



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

October 30, 2018

Robert C. Wilson
Site Acquisition Manager
Empire Telecom
200 N. Warner Road, Suite 215
King of Prussia, PA 19406

RE: **EM-AT&T-094-180924** – AT&T notice of intent to modify an existing telecommunications facility located at 123 Costello Road, Newington, Connecticut.

Dear Mr. Wilson

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 12, 2018 submitted in response to the Council's October 30, 2018 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/CMW/IN

c: Nora Oliver, Empire Telecom

Robidoux, Evan

From: Nora Oliver <noliver@empiretelecomm.com>
Sent: Monday, November 12, 2018 9:21 AM
To: Nwankwo, Ifeanyi
Cc: CSC-DL Siting Council
Subject: RE: AT&T 123 Costello Road, Newington Exempt Mod/ CT1108
Attachments: 123 Costello Rd, Newington, CT- CT1108-CSC.PDF

Hello,

Please find attached the proof of Notice Delivery to the landowner for 123 Costello Rd, Newington, CT.

Please let me know if you have any questions.

Thank you
Nora

From: Nwankwo, Ifeanyi [mailto:Ifeanyi.Nwankwo@ct.gov]
Sent: Thursday, November 8, 2018 11:48 AM
To: Nora Oliver
Cc: CSC-DL Siting Council
Subject: RE: AT&T 123 Costello Road, Newington Exempt Mod

Good Morning Nora,

A second incomplete request was sent out by the Council regarding the above subject request for exempt modification on October 30, 2018. (see attached)

However the letter was addressed to Robert Wilson as indicated in the original application. You will be copied in future correspondence regarding this exempt modification request.

Thank you.

Best Regards

Ifeanyichukwu Nwankwo
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
P: 860.827.2941 | F: 860.827.2950 | E: Ifeanyi.Nwankwo@ct.gov



www.ct.gov/csc

*Conserving, improving and protecting our natural resources and environment;
Ensuring a clean, affordable, reliable, and sustainable energy supply.*

From: Nora Oliver [<mailto:noliver@empiretelecomm.com>]
Sent: Monday, October 29, 2018 6:01 PM
To: Mathews, Lisa A
Cc: CSC-DL Siting Council
Subject: AT&T 123 Costello Road, Newington Exempt Mod

Good Afternoon Lisa,

Please find attached the revised RF Emissions Report and Green Card Receipts along with the Construction Plans as requested.

Please let me know if you have any questions.

Thank you

Nora Oliver
Empire Telecom USA
16 Esquire Road
Billerica, MA 01862
Tel: 978-808-2111
Email: Noliver@EmpireTelecomm.com

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From: Robert Wilson
Sent: Monday, September 24, 2018 5:10 PM
To: Mathews, Lisa A <Lisa.A.Mathews@ct.gov>
Subject: RE: AT&T 123 Costello Road, Newington Exempt Mod

Hello, Lisa,

Here is PDF for Costello Rd. Do the additional hard copies have to be mailed certified or can they be overnighted via UPS?

Best,

Robert Wilson
Site Acquisition Manager
Velocitel
200 North Warner Road, Suite 215
King of Prussia, PA 19406
Office: (610) 992-4101 x 140
Mobile: (484) 919-0391

Email: rwilson@velocitel.com

Website: www.velocitel.com

From: Mathews, Lisa A [<mailto:Lisa.A.Mathews@ct.gov>]
Sent: Monday, September 24, 2018 12:31 PM
To: Robert Wilson <rwilson@velocitel.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: AT&T 123 Costello Road, Newington Exempt Mod

Good morning Robert.

We just received the hard copies for your AT&T Newington Exempt Mod. If you could please also email us the PDF version of the filing too. Please note, we still need the additional copies for both your Plainville and Windsor Exempt Mods in order to begin processing those two items. Thank you.

Lisa A. Mathews
Office Assistant

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Delivery Notification

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number: 1Z 870 26W 24 9829 073 8
Reference Number(s): CT1108
Service: UPS Next Day Air
Special Instructions: SIGNATURE REQUIRED
Weight: 1.00 Lb
Shipped/Billed On: 11/08/2018
Delivered On: 11/09/2018 10:17 A.M.
Delivered To: 123 COSTELLO RD
 NEWINGTON, CT, US 06111
Received By: RIVERA



Location: Office

Thank you for giving us this opportunity to serve you.

Sincerely,
UPS

Tracking results provided by UPS: 11/12/2018 9:17 A.M. ET



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October 30, 2018

Robert C. Wilson
Site Acquisition Manager
Empire Telecom
200 N. Warner Road, Suite 215
King of Prussia, PA 19406

RE: **EM-AT&T-094-180924** – AT&T notice of intent to modify an existing telecommunications facility located at 123 Costello Road, Newington, Connecticut.

Dear Mr. Wilson:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on September 24, 2018. On September 26, 2018, the Council issued a letter (enclosed) stating that the above referenced request for exempt modification was incomplete because there was no proof of notice to the underlying property owner provided in the request and there were inconsistencies with the proposed antenna model and the proposed platform mount. The Council requested that Empire Telecom provide proof of proper notice of this exempt modification request to the chief elected official of the host municipality and the underlying property owner and provide clarification on the proposed antenna model and platform.

On October 29, 2018, the Council received an electronic mail with mailing receipts and the revised Construction Drawings and RF Emissions Analysis Report. The property card provided with the initial request shows Costello Industries Inc. as the underlying property owner, however the mailing receipts provided do not indicate that notice of the request was sent to the underlying property owner.

Therefore, the exempt modification request remains incomplete at this time. The Council recommends that Empire Telecom provide proof of proper notice of this exempt modification request to the underlying property owner on or before November 30, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to November 30, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/FOC/IN

Enclosure: Letter of Incomplete dated September 26, 2018.

c: The Honorable Roy Zartarian, Mayor, Town of Newington
Tanya Lane, Town Manager, Town of Newington
Craig Minor, Town Planner, Town of Newington

S:\EMS_TS\1_BYTOWN\Newington\CostelloRd\AT&T_CINC\emr&t-094-180924_2ndincomplettr_costello.docx



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer



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September 26, 2018

Robert C. Wilson
Site Acquisition Manager
Empire Telecom
200 N. Warner Road, Suite 215
King of Prussia, PA 19406

RE: **EM-AT&T-094-180924** – AT&T notice of intent to modify an existing telecommunications facility located at 123 Costello Road, Newington, Connecticut.

Dear Mr. Wilson:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on September 24, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the filing due to lack of notice. The Council issued a memorandum on June 22, 2017 to entities requesting exempt modifications requiring a copy of the entire notice and attachments be physically mailed to the chief elected official of the host municipality and the underlying property owner and proof of such mailing shall be submitted to the Council with the request for exempt modification. See attached.

The above referenced request for exempt modification lacks proof that the entire request for exempt modification was physically mailed to the underlying property owner.

Staff also observed the following inconsistencies:

1. On page 3 of the Structural Analysis Report, Table 1 (Proposed Loading) indicates a platform change (Sitepro1 F3P-12W) however the construction drawing does not indicate a change in platform.
2. The proposed antenna model (HPA65RBUIH6) indicated in Table 1 of the Structural Analysis Report is inconsistent with that indicated in the RF System Schedule on Construction Drawing No. 3 and Table 3 of the Results of the RF Emissions Report.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Empire Telecom provide proof of proper notice of this exempt modification request to the underlying property owner and provide clarification on the proposed antenna model and platform on or before October 29, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to October 29, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).



Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

A handwritten signature in black ink, appearing to read "Melanie Bachman", with a horizontal line extending to the right.

Melanie Bachman
Executive Director

MAB/FOC/IN

Enclosures

c: The Honorable Roy Zartarian, Mayor, Town of Newington
Tanya Lane, Town Manager, Town of Newington
Craig Minor, Town Planner, Town of Newington



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VIA ELECTRONIC MAIL

MEMORANDUM

To: Telecommunications Carriers and their Representatives

From: Melanie Bachman, Executive Director *MAB*

Re: Exempt Modification/Tower Share Filing Notification

Date: June 22, 2017

Pursuant to Regulations of Connecticut State Agencies § 16-50j-73 and §16-50j-88, the April 2013 *Filing Guide for Modification of Existing Telecommunications Facilities*, and the August 2013 *Tower Share Filing Guide*, notice in writing shall be provided to “the Council, the property owner of record... and the chief elected official” of the intent to modify or share an existing telecommunications facility” (see Attachments).

Effective immediately, **a copy of the notice and the attachments**, including, but not limited to, engineering drawings, structural analysis (the structural analysis report without tower data and calculation appendices is sufficient) and power density calculation of the request for an exempt modification or tower share shall be physically mailed to the chief elected official of the host municipality and underlying property owner where the existing telecommunications facility is located and proof of mailing shall be submitted to the Council with the request. Proof of mailing requires an acknowledgment from the carrier (United States Postal Service or private carrier such as UPS/FedEx) that a parcel was delivered to the recipient. **E-mail service is unacceptable.**

Thank you in advance for your cooperation.

Attachments: Altrio Investment Group, LLC correspondence, dated June 16, 2017
City of Danbury email correspondence, dated June 8, 2017

MAB/FOC/laf



Recipient List: Christopher B. Fisher, Esq., AT&T
Ray Perry, Airosmith Development, Inc.
Arthur Perkowski, Airosmith Development, Inc.
Alex Murshteyn, Centerline Communications
Michael Gentile, Centerline Communications
David Ford, Centerline Communications
Adam Wolfey, Centerline Communications
Steve Levine, Centek Engineering, Inc.
Jeff Barbadora, Crown Castle
Amanda Cornwall, Crown Castle
Kimberly Myl, Crown Castle
Donna Neal, Crown Castle
Sarah Snell, Empire Telecom
Nicole Caplan, Empire Telecom
Jack Andrews, Empire Telecom
Jennifer Iliades, Empire Telecom
Melanie Howlett, HPC Wireless
Alex Giannaras, HPC Wireless
Denise Sabo, Northeast Site Solutions
Deborah Chase, Northeast Site Solutions
Victoria Masse, Northeast Site Solutions

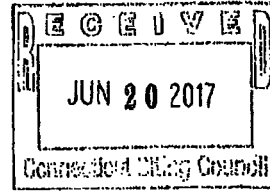
Mark Roberts, QC Development
Tim Burks, SAI Communications
Rick Woods, SBA
Kri Pelletier, SBA
Peter Nute, SBA
Adam Brillard, Smartlink, LLC
David Barbagallo, Smartlink LLC
Romina Kirchmaier, Smartlink LLC
Thomas J. Regan, Esq., Sprint
Sam Simons, T-Mobile
Greg Shappy, Transcend Wireless
Kyle Richers, Transcend Wireless
Jennifer Ardis, Transcend Wireless
James Burgess, TRM, Inc.
Jacqueline Clifford, TRM, Inc.
Matt Burke, TRM, Inc.
Jon Ritter, TRM, Inc.
Kenneth C. Baldwin, Esq., Verizon Wireless
Eric Dahl, Vertical Development LLC
Jamie Ford, Vertical Development LLC
Matthew Bandle, Vertical Development LLC



21 Acorn Road Phone: 203-481-3496
Branford, CT Fax: 203-483-8604
06405 asecondino@asecondinocndiaon.com

ALTRIO INVESTMENT GROUP, LLC

em-t-mobile-014-170523



June 16, 2017

Ms. Amanda Cornwall
Crown Castle
12 Gill Street, Suite 5800
Woburn, MA 01801

ORIGINAL

**RE: T-Mobile Tower Modifications, 21 Acorn Road, Branford CT
Reference Site # CTNH509A**

Dear Ms. Cornwall,

Please provide Altrio Investment Group (*Landlord and Property Owner*) with all pertinent documentation and information regarding modifications to the subject communication tower or ground lease area including structural analysis report, modification drawings, structural drawings, and drawings indicating T-Mobile equipment plans and elevations.

Please also notify all involved parties that any holes or penetrations in the building envelope are to be performed by the Landlord, Altrio Investment Group LLC and will be billed to the responsible parties.

Best regards,

Alfred J. Seccondino
Managing Member

CC: Melanie A Bachman, CT Siting Council, Executive Director
File

Cunliffe, Fred

From: Bachman, Melanie
Sent: Thursday, June 08, 2017 3:35 PM
To: 'Deborah Chase'
Cc: 'Sheldon Freinle'; 'Denise Sabo'; 'Victoria Masse'
Subject: RE: 41 Padanaram Road, Danbury CT 06811 (CT11896A L1900) T-Mobile Antenna EM Application

Good afternoon.

I received a call from Robin Edwards, Corporation Counsel for the City of Danbury. She was concerned about how notice of this request was provided to the City and indicated that it appeared the request was submitted through their "311 service?" From their website, this appears to be a City Service Request Form. I snipped the link to it below for your convenience. The cover letter indicates that a copy was sent to the Mayor and the Director of Planning. Could someone please confirm that a copy of the letter was actually sent rather than submitted to the "311 service" when you have a chance?

Thanks.

Resources



Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
860-827-2951



CONFIDENTIAL INFORMATION:

From: Deborah Chase [mailto:deborah@northeastsitesolutions.com]
Sent: Friday, May 26, 2017 3:12 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>; Bachman, Melanie <Melanie.Bachman@ct.gov>; Mathews, Lisa A <Lisa.A.Mathews@ct.gov>
Cc: Sheldon Freinle <sheldon@northeastsitesolutions.com>; Denise Sabo <denise@northeastsitesolutions.com>; Victoria Masse <victoria@northeastsitesolutions.com>
Subject: 41 Padanaram Road, Danbury CT 06811 (CT11896A L1900) T-Mobile Antenna EM Application

Siting Council,

Enclosed please find the Notice of Exempt Modification package from Northeast Site Solutions on behalf of T-Mobile in connection with the above-referenced site.

We are mailing the original and two (2) copies to your office.

Please let me know if you have any questions or problems with the attachment.


Sincerely,

Deborah Chase

Senior Project Coordinator & Analyst

Mobile: 860-490-8839



 Save a tree. Reduce. Reuse. Recycle.

Robidoux, Evan

From: Mathews, Lisa A
Sent: Thursday, November 08, 2018 10:43 AM
To: Cunliffe, Fred; Walsh, Christina; Nwankwo, Ifeanyi; Robidoux, Evan
Subject: FW: AT&T 123 Costello Road, Newington Exempt Mod
Attachments: Construction Drawings. 123 Costello Road, Newington, CT, CT1108.pdf; Green Cards Receipts AT&T 123 Costello Road, Newington.pdf; (950006-138) AT&T CT1108 - Newington South Emissions Analysis Report 102....pdf

Nora called to ask about this EM. I let her know that we received the email and an acknowledgement should be on the way.

Lisa M.

From: Nora Oliver [mailto:noliver@empiretelecomm.com]
Sent: Monday, October 29, 2018 6:01 PM
To: Mathews, Lisa A
Cc: CSC-DL Siting Council
Subject: AT&T 123 Costello Road, Newington Exempt Mod

Good Afternoon Lisa,

Please find attached the revised RF Emissions Report and Green Card Receipts along with the Construction Plans as requested.

Please let me know if you have any questions.

Thank you

Nora Oliver
Empire Telecom USA
16 Esquire Road
Billerica, MA 01862
Tel: 978-808-2111
Email: Noliver@EmpireTelecomm.com

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From: Robert Wilson
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Robert Wilson
Site Acquisition Manager
Velocitel
200 North Warner Road, Suite 215
King of Prussia, PA 19406
Office: (610) 992-4101 x 140
Mobile: (484) 919-0391
Email: rwilson@velocitel.com
Website: www.velocitel.com

From: Mathews, Lisa A [<mailto:Lisa.A.Mathews@ct.gov>]
Sent: Monday, September 24, 2018 12:31 PM
To: Robert Wilson <rwilson@velocitel.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: AT&T 123 Costello Road, Newington Exempt Mod

Good morning Robert.

We just received the hard copies for your AT&T Newington Exempt Mod. If you could please also email us the PDF version of the filing too. Please note, we still need the additional copies for both your Plainville and Windsor Exempt Mods in order to begin processing those two items. Thank you.

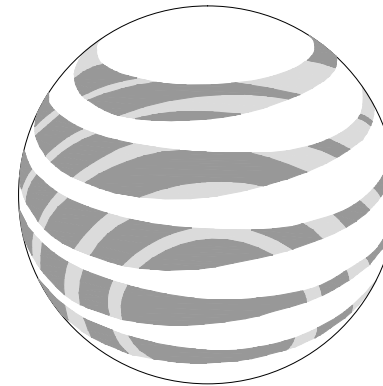
Lisa A. Mathews
Office Assistant

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PROJECT INFORMATION

SCOPE OF WORK
 UNMANNED COMMUNICATIONS FACILITY MODIFICATIONS INCLUDING:
 -(P) LTE700B14 CCI HPA65RBUUH6 IN POSITION #3 (1/SECT., 3 TOT.)
 -(P) LTE700D RRUS-4478 RADIOS BEHIND NEW PANEL POSITION #3 (1/SECT., 3 TOT.) ENSURE MIN 8" SEPARATION TO BACK OF PANEL
 -(P) LTE700de RRUS-E2 RADIOS INSIDE SHELTER CONNECTED TO PANEL POSITION #2 (1/SECT., 3 TOT.)
 -(P) (2) DC-6-48-60-18-8F SURGE ARRESTORS TO BE RE-USED (2 TOT.)
 -(P) NEW 12' LOW PROFILE PLATFORM SITEPRO #F3P-12-H10
 -(P) 2-FIBER TRUNKS, 4-DC TRUNKS TO BE RE-USED
 -(P) IN AT&T EQUIPMENT SHELTER:
 -UPGRADE DUS TO RB55216
 -ADD IDL2 CABLE
 -ADD 2nd XMU
 -DECOMMISSION & REMOVE 1 GSM CABINET
 -DECOMMISSION & REMOVE UMS850 RADIOS (3 TOT.)

SITE NUMBER: CT1108
SITE NAME: NEWINGTON SOUTH
SITE ADDRESS: 123 COSTELO ROAD
 NEWINGTON, CT 06111
TOWER OWNER: CROWN ATLANTIC COMPANY
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
APPLICANT: AT&T MOBILITY
 550 COCHITUATE RD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701
NOC CONTACT: TEL 866-915-5600
COORDINATES LAT. N41°39'18.7" LONG. W72°43'17.1"
GROUND LEVEL: ±135'
DEED REFERENCE: N/A
SITE PARCEL NO.: N/A
CURRENT ZONING: N/A
HORIZONTAL DATUM: (NAD) 1983

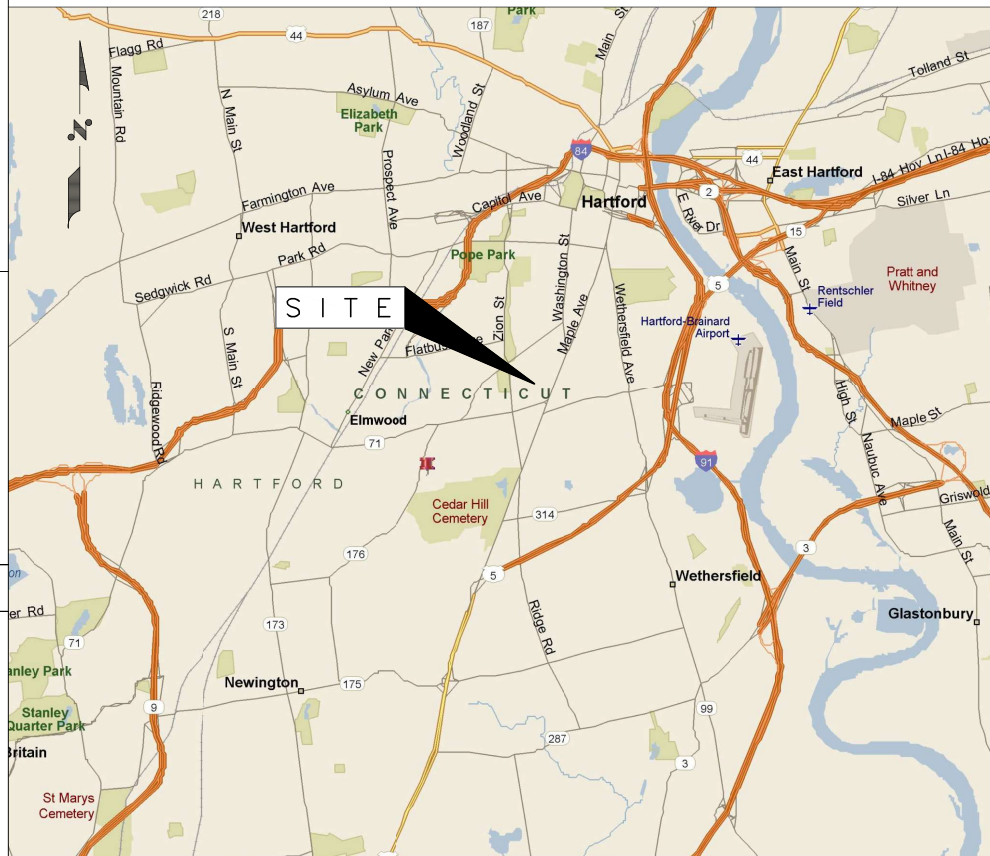


at&t
 Mobility

SITE NUMBER: CT1108
SITE NAME: NEWINGTON SOUTH
PROJECT: LTE 5C 700DE 6C 700D FirstNet
CROWN BU: 881364

LOCATION MAP

DIRECTIONS: FROM ROCKY HILL, TAKE EXIT 23 OFF I-91, GO WEST TO ROUTE 3. TAKE ROUTE 3 NORTH TO ROUTE 160 WEST. FOLLOW ROUTE 160 WEST TO THE BERLIN TURNPIKE (RT-5/15). TURN RIGHT ONTO TURNPIKE. LOOK FOR COSTELLO ROAD ON RIGHT (DUNKIN DONUTS ON THE CORNER). TOWER SITE ENTRANCE IS 2/10 MILE ON RIGHT BEHIND COSTELLO EXCAVATION COMPANY. ENTER THROUGH EXCAVATION COMPANY DRIVEWAY.
SITE ACCESS: LOCKED GATE



APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARDS AND SPECIFICATIONS. SUBCONTRACTOR 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:
 CONNECTICUT STATE BUILDING CODE

ELECTRICAL CODE:
 NATIONAL ELECTRICAL CODE LATEST EDITION
 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, NINTH EDITION
 AMERICAN NATIONAL STANDARDS INSTITUTE/TELECOMMUNICATIONS INDUSTRY ASSOCIATION (ANSI/TIA) 222-F OR G AS APPLICABLE, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
 TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

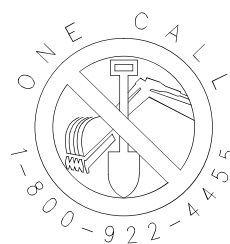
ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

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.

DRAWING INDEX

REV

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05	GROUNDING DETAILS	2



AT LEAST 2 WORKING DAYS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CONNECTICUT ONE CALL SYSTEM AT 1-800-922-4455

CONTACT & UTILITY INFORMATION

CONTACT	CONTACT	COMPANY	PHONE NO.
ENGINEERING:	MIGUEL NOBRE	VRG	(508) 981-9590
SITE ACQUISITION:	DAVID COOPER	EMPIRE	(484) 683-5349
CONSTRUCTION:	BILL DANIELS	EMPIRE	(484) 683-5349
UTILITIES			
POWER:	WORK REQUEST GROUP	NATIONAL GRID	(800) 375-7405
TELCO:		VERIZON	(800) 941-9900

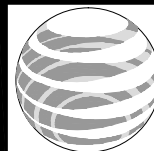


489 Washington Street
 Auburn, MA 01501
 Tel. (508) 981-9590
 Fax (508) 519-8939
 mnobre@verticalresourcesgrp.com



EMPIRE TELECOM USA, LLC
 16 ESQUIRE ROAD
 BILLERICA, MA 01821

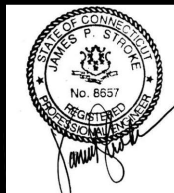
SITE NUMBER: CT1108
SITE NAME: NEWINGTON SOUTH
PROJECT: LTE 5C 6C
CROWN SITE ID: 881364
 123 COSTELO ROAD
 NEWINGTON, CT 06111
 HARTFORD COUNTY



at&t
 Mobility

550 COCHITUATE RD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701

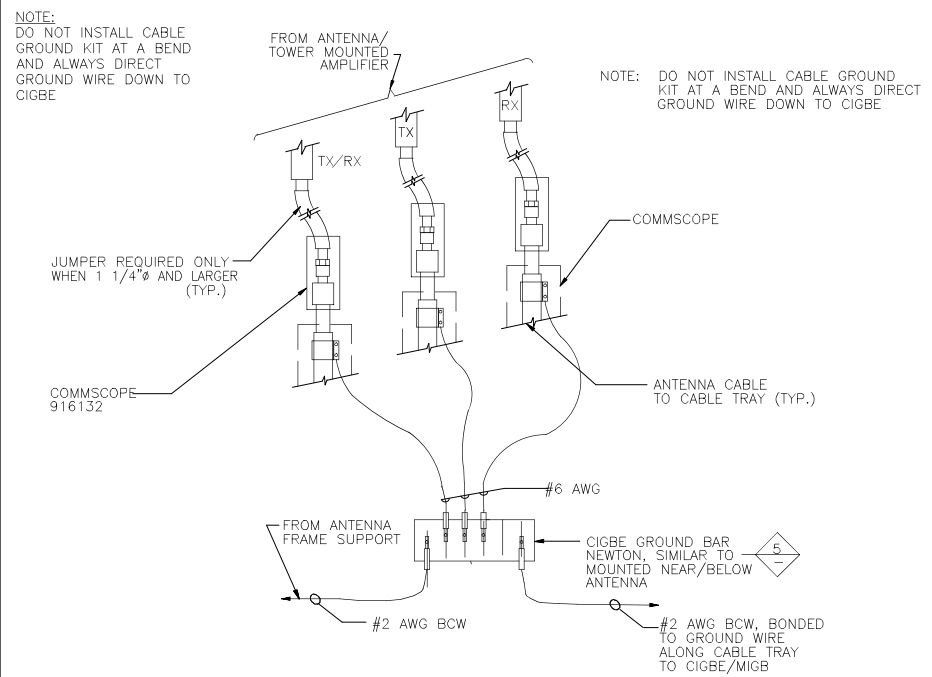
NO.	DATE	REVISION	BY	CHK	APP'D
09/12/18		GENERAL REVISIONS	E.L.P.	G.A.M.	
06/27/18		GENERAL REVISIONS	E.L.P.	G.A.M.	
06/20/18		FOR CONSTRUCTION	E.L.P.	G.A.M.	
SCALE	DESIGNED BY: M.N.	DRAWN BY: G.A.M.			



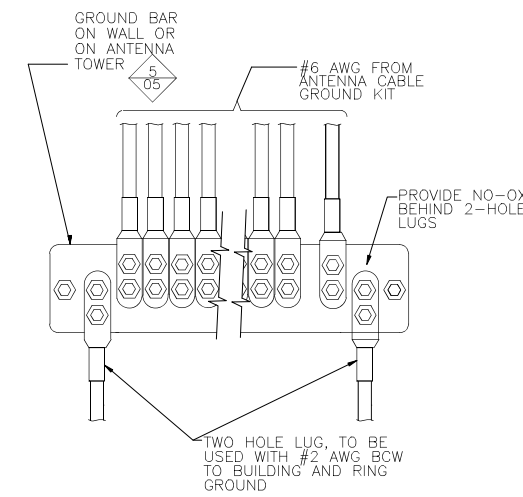
AT&T MOBILITY

TITLE SHEET

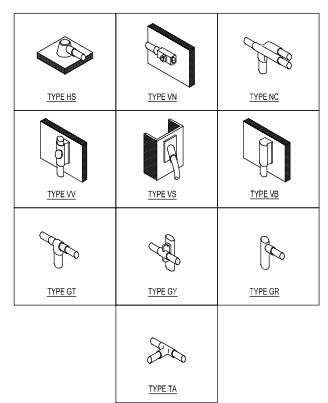
JOB NUMBER	DRAWING NUMBER	REV
CT1108-LTE5C6C	01	2



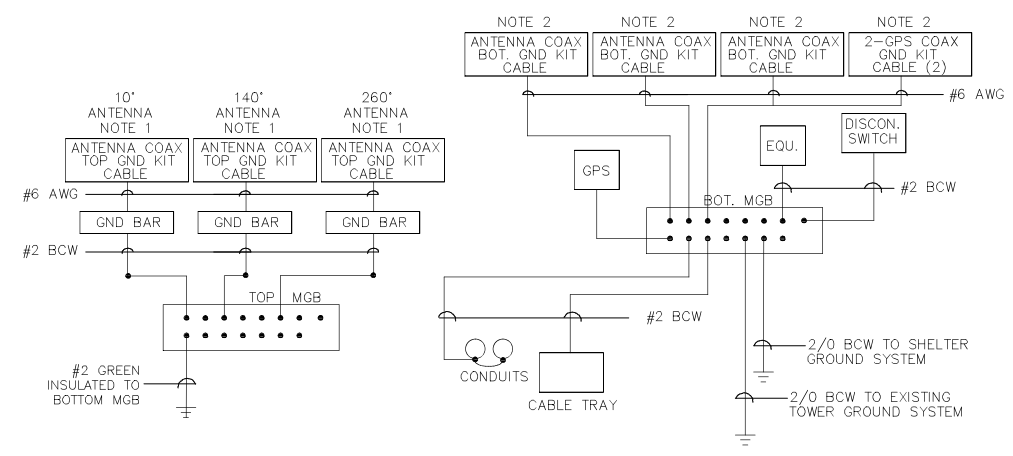
CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE)
SCALE: N.T.S.



INSTALLATION OF GROUND WIRE TO GROUND BAR
SCALE: N.T.S.

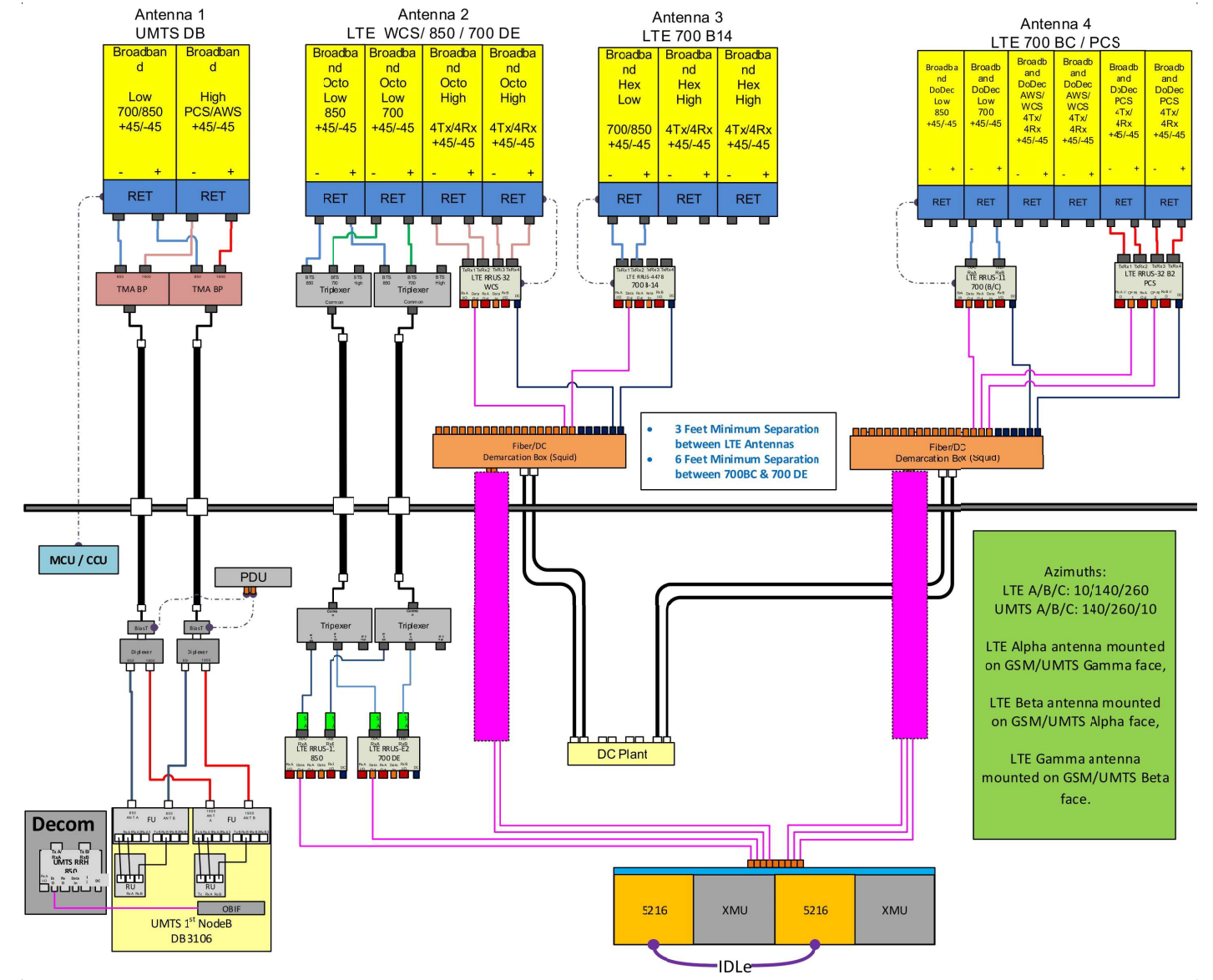


GROUNDING CONNECTION DETAIL
SCALE: N.T.S.



NOTE:
1. BOND ANTENNA GROUNDING KIT CABLE TO TOP CIGBE
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE

SCHEMATIC GROUNDING DIAGRAM
SCALE: N.T.S.

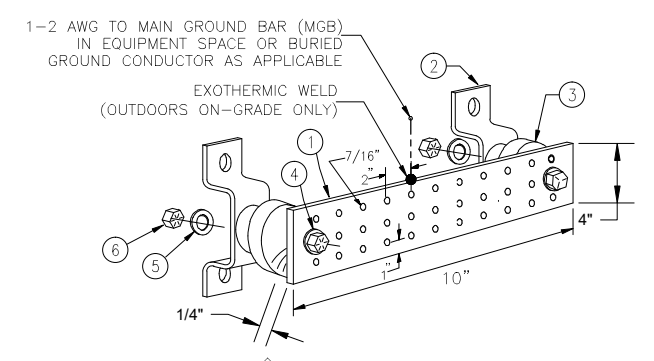


PLUMBING DIAGRAM ALPHA/BETA/GAMMA SECTOR
SCALE: N.T.S.

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS
2. INSTALL ALL EQUIPMENT PER MANUFACTURERS' RECOMMENDATIONS

NEWTON INSTRUMENT COMPANY, INC.
BUTNER, N.C. OR APPROVED EQUAL

ITEM	REQ.	PART NO.	DESCRIPTION
①	1	1/4"x4"x12"	PRE DRILLED GND. BAR
②	2	A-6056	WALL MTG. BRKT.
③	2	3061-4	INSULATORS
④	2	3012-13	5/8"-11x4" H.H.C.S.
⑤	4	3015-8	5/8 LOCKWASHER
⑥	2	3014-8	5/8"-11 HEX NUT



GROUND BAR DETAIL
SCALE: N.T.S.

VRG
VERTICAL RESOURCES GRP.

489 Washington Street
Auburn, MA 01501
Tel. (508) 981-9590
Fax (508) 519-8939
mnobre@verticalresourcesgrp.com

EMPIRE telecom

EMPIRE TELECOM USA, LLC
16 ESQUIRE ROAD
BILLERICA, MA 01821

SITE NUMBER: CT1108
SITE NAME: NEWINGTON S
PROJECT: LTE 5C 6C
CROWN SITE ID: 881364

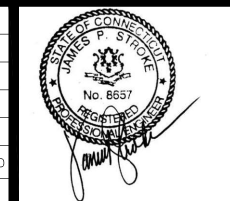
123 COSTELO ROAD
NEWINGTON, CT 06111
HARTFORD COUNTY

at&t
Mobility

550 COCHITUATE RD
SUITES 13 & 14
FRAMINGHAM, MA 01701

NO.	DATE	REVISION	BY	CHK	APP'D
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06/20/18		FOR CONSTRUCTION	E.L.P.	G.A.M.	

SCALE: DESIGNED BY: M.N. DRAWN BY: G.A.M.



AT&T MOBILITY

GROUNDING DETAILS

JOB NUMBER	DRAWING NUMBER	REV
CT1108-LTE5C6C	05	2

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Crown Castle
 Paul Pedicone, Project Manager
 3 Corporate Drive, Suite 101
 Clifton Park, NY 12065



2. Article Number (Transfer from service label)
 7015 0640 0007 2962 5587

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 B. Received by (Printed Name) Addressee
 C. Date of Delivery *8/7/15* Date of Delivery
- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
- Priority Mail Express®
 - Adult Signature
 - Registered Mail™
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Signature Confirmation
 - Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

The Honorable Roy Zartarian, Mayor
 Mayor's Office
 Town of Newington
 131 Cedar Street
 Newington, CT 06111



2. Article Number (Transfer from service label)
 7015 0640 0007 2962 5617

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 B. Received by (Printed Name) Addressee
 C. Date of Delivery *8/7/15* Date of Delivery
- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
- Priority Mail Express®
 - Adult Signature
 - Registered Mail™
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Signature Confirmation
 - Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Craig Minor
 Town Planner
 Town of Newington
 131 Cedar Street
 Newington, CT 06111



2. Article Number (Transfer from service label)
 7015 0640 0007 2962 5624

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 B. Received by (Printed Name) Addressee
 C. Date of Delivery *8/7/15* Date of Delivery
- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

CT 1108

3. Service Type
- Priority Mail Express®
 - Adult Signature
 - Registered Mail™
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Signature Confirmation
 - Restricted Delivery

Domestic Return Receipt



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT1108

FA#: 10042331

Newington South
123 Costello Road
Newington, CT 06111

October 29, 2018

Centerline Communications Project Number: 950006-138

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	24.88 %



October 29, 2018

AT&T Mobility – New England
Attn: John Benedetto, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 06040

Emissions Analysis for Site: **CT1108 – Newington South**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility located at **123 Costello Road, Newington, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

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

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 and 850 MHz Bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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 (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.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed AT&T Wireless antenna facility located at **123 Costello Road, Newington, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

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

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	2	30
UMTS	1900 MHz (PCS)	2	30
LTE	850 MHz	2	40
LTE	700 MHz	4	40
LTE	2300 MHz (WCS)	4	30
LTE	700 MHz (Band 14)	2	40
LTE	1900 MHz (PCS)	4	40

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Powerwave 7770	105
A	2	CCI OPA-65R-LCUU-H6	105
A	3	CCI HPA-65R-BUU-H6	105
A	4	Quintel QS66512-2	105
B	1	Powerwave 7770	105
B	2	CCI OPA-65R-LCUU-H6	105
B	3	CCI HPA-65R-BUU-H6	105
B	4	Quintel QS66512-2	105
C	1	Powerwave 7770	105
C	2	CCI OPA-65R-LCUU-H6	105
C	3	CCI HPA-65R-BUU-H6	105
C	4	Quintel QS66512-2	105

Table 2: Antenna Data

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



RESULTS

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

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.02
Antenna A2	CCI OPA-65R-LCUU-H6	850 MHz / 700 MHz / 2300 MHz (WCS)	12.45 / 11.65 / 15.45	8	280	6,785.10	3.37
Antenna A3	CCI HPA-65R-BUU-H6	700 MHz	11.95	2	80	1,253.40	0.98
Antenna A4	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	6	240	4,855.52	2.19
Sector A Composite MPE%							7.56
Antenna B1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.02
Antenna B2	CCI OPA-65R-LCUU-H6	850 MHz / 700 MHz / 2300 MHz (WCS)	12.45 / 11.65 / 15.45	8	280	6,785.10	3.37
Antenna B3	CCI HPA-65R-BUU-H6	700 MHz	11.95	2	80	1,253.40	0.98
Antenna B4	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	6	240	4,855.52	2.19
Sector B Composite MPE%							7.56
Antenna C1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.02
Antenna C2	CCI OPA-65R-LCUU-H6	850 MHz / 700 MHz / 2300 MHz (WCS)	12.45 / 11.65 / 15.45	8	280	6,785.10	3.37
Antenna C3	CCI HPA-65R-BUU-H6	700 MHz	11.95	2	80	1,253.40	0.98
Antenna C4	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	6	240	4,855.52	2.19
Sector C Composite MPE%							7.56

Table 3: AT&T Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

Site Composite MPE%	
Carrier	MPE%
AT&T – Max Per Sector Value	7.56 %
Verizon Wireless	6.61 %
MetroPCS	1.85 %
Clearwire	0.12 %
Sprint	0.14 %
Nextel	0.34 %
T-Mobile	8.26 %
Site Total MPE %:	24.88 %

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	7.56 %
AT&T Sector B Total:	7.56 %
AT&T Sector C Total:	7.56 %
Site Total:	24.88 %

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

AT&T _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS – Antenna 1	2	414.12	105	3.04	850 MHz	567	0.54%
AT&T 1900 MHz (PCS) UMTS – Antenna 1	2	656.33	105	4.81	1900 MHz (PCS)	1000	0.48%
AT&T 850 MHz LTE – Antenna 2	2	703.17	105	5.16	850 MHz	567	0.91%
AT&T 700 MHz LTE – Antenna 2	2	584.87	105	4.29	700 MHz	467	0.92%
AT&T 2300 MHz (WCS) LTE – Antenna 2	4	1,052.26	105	15.44	2300 MHz (WCS)	1000	1.54%
AT&T 700 MHz LTE (Band 14) – Antenna 3	2	626.70	105	4.60	700 MHz	467	0.98%
AT&T 700 MHz LTE – Antenna 4	2	486.47	105	3.57	700 MHz	467	0.76%
AT&T 1900 MHz (PCS) LTE – Antenna 4	4	970.64	105	14.24	1900 MHz (PCS)	1000	1.42%
						Total:	7.56%

Table 6: AT&T Maximum Sector MPE Power Values



Summary

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

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

AT&T Sector	Power Density Value (%)
Sector A:	7.56 %
Sector B:	7.56 %
Sector C:	7.56 %
AT&T Maximum Total (per sector):	7.56 %
Site Total:	24.88 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **24.88 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

A handwritten signature in black ink, appearing to read 'Scott Heffernan', is positioned above the contact information.

Scott Heffernan
RF Engineering Director
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767