.O. BOX 317546 NEWINGTON, CT 06131
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION KATIE DYKES, COMMISSIONER 79 ELM STREET HARTFORD, CT 06106	DEPARTMENT OF AGRICULTURE BRYAN P. HURLBURT, COMMISSIONER 450 COLUMBUS BOULEVARD SUITE 701 HARTFORD, CT 06103
OFFICE OF POLICY AND MANAGEMENT MELISSA MCCAW, SECRETARY 450 CAPITOL AVENUE HARTFORD, CT 06106	SECRETARY OF THE STATE DENISE W. MERRILL 165 CAPITOL AVENUE, SUITE 1000 P.O. BOX 150470 HARTFORD, CT 06106
WESTERN COUNCIL OF GOVERNMENTS 1 RIVERSIDE ROAD SANDY HOOK, CT 06482	DEPARTMENT OF EMERGENCY SERVICES & PUBLIC PROTECTION DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND

	SECURITY JAMES C. ROVELLA, COMMISSIONER 1111 COUNTRY CLUB ROAD MIDDLETOWN, CT 06457
STATE HISTORIC PRESERVATION OFFICE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT 450 COLUMBUS BLVD., 5 TH FLOOR HARTFORD, CT 06103	STATE REPRESENTATIVE- 150 TH DISTRICT STEPHEN MESKERS LEGISLATIVE OFFICE BUILDING 300 CAPITOL AVENUE ROOM 4006 HARTFORD, CT 06106
STATE SENATOR – 36 TH District RYAN FAZIO LEGISLATIVE OFFICE BUILDING 300 CAPITOL AVENUE ROOM 3400 HARTFORD, CT 06106	

Federal

FEDERAL COMMUNICATIONS COMMISSION 45 L STREET NE WASHINGTON, DC 20554	FEDERAL AVIATION ADMINISTRATION 800 INDEPENDENCE AVENUE, SW WASHINGTON, DC 20591
U.S. SENATOR CHRIS MURPHY COLT GATEWAY 120 HUYSHOPE AVENUE SUITE 401 HARTFORD, CT 06106	U.S. SENATOR RICHARD BLUMENTHAL 90 STATE HOUSE SQUARE, 10 TH FLOOR HARTFORD, CT 06103
U.S. CONGRESSMAN –4 TH DISTRICT JAMES HIMES 888 WASHINGTON BLVD, 10 TH FLOOR STAMFORD, CT 06901	

Town of Greenwich

FRED CAMILLO, FIRST SELECTMAN OFFICE OF THE FIRST SELECTMAN TOWN OF GREENWICH 101 FIELD POINT ROAD FIRST FLOOR GREENWICH, CT 06830	KATIE DELUCA, AICP DIRECTOR OF PLANNING & ZONING PLANNING & ZONING DEPARTMENT TOWN OF GREENWICH 101 FIELD POINT ROAD SECOND FLOOR GREENWICH, CT 06830
PATRICIA SESTO DIRECTOR OF INLAND WETLAND AND WATERCOURSES TOWN OF GREENWICH 101 FIELD POINT ROAD SECOND FLOOR	JACQUELINE A. BUDKINS, TOWN CLERK TOWN OF GREENWICH 101 FIELD POINT ROAD FIRST FLOOR GREENWICH, CT 06830

GREENWICH, CT 06830	WILLIAM RUTHERFORD CHAIR OF CONSERVATION COMMISSION TOWN OF GREENWICH 101 FIELD POINT ROAD SECOND FLOOR GREENWICH, CT 06830
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Village of Port Chester (New York)

LUIS A. MARINO, MAYOR VILLAGE OF PORT CHESTER 222 GRACE CHURCH STREET PORT CHESTER, NY 10573	CURT LAVALLA, AICP DIRECTOR OF PLANNING & ECONOMIC DEVELOPMENT VILLAGE OF PORT CHESTER 222 GRACE CHURCH STREET PORT CHESTER, NY 10573
JANUSZ R. RICHARDS, VILLAGE CLERK VILLAGE OF PORT CHESTER 222 GRACE CHURCH STREET PORT CHESTER, NY 10573	

NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition being filed with the Connecticut Siting Council (“Siting Council”) on or after March 25, 2022 by New Cingular Wireless PCS, LLC (“AT&T”). AT&T seeks a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” wireless telecommunications facility on a new pole.

The proposed telecommunications facility will be in the public right-of-way located adjacent to 55 Henry Street, Greenwich, Connecticut. AT&T will install an approximately 50'-tall Class 2 utility pole that will stand approximately 43'-tall above grade level (“AGL”). AT&T proposes to mount two small cell antennas at the top of the new utility pole at a centerline height of 41'-2" AGL with a total height of 44'-5" AGL to the top of the antennas. A new equipment cabinet is proposed on the side of the pole.

The Petition will provide additional details of the proposal and explain why AT&T submits that this proposed small cell facility presents no significant adverse environmental effects. The location, height, and other features of the proposal are subject to review and potential change under the provisions of Connecticut General Statutes Sections 16-50g *et. seq.*

Copies of the Petition will be on file with the following on or after March 25, 2022:

Connecticut Siting Council 10 Franklin Square New Britain, Connecticut 06051	Town of Greenwich Clerk 101 Field Point Road 1 st Floor Greenwich, CT 06830
--	---

Village of Port Chester Clerk
222 Grace Church Street
Port Chester, NY 10573

or the offices of the undersigned. A copy of the Petition will also be available on the Connecticut Siting Council website: <https://www.ct.gov/cSc/site/default.asp> under Pending Matters. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Daniel Patrick, Esq.
Lucia Chiocchio, Esq
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Petitioner

CERTIFICATION OF SERVICE

I hereby certify that on the day of March 23, 2022 a copy of this Petition and the following letter and notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the attached list of abutting property owners:



Dated: March 23, 2022

Cuddy & Feder LLP
45 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Attorneys for:
New Cingular Wireless PCS, LLC (AT&T)

STATE OF CONNECTICUT P.O. BOX 317546 NEWINGTON, CT 06131	CHESTNUT REALTY CO L.P. 50 CHESTNUT STREET GREENWICH, CT 06830
CENTRAL INVESTMENT COMPANY LIMITED 55 HENRY STREET GREENWICH, CT 06830	CENTRAL INVESTMENT COMPANY LIMITED 22 TOD LANE GREENWICH, CT 06831
PARIS LOUIS & SHARON W/S 74 HENRY STREET GREENWICH, CT 06831	SACRED HEART CHURCH 95 HENRY STREET GREENWICH, CT 06830
PAPADOPOULOS EFTHYMIA 17 SOUTH NEW MAIN STREET GREENWICH, CT 06830	

March 23, 2022

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

Re: New Cingular Wireless PCS, LLC (“AT&T”)
Installation of A Small Cell Wireless Telecommunication Facility
55 Henry Street, Greenwich, Connecticut

Dear Sir or Madam:

We are writing to you on behalf of our client New Cingular Wireless PCS, LLC (“AT&T”) with respect to the above referenced matter and our client’s intent to file a petition for a declaratory ruling with the State of Connecticut Siting Council for approval of installation of a small cell wireless telecommunication facility on a new pole (the “Facility”) to be installed in the public right-of-way near the above-captioned property.

State law requires that record owners of property abutting a parcel on which a facility is proposed be sent notice of an applicant’s intent to file a petition with the Siting Council.

Included with this letter please find a Notice of this submission and details of the proposal. The location, height and other features of the Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g *et seq.*

If you have any questions concerning this petition, please contact the Connecticut Siting Council or the undersigned after March 25, 2022 which is the date that the petition is expected to be on file.

Very truly yours,

Daniel Patrick
Enclosure

cc: Lucia Chiocchio, Esq., Cuddy & Feder LLP

NOTICE

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The Petition will provide additional details of the proposal and explain why AT&T submits that this proposed small cell facility presents no significant adverse environmental effects. The location, height, and other features of the proposal are subject to review and potential change under the provisions of Connecticut General Statutes Sections 16-50g *et. seq.*

Copies of the Petition will be on file with the following on or after March 25, 2022:

Connecticut Siting Council 10 Franklin Square New Britain, Connecticut 06051	Town of Greenwich Clerk 101 Field Point Road 1 st Floor Greenwich, CT 06830
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Daniel Patrick, Esq.
Lucia Chiocchio, Esq
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Petitioner



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3/4/2022 1:28:21 PM
Scale: 1"=200'
Scale is approximate



ABUTTERS LIST

Parcel ID	Site Address	Owner Name	Mailing Address	City	State	Zip
	State of Connecticut	State of Connecticut	P.O. Box 317546	Newington	CT	06131
04-1705/s	50 Chestnut Street, Greenwich	Chestnut Realty Co. L.P.	50 Chestnut Street	Greenwich	CT	06830
04-2019/s	55 Henry Street, Greenwich	Central Investment Company Limited	22 Tod Lane	Greenwich	CT	06831
04-1708/s	74 Henry Street, Greenwich	Paris Louis & Sharon W/S	74 Henry Street	Greenwich	CT	06831
04-4012/s	95 Henry Street, Greenwich	Sacred Heart Church	95 Henry Street	Greenwich	CT	06830
04-1904/s	17 South New Street, Greenwich	Papadopoulos Efthymia	17 South New Street	Greenwich	CT	06830