

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

AMENDED PETITION OF T-MOBILE : PETITION NO. 764A
NORTHEAST LLC ("T-MOBILE) FOR A :
DECLARATORY RULING ON THE NEED TO :
OBTAIN A SITING COUNCIL CERTIFICATE :
FOR THE RELOCATION OF AN EXISTING :
WIRELESS TELECOMMUNICATIONS FACILITY :
ON A HIGH TENSION POWER LINE STRUCTURE :
WITHIN AN EXISTING EVERSOURCE :
TRANSMISSION EASEMENT :
437 HOBART STREET :
WILTON, CT : AUGUST 16, 2016

AMENDED PETITION FOR A DECLARATORY RULING TO
RELOCATE A WIRELESS TELECOMMUNICATIONS FACILITY
FROM EXISTING EVERSOURCE TRANSMISSION TOWER #1814 TO
APPROVED REPLACEMENT TRANSMISSION TOWER #1814
437 HOBART STREET, SOUTHINGTON, CT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies ("R.C.S.A."), T-Mobile Northeast LLC ("T-Mobile") 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") in order to relocate an existing wireless telecommunications facility approved by the Siting Council in Petition #764. A copy of the Council's staff report in Petition 764 is annexed hereto in Attachment A. Eversource requires T-Mobile to permanently relocate from existing transmission tower structure #1814 to a planned new tower that will be replaced as per the approval granted in Siting Council Petition 1201 ("Approved Tower"). See Attachment B. The new transmission tower structure #1814 will be located adjacent to the site of the current transmission tower located off of Hobart Street in Southington, CT (the "Site"). T-Mobile must construct its Relocation Facility ("Relocation Facility") during the necessary line outage required for installation of the Approved Tower.

II. Existing Facility and Eversource Project

The Siting Council approved the original facility in 2006 in Petition #764. The existing antennas are part of a power mount installed on existing transmission tower #1814 with equipment located at grade in an existing Eversource right-of-way (“Existing Facility”). Eversource structure #1814 is part of the supporting infrastructure for Eversource’s Line 1810, a 115-kilovolt (kV) transmission line extending from Forestville Junction in Southington to Lake Avenue Junction in Bristol. The existing tower #1814 is a double-circuit, steel lattice tower tangent structure. T-Mobile’s equipment is located in a fenced compound beneath the tower. Access to the Existing Facility is from an access road off of Hobart Street. Power and communications will continue to remain underground extending from an existing utility pole to the ground equipment.

Eversource is rebuilding and reconductoring approximately 1.85 miles of its existing Nos. 1800 and 1810 115-kV transmission lines from Southington Substation in Southington to Structure No. 1815 Southington, reinforcement of an existing transmission structure at Southington Substation in Southington, and related substation and transmission line structure improvements. Tower #1814 will be replaced with a double-circuit, galvanized steel tangent monopole structure on foundation. Eversource notified T-Mobile that the Existing Facility must be removed and relocated to the planned replacement tower and T-Mobile and Eversource have since coordinated on permanent relocation plans that are incorporated into this Amended Petition for the Relocation Facility.



Figure 1 Zoom-in image capture of project area as provided by Eversource in Siting Council Petition #1201. The “work pad” area for tower #1814 is outlined in red, the existing tower location is identified in blue while the new tower location is depicted

in yellow.

III. T-Mobile Relocation Facility

Federal Communications Commission ("FCC") licenses T-Mobile to provide wireless services in this area of the State of Connecticut. The Existing Facility has provided T-Mobile wireless services to a large area of Southington for 9 years. T-Mobile's proposed permanent relocation to existing transmission tower structure #1814 consists of masts and antennas that together will extend to approximately 104' AGL. T-Mobile will install six (6) panel antennas, along with associated equipment, at a centerline height of approximately 100' AGL, with the top of the antennas reaching an overall height of 104' on the 105' tall replacement Eversource transmission structure.

Access to the Relocation Facility is from an existing access road off of Hobart Street. The Replacement Facility will use existing electric and communication connections running underground from a utility pole on Hobart Street. All of the improvements are located within an existing Eversource right-of-way.

Included as Attachment C is a letter of authorization from Eversource granting AT&T the authority to file this Petition. Included as Attachment D are detailed drawings prepared by Centek Engineering, last revised August 16, 2016 providing plans, elevations, site details, site utility plans, abutters map and other aspects of the proposed Replacement Facility. Annexed hereto as Attachment E is a structural letter prepared by Centek Engineering dated August 16, 2016, concluding that the new pole will be adequate to support T-Mobile's proposed facility.

Adjacent land uses include the Eversource electric transmission towers and rights-of-way, and residential homes on Hobart Street, Old Farm Road and Reussner Road.

IV. The Relocated Facility Will Not Have a Substantial Adverse Environmental Effect

A. Site Footprint

A comparison of existing and proposed conditions as part of Petition 764 and this amendment to the approved plans reveals no substantial adverse environmental impacts associated with the mandatory relocation of T-Mobile's Existing Facility. The Relocation Facility consists of a similar power mount that will be constructed within the limits of the existing transmission line right-of-way. T-Mobile proposes no ground disturbance or tree clearing and no impacts to wetlands or other natural resources are anticipated.

B. Compliance with MPE Limits

A power density report is included in Attachment F which notes the facility will be less than 4% of the federal and state emission standards for the general public. As such, the total radio frequency power density will be well within the 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 Federal Communications Commission for the public.

C. Visibility

The proposed T-Mobile installation will not significantly alter the appearance of the Approved Tower and the installed antennas will be similar in appearance to the existing facility. A picture of the existing facility is included in Attachment G. The Relocation Facility requires no FAA lighting or marking as per the TOWAIR report included in Attachment H.

D. Species and Habitat Review

Review of the Department of Energy and Environmental Protection's Natural Diversity Database mapping indicates no area of concern around the site. Please see NDDDB map included in Attachment I. T-Mobile's Replacement Facility involves little to no ground disturbance and is in essence a minor modification of the Eversource Plans for the installation of the Approved Tower.

V. Public Need

The existing facility has been part of T-Mobile's wireless network providing reliable service in this part of the Town of Southington for approximately 9 years. While the Council does not have to find a public need for the relocation facility as part of a ruling on this Amended Petition, it is respectfully submitted that the Relocated Facility is critical to providing continued, reliable wireless service to the public living in and traveling through this area of the state. Moreover, this project is consistent with the state policy to avoid the proliferation of towers.

VI. Notice

Pursuant to R.C.S.A. Section 16-50j-40(a), notice of T-Mobile's intent to file this Amended 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 as listed in Section 16-50e of the C.G.S. Certification of such notice, a copy of the notice and the list of property owners and municipal officials are included in Attachment J.


VII. Conclusion

As set forth above, the proposed Relocated Facility is essentially a minor modification of the Approved Tower already reviewed in Petition 1201. Shared use

of such infrastructure is wholly consistent with legislative findings outlined in Section 16-50g and 16-50aa of the General Statutes of Connecticut that seek to avoid the unnecessary proliferation of towers in the State. Further, there are no known adverse environmental effects associated with the Relocation Facility. Therefore and for all of the foregoing reasons, T-Mobile petitions the Connecticut Siting Council for an amended approval in Petition #764 and not require a Certificate of Environmental Compatibility and Public Need for the relocation and that the Council issue an order approving the Amended Petition.

Respectfully submitted

T-MOBILE NORTHEAST LLC

By: 

Eric Dahl

Vertical Development, LLC

Agent for T-Mobile Northeast LLC

(860) 227-1975

edahl@comcast.net

cc: Garry Brumback, Town Manager, Town of Southington
Michael J. Green, Eversource
T-Mobile

ATTACHMENT A

Petition No. 764
Omnipoint/T-Mobile
437 Hobart Street, Southington, Connecticut
Staff Report
May 17, 2006

T-Mobile is seeking to add a ten-foot extension to an existing 90-foot transmission line tower located at 437 Hobart Street in Southington, Connecticut. The extension would support three flush-mounted antennas at a center line height of 97 feet. The overall height of the structure with extension would be 100 feet. T-Mobile would also install a 15-foot square compound for its ground equipment. The compound would be eight feet from the northwest corner of the tower. It would be enclosed by a six-foot chain link fence topped with barbed wire. An existing dirt path would be improved to provide a gravel access drive.

Council member Ed Wilensky and staff member David Martin conducted a field review of this project on May 12, 2006. They were joined by Attorney Gregory Piecuch who was representing T-Mobile.

The tower is located approximately 30 feet from the northerly edge of Hobart Street. The surrounding area is single family residential. The nearest homes are on either side of the tower on Hobart Street, approximately 210 feet to the west and 235 feet to the east. There are no homes immediately across Hobart to the south because the CL&P easement runs in this direction.

The tower is prominently visible along Hobart Street and, probably, from many of the homes in the area. The tower, however, is typical of those within the easement in this area. The base of the tower is very well screened on all sides by existing vegetation.

Attorney Piecuch reported that he had sent letters to the nearest neighbors notifying them of this pending petition. The letters were sent on Wednesday, May 10.

If the Council decides to approve this petition, it should consider requiring privacy slats in the chain link fence or a stockade fence to be installed in place of chain link and requiring that the existing screening vegetation be left intact to help shield the view of the equipment compound. The Council may also wish to consider requiring T-Mobile's equipment compound to be installed underneath the tower within its base as was done at a tower mount on Cathy Drive nearby in Southington (Petition 691).

UPDATE: During the field review, Mr. Wilensky asked if T-Mobile would consider locating its antennas on one of the other nearby towers since the one they propose to use is quite prominent to the surrounding area. We also asked if T-Mobile would consider installing a stockade fence to provide additional screening of their equipment. Subsequent to the field review, T-Mobile responded by letter that it would be willing to use a stockade fence rather than a chain link one. The letter also explained that T-Mobile explored the possibility of using another tower with CL&P. They were limited to the tower in the petition because of CL&P's concerns over the length of the access to other towers. In addition, the topography of the nearest towers is lower than the one to be used and would require T-Mobile to install a higher extension to achieve the same coverage.

ATTACHMENT B



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

Petition No. 1201

The Connecticut Light and Power Company d/b/a Eversource Energy Southington and Bristol, Connecticut

Staff Report

January 21, 2016

Introduction

On November 25, 2015, the Connecticut Siting Council (Council) received a petition (Petition) from The Connecticut Light and Power Company d/b/a Eversource Energy (Eversource) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for proposed modifications to the existing #1800 115-kV transmission line and the #1810 115-kV transmission line within existing rights of way (ROW) located in Bristol and Southington. Council members Phil Ashton and Robert Hannon and Council staff member Michael Perrone conducted a field review of the proposed project on January 5, 2016. John Morissette, Project Manager – Transmission Siting CT, Eversource; Jason Cabral, Project Manager, Eversource; and Justin Adams, Permitting, Eversource also attended the field review.

The proposed project is required to increase the transmission line rating for a portion of the #1810 line in order to eliminate the potential for transmission system thermal criteria violations based on the results of the May 2014 Greater Hartford and Central Connecticut Area (GHCC) Needs Assessment performed by ISO New England Inc. (ISO-NE) and in accordance with the February 2015 GHCC Solutions Study performed by ISO-NE. The proposed project, in combination with other necessary system improvements identified in the Solutions Study, eliminates thermal and voltage criteria violations identified in the Northwestern Connecticut geographic sub-area of the GHCC area.

Specifically, the project consists of three components as noted below:

- a) Reconductoring approximately 1.75 miles of the existing #1810 line from Forestville Junction in Southington to one structure past Lake Avenue Junction in Bristol and adding bracing to the existing wood H-frame structures;
- b) Rebuilding and reconductoring approximately 1.85 miles of the existing double-circuit lattice towers (DCLT) that support the existing #1800 and #1810 lines from Southington Substation to structure #1815 in Southington as the existing structures are not strong enough to support the larger conductor required for the new line rating on the #1810 line; and
- c) Reinforcement of an existing line terminal structure at Southington Substation within the existing fenced area.

In the reconductoring section (located in northern Southington and southern Bristol), the #1810 line shares the transmission ROW with the existing #1825 115-kV transmission line. In the rebuild section (located in Southington, roughly south of Interstate 84), the #1810 line shares the transmission ROW with the #1800 line, the existing #1820 line, and the #329 345-kV transmission line. The existing ROW was established in 1942. The existing #1800 and #1810 lines were put in service in 1962, and the #329 line was put into service in 1965.

Land in the project area includes rolling topography with some forest vegetation. Lands within the portions of the ROW occupied by transmission lines have been managed to promote shrub or similar low-growth vegetation. Land use adjacent to the reconductoring section is a mix of industrial and commercial uses with some undeveloped lands (e.g. open fields and forest lands). Land uses adjacent to the rebuild section are primarily residential.

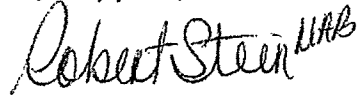


6. The facility owner/operator shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v;
7. This Declaratory Ruling may be transferred, provided the facility owner/operator/transferee is current with payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v and the transferee provides written confirmation that the transferee agrees to comply with the terms, limitations and conditions contained in the Declaratory Ruling, including timely payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v; and
8. If the facility owner/operator is a wholly owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated November 25, 2015 and additional information received on January 6, 2016.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein
Chairman

RS/MP/lm

Enclosure: Staff Report dated January 21, 2016

- c: The Honorable Michael Riccio, Chairman, Town of Southington
Garry Brumback, Town Manager, Town of Southington
Robert Phillips, Director of Planning and Community Development, Town of Southington
The Honorable Ken Cockayne, Mayor, City of Bristol
William Veits, Planning Commission Chairman, City of Bristol

Reconductoring Portion of the Project

Specifically, Eversource seeks to replace the existing 795-kcmil aluminum conductor steel reinforced (ACSR) conductors with new 795-kcmil aluminum conductor steel supported (ACSS) conductors on the #1810 line which is located on the west side of the double circuit structures from Forestville Junction to one structure past Lake Avenue Junction (structure nos. 1844 to 1860). Eversource would also reinforce seven existing double-circuit wood H-frame structures that support the #1810 line and the #1825 line. Reinforcement would consist of installing new cross bracing on four structures that currently do not have such bracing, installing additional cross bracing on one structure with existing bracing and replacing existing cross bracing on two structures. Eversource would also reinforce two horizontally configured DCLT structures that support the #1810 and the #1825 lines. Reinforcement would consist of installation of additional bracing angles in the truss area and reinforcing the two foundation footings of each of the two structures by excavating the soil around the base of the structure and filling with concrete. Finally, Eversource would install new optical ground wire from Forestville Junction to Lake Avenue Junction on the #1810 line side.

Rebuild Portion of the Project

Specifically, Eversource seeks to replace nine DCLT tangent structures with new direct-embedded double-circuit galvanized steel pole structures. Eversource would also replace each of six DCLT angle structures with two drilled shaft single-circuit galvanized steel poles on new foundations. The heights of the existing structures range between 95 feet to 105 feet above ground level. The proposed structures would be approximately 5 to 20 feet taller than existing structures and no taller than 120 feet. Eversource would also replace the existing 556-kcmil ACSR conductor with new 1272-kcmil ACSS conductor on the #1810 line. The existing 1272-kcmil ACSR on the #1800 line would be transferred from the existing DCLT onto the new steel pole structures. Eversource would also install new optical ground wire from structure #1805 to structure #1815 on the #1800 line side and install a new shield wire from Southington Substation to structure #1815 on the #1800 line side. Finally, Eversource would perform approximately 10 feet wide of tree/vegetation clearing along the western portion of the ROW to safely operate the proposed upgraded transmission facility.

Southington Substation Portion of the Project

Eversource would install braces on the truss area of the #1810 line terminal structure to provide additional reinforcement.

Construction Methods

The project would be constructed, operated, and maintained in accordance with established industry practices and in accordance with Eversource's December 2011 Best Management Practices Manual for Connecticut (Eversource BMPs). Construction vehicles and equipment would enter and exit the ROW at various points from public roads. To safely move construction vehicles and equipment on to and off the ROW, while minimizing disruptions to vehicular traffic along public routes, Eversource or its contractor would work with municipalities and/or Connecticut Department of Transportation as necessary.

Preparation of the ROW would include vegetative removal or mowing of the managed portion of the ROW. Woody vegetation within the ROW that could interfere with the operation of the transmission would be removed. No tree clearing is anticipated in the reconductoring section. However, some limited vegetation removal would be required within construction areas, access roads and work/pull pad areas. The removal would be performed by manual and/or mechanical methods. In the rebuild section, 10 feet of clearing would occur to the western limits of the ROW, and all vegetation would be removed using mechanical methods that could include chainsaws, brush mowing units, tree harvesters, feller-bunchers, forwarders, log skidders, and log trucks.

There would be no permanent fill within wetlands as a result of the project. Any temporary impacts to wetlands would be limited to construction matting (a/k/a "swamp mats") that would be removed and the area restored to pre-construction conditions. Another section of the project would utilize a temporary bridge to cross wetlands and minimize impacts. No structures to be replaced or modified would be located within wetlands.

Two vernal pools identified in the vicinity of the proposed project are located approximately 352 feet and 492 feet from structure number 1860 (to be modified) in the reconductoring section of the project. The structure is located well outside of the 100-foot Vernal Pool Envelope, and clearing within the 750-foot Critical Terrestrial Habitat would be negligible because clearing is not anticipated in the reconductoring portion of the project.

The proposed project is not located within a 100-year or 500-year flood zone.

There are no public supply reservoirs, public/private water supply wells or aquifer protection areas located in the vicinity of the proposed project.

Any new access required would be minimized and has been identified in the Petition. Existing access routes may be improved as needed with additional gravel in select areas.

Erosion and sedimentation (E&S) control measures would be installed in accordance with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* and Eversource's best management practices. Temporary E&S controls would remain in place until construction is complete and all disturbed areas are stabilized.

For the rebuild portion of the project, magnetic fields would decrease along the western edge of the ROW. Magnetic fields along the eastern edge of the ROW would be essentially unchanged. For the reconductoring portion of the project, magnetic fields would decrease very slightly along both the northern and southern edges of the ROW. The worst-case existing and proposed magnetic fields are located along the eastern edge of the ROW in the rebuild section from Southington Substation to Structure #1805 at approximately 140 milliGauss (mG). This is far below the International Commission on Non-ionizing Radiation Protection acceptable exposure level of 2,000 mG for general public as recognized in the Council's "Electric and Magnetic Field Best Management Practices for the Construction of Electric Transmission Lines in Connecticut."

There would be no changes to the existing sound levels along the transmission ROWs after completion of the project. No new equipment would be installed at Southington Substation; thus, noise levels at Southington Substation would remain unchanged.

The visual impacts associated with the reconductoring portion of the project are not expected to be significant. Specifically, many of the H-frame structures already have X-braces. Additional braces would actually improve the visual profile by making the transmission structures in the ROW appear more uniform. Reconductoring does not increase the number of phase conductors as it is a one for one "swap" so it would appear similar afterwards. Optical ground wires are much less visible than existing phase conductors and would not materially affect visibility. Additional steel diagonals to reinforce DCLT structures would blend in visually and have no visual impact. Foundation modifications would have zero visual impact.

For the rebuild portion of the project, replacing DCLT structures with steel pole structures would result in a more narrow visual profile because steel pole structures generally have a smaller footprint than lattice towers. However, the steel structures would have a worst-case increase in height in range of five to 20 feet. The reconductoring and installation of optical ground wire portions of the project would not have a significant effect on visibility.

Clearing 10 feet of tree/vegetation along the western portion of the ROW may have significant visual impacts in select portions of the line, including but not limited to the vicinity of the SLVCC. To address this issue, Eversource has consulted with the SLVCC and other abutters (and will continue to do so) and would develop a landscaping plan that helps replace some of the visual buffer and improve aesthetics while only allowing shorter landscape plantings that would not affect transmission line reliability. Council staff recommends that the landscape plan be submitted to the Council.

The visual impact associated with the modifications to the terminal structure inside Southington Substation would be negligible because the existing structure would be maintained with the same height, and the work would remain within the existing fenced substation.

Municipal and abutter notice

In June 2015, Eversource consulted with the Town of Southington (Town) and City of Bristol (City). Eversource also performed outreach with property owners, particularly for the rebuild section in Southington (which includes clearing). Formal notice of the Petition was provided to the Town, the City, and abutting property owners on or about November 19, 2015. The Council has not received any comments from abutters or the municipalities to date.

Staff recommends including the following condition:

1. A landscaping plan shall be prepared in consultation with Spring Lake Village Condominium Complex and other abutters (as applicable) to mitigate the visual impacts of the 10-foot clearing in the ROW, and such plan shall be submitted to the Council.

ATTACHMENT C



107 Selden Street
Berlin, CT 06037

August 9, 2016

Steven Andrade
Area Director, CT and UPNY
T-Mobile Northeast LLC
35 Griffin Road, South
Bloomfield, CT 06002

Re: Site Permitting Authorization

Dear Mr. Andrade,

Authorization is hereby given to T-Mobile Northeast LLC , its employees and its duly authorized agents and independent contractors (hereinafter collectively referred to as "T-Mobile Northeast LLC "), to apply for any and all local municipal, state and federal licenses, permits and approvals, including but not limited to Connecticut Siting Council, building permits, zoning variances, zoning special exceptions, site plan and subdivision approvals, driveway, wetlands and terrain alteration permits, which are or may be necessary or required for T-Mobile Northeast LLC to construct, operate and maintain a wireless communications system (PCS System), and/or antenna site on the following property owned by The Connecticut Light & Power Company dba Eversource Energy (ES):

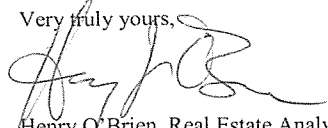
437 Hobart Street
Southington, CT 06489
Structure #1814
CT11734B

The foregoing authorization is given subject to the following conditions:

1. This authorization shall be nonexclusive. Nothing herein shall prevent or restrict ES from authorizing any other person or entity to apply for any similar licenses, permits or approvals to construct, operate and maintain any other communication system or facility of any type on the property at any time.
2. This authorization shall not obligate ES to pay for or reimburse any costs or expenses or to provide any assistance of any kind in connection with any applications, or bind or obligate ES to agree or be responsible for any on-site or off-site improvements, development restrictions, impact fees or assessments, capital improvement charges, bonds or other security, or any other fee, assessment, charge or expense imposed or required as a condition of any license, permit or approval. T-Mobile Northeast LLC shall be solely and fully responsible for all fees, charges costs and expenses of any kind in connection with any applications. ES agrees to reasonably cooperate with T-Mobile Northeast LLC in signing such applications or other similar documents as may be required in order for T-Mobile Northeast LLC to apply for any license, permit or approval.

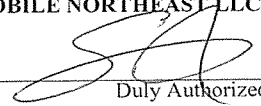
3. This authorization shall not be deemed or construed to grant or transfer to T-Mobile Northeast LLC any interest in the property, whatsoever, and shall not in any respect obligate or require ES to sell, lease or license the Property to T-Mobile Northeast LLC or otherwise allow T-Mobile Northeast LLC to use or occupy the property for any purpose, regardless of whether any licenses, permits and approvals applied for by T-Mobile Northeast LLC for the property are granted. T-Mobile Northeast LLC understands and acknowledges that any and all applications filed by T-Mobile Northeast LLC for the property at T-Mobile Northeast LLC sole risk and without any enforceable expectation that the property will be made available for T-Mobile Northeast LLC ' use.
4. T-Mobile Northeast LLC shall be required to supply to ES, free of charge and contemporaneous with T-Mobile Northeast LLC filing of same, a complete copy of any and all applications, plans, reports and other public filings made by T-Mobile Northeast LLC with any local, municipal, state or federal governmental or regulatory officer, agency board, bureau, commission or other person or body for any licenses, permits or approvals for the property, and to keep ES fully informed on a regular basis of the status of T-Mobile Northeast LLC ' applications.
5. This authorization shall automatically expire six (6) months after the date of this letter, unless extended in writing by mutual agreement of ES and T-Mobile Northeast LLC.

Very truly yours,



Henry O'Brien, Real Estate Analyst
T & D ROW & Survey Engineering
Eversource Energy

**AGREED TO ON BEHALF OF
T-MOBILE NORTHEAST LLC**

By:  _____
Duly Authorized

Steven Andrade
Director Eng & Ops
Connecticut & UPNY

Date: 8/4/16

437 Hobart Street
Southington, CT 06489
Structure #1814
CT11734B

ATTACHMENT D



WIRELESS COMMUNICATIONS FACILITY

CT734/CL+P STANCHION

SITE ID: CT11734B

EVERSOURCE STRUCTURE NO. 1814

437 HOBART ST

SOUTHINGTON, CT 06489

PROJECT SUMMARY

THE GENERAL SCOPE OF WORK CONSISTS OF THE FOLLOWING:
1. A TOTAL OF SIX (6) DIRECTRUM PANEL ANTENNAS ARE TO BE MOUNTED TO THE EXISTING STRUCTURE. THE ANTENNAS ARE TO BE MOUNTED TO THE EXISTING STRUCTURE. THE ANTENNAS ARE TO BE MOUNTED TO THE EXISTING STRUCTURE. THE ANTENNAS ARE TO BE MOUNTED TO THE EXISTING STRUCTURE.
2. POWER & TELCO UTILITIES WILL BE LOCATED UNDERGROUND FROM THEIR RESPECTIVE ENTRANCE LOCATED WITHIN THE EXISTING FINISHED COMPOUND.

PROJECT INFORMATION

SITE NAME: CT734/CL+P STANCHION
SITE ID: CT11734B
SITE ADDRESS: EVERSOURCE STRUCTURE NO. 1814, SOUTHINGTON, CT 06489
TOWER OWNER: DIRECTRUM, HARTFORD, CT 06103
APPLICANT: T-MOBILE NETWORKS, LLC, 350 WEST 34TH STREET, NEW YORK, NY 10001
CONTRACT PERSON: MATT INHALL (PROJECT MANAGER), WIRELESS DEVELOPMENT, LLC, (860) 942-5667
OWNER: EVERSOURCE STRUCTURE NO. 1814, 437 HOBART ST, SOUTHINGTON, CT 06489
PROJECT COORDINATOR: LUTTILOS, 417-307-7347, 17 GRAND ELEVATION, 288 S. AMEL, SOUTHINGTON, CT 06489
SITE COORDINATES AND ELEVATION REFERENCED FROM THE CSC DRAWING.

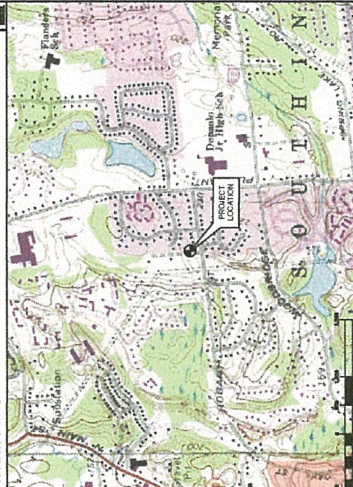
GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2006 CONNECTICUT SUPPLEMENT, INCLUDING THE 2006 SUPPLEMENT TO THE 2003 INTERNATIONAL BUILDING CODE AND 2006 AMENDMENTS, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN CONNECTION WITH THIS PROJECT. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS. THE CONTRACTOR SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- CONTRACTOR SHALL PROVIDE A COMPLETE SET-OUT WITH ALL UTILITIES AND PROVIDE ALL TIE-INS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIALS, LABORS AND SERVICES IN ACCORDANCE WITH LOCAL AND STATE CONVENING AUTHORITIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS THAT ARE REQUIRED FOR THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A GUARDRAILS OR FENCING AND OTHER SAFETY MEASURES TO PROTECT ALL PERSONS AND OTHER RELEVANT PARTIES AS NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS MARKED AND REVEALED FROM THE CONTRACT AREA.
- CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OTHER WORK CONTRACTORS AS WORK COMPLETED BY OTHERS THAT IS DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL UTILITIES ACTIVITIES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCES, AND TO ENSURE THE SAFETY OF ALL PERSONS INCLUDING THE MAINTENANCE OF WHATEVER SHOWING, BRANCHES, UNDERPASSING, ETC. THAT MAY BE NECESSARY.
- ALL UTILITIES SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REGULATIONS AND SPECIFICATIONS.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL DAMAGE CAUSED TO ANY EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
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SITE DIRECTIONS

- FROM:** 38 GREEN ROAD SOUTH, SOUTHINGTON, CT 06489
TO: 437 HOBART ST, SOUTHINGTON, CT 06489
- HEAD NORTHWEST ON GREEN RD S TOWARD W INDEPENDENT RD
 - TURN RIGHT ONTO GREEN RD S
 - DRIVE 0.8 MILE
 - DRIVE 0.5 MILE
 - DRIVE 0.5 MILE
 - DRIVE 0.5 MILE
 - DRIVE 0.5 MILE
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 - DRIVE 0.5 MILE
 - DRIVE 0.5 MILE

VICINITY MAP



SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
1	TITLE SHEET	2
1-1	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-2	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-3	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-4	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-5	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-6	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-7	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-8	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-9	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2
1-10	DESIGN BASIS AND STRUCTURAL SPECIFICATIONS	2

T-MOBILE NORTH-EAST LLC WIRELESS COMMUNICATIONS FACILITY SITE ID: CT11734B 437 HOBART STREET SOUTHINGTON, CT 06489	DATE: 07/26/14 SCALE: AS SHOWN JOB NO.: 10123.00	TITLE SHEET	T-1
CONTRACTOR: GINTER CORPORATION 1430 York Road Westfield, CT 06097 860-271-5151 www.gintercorp.com	PROJECT COORDINATOR: LUTTILOS, 417-307-7347, 17 GRAND ELEVATION, 288 S. AMEL, SOUTHINGTON, CT 06489	DESIGNER: GINTER CORPORATION 1430 York Road Westfield, CT 06097 860-271-5151 www.gintercorp.com	PROJECT NO.: 10123.00
DATE: 08/17/14 TIME: 10:00 AM BY: GINTER CORPORATION	DATE: 08/17/14 TIME: 10:00 AM BY: GINTER CORPORATION	DATE: 08/17/14 TIME: 10:00 AM BY: GINTER CORPORATION	DATE: 08/17/14 TIME: 10:00 AM BY: GINTER CORPORATION

STRUCTURAL SPECIFICATIONS

DESIGN BASIS

- CONFORMS TO 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2005 OF STATE BUILDING CODE AND 2009 AMENDMENTS.
- TU/73-22-1-1884, AISC MANHA, NO. 73 - DESIGN OF STEEL TRANSMISSION POLE STRUCTURES SECOND EDITION, NESC C1-2007 AND NORTHWEST UTILITIES DESIGN CRITERIA.
- DESIGN CRITERIA.

WIND LOAD: ADULTERY SCALE A (TRANSMISSION)
 WIND SPEED: 130 MPH (3-SECOND GUST) BASED ON NESC
 CODE SECTION 2303.1
 SECTION 2303.1

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE TO BE PROVIDED BY AN APPROVED AGENCY Hired BY CONTRACTOR TO INSPECT AND REPORT ON THE SPECIAL INSPECTIONS REQUIRED BY LOCAL JURISDICTION, THE UNITED STATES OF AMERICA.

GENERAL NOTES

- IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONSULT IS SATISFACTORILY RESOLVED.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND CUTTINGS TO BE MADE IN ALL TRADES.
- REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

SITE NOTES

- THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- ACTIVE EXISTING UTILITIES, WHEN ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY PRIOR TO PROCEEDING. SHOULD ANY UNANTICIPATED EXISTING UTILITIES PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL WORK.
- THE SITE SHALL BE GRADED TO MAINTAIN PROPER DRAINAGE TO FLOW AWAY FROM THE EQUIPMENT AND TRUCK AREA.
- NO FILL OR DRAINAGE MATERIAL SHALL BE PLACED ON BROKEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR DRAINAGE.
- THE CONTRACTOR SHALL MAINTAIN A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL MAINTAIN DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. DRAINAGE CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTIONS FOR EROSION AND SEDIMENT CONTROL.
- IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONSULT IS SATISFACTORILY RESOLVED.
- APPROVED AND DENIED SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.

T-MOBILE NORTHEAST LLC 430 HOBART STREET SOUTHINGTON, CT 06488 PHONE: (860) 438-3300 FAX: (860) 438-3301 WWW.T-MOBILE.COM		CT734/CL+P STANCHION SITE ID: CT734B		DATE: 07/21/18 SCALE: AS NOTED DRAWN BY: [REDACTED]	
INTERCOMP DESIGN 1000 W. WASHINGTON SUITE 100 WASHINGTON, DC 20004 PHONE: (202) 462-1100 FAX: (202) 462-1101 WWW.INTERCOMPDESIGN.COM		DATE: 07/21/18 SCALE: AS NOTED DRAWN BY: [REDACTED]		DESIGN BASIS AND STRUCTURAL SPECIFICATIONS L-N Sheet No. 2 of 2	
PROFESSIONAL DESIGN SEAL [REDACTED]		[REDACTED]		[REDACTED]	

SITE LOCATION
PLAYLAND
ABUTTERS MAP

DATE: 07/27/18
SCALE: AS SHOWN
JOB NO. 180320

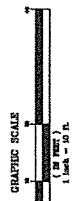
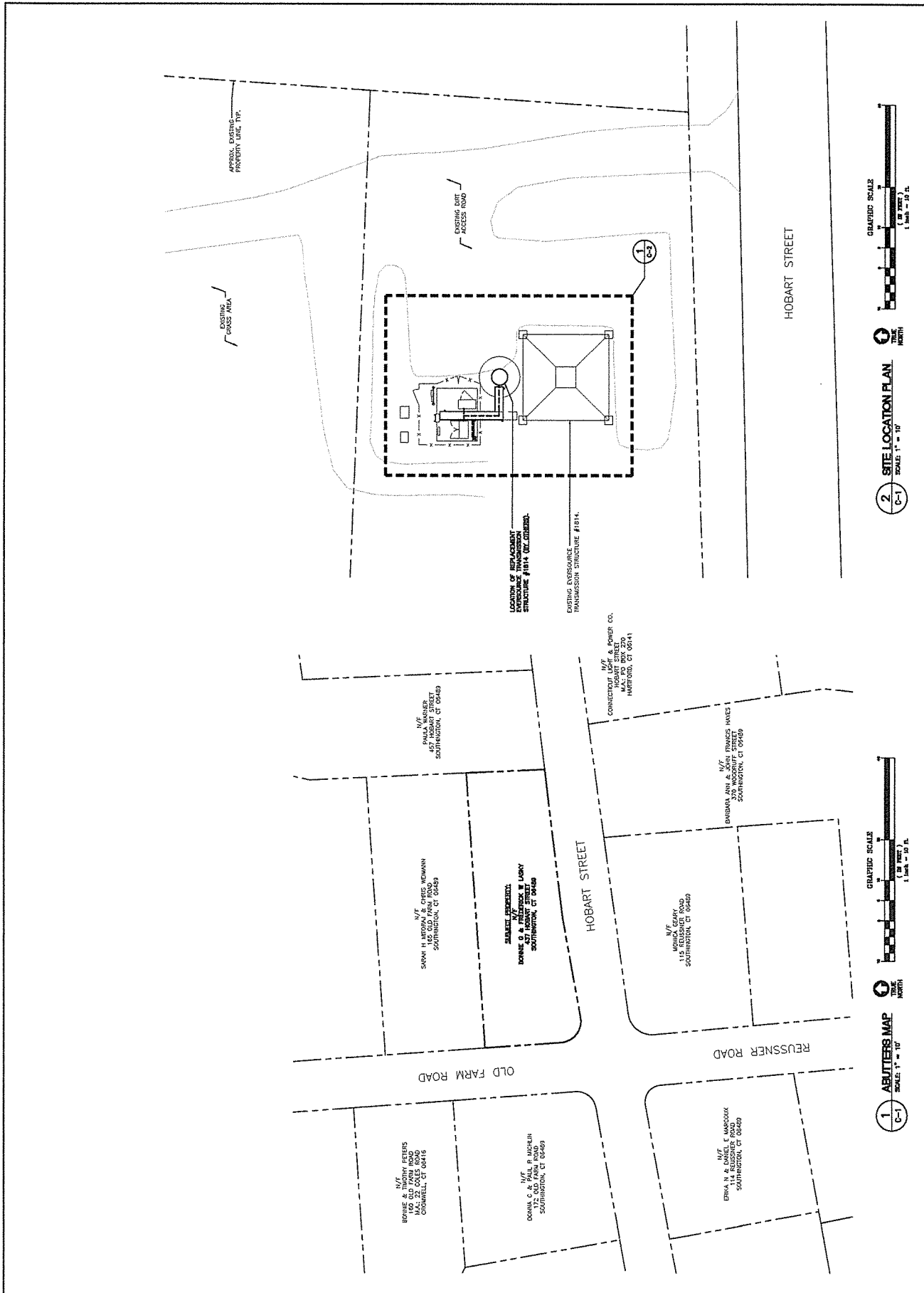
T-MOBILE NORTH-EAST LLC
WIRELESS COMMUNICATIONS FACILITY
437 HOBART STREET
SOUTHINGTON, CT 06488
SITE ID: CT1734B

CENTEK CORPORATION
1111
60 South Bedford Road
Bedford, CT 06021
www.centekgroup.com

T-Mobile

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/02/18	MM	MM	CONSTRUCTION DIMENSIONS - ISSUED FOR CONDOT REVIEW
2	08/17/18	MM	MM	REVISED CONSTRUCTION DIMENSIONS - FINAL ISSUED TO OWNER

PROFESSIONAL ENGINEER SEAL



LOCATION OF WIRELESS COMMUNICATIONS TRANSMISSION STRUCTURE #1814 (SEE ORDER)

EXISTING POWER TRANSMISSION STRUCTURE #1814

CONNECTICUT LIGHT & POWER CO.
HOBART STREET
HARTFORD, CT 06111

N/E
EMILIA WALKER
SOUTHINGTON, CT 06488

N/W
SOMER H. WELDON & CHRIS NEUMANN
SOUTHINGTON, CT 06489

N/E
MARKET PROPERTIES
437 HOBART STREET
SOUTHINGTON, CT 06488

N/E
DORISDA ANN & W/F FRANCES HINES
370 WOODRUFF STREET
SOUTHINGTON, CT 06488

N/W
LINDA CERRY
SOUTHINGTON, CT 06489

N/E
DORINE & TIMOTHY PETERS
140 2ND CROSS ROAD
CHROMEVELL, CT 06416

N/E
DONNA C. & PAUL P. MCKEN
SOUTHINGTON, CT 06488

N/W
EMMA H. & DAVID E. MARCOUX
114 REUSSNER ROAD
SOUTHINGTON, CT 06488

APPROX. EXISTING FACTORY BLDG. TYP.

EXISTING GROSS AREA

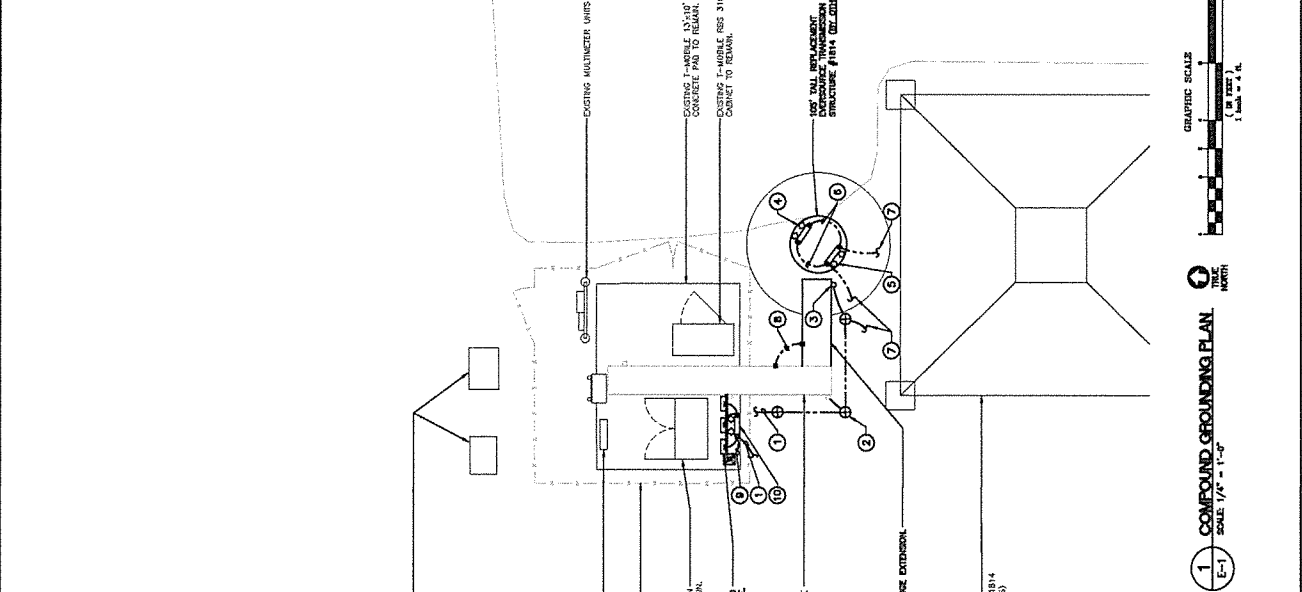
EXISTING GAS SERVICE ROAD

COMPEN CONSTRUCTION MANAGEMENT 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.COMPEN.COM	T-MOBILE COMMUNICATIONS 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.T-MOBILE.COM	COMPEN CONSTRUCTION MANAGEMENT 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.COMPEN.COM	COMPEN CONSTRUCTION MANAGEMENT 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.COMPEN.COM	COMPEN CONSTRUCTION MANAGEMENT 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.COMPEN.COM	COMPEN CONSTRUCTION MANAGEMENT 457 HOBART STREET SOUTHINGTON, CT 06488 TEL: 860.261.1111 FAX: 860.261.1112 WWW.COMPEN.COM
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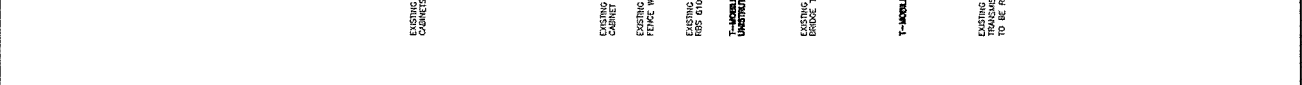
GROUNDING PLAN

- GROUNDING PLAN NOTES**
1. ALL EXISTING WORK MUST BE COORDINATED WITH, AND APPROVED BY TOWER UNDER PRIOR TO INSTALLATION.
 2. VERIFY ALL EXISTING GROUNDING ELEMENTS REQUIRED BY TOWER MANUFACTURER.
 3. REFER TO GROUNDING SCHEMATIC AND ALL DETAILS FOR ADDITIONAL INFORMATION.
 4. TOWER GROUNDING TO BE PROVIDED BY OTHERS AND IS NOT PART OF THE SCOPE OF THESE PLANS.
 5. ALL NEW WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.
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1 **COMPOUND GROUNDING PLAN**
 SCALE: 1/4" = 1'-0"

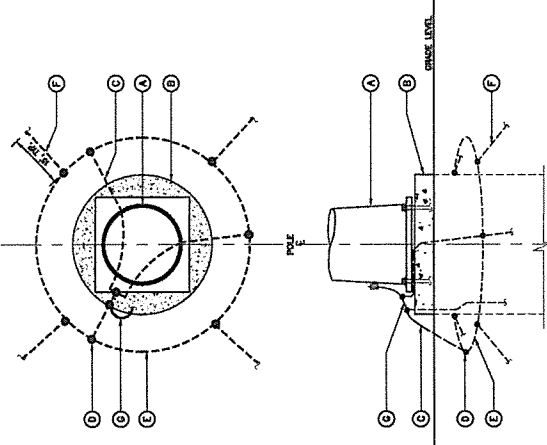


1 **COMPOUND GROUNDING PLAN**
 SCALE: 1/4" = 1'-0"
 NORTH

NORTH-EAST UTILITIES - TOWER GROUNDING SYSTEM NOTES

- GENERAL - CONTRACTOR SHALL FURNISH THE WIRE, CONNECTORS, AND MISCELLANEOUS MATERIAL ASSOCIATED WITH THE GROUNDING SYSTEM.
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE GROUNDING SYSTEM AND TO MAINTAIN THE SYSTEM AS CLOSE AS POSSIBLE TO THE ORIGINAL CONDITION.
 2. THE CONTRACTOR SHALL HANDLE AND TRANSPORT THE OTHER SUPPLIED MATERIAL FROM THE OWNER'S DESIGNATED STORAGE AND TRUCK UNLOADING AREA TO THE CONTRACTOR'S STORAGE AND TRUCK UNLOADING AREA. NORTH-EAST UTILITIES WILL BE RESPONSIBLE FOR PERFORMING TESTS FOR SURGE IMPEDANCE AND WAVE IMPEDANCE.
- INSTALLATION -
1. UNLESS OTHERWISE SPECIFIED BY THE OWNER'S REPRESENTATIVE, COUNTERPOISE SHALL BE BURIED A MINIMUM OF 24" IN COMPACTED GRADE AND 18" IN WOODS OR OTHER AREAS IN WHICH GRADE OR WOODS ARE NOT AVAILABLE. ALL INSTALLATIONS SHALL INCLUDE CONNECTIONS TO EXISTING OR PROPOSED STRUCTURES, AND SUCH CONNECTIONS SHALL BE MADE USING GALVANIZED PARALLEL BARS OR CONDUCTORS.
 2. WIRE MESH STRUCTURE GROUNDS MUST BE USED AT ALL POLE STRUCTURES. THEY SHALL BE CONNECTED TO THE PILE TO THE FIELD WIRE AT STRUCTURES THAT HAVE POLE GROUNDS AND ALSO POLE CRYSTALS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 10" OF WOOD POLE STRUCTURE BETWEEN THE COUNTERPOISE AND ANCHOR RODS SHALL BE 1/2" AT WOOD POLE STRUCTURES. NO SUCH POLE GROUNDS SHALL BE USED AT STEEL POLE STRUCTURES.
 3. AT STEEL POLE STRUCTURES, A BURIED GROUND ROD AND SPREAD SHALL ALSO BE INSTALLED AROUND THE COUNTERPOISE. THE GROUND ROD SHALL BE 1/2" IN DIAMETER AND 6' LONG. THE SPREAD SHALL BE 36" WIDE AND 4" DEEP. THE GROUND ROD SHALL BE CONNECTED AT 90 DEGREES TO THE COUNTERPOISE AND THE SPREAD SHALL BE CONNECTED TO THE COUNTERPOISE AT THE POINT OF CONTACT WITH THE STRUCTURE.
 4. AT WOOD POLE STRUCTURES, AN 8' LENGTH OF PLASTIC INSULATED WIRE SHALL BE SPREAD OVER THE BOTTOM WITH 8" OF DOWNHILL.

- GROUND RODS -
1. THEY SHALL BE BURIED VERTICALLY INTO THE GROUND TO A DEPTH WHICH WILL LEAVE THE TOP OF THE ROD 18" ABOVE FINISHED GRADE. ALL RODS SHALL BE CONNECTED TO COUNTERPOISE OR TO POLE GROUNDS USING GALVANIZED PARALLEL BARS OR CONDUCTORS.
- CONNECTIONS -
1. SELECTIVE CLEANING PROCEDURES WERE USED IN THE DEVELOPMENT OF THE NORTH-EAST UTILITIES AND GROWTH OF THE SYSTEM HAS OCCURRED SINCE THE ORIGINAL DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL EXISTING AND PROPOSED CONNECTIONS AND FOR THE IDENTIFICATION OF ALL EXISTING AND PROPOSED CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL EXISTING AND PROPOSED CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL EXISTING AND PROPOSED CONNECTIONS.
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1. NU TOWER GROUNDING DETAIL
NOT TO SCALE

- NU TOWER GROUNDING NOTES:**
1. STEEL HYBRID POLE.
 2. CONCRETE CHERRY TYPE FOUNDATION.
 3. STANDARD COUNTERPOISE SPREAD FROM POLE GROUND TO 36" FROM THE PERIPHERY OF THE FOUNDATION.
 4. STANDARD WOOD POLE STRUCTURE WITH GALVANIZED PARALLEL BARS OR CONDUCTORS.
 5. WIRE MESH STRUCTURE GROUNDS MUST BE USED AT ALL POLE STRUCTURES. THEY SHALL BE CONNECTED TO THE PILE TO THE FIELD WIRE AT STRUCTURES THAT HAVE POLE GROUNDS AND ALSO POLE CRYSTALS.
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 8. AT WOOD POLE STRUCTURES, AN 8' LENGTH OF PLASTIC INSULATED WIRE SHALL BE SPREAD OVER THE BOTTOM WITH 8" OF DOWNHILL.
- GENERAL NOTES:
1. THE INFORMATION ON THIS SHEET REPRESENTS TYPICAL NORTH-EAST UTILITIES REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE IN THE MANNER FOR SPECIFIC (AND CURRENT) REQUIREMENTS AT THIS SITE.

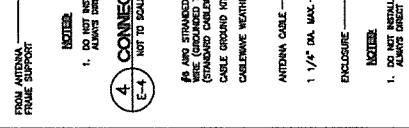
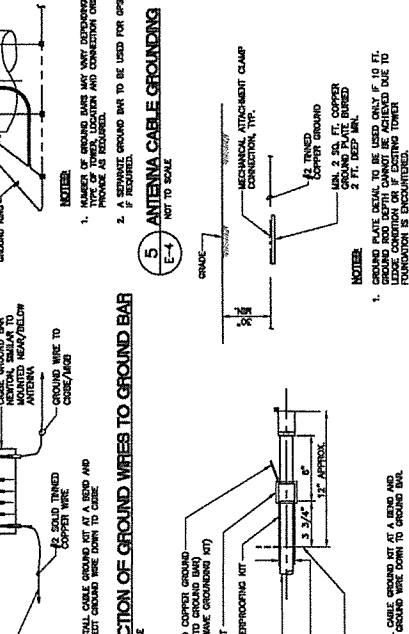
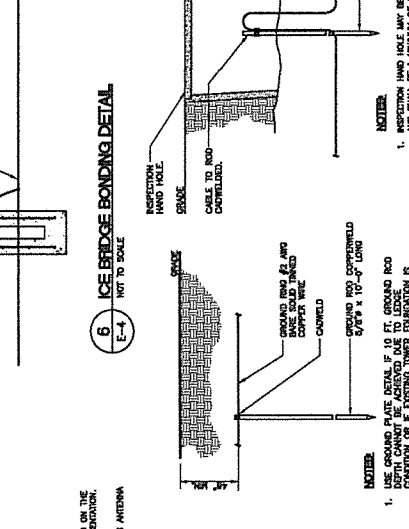
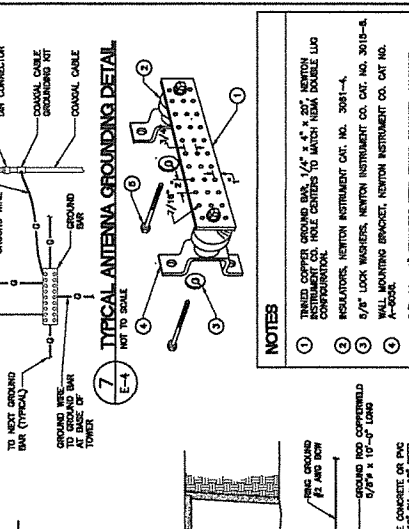
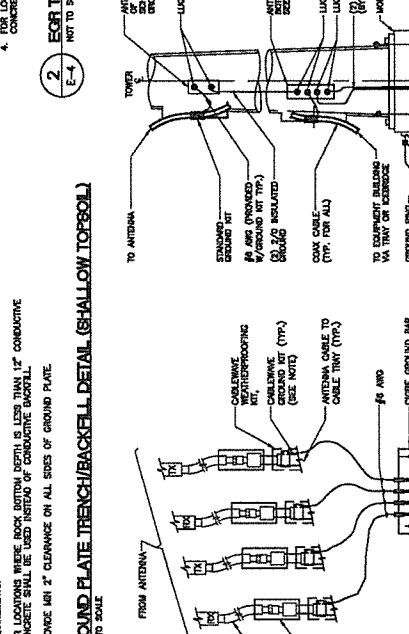
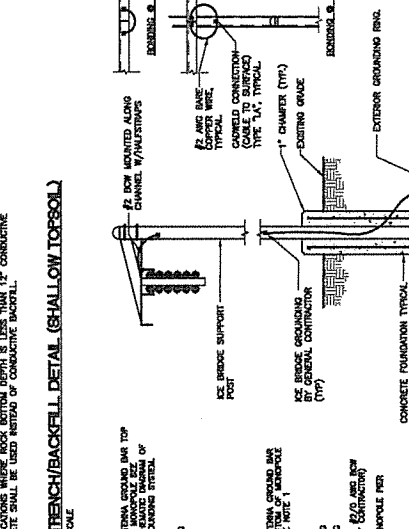
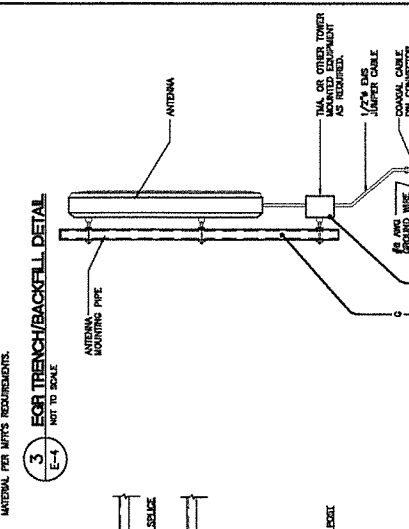
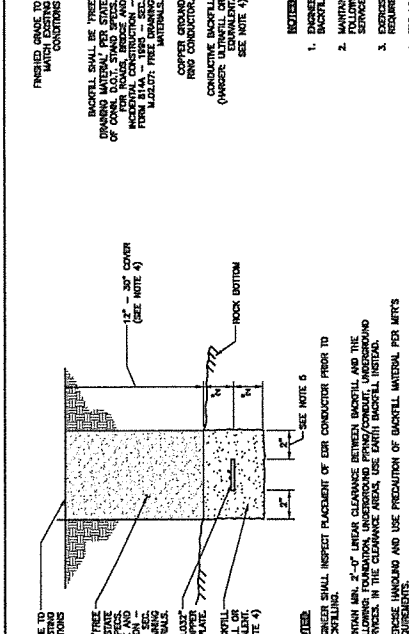
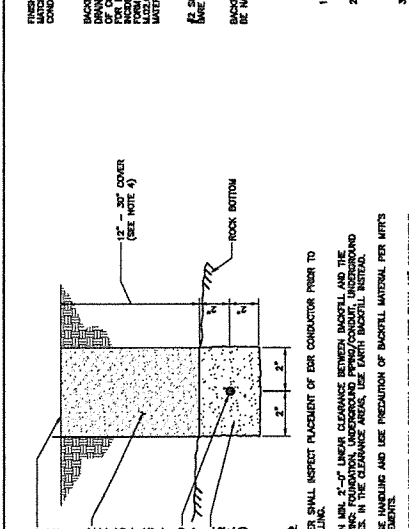
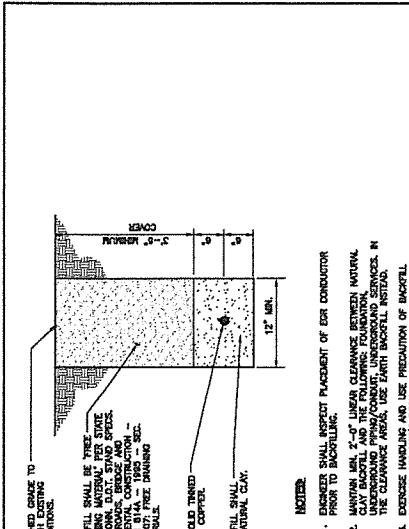
1-MOBILE NORTH-EAST LLC
PROJECT COMMENCING DATE: 07/24/16
SITE ID: CT734B
437 HOBART STREET
SOUTHINGTON CT 06488

CT734/CL/P STANCHION

Contractor: **ENTER**
12345 Main Street
67890 City, CT 06488
Phone: (860) 123-4567
Fax: (860) 987-6543
www.enter.com

Professional Engineer Seal: **Mobile**

NO.	DATE	BY	DESCRIPTION
1	07/24/16	MM	ISSUED FOR PERMIT
2	08/15/16	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
3	09/17/16	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
4	10/11/16	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
5	11/01/16	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
6	12/01/16	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
7	01/01/17	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
8	02/01/17	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
9	03/01/17	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE
10	04/01/17	MM	REVISED CONSTRUCTION SWIMMER - TRAIL REDUCED TO QUOTE



NOTES:

- ENGINEER SHALL INSPECT PLACEMENT OF EOR CONDUCTOR PRIOR TO BACKFILLING.
- MAINTAIN MIN. 2"-0" LINEAR CLEARANCE BETWEEN BACKFILL AND THE CONDUCTIVE BACKFILL (WASHER, EXHAUST/INTAKE, ETC.) IN THE CLEARANCE AREAS. USE DARTH BACKFILL INSTEAD.
- EXERCISE HANDLING AND USE PRECAUTION OF BACKFILL MATERIAL PER MITS REQUIREMENTS.
- FOR LOCATIONS WHERE ROCK BOTTOM DEPTH IS LESS THAN 12" CONSTRUCTIVE CONCRETE SHALL BE USED INSTEAD OF CONDUCTIVE BACKFILL.

NOTES:

- NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE HEIGHT OF TOWER AND CONDUCTOR DISTRIBUTION.
- A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

NOTES:

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

NOTES:

1. 1/2" DIA. MAX. 3 3/4" 12" APERTURE.
1. 1/2" DIA. MAX. 3 3/4" 12" APERTURE.

NOTES:

1. USE GROUND PLATE DETAIL IF 10 FT. GROUND ROD IS USED. GROUND ROD SHALL BE CONCRETE AS PER CONDITION OF EXISTING TOWER FOUNDATION IS ENCOUNTERED.
- AND SHALL BE A MINIMUM OF 12" DIA. X 14" DEPT.

NOTES:

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- A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

NOTES:

1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE HEIGHT OF TOWER AND CONDUCTOR DISTRIBUTION.
- A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

ATTACHMENT E



Centered on Solutions™

July 22, 2016

Mr. Matthew Bandle
Site Acquisition Project Manager
Vertical Development, LLC
20 Commercial Street
Branford, CT 06405

Re: *Structural Letter*
T-Mobile – Site Ref. CT117348
Eversource Structure No. 1814
437 Hobart Street
Southington, CT 06489

Centek Project No. 16093.00

Dear Mr. Bandle,

Centek Engineering, Inc. has reviewed the proposed T-Mobile antenna installation at the above referenced site. The purpose of the review is to determine if the proposed Sabre tower design, as performed by Sabre Industries, P.O. no. 02284656, dated June 20, 2016 (Rev. 1), incorporates T-Mobile's proposed antenna configuration.

The proposed T-Mobile loading consists of the following installed at a RAD center elevation of 100-ft above grade level based on a T-Mobile RFDS, dated June 22, 2016:

• **T-Mobile (Proposed Final Configuration):**

Antennas:

- *Three (3) APX16DWV-16DWV-S-E-A20*
- *Three (3) LNX-6515DS-A1M*

Tower Mounted Amplifier (TMA):

- *Six (6) Generic T-Mobile Twin TMA's*

Cables:

- *Eighteen (18) 7/8" dia. coax cables mounted on transmission line brackets to a face of the tower.*

Based on our review of the structural analysis provided, it is our opinion that the proposed loading has been incorporated within the design of the replacement Eversource structure No. 1814.

ATTACHMENT F

**RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS**

T-Mobile Existing Facility

Site ID: CT11734B

**CT734/CL&P Stanchion
437 Hobart St
Southington, CT 06489**

August 11, 2016

EBI Project Number: 6216003569

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	3.69 %

August 11, 2016

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CT11734B – CT734/CL&P Stanchion**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **437 Hobart St, Southington, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile 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 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.

Public 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 limit for the 700 MHz Band is approximately 467 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) 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 done for the proposed T-Mobile Wireless antenna facility located at **437 Hobart St, Southington, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile 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.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 UMTS channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 UMTS channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel
- 5) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.

- 6) Since the radios are ground mounted there are additional cabling losses accounted for. For each ground mounted RF path the following losses were calculated. 1.24 dB of additional cable loss for all ground mounted 700 MHz Channels, 2.18 dB of additional cable loss for all ground mounted 1900 MHz channels and 2.25 dB of additional cable loss for all ground mounted 2100 MHz channels. This is based on manufacturers Specifications for 130 feet of 7/8" coax cable on each path.
- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. 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. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the **RFS APX16DWV-16DWVS-E-A20** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **Commscope LNX-6515DS-VTM** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **RFS APX16DWV-16DWVS-E-A20** has a maximum gain of **16.3 dBd** at its main lobe at 1900 MHz and 2100 MHz. The **Commscope LNX-6515DS-VTM** has a maximum gain of **14.6 dBd** at its main lobe at 700 MHz. 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.
- 10) The antenna mounting height centerline of the proposed antennas is **100 feet** above ground level (AGL).
- 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 12) All calculations were done with respect to uncontrolled / general public threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APX16DWV-16DWVS-E-A20	Make / Model:	RFS APX16DWV-16DWVS-E-A20	Make / Model:	RFS APX16DWV-16DWVS-E-A20
Gain:	16.3 dBd	Gain:	16.3 dBd	Gain:	16.3 dBd
Height (AGL):	100	Height (AGL):	100	Height (AGL):	100
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	8	Channel Count	8	Channel Count	8
Total TX Power(W):	300	Total TX Power(W):	300	Total TX Power(W):	300
ERP (W):	7,672.46	ERP (W):	7,672.46	ERP (W):	7,672.46
Antenna A1 MPE%	3.12	Antenna B1 MPE%	3.12	Antenna C1 MPE%	3.12
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	100	Height (AGL):	100	Height (AGL):	100
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power(W):	30	Total TX Power(W):	30	Total TX Power(W):	30
ERP (W):	650.31	ERP (W):	650.31	ERP (W):	650.31
Antenna A2 MPE%	0.57	Antenna B2 MPE%	0.57	Antenna C2 MPE%	0.57

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Per Sector Max)	3.69 %
No Additional Carriers	NA
Site Total MPE %:	3.69 %

T-Mobile Sector A Total:	3.69 %
T-Mobile Sector B Total:	3.69 %
T-Mobile Sector C Total:	3.69 %
Site Total:	3.69 %

T-Mobile_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
T-Mobile AWS - 2100 MHz LTE	2	1,524.58	100	12.41	AWS - 2100 MHz	1000	1.24%
T-Mobile AWS - 2100 MHz UMTS	2	762.29	100	6.20	AWS - 2100 MHz	1000	0.62%
T-Mobile PCS - 1950 MHz UMTS	2	774.68	100	6.30	PCS - 1950 MHz	1000	0.63%
T-Mobile PCS - 1950 MHz GSM	2	774.68	100	6.30	PCS - 1950 MHz	1000	0.63%
T-Mobile 700 MHz LTE	1	650.31	100	2.65	700 MHz	467	0.57%
						Total:	3.69%

Summary

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

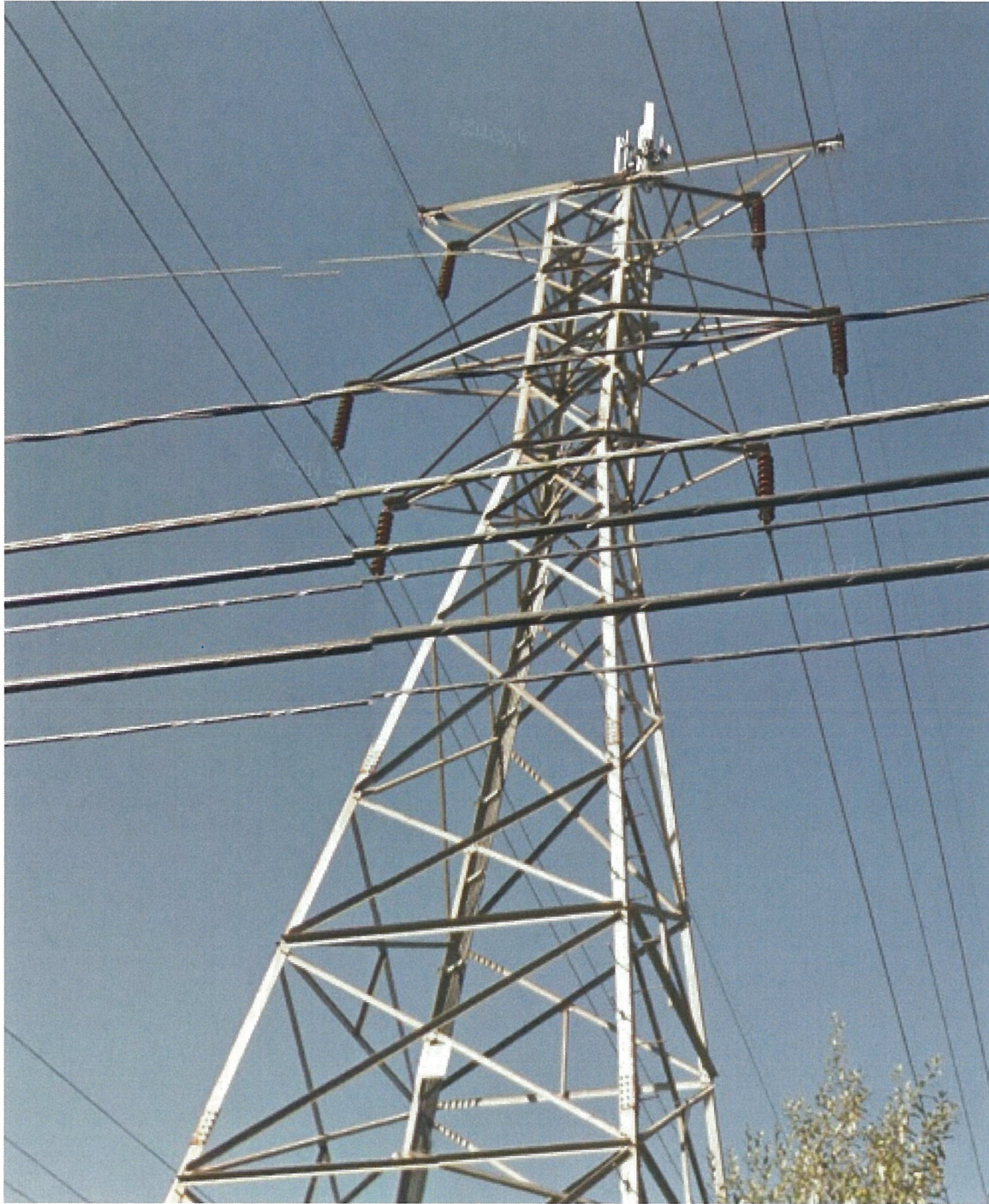
The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	3.69 %
Sector B:	3.69 %
Sector C:	3.69 %
T-Mobile Per Sector Maximum:	3.69 %
Site Total:	3.69 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **3.69%** of the allowable FCC established general public 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.

ATTACHMENT G



ATTACHMENT H



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Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > TOWAIR

[FCC Site Map](#)

TOWAIR Determination Results

[HELP](#)

[New Search](#) [Printable Page](#)

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. The structure meets the 6.10-meter (20-foot) Rule criteria.

Your Specifications

NAD83 Coordinates

Latitude 41-36-30.4 north
Longitude 072-51-46.1 west

Measurements (Meters)

Overall Structure Height (AGL) 32
Support Structure Height (AGL) 32
Site Elevation (AMSL) 68.6

Structure Type

UPOLE - Utility Pole/Tower used to provide service (Electric, Telephone, etc)

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

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ASR Online Systems [TOWAIR](#) - [CORES](#) - [ASR Online Filing](#) - [Application Search](#) - [Registration Search](#)
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Federal Communications Commission

Phone: 1-877-480-3201

ATTACHMENT I

**Natural Diversity Data Base
Areas
SOUTHINGTON, CT**
June 2016

-  State and Federal Listed Species & Significant Natural Communities
-  Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDOB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDOB along with the required maps and information. More detailed instructions are provided with the request form on our website.

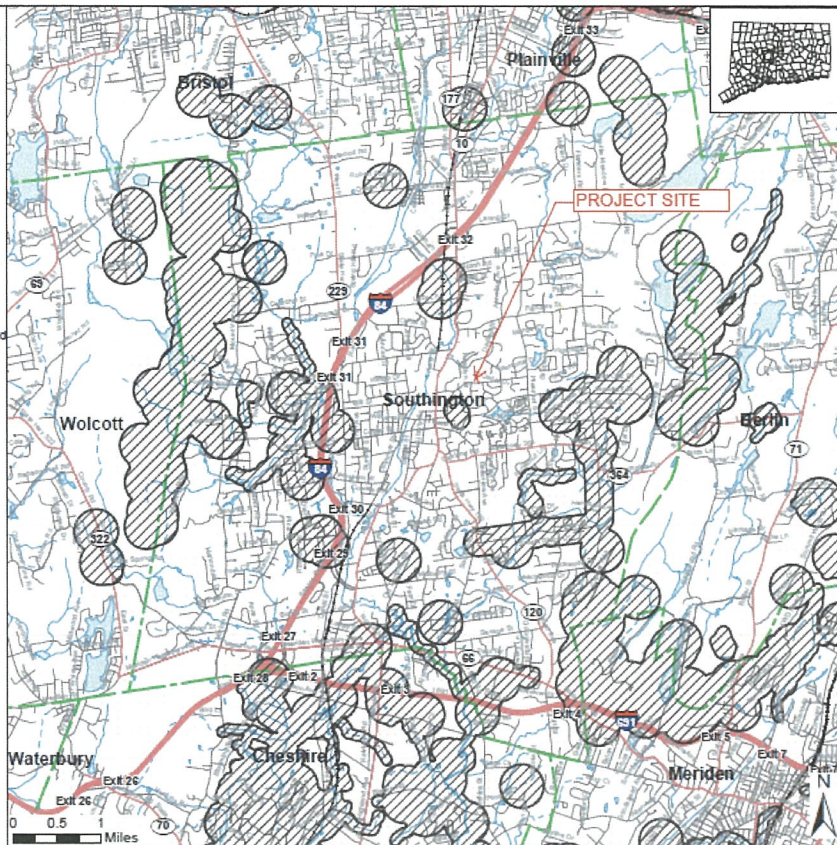
www.ct.gov/deep/inddbrequest

Use the CTECO Interactive Map Viewers at www.cteco.uconn.edu to more precisely search for and locate a site and to view aerial imagery with NDOB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011



Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division



ATTACHMENT J

August 11, 2016

VIA USPS CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

<<Name_and_Address>>

RE: T-Mobile Northeast LLC ("T-Mobile")
Proposed Replacement Facility on Eversource Tower
Hobart Street, Southington, CT

Dear Sir or Madam

We are writing to you on behalf of our client T-Mobile Northeast LLC ("T-Mobile") with respect to the above referenced matter and our client's intent to file a petition with the State of Connecticut Siting Council for approval of a proposed wireless communications tower facility (the "Facility") within the Town of Southington.

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 August 17, 2016, the date that the petition is expected to be on file.

Sincerely,

Eric Dahl
Enclosure

NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition to be file with the Connecticut Siting Council (“Siting Council” on or after August 17, 2016 by T-Mobile Northeast LLC (“T-Mobile”) the (“Petitioner”). T-Mobile seeks a declaratory ruling that replacement of an existing wireless facility does not have significant adverse environmental effects that might otherwise require a certificate of environmental compatibility and public need (“Certificate”).

T-Mobile currently maintains an operational facility on an existing electrical transmission tower #1814 off of Hobart Street in Southington. Eversource recently received approval to replace this and several other transmission towers from Forestville Junction in Southington to Lake Avenue Junction in Bristol as part of a necessary upgrade project (Siting Council Petition 1201). Accordingly, T-Mobile must permanently relocate from existing transmission structure #1814 to the newly approved tower. The new transmission tower structure #1814 will be immediately adjacent to the site of the current transmission tower off of Hobart Street in Southington, Connecticut (the “Relocation Facility”).

If feasible, T-Mobile will coordinate with Eversource to construct the Relocation Facility at the same time Eversource is replacing the tower and during the necessary transmission line outage.

The Petition will provide details of the Relocation Facility and explain why it represents no significant adverse environmental effects. The location, height and other features of the facility are subject to review and potential change under provisions of the Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after August 17, 2016 at the following:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Town of Southington
Town Clerk
75 Main Street
Southington, CT 06489

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Eric Dahl
Vertical Development LLC
20 Commercial Street
Branford, CT 06405
(860) 227-1975

CERTIFICATION OF SERVICE

I hereby certify that on the 12th of August 2016, a copy of the foregoing letter and notice were mailed by certified mail, return receipt requested to each of the abutting property owners on the accompanying list.



Date 8/16/16

Eric Dahl
Vertical Development LLC
20 Commercial Street
Branford, CT 06405

Agent for T-Mobile Northeast LLC

Addressee	Mailing Address	City	State	Zip
Bonnie & Tony Peters	22 Coles Road	Cromwell	CT	06416
Donna C & Paul R Michlin	172 Old Farm Road	Southington	CT	06489
Erika N & Daniel E Marcoux	114 Reussner Road	Southington	CT	06489
Sarah H Mitoraj & Chris Weimann	165 Old Farm Road	Southington	CT	06489
Bonnie G & Frederick W Lasky	437 Hobart Street	Southington	CT	06489
Paula Warner	457 Hobart Street	Southington	CT	06489
Connecicut Light & Power Co.	PO Box 270	Hartford	CT	06141
Barbara Ann & John Francis Hayes	370 Woodruff Street	Southington	CT	06489
Monica Geary	115 Reussner Road	Southington	CT	06489